

Addendum No. 1 Technical Memorandum Remedial Design Sampling Activities

Ace Services Colby, Kansas

December 21, 2000

Prepared for: USEPA Region VII

176:

Prepared by: Black & Veatch Special Projects Corp.

EPA Contract No.: 68-W5-0004 EPA Work Assignment Number: 039-RDRD-07GE BVSPC Project No.: 46118



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# **1.0 Introduction**

The U.S. Environmental Protection Agency (USEPA) has initiated remedial design (RD) efforts for groundwater contamination at the Ace Services site near Colby, Kansas. The RD process is the methodology that the Superfund program has established for remediating risks posed by uncontrolled hazardous waste sites. Documents detailing the methodology for preliminary RD activities at the Ace Services site consist of a work plan (WP) (BVSPC, 1999a and 1999f), a field sampling plan (FSP) (BVSPC, 1999b and 2000a), a site management plan (SMP) (BVSPC, 1999e), a quality assurance project plan (QAPP) (BVSPC, 1999c and 2000b), and a health and safety plan (HSP) (BVSPC, 1999d and 2000c).

This Addendum No. 1 to the RD sampling activities technical memorandum presents a description of field activities performed in July, August, and September 2000, as preliminary RD activities at the Ace Services site. It describes the following items:

- Installation and development of groundwater extraction and observation wells.
- Survey of newly installed extraction and observation wells.
- Analytical results of existing groundwater monitoring wells, recovery wells, water supply wells, and residential wells (September 2000).
- Description of the sampling methodologies for the various media.
- Procedures for managing derived wastes.
- Nature and extent of groundwater contamination.
- Pump test results of contaminated aquifer zones.
- Groundwater flow modeling results and extraction well field design.

The previous RD sampling activities technical memorandum (BVSPC, 2000d) presents a description of activities performed in October 1999 (Phase 1) and February 2000 (Phase 2) and should be referred to for supplemental information. Comments provided by EPA and KDHE were incorporated into the document and are included in Appendix J. The previous RD Sampling Activities Technical Memorandum describes the following items:

- Installation, development, and sampling of new groundwater wells.
- Analytical results of existing groundwater monitoring wells, recovery wells, water supply wells, and residential wells (October 1999 and February 2000).
- Descriptions of the sampling methodologies for the various media.
- Procedures for managing derived wastes.
- Evaluation of subsurface soils in historical lagoon area.
- Nature and extent of groundwater contamination.

• Survey of new monitoring wells.

#### **1.1 Site Location and History**

The Ace Services site is located near the east edge of Colby, Kansas, at 345 Convesse Street in Thomas County. The geographic coordinates for the site are approximately 100°02'10" West Longitude and 39° 23' 47" North Latitude. The site lies in the southeast quarter of Section 31, Township 7 South, Range 33 West. The facility is next to the Thomas County Mental Health Center and a hardware store. The Thomas County courthouse is approximately 2-1/2 blocks west of the site. The surrounding property is primarily light industrial and commercial, although there are some residential properties within 2 blocks of the site. A railroad right-of-way, aligned north-south, is approximately 1 block west of the site.

Northwest Manufacturing Company operated a chromium plating facility at the site from 1954 to 1969, when Ace Services was formed and began operating an electroplating facility. Ace Services operated the facility until 1989 when it forfeited its corporate status and abandoned the facility.

# 1.2 Purpose and Scope

The purpose and scope of this report is to describe the results of the preliminary RD investigation activities and describe revised proposed activities based on the results.

# 2.0 Investigation Objectives

The objective of the preliminary RD sampling efforts was to complete characterization of the chromium groundwater plume and complete characterization of aquifer characteristics. The data acquired during the preliminary RD activities will be used for design of groundwater remediation systems. The scope of the preliminary RD activities included:

- Installing and sampling new monitoring wells.
- Sampling existing monitoring wells.
- Sampling existing recovery and water supply wells.
- Sampling residential wells.
- Installing groundwater extraction and observation wells.
- Evaluation of subsurface soils in historical lagoon area.
- Survey of newly installed groundwater monitoring wells.
- Performing pumping tests of contaminated aquifer zones and measuring groundwater levels.
- Collecting subsurface soil samples for geotechnical evaluation.
- Performing a ground survey to develop a base map for design drawings.

The objectives identified above have been completed at the time of this memorandum except for the objectives listed below:

- Installing and sampling monitoring wells.
- Collecting subsurface soil samples for geotechnical evaluation.
- Performing a ground survey to develop a base map for design drawings.

Two additional groundwater monitoring well nests consisting of shallow and intermediate depth wells are to be installed south of the railroad tracks near monitoring well nests MW-11 and MW-12. Final locations of the wells will be controlled by property access restrictions and technical adequacy.

Additional subsurface soil samples may need to be collected and evaluated for geotechnical properties. The existing onsite machine shop is to be used to house the treatment system, therefore, a separate building will not be constructed. However, geotechnical information concerning the site may be needed for other structures.

The ground survey for the base map will be performed after property access has been granted by all required property owners. The base map will be provided under separate cover.

# 3.0 Investigation Activities

Field investigation activities for the preliminary RD efforts are discussed in this section. The following subtasks are discussed:

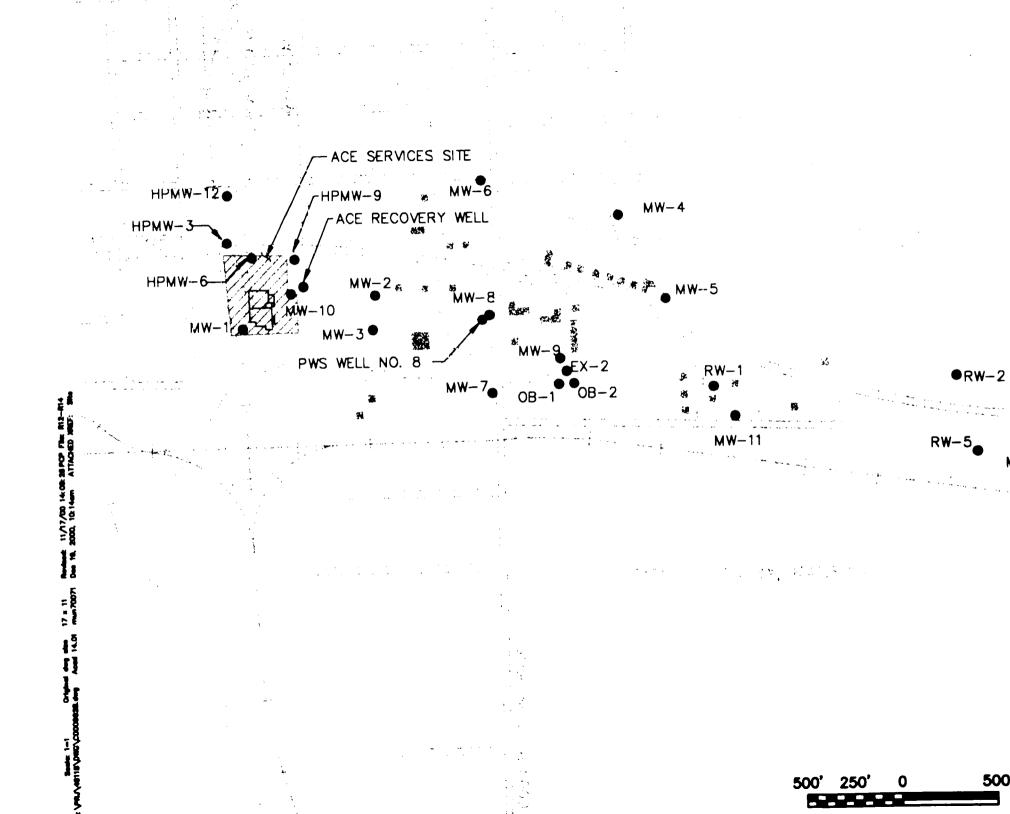
- Well Installation.
- Groundwater Sampling Locations and Analyses.
- Groundwater Sampling Procedures.
- Decontamination Procedures.
- Treatability Study Groundwater Sampling.
- Aquifer Pump Test.
- Numerical Computer Modeling of Groundwater Flow.

A site map illustrating the locations of all wells is presented as Figure 3-1. Final well locations were agreed to by EPA, KDHE, and the City of Colby.

The RD investigation activities discussed in this memorandum were conducted in July, August, and September 2000. Well nests EX-2, OB-1, and OB-2 were installed and developed during July 10, 2000 to July 19, 2000. Pump tests for the shallow, intermediate, and deep aquifer zones were conducted from July 31, 2000 to August 10, 2000. Groundwater sampling activities were conducted from September 18, 2000 to September 22, 2000.

#### 3.1 Well Installation

The groundwater well construction details are described in this section. The drilling and well installation was conducted by Woofter Pump and Well, Inc., of Hoxie, Kansas, a drilling subcontractor licensed in the State of Kansas. The wells installed as part of the Phase 2 remedial design sampling activities are listed in Table 3-1. At all times during the progress of the work, precautions were used to prevent tampering with the well or the entrance of foreign material into the well. Runoff was prevented from entering the well during construction. The completed wells have a sanitary seal to prevent material from entering the wells.



# Table 3-1 Wells Installed as part of the Phase 3 Remedial Design Sampling Activities Ace Services Site Remedial Design

<u>Well Number</u> OB-1-S OB-1-I OB-2-S OB-2-S OB-2-I OB-2-D EX-2-S EX-2-I EX-2-D Note: EX =

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Note: EX = Extraction Well OB = Observation Well S = Shallow I = Intermediate D = Deep

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#### 3.1.1 Observation Wells

Observation wells installed for the preliminary RD efforts are listed in Table 3-1. The observation wells were constructed using 4 inch diameter, polyvinyl chloride (PVC) riser pipe and screen. The riser pipe was Schedule 40 PVC. The well screens were 20-foot-long, Schedule 40 PVC with 0.020-inch slots.

Observation wells were installed in a nested fashion and consist of three wells at various depths to respectively evaluate shallow (110 to 130 feet), intermediate (172 to 195 foot) and deep (215 to 235 feet) aquifer zones. The water table ranged in depth from approximately 108 to 113 feet below ground surface (bgs) and impermeable shale bedrock (Pierre Shale Formation) was encountered at approximately 235 feet bgs.

A test hole for each well nest was drilled from the ground surface to bedrock and logged by the onsite geologist. The lithologic information was used to select the specific screen depth for each water bearing zone and monitoring well. Screen lengths for the wells were field determined and each well was installed within the selected water bearing zone at each well nest location.

Wells within the well nest were installed so that the shallow well is upgradient of the intermediate well and the intermediate well is upgradient of the deep well. Individual wells were installed approximately 15 feet apart.

The annular space around well screens was backfilled with a silica sand filter pack that conformed to screen gradation analysis requirements of not less than 95 percent of the sand passing US Standard Sieve No. 10 and not more than 5 percent passing US Standard Sieve No. 20. The filter pack extended from the bottom of the borehole to a minimum of 3 feet above the top of the screen. The annular space above the filter pack was backfilled with a minimum of 5 feet of bentonite chips. The annular space above the bentonite chips to the surface was backfilled with cement/bentonite grout tremied into place. A locking above ground or, where required, flush mount cover was installed to secure the well head.

#### 3.1.2 Extraction Wells

Extraction wells installed for the preliminary RD efforts are listed in Table 3-1. Extraction well EX-2-S was constructed using 6 inch diameter PVC riser pipe and screen. Extraction wells EX-2-I and EX-2-D were constructed using 8 inch diameter PVC riser pipe and screen. The riser pipe was Schedule 40 PVC. The well screen was constructed of Schedule 40 PVC with 0.032-inch slots.

Extraction wells were installed in a nested fashion and consist of a maximum of three wells at various depths to respectively extract contaminated groundwater at shallow (100 to 130 feet), intermediate (145 to 190 foot) and deep (195 to 235 feet) aquifer zones. Results from the plume characterization study were used to determine which aquifer zones are contaminated.

A test hole for the well nest was drilled first and logged by the onsite geologist. The boring log information was used to select the specific screen depth for each extraction well. Screen length for the wells was field determined and installed within the selected water bearing zone at each extraction well location.

Wells within the well nest were installed with the shallow well upgradient of the intermediate well and the intermediate well, upgradient of the deep well. Individual wells were installed approximately 15 feet apart. A detailed location map for observation well nests OB-1 and OB-2 and extraction well nest EX-2 is presented in Figure 3-2.

The annular space around the screen was backfilled with No. 1 Fine Washed Silica Sand filter pack. The filter pack extended from the bottom of the borehole to a minimum of 3 feet above the top of the screen. The annular space above the filter pack was backfilled with a minimum of 5 feet of bentonite chips. Remaining annular space about the bentonite seal was backfilled to the ground surface with bentonite grout. A locking flush mount cover was installed to secure the well head.

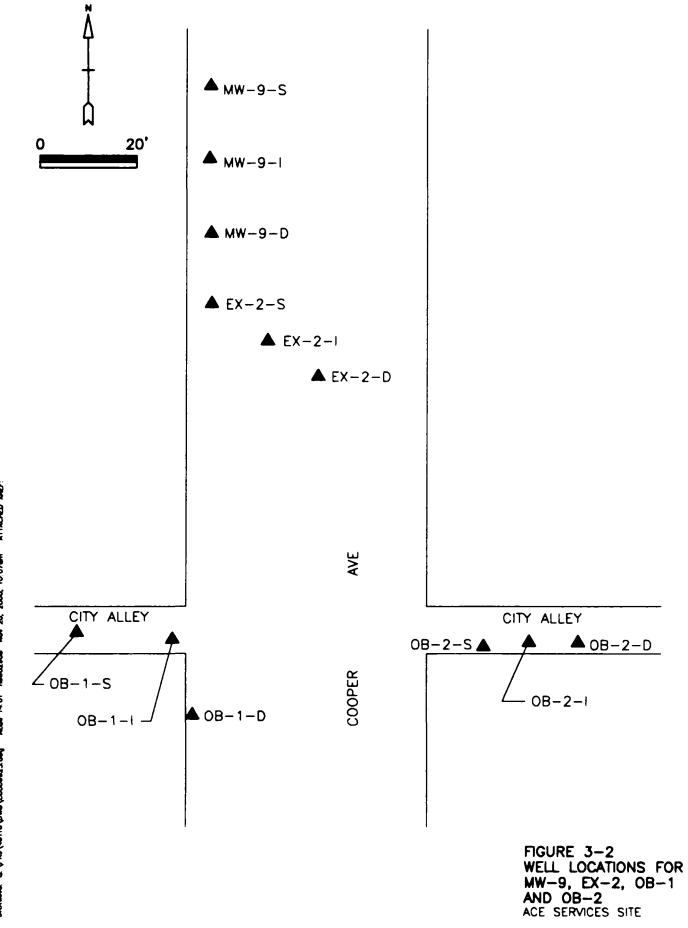
#### 3.1.3 Boring Logs and Well Construction Logs

Boring logs and well construction logs for wells listed in Table 3-1 are provided in Appendix A and Appendix B, respectively.

#### 3.1.4 Well Development

Well development consisted of surging and pumping the well using an electric submersible pump. The temperature, pH, specific conductivity, turbidity, dissolved oxygen (DO), and oxidation reduction potential (ORP) was monitored during pumping. Well development data was recorded in the field data sheets (Appendix C). Pumping continued until the field parameters stabilized and the water was clear and free of fines.

In all cases, care was taken not to collapse well screens during development activities, and at least half as much water as was introduced during drilling was removed during development and construction of each well. Development fluids (fluids recovered from the wells during development) were collected and managed as described in Section 4.0.





# 3.2 Sampling Locations and Analyses

The scope of the preliminary RD investigation included groundwater sampling and analysis for newly installed wells (Table 3-1) and currently existing wells (Table 3-2). The locations of the wells are shown on Figure 3-1. Groundwater samples were analyzed for total chromium (Cr). Samples from wells representative of extracted groundwater were analyzed for total chromium and hexavalent chromium. Groundwater samples were collected separately for treatability study purposes from wells EX-2-S, EX-2-I, EX-2-D, RW-6, and a composite sample from several monitoring wells. The treatability study samples were analyzed for several wet chemistry and metals parameters. Results of the samples will be discussed in the treatability study report. All samples were unfiltered.

Analytical parameters, analytical methods, sample container requirements, preservation methods, and holding times are summarized by sample media in Table 3-3. The total number of samples collected during the investigation including duplicates, blanks, and other quality control samples are summarized by sample media in Table 3-4.

# 3.3 Groundwater and Soil Sampling Procedures

The following general procedures were practiced when sampling:

- A clean pair of new, disposable surgical gloves were worn each time a sample was collected and equipment was deontaminated or replaced with new material between each sample.
- During the course of the field investigation, all samples were properly documented, as described in the FSP (BVSPC, 1999b), FSP Addendum (BVSPC, 2000a), QAPP (BVSPC, 1999c), and QAPP Addendum (BVSPC, 2000b). Documentation included completion of chain of custody (COC) forms, field logbook documentation, and sample labels for sample containers.
- Samples were immediately sealed, kept out of the sun, and kept cool by ice after collection.
- All samples for hexavalent chromium analysis were shipped "Next Day Air-Early A.M." by UPS for 7:30 A.M. delivery to meet the 24 hour holding time.

#### 3.3.1 Water Level Measurement

Water levels for existing wells were measured prior to any intrusive work. The water level, time of measurement, and date were recorded.

# Table 3-2Existing Wells Sampled as part of the Remedial Design (September 2000)Ace Services Site<br/>Remedial Design

| Well Number                                                                                                                                                                | Well Number                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| MW-1-S                                                                                                                                                                     | MW-9-D                                  |
| MW-1-I                                                                                                                                                                     | MW-10-P                                 |
| MW-1-D                                                                                                                                                                     | MW-11-S                                 |
| MW-2-S                                                                                                                                                                     | MW-11-I                                 |
| MW-2-1                                                                                                                                                                     | MW-11-D                                 |
| MW-2-D                                                                                                                                                                     | MW-12-S                                 |
| MW-3-D                                                                                                                                                                     | MW-12-1                                 |
| MW-4-S                                                                                                                                                                     | MW-12-D                                 |
| MW-4-I                                                                                                                                                                     | Ace Recovery Well-S (ACE-R-S)           |
| MW-4-D                                                                                                                                                                     | Ace Recovery Well-I (ACE-R-I)           |
| MW-5-S                                                                                                                                                                     | Ace Recovery Well-D (ACE-R-D)           |
| MW-5-I                                                                                                                                                                     | PWS #8                                  |
| MW-5-D                                                                                                                                                                     | RW-1                                    |
| MW-6-S                                                                                                                                                                     | RW-2                                    |
| MW-6-1                                                                                                                                                                     | RW-3                                    |
| MW-6-D                                                                                                                                                                     | RW-4                                    |
| MW-7-S                                                                                                                                                                     | RW-5                                    |
| MW-7-1                                                                                                                                                                     | RW-6                                    |
| MW-7-D                                                                                                                                                                     | RW-8                                    |
| MW-8-S                                                                                                                                                                     | RW-9                                    |
| MW-8-1                                                                                                                                                                     | HPMW-6-S                                |
| MW-8-D                                                                                                                                                                     | HPMW-9-S                                |
| MW-9-S                                                                                                                                                                     | Ion Exchange Treatability Study Samples |
| <br>MW-9-I                                                                                                                                                                 |                                         |
| Notes MW = Monitoring Well<br>PWS = Public Water Supply<br>RW = Residential Well<br>P = Perched<br>HPMW = Hi-Plains Coop Monitoring Wel<br>S = Shallow<br>L = Intermediate | <b>/</b>                                |

1 = Intermediate D = Deep

# Table 3-3 Analytical Parameters and Methods, Containers, Preservatives, and Holding Times Ace Services Site Remedial Design

|              | Method     |          |                           |                        | Holding Time |          |
|--------------|------------|----------|---------------------------|------------------------|--------------|----------|
| Parameter    | Extraction | Analysis | Container<br>Requirements | Preservative           | Extraction   | Analysi  |
| Water        |            |          |                           |                        |              |          |
| Cr. total    |            | 6010     | 120 ml Poly               | HNO <sub>3</sub> , 4°C | 6 months     | 6 month  |
| <u>Cr VI</u> |            | 7196A    | 120 ml Poly               | 4°C                    | 24 hours     | 24 hours |
| Soil         |            |          |                           |                        | r            |          |
| Cr, total    | 3050       | 6010     | 2 oz. glass jar           | 4°C                    | 6 months     | 6 month  |

# Table 3-4 Sample Summary Ace Services Site Remedial Design

| Parameter      | Number<br>of<br>Primary<br>Samples                 | Number<br>of<br>Duplicates              | Number<br>of<br>Rinsates | Number<br>of Matrix<br>Spikes <sup>1</sup> | Number of<br>Matrix Spike<br>Duplicates <sup>1</sup> | Total Number<br>of Samples            |  |  |
|----------------|----------------------------------------------------|-----------------------------------------|--------------------------|--------------------------------------------|------------------------------------------------------|---------------------------------------|--|--|
| <u>Water</u>   | Water                                              |                                         |                          |                                            |                                                      |                                       |  |  |
| Cr, total      | 54                                                 | 6                                       | 4                        | [3]                                        | [3]                                                  | 64                                    |  |  |
| Cr VI          | 11                                                 | 1                                       | 1                        | [1]                                        | [1]                                                  | 13                                    |  |  |
| Soil           |                                                    | • · · · · · · · · · · · · · · · · · · · |                          |                                            | • •••••••                                            | · · · · · · · · · · · · · · · · · · · |  |  |
| Cr. total      | 3                                                  | 0                                       | 0                        | 0                                          | 0                                                    | 3                                     |  |  |
| Note 1: MS/MSD | Note 1: MS/MSD samples are additional volume only. |                                         |                          |                                            |                                                      |                                       |  |  |

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#### 3.3.2 Well Purging/Development and Groundwater Sample Collection

Before sampling, the depth to water was measured and recorded. Using information from the well construction logs, the total volume of water in the well casing was determined. The subcontractor (Woofter Pump and Well, Inc., Hoxie, Kansas) purged the wells prior to collecting groundwater samples. The monitoring wells and the Ace Recovery Well were purged and sampled using a submersible pump and Public Water Supply Well No. 8 was sampled using its dedicated turbine pump. A water truck was used to store and transport the purge water so it could be discharged to the City of Colby's sanitary sewer system.

In addition to the collection of primary samples, quality assurance/quality control (QA/QC) samples such as equipment rinsate blanks, duplicate samples, and matrix spike (MS), and matrix spike duplicate (MSD) samples were collected.

Monitoring well purging/development data sheets were completed for each well that was developed or sampled and are provided in Appendix C.

**3.3.2.1** Existing Monitoring Well Purging and Sample Collection. Most of the existing monitoring wells were purged using a high capacity (~15 gpm) submersible pump.

The remaining existing monitoring wells and the three screened intervals of the Ace Recovery Well were micropurged. The wells were micropurged at a rate less than the recharge rate of the well. The water level in the well was monitored for drawdown during micropurging. Micropurging was performed at a rate so that minimal drawdown occurred. Micropurging was performed at approximately one liter per minute (0.26 gallons per minute). The wells were micropurged from the midpoint of the screened intervals.

Field parameters (temperature, pH, specific conductivity, ORP, turbidity, and DO) were measured and recorded during both purging processes. Measurements were recorded periodically until stabilization occurred at which time purging was complete and the sample collected.

#### 3.3.2.2 Public Supply Well No. 8 Purging and Sample Collection

The subcontractor (Woofter Pump and Well, Inc.) purged the well prior to collecting groundwater samples. The public water supply well was sampled using its dedicated turbine pump. Field parameters (temperature, pH, specific conductivity, ORP, DO, and turbidity) were measured and recorded during the purging process.

**3.3.2.3 Residential Well Purging and Sample Collection.** The residential wells sampled during the groundwater sampling activity are listed in Table 3-2. Addresses for the residential wells are provided on Table 3-5. The residential wells are equipped with dedicated pumps. The samples were collected from an outside tap prior to any water treatment system. Purging and sample collection procedure for the residential wells was as follows:

- (1) The tap was opened and allowed to flow prior to sample collection. The field parameters (temperature, pH, specific conductivity, ORP, turbidity, and DO) were measured periodically. Purging was considered complete when the field parameters stabilized.
- (2) Following the purging procedure, the flow from the tap was reduced for sample collection in order to minimize agitation and aeration.
- (3) The sampler donned a clean pair of surgical gloves.
- (4) At the end of the purging interval, the sample containers were filled directly from the tap.
- (5) Following sample collection, sample documentation (i.e., sample number, chain-ofcustody record) was completed and noted in the field logbook.
- (6) The samples were placed in a cooler on ice.

#### 3.3.3 Subsurface Soil Sampling

Soil samples were collected from drill cuttings for IDW characterization as discussed in Section 4.0. The samples were analyzed for total chromium.

#### 3.3.4 Equipment Rinsate Blanks

Rinsate blanks were used to measure the effectiveness of pump decontamination procedures. Equipment rinsate blanks were prepared from the submersible pumps after the pumps had been decontaminated. The rinsate blanks were identified with a sample identification number. The rinsate blank number, time, and date of collection was documented in the field logbook.

#### 3.3.5 Duplicate Samples

The purpose of duplicate samples is to assess laboratory QA/QC. Duplicate samples were collected in the field by alternately filling appropriate sample containers for the primary

# Table 3-5 Residential Well Sample Codes Ace Services Site Remedial Design

| Code | Residential Well Description |
|------|------------------------------|
| RW-1 | 175 Thompson                 |
| RW-2 | 1655 E. 4th                  |
| RW-3 | 1765 E. 4th                  |
| RW-4 | 1795 E. 4th                  |
| RW-5 | 1680 E. 4th                  |
| RW-6 | 1940 E. 4th                  |
| RW-7 | 2040 E. 4th                  |
| RW-8 | 1888 County Road 21          |
| RW-9 | 2580 E. 4th                  |

and duplicate samples. The primary sample and the duplicate samples were placed in identical containers, preserved in the same manner, and submitted for the same analyses. The duplicate groundwater samples were identified with a sample identification number. The sample location, number, and date and time of collection was documented in the field logbook.

#### 3.3.6 Matrix Spike/Matrix Spike Duplicates

The purpose of MS/MSD samples is to evaluate effects of the sample matrix on the accuracy of the analysis. MS/MSD samples were collected in the field by alternately filling appropriate sample containers for the primary, MS, and MSD sample from the discharge hose of the pump. The primary sample, the MS sample, and the MSD samples were placed in identical containers, preserved in the same manner, and submitted for the same analyses. The MS/MSD samples were identified with a sample identification number. The sample location, number, and date and time of collection was documented in the field logbook.

#### 3.4 Sample Numbering System

A sample numbering system was used to identify each sample submitted for chemical analysis. The purpose of the numbering system was to provide a tracking system for retrieval of information on each sample. The sample identification numbers allocated for all sampling efforts were used on sample labels, chain-of-custody records, and all other applicable documentation used during the sampling activity. A listing of all sample identification numbers was maintained in the field logbook by the field team representative.

Sample identification numbers consist of four components: a media code, a well code, the date, and the sample characteristic code. The following is an example of a completely numbered sample, with each component identified:

W-MW-1-S-091900-P.

where

MW = well type code (i.e., monitoring well),

1 = well number code

S = well interval code (shallow)

091900 = sample date code (month, day, and year sample was collected), and

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W = water

3-14

46118 126-03

P = sample characteristic code (i.e., primary).

The media codes consist of W for water or S for subsurface soil. The well type code identifies the well type: MW for monitoring well, PWS for public water supply, RW for residential well, ACE for Ace recovery well, EX for extraction wells, OB for observation wells, and HPMW for HI-Plains Coop monitoring wells. The well number code identifies the well number. The well interval code identifies the aquifer zone monitored: P for perched, S for shallow, I for intermediate, and D for deep. The sample date code identifies the data the sample was collected: 091900 is September 19, 2000. The sample characteristic code indicates whether the sample is a primary sample (P), an equipment rinsate blank (R), duplicate (D), a matrix spike (MS), or a matrix spike duplicate (MSD) sample.

# 3.5 Documentation

Documentation was a vital aspect of the site investigation. This section discusses pertinent documentation activities.

#### 3.5.1 Field Logbook

Bound field logbooks were maintained by the sampling team to provide a detailed record of significant events, observations, and measurements taken during the field investigation. The field log books are intended to provide sufficient data and observations to enable the field team to reconstruct events that occurred during the project. Copies of the field logbooks kept by field personnel are presented in Appendix D.

#### 3.5.2 Sample Labels

An adhesive sample label was placed on each sample container submitted for chemical analysis. The following information was included on each sample label:

- Site name.
- Sample number.
- Name of sampler.
- Sample collection date and time.
- Analysis requested and preservatives added.

#### 3.5.3 Chain-of-Custody Record

Chain-of-custody procedures were employed to maintain and document continuous sample possession. A sample was considered under a person's custody if it was in that

person's physical possession, within visual sight of that person after taking physical possession, secured by that person so that the sample could not be tampered with, or secured by that person in an area that was restricted from unauthorized personnel.

A chain-of-custody record was completed for each sample shipment. Standard laboratory chain-of-custody records were used. After completion of the chain-of-custody-record, one carbonless copy of the chain-of-custody record was retained by the field crew and the remaining copies and the original were enclosed in a sealable plastic bag and secured to the inside of the shipping container lid. A separate chain-of-custody record was completed for each shipping container. Shipping containers were secured, and custody seals were placed across the container openings. The chain-of-custody record was sealed inside the shipping container, and the custody seals remained intact; therefore, the commercial carrier was not required to sign the chain-of-custody record. Copies of the chain-of-custody records are included in Appendix E.

#### 3.5.4 Custody Seals

Custody seals were used to ensure the integrity of the samples when they remained unattended or when they were relinquished to the delivery service until they were opened by the laboratory. All samples were shipped in an insulated shipping container, and each shipping container was sealed with at least two custody seals. The seals were affixed to each shipping container so that it was necessary to break the seals to open the shipping container.

#### 3.5.5 Airbills

An airbill was completed for each sample shipment. Priority 7:30 a.m. overnight delivery was used for samples collected in the morning and late morning delivery was used for samples collected in the afternoon to achieve the analytical holding time (24 hours) for hexavalent chromium analysis. Copies of the completed airbills are included in Appendix F.

#### 3.6 Decontamination Procedures

Procedures for equipment decontamination were implemented to avoid cross-contamination of subsurface strata and samples of various media that are to be submitted for chemical analysis. Sampling equipment was thoroughly cleaned and decontaminated before initial use and between sample locations.

#### 3.6.1 Initial Decontamination

Initial decontamination of the drill rig, sampling equipment, and electric pump before any wells were purged and sampled included the following:

- (1) Steam clean with potable water.
- (2) Circulate and rinse pump with potable water.
- (3) Rinse pump with distilled water.

Initial decontamination of the split-spoon sampler included alconox wash followed by potable and distilled water rinses.

#### 3.6.2 Intermediate Decontamination

Intermediate decontamination of the sampling equipment was required between sampling attempts. The intermediate decontamination procedures for sampling equipment was the same as those outlined in the initial decontamination.

#### 3.6.3 Final Decontamination

Final decontamination was performed on all equipment used to drill, purge, or sample wells. The procedures used during initial decontamination were utilized during final contamination.

#### 3.7 Site Survey Data

A location survey was conducted by Zerr Engineering of Colby, Kansas, as part of the preliminary RD investigation. Items surveyed included newly installed monitoring wells. At monitoring well locations, top of casing (TOC) elevations were measured to the closest 0.01 foot using the notched reference point for monitoring wells. Ground elevations were measured to the closest 0.01 foot. Location coordinates were also determined for the wells and are referenced to the State Plane Coordinate System. Elevations are referenced to mean sea level (msl), specifically to the National Geodetic Vertical Datum of 1929. Survey data for the wells are presented in Appendix G.

A survey of the site will be performed after all wells are installed and the site area is defined. A site map will be developed from the survey data. The site map will include locations of the wells, utilities, cultural features, and topography which will be used as a base map for engineering drawings.

#### 3.8 Data Validation

Samples collected in October 1999 and February 2000 were sent to Analytical Management Laboratories, Inc. of Olathe, Kansas, for analyses. Once samples were received at the lab, the specified analyses were performed, and results in the form of raw laboratory data were generated. Data validation and evaluation was then performed on the raw laboratory data in accordance with FPA Contract Laboratory Program (CLP) National Functional Guidelines by Heartland Environmental Services, Inc. of St. Charles, Missouri.

Samples collected in September 2000 were sent to Southwest Laboratories of Oklahoma in Broken Arrow, Oklahoma. Once samples were received at the lab, the specified analyses were performed, and results in the form of raw laboratory data were generated. Data validation and evaluation was then performed on the raw laboratory data in accordance with EPA Contract Laboratory Program (CLP) National Functional Guidelines by Validata Chemical Services, Inc. of Lilburn, Georgia.

The objective of the data validation was to review analytical laboratory procedures and QC results to evaluate whether the data met project data quality objectives (DQOs) established in the site specific QAPP (BVSPC, 1999c and 2000b).

Results of the laboratory data assessment for the samples collected in October 1999 and February 2000 are presented in the *Data Validation Report* dated January 10, 2000 and April 20, 2000 (BVSPC, 2000e and 2000f) and the *PARCCs Report and Data Evaluation Technical Memorandum* dated June 28, 2000 (BVSPC, 2000g).

Results of the laboratory data assessment for the samples collected in September 2000 are presented in the *Data Validation Report* dated December 12, 2000 (BVSPC 2000h) and the *PARCCs Report and Data Evaluation Technical Memorandum* dated December 18, 2000 (BVSPC 2000i).

Results of the data validation and evaluation process have determined the data are defensible, were collected in accordance with the site specific QAPP and FSP, and are useable for the intended purposes.

# 3.9 Aquifer Pump Test

An objective of the preliminary RD efforts was to perform pump tests within the three aquifer zones. Hydrogeologic data for the pump tests were used to develop a computer flow model of groundwater flow of the site. The model results were used to estimate the number, location, and extraction rates necessary to achieve remedial action objectives.

Three pump tests were performed in July and August 2000, and evaluated in September 2000. Pump test procedures and results are discussed in the *Pump Test Results Ace Services Site Memorandum*, November 13, 2000, which is presented in Appendix H.

# 3.10 Groundwater Modeling

An objective of the preliminary RD efforts was to develop a numerical computer model of groundwater flow of the site. The model results were used to estimate the number, location, and extraction rates necessary to achieve remedial action objectives.

Numerical computer modeling efforts of groundwater flow of the site was performed in October and November 2000. Modeling procedures and results are discussed in the *Groundwater Modeling Activities Ace Services Site Memorandum*, December 14, 2000, which is presented in Appendix I.

# 4.0 Investigation Derived Waste

Investigation derived wastes (IDW) included decontamination fluids, groundwater removed from monitoring wells, drill cuttings, fluids, plastic sheeting, and personal protective equipment.

#### 4.1 Liquids

Purging fluids, development water, and decontamination solution and rinses were collected and stored in a water tank. The fluids were then transported and discharged into the City of Colby's sanitary sewer system.

# 4.2 Personal Protective Equipment

All personal protective equipment (PPE) such as surgical gloves, paper towels, plastic sheeting, etc., was double bagged and disposed of as solid waste.

# 4.3 Drill Cuttings

Drill cuttings were placed in containment structures for characterization prior to disposal. Care was taken to exclude or remove any free liquid. A composite drill-cuttings sample was collected from the cuttings of each well nest and analyzed for total chromium for hazardous waste determination purposes. Results of the soil cuttings analyses are summarized in Table 4-1.

Analytical results determined the cuttings to be non-hazardous (i.e., less than 100 mg/kg total chromium). Once results indicated the soils were non-hazardous, the soil cuttings were spread to the ground per agreement with KDHE Bureau of Waste Management-Solid Waste Section.

RAC VII Ace Services Site Addendum No. 1 - TM

# Table 4-1 IDW Analytical Results Ace Services Site Remedial Design

| Well Nest No. | Sample No.        | Total Cr (mg/kg) |  |
|---------------|-------------------|------------------|--|
| OB-1          | S-IDW-OB-1-071300 | 2.4              |  |
| OB-2          | S-IDW-OB-2-071400 | 3.7              |  |
| EX-2          | S-IDW-EX-2-071200 | 3.2              |  |

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#### 5.0 Remedial Design Investigation Results

This section presents, evaluates, and interprets data collected during the preliminary RD efforts performed from July 2000 to September 2000.

#### 5.1 Water Level Data

The Ogallala Formation is an unconfined aquifer in the Colby area. The Ogallala aquifer is the sole source of potable water for the City of Colby.

Water level data for the monitoring wells are presented in Tables 5-1 and 5-2. The groundwater elevations were determined using location survey data and water level data collected during previous RI and RD investigation activities. The predominant groundwater flow direction for September 22, 2000, for the shallow, intermediate, and deep zones is illustrated on Figures 5-1 through 5-3 respectively. Depth to groundwater in the site area is approximately 100 to 120 feet bgs. Plots of the groundwater elevation data on site maps indicate the groundwater flow direction in the three zones in the site area is predominantly to the east-southeast. Detailed hydrogeologic data are presented in Appendices H and I.

## 5.2 Geochemical and Biochemical Groundwater Data

Basic water quality parameters were analyzed or measured on groundwater samples to evaluate the geochemical and biochemical quality of the groundwater. The geochemical and biochemical data will be used in the design of the groundwater treatment process. Results of field parameters are presented in Table 5-3. Analytical results of samples collected specifically for design criteria will be discussed in the Treatability Study Report which will be prepared as part of the RD efforts.

## 5.3 Nature and Extent of Groundwater Contamination

The nature and extent of contamination in groundwater at the site was evaluated from 54 primary groundwater samples. A list of the wells sampled and the analytical results are presented in Table 5-3. Results for the duplicate samples are also included.

#### Table 5-1 Groundwater Elevation Data September 18-22, 2000 Ace Services Site Remedial Design

| Well      | Top of Casing Elevation<br>(ft) | Depth to Water from Top<br>of Casing (ft) | Groundwater Elevation<br>(ft MSL) |  |  |
|-----------|---------------------------------|-------------------------------------------|-----------------------------------|--|--|
| MW-1-S    | 3140 53                         | 107 00                                    | 3033 53                           |  |  |
| MW-2-S    | 3134 99                         | 102 49                                    | 3032 5                            |  |  |
| MW-4-S    | 3126 62                         | 96 02                                     | 3030 6                            |  |  |
| MW-5-S    | 3130 57                         | 100 59                                    | 3029 98                           |  |  |
| MW-6-S    | 3136 55                         | 104 73                                    | 3031 82                           |  |  |
| MW-7-S    | 3147 87                         | 116 85                                    | 3031 02                           |  |  |
| MW-8-S    | 3139 57                         | 108 28                                    | 3031 29                           |  |  |
| MW-9-S    | 3142 47                         | 111 98                                    | 3030 49                           |  |  |
| MW-11-S   | 3148 20                         | 119 66                                    | 3028 54                           |  |  |
| MW-12-S   | 3168 21                         | 143 07                                    | 3025 14                           |  |  |
| HPMW-3-S  | 3138 65                         | 105 01                                    | 3033 64                           |  |  |
| HPMW-6-S  | 3139 23                         | 105 41                                    | 3033 82                           |  |  |
| HPMW-9-S  | 3136 61                         | 103 37                                    | 3033 24                           |  |  |
| HPMW-12-S | 3136 03                         | 102 41                                    | 3033 62                           |  |  |
| OB-1-S    | 3142 71                         | 112 08                                    | 3030 63                           |  |  |
| OB-2-S    | 3139 59                         | 109 30                                    | 3030 29                           |  |  |
| EX-2-S    | 3142 13                         | 111 67                                    | 3030 46                           |  |  |
| MW-1-I    | 3140 56                         | 107 07                                    | 3033 49                           |  |  |
| MW-2-I    | 3134 90                         | 102 80                                    | 3032 1                            |  |  |
| MW-4-I    | 3126 98                         | 96 50                                     | 3030 48                           |  |  |
| MW-5-f    | 3130 44                         | 100 56                                    | 3029 88                           |  |  |
| MW-6-I    | . 3136 64                       | 105 00                                    | 3031 64                           |  |  |
| MW-7-1    | 3147 70                         | 116 65                                    | 3031 05                           |  |  |
| MW-8-1    | 3139 00                         | 107 75                                    | 3031 25                           |  |  |
| MW-9-I    | 3142 35                         | 111 79                                    | 3030 56                           |  |  |
| MW-11-I   | 3148 60                         | 120 05                                    | 3028 55                           |  |  |
| MW-12-I   | 3168 29                         | 143 42                                    | 3024 87                           |  |  |
| OB-1-1    | 3142 31                         | 112 17                                    | 3030 14                           |  |  |
| OB-2-I    | 3138 63                         | 108 15                                    | 3030 48                           |  |  |
| EX-2-I    | 3141 30                         | 110 89                                    | 3030 41                           |  |  |
| MW-1-D    | 3140 10                         | 106 56                                    | 3033 54                           |  |  |
| MW-2-D    | 3136 56                         | 105 31                                    | 3031 25                           |  |  |
| MW-3-D    | 3137 00                         | 104 91                                    | 3032 09                           |  |  |
| MW-4-D    | 3127 18                         | 98 68                                     | 3028 5                            |  |  |
| MW-5-D    | 3131 07                         | 103 20                                    | 3027 87                           |  |  |
| MW-6-D    | 3136 83                         | 106 17                                    | 3030 66                           |  |  |
| MW-7-D    | 3147 49                         | 117 71                                    | 3029 78                           |  |  |
| MW-8-D    | 3138 66                         | 107 76                                    | 3030 9                            |  |  |
| MW-9-D    | 3142 13                         | 113 32                                    | 3028 81                           |  |  |
| MW-11-D   | 3149 08                         | 122 37                                    | 3026 71                           |  |  |
| MW-12-D   | 3168 10                         | 144 87                                    | 3023 23                           |  |  |
| OB-1-D    | 3141 98                         | 113 22                                    | 3028 76                           |  |  |
| OB-2-D    | 3138 11                         | 109 56                                    | 3028 55                           |  |  |
| EX-2-D    | 3140 50                         | 111 54                                    | 3028 <del>9</del> 6               |  |  |
| MW-10-P   | 3123 37                         | dry                                       | dry                               |  |  |

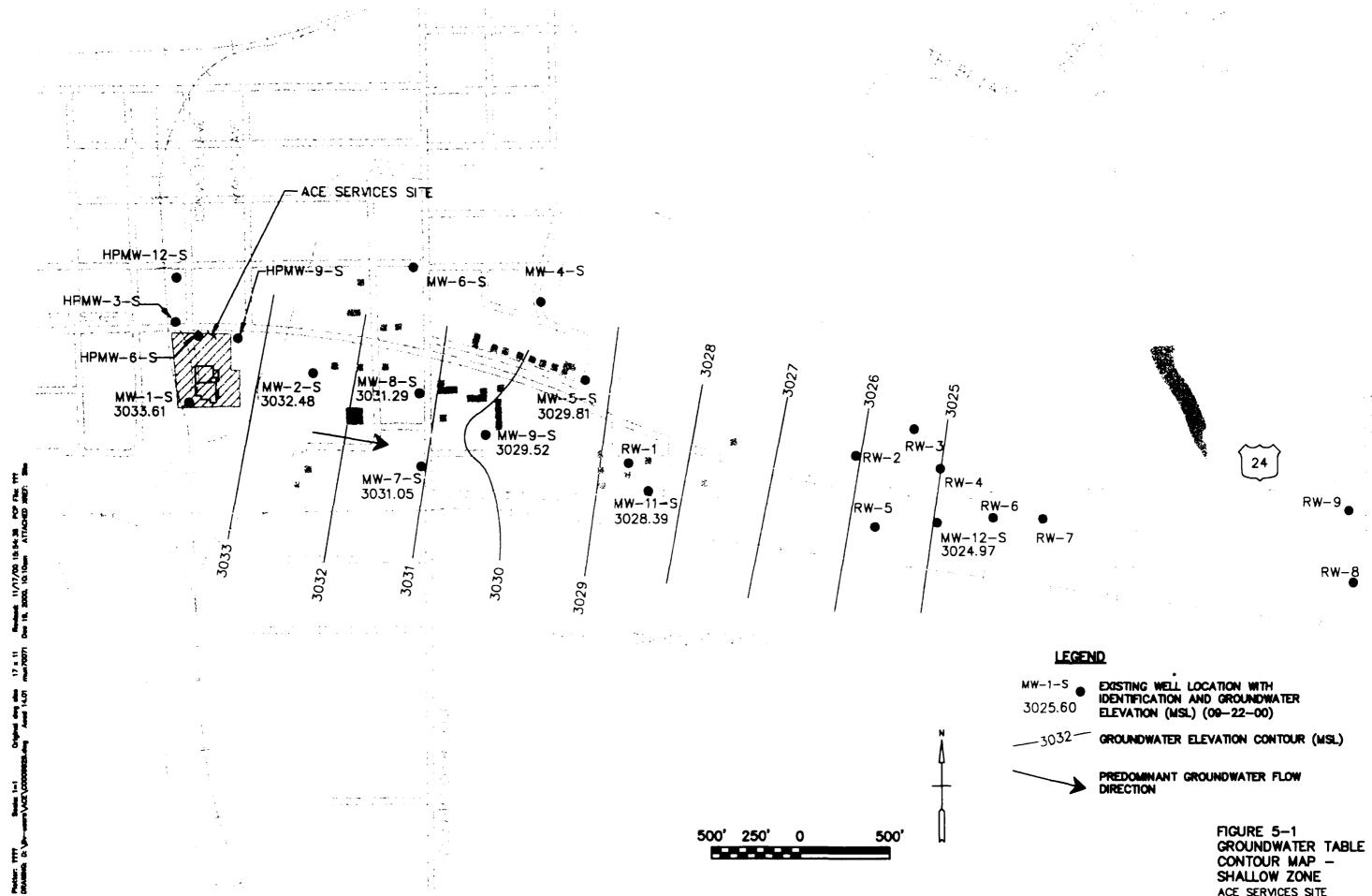
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# Table 5-2 Groundwater Elevation Data September 22, 2000 Ace Services Site Remedial Design

| Well      | Top of Casing Elevation<br>(ft) | Depth to Water from Top<br>of Casing (ft) | Groundwater Elevation<br>(ft MSL) |  |  |  |
|-----------|---------------------------------|-------------------------------------------|-----------------------------------|--|--|--|
| MW-1-S    | 3140.53                         | 106.92                                    | 3033 61                           |  |  |  |
| MW-2-S    | 3134.99                         | 102 51                                    | 3032.48                           |  |  |  |
| MW-4-S    | 3126.62                         | NA                                        | NA                                |  |  |  |
| MW-5-S    | 3130.57                         | 100.76                                    | 3029.81                           |  |  |  |
| MW-6-S    | 3136.55                         | NA                                        | NA                                |  |  |  |
| MW-7-S    | 3147.87                         | 116 82                                    | 3031 05                           |  |  |  |
| MW-8-S    | 3139.57                         | 108 28                                    | 3031 29                           |  |  |  |
| MW-9-S    | 3142.47                         | 112 95                                    | 3029 52                           |  |  |  |
| MW-11-S   | 3148.20                         | 119 81                                    | 3028 39                           |  |  |  |
| MW-12-S   | 3168.21                         | 143.24                                    | 3024 97                           |  |  |  |
| HPMW-3-S  | 3138.65                         | NA                                        | NA                                |  |  |  |
| HPMW-6-S  | 3139 23                         | NA                                        | NA                                |  |  |  |
| HPMW-9-S  | 3136.61                         | NA                                        | NA                                |  |  |  |
| HPMW-12-S | 3136.03                         | NA                                        | NA                                |  |  |  |
|           |                                 |                                           |                                   |  |  |  |
| MW-1-I    | 3140.56                         | 3140.56 106.98                            |                                   |  |  |  |
| MW-2-I    | 3134.90                         | 102.78                                    | 3032 12                           |  |  |  |
| MW-4-I    | 3126.98                         | NA                                        | NA                                |  |  |  |
| MW-5-1    | 3130.44                         | 100.65                                    | 3029 79                           |  |  |  |
| MW-6-1    | 3136.64                         | NA                                        | NA                                |  |  |  |
| MW-7-1    | 3147.70                         | 116 66                                    | 3031.04                           |  |  |  |
| MVV-8-1   | 3139 00                         | 107 80                                    | 3031.2                            |  |  |  |
| MW-9-I    | 3142 35                         | 111.81                                    | 3030 54                           |  |  |  |
| MW-11-I   | 3148.60                         | 120 16                                    | 3028 44                           |  |  |  |
| MW-12-I   | 3168 29                         | 143 57                                    | 3024 72                           |  |  |  |
|           |                                 |                                           |                                   |  |  |  |
| MW-1-D    | . 3140.10                       | 106 49                                    | 3033.61                           |  |  |  |
| MW-2-D    | 3136.56                         | 104.99                                    | 3031.57                           |  |  |  |
| MW-3-D    | 3137.00                         | NA                                        | NA                                |  |  |  |
| MW-4-D    | 3127.18                         | NA                                        | NA                                |  |  |  |
| MW-5-D    | 3131.07                         | 103.28                                    | 3027.79                           |  |  |  |
| MW-6-D    | 3136.83                         | NA                                        | NA                                |  |  |  |
| MW-7-D    | 3147.49                         | 117 67                                    | 3029.82                           |  |  |  |
| MW-8-D    | 3138.66                         | 107 89                                    | 3030.77                           |  |  |  |
| MW-9-D    | 3142.13                         | 113 29                                    | 3028 84                           |  |  |  |
| MW-11-D   | 3149.08                         | 122 49                                    | 3026 59                           |  |  |  |
| MW-12-D   | 3168.10                         | 144.65                                    | 3023 45                           |  |  |  |
| MW-10-P   | 3123.37                         | NA                                        | NA                                |  |  |  |



| M₩-1-5 ● | EXISTING WELL LOCATION WITH                                  |
|----------|--------------------------------------------------------------|
| 3025.60  | IDENTIFICATION AND GROUNDWATER<br>ELEVATION (MSL) (09-22-00) |

ACE SERVICES SITE





R₩-9

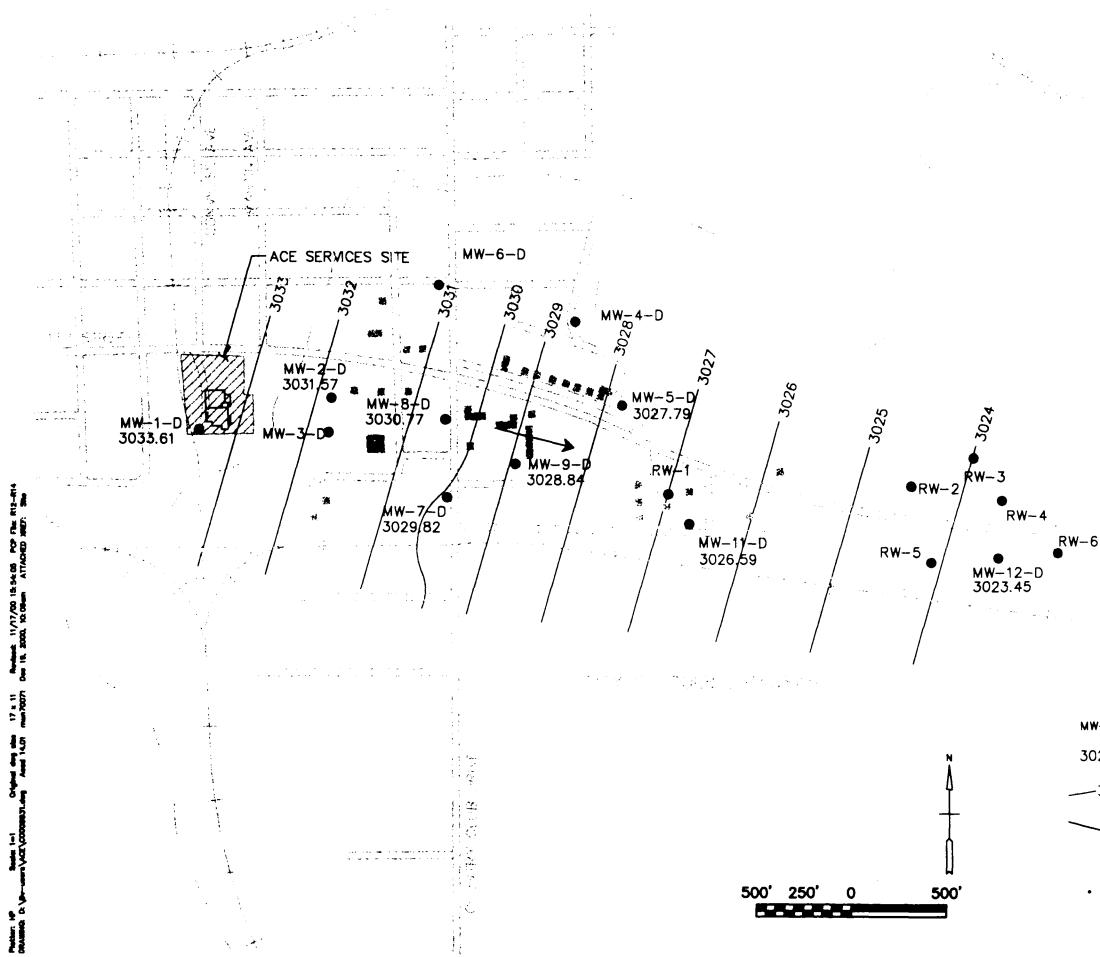
RW-8

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| ₩₩-1-1<br><b>3</b> 025.36 | EXISTING WELL LOCATION WITH<br>IDENTIFICATION AND GROUNDWATER<br>ELEVATION (MSL) (09-22-00) |
|---------------------------|---------------------------------------------------------------------------------------------|
|                           | ELEVATION(mSL)(OV-ZZ-OO)                                                                    |

PREDOMINANT GROUNDWATER FLOW DIRECTION

FIGURE 5-2 GROUNDWATER TABLE CONTOUR MAP -INTERMEDIATE ZONE ACE SERVICES SITE





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R₩-7

# LEGEND

| ₩-1-D<br>0025.36 | EXISTING WELL LOCATION WITH<br>IDENTIFICATION AND GROUNDWATER<br>ELEVATION (MSL) (09-22-00) |  |  |  |  |  |
|------------------|---------------------------------------------------------------------------------------------|--|--|--|--|--|
| _3032            | GROUNDWATER ELEVATION CONTOUR (MSL)                                                         |  |  |  |  |  |

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PREDOMINANT GROUNDWATER FLOW DIRECTION

FIGURE 5-3 GROUNDWATER TABLE CONTOUR MAP -DEEP ZONE ACE SERVICES SITE

RW-9

RW-8

# Table 5-3 Data Summary (September 2000) Ace Services Site Remedial Design

| Well        | Total Cr<br>(ug/L) | Hexavalent Cr<br>(ug/L) | pH<br>(units) | SC<br>(umhos/cm) | Temp.<br>(C) | DO<br>(mg/L) | Turbidity<br>(NTUs) | ORP<br>(mV) |
|-------------|--------------------|-------------------------|---------------|------------------|--------------|--------------|---------------------|-------------|
| Groundwater | <u> </u>           |                         |               |                  |              |              |                     |             |
| MW 1 S      | 14                 |                         | 68            | 1248             | 20           | 11           | 3                   | 77          |
| MW 2 S      | 118                |                         | 6.9           | 754              | 19           | 52           | 12                  | 83          |
| MW 4 S      | 22                 |                         | 65            | 1013             | 19           | 7.3          | 4                   | 105         |
| MW 5 S      | 3 U<br>(3 U)       |                         | 7.3           | 733              | 15           | 6.9          | 0                   | 219         |
| MW 6 S      | 66                 |                         | 7.4           | 544              | 20           | 7.6          | 17                  | 70          |
| MW 7 S      | 94                 |                         | 7.2           | 576              | 14           | 6.9          | 0                   | 222         |
| MW 8 S      | 10 U               |                         | 7 2           | 606              | 15           | 64           | 0                   | 212         |
| MW 9 S      | 259<br>(300)       |                         | 73            | 632              | 15           | 7 5          | 0                   | 214         |
| MW 11 S     | 162                | 170                     | 7 2           | 665              | 15           | 72           | 0                   | 220         |
| MW 12 S     | 92                 | 30                      | 7 1           | 700              | 20           | 70           | 7                   | 51          |
| EX 2 S      | 532                |                         | 73            | 649              | 15           | 69           | 0                   | 216         |
| OB 1 S      | 483                |                         | 7.1           | 916              | 20           | 56           | 20                  | 64          |
| OB 2 S      | 356                |                         | 7.2           | 940              | 18           | 66           | 6                   | 97          |
| HPMW 6 S    | 3 U                |                         | 7 2           | 940              | 18           | 66           | 6                   | 97          |
| HPMW 9 S    | 374                |                         | 68            | 950              | 16           | 0.8          | 0                   | 192         |
| ACE R S     | 358                |                         | 69            | 1015             | 17           | 07           | 12                  | 103         |
| <br>MVV 1 I | 6                  |                         | 67            | 1111             | 19           | 03           | 1                   | 63          |

## Table 5-3 Data Summary (September 2000) Ace Services Site Remedial Design

| Well    | Total Cr<br>(ug/L) | Hexavalent Cr<br>(ug/L) | pH<br>(units) | SC<br>(umhos/cm) | Temp.<br>(C) | DO<br>(mg/L) | Turbidity<br>(NTUs) | ORP<br>(mV) |
|---------|--------------------|-------------------------|---------------|------------------|--------------|--------------|---------------------|-------------|
| MW 2 I  | 1,780              | 1.800                   | 50            | 660              | 18           | 22           | 7                   | 157         |
| MW 4 I  | 35                 |                         | 66            | 853              | 19           | 61           | 3                   | 115         |
| MW 5 1  | 33                 | 50 U                    | 61<br>73      | 551<br>480       | 19<br>15     | 7.3          | 4                   | 113<br>226  |
| MW 6 I  | 64                 |                         | 73            | 754              | 15           | 58           | 8                   | 81          |
| MW 7 I  | 36                 | 50 U                    | 69            | 566              | 20           | 5.6          | 11                  | 61          |
| MW 8 1  | 1,020              |                         | 7 2           | 624              | 15           | 38           | 0                   | 211         |
| MW 9 1  | 4,170              |                         | 72            | 592              | 15           | 4 5          | 1                   | 214         |
| MW 11 I | 117<br>(114)       | 1 <u>20</u><br>(120)    | 7 2           | 629              | 15           | 6.6          | 0                   | 204         |
| MW 12 I | 182                | 180                     | 74            | 442              | 15           | 7 5          | 0                   | 192         |
| EX 2 I  | 2,360              | 3,000                   | 72            | 571              | 15           | 5.2          | 0                   | 209         |
| OB 1 I  | 197                |                         | 73            | 652              | 18           | 56           | 7                   | 54          |
| OB 2 I  | 630                |                         | 6.7           | 692              | 19           | 4.9          | 9                   | 117         |
| ACE R I | 151                |                         | 69            | 756              | 17           | 4 1          | 6                   | 199         |
|         | 22                 |                         | 74            | 428              | 40           | 7.0          |                     | 04          |
|         | 22                 |                         |               |                  | 18           | 79           | 3                   | 94          |
| MW 2 D  | 214                | 220                     | 73            | 450              | 16           | 71           | 0                   | 212         |
| MW 3 D  | 60                 |                         | 74            | 410              | 15           | 72           | 0                   | 210         |
| MW 4 D  | 44                 |                         | 7.0           | 446              | 18           | 80           | 8                   | 121         |
| MW 5 D  | 4                  |                         | 74            | 422              | 16           | 80           | 0                   | 199         |

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## Table 5-3 Data Summary (September 2000) Ace Services Site Remedial Design

|                   | · · · · · · · · · · · · · · · · · · · |                         |               | · · · · · · · · · · · · · · · · · · · |              | ¥            | · · · · ·           |             |
|-------------------|---------------------------------------|-------------------------|---------------|---------------------------------------|--------------|--------------|---------------------|-------------|
| Well              | Total Cr<br>(ug/L)                    | Hexavalent Cr<br>(ug/L) | pH<br>(units) | SC<br>(umhos/cm)                      | Temp.<br>(C) | DO<br>(mg/L) | Turbidity<br>(NTUs) | ORP<br>(mV) |
| MW 6 D            | 211                                   |                         | 74            | 551                                   | 17           | 67           | 5                   | 75          |
| MW 7 D            | 84<br>(80)                            |                         | 75            | 388                                   | 15           | 77           | 0                   | 227         |
| MW 8 D            | 1,630<br>(1610)                       |                         | 7.3           | 532                                   | 15           | 5 1          | 0                   | 232         |
| MW 9 D            | 2,040                                 |                         | 7.4           | 555                                   | 15           | 44           | 0                   | 217         |
| MW 11 D           | 114                                   |                         | 7.4           | 466                                   | 15           | 7.3          | 0                   | 213         |
| MW 12 D           | 7 U<br>(7 U)                          |                         | 7.6           | 373                                   | 15           | 7.8          | 0                   | 215         |
| EX 2 D            | 1,920                                 | 1,930                   | 7.1           | 559                                   | 15           | 4.9          | 0                   | 48          |
| OB 1 D            | 210                                   |                         | 7.4           | 437                                   | 16           | 70           | 0                   | 225         |
| OB 2 D            | 1,120                                 |                         | 7 1           | 657                                   | 19           | 56           | 13                  | 61          |
| ACE R D           | 61                                    |                         | 7.2           | 621                                   | 17           | 63           | 3                   | 87          |
| PWS 8             | 2,900                                 | 3,000                   | 7.5           | 587                                   | 15           | 69           | 4                   | 231         |
| Residential Wells |                                       |                         |               |                                       |              |              |                     |             |
| RW 1              | 40                                    |                         | 7.2           | 784                                   | 15           | 7.6          | 0                   | 273         |
| RW 2              | 3 U                                   |                         | 77            | 410                                   | 16           | 87           | 0                   | 212         |
| RW 3              | 3 U                                   |                         | 7.7           | 400                                   | 15           | 84           | 1                   | 383         |
| RW 4              | 7 U                                   |                         | 77            | 428                                   | 15           | 85           | 0                   | 274         |
| RW 5              | 9.0                                   |                         | 76            | 456                                   | 16           | 79           | 0                   | 248         |

### Table 5-3 Data Summary (September 2000) Ace Services Site Remedial Design

| V        | Vell  | Total Cr<br>(ug/L) | Hexavalent Cr<br>(ug/L) | pH<br>(units) | SC<br>(umhos/cm) | Temp.<br>(C) | DO<br>(mg/L) | Turbidity<br>(NTUs) | ORP<br>(mV) |
|----------|-------|--------------------|-------------------------|---------------|------------------|--------------|--------------|---------------------|-------------|
| RW       | 6     | 132                |                         | 75            | 484              | 15           | 90           | 1                   | 220         |
| RW       | 8     | 31 U               |                         | 74            | 537              | 16           | 84           | 1                   | 274         |
| RW       | 9     | 3 U                |                         | 77            |                  | 15           | 85           | 0                   | 262         |
| Rinsates | 5     |                    |                         |               |                  |              |              |                     |             |
| MW       | RI    | 3 U                |                         |               |                  |              |              |                     |             |
| MW       | 11 S  | 3 U                | 50 U                    |               |                  |              |              |                     |             |
| ОВ       | 1 D   | 3 U                |                         |               |                  |              |              |                     |             |
| OB       | 2 S   | 4                  |                         |               |                  |              |              |                     |             |
| IDW (m   | g/kg) |                    |                         |               |                  |              |              |                     |             |
| ОВ       | 1     | 2                  |                         |               |                  |              |              |                     |             |
| ОВ       | 2     | 4                  |                         |               |                  |              |              |                     |             |
| EX       | 2     | 3                  |                         |               |                  |              |              |                     | ····        |

Duplicate results in parentheses Re-sampling in brackets Cr = chromium ug/L = microgram per liter Cr VI = hexavalent chromium SC = specific conductance umhos/cm = micromhos per centimeter Temp = temperature C = Celsius DO = dissolved oxygen mg/L = milligram per liter NTUs = nephelometric turbidity units ORP = oxidation/reduction potential mV = millivolt MW = monitoring well P = perched S = shallow I = intermediate

1

D = deep ND = none

1

1

1

ND = nondetect (detection limit) U = qualified as nondetect J = estimated ARW = Ace recovery well PWS = Public Water Supply R = residential well mg/kg = milligram per killogram IDW = investigation derived waste

1

1

1

1

1

1

1

- [

Analytical results of the groundwater samples indicate the presence of chromium in groundwater. Comparing results of the total chromium and hexavalent chromium analyses indicates that most or all of the total chromium is in the hexavalent state. Hexavalent chromium (Cr (VI)) typically occurs in the dissolved state while trivalent chromium (Cr (III)) typically occurs as a precipitate or solid. The detected concentration of hexavalent chromium may exceed the total chromium concentration because the parameters were analyzed using two different methods. Data validation procedures have determined that results for both methods are within acceptable ranges of the methodologies.

The total chromium concentrations have been contoured on Figures 5-4 through 5-6 to illustrate the horizontal extent of total chromium in the aquifer in the shallow, intermediate, and deep zones. The vertical extent of hexavalent chromium in the groundwater is illustrated in Figure 5-7.

Historical results for total chromium are presented in Table 5-4.

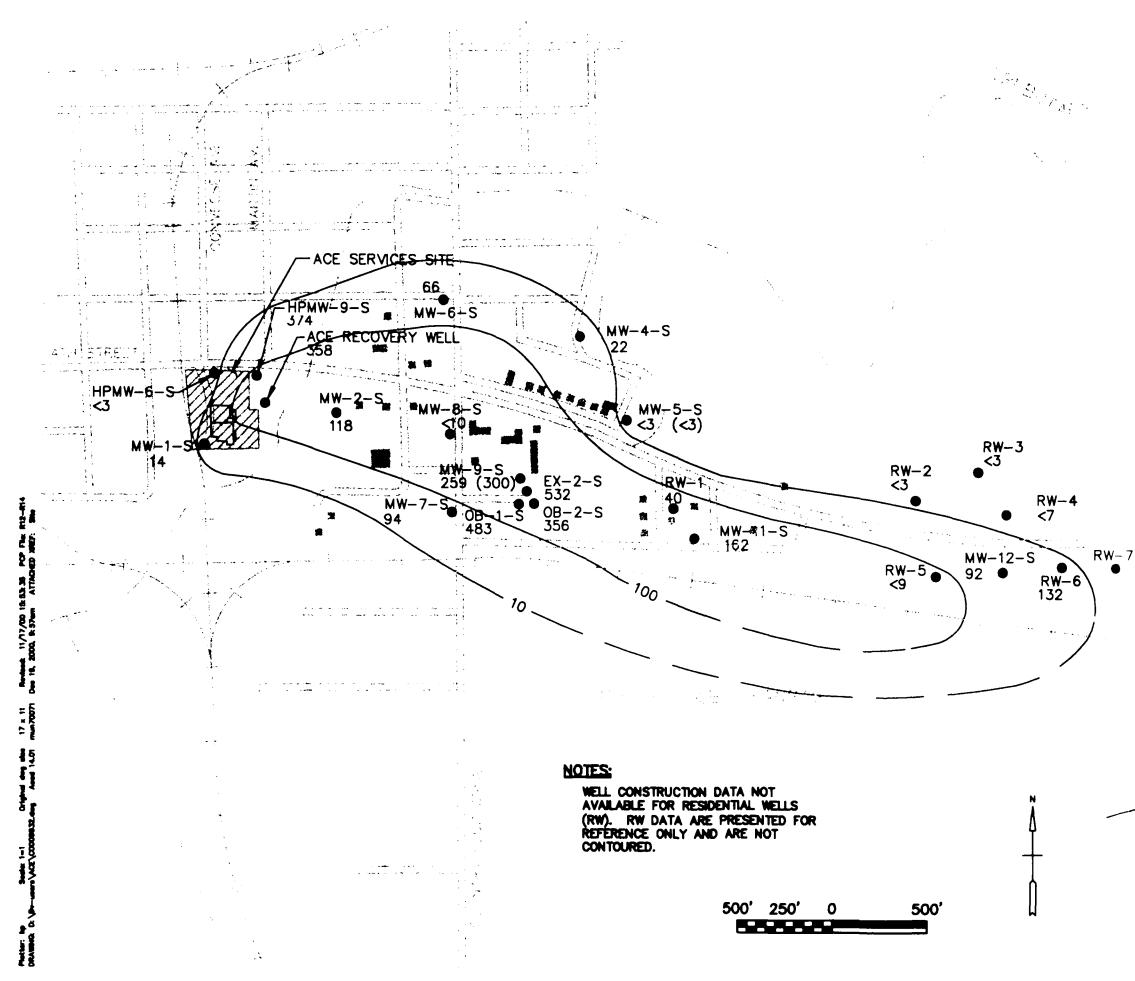
#### 5.4 Remaining Preliminary RD Activities

Efforts for completing preliminary RD objectives are described in the RD WP (BVSPC, 1999a; 1999f), FSP (BVSPC, 1999b; 2000a), and QAPP (BVSPC 1999c; 2000b). Initial efforts were planned using information and site data available at that time. Completion in October 1999 of Phase 1 of the preliminary RD activities indicated additional monitoring wells were needed to complete characterization of the nature and extent of contamination. Completion in February 2000 of Phase 2 activities also indicated additional monitoring wells were needed to complete objectives. Phase 3 of the preliminary RD activities was completed in November 2000, results of which are discussed in this report. However, two additional monitoring well nests remain to be installed pending property access.

Phase 3 investigation activities have provided additional and more complete information concerning site characteristics and the nature and extent of contamination. The remaining preliminary RD activities include:

- Installation of two monitoring well nests; and
- Geotechnical borings
- Survey of site area to develop a base map for engineering design drawings.

Two additional monitoring well nests are to be installed to confirm the downgradient extent of the chromium plume (MW-13 and MW-14). Each monitoring well nest will consist of a shallow and intermediate well. The well nests will be installed south of the railroad tracks. Proposed locations for the two well nests are illustrated on Figure 5-8. Final locations of the wells were selected with consideration to property access restrictions.





24 RW-9 💧

<3

R₩-8●

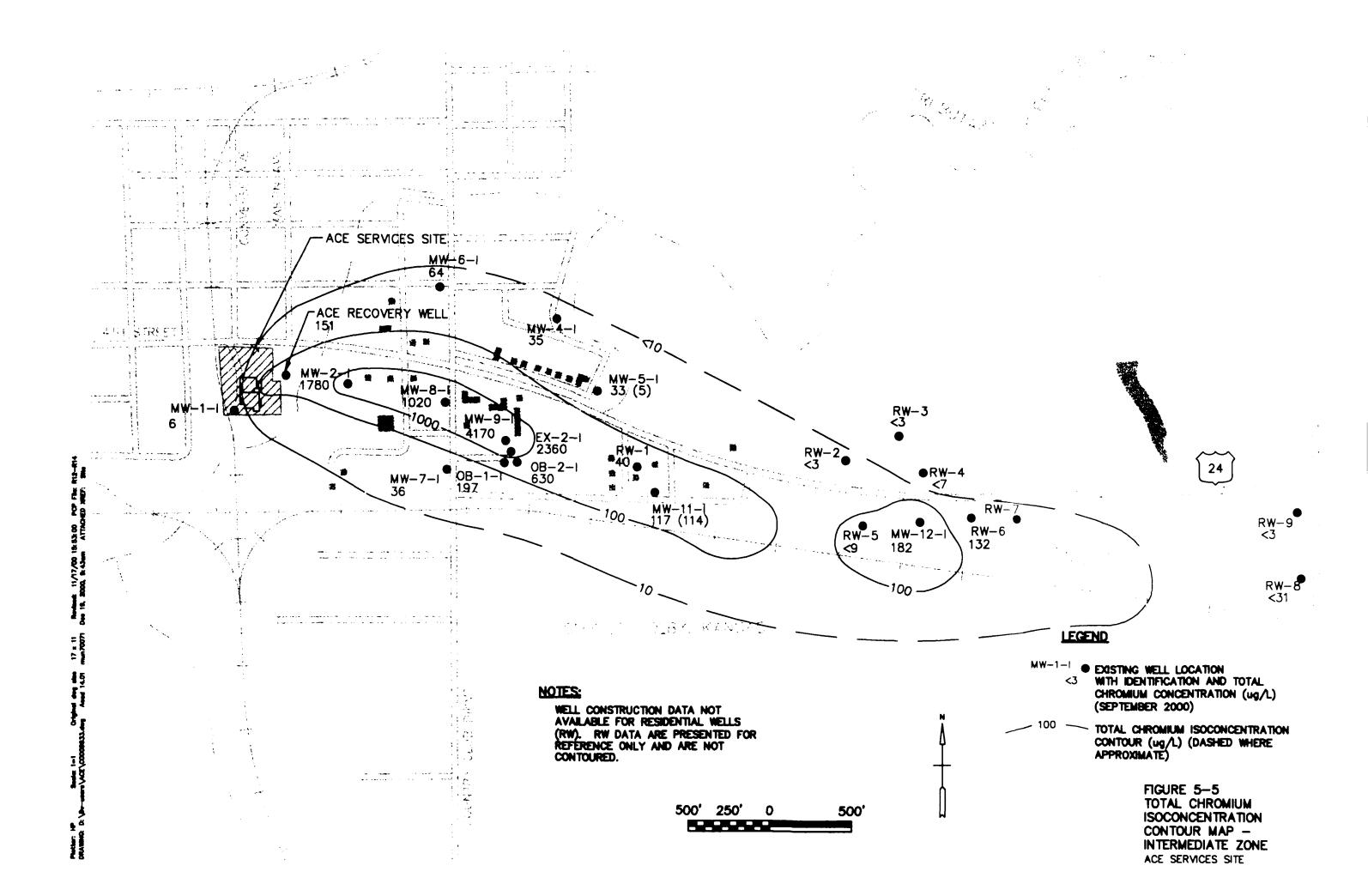
#### <31

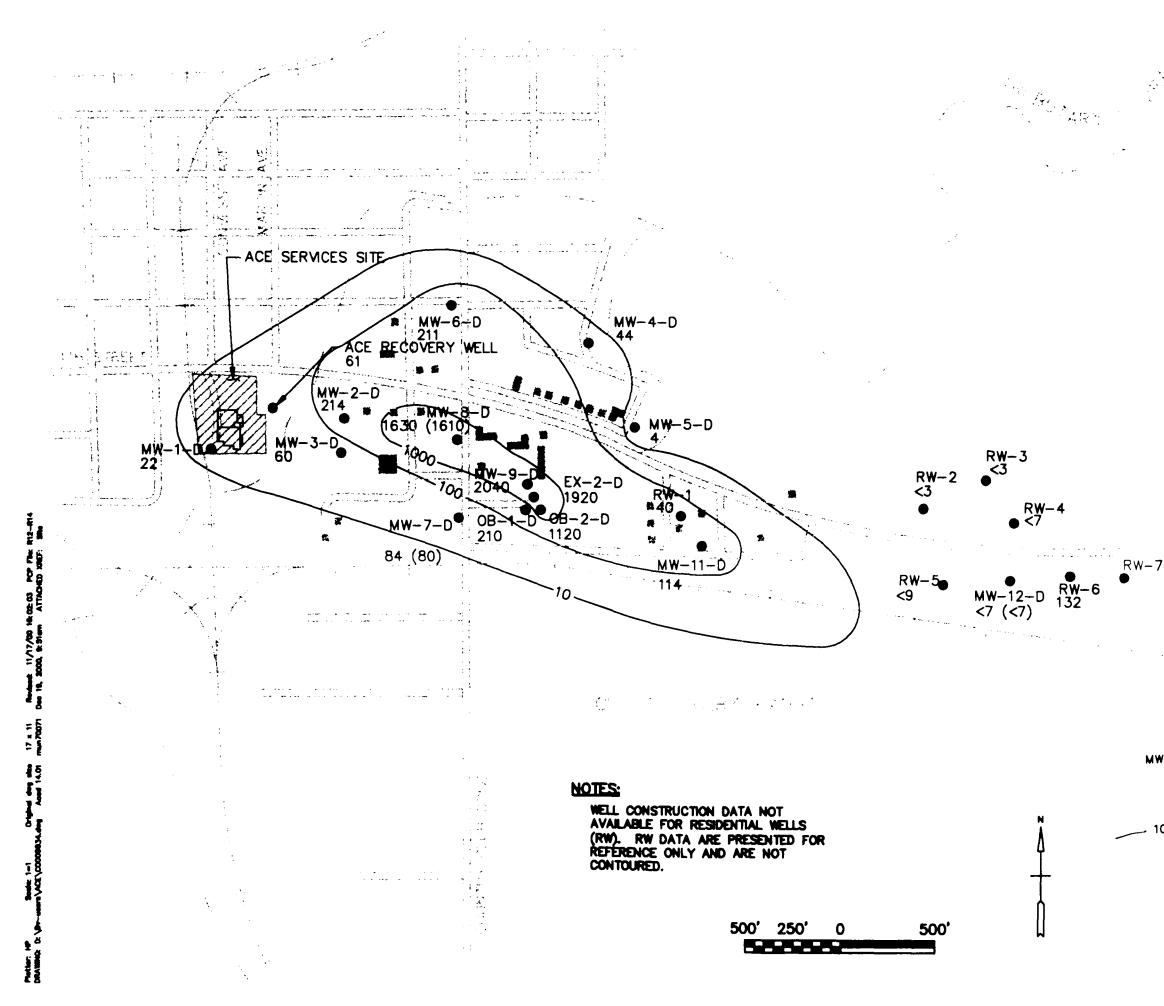
### LEGEND

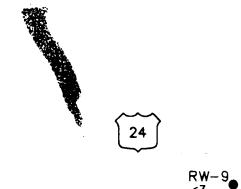
MW-1-S • EXISTING WELL LOCATION <3 WITH IDENTIFICATION AND TOTAL CHROMIUM CONCENTRATION (ug/L) (SEPTEMBER 2000)

100 - TOTAL CHROMIUM ISOCONCENTRATION CONTOUR (ug/L) (DASHED WHERE APPROXIMATE)

> FIGURE 5-4 TOTAL CHROMIUM ISOCONCENTRATION CONTOUR MAP -SHALLOW ZONE ACE SERVICES SITE







RW-8 <31 ●

<3

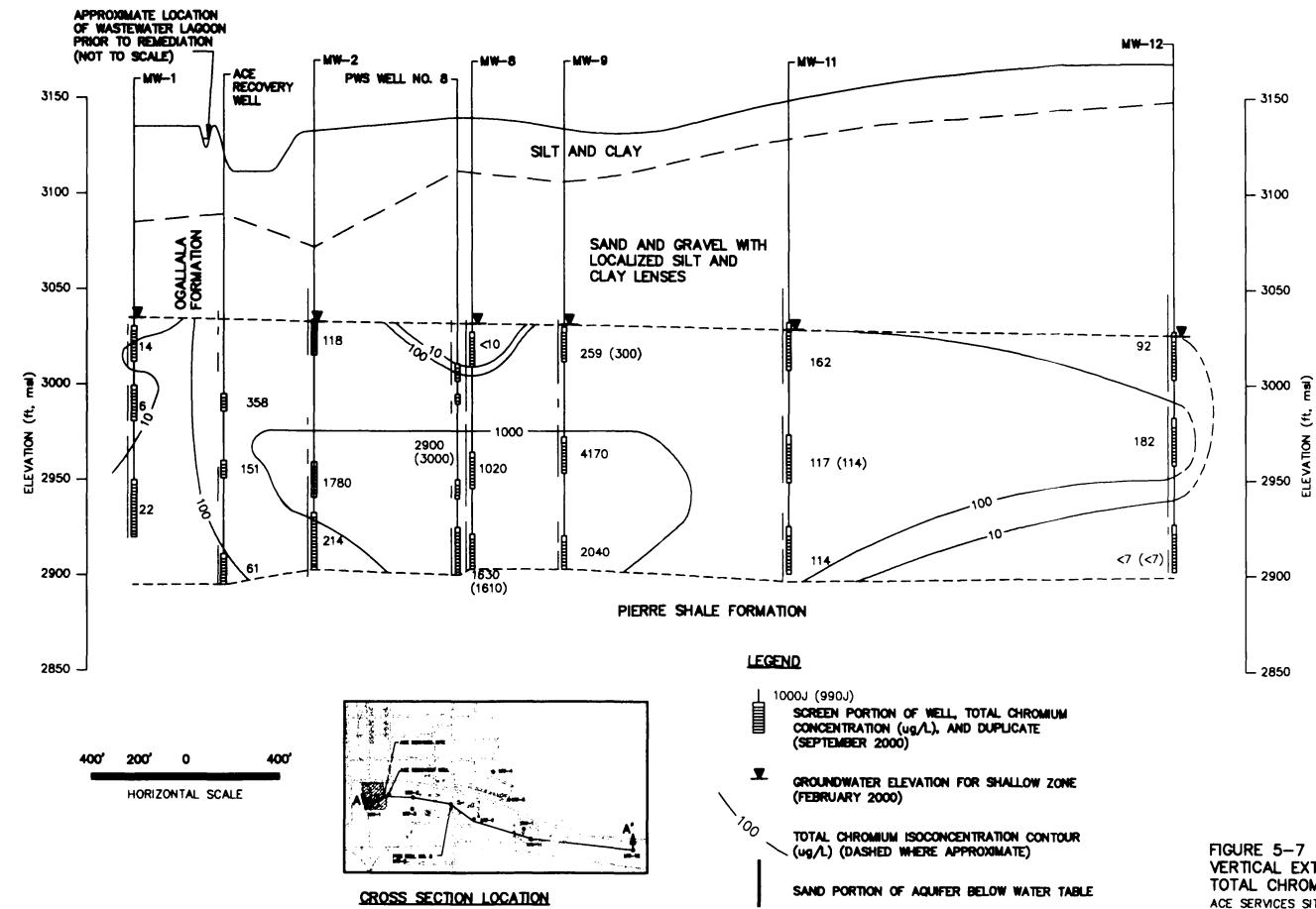
### LEGEND

MW-1-D EXISTING WELL LOCATION 82 WITH IDENTIFICATION AND TOTAL CHROMIUM CONCENTRATION (ug/L) (SEPTEMBER 2000)

100 TOTAL CHROMIUM ISOCONCENTRATION CONTOUR (ug/L) (DASHED WHERE APPROXIMATE)

> FIGURE 5-6 TOTAL CHROMIUM ISOCONCENTRATION CONTOUR MAP -DEEP ZONE ACE SERVICES SITE





ATAORD MID: BA Bar is 2000 to 200 17 # 11 15 F, īŞ <u>الا</u> Platter: H

A' EAST

VERTICAL EXTENT OF TOTAL CHROMIUM ACE SERVICES SITE

#### Table 5-4 RAC VII Ace Services Addendum No. 1 - TM Summary of Historical Analytical Results Total Chromium in Groundwater (ug/L unfiltered) Ace Services Site . . . . . . . . . . . . . Site 1980 1981 1982 1983 1984 1985 1986 1987 1988 6/13-15/89 4/5/90 11/9/90 12/20/90 5.2 3.91 Well Name MW-1-D . ND ND-9 1 1 . . . . . . . . MW-2 D 1910 40 118 ÷ . . . . . • • . . MW-3-D ND-1 ND . . . . • • -• = • • . . MW-4 S . . . . . . . . . . . . MW-5-5 ŗ 132-357 240 480-730 870 1400 9 915 4-985 610-734 430 95-284 Ace Recovery Well 135 Ace Recovery Well (Shallow Screen) : - + - - **1**--• . . Ace Recovery Well (Intermediate Screen) 1 . • • - + : Ļ . ٠ Ace Recovery Well (Deep Screen) : 4 - 1 • • . Colby PWS Well No 1 276-1800 1100 10-990 . . . Hi-Plains HPMW-6-5 4.4 . . - 1 1 . 5-16 Hi-Plains HPMW-9-S 1 - 1 1 . . Rendential Well #5 17 17 - 1 . . 1 . . . . . . 1 Residential Well #6 . • • . . . . . Residential Well #1 ÷ • . . • .... . . . Residential Well #2 . . : . . . Residential Well #3 ND ND . . . . . . . Residential Well #4 . . . • • . . . Colby Wrecking Co. Well . . . . . . . . . . • Residential Well #7 • • . . . . . . . . . ÷ Residential Well #8 • • . . . . . ; . . . . ND Colby Implement Co Well 20 20 ND 3-14 ND 4100 . ND Meadowlark Inn Well · · . . ND ND 10 ND 6 4-7 ND 12 Cobblestone Inn Well . . J = Estimated

ND(10) - Chromium not detected at identified detection limit

a = Duplicate sample result in parentheses

b - KDHE split sample result in brackets

c = Hi-Plains Co-op Report, February 21, 1995

312-357 \* Minimum-maximum range of total chromium during sampling period

MCL for Chromium =100 ug/L

Source - KDHE 1919, KDHE 1996

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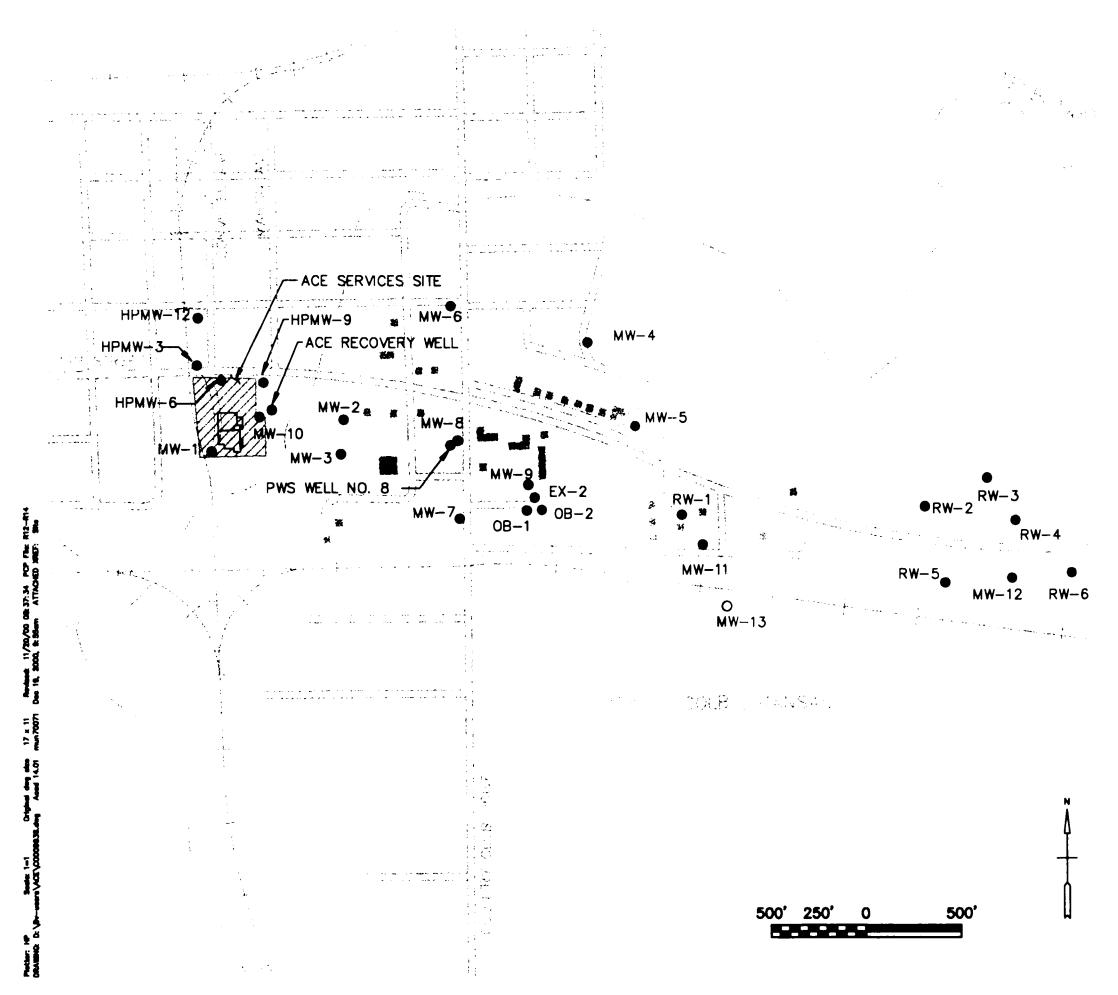
| ć        |                  |               | •            |            |          |                   |
|----------|------------------|---------------|--------------|------------|----------|-------------------|
| 12 21/94 | 12/12/95-1-10/96 | 0 23 25 00    | 11/3-6/97    | 10.494     | 200      | Q (W)             |
|          | . ND             | . 291         | ND(10)       | 82         |          |                   |
|          | 345              | 2 610 (2 680) |              | 1180(1240) |          | 214               |
|          |                  | [2,447]       | 1,200(1,200) |            |          |                   |
|          | 53               | 20 2          | ND(10)       | 105        |          | 60                |
|          |                  |               | ND(10)       | 92         |          | 22                |
|          | •                |               | ND(10)       | 94         |          | ND (3)<br>(ND(3)) |
|          | . 242            | 283           |              |            |          |                   |
|          |                  |               | 870          | 1110       |          | 358               |
|          | •                |               | 250          | 471        |          | 151               |
|          |                  |               | 60           | 160        |          | .61               |
|          | . 51/64          | 680[614]      | 2,700(2,600) | 1930(2050) | 1        | 2900(3000)        |
| ND (30)  | I .              |               |              | 73         |          | ND(3)             |
| 1800     |                  |               |              | 501        |          | 374               |
|          | 18               | 27 5          | 20           | 11         |          | ND(9)             |
|          | 24               | 32.2          | 60           | 122        | 104(101) | 132               |
|          |                  | 43.4          | 40           | 37         | 36       | 40                |
|          | ND               |               | ND(10)       | ND(10)     |          | ND(3)             |
|          | ND               |               | NIX 10)      | 22         |          | ND(3)             |
|          | ND               |               | ND(10)       | ND(10)     |          | ND(7)             |
|          | ND               |               |              |            |          |                   |
|          | . 14             |               |              |            | •        |                   |
|          | •                |               | •            |            | • •      | ND(31)            |
|          | ND               |               |              |            |          |                   |
|          | Plugged          |               |              |            |          |                   |
|          | Plugged          |               | •            |            |          |                   |

The site survey base map will include the area identified as part of the site. The site survey base map will include areas where additional extraction well nests may need to be installed to achieve the active remediation goal defined in the ROD for the site.

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5-17





24

R₩-7

RW-8

R₩-9●

0 MW-14

### LEGEND

MW-14 O PROPOSED WELL NEST LOCATION WITH IDENTIFICATION

> FIGURE 5-8 LOCATIONS FOR PROPOSED MONITORING WELLS ACE SERVICES SITE

# 6.0 Bibliography

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
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Appendix A Boring Logs

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|                |                  | -             |                 | -                                                                                                |          |                    |                                                               |        |             |                        |                            |                |         |                       | ······································                  |
|----------------|------------------|---------------|-----------------|--------------------------------------------------------------------------------------------------|----------|--------------------|---------------------------------------------------------------|--------|-------------|------------------------|----------------------------|----------------|---------|-----------------------|---------------------------------------------------------|
|                |                  | BL            | ACK             | V 3                                                                                              | ΈΑΤ      | СН                 |                                                               |        | ~~          |                        |                            |                | BORIN   |                       | 0B-1-S                                                  |
|                |                  |               |                 |                                                                                                  |          |                    |                                                               |        | JG          | OF BOR                 |                            |                |         | SI                    | HEET 1 OF 1                                             |
| CLIEN          | IT<br>PA         |               |                 |                                                                                                  |          |                    |                                                               |        |             | PROJ<br>Ace            | ECT<br>Services            |                |         |                       | PROJECT NO.<br>46118                                    |
| PROJE<br>Colb  | CT LO            | CATION<br>as  | 1               |                                                                                                  | C        | 00RD1              | NATES<br>0.0860                                               | 7.     | E 103       | 08.46867'              | ELEVATION<br>3142.71 (m    | (DATUM)<br>si) | TOTAL D | ЕРТН<br>ЕТ            | DATE START<br>7/12/00                                   |
| SURF           |                  | NDITIO        | ONS             |                                                                                                  |          |                    |                                                               |        |             |                        | LOGGED BY<br>G. Felkner    |                |         |                       | DATE FINISH<br>7/12/00                                  |
|                |                  |               | AMPLIN          |                                                                                                  |          |                    | CHECI                                                         | KED    | BY          |                        |                            | APPROVED       | ) BY    |                       |                                                         |
| SANPLE<br>TYPE | SANPLE<br>NUMBER | SET           | 200<br>INCHES   | B INCHES                                                                                         | VALUE    | SAMPLE<br>Recovery | B. Sr<br>(0, x)                                               |        | 1           |                        |                            | B. Smith       |         |                       |                                                         |
| NS I           | N SN             | B IN          | ⊼ <u>×</u><br>9 | 6<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | - \$     | R S S              | FT (x                                                         | TYPE   | 100         |                        |                            |                |         |                       |                                                         |
|                |                  |               | CORING          |                                                                                                  |          |                    |                                                               |        | 1<br>H      | CLAS                   | SIFICATION                 | OF MATER       | IAL     |                       | REMARKS                                                 |
| CORE<br>SIZE   | RUN<br>NUMBER    | RUN<br>LENGTH | RUN<br>RECOVERY | R00<br>RECOVERY                                                                                  | RECOVERY | ROO                | DEPTH IN                                                      | SAMPLE | GRAPHIC LOG |                        |                            |                |         |                       |                                                         |
|                |                  |               |                 |                                                                                                  |          |                    | 1 - 2 - 3 - 4 - 5 - 5 - 6 - 7 - 6 - 7 - 6 - 7 - 7 - 7 - 7 - 7 |        |             | Undiffere<br>log for O | entiated Overbu<br>B-1-D). | Jrden (See t   | Doring  | Bottom of<br>Water le | of Doring @ 133'.<br>vel not<br>d.<br>vg well installed |

|                |                  |                 |                 | -               |         |                    | _                                      |                                                                                                            |          |                       |                             |                      | ······         |                                                               |                                                                                                     |
|----------------|------------------|-----------------|-----------------|-----------------|---------|--------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------|----------|-----------------------|-----------------------------|----------------------|----------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| F              |                  | BL              | ACK             | 8 V             | ΈΑΤ     | CH                 |                                        | LC                                                                                                         | )G       | OF BOF                | RING                        |                      | BORI           |                                                               | . OB-1-I<br>HEET 1 OF 1                                                                             |
|                | IT               |                 |                 |                 |         |                    |                                        |                                                                                                            |          | PRO                   | JECT                        |                      |                |                                                               | PROJECT NO                                                                                          |
|                |                  | CATIO           | N               |                 | C       | 00RDI<br>N 9378    | NATES<br>3.57019                       | ε                                                                                                          | 1032     | 8.25223'              | ELEVATION<br>3142.31 (m     | (DATUM)<br>si)       | TOTAL<br>198 F | DEPTH<br>EET                                                  | 46118<br>DATE START<br>7/13/00                                                                      |
|                | ACE CO           | ITION           | ONS             |                 |         |                    |                                        |                                                                                                            |          |                       | LOGGED BY<br>G. Felkner     |                      | L.             |                                                               | DATE FINISH<br>7/13/00                                                                              |
|                |                  | T               |                 | Y               |         |                    | CHECI<br>B. Sr                         | <ed< td=""><td>BY</td><td></td><td></td><td>APPROVED<br/>B. Smith</td><td>BY</td><td></td><td>1</td></ed<> | BY       |                       |                             | APPROVED<br>B. Smith | BY             |                                                               | 1                                                                                                   |
| SAMPLE<br>1YPE | SAMPLE<br>Number | SET<br>B INCHES | 2ND<br>B INCHES | 3RD<br>8 INCHES | VALUE   | SAMPLE<br>Recovery | FT (x10)                               | ТүрЕ                                                                                                       | ۲ OG     |                       |                             | D. Smith             | <u> </u>       |                                                               |                                                                                                     |
|                | ·                | T .             | CORING          |                 |         | r<br>T             |                                        | ЦШ                                                                                                         | LIC<br>H | CLAS                  | SIFICATION                  | OF MATER             | IAL            |                                                               | REMARKS                                                                                             |
| SIZE           | NUMBER           | RUN<br>LENGTH   | RECOVERY        | ROD<br>RECOVERY | PERCENT | 800                | DEPTH IN                               | SAMPLE                                                                                                     | GRAPHIC  |                       |                             |                      |                |                                                               |                                                                                                     |
|                |                  |                 |                 |                 |         |                    | 1<br>2<br>3<br>4                       |                                                                                                            |          | Undiffer<br>log for ( | entiated Overbu<br>08-1-0). | urden (See I         | boring         | Boring<br>rotary i<br>w/5-3/<br>Reamed<br>drag bi<br>drilling | advanced using<br>wash methods<br>8" OD drag bit.<br>5 boring w/8" OD<br>t using water as<br>fluid. |
|                |                  |                 |                 |                 |         |                    | 5 —<br>6 —<br>7 —<br>8 —<br>9 —        |                                                                                                            |          |                       |                             |                      |                |                                                               |                                                                                                     |
|                |                  |                 |                 |                 |         |                    | 10<br>11<br>12<br>13<br>14<br>15<br>16 |                                                                                                            |          |                       |                             |                      |                |                                                               |                                                                                                     |
|                |                  |                 |                 |                 |         |                    | 17                                     |                                                                                                            |          |                       |                             |                      |                | Water le<br>recorde                                           | of boring @ 198'.<br>evel not<br>ed.<br>ing well installed<br>/00.                                  |
|                |                  |                 |                 |                 |         |                    | 24<br>25<br>26<br>27<br>28<br>29       |                                                                                                            |          |                       |                             |                      |                |                                                               |                                                                                                     |

|        |                                                                            |                 | ACK             |                 |       |                                       |                                                   | _L(      | OG               |           |                           |                      | BORIN   |                                                                                 | OB-1-D<br>SHEET 1 OF 8<br>PROJECT NO.<br>46118                                                                         |
|--------|----------------------------------------------------------------------------|-----------------|-----------------|-----------------|-------|---------------------------------------|---------------------------------------------------|----------|------------------|-----------|---------------------------|----------------------|---------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|        | CT LO                                                                      | CATIO           | N               |                 |       | 00RDI<br>N 9362                       |                                                   |          | E 103            | 32.46531  | ELEVATION<br>3141.98' (ms |                      | 240 FI  | DEPTH                                                                           | DATE START<br>7/12/00                                                                                                  |
| SURF   | ACE CO                                                                     | DNDITI          | ONS             |                 | L     | N 8302                                | .4823                                             |          | E 103            | 52.40551  | LOGGED BY                 | ''                   | 1240 11 |                                                                                 | DATE FINISH                                                                                                            |
| Grav   | 1                                                                          | <u> </u>        | AMPLIN          | r               |       |                                       | CHEC<br>B. Sr                                     |          | BY               | - <u></u> | G. Felkner                | APPROVED<br>B. Smith | BY      | · — —                                                                           | 7/12/00                                                                                                                |
| SAMPLE | SANPLE<br>NUMBER                                                           | SET<br>B INCHES | 2ND<br>B INCHES | 3RD<br>8 INCHES | VALUE | SAMPLE<br>RECOVERY                    | FEET                                              | TYPE     | 90               |           |                           |                      |         |                                                                                 |                                                                                                                        |
|        |                                                                            | · · · · ·       | CORING          | 3               | L     | · · · · · · · · · · · · · · · · · · · | DEPTH IN F                                        | SAMPLE T | L<br>I<br>I<br>I |           | SIFICATION                |                      | [ ] 1   |                                                                                 | REMARKS                                                                                                                |
| CORE   | SIZE<br>RUN<br>RUN<br>RUN<br>RUN<br>RUN<br>RUN<br>RUN<br>RUN<br>RUN<br>RUN |                 |                 |                 |       |                                       |                                                   |          | GRAPHIC LOG      |           |                           |                      |         |                                                                                 | nemanks                                                                                                                |
|        |                                                                            |                 |                 |                 |       |                                       | 1 - 2 - 3 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 |          |                  |           | ILT, brown, non-          | -plastic.            |         | Boring a<br>rotary w<br>w/5-3/8<br>Reamed<br>drag bit<br>drilling f<br>logged f | dvanced using<br>ash methods<br>5° OD drag bit<br>boring w/8° OD<br>using water as<br>luid. Lithology<br>rom cuttings. |

| <b></b>        |                  |                 |                 |                 |                     | -                  |                 |         |         |          |                                       |                      |                                              |             |                         |
|----------------|------------------|-----------------|-----------------|-----------------|---------------------|--------------------|-----------------|---------|---------|----------|---------------------------------------|----------------------|----------------------------------------------|-------------|-------------------------|
|                | : ]/             | BL              | ACK             | 8 V             | 'EAT                | СН                 |                 |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    |                 | L(      | DG      | OF BOF   | RING                                  |                      | BORIN                                        |             | . 0B-1-D<br>HEET 2 0F 8 |
|                |                  |                 |                 |                 |                     |                    |                 |         |         | PRO      | ECT<br>Services                       |                      |                                              |             | PROJECT NO. 46118       |
| PROJE          |                  | CATIO<br>as     | N               |                 | C                   | COORD1             | NATES<br>2.4923 | 5<br>9' | E 103   | 32.46531 | ELEVATION (<br>3141.98' (msl)         | DATUM)               | TOTAL D                                      | EPTH<br>EET | DATE START<br>7/12/00   |
| SURF.<br>Grav  |                  |                 | ONS             |                 |                     |                    |                 |         |         |          | LOGGED BY<br>G. Felkner               |                      |                                              |             | DATE FINISH<br>7/12/00  |
|                |                  | r               |                 | T               |                     |                    | СНЕС            | KED     | BY      |          | · · · · · · · · · · · · · · · · · · · | APPROVED<br>B. Smith | BY                                           |             | 1 1712700               |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER | SET<br>B INCHES | 2ND<br>B INCHES | B INCHES        | VALUE               | SAMPLE<br>RECOVERY | B. ST           | TYPE    | ٢ ٥٥    |          |                                       | D. 5milli            | <u>.                                    </u> | <u> </u>    |                         |
|                |                  |                 |                 | 5               | I<br>               | <br>               | L<br>Z          |         | IC L    |          | SIFICATION O                          | E MATERI             | Δ.                                           |             | REMARKS                 |
| CORE           | RUN<br>NUMBER    | RUN<br>LENGTH   | RUN             | ROD<br>RECOVERY | PERCENT<br>RECOVERY | Rod                | DEPTH IN        | SAMPLE  | GRAPHIC |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 | - œ                 |                    |                 | -       | 0.00    | Gravelly | SAND, brown, me                       | dium graine          | d.                                           | +           |                         |
|                |                  |                 |                 |                 |                     |                    | 31<br>32        |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 33 -<br>34 -    |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 35<br>36        |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 37<br>38        |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 39<br>40        |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 41<br>42        |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 43<br>44        |         |         | Sandy C  | LAY, brown.                           |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 45              |         |         |          |                                       |                      |                                              | ļ           |                         |
|                |                  |                 |                 |                 |                     |                    | 46 —            | ł       |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 47 —            | 1       |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 48              | 1       |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 49 -            |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 50<br>51        |         |         | Silty CL | Y; brown.                             |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 52              |         |         |          |                                       |                      |                                              | 1           |                         |
|                |                  |                 |                 |                 |                     |                    | 53 -            |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 54              |         |         | Sandy C  | LAY, brown.                           |                      |                                              |             |                         |
| 1              |                  |                 |                 |                 |                     |                    | 55 -            |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 56 -            |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 57              |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 | 1               |                 |                     |                    | 58 —            |         |         |          |                                       |                      |                                              |             |                         |
|                |                  |                 |                 |                 |                     |                    | 59 —            |         |         |          |                                       |                      |                                              |             |                         |

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|                |                  | BL            | ACK           | v a             | EAT     | СН                 |                                                                                                                                                                    |             |         |          |    |                           | <u>.</u>            |                |       | <u></u>                 |
|----------------|------------------|---------------|---------------|-----------------|---------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|----------|----|---------------------------|---------------------|----------------|-------|-------------------------|
| L              |                  |               |               | - •             |         | 2                  |                                                                                                                                                                    | L(          | DG      | OF BOF   | ٦I | NG                        |                     | BORI           |       | . 0B-1-D<br>HEET 3 OF 8 |
| CLIEN<br>USEF  |                  |               |               |                 |         |                    |                                                                                                                                                                    |             |         | PRO      | JE |                           |                     |                |       | PROJECT NO.<br>46118    |
| PROJE          | CT LO            | CATIO<br>as   | N             |                 | c       | 00RD1              | NATES                                                                                                                                                              | 9'          | E 103   | 32.46531 |    | ELEVATION<br>3141.98' (ms | (DATUM)<br>I)       | TOTAL<br>240 F | DEPTH | DATE START<br>7/12/00   |
| SURF /<br>Grav | ACE CC           | NDITI         | ONS           |                 |         |                    |                                                                                                                                                                    |             |         |          | l  | OGGED BY<br>G. Felkner    |                     |                |       | DATE FINISH<br>7/12/00  |
|                |                  | r             | AMPLIN        | T               | <br>    |                    | CHEC                                                                                                                                                               | KED<br>nith | BY      |          |    |                           | APPROVE<br>B. Smith | DBY            |       |                         |
| SAMPLE         | SAMPLE<br>NUMBER | 8 INCHES      | 2ND<br>INCHES | 3RD<br>INCHES   | VALUE   | SAMPLE<br>Recovery | FEET                                                                                                                                                               | Ш           | 106     |          |    |                           |                     |                |       |                         |
|                |                  |               |               |                 |         |                    | IN FE                                                                                                                                                              | ETYPE       |         |          | 55 | IFICATION (               | DE MATER            | RTAI           |       | REMARKS                 |
| CORE           | RUN              | RUN<br>LENGTH | RECOVERY      | ROD<br>RECOVERY | PERCENT | R00                | DEPTH IN                                                                                                                                                           | SAMPLE      | GRAPHIC |          |    |                           |                     |                |       |                         |
|                |                  |               |               |                 |         |                    | 61 - 62 - 63 - 62 - 63 - 64 - 65 - 66 - 67 - 68 - 67 - 68 - 67 - 68 - 67 - 71 - 72 - 73 - 72 - 73 - 73 - 74 - 75 - 73 - 74 - 75 - 75 - 77 - 78 - 78 - 78 - 78 - 78 |             |         |          |    |                           |                     |                |       |                         |

|                |                  |                                                                                                  |               |                 |          |                    |            | _            |         |           |                                     |                     |          |                        |
|----------------|------------------|--------------------------------------------------------------------------------------------------|---------------|-----------------|----------|--------------------|------------|--------------|---------|-----------|-------------------------------------|---------------------|----------|------------------------|
| E              | = ],             | BL                                                                                               | ACK           | & v             | 'EA1     | ГСН                |            |              |         |           |                                     | BORING              |          | 0B-1-D                 |
|                |                  |                                                                                                  |               |                 |          |                    |            | LC           | DG      | OF BOF    | RING                                | Domine              |          | ET 4 OF 8              |
| CLIEN          |                  |                                                                                                  |               |                 |          | -                  |            |              |         |           | JECT<br>Services                    |                     |          | PROJECT NO.<br>46118   |
| PROJE          |                  | CATIO<br>as                                                                                      | N             |                 | 1        | COORD1<br>N 936    | NATES      | 9' I         | E 103   | 32.46531' | ELEVATION (DATUM)<br>3141.98' (msl) | TOTAL DE<br>240 FEE | РТН<br>Т | DATE START<br>7/12/00  |
| SURF /<br>Grav |                  | NDITI                                                                                            | ONS           |                 | L        |                    |            |              |         |           | LOGGED BY<br>G. Felkner             |                     |          | DATE FINISH<br>7/12/00 |
|                | сı.<br>т         | S                                                                                                |               | v               |          | ••••••             | СНЕС       | KED          | BY      |           | APPROVE                             | D BY                |          | 112700                 |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER | SET<br>INCHES                                                                                    | 2ND<br>INCHES | 3RD<br>8 INCHES | VALUE    | SAMPLE<br>RECOVERY | B. S       | T            | 1       |           | B. Smith                            | <u> </u>            |          |                        |
| SAN<br>TY      | SAH              | 9<br>1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | t≂¥.<br>©     | та<br>В         |          | RECO               | FEET       | TYPE         | LOG     |           |                                     |                     |          |                        |
|                |                  |                                                                                                  | CORING        | *               | ·        | •                  | Z          | <del>–</del> |         | CLAS      | SSIFICATION OF MATE                 |                     | F        | REMARKS                |
| CORE           | NUMBER           | RUN<br>LENGTH                                                                                    | RECOVERY      | ROD<br>RECOVERY | PERCENT  | ROD                | DEPTH IN   | SAMPLE       | GRAPHIC |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 | <u>}</u> |                    | 91         |              |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 92         |              |         |           | SAND, Drown.                        |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 93 -       | 4            |         | Sandy C   | LAY, Drown.                         |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 94         |              |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 95         |              |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 96 -       | 4            |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 97         |              |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 98 -       |              |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 99 -       |              |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 100 -      |              |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 101        |              | ffff    | Silty SAI | ND; brown.                          | ·                   |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 102 -      | 1            |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 103 -      | 1            |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 104<br>105 | ]            |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 105 -      | ]            |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 107 -      |              |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 108 -      |              |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 109 -      |              | Щ       | Gravellu  | SAND, brown, medium graw            |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 110 -      |              |         | w/some    | clay.                               | neu                 |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 111        | -            |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 112 -      | -            |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 113        |              | 000     | I         |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          | ļ                  | 114 -      |              |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 115 -      | 1            |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 116 -      | 1            |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 117 -      | 1            |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 |          |                    | 118        | 1            |         |           |                                     |                     |          |                        |
|                |                  |                                                                                                  |               |                 | ļ        | ļ                  | 119 —      | 1            |         |           |                                     |                     |          |                        |

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|                | ₹                 | BL             | ACK       | 8 V             | EAT      | СН                 |                                                                                                                                                                             | 1.0         | 1G      | OF BOF   |              |                      | BORIN    |      | OB-1-D<br>IEET 5 OF 8  |
|----------------|-------------------|----------------|-----------|-----------------|----------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|----------|--------------|----------------------|----------|------|------------------------|
| CLIEN          | NT T              |                |           |                 |          |                    |                                                                                                                                                                             |             |         | PRO.     | ECT          |                      |          |      | PROJECT NO.            |
| USE            | PA<br>ECT LO      |                | N         |                 |          | COORDI             | NATES                                                                                                                                                                       |             |         | Ace      | ELEVATION    |                      | TOTAL DE | EPTH | 46118<br>DATE START    |
| Colb           | y, Kans<br>ACE CC | 35             |           |                 | [        | N 938              | 2.4923                                                                                                                                                                      | 9. 1        | E 103   | 32.46531 | 3141.98' (ms |                      | 240 FE   | ET   | 7/12/00<br>DATE FINISH |
| Grav           |                   |                |           | <u></u>         | <u> </u> |                    |                                                                                                                                                                             |             |         | <u></u>  | G. Felkner   | T                    |          |      | 7/12/00                |
|                | ωœ                | T              |           | T               |          | μÅ                 | CHEC<br>B. Sr                                                                                                                                                               | KED<br>nith | BY      |          |              | APPROVED<br>B. Smith |          |      |                        |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER  | 8ET<br>BINCHES | NO INCHES | B INCHES        | VALUE    | SAMPLE<br>RECOVERY | FEET                                                                                                                                                                        | TYPE        | 106     |          |              |                      |          |      |                        |
|                | I                 |                | CORING    | 3               |          |                    | L<br>Z                                                                                                                                                                      |             | L L     |          | SIFICATION   | DE MATER             |          |      | REMARKS                |
| CORE           | RUN               | RUN<br>LENGTH  | RECOVERY  | ROD<br>RECOVERY | RERCENT  | ROO                | DEPTH                                                                                                                                                                       | SAMPLE      | GRAPHIC |          |              |                      |          |      |                        |
|                |                   |                |           |                 |          |                    | 122                                                                                                                                                                         |             |         |          |              |                      |          |      |                        |
|                |                   |                |           |                 |          |                    | 135         136         137         138         139         140         141         142         143         144         145         146         147         148         149 |             |         |          |              |                      |          |      |                        |

|                |                  |               |               |                 |          |                    |                  | LC     | )G C                | )F BOF   |                           |             |                |            | 0B-1-D                 |
|----------------|------------------|---------------|---------------|-----------------|----------|--------------------|------------------|--------|---------------------|----------|---------------------------|-------------|----------------|------------|------------------------|
| USEF           |                  |               |               |                 |          |                    |                  |        |                     |          | JECT<br>Services          |             |                |            | PROJECT NO.<br>46118   |
|                | CT LO            |               | N             |                 | C        | :00RDI<br>N 9362   | NATES<br>2.49239 | ) –    | E 10332             | 2.48531  | ELEVATION<br>3141.98' (ms | (DATUM)     | TOTAL DE       | EPTH<br>ET | DATE START<br>7/12/00  |
| _              | ACE CC           | NDITI         | ONS           |                 | l_       |                    |                  |        |                     | _        | LOGGED BY<br>G. Felkner   |             | <del>_</del> _ |            | DATE FINISH<br>7/12/00 |
| orav           |                  | S             |               | IG              |          |                    | СНЕСИ            | ED     | BY                  |          |                           | APPROVED    | ) BY           |            |                        |
| ۲×<br>۲        | ы<br>Ж           | SET<br>INCHES | 2ND<br>INCHES | ES<br>TES       |          | SAMPLE<br>RECOVERY | B. Sr            | hith   | ГТ                  |          |                           | B. Smith    | T              |            |                        |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER | B NG          | <u>₹</u> 2    | B INCHES        | VALUE    | RECO               | FEET             | ТҮРЕ   | LOG                 |          |                           |             |                |            |                        |
|                |                  | L<br> <br>    | CORING        |                 | I        | L<br>T             | IN F             | Ē      |                     | CLAS     | SSIFICATION               | OF MATER    | IAL            |            | REMARKS                |
| CORE<br>SIZE   | RUN<br>NUMBER    | RUN<br>LENGTH | RUN           | ROD<br>RECOVERY | PERCENT  | <b>80</b>          | DEPTH IN         | SAMPLE | GRAPHIC             |          |                           |             |                | I          |                        |
|                |                  |               |               |                 | <u> </u> |                    |                  |        |                     | Clayey S | SAND, brown, fin          | e to medium |                |            |                        |
|                |                  |               |               |                 |          |                    | 151 —            |        |                     | grained. |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 152 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 153 —<br>154 —   |        | $\langle A \rangle$ |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 155 -            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 156              |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 157 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 158 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 159 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 160 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 161              |        | VA.                 |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 162 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 163 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 164 -            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 185              |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 166              |        |                     |          |                           |             | i              |            |                        |
|                |                  |               |               |                 |          |                    | 168 —            |        |                     |          |                           |             |                |            |                        |
| 1              |                  |               |               |                 |          |                    | 169 —            |        |                     |          |                           |             |                |            |                        |
| I              |                  |               |               |                 |          |                    | 170 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 171 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 172 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 173 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 174 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 175 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 176 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 177              |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 178 —            |        |                     |          |                           |             |                |            |                        |
|                |                  |               |               |                 |          |                    | 179 —            |        |                     | Gravelly | SAND, brown.              |             |                |            |                        |

|                |                  | BL            | ACK             | 8 V             | EAT      | сн                 |                                  |        |                                       |                                                        |                 |                         |
|----------------|------------------|---------------|-----------------|-----------------|----------|--------------------|----------------------------------|--------|---------------------------------------|--------------------------------------------------------|-----------------|-------------------------|
|                |                  |               |                 |                 |          |                    |                                  |        | DG                                    | OF BORING                                              |                 | . 0B-1-D<br>HEET 7 OF 8 |
| CLIEN          |                  |               |                 |                 |          |                    |                                  |        |                                       | PROJECT<br>Ace Services                                |                 | PROJECT NO.<br>46118    |
|                | CT LO            |               | N               |                 | C        | 00RD1              | NATES                            |        | E 103                                 | ELEVATION (DATUM) TOTA<br>32.48531' 3141.98' (msl) 240 | L DEPTH<br>FEET | DATE START<br>7/12/00   |
|                | CE CO            |               | ONS             |                 | ·        |                    |                                  |        |                                       | LOGGED BY<br>G. Felkner                                |                 | DATE FINISH<br>7/12/00  |
|                |                  |               | AMPLIN          |                 |          |                    | CHEC                             | KED    | BY                                    | APPROVED BY<br>B. Smith                                |                 |                         |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER | 8 INCHES      | 2ND<br>B INCHES | B INCHES        | VALUE    | SAMPLE<br>Recovery | FEET                             | TYPE   | L OG                                  |                                                        |                 |                         |
|                |                  |               | CORING          |                 |          | •——-<br>T          | NI                               |        | HIC                                   | CLASSIFICATION OF MATERIAL                             |                 | REMARKS                 |
| SIZE           | RUN<br>NUMBER    | RUN<br>LENGTH | RUN             | ROD<br>RECOVERY | RECOVERY | Roo                | DEPTH IN                         | SAMPLE | GRAPHIC                               |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 181 —<br>182 —<br>183 —<br>184 — |        | , , , , , , , , , , , , , , , , , , , |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 185 —<br>186 —                   |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 187 —                            |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 188 —                            |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 189 —                            |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 190 —                            |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 191 —<br>192 —                   |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 193 —                            |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 194                              |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 195 —                            |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 196 —                            |        |                                       | Silty CLAY.                                            |                 |                         |
|                |                  |               |                 |                 |          |                    | 197 —<br>198 —                   |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 199 -                            |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 200 —                            |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 201 —                            |        | $\langle \rangle$                     |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 202 —                            |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 203 —                            |        | $\langle \rangle$                     |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 204 -                            |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 205 —<br>206 —                   |        |                                       |                                                        |                 |                         |
|                | 1                |               |                 |                 |          |                    | 208 -                            |        |                                       | Clayey SAND, brown, medium grained.                    |                 |                         |
|                |                  |               |                 |                 |          |                    | 208 -                            |        |                                       |                                                        |                 |                         |
|                |                  |               |                 |                 |          |                    | 209 —                            |        |                                       |                                                        |                 |                         |

|             |                  |               |                 |                 |                     |                    |                | LC     | G (     | DF BOF      |                                     |         | BORING               | NO. OB-                             | DF 8        |
|-------------|------------------|---------------|-----------------|-----------------|---------------------|--------------------|----------------|--------|---------|-------------|-------------------------------------|---------|----------------------|-------------------------------------|-------------|
| LIEN        |                  |               |                 |                 |                     |                    |                |        |         | PRO.<br>Ace | ECT<br>Services                     |         |                      | PROJE0<br>46118                     | CT NO.      |
|             | CT LO            |               | 4               |                 | C                   | 00RDI<br>N 9362    | NATES          | 9. t   | E 1033  | 2.46531     | ELEVATION (DA<br>3141.98' (msi)     | TUM)    | TOTAL DEP<br>240 FEE | T DATE                              | START       |
|             | ACE CO           |               | ONS             |                 |                     |                    |                |        |         |             | LOGGED BY<br>G. Felkner             |         | <u></u>              |                                     | INISH       |
|             | <u> </u>         | S             | AMPLIN          | IG              |                     |                    | CHEC           | KEDI   | BY      |             | AP                                  | PROVED  | 8Y                   |                                     |             |
| ت<br>ل<br>ل | SAMPLE<br>NUMBER | SET           | 2ND<br>INCHES   | B INCHES        | VALUE               | SAMPLE<br>Recovery | B. Sr          | r —    | ГТ      |             | В                                   | Smith   |                      |                                     |             |
| SANPLE      | SAN              | 9 IN SS       | €¥              | 15 X.           | 1 N                 | RECO               | FEET           | ТҮРЕ   | 100     |             |                                     |         |                      |                                     |             |
|             |                  |               | CORING          | _               |                     | •                  | z              | L<br>L |         | CLAS        | SSIFICATION OF                      | MATERI  | AL                   | REMAR                               | ĸs          |
| SIZE        | RUN<br>NUMBER    | RUN<br>LENGTH | RUN<br>RECOVERY | ROD<br>RECOVERY | PERCENT<br>RECOVERY | R00                | DEPTH IN       | SAMPLE | GRAPHIC |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 211            |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 212 -          |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 213            |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 214            |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 215 —          |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 216            |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 217            |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 218            |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 219<br>220     |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 220            |        |         | CLAY; br    | own.                                |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 222            |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 223 -          |        |         |             |                                     |         | ľ                    |                                     |             |
|             |                  |               |                 |                 |                     |                    | 224 -          |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 225 -          |        |         | Gravelly    | SAND, brown.                        |         |                      |                                     |             |
|             |                  | Ì             |                 |                 |                     |                    | 226            |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 227 -          |        |         |             |                                     |         | }                    |                                     |             |
|             |                  |               |                 |                 |                     |                    | 228 -          |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 229<br>230     |        | 000     |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 230            |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 232            |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 233            |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 234 -          |        |         |             |                                     |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 235 —          |        |         | SHALE,      | grayish-green, thin i               | bedded. |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 236 -          |        |         | (Pierre     | grayish-green, thin i<br>Shale Fm). |         |                      |                                     |             |
|             |                  |               |                 |                 |                     |                    | 237 -          |        |         |             |                                     |         | ~                    | 4000 gallons w<br>sed during drilli | ater<br>ng. |
|             |                  |               |                 |                 |                     |                    | 238 —<br>239 — |        |         |             |                                     |         | в                    | lottom of boring<br>later level not | -           |

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| 6              |                  | BL            | ACK             | s v             | EAT     | СН                 |                                                   |          |         |                       |                       |                        |                 |         |                                                                                             |                        |
|----------------|------------------|---------------|-----------------|-----------------|---------|--------------------|---------------------------------------------------|----------|---------|-----------------------|-----------------------|------------------------|-----------------|---------|---------------------------------------------------------------------------------------------|------------------------|
|                |                  |               |                 |                 |         |                    |                                                   | L(       | DG      | OF BOF                | RING                  |                        |                 | BORIN   |                                                                                             | OB-2-S<br>HEETIOFI     |
| CLIEN          |                  |               |                 |                 |         |                    |                                                   |          |         | PRO                   | ECT<br>Services       | ;<br>;                 |                 |         |                                                                                             | PROJECT NO.<br>46118   |
|                | CT LO            |               | 1               |                 | C       | 00RD1              | NATES<br>2.08295                                  | 5. 1     | E 103   | 92.88955              | ELEVA<br>3159.5       | TION (DA'<br>59' (msi) | TUM)            | TOTAL D | DEPTH<br>EET                                                                                | DATE START<br>7/14/00  |
| SURF /<br>Gras | ACE CO<br>sy.    |               | ONS             |                 |         |                    |                                                   |          |         |                       | LOGGED<br>G. Felkr    | BY                     |                 |         |                                                                                             | DATE FINISH<br>7/14/00 |
|                |                  | r             |                 | T               |         |                    | CHECI<br>B. Sr                                    |          | BY      |                       |                       |                        | PROVED<br>Smith | BY      |                                                                                             |                        |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER | 6 INCHES      | 2ND<br>B INCHES | 3RD<br>B INCHES | VALUE   | SAMPLE<br>Recovery | FT (x10)                                          | ТҮРЕ     | 106     |                       |                       | -                      |                 |         |                                                                                             |                        |
|                |                  | L             | CORING          | 5               | l       |                    |                                                   | ΕTY      | IC F    | CLAS                  | SSIFICAT              | TION OF N              | MATERI          | AL      | 1                                                                                           | REMARKS                |
| CORE           | RUN              | RUN<br>LENGTH | RECOVERY        | ROD<br>RECOVERY | PERCENT | <b>B</b> OD        | DEPTH JN                                          | SAMPLE ' | GRAPHIC |                       |                       |                        |                 |         |                                                                                             |                        |
|                |                  |               |                 |                 |         |                    | 1 - 2 - 3 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 |          |         | Undiffer<br>log for ( | entiated (<br>B-2-D). | Dverburden             | See D           | oring   | rotarý w<br>w/5-3/8<br>Reamed<br>drag bit<br>drilling f<br>Bottom (<br>Water le<br>recorded |                        |

| USEPA                              |                 |                             |         |                    |                                           |             |         | PROJ<br>Ace            | ECT<br>Services            |                |                |                    | PROJECT NO.<br>46118       |
|------------------------------------|-----------------|-----------------------------|---------|--------------------|-------------------------------------------|-------------|---------|------------------------|----------------------------|----------------|----------------|--------------------|----------------------------|
| ROJECT LI<br>Colby, Kar            |                 |                             |         | COORDI<br>N 9377   | NATES<br>7.94194                          | · E         | E 1040  | 2.35013'               | ELEVATION<br>3138.63' (ms  | (DATUM)<br>si) | TOTAL<br>196 F | DEPTH<br>EET       | DATE START<br>7/14/00      |
| URFACE C<br>Grassy                 |                 | s                           |         |                    |                                           |             |         |                        | LOGGED BY<br>G. Felkner    |                |                |                    | DATE FINISH<br>7/14/00     |
|                                    | T               | PLING                       | r       |                    | CHECI<br>8. Sr                            | KED<br>hith | BY      |                        | L                          |                | BY             |                    | <b>A</b>                   |
| SAMPLE<br>17PE<br>SAMPLE<br>NUMBER | SET<br>B INCHES | 8 INCHES<br>3RD<br>8 INCHES | VALUE   | SAMPLE<br>Recovery | FT (x10)                                  | TΥPE        | 100     |                        |                            | 1              |                |                    |                            |
| 1                                  |                 | RING                        | <br>    |                    |                                           |             | IC L    |                        | SIFICATION                 | NE MATER       | 141            |                    | REMARKS                    |
| CORE<br>SIZE<br>RUN<br>NUMBER      | RUN<br>LENGTH   | RECOVERY<br>ROD<br>RECOVERY | PERCENT | ROD                | DEPTH IN                                  | SAMPLE      | GRAPHIC | CLAS                   |                            |                |                |                    | NEMANAS                    |
|                                    |                 |                             |         |                    | 1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 |             |         | Undiffere<br>log for O | entiated Overbur<br>B-2-D) | rden (See t    | Doring         | Bottom<br>Water le | of boring @ 196<br>vel not |

|       |                  | <br>            |                 |                 |          |                    |              | L      | DG            | OF BOR      |                            | ·        | BORIN |                    | OB-2-D<br>SHEET 1 OF 8                                |
|-------|------------------|-----------------|-----------------|-----------------|----------|--------------------|--------------|--------|---------------|-------------|----------------------------|----------|-------|--------------------|-------------------------------------------------------|
| USE   |                  |                 |                 |                 |          |                    |              |        |               | PROJ<br>Ace | ECT<br>Services            |          |       |                    | PROJECT NO. 46118                                     |
| PROJE |                  | CATIO           | N               |                 |          | COORDI<br>N 9377   |              |        | E 10 4        | 2.45754'    | ELEVATION<br>3138.11' (msl | (DATUM)  | 240 F |                    | DATE START<br>7/13/00                                 |
| SURF  | ACE C            | DNDITI          | ONS             |                 |          | 1 9311             |              |        |               |             | LOGGED BY                  | ,        |       |                    | DATE FINIS                                            |
| Gras  | sy.              | <u>s</u>        | AMPLIN          | NG              |          |                    | CHEC         | KED    | BY            |             | G. Felkner                 | APPROVED | ) BY  |                    | 7/13/00                                               |
|       | <u>س</u> ۳       |                 |                 |                 |          | ш Å                | <b>8</b> . S |        | <u> </u>      |             |                            | B. Smith |       |                    |                                                       |
| TYPE  | SAMPLE<br>NUMBER | SET<br>B INCHES |                 | 3KD<br>B INCHES | VALUE    | SANPLE<br>Recovery | FEET         | TYPE   | ខ             |             |                            |          |       |                    |                                                       |
|       |                  |                 | CORINO          |                 | L        | <b>~</b>           | N F          | 1      | 2             | CLAS        | SIFICATION (               | DE MATER | TAL   |                    | REMARKS                                               |
| **    | RUN<br>NUMBER    | RUN<br>LENGTH   | N<br>VERY       | NO<br>VERY      | ENT VERY | ROD                | DEPTH IN     | SAMPLE | GRAPHIC LOG   | CLAG        |                            |          | ***   |                    | nemanito                                              |
| SIZE  | R R              | LE R            | RUN<br>RECOVERY | R00<br>RECOVERY | PERCENT  | RG                 | DEF          | SA     | 6             |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 1-           |        |               | Clayey S    | ILT, brown, (Lo            | ess).    |       | rotary             | advanced using<br>wash methods<br>8'' OD drag bit.    |
|       |                  |                 | ļ               |                 |          |                    | 2 —          |        |               |             |                            |          |       | Reamer             | 1 boring w/8" O                                       |
|       |                  |                 |                 |                 |          |                    | 3 —          |        |               |             |                            |          |       | drilling<br>logged | t using water a<br>fluid. Lithology<br>from cuttings. |
|       |                  |                 | 1               |                 |          |                    | 4 —          | {      |               |             |                            |          |       |                    |                                                       |
|       |                  |                 | }               |                 | }        | ļ                  | 5 —          |        |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 6 —          |        |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 7 —          | 1      |               |             |                            |          |       |                    |                                                       |
|       |                  |                 | .               |                 |          |                    | 8 —          | 1      |               |             |                            |          |       | ļ                  |                                                       |
|       |                  |                 |                 |                 |          |                    | 9<br>10      |        |               |             |                            |          |       |                    |                                                       |
|       |                  | l               |                 |                 |          |                    | 11           |        |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 12 -         |        |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 13 —         | ł      |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 14 —         | {      |               |             |                            |          |       |                    |                                                       |
|       |                  | 1               |                 |                 |          |                    | 15 —         | ł      | $\mathcal{V}$ |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 16 —         |        |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 17 —         | 1      |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 18           | 1      | $\mathbb{N}$  |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 19 —<br>20 — | ]      |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 20 —<br>21 — |        |               | CLAY, Dro   | WN.                        |          |       |                    |                                                       |
|       |                  |                 |                 |                 | i.       |                    | 22           |        |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 23 -         |        |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 | 1        |                    | 24           | l      |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 25 —         |        |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 26           |        |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 27 —         |        |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 28 —         |        |               |             |                            |          |       |                    |                                                       |
|       |                  |                 |                 |                 |          |                    | 29 —         |        |               |             |                            |          |       |                    |                                                       |

| 6              |                  |                |                 |                 |            |                    |                 | L       | )G                | OF BOF      |                                     | BORING NO<br>s          | HEET 2 OF 8            |    |
|----------------|------------------|----------------|-----------------|-----------------|------------|--------------------|-----------------|---------|-------------------|-------------|-------------------------------------|-------------------------|------------------------|----|
| USEF           | 24               | -              |                 |                 | ····· •    |                    |                 |         |                   | PROJ<br>Ace | Services                            |                         | PROJECT NO.<br>46118   |    |
| ROJE           | CT LO            | CATION<br>as   | •               |                 | C          | :00RDI<br>N 9377   | NATES<br>1.8809 | 5<br>B' | E 1041            | 12.45754    | ELEVATION (DATUM)<br>3138.11' (msi) | TOTAL DEPTH<br>240 FEET | DATE START<br>7/13/00  |    |
| Gras           | ACE CO           | NDITI          | ONS             |                 | <b>^</b>   |                    |                 |         |                   |             | LOGGED BY<br>G. Felkner             |                         | DATE FINISH<br>7/13/00 |    |
|                | · -              | ()             | AMPLIN          |                 |            |                    | CHEC<br>B. SI   | KED     | BY                |             | APPROVE<br>B. Smith                 | D BY                    |                        | 1_ |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER | SE T<br>INCHES | 2ND<br>INCHES   | 3RD<br>B INCHES | VALUE      | SAMPLE<br>Recovery |                 |         |                   | ·           |                                     |                         | ·                      | -  |
| S -            | N N              | 9              | e               |                 | >          | REC                | FEET            | TYPE    | 5 L 0G            |             |                                     |                         |                        |    |
|                | œ                |                |                 |                 | = <u>k</u> |                    | NI<br>H         | ы       | GRAPHIC           | CLAS        | SSIFICATION OF MATER                | RIAL                    | REMARKS                |    |
| SIZE           | NUMBER           | RUN<br>LENGTH  | RUN<br>RECOVERY | ROD<br>RECOVERY | PERCENT    | 800                | DEPTH IN        | SAMPLE  | GRA               |             |                                     |                         |                        | _  |
|                |                  |                |                 |                 |            |                    |                 |         |                   | Clayey S    | SAND, brown.                        |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 31 —<br>32 —    | ]       |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 33 -            |         | $\langle \rangle$ |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 34 -            | l       |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 35 —            |         |                   |             |                                     |                         |                        | -  |
|                |                  |                |                 |                 |            |                    | 38 —            |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 37 —            |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 38 —            |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 39 —            |         | 1A                |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 40 —            | 1       |                   |             |                                     |                         |                        |    |
| 1              |                  |                |                 |                 |            |                    | 41 -            |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 42 —<br>43 —    |         |                   | ·           |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 44              |         |                   | Sandy C     | LAY, brown.                         |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 45              | ļ       |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 46 —            |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            | 1                  | 47 —            |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 | i i        |                    | 48 —            |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 49              |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 50 —            |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 51 -            | 1       |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 52 —<br>53 —    |         | A                 |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 53 -<br>54      |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 54              |         |                   | Clayey S    | SAND, brown, medium graine          | d.                      |                        |    |
|                |                  |                |                 |                 |            |                    | 56 —            |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 57 —            |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 58 —            |         |                   |             |                                     |                         |                        |    |
|                |                  |                |                 |                 |            |                    | 59 —            |         |                   |             |                                     |                         |                        | -  |

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|                |                  | BL             | ACK      | s v             | EAT        | СН                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         |                                              |                       |      |                                       |
|----------------|------------------|----------------|----------|-----------------|------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|----------------------------------------------|-----------------------|------|---------------------------------------|
|                |                  | ļ              |          |                 |            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | L(          | CG      | OF BORING                                    | BORIN                 |      | 0B-2-D<br>EET 3 OF 8                  |
|                |                  |                | <u> </u> | <u></u>         |            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         | PROJECT<br>Ace Services                      |                       |      | PROJECT NO. 46118                     |
| PROJE          | CT LO            |                | N        | _               | ſ          | 00RD1              | NATES<br>7.8809                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5<br>B'     | E 104   | 12.45754' ELEVATION (DATUM<br>3138.11' (msl) | 4) TOTAL DE<br>240 FE | EPTH | DATE START<br>7/13/00                 |
| SURF .<br>Gras | ACE CC<br>Sy.    | NDITI          | ONS      |                 | -          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         | LOGGED BY<br>G. Felkner                      |                       |      | DATE FINISH<br>7/13/00                |
|                | г                | T              | AMPLIN   | <u> </u>        | T          | ~                  | CHEC<br>B. SI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | KED<br>nith | BY      | APPRC<br>B. Sn                               | OVED BY<br>muth       |      | · · · · · · · · · · · · · · · · · · · |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER | SET<br>BINCHES | a INCHES | 8 INCHES        | VALUE      | SAMPLE<br>Recovery | FEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TYPE        | 100     |                                              |                       |      |                                       |
|                | l                |                | CORING   |                 | . <u> </u> | <u> </u>           | IN FR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | וכ ר(   | CLASSIFICATION OF MAT                        | TERIAL                |      | REMARKS                               |
| CORE           | NUMBER           | RUN<br>LENGTH  | RUN      | ROD<br>RECOVERY | PERCENT    | <b>00</b> 2        | DEPTH IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SAMPLE      | GRAPHIC |                                              |                       |      |                                       |
|                |                  |                |          |                 |            |                    | 61 - 62 - 63 - 62 - 63 - 64 - 65 - 66 - 67 - 68 - 67 - 68 - 67 - 71 - 72 - 73 - 71 - 72 - 73 - 74 - 73 - 74 - 75 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 77 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 - |             |         | Sandy CLAY, brown.                           | aned.                 |      |                                       |

| Supplementation         BORING NO. 08-2-D<br>SHEET 4 0F 8           CLIENT         PROACT<br>Ace Serves         PROACT<br>Ac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |         |              |       | <u> </u> |       |          |              |             |                |          |                    |              | · ·    |      |             | - |
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| CLIENT         PROJECT NO.           USERATION         COORDNATES         E 1042 4574         E13281110N (IGUTUM)         TOTAL DEPTH         0.615 51ABT           SUPFACE CONDITIONS         COORDNATES         E 1042 4574         E13281110N (IGUTUM)         TOTAL DEPTH         0.615 51ABT           SUPFACE CONDITIONS         COORDNATES         E 1042 4574         E13281110N (IGUTUM)         TOTAL DEPTH         0.615 51ABT           SUPFACE CONDITIONS         COORDNATES         COORDNATES         COORDNATES         E1042 4574         B Senth         0.75 500 70.0000           SUPFACE CONDITIONS         CHECKED BY         LOGGED BY         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.0000         0.75 500 70.00000         0.75 500 70.00000         0.75 500 70.00000         0.75 500 70.00000         0.75 500 70.00000         0.75 500 70.00000         0.75 500 70.00000         0.75 500 70.00000         0.75 500 70.00000         0.75 500 70.00000         0.75 500 70.00000         0.75 500 70.00000         0.75 500 70.000000         0.75 500 70.0000000         0.75 500 70.0000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            | ₹       | BL           | ACK   | 5 V      | EAT   | CH       |              | L(          | DG             | OF BOF   | RING               |              | BORIN  |      |             |   |
| PEDECT LOGATION<br>CORDINATES<br>CODY, Kanson         COORDINATES<br>N 0377 88089         E 104/2 A5754''         State 1 (main)<br>Support (main)         TOTAL DEPT<br>PELECT         PATE START<br>PATE START           SUPPORT CONVINTOR<br>Crassy         SAMPLING         Image: Convince main of the start<br>start of the start of th                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CLIEN      | ŧT      |              |       |          |       | _        |              |             |                | PRO.     | ECT                | <u> </u>     |        |      | PROJECT NO. |   |
| Color, Kanasa       N 9377 88098       E (04/2.45754*       1318.1" (mai)       240 FEET       7/13/00       F         SMPFACE CONDITIONS       Construct       Logged By       APPROVED BY       APPROVED BY       7/13/00       F         WM       WM       WM       WM       WM       WM       MAPPROVED BY       APPROVED BY       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F       F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | USEF       | PA      |              | N     |          | Īr    | 00801    | NATES        | <u>.</u>    |                | Ace      | ELEVATION          | N (DATUM)    |        | EPTH | 46118       | l |
| C reasy.       SAMPLING       [C.Fekner       [7/13/00]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Colb       | y, Kans | as           |       |          |       | N 937    | 7.8809       | 8.          | E 104          | 12.45754 | <u>3138.11' (m</u> | ISI)         | 240 FE | ET   | 7/13/00     | - |
| U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |         |              |       |          |       |          | <b>.</b>     |             |                |          | G. Felkner         |              |        |      | 7/13/00     |   |
| U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |         | T            | T     |          |       |          | CHEC<br>B. S | KED<br>mith | BY             |          |                    |              | ) BY   |      |             | - |
| U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U         U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TYPE       | SAMPLE  | INCHE        | N.N.  | R MON    | VALUE | SAMPLE   | ET           | Ŵ           | g              |          |                    |              |        |      |             |   |
| 2       3       2       2       3       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |         | •            |       | 1        |       | <u> </u> | N F          | 14          |                |          |                    |              | • • •  |      | 0544.040    |   |
| 2       3       2       2       3       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ψu         | R R     | I            | -     |          | ENT   |          | TH           | MPLE        | APHI           |          | SIFICATION         | OF MATER     | IAL    |      | REMARKS     |   |
| 91       91         92       93         93       94         95       96         97       98         97       98         98       Clayey SANO. brown. medum graned.         99       100         101       102         102       103         104       105         106       107         107       108         108       109         107       108         108       101         107       108         108       101         107       108         108       101         107       108         108       101         109       101         101       113         113       114         115       116         116       117         118       118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COR<br>SIZ | NUR BUN | LENG<br>LENG | RECOV | RECOV    | RECOV | 102      | DEP          | SA          | GR             |          |                    |              |        |      |             | - |
| 92 -         93 -         94 -         95 -         96 -         97 -         98 -         99 -         100 -         101 -         102 -         103 -         104 -         105 -         106 -         108 -         109 -         109 -         101 -         102 -         103 -         104 -         105 -         108 -         109 -         109 -         110 -         111 -         112 -         113 -         114 -         115 -         116 -         117 -         118 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |         |              |       |          |       | 1        | 01           | <u> </u>    | $\overline{V}$ |          |                    |              |        |      |             |   |
| Sandy CLAY, Drown.<br>94 -<br>95 -<br>98 -<br>97 -<br>98 -<br>99 -<br>100 -<br>100 -<br>101 -<br>102 -<br>103 -<br>104 -<br>105 -<br>108 -<br>107 -<br>108 -<br>108 -<br>107 -<br>108 -<br>10 |            |         |              |       |          |       |          |              | ]           |                |          |                    |              |        |      |             |   |
| 94       -         96       -         97       -         98       -         101       -         102       -         103       -         104       -         105       -         106       -         107       -         108       -         110       -         111       -         112       -         113       -         114       -         115       -         116       -         117       -         118       -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |         |              |       |          |       |          |              |             |                |          |                    |              |        |      |             |   |
| 96 -         97 -         98 -         99 -         100 -         101 -         102 -         103 -         104 -         105 -         108 -         109 -         101 -         102 -         103 -         104 -         105 -         108 -         109 -         101 -         111 -         112 -         113 -         114 -         115 -         116 -         117 -         118 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |         |              |       |          |       |          | 94 -         |             |                | SandyL   | LAT, Drown.        |              |        |      |             |   |
| 97 -         98 -         99 -         100 -         101 -         102 -         103 -         104 -         105 -         108 -         109 -         109 -         110 -         110 -         110 -         110 -         110 -         110 -         110 -         111 -         112 -         113 -         114 -         115 -         116 -         117 -         118 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |         |              |       |          |       |          | 95 —         |             |                |          |                    |              |        |      |             | _ |
| 98 -<br>99 -<br>100 -<br>101 -<br>102 -<br>103 -<br>104 -<br>105 -<br>106 -<br>107 -<br>108 -<br>109 -<br>110 -<br>111 -<br>112 -<br>113 -<br>114 -<br>115 -<br>116 -<br>116 -<br>117 -<br>118 -<br>118 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |         |              |       |          |       |          | 96 -         |             |                |          |                    |              |        |      |             |   |
| Clayey SANU, brown, medum graned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |         |              |       |          |       |          | 97 —         |             |                |          |                    |              |        |      |             | - |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |         |              |       |          |       |          |              | 1           |                | Clayey   | AND, brown; m      | edium graine | d.     |      |             |   |
| $ \begin{array}{c} 101 - \\ 102 - \\ 103 - \\ 104 - \\ 105 - \\ 106 - \\ 107 - \\ 108 - \\ 109 - \\ 109 - \\ 110 - \\ 112 - \\ 112 - \\ 113 - \\ 114 - \\ 115 - \\ 116 - \\ 117 - \\ 118 - \\ \end{array} $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |         |              |       |          |       |          |              |             |                |          |                    |              |        |      |             |   |
| 102<br>103<br>104<br>105<br>108<br>108<br>108<br>109<br>109<br>110 -<br>110 -<br>112 -<br>113 -<br>114 -<br>115 -<br>116 -<br>116 -<br>116 -<br>117 -<br>118 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |         |              |       |          |       |          |              | ]           |                |          |                    |              |        |      |             |   |
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| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |         |              |       |          |       |          | 105 —        | •           |                |          |                    |              |        |      |             |   |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |         |              |       |          |       |          | 106 —        |             |                |          |                    |              |        |      |             |   |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |         |              |       |          |       |          |              |             |                |          |                    |              |        |      | 1           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |         |              |       |          |       |          |              |             |                |          |                    |              |        |      |             |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |         |              |       |          |       |          | ł            | 1           |                |          |                    |              |        |      |             |   |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |         |              |       |          |       |          |              | ]           |                |          |                    |              |        |      |             |   |
| 113<br>114<br>115<br>116<br>117<br>118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |         |              |       |          |       |          |              | ]           |                |          |                    |              |        |      |             |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |         |              |       |          |       |          |              | 1           |                |          |                    |              |        |      |             |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |         |              |       |          |       |          |              |             |                |          |                    |              |        |      |             |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |         |              |       |          |       |          | 115 —        |             |                |          |                    |              | i      |      |             |   |
| 118 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |         |              |       |          |       |          | 116 —        |             |                |          |                    |              | ,      |      |             |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |         |              |       |          |       |          | 117 —        | 1           |                |          |                    |              |        |      |             |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |         |              |       |          |       |          |              |             |                |          |                    |              |        |      |             |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |         |              |       |          |       |          | 119 —        |             |                |          |                    |              |        |      |             |   |

| CLIEN<br>USEP  |                  | · ·           |          |                 |          |                    |                  |        |             | PROJE    | ING<br>ECT<br>Services         | <u> </u> |          |            | ET 5 OF<br>PROJECT<br>46118 |
|----------------|------------------|---------------|----------|-----------------|----------|--------------------|------------------|--------|-------------|----------|--------------------------------|----------|----------|------------|-----------------------------|
| PROJE          |                  | CATIO         | N        |                 | c        | 00RD               | NATES<br>7.88098 | · •    | = 10.41     | 2.45754' | ELEVATION (I<br>3138.11' (msl) | DATUM)   | TOTAL DE | EPTH<br>FT | DATE STA<br>7/13/00         |
| SURF           | ACE CO           | NDITI         | ONS      |                 |          |                    | 1.00090          |        |             |          | LOGGED BY                      |          | 1 240 72 |            | DATE FIN<br>7/13/00         |
| Gras           | <u>sy</u> .      | s             | AMPLIN   | IG              |          |                    | СНЕСК            | EDI    | BY          |          | G. Felkner                     | APPROVED | BY       |            | //13/00                     |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER | 8 INCHES      | 8 INCHES | B INCHES        | VALUE    | SAMPLE<br>RECOVERY | B.Sm<br>⊢        |        |             |          |                                | B. Smith |          |            |                             |
| SA             | NS D             |               | A        |                 | <b>_</b> | R SAI              | FEET             | TYPE   | GRAPHIC LOG |          |                                |          |          |            |                             |
|                | ~                |               |          | ·               |          |                    | I.<br>I          | שר     | HIC         | CLAS     | SIFICATION O                   | F MATERI | AL       | F          | REMARKS                     |
| CORE           | RUN<br>NUMBER    | RUN<br>LENGTH | RUN      | ROD<br>RECOVERY | PERCENT  | ROO                | DEPTH            | SAMPLE | GRA         |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 121 -            |        |             |          |                                |          |          |            |                             |
|                |                  |               | 1        |                 |          |                    | 122 -            | 1      |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 123 —            |        |             |          |                                |          |          |            |                             |
|                |                  |               | }        |                 |          |                    | 124 -            | ł      |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 125 —            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 126              |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 128 -            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 129              |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 130 —            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 131 —            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 132              |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 134 -            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 135 —            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 136 —            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 137              |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 138 —<br>139 —   |        |             | Sandy CL | AY; brown.                     |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 140 -            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 141              |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 142 —            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 143 —            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 144 —<br>145 —   |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 145 -            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 147 —            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 | Í        |                    | 148 —            |        |             |          |                                |          |          |            |                             |
|                |                  |               |          |                 |          |                    | 149 —            | ļ      | 11/         |          |                                |          | ļ        |            |                             |

|                |                  | BL              | ACK      | s v             | EAT     | СН                 |                |        |         |                                                                             |
|----------------|------------------|-----------------|----------|-----------------|---------|--------------------|----------------|--------|---------|-----------------------------------------------------------------------------|
|                |                  |                 |          |                 |         |                    |                | LC     | )G      | OF BORING OF BORING OF BORING                                               |
| CLIEN          | T<br>'A          |                 |          |                 |         |                    |                |        |         | PROJECT PROJECT NO.<br>Ace Services 46118                                   |
|                | CT LO            | CATIO           | N        |                 | C       | 00RD1              | NATES<br>8809  | B.     | E 104   | ELEVATION (DATUM) TOTAL DEPTH DATE START<br>3138.11' (msl) 240 FEET 7/13/00 |
| SURF A         |                  |                 | ONS      |                 |         |                    |                |        |         | LOGGED BY DATE FINISH<br>G. Felkner 7/13/00                                 |
|                |                  | r               | AMPLIN   | r               |         |                    | CHEC           | KED    | BY      | APPROVED BY<br>B. Smith                                                     |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER | SET<br>6 INCHES | 0 INCHES | B INCHES        | VALUE   | SAMPLE<br>RECOVERY | FEET           | ТүрЕ   | L06     |                                                                             |
|                |                  |                 |          |                 |         | Γ                  | Z              |        | HIC     | CLASSIFICATION OF MATERIAL REMARKS                                          |
| CORE           | RUN<br>NUMBER    | RUN<br>LENGTH   | RECOVERY | ROD<br>RECOVERY | PERCENT | <b>80</b>          | DEPTH IN       | SAMPLE | GRAPHIC |                                                                             |
|                |                  |                 |          |                 |         |                    | 151 —          |        |         | Clayey SAND, brown.                                                         |
|                |                  |                 |          |                 |         | ĺ                  | 152 -          |        |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 153 —          | ļ      |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 154 -          | 1      |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 155 —          |        |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 158 —          |        |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 157 —          | ł      |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 158 —          | 1      |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 159 —<br>160 — |        |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 161            |        |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 162 -          |        |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 163 —          |        |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 184 -          |        |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 165 —          | ł      | 000     | Gravelly SAND; brown.                                                       |
|                |                  |                 |          |                 |         |                    | 166 —          |        |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 167 —          | 1      |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 168 —          | 1      | 000     |                                                                             |
|                |                  |                 |          |                 |         |                    | 169 -          | 1      | 000     |                                                                             |
|                |                  |                 |          |                 |         |                    | 170 —          | ]      |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 171            |        | 000     |                                                                             |
|                |                  |                 |          |                 |         |                    | 173 -          |        |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 174 -          | ł      | ///     | Sandy CLAY, brown, w/trace gravel.                                          |
|                |                  |                 |          |                 | ļ       |                    | 175 —          |        |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 176 —          | {      |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 177 -          |        |         |                                                                             |
|                |                  |                 |          |                 |         | ļ                  | 178 —          | ł      |         |                                                                             |
|                |                  |                 |          |                 |         |                    | 179 —          | 1      |         |                                                                             |

|                                    |          |                   |                 |                     |                    |                                                                                                                                                                                                                                                                                                                                                                             | LC             | G OF BO         | JECT          |          | BORING N                              | NO. OB-2-D<br>SHEET 7 OF 8<br>PROJECT NO. |
|------------------------------------|----------|-------------------|-----------------|---------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|---------------|----------|---------------------------------------|-------------------------------------------|
| PROJECT LO                         | LOCATION |                   |                 |                     | OORD               | INATES                                                                                                                                                                                                                                                                                                                                                                      |                |                 | ELEVATION     | (DATUM)  | TOTAL DEPT<br>240 FEET                | 46118<br>H DATE START                     |
| Colby, Kans                        |          | NS                |                 |                     | N 937              | 7.88098                                                                                                                                                                                                                                                                                                                                                                     | <u>в.    Е</u> | 10412.45754     | 3138.11' (ms) | )        | 240 FEET                              | 7/13/00<br>DATE FINISH<br>7/13/00         |
| Grassy.                            | SA       | MPLING            | 3               |                     |                    | CHECK                                                                                                                                                                                                                                                                                                                                                                       |                |                 | G. Felkner    | APPROVE  | D BY                                  | 7/13/00                                   |
| SANPLE<br>TYPE<br>Sanple<br>Number | INCHES   | 8 INCHES          | 380<br>INCHES   | N<br>VALUE          | SAMPLE<br>Recovery | B.Sn<br>⊢                                                                                                                                                                                                                                                                                                                                                                   |                |                 |               | B. Smith | · · · · · · · · · · · · · · · · · · · |                                           |
| SAL SA                             |          |                   | ~ <u>8</u>      | × ×                 | RECK               | FEET                                                                                                                                                                                                                                                                                                                                                                        | ТҮРЕ           | 901             |               |          |                                       |                                           |
| CORE<br>SIZE<br>RUN<br>MUMBER      |          | URING<br>AUSACOAU | ROD<br>Recovery | PERCENT<br>RECOVERY | R00                | DEPTH IN                                                                                                                                                                                                                                                                                                                                                                    | SAMPLE         | GRAPHIC GRAPHIC | SSIFICATION   | OF MATER | IAL                                   | REMARKS                                   |
|                                    |          |                   |                 |                     |                    | 181         182         183         184         185         186         187         188         189         189         189         190         191         192         193         194         195         196         197         198         199         200         201         202         203         204         205         206         207         208         209 |                | Ciayey          | SAND, Drown.  |          |                                       |                                           |

| CLIENT PROJECT PRO       |                  |               |                 |                 |         |                    |                |            |           |                                |                                 |                    |     | 08-2-D<br>HEET 8 OF 8<br>PROJECT NO.<br>46118 |                             |  |
|--------------------------|------------------|---------------|-----------------|-----------------|---------|--------------------|----------------|------------|-----------|--------------------------------|---------------------------------|--------------------|-----|-----------------------------------------------|-----------------------------|--|
| PROJECT LOCATION COORDIN |                  |               |                 |                 |         | NATES<br>.88098    |                | E 104      | 12.45754' | ELEVATION (1<br>3138.11' (msl) |                                 |                    |     | DATE START<br>7/13/00                         |                             |  |
| URF                      | ACE CO           | DNDITI        | ONS             |                 | L       |                    |                | <i>,</i> ( |           |                                | LOGGED BY                       |                    |     | <b>-</b> ·                                    | DATE FINISH                 |  |
| 5ras:                    | sy.              | S             | AMPLIN          | NG              |         |                    | CHEC           | KED        | BY        | · .                            | <u> </u>                        | G. Felkner 7/13/00 |     |                                               |                             |  |
| <u> </u>                 |                  |               |                 | 5               | A.E.R.Y | B. Sr              | nith<br>I      | T          |           | B. Smith                       |                                 |                    |     |                                               |                             |  |
| JYPE<br>1YPE             | SAMPLE<br>NUMBER | 0 NC          | N 01<br>9 IV    | 3RD<br>B INCHES | VALUE   | SAMPLE<br>RECOVERY | FEET           | ТҮРЕ       | L OG      |                                |                                 |                    |     |                                               |                             |  |
|                          | r                | 4<br>+        |                 | -               | r       | +                  | z.             | i<br>u     |           | CLAS                           | SIFICATION 0                    | F MATER            | IAL |                                               | REMARKS                     |  |
| SIZE                     | RUN              | RUN<br>LENGTH | RUN<br>RECOVERY | ROO<br>RECOVERY | PERCENT | 002                | DEPTH IN       | SAMPLE     | GRAPHIC   |                                | -                               |                    |     |                                               |                             |  |
| 5 15                     | ž                | a a           | RECO            | RECO            | RECO    | Ē                  | ÖE             | တိ         | Ū         |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 211            |            |           |                                | _                               |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 212            |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 213 -          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 214 —          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 215 —          |            |           | CLAY; Dr                       |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 216            |            |           | CLAT, DI                       |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 | [       |                    | 217 —          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 218 —          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 219 —          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 220 —          |            |           | Gravelly                       | SAND, brown.                    |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 221 —          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 222            |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 223 —          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 22 <b>4</b> —  |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               | 1               |                 |         |                    | 225 —          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 226            |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 227 —          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 228 —          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 229            |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 230 -          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 231 -          |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 232 —<br>233 — |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 233 —<br>234 — |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               | ł               |                 |         |                    | 234 -          |            |           | SHALE,<br>(Pierre              | greenish-gray, th<br>Shale Fm). | in bedded          |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 235 —<br>236 — |            |           |                                |                                 |                    |     |                                               |                             |  |
|                          |                  |               |                 |                 |         |                    | 230            |            |           |                                |                                 |                    |     | ~4000 ¢                                       | gallons water               |  |
|                          |                  |               |                 |                 |         |                    | 238 -          |            |           |                                |                                 |                    |     | used du                                       | ing drilling.               |  |
|                          |                  |               | İ               |                 |         |                    | 239            |            |           |                                |                                 |                    |     | Water le                                      | of boring @ 240<br>vel_not  |  |
|                          |                  |               |                 |                 |         |                    |                |            |           |                                |                                 |                    |     | recorde<br>installed                          | d. Extraction w<br>7/13/00. |  |

| CLIENT                   |                                     |                           |                 |         |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LO       | G OF BOR                              | ECT                         |            |         |                                                         | EX-2-S<br>HEET 1 OF 1<br>PROJECT NO. |
|--------------------------|-------------------------------------|---------------------------|-----------------|---------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------|-----------------------------|------------|---------|---------------------------------------------------------|--------------------------------------|
| USEPA                    | T LOCATIO                           | TION                      |                 |         | COORDI             | NATES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | · · · · · · · · · · · · · · · · · · · | Services<br>ELEVATION (     | DATUM)     | TOTAL D | ЕРТН                                                    | 46118<br>DATE START                  |
| Colby, Ka<br>SURFACE     | Kansas<br>CE CONDITI                |                           |                 |         | N 944              | 9.78932                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | E        | 10336.29564'                          | 3142.13' (msi)<br>LOGGED BY | )          | 13 5 FE | ET                                                      | 7/11/00<br>DATE FINISH               |
| Grassy.                  | 1                                   | SAMPLI                    | NG              |         |                    | СНЕСК                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                                       | G. Felkner                  | APPROVED   | BY      |                                                         | 7/11/00                              |
| SAMPLE<br>TYPE<br>SAMPLE | SAMPLE<br>NUMBER<br>SET<br>6 INCHES |                           |                 | VALUE   | SAMPLE<br>RECOVERY | B.Sm<br>O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ith<br>T | ····                                  |                             | B. Smith   |         |                                                         |                                      |
|                          |                                     | CORIN                     |                 |         | <u>م</u>           | FT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |                                       | CIE I C I T I ON O          |            |         |                                                         |                                      |
| CORE<br>SIZE<br>RUN      | RUN<br>NUMBER<br>RUN<br>LENGTH      | LENGTH<br>RUN<br>RECOVERY | ROD<br>RECOVERY | PERCENT | Roo                | DEPTH IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SAMPLE   | CLAS                                  | SIFICATION O                | F MAIERI   | AL      |                                                         | REMARKS                              |
|                          |                                     |                           |                 |         |                    | 1 - 2 - 3 - 4 - 3 - 4 - 5 - 6 - 7 - 6 - 7 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 115 - 116 - 117 - 118 - 116 - 117 - 118 - 119 - 120 - 121 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 1 |          | Undiffere<br>log for E                | ntiated Overburg            | den (See t | poring  | ~4,000<br>used dur<br>Bottom c<br>Water let<br>recorded | 1.<br>Ia well installed              |

· · —

| USEF                                                   |                                                                        |                  |          |                                                                                                                |  |                    |                                                           | PROJECT<br>Ace Services |         |                            |                  |                           |                                      |                        |                                                                                                          | PROJECT NO.<br>46118                                                                          |  |
|--------------------------------------------------------|------------------------------------------------------------------------|------------------|----------|----------------------------------------------------------------------------------------------------------------|--|--------------------|-----------------------------------------------------------|-------------------------|---------|----------------------------|------------------|---------------------------|--------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--|
| ROJECT LOCATION COORDINAT<br>Colby, Kansas N 9441.9171 |                                                                        |                  |          |                                                                                                                |  |                    |                                                           |                         | 10347   | .99760'                    |                  | ELEVATION<br>3141.30' (ms | (DATUM) TOTAL DEPTH<br>si) 20.0 FEET |                        |                                                                                                          | DATE START<br>7/11/00                                                                         |  |
|                                                        |                                                                        | NDITI<br>halt Ro |          |                                                                                                                |  | •                  |                                                           | LOGGED BY<br>G. Felkner |         |                            |                  |                           |                                      | DATE FINISH<br>7/11/00 |                                                                                                          |                                                                                               |  |
|                                                        | r -                                                                    | T                | AMPLIN   | · · · · · · · · · · · · · · · · · · ·                                                                          |  | Γ.                 | CHECI<br>B. Sr                                            | KED                     | BY      |                            | 1                |                           | APPROVED BY<br>B Smith               |                        |                                                                                                          |                                                                                               |  |
| TYPE                                                   | SAMPLE<br>SAMPLE<br>NUMBER<br>SET<br>8 INCHES<br>8 INCHES              |                  | 8 INCHES | 8 INCHES<br>8 INCHES<br>8 INCHES<br>8 INCHES<br>8 INCHES<br>8 INCHES                                           |  | SAMPLE<br>RECOVERY | FT (x10)                                                  | TYPE                    | L0G     |                            |                  |                           |                                      |                        |                                                                                                          |                                                                                               |  |
| SIZE                                                   | SIZE<br>RUN<br>RUN<br>RUN<br>LENGTH<br>LENGTH<br>RUN<br>RECOVERY NILOD |                  |          | the second s |  | RQO                | DEPTH IN F                                                | SAMPLE                  | GRAPHIC | CLASSIFICATION OF MATERIAL |                  |                           |                                      | REMARKS                |                                                                                                          |                                                                                               |  |
|                                                        |                                                                        |                  |          |                                                                                                                |  |                    | 1 - 2 - 3 - 4 - 5 - 6 - 7 - 6 - 7 - 6 - 7 - 6 - 7 - 7 - 7 |                         |         | Und<br>log                 | iffere<br>for E) | htiated Overbur<br>(-2-D) | rden (See t                          | Doring                 | rotary 1<br>w/7%" (C<br>Reamed<br>drag bil<br>Bentoni<br>drilling f<br>arilling f<br>water le<br>recorde | gallons of water<br>ring drilling.<br>of Doring @ 200<br>evel not<br>id.<br>ng well installed |  |

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| CLIENT<br>USEPA                                             | PROJEC<br>Ace Se                            | ervices                                                                              | PROJECT NO. 46118                                                                                                                 |
|-------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| PROJECT LOCATION<br>Colby, Kansas                           | COORDINATES<br>N 9434.31623' E 10358.43995' | ELEVATION (DATUM)TOTAL DEPTH3140.50' (msi)240 FEET                                   | DATE START<br>7/10/00                                                                                                             |
| SURFACE CONDITIONS<br>Grassy.                               |                                             | OGGED BY<br>G. Felkner                                                               | DATE FINISH<br>7/10/00                                                                                                            |
| SAMPLING                                                    | CHECKED BY                                  | APPROVED BY                                                                          |                                                                                                                                   |
|                                                             |                                             | B. Smith                                                                             |                                                                                                                                   |
| CONE SIZE SIZE SIZE RUN |                                             | IFICATION OF MATERIAL                                                                | REMARKS                                                                                                                           |
|                                                             |                                             | T, brown, non-plastic,<br>w/7%"<br>Reamed<br>drag bi<br>Benton<br>drilling<br>logged | advanced using<br>wash methods<br>DD drag bit.<br>boring w/12" OD<br>t using<br>te/water as<br>fluid. Lithology<br>from cuttings. |

|                | ₹                | BL            | ACK             | V 3             | EAT        | СН                 |                  | 1.0       | ገር      | OF BORING OF BORING BORING BORING SHEET 2 OF 8                                                                                       |
|----------------|------------------|---------------|-----------------|-----------------|------------|--------------------|------------------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------|
|                |                  |               | ·               |                 |            |                    |                  |           | 56      |                                                                                                                                      |
| CLIEN<br>USEI  | 21<br>2 <b>4</b> |               |                 |                 |            |                    |                  |           |         | Ace Services 46118                                                                                                                   |
|                | CT LO<br>y, Kans | CATIO<br>as   | N               |                 | C          | 00RD1              | NATES<br>4.31623 | 5<br>5' E | E 1035  | ELEVATION (DATUM)         TOTAL DEPTH         DATE START           58.43995'         3140.50' (msi)         240 FEET         7/10/00 |
| SURF.<br>Gras  |                  | DITION        | ONS             |                 | • •        |                    |                  | _         |         | LOGGED BY DATE FINISH<br>G. Felkner 7/10/00                                                                                          |
| 0183           |                  | S             |                 | NG              | <b>.</b>   |                    | СНЕС             |           | BY      | APPROVED BY                                                                                                                          |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER | SET<br>INCHES | NCHES           | B INCHES        | VALUE      | SAMPLE<br>Recovery | B. Sr            | Γ         | T       | B. Smith                                                                                                                             |
| AN SA          | NAS N            | 9 XX          | ₹ <u>₹</u>      | ** <u>*</u>     |            | RECO               | FEET             | TYPE      | 100     |                                                                                                                                      |
|                | ŕ                | 1             |                 | -               |            |                    | L Z              |           |         | CLASSIFICATION OF MATERIAL REMARKS                                                                                                   |
| CORE           | RUN<br>NUMBER    | RUN<br>LENGTH | RUN<br>RECOVERY | ROD<br>RECOVERY | PERCENT    | 80<br>00           | DEPTH            | SAMPLE    | GRAPHIC |                                                                                                                                      |
|                |                  | <u> </u>      |                 | <u> </u>        | - <u>-</u> |                    | <u> </u>         | <u> </u>  | 000     | Gravelly SAND, brown, medium grained,                                                                                                |
|                |                  |               |                 |                 |            |                    | 31 -             | 1         |         | some clay.                                                                                                                           |
|                |                  |               |                 |                 |            |                    | 32 -             | 1         |         | g   1                                                                                                                                |
|                |                  |               |                 |                 |            |                    | 33 -             | 1         |         | a (                                                                                                                                  |
|                |                  |               |                 |                 |            |                    | 34 -<br>35 -     | ]         |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 36 -             |           |         |                                                                                                                                      |
| l              |                  |               |                 |                 |            |                    | 37 -             |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 38 —             |           |         | 4<br>9                                                                                                                               |
|                |                  |               |                 |                 |            |                    | 39 –             |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 40               |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 41 -             |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 42               |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 43 -             | 1         |         | Sandy CLAY, brown.                                                                                                                   |
|                |                  |               |                 |                 |            |                    | 44<br>45         |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 45 -             |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 47 -             |           |         |                                                                                                                                      |
| I              |                  |               |                 |                 |            |                    | 48 -             |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 49 —             |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 50 —             |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 51 —             |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 52 —             |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 53 -             | 1         |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 54 —<br>55 —     | ]         |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 55 —<br>56 —     |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 57 —             |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 58 -             |           |         |                                                                                                                                      |
|                |                  |               |                 |                 |            |                    | 59 —             |           |         | т   т                                                                                                                                |
|                |                  |               |                 |                 |            |                    |                  | l l       | V//     | 1                                                                                                                                    |

| - |                 | 3                | BL             | ACK             | & V             | EAT                 | СН                 |                                                                                                                                                          | LC     | )G      | OF BOR       | ING                       |                      | BORING   |           | EX-2-D<br>EET 3 OF 8   |
|---|-----------------|------------------|----------------|-----------------|-----------------|---------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|--------------|---------------------------|----------------------|----------|-----------|------------------------|
|   | CLIEN<br>USEP   | T<br>A           |                |                 |                 |                     |                    |                                                                                                                                                          |        |         | PROJE<br>Ace | ECT<br>Services           |                      |          |           | PROJECT NO.<br>46118   |
| r | PROJE           | CT LOC           |                | 1               |                 | C                   | 00RD1              | NATES<br>4.31623                                                                                                                                         | · E    | 1035    | 58.43995     | ELEVATION<br>3140.50' (ms | (DATUM)<br>si)       | TOTAL DE | PTH<br>ET | DATE START<br>7/10/00  |
|   | SURF A<br>Grass | CE CO            |                | ONS             |                 |                     |                    |                                                                                                                                                          |        |         |              | LOGGED BY<br>G. Felkner   |                      |          |           | DATE FINISH<br>7/10/00 |
|   |                 | _                |                | AMPLIN          |                 |                     |                    | CHECH<br>B. Sn                                                                                                                                           | KED (  | 3Y      | 4            |                           | APPROVED<br>B. Smith | ) BY     |           | <b></b>                |
|   | SAMPLE<br>TYPE  | SAMPLE<br>NUMBER | SE 1<br>INCHES | 2ND<br>INCHES   | BRD<br>B INCHES | VALUE               | SAMPLE<br>RECOVERY | h                                                                                                                                                        | Γ      | IJ      |              |                           |                      |          |           |                        |
| - | S               | νΞ               | •              |                 |                 |                     | <u>ه</u> نې        | N FEET                                                                                                                                                   | TYPE   | כ רספ   |              |                           |                      | Í        |           |                        |
|   | CORE            | RUN<br>NUMBER    | RUN            | RUN<br>RECOVERY | ROD<br>RECOVERY | PERCENT<br>RECOVERY | RgO                | DEPTH IN                                                                                                                                                 | SAMPLE | GRAPHIC | CLAS         | SIFICATION (              | OF MATER             |          |           | REMARKS                |
|   |                 |                  |                | č               | č               |                     |                    | 61 - 62 - 63 - 62 - 63 - 64 - 65 - 66 - 67 - 68 - 68 - 67 - 68 - 67 - 71 - 72 - 73 - 71 - 72 - 73 - 71 - 72 - 73 - 71 - 75 - 71 - 75 - 71 - 71 - 71 - 71 |        |         |              | AY, brown.                | edium graine         | 2d.      |           |                        |
| - |                 |                  |                |                 |                 |                     |                    | 84<br>85<br>86<br>87<br>88<br>89                                                                                                                         |        |         |              |                           |                      |          |           |                        |

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| L IEN<br>JSEP | T<br>A           |               |               |                 |         |                    |                  |        |            |          | JECT<br>Services |                         |                     |          | PROJECT NO.<br>46118  |
|---------------|------------------|---------------|---------------|-----------------|---------|--------------------|------------------|--------|------------|----------|------------------|-------------------------|---------------------|----------|-----------------------|
| ROJE          |                  | CATION        | •             |                 | С       | 00RD1<br>N 9434    | NATES<br>4.31623 |        | 1035       | 3.43995' | ELEVAT           | ION (DATUM)<br>O' (msi) | TOTAL DE<br>240 FEE | РТН<br>Т | DATE START<br>7/10/00 |
|               | CE CO            | NDITIO        | ONS           |                 | 4       |                    |                  |        |            |          |                  | 3Y                      |                     |          | DATE FINISH           |
|               |                  |               | AMPLIN        |                 |         | <u> </u>           | CHECI<br>B. Sr   | KED I  | BY         |          | 1                | APPROV<br>B. Smi        |                     | ł        |                       |
| TYPE          | SAMPLE<br>NUMBER | SET           | 2ND<br>INCHES | 3RD<br>B INCHES | VALUE   | SAMPLE<br>Recovery |                  | I      | 6          |          |                  |                         |                     |          |                       |
|               | ω <u>Σ</u>       | 6             |               |                 |         | ۶Ā                 | V FEET           | ТҮРЕ   | C 1 0G     |          |                  |                         |                     |          |                       |
| Ē             | ER -             |               |               |                 | ERY     |                    | DEPTH IN         | SAMPLE | GRAPHIC    | CLAS     | SSIFICAT         | ION OF MAT              | ERIAL               | R        | EMARKS                |
| SIZE          | RUN<br>NUMBER    | RUN<br>LENGTH | RUN           | ROO<br>RECOVERY | PERCENT | R00                | DEP              | SAI    | B          |          |                  |                         |                     |          |                       |
| -             |                  |               |               |                 |         |                    | 91 —             |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 92 —             |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 93 —             |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 94 —             |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 95 —             |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 96 —             |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 97 —             |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 98 —             |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 99 —             |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 100              |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 101 —<br>102 —   |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 102 -            |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 104 -            |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 105 -            |        | 4          | Gravelly |                  | ND: medium or:          | med                 |          |                       |
|               |                  |               |               |                 |         |                    | 106 —            |        |            | some cla | iy.              | wn; medium gra          | inieu,              |          |                       |
|               |                  |               |               |                 |         |                    | 107 —            |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 108 —            |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 109 —            |        |            |          |                  |                         |                     |          |                       |
| i             |                  |               |               |                 |         |                    | 110 —            |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 111 —            |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 112 —            |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 113 -            |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 114 —<br>115 —   |        | <b>`</b> , |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 115 -            |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 117 -            |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 | . 1     |                    |                  |        |            |          |                  |                         |                     |          |                       |
|               |                  |               |               |                 |         |                    | 118 —            |        |            |          |                  |                         |                     |          |                       |

|               |                                 |                 |          |                 |         |                    |                   | LC       | )G (              | OF BOR    | ING                            | _          | BORING             | NO. EX          |
|---------------|---------------------------------|-----------------|----------|-----------------|---------|--------------------|-------------------|----------|-------------------|-----------|--------------------------------|------------|--------------------|-----------------|
| CL IEP<br>USE | NT<br>PA                        |                 |          |                 |         |                    |                   |          |                   | PROJ      | ECT<br>Services                |            |                    | PR(             |
| PROJE         | _                               |                 | N        |                 | 0       |                    | INATES<br>4.31823 |          | 1035              | 8.43995'  | ELEVATION (D<br>3140.50' (msl) | ATUM)      | TOTAL DE<br>240 FE | PTH DA<br>ET 7/ |
| SURF          | ACE CO                          |                 | ONS      |                 |         | 1 843              | 4.31023           |          | 1035              |           | LOGGED BY                      |            | 240 FEE            | DA              |
| Gras          | <u>sy</u> .                     | s               | AMPLIN   | IG              |         |                    | СНЕСИ             |          | BY                |           | G Felkner                      |            | ) BY               |                 |
| س             | ы<br>Ш<br>Ш<br>Ш<br>Ш<br>Ш<br>Ш | HES HE          | ES_0     | 0<br>HES        |         | PLE                | B. Sr             | nith<br> | []                |           |                                | B. Smith   |                    | <del></del>     |
| SAMPLE        | SAMPLE<br>NUMBER                | SET<br>B INCHES | a inches | B INCHES        | VALUE   | SAMPLE<br>RECOVERY | FEET              | ТҮРЕ     | L0G               |           |                                |            |                    |                 |
|               | t                               | T               |          |                 | <br>    | 1<br>T             | I.                |          | 1<br>H            | CLAS      | SIFICATION OF                  | MATER      | IAL                | REM             |
| CORE          | RUN                             | RUN<br>LENGTH   | RUN      | R00<br>RECOVERY | PERCENT | <b>6</b> 2         | DEPTH IN          | SAMPLE   | GRAPHIC           |           |                                |            |                    |                 |
|               |                                 | ┣──             |          |                 |         |                    |                   |          |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 121               |          |                   |           |                                |            | ł                  |                 |
|               |                                 |                 |          |                 |         |                    | 123 -             |          |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 124 -             |          |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 125 —             |          |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 126 —             |          |                   |           |                                |            |                    |                 |
|               |                                 | }               |          |                 |         |                    | 127 -             |          |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 128 -             |          |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 129               |          |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 131 -             |          |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 132 —             |          |                   | Sandy CL  | AY; brown.                     |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 133               |          |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 134 —             |          |                   |           |                                |            |                    |                 |
|               |                                 |                 | ſ        |                 |         |                    | 135               |          | $\langle \rangle$ |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 136               |          |                   | Clayey S  | AND; brown; mediu              | um grained | J.                 |                 |
|               |                                 |                 |          |                 |         |                    | 138               |          |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 139 —             | i        |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 140 —             |          | $\mathcal{H}$     | Sandy CL  | AY; brown.                     |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 141               |          |                   | -         |                                |            | [                  |                 |
|               |                                 |                 |          |                 |         |                    | 142 —             |          | $\langle \rangle$ |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 143 -             |          |                   |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 144 —<br>145 —    |          | $\langle \rangle$ |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 146 -             |          | '//               |           |                                |            |                    |                 |
|               |                                 |                 |          |                 |         |                    | 147 —             |          |                   | Liayey Si | AND; brown; mediu              | um grained | 1. }               |                 |
|               |                                 |                 |          |                 |         |                    | 148 -             |          | $//\lambda$       |           |                                |            |                    |                 |

\_\_\_\_

|                | -                 |               |               |                 |         |                    |                  |        |         |          |                         |          |                     |     |                       |
|----------------|-------------------|---------------|---------------|-----------------|---------|--------------------|------------------|--------|---------|----------|-------------------------|----------|---------------------|-----|-----------------------|
|                | ₹                 | BL            | ACK           | & v             | ΈΑΤ     | СН                 |                  | 1 (    | JG      | OF BOF   | NG                      |          | BORING              |     | EX-2-D<br>EET 6 OF 8  |
| CLIEN          |                   |               |               |                 |         |                    |                  |        |         | PRO      | IECT<br>Services        |          |                     |     | PROJECT NO. 46118     |
| PROJE          | ECT LO<br>y, Kans | CATIO         | N             |                 | c       | COORDI             | NATES<br>4.31623 |        |         | 8.43995' | ELEVATION<br>3140.50° ( | (DATUM)  | TOTAL DE<br>240 FEE | РТН | DATE START<br>7/10/00 |
| SURF           | ACE CO            |               | ONS           |                 |         | 1 943              | 4.31023          |        | 103     | 0.43993  | LOGGED BY<br>G. Felkner |          | 1 240 FEE           |     | DATE FINISH           |
| Gras           | .sy.              | T             | AMPLIN        |                 |         |                    | CHEC             | KED    | BY      |          | G. Feikner              | APPROVED | BY                  | _   | 7/10/00               |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER  | SET           | 2ND<br>INCHES | B INCHES        | VALUE   | SAMPLE<br>RECOVERY | B. Sr<br>⊢       | T      |         |          |                         | B. Smith | T                   |     |                       |
| SA             | N SA              | •             | •             | _               | 5       | RECK               | FEET             | TYPE   | 100     |          |                         |          |                     |     |                       |
|                | œ                 |               |               |                 | ⋤⋩      |                    | NI H             | SAMPLE | GRAPHIC | CLA      | SSIFICATION             | OF MATER |                     |     | REMARKS               |
| CORE           | RUN<br>NUMBER     | RUN<br>LENGTH | RUN           | ROD<br>RECOVERY | PERCENT | ROO                | DEPTH IN         | SAM    | GRA     |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 151 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         | }                  | 152 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 153 —            | ł      |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 154 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 155 —<br>156 —   | ]      |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 157 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 158 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 159 —            | 1      |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 160 —<br>161 —   |        |         |          |                         |          |                     |     | ·                     |
|                |                   |               |               |                 |         |                    | 162 -            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 163 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 164 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 165 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 166 —<br>167 —   |        |         |          |                         |          |                     |     |                       |
|                |                   | }             |               |                 |         |                    | 168              |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 169 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 170 —            | ł      |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 171 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 172 —<br>173 —   | ]      |         |          |                         |          |                     |     |                       |
|                |                   | Į             |               | ļ               |         |                    | 174 —            |        |         |          |                         |          |                     |     | 1                     |
|                |                   |               |               |                 |         |                    | 175 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 176 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 177 —            |        |         |          |                         |          |                     |     |                       |
|                |                   |               |               |                 |         |                    | 178 —            | 1      |         |          |                         |          |                     |     | -                     |
|                |                   |               |               |                 |         |                    | 179 —            | 1      |         |          |                         |          |                     |     |                       |

| CLIEN        | T<br>PA          |               |                                                                      |          |                     |                    |                  |          |         | PROJ<br>Ace | ECT<br>Services          |                      |               | SHEET 7 OF<br>PROJECT<br>46118 |
|--------------|------------------|---------------|----------------------------------------------------------------------|----------|---------------------|--------------------|------------------|----------|---------|-------------|--------------------------|----------------------|---------------|--------------------------------|
|              | CT LO            |               | 1                                                                    |          | C                   | 00RD]<br>N 943     | NATES<br>4.31623 | . Е      | 1035    | 8.43995'    | ELEVATION<br>3140.50' (m | (DATUM)<br>sl)       | 240 FEE       | TH DATE STA<br>7/10/00         |
|              | ACE CO           |               | ONS                                                                  |          |                     |                    |                  |          |         |             | LOGGED BY<br>G. Felkner  |                      |               | DATE F1N<br>7/10/00            |
|              | r                |               | AMPLIN                                                               |          |                     |                    | CHECI<br>B. Sr   | ED I     | 3Y      |             |                          | APPROVED<br>B. Smith | BY            |                                |
| SAMPLE       | SAMPLE<br>NUMBER | 8 INCHES      | e inches                                                             | B INCHES | N<br>VALUE          | SAMPLE<br>Recovery | E T              | TYPE     | 10C     |             |                          |                      |               | . <u></u>                      |
| CORE<br>SIZE | RUN<br>NUMBER    | RUN<br>LENGTH | CORING<br>AUNA<br>AUNA<br>AUNA<br>AUNA<br>AUNA<br>AUNA<br>AUNA<br>AU | RECOVERY | PERCENT<br>RECOVERY | 800                | DEPTH IN         | SAMPLE T | GRAPHIC | CLAS        | SSIFICATION              | OF MATER             | IAL           | REMARKS                        |
|              |                  |               |                                                                      |          |                     |                    | 181 —            |          |         |             |                          | <u></u>              |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 182 —<br>183 —   |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 184 —            |          |         | SAND. Dr    | rown, medium gra         | ained.               | · · · · · · · |                                |
|              |                  |               |                                                                      |          |                     |                    | 185 -            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 186              |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 188 -            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 189 —            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 190 —            |          |         | Clayey S    | SAND; brown; me          | dium graine(         | d.            |                                |
|              |                  |               |                                                                      |          |                     |                    | 191 -            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 192 -            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 194 —            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 195 —            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 196 -            |          |         |             |                          |                      |               |                                |
| ĺ            |                  |               |                                                                      |          |                     |                    | 197 —<br>198 —   |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     | ļ                  | 199 -            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 200 -            |          |         |             |                          |                      |               |                                |
|              | 1                |               |                                                                      |          |                     |                    | 201 —            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 202 —            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 203 —<br>204 —   |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 205 -            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 206 —            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 207 —            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     | [                  | 208 -            |          |         |             |                          |                      |               |                                |
|              |                  |               |                                                                      |          |                     |                    | 209 —            |          |         |             |                          |                      |               |                                |

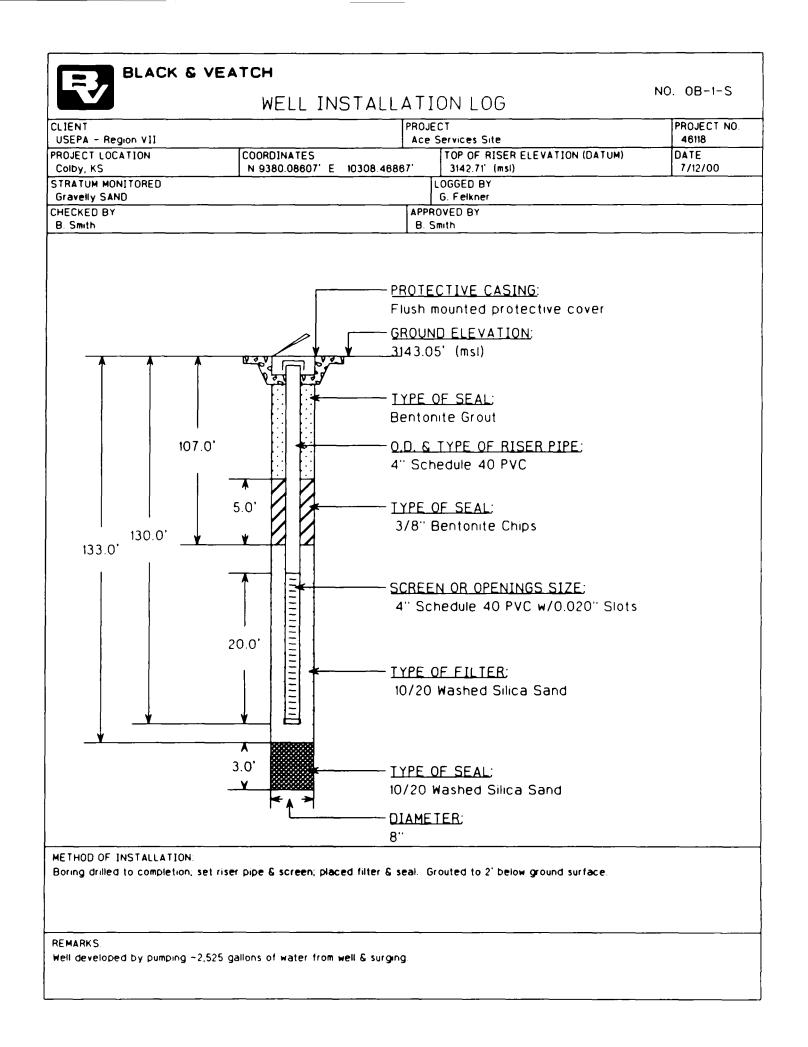
|                | _                 |               |          |                 |          |                    |                  |        |         |                                                             |                                              | T          |
|----------------|-------------------|---------------|----------|-----------------|----------|--------------------|------------------|--------|---------|-------------------------------------------------------------|----------------------------------------------|------------|
|                | = }               | BL            | ACK      | 8 V             | EAT      | CH                 |                  |        | _       | BORIN                                                       | G NO. EX-2-D                                 |            |
|                |                   |               |          |                 |          |                    |                  | LC     | DG      | OF BORING                                                   | SHEET 8 OF 8                                 |            |
| CLIEN          | NT<br>PA          |               |          |                 |          |                    |                  |        |         | PROJECT<br>Ace Services                                     | PROJECT NO                                   | <b>)</b> . |
| PROJE          | ECT LO<br>y, Kans | CATIO         | N        |                 | ſ        | 00RDI<br>N 943     | NATES<br>4.31623 | Г. Е   | E 1039  | ELEVATION (DATUM) TOTAL (<br>38.43995' 3140.50' (msl) 240 F | DEPTH DATE STAR                              | T<br>T     |
| <u> </u>       | ACE CO            |               | ONS      |                 | <b>I</b> |                    |                  |        |         | LOGGED BY<br>G. Felkner                                     | DATE FINIS<br>7/10/00                        | н          |
|                |                   | S             | AMPLIN   |                 | <br>+    | <b>T</b>           | СНЕС             | KED    | BY      | APPROVED BY                                                 |                                              |            |
| SAMPLE<br>TYPE | SAMPLE<br>NUMBER  | SET           | NCHES    | 3RD<br>INCHES   | VALUE    | SAMPLE<br>Recovery | B. S(<br>(0, ×)  |        |         | B. Smith                                                    | 1                                            |            |
| NS I           | N S N             | 6             | •        | •               | ×        | RECC               | FT (x            | TYPE   | 100     |                                                             |                                              | -          |
|                | <u> </u>          | 1             |          | •               | ~~       | 1                  |                  |        | HIC     | CLASSIFICATION OF MATERIAL                                  | REMARKS                                      |            |
| CORE           | RUN<br>NUMBER     | RUN<br>LENGTH | RECOVERY | ROD<br>RECOVERY | PERCENT  | ROO                | OEPTH IN         | SAMPLE | GRAPHIC |                                                             |                                              | T          |
|                | <u> </u>          |               | <b> </b> |                 |          |                    | 211              |        | V//     |                                                             | 1                                            |            |
|                |                   |               |          |                 |          |                    | 211              |        |         |                                                             |                                              | T          |
|                |                   |               |          |                 |          |                    | 213 -            |        |         |                                                             |                                              |            |
|                |                   |               |          |                 |          |                    | 214 -            |        |         |                                                             |                                              | Ŧ          |
|                |                   |               |          |                 |          |                    | 215 —            |        |         |                                                             |                                              | ļ          |
|                |                   |               |          |                 |          |                    | 216 —            |        |         |                                                             |                                              |            |
|                |                   |               |          |                 |          |                    | 217 —            | 1      |         |                                                             |                                              | Ī          |
|                |                   |               |          |                 |          |                    | 218 -            | 1      |         |                                                             |                                              |            |
|                |                   |               |          |                 |          |                    | 219 -            |        |         |                                                             |                                              | T          |
|                |                   |               |          |                 |          |                    | 220 —<br>221 —   | ]      |         |                                                             |                                              | 1          |
|                |                   |               |          |                 |          |                    | 222 -            |        |         |                                                             |                                              | ľ          |
|                |                   |               |          |                 |          |                    | 223 -            |        |         | Gravelly SAND, brown, medium grained.                       |                                              | 1          |
|                |                   |               |          |                 |          |                    | 224 -            | 1      |         |                                                             |                                              | Ţ          |
|                |                   |               |          |                 |          |                    | 225 -            | 1      |         |                                                             |                                              |            |
|                |                   |               |          |                 |          |                    | 226 —            | {      |         |                                                             |                                              |            |
|                |                   |               |          |                 |          |                    | 227 —            | 1      |         |                                                             |                                              |            |
|                |                   |               |          |                 |          |                    | 228 -            | 1      |         |                                                             |                                              | -          |
|                |                   |               |          |                 |          |                    | 229 -<br>230 -   | ]      |         |                                                             |                                              | Ì          |
|                |                   |               |          |                 |          | ļ                  | 230 -            |        |         |                                                             |                                              |            |
|                |                   |               |          |                 |          |                    | 232 -            |        |         |                                                             |                                              |            |
|                |                   |               |          |                 |          |                    | 233 -            |        |         | SHALE greenish-gray this hedded                             | 4                                            | ,          |
|                |                   |               |          |                 |          |                    | 234 -            |        |         | SHALE, greenish-gray, thin bedded,<br>(Pierre Shale Fm).    |                                              | I          |
|                |                   |               |          |                 |          |                    | 235 —            |        |         |                                                             |                                              | 1          |
|                |                   |               |          |                 |          |                    | 236 -            |        |         |                                                             |                                              | Ţ          |
|                |                   |               |          |                 |          |                    | 237 -            |        |         |                                                             | ~4000 gallons water<br>used during drilling. | ļ          |
|                |                   |               |          |                 |          |                    | 238 —<br>239 —   | •      |         |                                                             | Bottom of boring @ 24<br>Water level not     | 40'        |
|                |                   |               |          |                 |          |                    |                  |        |         |                                                             | recorded. Extraction                         | - #eii     |

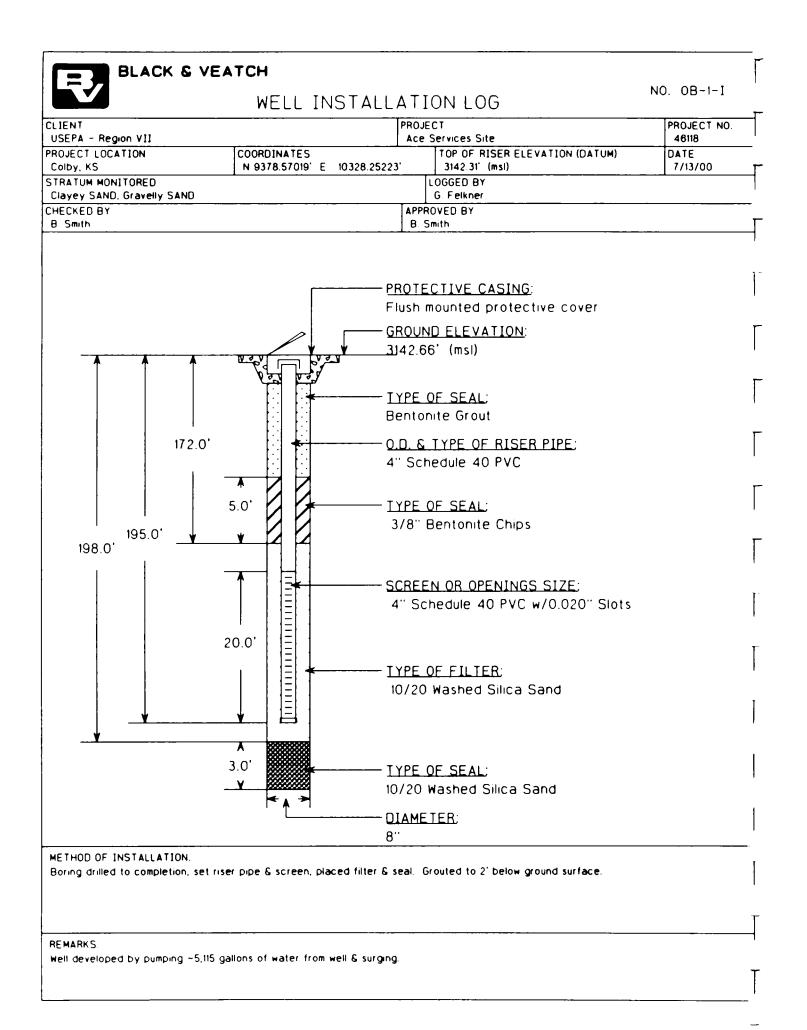
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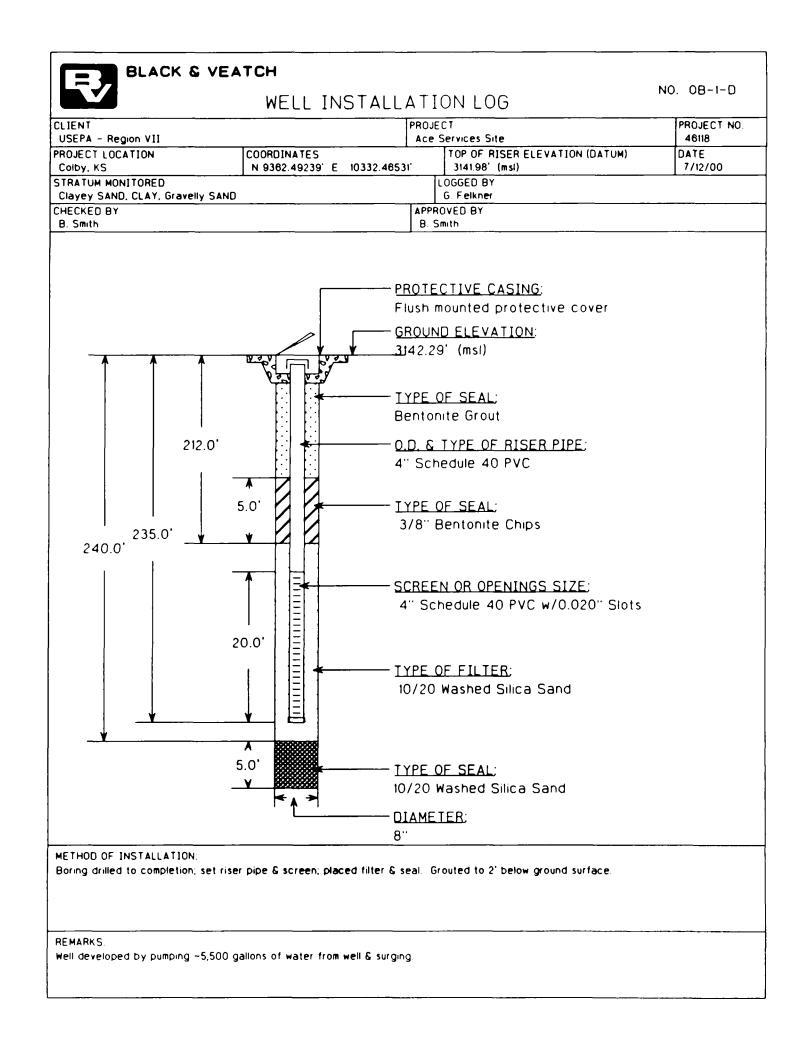
Appendix B Well Construction Logs

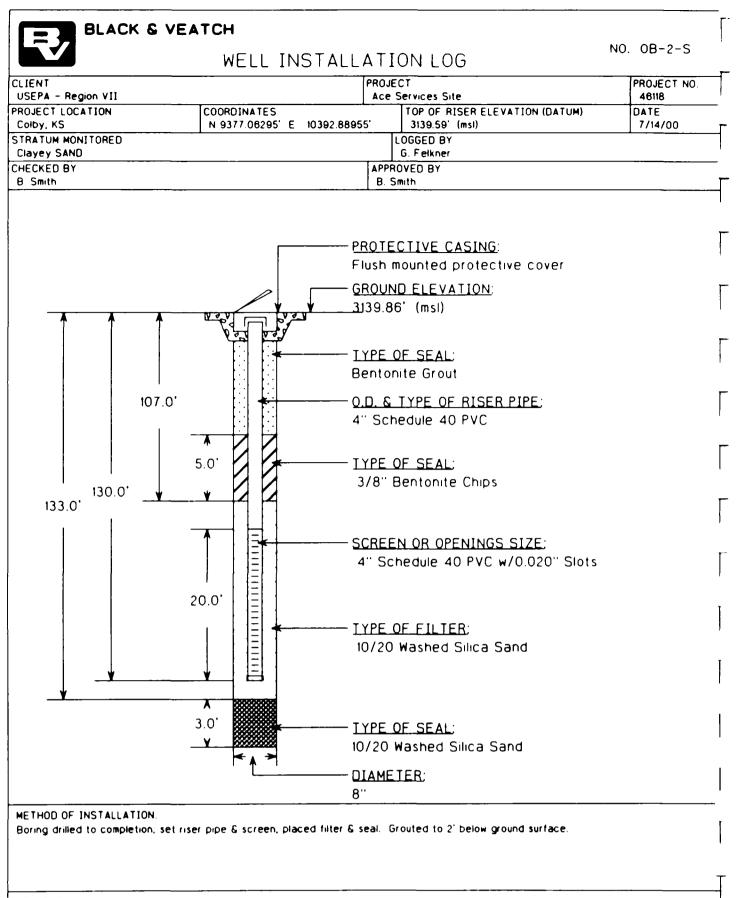
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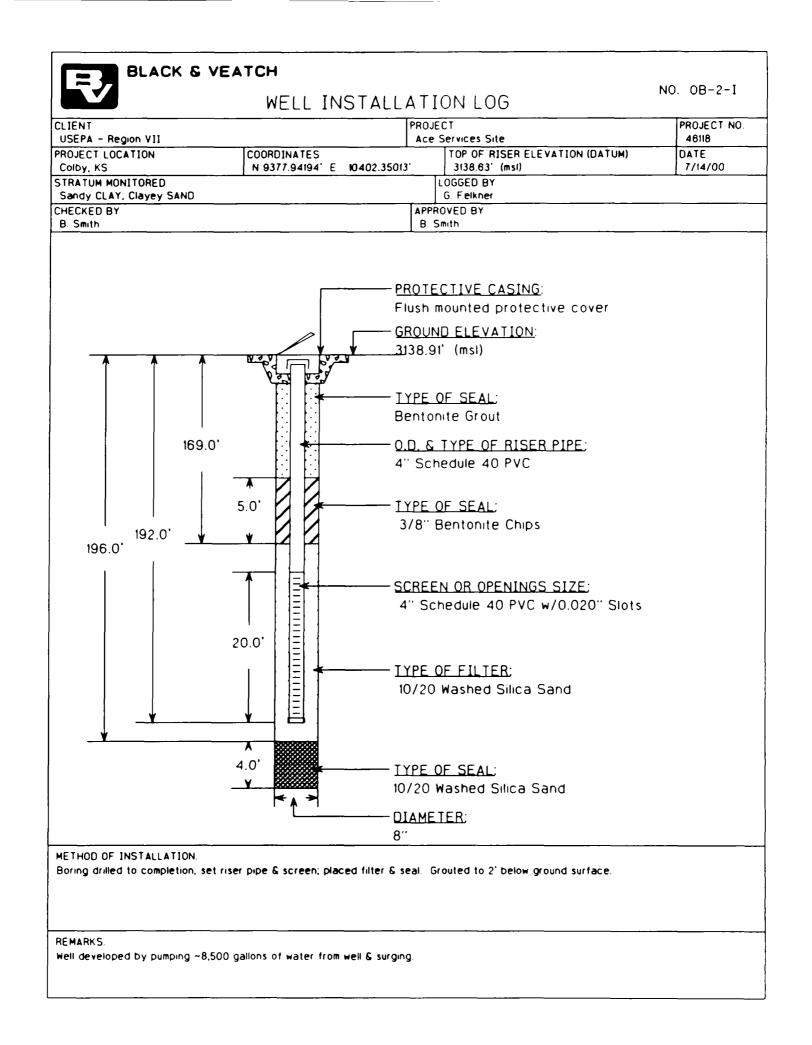


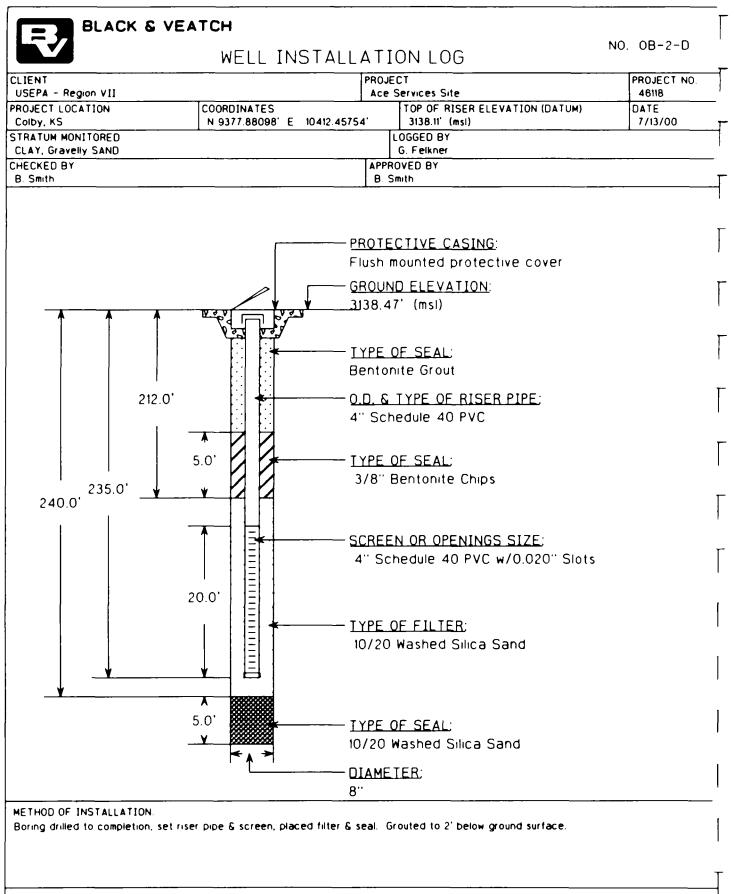




REMARKS.

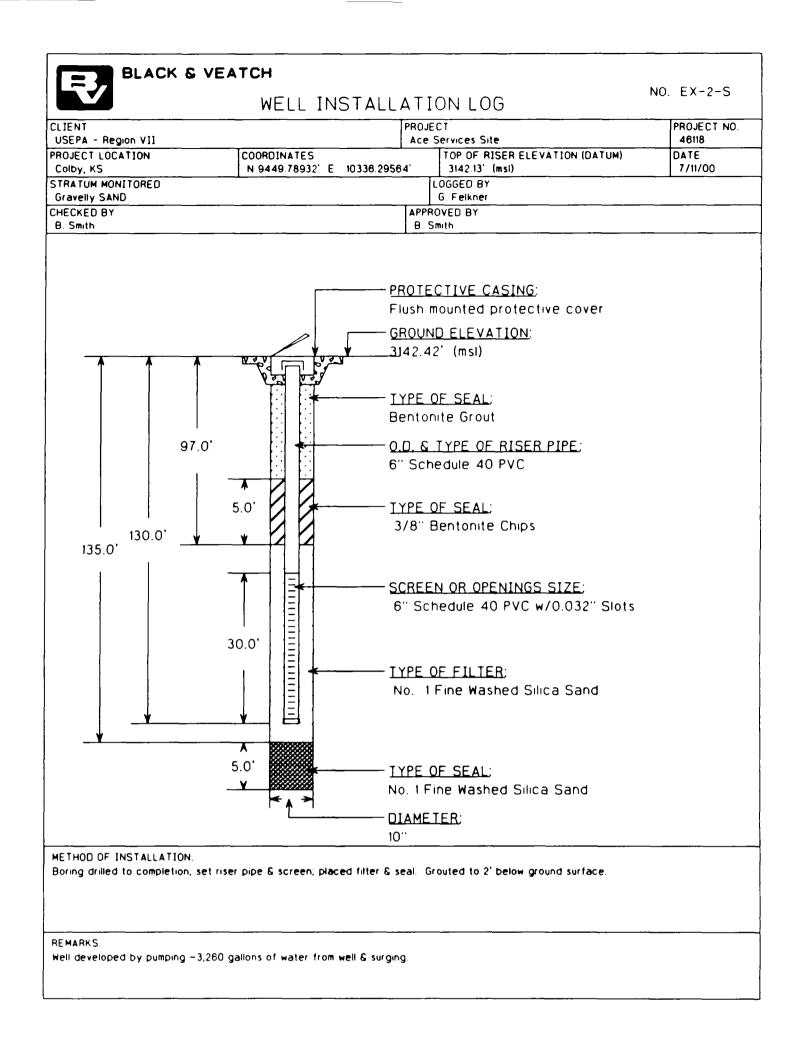
Well developed by pumping ~2,900 gallons of water from well & surging.

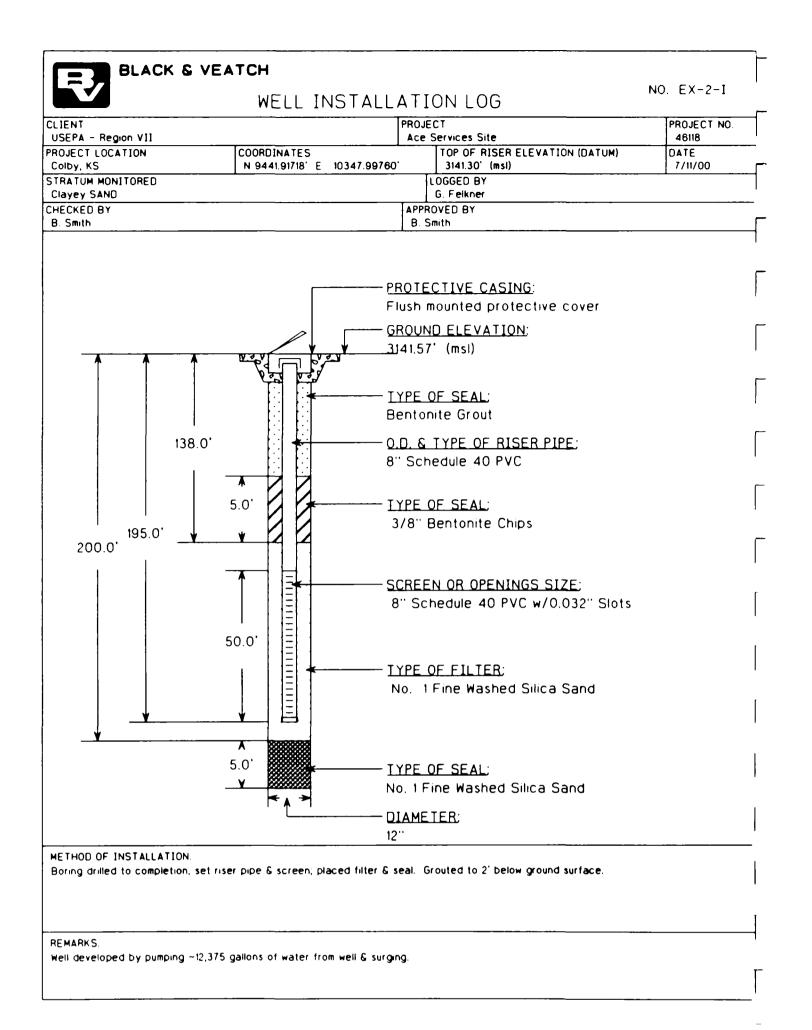


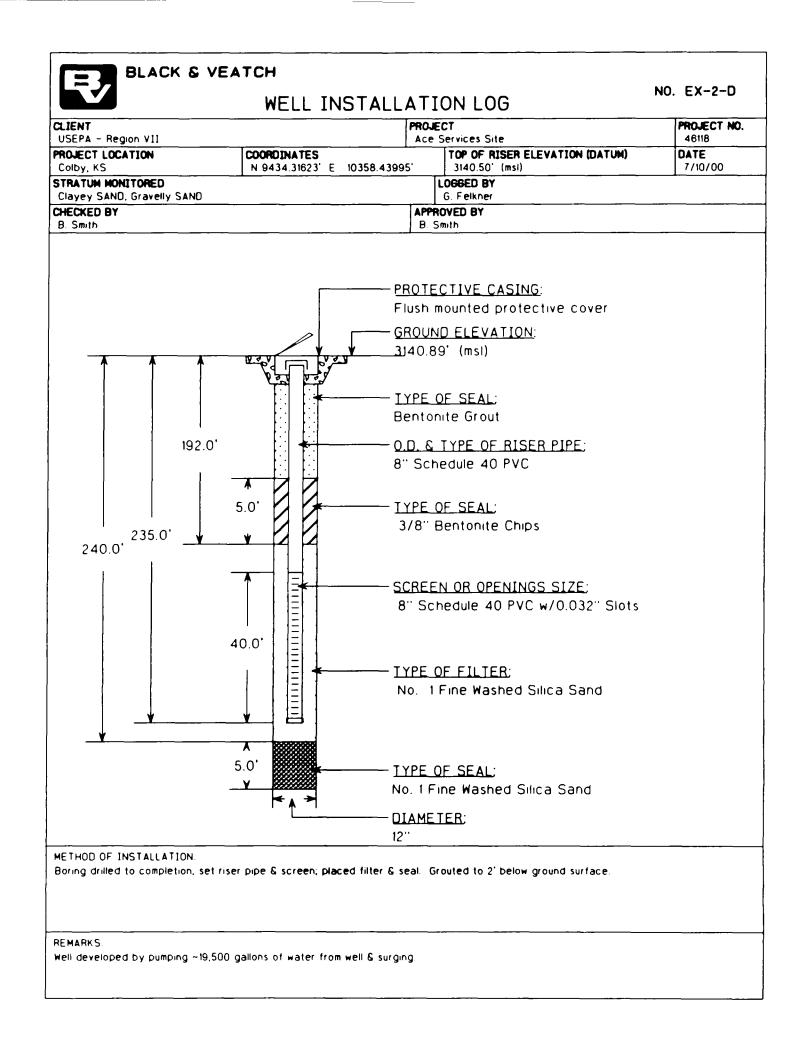


REMARKS.

Well developed by pumping ~4,680 gallons of water from well & surging.







Appendix C Well Development/Purging Data Sheets

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|                                                                                                                                                                                                                                                                                                                                                   | orp. Page ( of )                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Black & Veatch Special Projects Co                                                                                                                                                                                                                                                                                                                | MONITORING WELL                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                   | LOPMENT/BURGING DATA                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |
| Project Number<br>46118,123                                                                                                                                                                                                                                                                                                                       | Project Name Date 7-18-00                                                                                                 |
| Monitor Well Number                                                                                                                                                                                                                                                                                                                               | Field Investigator(s)                                                                                                     |
| OB-1-5                                                                                                                                                                                                                                                                                                                                            | G. Felkner                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |
| WELL DATA<br>INITIAL DEPTH 112.2'<br>Total Depth 130'                                                                                                                                                                                                                                                                                             | bj5 Water Column Height <u>17.8</u><br>Well Volume (gale) <u>-12</u><br>(x)(height) x=.163 gal/ft { 2°, x=.653 gal/ft { 4 |
| iotal Deptniso                                                                                                                                                                                                                                                                                                                                    | (x)(height) x=.163 gal/ft & 2°, x=.653 gal/ft & 4                                                                         |
| Well Diameter 4"                                                                                                                                                                                                                                                                                                                                  |                                                                                                                           |
| METHOD OF WELL DEVELOPMENT                                                                                                                                                                                                                                                                                                                        | PHOTOGRAPH IDENTIFICATION NO.                                                                                             |
| X Pumping Air Lift<br>X Surging Bailing                                                                                                                                                                                                                                                                                                           |                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |
| WATER SAMPLING DATA                                                                                                                                                                                                                                                                                                                               | mersile oump Was Well Pumped Dry? Yes (No)                                                                                |
|                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |
| 3 Well Volumes0                                                                                                                                                                                                                                                                                                                                   | sale Amount of Water Removed from Well -2525                                                                              |
| FINAL FIELD ANALYSIS                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                   | conductancemicromhos pHTurbidity                                                                                          |
| Physical Appearance slight                                                                                                                                                                                                                                                                                                                        | Freenish tint                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |
| Romarks Mighrange Heri Cu                                                                                                                                                                                                                                                                                                                         | - Sield test Kit =450 ppb                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                   | •                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                   | Taitid                                                                                                                    |
| TIME Temp °C Conductivit                                                                                                                                                                                                                                                                                                                          |                                                                                                                           |
| IIME IEMP °C Conductivit                                                                                                                                                                                                                                                                                                                          | tubil 112 0 25 pm                                                                                                         |
| GIME         Imp °C         Conductivity           1300         Start         punpin           1730         15.5         717                                                                                                                                                                                                                      | tubil 112 0 25 pm                                                                                                         |
| Start         Pump *C         Conductivity           1300         Start         Pump:         T           1730         15.5         717         T           1340         15.6         722-         T                                                                                                                                              | tubil 112 0 25 pm                                                                                                         |
| Imp ·c         Conductivity           1300 $5toot$ $\rho_{1}$ 1300 $5toot$ $\rho_{1}$ 1300 $15.5$ $717$ 1340 $15.6$ $722$ 1355 $15.5$ $726$                                                                                                                                                                                                       | tubil 112 0 25 pm                                                                                                         |
| State $\mu \sim \rho$ 1300         State $\mu \sim \rho$ 1730         15.5         717           1340         15.6         722-           1355         15.5         726           1410         15.6         72.1                                                                                                                                  | tubil 112 0 25 pm                                                                                                         |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                             | tubil 112 0 25 pm                                                                                                         |
| 1300 Start purpin<br>1300 15.5 717<br>1340 15.6 722<br>1355 15.5 726<br>1410 15.6 729<br>1415 15.6 729<br>1415 15.6 729<br>1415 15.6 729<br>1415 15.6 729                                                                                                                                                                                         | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                     |
| 1300 <u>Start</u> purplin<br>1300 <u>15.5</u> 717<br>1340 <u>15.6</u> 722<br>1355 <u>15.5</u> 726<br>1410 <u>15.6</u> 729<br>1410 <u>15.6</u> 729<br>1415 <u>15.6</u> 729<br>1415 <u>15.6</u> 729<br>1415 <u>15.6</u> 729<br>1417 <u>Sume</u> well<br>1430 <u>15.6</u> 743                                                                        | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                     |
| 1300 Start purpin<br>1300 15.5 717<br>1340 15.6 722<br>1355 15.5 726<br>1410 15.6 729<br>1415 15.6 729<br>1415 15.6 729<br>1415 15.6 729<br>1410 5urge well<br>1430 15.6 743<br>1430 15.6 743                                                                                                                                                     | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                     |
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<u>776</u> <u>77</u> |
| Romarko <u>Her</u> (v- fed<br>GIME <u>Tomp °C</u> <u>Conductivit</u><br>ONS <u>Stad</u> <u>A-gin</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Remarke <u>Her</u> ( $v + ed$<br>STIME Temp °C <u>Conductivit</u><br>O(15 <u>5+ad</u> $A - e^{i2}$ )<br>O(15 <u>5+ad</u> $A - e^{i2}$ )<br>(0(15 <u>5+ad</u> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                       | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Physical Appearance $51.5$ H<br>Remarke <u>Conductivi</u><br>1540 <u>Stant</u> <u>Purpin</u><br>1610 <u>15.6</u> <u>614</u><br>1670 <u>15.8</u> <u>663</u><br><u>1640 15.8</u> <u>664</u><br><u>1650 15.9</u> <u>673</u><br><u>1651 Surge</u> vell<br><u>1705 15.9</u> <u>684</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Physical Appearance $(1/200)^{5}$<br>Remarks $(1/20)^{5}$<br>$(1/20)^{5}$ br>$(1/20)^{5}$ $(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$                                                     | $\frac{1}{10000000000000000000000000000000000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2d) <u>Plov Rasa</u> <u>DO</u> <u>De</u><br><u>72 gen</u><br><u>90 gen</u><br><u>11</u><br><u>76</u><br><u>11</u><br><u>76</u>                                                |
| Physical Appearance $(-1.5 em)^{1}$<br>Remarks $(-1.5 em)^{1}$<br>$(-1.5 em)^$                               | $\frac{1}{107.10} = \frac{1}{107.10} = \frac{1}$ | 2d) <u>Plov Rasa</u> <u>DO</u> <u>De</u><br><u>72 gen</u><br><u>90 gen</u><br><u>11</u><br><u>76</u><br><u>11</u><br><u>76</u>                                                |
| Physical Appearance $(-1200)^{-1}$<br>Remarke $(-1200)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>$(-120)^{-1}$<br>(-12 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| Physical Appearance $(1/200)^{5}$<br>Remarks $(1/20)^{5}$<br>$(1/20)^{5}$ br>$(1/20)^{5}$ $(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$                                                     | $\frac{1}{10000000000000000000000000000000000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2d) <u>Plov Rasa</u> <u>DO</u> <u>De</u><br><u>72 gen</u><br><u>90 gen</u><br><u>11</u><br><u>76</u><br><u>11</u><br><u>76</u>                                                |
| Physical Appearance $(1/200)^{5}$<br>Remarks $(1/20)^{5}$<br>$(1/20)^{5}$ br>$(1/20)^{5}$ $(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$                                                     | $\frac{1}{10000000000000000000000000000000000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2d) <u>Plov Rasa</u> <u>DO</u> <u>De</u><br><u>72 gen</u><br><u>90 gen</u><br><u>11</u><br><u>76</u><br><u>11</u><br><u>76</u>                                                |
| Physical Appearance $(1/200)^{5}$<br>Remarks $(1/20)^{5}$<br>$(1/20)^{5}$ br>$(1/20)^{5}$ $(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$                                                     | $\frac{1}{10000000000000000000000000000000000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2d) <u>Plov Rasa</u> <u>DO</u> <u>De</u><br><u>72 gen</u><br><u>90 gen</u><br><u>11</u><br><u>76</u><br><u>11</u><br><u>76</u>                                                |
| Physical Appearance $(1/200)^{5}$<br>Remarks $(1/20)^{5}$<br>$(1/20)^{5}$ br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$                                                        | $\frac{1}{10000000000000000000000000000000000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2d) <u>Plov Rasa</u> <u>DO</u> <u>De</u><br><u>72 gen</u><br><u>90 gen</u><br><u>11</u><br><u>76</u><br><u>11</u><br><u>76</u>                                                |
| Physical Appearance $(1/200)^{5}$<br>Remarks $(1/20)^{5}$<br>$(1/20)^{5}$ br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$                                                        | $\frac{1}{10000000000000000000000000000000000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2d) <u>Plov Rasa</u> <u>DO</u> <u>De</u><br><u>72 gen</u><br><u>90 gen</u><br><u>11</u><br><u>76</u><br><u>11</u><br><u>76</u>                                                |
| Physical Appearance $(1/200)^{5}$<br>Remarks $(1/20)^{5}$<br>$(1/20)^{5}$ br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$                                                        | $\frac{1}{10000000000000000000000000000000000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2d) <u>Plov Rasa</u> <u>DO</u> <u>De</u><br><u>72 gen</u><br><u>90 gen</u><br><u>11</u><br><u>76</u><br><u>11</u><br><u>76</u>                                                |
| Physical Appearance $(2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\frac{1}{107.10} + \frac{1}{107.10} = \frac{1}{107.10} + \frac{1}{107.10} = \frac{1}$ | 2d) <u>Plov Rasa</u> <u>DO</u> <u>De</u><br><u>72 gen</u><br><u>90 gen</u><br><u>11</u><br><u>76</u><br><u>11</u><br><u>76</u>                                                |
| Physical Appearance $(1 - 2 + 1)$<br>Remarks $(1 - 2 + 1)$<br>(1 - 2 - 2 + 1)<br>(2 - 2 - 2 + 2)<br>(2 - 2 - 2)<br>(2 - 2)                                                                                                                                                                                                                                                                             | $\frac{1}{107.10} + \frac{1}{107.10} = \frac{1}{107.10} + \frac{1}{107.10} = \frac{1}$ | 2d) <u>Plov Rasa</u> <u>DO</u> <u>De</u><br><u>72 gen</u><br><u>90 gen</u><br><u>11</u><br><u>76</u><br><u>11</u><br><u>76</u>                                                |
| Physical Appearance $(1/200)^{5}$<br>Remarks $(1/20)^{5}$<br>$(1/20)^{5}$ br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$<br>$(1/20)^{5}$                                                        | $\frac{1}{107.10} + \frac{1}{107.10} = \frac{1}{107.10} + \frac{1}{107.10} = \frac{1}$ | 2d) <u>Plov Rasa</u> <u>DO</u> <u>De</u><br><u>72 gen</u><br><u>90 gen</u><br><u>11</u><br><u>76</u><br><u>11</u><br><u>76</u>                                                |

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| Black & Veatch Special Projects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Physical Appearance Green<br>Remarke $\frac{1}{100}$<br>CIME Tamp °C Conductive<br>2910 $\frac{1}{2404}$ $\frac{1}{100}$ $\frac{1}{120}$<br>$\frac{1}{2405}$ $\frac{1}{16}$ $\frac{1}{478}$<br>$\frac{1}{1215}$ $\frac{1}{16}$ $\frac{478}{475}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Physical Appearance Green<br>Remarke $\frac{1}{100}$<br>CIME Tamp °C Conductive<br>2910 $\frac{1}{2404}$ $\frac{1}{100}$ $\frac{1}{120}$<br>$\frac{1}{2405}$ $\frac{1}{16}$ $\frac{1}{478}$<br>$\frac{1}{1215}$ $\frac{1}{16}$ $\frac{478}{475}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $\frac{155}{100} + \frac{100}{100} + $ | <u>Flow Rase</u> <u>DO</u> <u>DRP</u><br><u>13 spm</u><br><u>13 spm</u><br><u>14 sfi</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>11 sfi</u><br><u>11 sfi</u><br><u>1</u> |
| Physical Appearance Greek<br>Remarke $-$<br>CIME Temp °C Conductive<br>2910 $         -$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | $\frac{155}{100} + \frac{100}{100} + $ | <u>Flow Rase</u> <u>DO</u> <u>DRP</u><br><u>13 spm</u><br><u>13 spm</u><br><u>14 sfi</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>11 sfi</u><br><u>11 sfi</u><br><u>1</u> |
| Physical Appearance $(1 - 244)$<br>Remarke $(2 - 244)$<br>Remarke $(2 - 24)$<br>Physical Appearance $(1 - 24)$<br>Remarke $(2 - 24)$<br>Physical Appearance $(2 - 24)$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\frac{155}{100} + \frac{1000}{100} + 100$                                           | <u>Flow Rase</u> <u>DO</u> <u>DRP</u><br><u>13 spm</u><br><u>13 spm</u><br><u>14 sfi</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>11 sfi</u><br><u>11 sfi</u><br><u>1</u> |
| Physical Appearance Green<br>Remarks $\frac{4}{1200}$<br>TIME Tamp °C Conductive<br>$2910$ $\frac{5}{124}$ $\frac{1120}{120}$<br>2955<br>$\frac{1286}{125}$ $\frac{16}{16}$ $\frac{478}{478}$<br>$\frac{125}{16}$ $\frac{16}{475}$<br>$\frac{478}{1215}$ $\frac{16}{475}$<br>$\frac{478}{1215}$ $\frac{16}{475}$<br>$\frac{478}{1215}$ $\frac{16}{475}$ $\frac{478}{475}$<br>$\frac{1215}{16}$ $\frac{16}{475}$ $\frac{478}{1210}$<br>$\frac{1215}{120}$ $\frac{16}{120}$ $\frac{482}{1215}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\frac{155}{100} + \frac{1000}{100} + 100$                                           | <u>Flow Rase</u> <u>DO</u> <u>DRP</u><br><u>13 spm</u><br><u>13 spm</u><br><u>14 sfi</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>11 sfi</u><br><u>11 sfi</u><br><u>1</u> |
| Physical Appearance Green<br>Remarke $\frac{4}{1200}$<br>Remarke $\frac{4}{1200}$<br>Physical Appearance Green<br>Remarke $\frac{4}{1200}$<br>Physical Appearance $\frac{1120}{1200}$<br>Physical Appearance $\frac{1120}{1200}$<br>P                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\frac{155}{100} + \frac{1000}{100} + 100$                                           | <u>Flow Rase</u> <u>DO</u> <u>DRP</u><br><u>13 spm</u><br><u>13 spm</u><br><u>14 sfi</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>11 sfi</u><br><u>11 sfi</u><br><u>1</u> |
| Physical Appearance Greek<br>Remarke $\frac{4}{100}$ Conductive<br>2910 $\frac{51}{24}$ $\frac{100}{120}$ $\frac{1120}{120}$<br>$\frac{2910}{24}$ $\frac{51}{24}$ $\frac{100}{120}$ $\frac{1120}{120}$<br>$\frac{2910}{245}$ $\frac{100}{16}$ $\frac{1120}{478}$<br>$\frac{1125}{16}$ $\frac{16}{475}$<br>$\frac{478}{125}$ $\frac{16}{475}$ $\frac{478}{475}$<br>$\frac{1215}{16}$ $\frac{16}{475}$ $\frac{482}{120}$<br>$\frac{1245}{16}$ $\frac{16}{477}$ $\frac{482}{16}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\frac{155}{100} + \frac{1000}{100} + 100$                                           | <u>Flow Rase</u> <u>DO</u> <u>DRP</u><br><u>13 spm</u><br><u>13 spm</u><br><u>14 sfi</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>11 sfi</u><br><u>11 sfi</u><br><u>1</u> |
| Physical Appearance $(1 - 244)$<br>Remarks $(2 - 244)$<br>TIME Temp °C Conductive<br>2910 $(2 - 4 - 7)$<br>2910                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $\frac{155}{100} + \frac{1000}{100} + 100$                                           | <u>Flow Rase</u> <u>DO</u> <u>DRP</u><br><u>13 spm</u><br><u>13 spm</u><br><u>14 sfi</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>11 sfi</u><br><u>11 sfi</u><br><u>1</u> |
| Physical Appearance Green<br>Remarke $\frac{4}{100}$<br>2910 $\frac{1}{2100}$ $\frac{1}{2100}$ $\frac{1}{2100}$ $\frac{1}{2100}$ $\frac{1}{2100}$ $\frac{1}{2100}$ $\frac{1}{200}$ $\frac{1}{$                                                                                                                | $\frac{155}{110} + \frac{100}{100} + $ | <u>Plov Rasa</u> <u>DO</u> <u>DEP</u><br><u>13 Jpm</u><br><u>13 dpm</u><br><u>13 dpm</u><br><u>11</u><br><u>61</u><br><u>11</u><br><u>6.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Physical Appearance Green<br>Im Im I am $\circ$ Conductive<br>Nemarke $4$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $\frac{155}{110} + \frac{100}{100} + $ | <u>Flow Rase</u> <u>DO</u> <u>DRP</u><br><u>13 spm</u><br><u>13 spm</u><br><u>14 sfi</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>11 sfi</u><br><u>11 sfi</u><br><u>1</u> |
| Physical Appearance Greek<br>Remarke $\frac{4}{100}$<br>21HZ IEED °C Conductiv<br>2910 $\frac{51}{24}$ $\frac{100}{120}$<br>$\frac{2910}{2157}$<br>$\frac{21}{25}$<br>$\frac{10}{2157}$<br>$\frac{10}{125}$ $\frac{10}{16}$ $\frac{478}{478}$<br>$\frac{1135}{16}$ $\frac{16}{475}$<br>$\frac{478}{125}$<br>$\frac{16}{475}$ $\frac{478}{1230}$<br>$\frac{1215}{16}$ $\frac{16}{477}$<br>$\frac{482}{192}$<br>$\frac{1435}{16}$ $\frac{16}{477}$<br>$\frac{477}{192}$<br>$\frac{16}{478}$<br>$\frac{477}{192}$<br>$\frac{16}{478}$<br>$\frac{477}{192}$<br>$\frac{16}{478}$<br>$\frac{477}{192}$<br>$\frac{16}{478}$<br>$\frac{477}{192}$<br>$\frac{16}{478}$<br>$\frac{477}{192}$<br>$\frac{16}{1520}$ $\frac{478}{10}$<br>$\frac{477}{192}$<br>$\frac{16}{1520}$ $\frac{478}{10}$<br>$\frac{478}{10}$<br>$\frac{477}{10}$<br>$\frac{478}{152}$<br>$\frac{16}{1520}$ $\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$<br>$\frac{478}{100}$ | $\frac{155}{110} + \frac{100}{100} + $ | <u>Flow Rase</u> <u>DO</u> <u>DRP</u><br><u>13 spm</u><br><u>13 spm</u><br><u>14 sfi</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>11 sfi</u><br><u>11 sfi</u><br><u>1</u> |
| Physical Appearance Green<br>Imperation of Conductive<br>Participation of Con                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\frac{155}{110} + \frac{100}{100} + $ | <u>Flow Rase</u> <u>DO</u> <u>DRP</u><br><u>13 spm</u><br><u>13 spm</u><br><u>14 sfi</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>15 spm</u><br><u>11 sfi</u><br><u>11 sfi</u><br><u>1</u> |

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| WELL DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                              |                                                                                                          |                  |
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| Well Diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                              |                                                                                                          |                  |
| METHOD OF WELL D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DEVELOPMENT · · · · · · · · · · · · · · · · · · ·                                       | PHOTOGRAPH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IDENTIFICATIO                                                                                                                | N NO.                                                                                                    |                  |
| Surging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Bailing .                                                                               | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                              |                                                                                                          | ,                |
| WATER SAMPLING I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ATA                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                              | 0                                                                                                        | M <sup>in.</sup> |
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| 3 Well Volumes _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                         | <ul> <li>Amount of Wa</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ter Removed f                                                                                                                | rom Well <u>"</u>                                                                                        | 3260             |
| FINAL FIELD ANAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LYSIS                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                              |                                                                                                          |                  |
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| Remarks <u>Maxin</u><br>Hex C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | hun pupping vite                                                                        | <u><sup>2</sup> П. зеве</u><br>330 ррм                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Perrovad                                                                                                                     |                                                                                                          |                  |
| Remarks Mayin<br>Hex C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Conductivity                                                                            | <u>= П. зељ</u><br>330 ррм<br>он. NTUB WL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Removed<br>(Jale)                                                                                                            | Elow Rate                                                                                                | <u>_00</u>       |
| Remarks Maxim<br>Hex C<br>GIME TEMP C<br>1620 In-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>front</u> est = 7<br><u>Conductivity</u>                                             | <u>2 11 geb</u><br>330 ppm<br><u>211 NTUE 41</u><br>1128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Removed<br>(Jale)                                                                                                            |                                                                                                          | <br>             |
| Remarks Maxim<br>Hex (1)<br>41-02 (1620 In)<br>1640 Bain<br>1727                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>front</u> est = 7<br><u>Conductivity</u>                                             | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (jalk)                                                                                                                       | 13 gpm<br>13 gpm                                                                                         |                  |
| Remarks Maxim<br>Hex (1)<br>41-02 (1620 In)<br>1640 Bain<br>1727                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>front</u> est = 7<br><u>Conductivity</u>                                             | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (3414)                                                                                                                       | 13 gpm<br>13 gpm<br>V                                                                                    | 7.0              |
| Remarks <u>Mayin</u><br>Hex (1)<br>41-02 <u>1620 <u>T</u>n-2<br/>1640 <u>Bain</u><br/>1727 <u>16</u><br/>1727 <u>16</u><br/>1800 <u>512</u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Conductivity<br>frattest = 7<br>Conductivity<br>frat<br>Conductivity<br>frat<br>566     | <u> <u> <u> </u> /u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (Jalia)<br>~ <u>949</u><br>~1000                                                                                             | 13 spm<br>13 gpm<br>V<br>15,73p.                                                                         |                  |
| Remarks <u>Mayin</u><br>Hex (1)<br>41-00 (1620 <u>Table</u><br>1620 <u>Table</u><br>1640 <u>Bain</u><br>1723 <u>16</u><br>1723 <u>16</u><br>1800 <u>Stat</u><br>0610 <u>16</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Conductivity<br>frattest = 7<br>Conductivity<br>frat<br>Conductivity<br>frat<br>566     | <u> <u> <u> </u> /u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (Jak)                                                                                                                        | 13 gpm<br>13 gpm<br>V<br>15,7 gp<br>15,7 gp                                                              |                  |
| Remerke Mayin<br>Hex (1)<br>1620 In (1)<br>1640 Bain (1)<br>1640 Bain (1)<br>1724 Il<br>1753 Il<br>1800 Stat<br>980 Stat<br>0810 Ilb<br>0720 Ilb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Conductivity<br>frattest = 7<br>Conductivity<br>frat<br>Conductivity<br>frat<br>566     | <u> <u> <u> </u> /u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (JAIL)<br>~ <u>949</u><br>~ <u>1000</u><br>~ <u>1942</u>                                                                     | 13 spm<br>13 gpm<br>V<br>15,7 sp.<br>15,7 sp.<br>«                                                       | 7.2              |
| Remerke <u>Mayin</u><br>Hex (1)<br>41-00 (1620 <u>Table</u><br>1620 <u>Table</u><br>1640 <u>Bain</u><br>1723 <u>16</u><br>1800 <u>Stat</u><br>0610 <u>16</u><br>0610 <u>16</u><br>0610 <u>16</u><br>0610 <u>16</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Conductivity<br>frattest = 7<br>Conductivity<br>frat<br>Conductivity<br>frat<br>566     | <u> <u> <u> </u> /u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (JAIL)<br>~ <u>949</u><br>~ <u>1000</u><br>~ <u>1141</u><br>0' ~2570                                                         | 13 gpm<br>13 gpm<br>V<br>15,7 gp<br>15,7 gp                                                              | 7.2              |
| Remerke <u>Mayin</u><br>Here (1)<br>411412 <u>Temp C</u><br>1620 <u>Table</u><br>1640 <u>Bain</u><br>1723 <u>16</u><br>1753 <u>16</u><br>1753 <u>16</u><br>1800 <u>514</u><br>9810 <u>514</u><br>0810 <u>16</u><br>0710 <u>16</u><br>0710 <u>16</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Conductivity<br>frattest = 7<br>Conductivity<br>frat<br>Conductivity<br>frat<br>566     | <u> <u> <u> </u> /u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (Jalia)<br>~ <u>949</u><br>~ <u>1000</u><br>~ <u>1141</u><br>p <sup>4</sup> ~ <u>2570</u><br>~ <u>2884</u>                   | 13 gpm<br>13 gpm<br>V<br>15,7gp<br>15,7gp                                                                | 7.1              |
| Remerke <u>Mayin</u><br>Here (1)<br>411412 <u>Temp C</u><br>1620 <u>Table</u><br>1640 <u>Bain</u><br>1723 <u>16</u><br>1753 <u>16</u><br>1753 <u>16</u><br>1800 <u>514</u><br>9810 <u>514</u><br>0810 <u>16</u><br>0710 <u>16</u><br>0710 <u>16</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Conductivity<br>frattest = 7<br>Conductivity<br>frat<br>Conductivity<br>frat<br>566     | <u> <u> <u> </u> /u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (JAIL)<br>~ <u>949</u><br>~ <u>1000</u><br>~ <u>1942</u><br>~ <u>1942</u><br>~ <u>2570</u><br>~ <u>2884</u><br>~ <u>3041</u> | 13 <u>spm</u><br>13 <u>gpm</u><br><u>v</u><br><u>15,7</u> <u>sp</u><br><u>15,7</u> <u>sp</u><br><u>v</u> | 7.1              |
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| Remarks Mayin<br>Here (1)<br>1620                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | $\frac{1}{10000000000000000000000000000000000$                                          | $\frac{1}{320} - \frac{1}{90}$ $\frac{1}{320} - \frac{1}{100}$ $\frac{1}{100} + \frac{1}{100}$ | (JAIL)<br>~949<br>~1000<br>~1941<br>~1941<br>~1941<br>~2570<br>~2884<br>~3041<br>~3260                                       | 13 <u>spm</u><br>13 <u>gpm</u><br><u>v</u><br><u>15,7</u> <u>sp</u><br><u>15,7</u> <u>sp</u><br><u>v</u> | 7.1              |
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| Physics<br>Remark<br>1325<br><u>1650</u><br>. <u>550</u>                                                                  | I Appearan<br>I I Appearan<br>I I I I I I I I I I I I I I I I I I I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                             | evad 94 <sup>13</sup> <u>Flov Rata</u> <u>DO</u> <u>Q</u><br><u>62.5 JP</u><br><u>188</u> <u>BO</u> <u>7</u><br><u>250</u> <u>75 7</u><br><u>75 7</u><br><u>16</u> <u>-</u><br><u>26</u> <u>1236</u>                                                                                                       |      |
| Physics<br>Remark<br>1325<br><u>Flow</u><br>1550<br>1550<br>1550<br>1550                                                  | Into °C<br>Stat for<br><u>Autor</u><br><u>16</u><br><u>5.6</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Physics<br>Restark<br>1325<br>1550<br>1550<br>1550<br>1615                                                                | I Appearan           Image: Start Runger           Allow           I G           Start Runger           I S. 6           I S. 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Conductivity<br>Conductivity<br>1 <u>p.pe</u><br><u>480</u><br><u>480</u>                                                                                           | $\begin{array}{c} \underline{1}\\  | 0vad <sup>gals</sup> <u>Flov Rasa</u> <u>DO</u> <u>Q</u><br><u>62.5 71</u><br><u>188</u> <u>BO</u> <u>7</u><br><u>250</u> <u>75 76</u> <u>76</u><br><u>250</u> <u>75 76</u> <u>76</u><br><u>2590</u> <u>7.6</u><br><u>11</u> <u>7.6</u>                                                                    |      |
| Physics<br>Remark<br>71141<br>1325<br>1605<br>1605<br>1605<br>1625                                                        | I Appearan<br>I I Appearan<br>I I I I I I I I I I I I I I I I I I I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Conductivity<br>Conductivity<br>1 <u>P.Pe</u><br><u>480</u><br><u>480</u><br><u>480</u>                                                                             | $\begin{array}{c} \underline{1}\\  | DVad 94 <sup>13</sup> Plov Rata DO Q<br><u>62.5 TP</u><br><u>188</u> <u>BO 70</u><br><u>250</u> <u>75 70</u><br><u>250</u> <u>75 70</u><br><u>50</u> (end to reduce to 1236'<br><u>7.6</u><br><u>7.6</u><br><u>11</u><br><u>7.6</u><br><u>7.6</u><br><u>7.6</u>                                            | *    |
| Physics<br>Remark<br>(325<br>(325<br>(325)<br>(325)<br>(325)<br>(325)<br>(50)<br>(50)<br>(625)<br>(625)<br>(625)          | I Appearan           Impos           Start           Allow           IS.6           IS.6           IS.6           IS.6           IS.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Conductivity<br>Conductivity<br>1 <u>P.Pe</u><br>481<br>480<br>480<br>480<br>479                                                                                    | $\begin{array}{c} \begin{array}{c} \begin{array}{c} 1 \\ \hline 1$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 62.571<br><u>62.571</u><br><u>188</u><br><u>62.571</u><br><u>188</u><br><u>62.571</u><br><u>76</u><br><u>7576</u><br><u>7590</u><br><u>7590</u><br><u>7590</u><br><u>76</u><br><u>7.6</u><br><u>1236'</u><br><u>7.6</u><br><u>11</u><br><u>7.6</u><br><u>1275</u><br><u>11</u><br><u>7.6</u><br><u>7.7</u> |      |
| Physics<br>Restark<br>1325<br>1550<br>1550<br>1615<br>1625<br>1625                                                        | 1 Appearan<br>1 Appe                                                                                                                          | Conductivity<br>Conductivity<br>1 <u>PPE</u><br><u>480</u><br><u>480</u><br><u>480</u><br><u>479</u>                                                                | $\begin{array}{c} \begin{array}{c} \begin{array}{c} 1 \\ \hline 1$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DVad 94 <sup>13</sup> Plov Rata DO Q<br><u>62.5 TP</u><br><u>188</u> <u>BO 70</u><br><u>250</u> <u>75 70</u><br><u>250</u> <u>75 70</u><br><u>50 (ond to reduce to 1236'</u><br><u>7.6</u><br><u>7.6</u><br><u>7.6</u><br><u>11</u><br><u>7.7</u>                                                          |      |
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| Physics<br>Restark<br>1325<br>1550<br>1550<br>1615<br>1625<br>1625                                                        | 1 Appearan<br>1 Appe                                                                                                                          | Eonductivity<br>1 <u>P.Pe</u><br><u>480</u><br><u>480</u><br><u>480</u><br><u>480</u><br><u>479</u><br><u>479</u><br><u>478</u>                                     | $\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1\\ \end{array} \\ $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DVad 94 <sup>13</sup> Plov Rata DO Q<br><u>62.5 TP</u><br><u>188</u> <u>BO 70</u><br><u>250</u> <u>75 70</u><br><u>250</u> <u>75 70</u><br><u>50 (ond to reduce to 1236'</u><br><u>7.6</u><br><u>7.6</u><br><u>7.6</u><br><u>11</u><br><u>7.7</u>                                                          |      |
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| Physics<br>Remark<br>1325<br>1550<br>1550<br>1550<br>1615<br>1625<br>1625<br>1625<br>1625<br>1625                         | 1 Appearan<br>1 S. 6<br>1 S. 6<br>1 S. 5<br>1 | Eonductivity<br>1 <u>P.Pe</u><br><u>480</u><br><u>480</u><br><u>480</u><br><u>480</u><br><u>479</u><br><u>479</u><br><u>478</u>                                     | $\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\frac{62.5 \text{ TP}}{188} = \frac{100}{76} \frac{62.5 \text{ TP}}{1236}$ $\frac{188}{250} = \frac{250}{75} \frac{75}{75} \frac{76}{1236} = \frac{7.6}{7.6}$ $\frac{75 \text{ gp}}{7.6} = \frac{7.6}{7.6}$ $\frac{11}{7.7} = \frac{11}{7.7}$                                                             |      |
| Physics<br>Remark<br>1325<br>1550<br>1550<br>1550<br>1550<br>1615<br>1615<br>1625<br>1625<br>1625<br>1625<br>1625<br>1625 | 1 Appearan<br>1 S. 6<br>1 S. 6<br>1 S. 5<br>1 | Eonductivity<br>Eonductivity<br>1 <u>P.Pe</u><br><u>480</u><br><u>480</u><br><u>480</u><br><u>480</u><br><u>479</u><br><u>479</u><br><u>478</u><br><i>curpidity</i> | $\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\ \begin{array}{c} 1 \\ \end{array} \\$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\frac{62.5 \text{ TP}}{188} = \frac{100}{76} \frac{62.5 \text{ TP}}{1236}$ $\frac{188}{250} = \frac{250}{75} \frac{75}{75} \frac{76}{1236} = \frac{7.6}{7.6}$ $\frac{75 \text{ gp}}{7.6} = \frac{7.6}{7.6}$ $\frac{11}{7.7} = \frac{11}{7.7}$                                                             |      |

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| Black & Veatch Special Projects Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ארק.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Page of                                                                                                                                                                                                                          |
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| Project Number<br>46118.12.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Project Name<br>Acr. Services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7-14-00                                                                                                                                                                                                                          |
| Monitor Well Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Field Investigator(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                  |
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| METHOD OF WELL DEVELOPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PHOTOGRAPH IDENTIFICATI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ON NO.                                                                                                                                                                                                                           |
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| 1133 Bern Pumpins @ 750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 75 spn<br>1.5 mg/c her C. field                                                                                                                                                                                                  |
| 1133 Bern Pumping @ 750<br>1338 Still pumping Stating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | gon<br>top working down the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 75pm<br>1.5 mg/c her C- field                                                                                                                                                                                                    |
| 1133 Bern Pumping @ 750<br>1338 Still pumping @ 750<br>1345 Wets level 134, 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | gpm<br>top working down <b>Bedelight</b><br>5' 134450 435                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.5 mg/L her C. field                                                                                                                                                                                                            |
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| 1133     Bern     Pumping @ 75 e       1338     31-11     Northing of 15 e       1345     Wetti level 134.4       1345     Wetti level 134.4       1400     16       476       117     15       1420     15       1425     15       1425     15       1420     15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | gpn<br>5 top working down <b>Bed 41</b><br>5 13445 bys<br>6.8 (b)<br>7.0 74 105 - 17 35 35 - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\frac{75_{10}}{2375_{10}} \frac{5.06}{4.7}$ $\frac{75_{10}}{25_{10}} \frac{5.06}{4.7}$ $\frac{75_{10}}{4.7}$ $\frac{4.7}{11}$ $\frac{4.6}{4.6}$                                                                                 |
| 1133       Bern       Pumping @ 75 e         1338       3+:11       Norting, Stating @         1345       1245       level 134, 4         1345       125       476         1400       16       476         111       15       473         1420       15       471         1425       15       472         1425       15       472         1425       15       472         1450       15       472                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | gpn<br>5 top working down <b>Bed 41</b><br>5 13445 bys<br>6.8 (b)<br>7.0 74 105 - 17 35 35 - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\frac{75_{10}}{1.5_{10}} = \frac{75_{10}}{5.06}$ $\frac{75_{10}}{75_{10}} = \frac{5.06}{4.7}$ $\frac{75_{10}}{4.7} = \frac{4.7}{4.7}$ $\frac{1}{11} = \frac{4.6}{4.6}$                                                          |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | gpn<br>5 top working down <b>Bed 41</b><br>5 13445 bys<br>6.8 (b)<br>7.0 74 105 - 17 35 35 - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\frac{75_{10}}{1.5_{10}} = \frac{5.06}{4.7}$ $\frac{75_{10}}{2375_{4c}} = \frac{5.06}{4.7}$ $\frac{75_{90}}{4.7} = \frac{4.7}{4.6}$ $\frac{11}{4.6}$ $\frac{11}{4.6}$                                                           |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $\begin{array}{c} \mathbf{g} \mathbf{p} \mathbf{n} \\ \mathbf{f} \mathbf{p} \\ \mathbf{f} \mathbf{f} \mathbf{p} \\ \mathbf{f} \mathbf{f} \mathbf{p} \\ \mathbf{f} \mathbf{f} \mathbf{f} \mathbf{f} \mathbf{p} \\ \mathbf{f} \mathbf{f} \mathbf{f} \mathbf{f} \mathbf{f} \mathbf{f} \mathbf{f} \mathbf{f}$ | $\frac{75_{10}}{1.5_{10}} = \frac{5.06}{5.06}$ $\frac{2375_{10}}{2375_{10}} = \frac{5.06}{75_{10}} = \frac{4.7}{4.7}$ $\frac{75_{10}}{11} = \frac{4.7}{4.6}$ $\frac{11}{11} = \frac{4.6}{4.6}$ $\frac{11}{11} = \frac{4.6}{4.6}$ |
| 1133       Bern       Pumping @ 75 e         1338 $3+11$ $n - qing$ , stating @         1345 $j_1d_5$ $j_2d_5$ 1345 $j_1d_5$ $j_2d_5$ 1345 $j_1d_5$ $j_2d_5$ 1400       16       476         11       15       476         11       15       471         1425       15       471         1425       15       472         1425       15       472         1450       15       472         1450       15       472         1450       15       472         1450       15       472         1450       15       472         1450       15       472         1511       15       472         1511       500       472         1511       15       472         1511       15       472         1511       15       472         1511       15       472         1511       15       472         1512       600       600         NTU = Nephelometric turbidity       15< | $\begin{array}{c} g pr \\ f p $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | $\frac{75_{10}}{1.5_{10}} = \frac{5.06}{5.06}$ $\frac{2375_{10}}{2375_{10}} = \frac{5.06}{75_{10}} = \frac{4.7}{4.7}$ $\frac{75_{10}}{11} = \frac{4.7}{4.6}$ $\frac{11}{11} = \frac{4.6}{4.6}$ $\frac{11}{11} = \frac{4.6}{4.6}$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $\begin{array}{c} g pr \\ f p $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | $\frac{75_{10}}{1.5_{10}} = \frac{5.06}{5.06}$ $\frac{2375_{10}}{2375_{10}} = \frac{5.06}{75_{10}} = \frac{4.7}{4.7}$ $\frac{75_{10}}{11} = \frac{4.7}{4.6}$ $\frac{11}{11} = \frac{4.6}{4.6}$ $\frac{11}{11} = \frac{4.6}{4.6}$ |

| Black & Veatch Special Projects Corp.                                    |                                                                                  | Page l of l                                           |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------|
| MO                                                                       | NITORING WELL                                                                    |                                                       |
| DEVELOF                                                                  | MENT/PURGING DATA                                                                | 1                                                     |
| Project Number<br>46118                                                  | Project Name<br>Acc Services                                                     | Dete<br>09-19-00 T                                    |
| Monitor Well Number<br>MW-1-5                                            | Field Investigator(s)<br>Kyle Madden                                             | ······································                |
| WELL DATA<br>INITIAL DEPTH 10200'<br>Total Depth 25'<br>Well Diameter 4" | Water Column Height [<br>Well Volume (gals) (x)(height) x=.163 gal/ft @          | T , X033 BET/IC E 4                                   |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing        | PHOTOGRAPH IDENTIFICATION NO                                                     | 1                                                     |
| WATER SAMPLING DATA Micro<br>Method of Water Removal Qump                | Was Well Pumped Dr                                                               | yi Yes No                                             |
| 3 Well Volumes The NA gals                                               | -                                                                                |                                                       |
| FINAL FIELD ANALYSIS<br>Water Temp 19.56 °C Specific Con                 | ductance <u>DYS</u> micromhos pH <u>680</u>                                      | Turbidity <u>25</u>                                   |
| Physical Appearance Normal                                               |                                                                                  | т                                                     |
| Remarks Micro                                                            | urge                                                                             |                                                       |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                    | pH       NTUs       VI.       Removed       F1         tu.       at       107.00 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| NTU - Nephelometric turbidity unit<br>WL - Water level                   | t <b>s</b>                                                                       |                                                       |
| Checked By 27-F.                                                         |                                                                                  | Date 9.26-00                                          |

| Black & Veatch Special                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MONI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TOBING WELL<br>ENT/PURGING I                                                                                                           | ΔΤΔ                          | raye             | of                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|----------------------------------------------|
| Project Number<br>46118                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | roject Name<br>Are. Sorv.ces                                                                                                           |                              | Date<br>Og       | -19-00                                       |
| Monitor Well Number_d                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | **** F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ield Investigator(<br>Kyle Madden                                                                                                      | s )                          | ł                |                                              |
| WELL DATA /<br>INITIAL DEPTH 107<br>Total Depth 107<br>Well Diameter<br>METHOD OF WELL DEVELO<br>Pumping                                                                                                                                                                                                                                                                                                                                                                                   | 207<br><u>4</u> "<br>OPMENT<br>Air Lift                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6                                                                                                                                      | eight<br>als)<br>=.163 gal/f | t ( 2°, x=.      | 653 gal,                                     |
| Surging<br>WATER SAMPLING DATA<br>Method of Water Remov                                                                                                                                                                                                                                                                                                                                                                                                                                    | Micro-Pur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 52<br>Was                                                                                                                              | Well Pumped                  | Dry? Y           | ies (                                        |
| 3 Well Volumes                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                        |                              |                  |                                              |
| Water Temp <u>9.10</u> °C<br>Physical Appearance<br>Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                        |                              |                  |                                              |
| Physical Appearance<br>Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                             | onductivity p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                        | Removed                      | Flow Rate        | Do                                           |
| Physical Appearance<br>Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                             | unductivity p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | C 10707                                                                                                                                |                              |                  | _Do                                          |
| Physical Appearance<br>Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                             | unductivity p<br>water measured<br>acted and adju                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | to 1.0 L/min                                                                                                                           |                              | 1.0 L/ m.a       |                                              |
| Physical Appearance<br>Remarks www. Now<br>TIME Temp oc Co<br>II40 Depth to Lo<br>II47Pumping St<br>II51116                                                                                                                                                                                                                                                                                                                                                                                | unductivity p<br>water measured<br>articl and adjust<br>1130 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 107.07<br>10 10 10 L/min<br>18 1.9 10 L/min<br>18 1.9 107.29                                                                           |                              | 1.04/10-0        | <br>0.61<br>0.47                             |
| Physical Appearance<br>Remarks <u>www</u> Now<br><u>TIME Ieep °C Co</u><br><u>1140 Depth to La</u><br><u>1147 Pumping Sta</u><br><u>115119.16</u><br><u>120019.17</u>                                                                                                                                                                                                                                                                                                                      | unductivity p<br>water measured<br>arted and adju-<br>11306.<br>11296.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 107.07<br>107.07<br>10 10 10 1/m<br>10 1.9<br>107.29<br>10 <u>2.7</u><br>107.4                                                         |                              | 1.01/10:0        | 0.61                                         |
| Physical Appearance<br>Remarks <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | enductivity p<br>water measured<br>actual and adjust<br>11306.<br>11296.<br>11296.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 107.07<br>10 10 10 L/min<br>18 1.9 10 L/min<br>18 1.9 107.29                                                                           |                              | <u>1.01/m·a</u>  | 0.61<br>0.47<br>0.35<br>0.31                 |
| Physical Appearance<br>Remarks <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | onductivity p<br>water measured<br>actual and adjust<br>1130 6.<br>1129 6.<br>1129 6.<br>1106 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 107.07<br>107.07<br>10 10 10 1/min<br>10 1.9 107.29<br>10 <u>2.7</u> 107.41<br>12 <u>1.1</u> 107.31                                    |                              | 1.0 L/m·n        | 0.61<br>0.47<br>0.35<br>0.31<br>0.70         |
| Physical Appearance<br>Remarks <u></u> <u></u><br><u>TIME</u> <u></u> <u></u> <u></u><br><u>1140</u> <u></u> <u>Pepth</u> -to <u></u><br><u>1147</u> <u></u> <u>Pumping</u> <u>St</u><br><u>1151</u> <u></u> <u>19.16</u><br><u>1200</u> <u></u> <u>19.17</u><br><u>1218</u> <u></u> <u>18.91</u><br><u>1218</u> <u></u> <u>18.91</u>                                                                                                                                                      | <u>enductivity</u> p<br><u>water measured</u><br><u>articl and adju</u><br><u>1130 6.</u><br><u>1139 6.</u><br><u>1139 6.</u><br><u>1106 6.</u><br><u>1107 6.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 107.07<br>107.07<br>10 10 10 1/min<br>10 1.9 107.29<br>10 2.7 107.4<br>10 2.7 107.4<br>12 1.1 107.31<br>12 1.8 107.31<br>72 1.8 107.31 |                              | <u>1.0 L/m·n</u> | 0.61<br>0.47<br>0.35<br>0.31<br>0.70         |
| Physical Appearance<br>Remarks $\rightarrow \rightarrow                                                                                                                                                                                                                        | enductivity p<br>voter measured<br>arted and adju<br>1130 6.<br>1130 6.<br>1100 6.<br>1                                                                                                                                                                                           | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                  |                              | <u>1.01/m·n</u>  | 0.61<br>0.47<br>0.35<br>0.31<br>0.70<br>0.28 |
| Physical Appearance<br>Remarks $\rightarrow \rightarrow                                                                                                                                                                                                                        | enductivity p<br>water measured<br>arted and adjust<br>1130 6.<br>1130 6.<br>1100 6.                                                                                                                                                                                              | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                  |                              | <u>1.01/m</u>    | 0.61<br>0.47<br>0.35<br>0.31<br>0.70<br>0.28 |
| Physical Appearance<br>Remarks $\rightarrow \rightarrow                                                                                                                                                                                                                        | enductivity p<br>water measured<br>arted and adjust<br>1130 6.<br>1130 6.<br>1100 6.                                                                                                                                                                                              | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                  |                              | <u>1.01/m</u>    | 0.61<br>0.47<br>0.35<br>0.31<br>0.70<br>0.28 |
| Physical Appearance<br>Remarks <u></u> <u>Now</u><br><u>TIME</u> <u>IEED °C</u> <u>Co</u><br><u>II40</u> <u>Pepth</u> -to <u>U</u><br><u>II40</u> <u>Pepth</u> -to <u>U</u><br><u>II51</u> <u></u> <u>Pumping</u> <u>St</u><br><u>II51</u> <u></u> <u>19.16</u><br><u>I200</u> <u></u> <u>19.17</u> <u></u><br><u>I211</u> <u></u> <u>18.81</u> <u></u><br><u>I218</u> <u></u> <u>18.91</u> <u></u><br><u>I236</u> <u></u> <u>19.10</u> <u></u><br><u>I239</u> <u></u> <u>water</u> Sample | enductivity p<br>water measured<br>arted and adjust<br>1130 6.<br>1130 6.<br>1100 6.                                                                                                                                                                                              | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                  |                              | <u>1.01/m</u>    | 0.61<br>0.47<br>0.35<br>0.31<br>0.70<br>0.28 |
| Physical Appearance<br>Remarks <u></u> <u>Norc</u><br><u>TIME</u> <u>IEED °C</u> <u>Co</u><br><u>II40</u> <u>Depth</u> -to <u>U</u><br><u>II47</u> <u>Pumping St</u><br><u>II51</u> <u>19.16</u><br><u>I200</u> <u>19.17</u> <u></u><br><u>I211</u> <u>1851</u> <u></u><br><u>I218</u> <u>18.97</u> <u></u><br><u>I236</u> <u>19.10</u> <u></u><br><u>I239</u> <u></u><br><u>Uster Sample</u>                                                                                              | enductivity p<br>water measured<br>arted and adju<br>1130 6.<br>1130 6.<br>1100 6.<br>1100 6.<br>1100 6.<br>1100 6.<br>1100 6.<br>1110 7.<br>1110 6.<br>1111  6.<br>11111 6.<br>11111 6.<br>11111 6.<br>11111 6.<br>11111 6.<br>11111 6.<br>111111 6.<br>1111111 6.<br>1111111111 | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                  |                              | <u>1.01/m</u>    | 0.61<br>0.47<br>0.35<br>0.31<br>0.70<br>0.28 |

| Black & Veatch Special Projects Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | prp.                                                                                                                                                                                                                                                                                                    | Page \ of (                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MONITORING WELL                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                    |
| DEVEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | OPMENT/PURGING DATA                                                                                                                                                                                                                                                                                     | T                                                                                                                                                                                                                                  |
| Project Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Project Name<br>Ace Services                                                                                                                                                                                                                                                                            | Date<br>09-19-00                                                                                                                                                                                                                   |
| Monitor Well Number<br>MW-1- D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Field Investigator(s)<br>Kile Malda                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                    |
| WELL DATA<br>INITIAL DEPTH 106.56<br>Total Depth 220<br>Well Diameter 5"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                         | /ft @ 2°, x=.653 gal/ft @ 4°                                                                                                                                                                                                       |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PHOTOGRAPH IDENTIFICATIO                                                                                                                                                                                                                                                                                | ои ис.                                                                                                                                                                                                                             |
| WATER SAMPLING DATA Micro<br>Method of Water Removal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | o-Purge<br>mping Was Well Pumpe                                                                                                                                                                                                                                                                         | ed Dry? Yes No                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | gals Amount of Water Removed f                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                    |
| FINAL FIELD ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                    |
| Water Temp 17.62 °C Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Conductance 425 micromhos pH_                                                                                                                                                                                                                                                                           | 1.>0 Turbidity 2.8                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                    |
| Physical Appearance <u>Porma</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | al                                                                                                                                                                                                                                                                                                      | г                                                                                                                                                                                                                                  |
| Physical Appearance <u>Porma</u><br>Remarks <u>None</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>a)</u>                                                                                                                                                                                                                                                                                               | [<br>                                                                                                                                                                                                                              |
| Remarks <u>None</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                         | Flow Rate DO ORP                                                                                                                                                                                                                   |
| Remarks <u>None</u><br>( <u>TIME Temp °C Conductivity</u><br>Dept <u>1. water measure</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | x <u>pH NTUS WL Removed</u><br>ed at 106,56 P1                                                                                                                                                                                                                                                          | Flow Rate DO ORP                                                                                                                                                                                                                   |
| Remarks <u>None</u><br><u>GIME TERP °C Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u> | x <u>pH</u> <u>NTUS</u> <u>WL</u> <u>Removed</u><br>ed at <u>106.56</u> <u>P1</u><br>djust <u>ed</u> to <u>1.0</u> L/mia                                                                                                                                                                                |                                                                                                                                                                                                                                    |
| Remarks <u>None</u><br><u>CTIME TERP °C Conductivity</u><br><u>Dept to water measure</u><br>0910 <u>Parene</u> 5tady-flow as<br>0918 16.53 <u>418</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2 <u>pH</u> <u>NTUS</u> <u>WL</u> <u>Removed</u><br>ed at <u>10656</u> <u>P1</u><br>ijust <u>ed</u> to <u>1.0</u> <u>L/mia</u><br><u>7.15 6.3 <u>10677</u></u>                                                                                                                                          | 7.88 183.8                                                                                                                                                                                                                         |
| Remarks <u>None</u><br><u>CTIME TERP °C Conductivity</u><br><u>Copt to water measure</u><br><u>COPIO Caneny Stader-Stade</u><br><u>COPIS 16.53 4/18</u><br><u>COPIS 17.84 430.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2 <u>pH</u> <u>NTUS</u> <u>WL</u> <u>Removed</u><br>ed at <u>10656</u> <del>P1</del><br><u>ijusted to 1.0 L/ma</u><br><u>7.15 6.3 10671</u><br><u>7.27 5.2 106.79</u>                                                                                                                                   | <u> </u>                                                                                                                                                                                                                           |
| Remarks <u>None</u><br><u>CTIME TERP C Conductivity</u><br><u>Copt to water measure</u><br><u>0910 Langua</u> State - Star<br><u>0910 Langua</u> State - Star<br><u>0918 16.53 4118</u><br><u>0925 17.84 430.</u><br><u>0929 1769 429</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u>pH</u> <u>NTUS</u> <u>WL</u> <u>Removed</u><br><u>ed</u> <u>at</u> <u>10656</u> <u>P1</u><br><u>ijust d</u> to <u>1.0</u> <u>C/ma</u><br><u>7.15</u> <u>6.3</u> <u>10677</u><br><u>7.27</u> <u>5.2</u> <u>106.79</u><br><u>7.27</u> <u>4.3</u> <u>106.79</u>                                         | <u> </u>                                                                                                                                                                                                                           |
| Remarks None         "C Conductivity         "Dept 40 water measure         0910       Camput State for flow at         0925       17.64       418         0925       17.64       430         0927       17.64       430                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>ph</u> <u>NTUs</u> <u>WL</u> <u>Removed</u><br><u>ad</u> <u>at</u> <u>10656</u> <u>P1</u><br><u>ijust d</u> to <u>1.0</u> <u>C/ma</u><br><u>7.15</u> <u>6.3</u> <u>10677</u><br><u>7.27</u> <u>5.2</u> <u>106.79</u><br><u>7.27</u> <u>4.3</u> <u>106.79</u><br><u>7.26</u> <u>3.1</u> <u>106.80</u> | $\frac{788}{7.76} \frac{183.8}{42.4}$ $\frac{7.76}{2.79} \frac{116.0}{116.0}$ $\frac{780}{7.80} \frac{102.0}{10}$                                                                                                                  |
| Remarks None         (TIME TERP °C Conductivity         Dept 40 water measure         09/0       Camput Stady Measure         09/25       17.84         0929       17.64         0944       17.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                    | $   \begin{array}{c cccccccccccccccccccccccccccccccccc$                                                                                                                                                                            |
| Remarks None         (TIME Temp °C Conductivity         Dept 40 water measure         Opp 40 water measure         0910       Vaneus 5tady-flow as         0910       Vaneus 5tady-flow as         0918       16.53         0925       17.69         0927       17.69         0928       17.69         0929       17.64         0944       17.70         0952       17.62         0952       17.62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                    | $\frac{788}{7.76} \frac{183.8}{42.4}$ $\frac{7.76}{2.79} \frac{116.0}{116.0}$ $\frac{780}{7.80} \frac{102.0}{10}$                                                                                                                  |
| REDITINE TERP °C Conductivity         Opply       Image of the water measure         0910       Varies March Measure         0910       Varies Stady - Stady - Stady         0925       17.84         0925       17.64         0927       17.64         0929       17.62         0924       17.70         0925       17.62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                    | $   \begin{array}{c cccccccccccccccccccccccccccccccccc$                                                                                                                                                                            |
| Remarks None         (TIME Temp °C Conductivity         Dept 10. water measure         Opp 10       Campus Stady-flow as         Opp 10       Campus Stady -flow as         Opp 13       17.69       429         Opp 17       17.62       428         Opp 12       17.62       428                                                                                                                                                                                                    | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                    | $   \begin{array}{c cccccccccccccccccccccccccccccccccc$                                                                                                                                                                            |
| Remarks None         (TIME Temp °C Conductivity         Dept 10. water measure         Opp 10       Campus Stady-flow as         Opp 10       Campus Stady -flow as         Opp 13       17.69       429         Opp 17       17.62       428         Opp 12       17.62       428                                                                                                                                                                                                    | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                    | $   \begin{array}{c cccccccccccccccccccccccccccccccccc$                                                                                                                                                                            |
| Remarks None         (TIME Temp °C Conductivity         Dept 40. water measure         Opp 40. water measure         OP10       Camput Stady - flow of         OP10       Camput Stady - flow of         OP10       Camput Stady - flow of         OP125       17.84       430.         OP25       17.64       429         OP44       17.70       429         OP452       17.62       428                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                    | $   \begin{array}{c}     \hline 788 \\     \hline 7.76 \\     \hline 7.76 \\     \hline 116.0 \\     \hline 7.80 \\     \hline 7.80 \\     \hline 7.80 \\     \hline 7.80 \\     \hline 7.82 \\     \hline 96.5 \\   \end{array} $ |
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| Black & Veatch Special Projects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| WATER SAMPLING DATA M<br>Method of Water Removal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Physical Appearance Slightly<br>Remarks <u>non</u> <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Physical Appearance <u>Slightly</u><br>Remarks <u>on</u> <sup>2</sup><br><u>TIME Temp <sup>e</sup>C Conductive</u><br><u>1.754 Jointial Jepth to wate</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Physical Appearance <u>Slightly</u><br>Remarks <u>on</u> <sup>2</sup><br><u>FIME Temp <sup>e</sup>C Conductive</u><br><u>1.751</u> <i>laited lepth to unite</i><br><u>1.02 - Flow rate set to -1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>vity ph ntu</u><br><u>u at 102.49'</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Physical Appearance Slightly<br>Remarks <u>on</u> <sup>2</sup><br><u>TIME Temp °C Conductive</u><br><u>1.751</u> <u>initial depth to write</u><br><u>1.02</u> - <u>Flim rate</u> <u>set to ~10</u><br><u>1.07</u> <u>15.64</u> <u>732</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>vity ph NTU:</u><br><u>u al 102.49</u><br><u>1.0 1/min</u><br><u>692 17.4</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Physical Appearance <u>Slightly</u><br>Remarks <u>on</u> <sup>2</sup><br><u>TIME Temp <sup>e</sup>C Conductiv</u><br><u>1754</u> <i>jaitial depth to unde</i><br><u>102 - Fline rate Set to ~1</u><br><u>107 15.64</u> <u>732</u><br><u>112 16.56</u> <u>746</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Physical Appearance Slightly<br>Remarks <u>on</u> <sup>2</sup><br><u>TIME Tepp °C Conductiv</u><br><u>1751</u> <i>iaitial depth to unde</i><br><u>102 - Flow rate set to ~1</u><br><u>107 1564 732</u><br><u>112 16.56 746</u><br><u>120 - 7.44</u> 757                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Physical Appearance <u>Slightly</u><br>Remarks <u>on</u> <sup>2</sup><br><u>FIME Tepp C Conductiv</u><br><u>1251</u> <i>iaitical depth to unde</i><br><u>102 - Flice rate set to ~1</u><br><u>107 15.64 732</u><br><u>112 16.56 746</u><br><u>112 16.56 746</u><br><u>112 16.56 746</u><br><u>112 18.34 762</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Physical Appearance <u>Slightly</u><br>Remarks <u>on 2</u><br><u>TIME Tepp °C Conductiv</u><br><u>1751</u> <i>iaitial depth to unde</i><br><u>102 - Flow rate set to ~10</u><br><u>107 1564 732</u><br><u>112 16.56 746</u><br><u>112 16.56 746</u><br><u>112 16.56 746</u><br><u>112 18.20 763</u><br><u>1135 18.34 762</u><br><u>1144 18.90 765</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $y = y = e^{-y}$<br>$y = y = e^{-y}$<br>$y = y = \frac{y}{2}$<br>$y = \frac{y}{$ | <u>HL</u> <u>Remove</u><br><u>D2</u> ,49<br><u>102,62</u><br><u>102,62</u><br><u>102,62</u><br><u>102,62</u><br><u>102,62</u><br><u>102,62</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ed Flow<br>~1.0L<br>~1.0L<br>~1.0U<br>~1.0U<br>~1.0U<br>~1.0L<br>~1.0L                            | m.c.<br>4/mia 44<br>5.<br>6                                         | 0<br>27<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67 |
| Physical Appearance <u>Slightly</u><br>Remarks <u>on</u> <sup>2</sup><br><u>FIME Temp °C Conductive</u><br><u>1.754</u> <i>isitical depth</i> to write<br><u>1.02</u> - Fline rate set to ~12<br><u>1.07</u> <u>15.64</u> <u>732</u><br><u>1.07</u> <u>15.64</u> <u>732</u><br><u>1.07</u> <u>15.64</u> <u>732</u><br><u>1.07</u> <u>15.64</u> <u>732</u><br><u>1.07</u> <u>15.64</u> <u>732</u><br><u>1.07</u> <u>15.64</u> <u>757</u><br><u>1.07</u> <u>18.27</u> <u>763</u><br><u>1.055</u> <u>18.34</u> <u>762</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $y = y = e^{y}$<br>$y = y = e^{y}$<br>$y = y = e^{y}$<br>$y = y = e^{y}$<br>$y = e^{y}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>HL</u><br><u>D2</u> ,49<br><u>D2</u> ,49<br><u>102,62</u><br><u>102,62</u><br><u>102,62</u><br><u>102,62</u><br><u>102,61</u><br><u>102,61</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ed Flow<br>~1.0L<br>~1.0L<br>~1.0U<br>~1.0U<br>~1.0L<br>~1.0L<br>~1.0L                            | m.c.<br>4/mia 44<br>5.<br>6                                         | 0<br>                                                                                 |
| Physical Appearance Slightly<br>Remarks <u>on</u> <sup>2</sup><br>(TIME Temp °C Conductive<br>1.751 initial depth to under<br>1.02 - Flips rate set to ~12 $1.07$ 15.64 732<br>1.07 15.64 732<br>1.07 15.64 732<br>1.07 15.64 732<br>1.07 15.64 732<br>1.07 15.64 746<br>1.07 15.64 757<br>1.07 18.27 763<br>1.051 18.34 762<br>1.055 18.34 762<br>1.052 18.34 762<br>1.053 18.74 758<br>1.053 18.74 758                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\frac{V1}{102.49} = \frac{102.49}{102.49} = \frac{102.49}{102.62} = \frac{102.62}{102.62} = \frac{102.62}{102.61} = \frac{102.61}{102.61} = \frac{102.62}{102.62} = 102.62$ | Ed Flow<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L | m =                                                                 | 0<br>                                                                                 |
| Physical Appearance <u>Slightly</u><br>Remarks <u>on</u> <sup>2</sup><br><u>TIME Temp °C Conductive</u><br><u>1254</u> <i>jaitial depth</i> to under<br><u>127 1564</u> 732<br><u>112 16.56</u> 746<br><u>120 '7.44</u> 757<br><u>127 18.27 763</u><br><u>1135 18.34</u> 762<br><u>1144 18.90 765</u><br><u>1152 18.48 758</u><br><u>1158 18.71 754</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\frac{V1}{102.49} = \frac{102.49}{102.49} = \frac{102.49}{102.62} = \frac{102.62}{102.62} = \frac{102.62}{102.61} = \frac{102.61}{102.61} = \frac{102.62}{102.62} = 102.62$ | Ed Flow<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L | $\frac{m}{m} = \frac{1}{5}$                                         | 0<br>                                                                                 |
| Physical Appearance Slightly<br>Remarks <u>on</u> <sup>2</sup><br>(TIME Temp °C Conductive<br>1.751 initial depth to under<br>1.02 - Flips rate set to ~12 $1.07$ 15.64 732<br>1.07 15.64 732<br>1.07 15.64 732<br>1.07 15.64 732<br>1.07 15.64 732<br>1.07 15.64 746<br>1.07 15.64 757<br>1.07 18.27 763<br>1.051 18.34 762<br>1.055 18.34 762<br>1.052 18.34 762<br>1.053 18.74 758<br>1.053 18.74 758                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $y = y = e^{y}$<br>$y = y = e^{y}$<br>$y = y = e^{y}$<br>$y = y = e^{y}$<br>$y = e^{y}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\frac{V1}{102.49} = \frac{102.49}{102.49} = \frac{102.49}{102.62} = \frac{102.62}{102.62} = \frac{102.62}{102.61} = \frac{102.61}{102.61} = \frac{102.62}{102.62} = 102.62$ | Ed Flow<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L | $\frac{m}{m} = \frac{1}{5}$                                         | 0<br>                                                                                 |
| Physical Appearance Slightly<br>Remarks <u>on</u> <sup>2</sup><br><u>STIME Temp °C Conductiv</u><br>1.351 <i>isitical depth to unde</i><br>1.02 - Flize rate set to ~1000 $1.02 - Flize rate set to ~1000 1.02 - Flize rate set to ~10001.02 - Flize rate set to ~1000 1.02 - Flize rate set to ~10001.02 - Flize rate set to ~10000 1.02 - Flize rate set to ~100001.02 - Flize rate set to ~1000001.02 - Flize rate set to ~1000001.02 - Flize rate set to ~1000001.02 - Flize rate set to ~10000001.02 - Flize rate set to ~1000000000000000000000000000000000000$ | <u>yreen</u><br><u>u</u> <i>w</i> <u>102</u> . 49'<br><u>u</u> <i>w</i> <u>102</u> . 49'<br><u>10</u> <u>1</u> / <u>min</u><br><u>6.92</u> <u>17.4</u><br><u>7.05</u> <u>12.4</u><br><u>7.05</u> <u>12.4</u><br><u>7.07</u> <u>11.6</u><br><u>7.12</u> <u>11.4</u><br><u>7.15</u> <u>11.4</u><br><u>7.15</u> <u>11.4</u><br><u>7.15</u> <u>11.4</u><br><u>5.6.57</u> <u>12.4</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\frac{V1}{102.49} = \frac{102.49}{102.49} = \frac{102.49}{102.62} = \frac{102.62}{102.62} = \frac{102.62}{102.61} = \frac{102.61}{102.61} = \frac{102.62}{102.62} = 102.62$ | Ed Flow<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L | $\frac{m}{m} = \frac{1}{5}$                                         | 0<br>27<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67<br>67 |
| Physical Appearance <u>Slightly</u><br>Remarks <u>on</u> <sup>2</sup><br><u>TIME Temp °C Conductive</u><br><u>1254</u> <i>jaitial depth</i> to under<br><u>127 1564</u> 732<br><u>112 16.56</u> 746<br><u>120 '7.44</u> 757<br><u>127 18.27 763</u><br><u>1135 18.34</u> 762<br><u>1144 18.90 765</u><br><u>1152 18.48 758</u><br><u>1158 18.71 754</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>yreen</u><br><u>u</u> <i>w</i> <u>102</u> . 49'<br><u>u</u> <i>w</i> <u>102</u> . 49'<br><u>10</u> <u>1</u> / <u>min</u><br><u>6.92</u> <u>17.4</u><br><u>7.05</u> <u>12.4</u><br><u>7.05</u> <u>12.4</u><br><u>7.07</u> <u>11.6</u><br><u>7.12</u> <u>11.4</u><br><u>7.15</u> <u>11.4</u><br><u>7.15</u> <u>11.4</u><br><u>7.15</u> <u>11.4</u><br><u>5.6.57</u> <u>12.4</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\frac{V1}{102.49} = \frac{102.49}{102.49} = \frac{102.49}{102.62} = \frac{102.62}{102.62} = \frac{102.62}{102.61} = \frac{102.61}{102.61} = \frac{102.62}{102.62} = 102.62$ | Ed Flow<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L<br>~1.0L | $\frac{m}{m} = \frac{1}{5}$                                         | 0<br>                                                                                 |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                      | ONITORIAG<br>PMENT/PUI                                                        | RGING DATA                                                                                                                      |                            |                                                                                                                               | T                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|
| roject Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 46118                                                                                                                                                                                | Project Ne<br>Ace                                                             | Services                                                                                                                        | Date<br>09/1               | 8/00                                                                                                                          | T                |
| onitor Well Number $MW-2$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | r                                                                                                                                                                                    | Field Inve                                                                    | stigator(s)<br>He Madden                                                                                                        | ,                          |                                                                                                                               | -                |
| ELL DATA<br>NITIAL DEPTH<br>otal Depth<br>ell Diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 102.90'                                                                                                                                                                              | Water                                                                         | 1                                                                                                                               | gal/ft ( 2°, x-            | 653 gal/ft @ 4*                                                                                                               | -<br>- T         |
| ETHOD OF WELL DEV<br>Pumping<br>Surging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ELOPMENT<br>Air Lift                                                                                                                                                                 | РНОТО                                                                         | GRAPH IDENTIFIC                                                                                                                 | ATION NO.                  |                                                                                                                               | T                |
| ATER SAMPLING DAT<br>withod of Water Re                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | n MicPu<br>moval <u>Pump</u>                                                                                                                                                         | rige                                                                          | Was Well P                                                                                                                      | umped Dry?                 | res No                                                                                                                        |                  |
| Well Volumes _/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | •                                                                                                                                                                                    | -                                                                             |                                                                                                                                 |                            |                                                                                                                               | s                |
| ater Temp<br>hysical Appearanc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                      |                                                                               |                                                                                                                                 |                            |                                                                                                                               | <br>             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | e Green                                                                                                                                                                              |                                                                               |                                                                                                                                 |                            |                                                                                                                               | -<br>-<br>-<br>- |
| hysical Appearance<br>emarks<br>IME Temp *C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>Conductivity</u>                                                                                                                                                                  | <u>ph</u> <u>NTUs</u>                                                         | <u>WL</u> <u>Remov</u>                                                                                                          |                            |                                                                                                                               | -                |
| hysical Appearance<br>emarks<br>IME Temp °C<br>Chepth to water is<br>Ob - Stating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>Conductivity</u><br><u>itially</u> <u>messue</u>                                                                                                                                  | DH NTUS                                                                       | ML Removi<br>102.80<br>rate to 1.0                                                                                              | ed Flow Rate               | <u>Do</u> <u>orp</u>                                                                                                          |                  |
| hysical Appearance<br>emarks<br>IME Temp °C<br>Capth to water is<br>06 - <u>Stating</u><br>614 19.72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>Conductivity</u><br><u>nitially</u> <u>messured</u><br><u>pumping</u> and<br><u>751</u>                                                                                           | DH NTUS<br>H NTUS<br>H<br>J usted - <u>low</u><br>5.45 8.7                    | <u>WL</u> <u>Remove</u><br>102.80<br>rate to 1.0<br>102.82                                                                      | ed Flow Rate               | <u>Do</u> <u>orp</u><br><br>2/0 309                                                                                           |                  |
| hysical Appearance<br>emarks<br>IME Temp °C<br>depth to water to<br>Ob - Stating<br>bill 19.72<br>bill 19.72<br>bill 1953                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>conductivity</u><br><u>aitially messared</u><br><u>pumping and</u><br><u>75/</u><br><u>725</u>                                                                                    | DH NTUS<br>DH NTUS<br>it<br>is<br>SHS 8.7<br>5.40 [3.7                        | <u>WL</u> <u>Remove</u><br>102.80<br>r to <u>to 10</u><br>102.82<br>r02.82                                                      | <u>ed</u> <u>Flow Rate</u> | <u>Do</u> <u>ORP</u><br><br>2.10<br>1.86<br>215.4                                                                             | <b>6</b>         |
| hysical Appearance<br>emarks<br>depth to water to<br>06 - <u>Stating</u><br>614 19.72<br>622 1953<br>627<br>692                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u>Conductivity</u><br><u>itially messure</u><br><u>pumping</u> and<br><u>75/</u><br><u>725</u><br><u>693</u>                                                                        | DH NTUS<br>H<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M | <u>WL</u> <u>Remove</u><br>102.80<br>r to <u>to 10</u><br>102.82<br>r02.82<br>102.82                                            | <u>ed</u> <u>Flow Rate</u> | <u>Do</u> <u>ORP</u><br><u>2/0</u><br><u>309</u><br><u>1.86</u><br><u>215.4</u><br><u>2.10</u><br><u>73.</u>                  | 8                |
| hysical Appearance<br>emarks<br>IME Temp °C<br>depth to water is<br>06 - <u>Stating</u><br>644 19.72<br>622 1953<br>622 1953<br>622 1892<br>1636 18.39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>Conductivity</u><br><u>Conductivity</u><br><u>pumping</u><br><u>pumping</u><br><u>75/</u><br><u>725</u><br><u>693</u><br><u>693</u>                                               | DH NTU:<br>                                                                   | <u>WL</u> <u>Remove</u><br>N280<br>rate to 10<br>10282<br>10282<br>102.82<br>102.82<br>102.82<br>102.82                         | <u>ed</u> <u>Flow Rate</u> | <u>Do</u> <u>ORP</u><br><u>2/0</u> <u>309</u><br><u>1.86</u> <u>215</u><br><u>2.10</u> <u>73</u> .<br><u>2.35</u> <u>93.8</u> | 8                |
| hysical Appearance<br>emarks<br>depth to water $i$<br>06 - 510hirs<br>14 19.72<br>14 19.72<br>122 1953<br>121 - 18.92<br>124 11.64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>conductivity</u><br><u>conductivity</u><br><u>pumping</u><br><u>75/</u><br><u>725</u><br><u>693</u><br><u>680</u><br><u>660</u>                                                   | DH NTUS<br>                                                                   | <u>WL</u> <u>Removi</u><br>102.80<br>r te <u>to 10</u><br>102.82<br>r02.82<br>102.82<br>102.82<br>102.82<br>102.84<br>102.84    | ed Flow Rate               | DO ORP<br>2/0 309<br>1.86 215.0<br>2.10 73.<br>2.35 93.8<br>2.9 157.                                                          | 8                |
| hysical Appearance<br>emarks<br>2depth to water for $06-54erhing1419.721419.721419.721419.721422 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19551421 19551421 19551421 19551421 1$ | <u>conductivity</u><br><u>conductivity</u><br><u>pumping</u><br><u>75/</u><br><u>725</u><br><u>693</u><br><u>680</u><br><u>660</u>                                                   | DH NTUS<br>                                                                   | <u>WL</u> <u>Removi</u><br>102.80<br>r to to 10<br>102.82<br>r02.82<br>102.82<br>102.82<br>102.82<br>102.82<br>102.82<br>102.82 | ed Flow Rate               | DO ORP<br>2/0 309<br>1.86 215.0<br>2.10 73.<br>2.35 93.8<br>2.9 157.                                                          | 8                |
| hysical Appearance<br>emarks<br>2depth to water for $06-54erhing1419.721419.721419.721419.721422 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19551421 19551421 19551421 19551421 1$ | <u>conductivity</u><br><u>nitially messared</u><br><u>pumping - and</u><br><u>75/</u><br><u>725</u><br><u>693</u><br><u>693</u><br><u>680</u><br><u>660</u><br>collected <u>W-</u> / | DH NTUS<br>                                                                   | <u>WL</u> <u>Removi</u><br>102.80<br>r to to 10<br>102.82<br>r02.82<br>102.82<br>102.82<br>102.82<br>102.82<br>102.82<br>102.82 | ed Flow Rate               | DO ORP<br>2/0 309<br>1.86 215.0<br>2.10 73.<br>2.35 93.8<br>2.9 157.                                                          | 8                |
| hysical Appearance<br>emarks<br>2depth to water for $06-54erhing1419.721419.721419.721419.721422 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19551421 19551421 19551421 19551421 1$ | <u>conductivity</u><br><u>nitially messared</u><br><u>pumping - and</u><br><u>75/</u><br><u>725</u><br><u>693</u><br><u>693</u><br><u>680</u><br><u>660</u><br>collected <u>W-</u> / | DH NTUS<br>                                                                   | <u>WL</u> <u>Removi</u><br>102.80<br>r to to 10<br>102.82<br>r02.82<br>102.82<br>102.82<br>102.82<br>102.82<br>102.82<br>102.82 | ed Flow Rate               | DO ORP<br>2/0 309<br>1.86 215.0<br>2.10 73.<br>2.35 93.8<br>2.9 157.                                                          | 8                |
| hysical Appearance<br>emarks<br>2depth to water for $06-54erhing1419.721419.721419.721419.721422 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19531421 19551421 19551421 19551421 19551421 1$ | <u>conductivity</u><br><u>nitially messared</u><br><u>pumping - and</u><br><u>75/</u><br><u>725</u><br><u>693</u><br><u>693</u><br><u>680</u><br><u>660</u><br>collected <u>W-</u> / | DH NTUS<br>                                                                   | <u>WL</u> <u>Removi</u><br>102.80<br>r to to 10<br>102.82<br>r02.82<br>102.82<br>102.82<br>102.82<br>102.82<br>102.82<br>102.82 | ed Flow Rate               | DO ORP<br>2/0 309<br>1.86 215.0<br>2.10 73.<br>2.35 93.8<br>2.9 157.                                                          | 8                |

| Black & Veatch Special Projects (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Corp.                                                              | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MONITORING WELL<br>ELOPMENT/PURGING DATA                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Project Number<br>4618                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Project Name<br>Ace Services                                       | Date 9-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Monitor Well Number<br>Mw-2-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Field Investigator(s)<br>Feltner                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| WELL DATA<br>INITIAL DEPTH 105.31<br>Total Depth 237'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Water Column Height<br>Well Volume (gals)<br>(x)(height) x=.163 ga | )32_<br>~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Well Diameter 4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Air Lift<br>Surging Bailing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| WATER SAMPLING DATA<br>Method of Water Removal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                    | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3 Well Volumes <u>-258</u><br>FINAL FIELD ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | gale Amount of Water Removed                                       | from Well <u>~635</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Water Temp*C Specifi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ic conductancemicromhos ph                                         | Turbidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Physical Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Romarks_Greenist tin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | *                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Romarks Greenist tim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | · ·                                                                | Flow Rata D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Romarks Greenist tim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | · ·                                                                | Elow Race D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Romarks Greenist tim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LEY DK NTUE WL Bemoved                                             | 16.7 gen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Romarks Greenist tim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LEY DK NTUE WL Bemoved                                             | 16.7 gen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Remarke <u>Greenist</u> time<br><u>GIME Temp C Conductive</u><br><u>1443</u> <u>Tailid</u><br><u>1458</u> <u>Stat</u> Pump<br><u>1511</u> <u>15.7</u> <u>4731</u><br><u>1515</u> <u>15.9</u> <u>4439</u><br><u>1523</u> <u>15.7</u> <u>444</u><br><u>1523</u> <u>15.7</u> <u>444</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LEY DK NTUE WL Bemoved                                             | 16.7 gen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Remarke <u>Greenist</u> time<br><u>GTIME</u> <u>Temp °C</u> <u>Conductive</u><br><u>1443</u> <u>Tailid</u><br><u>1458</u> <u>Start</u> Pu-p<br><u>1511</u> <u>15.7</u> <u>4731</u><br><u>1515</u> <u>15.8</u> <u>439</u><br><u>1514</u> <u>15.9</u> <u>446</u><br><u>1523</u> <u>15.7</u> <u>444</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LEY DK NTUE WL Bemoved                                             | 16.7 gen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Remarke <u>Greenist</u> time<br><u>GTIME</u> <u>Temp °C</u> <u>Conductive</u><br><u>1443</u> <u>Tailid</u><br><u>1458</u> <u>Start</u> Pu-p<br><u>1511</u> <u>15.7</u> <u>4731</u><br><u>1515</u> <u>15.8</u> <u>439</u><br><u>1514</u> <u>15.9</u> <u>446</u><br><u>1523</u> <u>15.7</u> <u>444</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LEY DK NTUE WL Bemoved                                             | 76.7 gen<br>7.1<br>7.0<br>6.7<br>6.7<br>6.7<br>7.0<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7 |
| Remarke <u>Greenist</u> time<br><u>GTIME</u> <u>Temp °C</u> <u>Conductive</u><br><u>1443</u> <u>Tailid</u><br><u>1458</u> <u>Start</u> Pu-p<br><u>1511</u> <u>15.7</u> <u>4731</u><br><u>1515</u> <u>15.8</u> <u>439</u><br><u>1514</u> <u>15.9</u> <u>446</u><br><u>1523</u> <u>15.7</u> <u>444</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | · ·                                                                | 76.7 gen<br>7.1<br>7.0<br>6.7<br>6.7<br>6.7<br>7.0<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7 |
| Remarke $(3 e emin)$ $(4)$<br>(1141 $1emp \cdot c$ $conductive 1443 1a, 1$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$              | 76.7 gen<br>7.1<br>7.0<br>6.7<br>6.7<br>6.7<br>7.0<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>6.7<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7.1<br>7 |

| Black & Veatch Special Projects                                                                                                                                                                                                                                                                                                                                                                                                         | Corp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Page \ of                                                                                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                         | MONITOBING WELL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |
| DEV                                                                                                                                                                                                                                                                                                                                                                                                                                     | ELOPMENT/PURGING DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |
| Project Number                                                                                                                                                                                                                                                                                                                                                                                                                          | Project Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Date                                                                                     |
| 46118                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ace Services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 9-22-00                                                                                  |
| Monitor Well Number<br>MV-3-D                                                                                                                                                                                                                                                                                                                                                                                                           | Field Investigator(s)<br>G. Felk-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |
| INITIAL DEPTH 104, 91                                                                                                                                                                                                                                                                                                                                                                                                                   | STOCWater Column HeighWell Volume (gals)(x) (height) x=.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u> </u>                                                                                 |
| Total Depth                                                                                                                                                                                                                                                                                                                                                                                                                             | Well Volume (gals)<br>(x)(height) x=.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\frac{117.5}{3^{-}gal/ft} = 2^{\circ}, x=.653^{\circ}gal/ft}$                           |
| Well Diameter 5"                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | z ,4/4 @ 5"                                                                              |
| METHOD OF WELL DEVELOPMENT                                                                                                                                                                                                                                                                                                                                                                                                              | PHOTOGRAPH IDENTIF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ICATION NO.                                                                              |
| Air Lif                                                                                                                                                                                                                                                                                                                                                                                                                                 | t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                          |
| Surging Bailing                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |
| WATER SAMPLING DATA                                                                                                                                                                                                                                                                                                                                                                                                                     | buerrible Pump Was Well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Burned Devil You                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         | — – – · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |
| 3 Well Volumes352                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | oved from Well 46>                                                                       |
| FINAL FIELD ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |
| Water Temp*C Specif                                                                                                                                                                                                                                                                                                                                                                                                                     | ic Conductancemicromhos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | pH Turbidity                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |
| Physical Appearance                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |
| Physical Appearance                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |
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| Physical Appearance                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |
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| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | oved Flow-Rate DO                                                                        |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>vity pH NTUs WL Rem</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                          |
| Remarks<br><u>GTIME Temp °C Conductiv</u><br><u>]116 I:.1:al W.L</u>                                                                                                                                                                                                                                                                                                                                                                    | <u>vity pH NTUs WL Rem</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | oved Flow-Rate DO                                                                        |
| Remarks<br><u> <u> <u> <u> </u> </u></u></u>                                                                                                                                                                                                                                                                                                                             | <u>vity pH NTUs WL Rem</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u></u>                                                                                  |
| Remarks<br><u>TIME Temp °C Conductiv</u><br><u>]116 I:.1:al W.L.</u><br><u>1140 Started proping</u><br><u>1151 149 408</u>                                                                                                                                                                                                                                                                                                              | 2112 <u>pH</u> <u>NTUs</u> <u>VL</u> <u>Rem</u><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u></u>                                                                                  |
| Remarks $$<br><u>TIME Temp °C Conductiv</u><br><u>]116 <math>\underline{T}</math>, 1; al <math>W.L</math><br/><u>1140 Started propins</u><br/><u>1141 149 408</u><br/><u>1155 149 409</u></u>                                                                                                                                                                                                                                           | 24 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>Pred</u> Flow Rate <u>DO</u><br><u></u>                                               |
| Remarks         GIME       TERD °C       Conductiv $1146$ $12.1.1.4$ $W.L$ $1140$ $54.4.4$ $90-pi-25$ $1141$ $14.9$ $408$ $1155$ $14.9$ $409$ $12.00$ $14.9$ $409$                                                                                                                                                                                                                                                                      | $\frac{11}{24} = 0 = 0$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>Pred</u> Flow Rate DO<br><u>15.5 ppr</u><br><u>7.33</u><br><u>7.23</u><br><u>7.23</u> |
| Remarks         Gamma Stress       Conductiv         Time       Temp $\bullet$ Conductiv         Time       Temp $\bullet$ Conductiv       W.L         The       Time       W.L         Time       Time       W.L         1140       Start do $\rho_{V-mpi-ns}$ 1141       14.9       408         1155       14.9       409         1200       14.9       409         1203       14.9       410                                         | $\frac{112}{12}  \underline{DH}  \underline{NTUs}  \underline{WL}  \underline{Rem} \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, 91' \\ 104, $ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    |
| Remarks         TIME       Temp °C       Conductiv $1116$ $T_{-1}, 1_{-1}$ $W.L$ $1140$ $54 + 4$ $p_{u-p_1 - 5}$ $1140$ $54 + 4$ $p_{u-p_1 - 5}$ $1141$ $14.9$ $408$ $1155$ $14.9$ $409$ $1200$ $14.9$ $410$ $1205$ $14.9$ $410$ $1206$ $14.9$ $410$                                                                                                                                                                                    | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |
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| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Noo<br>-96.21<br>~96.21'<br>-96.31'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| IED °C<br>Indial mes<br>pumping ?<br>19.03<br>                                                                   | None<br><u>Conductivity</u><br>incent of depth to<br><u>stated - Flow</u> rai<br><u>1021</u><br><u>1012</u><br><u>1032</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>ph NTU:</u><br><u>Lucter</u> :<br><u>te_adj</u> : <u><u>stad</u>;<br/><u>6.47</u><u>14.6</u><br/><u>6.45</u><u>13.4</u><br/><u>6.51</u><u>13.2</u></u>             | 96.02<br>VIIIII OTADO<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Remarks<br>(TIME<br>/(3)<br>TCSC<br>705<br>105<br>1702<br>1702<br>1702<br>1715<br>1720                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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gines<br>~96.21<br>~96.21'<br>96.31'<br>96.32'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Remarks<br>TIME<br>1630<br>1636<br>1702<br>1702<br>1702<br>1715<br>1725<br>1725                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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ra<br><u>1021</u><br><u>1012</u><br><u>1030</u><br><u>1036</u><br><u>1028</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Remarks<br>(TIME<br>1630<br>1636<br>1636<br>1636<br>1702<br>1702<br>1702<br>1715<br>1725                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IEED C<br>indial mark<br>pumping<br>19.03<br>                                                                    | None<br><u>Conductivity</u><br><del>incord of depth to</del><br><u>5 total - Flow</u> ra<br><u>1021</u><br><u>1012</u><br><u>1032</u><br><u>1036</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>DH</u> <u>NTU</u><br><u>Lucate</u> <u>=</u><br><u>te_adj</u> <u>-stad</u> <u>+</u><br><u>6.47</u> <u>14.6</u><br><u>6.45</u> <u>13.4</u><br><u>6.55</u> <u>6.7</u> | $ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \end{array}\\ \end{array}\\ \end{array}\\ \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \begin{array}{c} \end{array}\\ \end{array}\\ \begin{array}{c} \end{array}\\ \begin{array}{c} \end{array}\\ \end{array}$ \left. \begin{array}{c} \end{array}\\ \end{array} \left. \end{array} \left. \begin{array}{c} \end{array} \left. \end{array} \left. \end{array} \left. \begin{array}{c} \end{array} \left. \end{array} \left. \end{array} \left. \end{array} \left. \left. \end{array} \left. \left. \end{array} \left. \end{array} \left. \end{array} \left. \end{array} \left. \left. \end{array} \left. \end{array} \left. \left. \end{array} \left. \\ \left.  \left. |                        | 7.45 14<br>7.39 13<br>7.27 167<br>7.29 10                       |
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|                                                                      | Veatch Spe                                                                                                                    | cial Projects Corp.                                                                                                                                                                                                                                      |                                                                                 |                                                                                  |                                                                                                                    | Page                     | l of                                      | <b>I</b> '                                                                                   |
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|                                                                      | Well Number<br>MW-4-I                                                                                                         |                                                                                                                                                                                                                                                          |                                                                                 | •                                                                                | igator(s)<br>adden                                                                                                 |                          |                                           | -т                                                                                           |
| WELL DA                                                              | ATA                                                                                                                           | <b>0</b> ; - (                                                                                                                                                                                                                                           |                                                                                 |                                                                                  |                                                                                                                    |                          |                                           |                                                                                              |
| INITIAL<br>Total D                                                   | . DEPTH<br>Depth                                                                                                              | 96.50'                                                                                                                                                                                                                                                   |                                                                                 | Water C<br>Well Vo                                                               | column Height                                                                                                      |                          |                                           | -7                                                                                           |
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|                                                                      | OF WELL DEV                                                                                                                   |                                                                                                                                                                                                                                                          |                                                                                 | PHOTOGR                                                                          | APH IDENTIFICAT                                                                                                    | ION NO.                  |                                           | Ţ                                                                                            |
|                                                                      | Pumping<br>Surging                                                                                                            | Air Lift<br>Bailing                                                                                                                                                                                                                                      |                                                                                 |                                                                                  |                                                                                                                    |                          |                                           |                                                                                              |
|                                                                      |                                                                                                                               |                                                                                                                                                                                                                                                          | Barr                                                                            |                                                                                  |                                                                                                                    |                          |                                           | T                                                                                            |
| WATER S<br>Method                                                    | SAMPLING DA:<br>of Water Re                                                                                                   | IA Micor<br>Emoval <u>Pumpin</u>                                                                                                                                                                                                                         | c                                                                               |                                                                                  | Was Well Pum                                                                                                       | ped Dry7 Y               | es (No                                    | ĥ                                                                                            |
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| 7 MEIT                                                               | volumes                                                                                                                       | N gal                                                                                                                                                                                                                                                    | 5 A                                                                             | mount o                                                                          | DI WATEL KEMOVEG                                                                                                   | ITOM WEIL                | · · · · · · · · · · · · · · · · · · ·     |                                                                                              |
|                                                                      | FIELD ANALYS                                                                                                                  | SIS<br>°C Specific Co                                                                                                                                                                                                                                    | nducten                                                                         | <b></b>                                                                          | micrombos pH                                                                                                       | Turbid                   | itw                                       | т                                                                                            |
|                                                                      |                                                                                                                               |                                                                                                                                                                                                                                                          | ilduc can                                                                       |                                                                                  | p.                                                                                                                 |                          |                                           | ł                                                                                            |
| Physics                                                              | 1 Appearance                                                                                                                  | ceNormal                                                                                                                                                                                                                                                 |                                                                                 |                                                                                  |                                                                                                                    |                          |                                           | т                                                                                            |
|                                                                      |                                                                                                                               |                                                                                                                                                                                                                                                          |                                                                                 |                                                                                  |                                                                                                                    |                          |                                           | 1                                                                                            |
| Remarks                                                              | None                                                                                                                          |                                                                                                                                                                                                                                                          |                                                                                 |                                                                                  |                                                                                                                    |                          |                                           |                                                                                              |
|                                                                      |                                                                                                                               |                                                                                                                                                                                                                                                          |                                                                                 |                                                                                  |                                                                                                                    |                          |                                           |                                                                                              |
|                                                                      |                                                                                                                               |                                                                                                                                                                                                                                                          |                                                                                 |                                                                                  |                                                                                                                    |                          | ·                                         |                                                                                              |
| "TIME                                                                |                                                                                                                               | Conductivity                                                                                                                                                                                                                                             | рH                                                                              | NTU:                                                                             | WL Removed                                                                                                         | Flow Rate                | DO                                        |                                                                                              |
| 1526                                                                 |                                                                                                                               | a depth to w                                                                                                                                                                                                                                             | ates                                                                            |                                                                                  |                                                                                                                    |                          |                                           | ORP                                                                                          |
| 1027                                                                 |                                                                                                                               | •                                                                                                                                                                                                                                                        |                                                                                 |                                                                                  | 96.50'                                                                                                             |                          |                                           | ORP                                                                                          |
| 1537                                                                 |                                                                                                                               | pumping - Flow                                                                                                                                                                                                                                           | adjuster                                                                        |                                                                                  | 1.0_L/min                                                                                                          |                          |                                           | <br>]                                                                                        |
| 1542                                                                 | 18.05                                                                                                                         | 870                                                                                                                                                                                                                                                      | 6.34                                                                            | 4.8                                                                              | 1.0_L/mi2<br>96.56'                                                                                                | 1.0 L/mm                 | 6.45                                      | 180.1                                                                                        |
| 154 <u>7</u><br>1549                                                 | 18.05<br>18.22                                                                                                                | <u>870</u><br>874                                                                                                                                                                                                                                        | <b>نيتر</b> ي<br>کل <u>د م</u> ا                                                | 4.8                                                                              | 1.0_L/m:2<br><u>96.56</u> ′<br><u>96.54</u> ′                                                                      |                          | 6.38                                      | <u></u><br><u>180. [</u><br>154.5                                                            |
| 1547<br>1549<br>1558                                                 | 18.05                                                                                                                         | 870                                                                                                                                                                                                                                                      | 6 <u>.3</u> 8<br>6 <u>.3</u> 8<br>6.6/                                          | <u>4.8</u><br><u>2.3</u><br><u>1.9</u>                                           | 1.0_1/m:2<br><u>96.56</u> /<br><u>96.</u> 52 /                                                                     | <u>I.e Elmn</u>          | 6.38                                      | <u>180.  </u><br><u>154.5</u><br><u>134.0</u>                                                |
| 154 <u>7</u><br>1549                                                 | 18.05<br>18.22<br>18.81<br>18.51                                                                                              | <u></u>                                                                                                                                                                                                                                                  | نيكلا<br><u>نيكلا</u><br>ن <u>ن</u> كلا<br>ن <u>ن</u> ك                         | <u>4.8</u><br><u>2.3</u><br><u>1.9</u><br><u>1.9</u>                             | 1.0_L/m:2<br><u>96.5</u> 6'<br><u>96.52'</u><br><u>96.52'</u><br><u>96.54'</u>                                     | <br>                     | <u>6.38</u><br><u>6.36</u><br><u>6.25</u> | <u>180.  </u><br><u>154.5</u><br><u>134.0</u><br><u>127.2</u>                                |
| 1547<br>1549<br>1558                                                 | 18.05<br>18.22<br>18:81                                                                                                       | <u>- ८७२५</u><br>                                                                                                                                                                                                                                        | مح <u>لامی</u><br>/ <u>کی می</u><br>(م) می می<br>(م) می می<br>می می می          | <u>48</u><br><u>23</u><br><u>19</u><br><u>19</u><br><u>28</u>                    | <u>96.52</u><br><u>96.52</u><br><u>96.52</u><br><u>96.52</u>                                                       |                          | 6.38<br>6.36<br>6.25<br>6.08              | <u>180.1</u><br><u>154.5</u><br><u>134.0</u><br><u>127.2</u><br><u>117.3</u>                 |
| 1547<br>1549<br>1558<br>1606                                         | 18.05<br>18.22<br>18.81<br>19.51<br>19.09<br>19.21                                                                            | <u>870</u><br><u>874</u><br><u>881</u><br><u>858</u><br><u>858</u><br>858                                                                                                                                                                                | مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>م | <u>4.8</u><br><u>2.3</u><br><u>1.9</u><br><u>1.9</u><br><u>2.8</u><br><u>3.1</u> | 1.0_L1m:n         96.56'         96.52'         96.52'         96.53'         96.53'         96.53'         96.53' |                          | <u>6.38</u><br><u>6.36</u><br><u>6.25</u> | <u>180.  </u><br><u>154.5</u><br><u>134.0</u><br><u>127.2</u>                                |
| 1547<br>1549<br>1558<br>1606<br>1611                                 | 18.05<br>18.22<br>18.81<br>19.51<br>19.09<br>19.21                                                                            | <u>- ८७२५</u><br>                                                                                                                                                                                                                                        | مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>م | <u>4.8</u><br><u>2.3</u><br><u>1.9</u><br><u>1.9</u><br><u>2.8</u><br><u>3.1</u> | 1.0_L1m:n         96.56'         96.52'         96.52'         96.53'         96.53'         96.53'         96.53' |                          | 6.38<br>6.36<br>6.25<br>6.08              | <u>180.1</u><br><u>154.5</u><br><u>134.0</u><br><u>127.2</u><br><u>117.3</u>                 |
| 1547<br>1549<br>1558<br>1606<br>1611<br>1611                         | 18.05<br>18.22<br>18.81<br>19.51<br>19.09<br>19.21                                                                            | <u>870</u><br><u>874</u><br><u>881</u><br><u>858</u><br><u>858</u><br>858                                                                                                                                                                                | مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>م | <u>4.8</u><br><u>2.3</u><br><u>1.9</u><br><u>1.9</u><br><u>2.8</u><br><u>3.1</u> | 1.0_L1m:n         96.56'         96.52'         96.52'         96.53'         96.53'         96.53'         96.53' |                          | 6.38<br>6.36<br>6.25<br>6.08              | <u>180.1</u><br><u>154.5</u><br><u>134.0</u><br><u>127.2</u><br><u>117.3</u>                 |
| 1547<br>1549<br>1558<br>1606<br>1611<br>1611                         | 18.05<br>18.22<br>18.81<br>19.51<br>19.09<br>19.21                                                                            | <u>870</u><br><u>874</u><br><u>881</u><br><u>858</u><br><u>858</u><br>858                                                                                                                                                                                | مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>م | <u>4.8</u><br><u>2.3</u><br><u>1.9</u><br><u>1.9</u><br><u>2.8</u><br><u>3.1</u> | 1.0_L1m:n         96.56'         96.52'         96.52'         96.53'         96.53'         96.53'         96.53' |                          | 6.38<br>6.36<br>6.25<br>6.08              | <u>180.1</u><br><u>154.5</u><br><u>134.0</u><br><u>127.2</u><br><u>117.3</u>                 |
| 1547<br>1549<br>1558<br>1606<br>1611<br>1611                         | 18.05<br>18.22<br>18.81<br>19.51<br>19.09<br>19.21                                                                            | <u>870</u><br><u>874</u><br><u>881</u><br><u>858</u><br><u>858</u><br>858                                                                                                                                                                                | مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>مع<br>م | <u>4.8</u><br><u>2.3</u><br><u>1.9</u><br><u>1.9</u><br><u>2.8</u><br><u>3.1</u> | 1.0_L1m:n         96.56'         96.52'         96.52'         96.53'         96.53'         96.53'         96.53' |                          | 6.38<br>6.36<br>6.25<br>6.08              | <u>180.1</u><br><u>154.5</u><br><u>134.0</u><br><u>127.2</u><br><u>117.3</u>                 |
| 1547<br>1549<br>1558<br>1606<br>1611<br>1610<br>1617                 | 18.05<br>18.22<br>18.81<br>18.51<br>19.09<br>19.21<br>150mpt 0                                                                | 870<br>874<br>881<br>858<br>858<br>858<br>858<br>858<br>853                                                                                                                                                                                              | 6.38<br>6.38<br>6.53<br>6.53<br>6.57<br>6.57<br>51 - 09190                      | <u>4.8</u><br><u>2.3</u><br><u>1.9</u><br><u>1.9</u><br><u>2.8</u><br><u>3.1</u> | 1.0_L1m:n         96.56'         96.52'         96.52'         96.53'         96.53'         96.53'         96.53' |                          | 6.38<br>6.36<br>6.25<br>6.08              | <u>180.1</u><br><u>154.5</u><br><u>134.0</u><br><u>127.2</u><br><u>117.3</u>                 |
| 154)<br>1549<br>1558<br>1606<br>1611<br>1610<br>1617<br>1617<br>1617 | 18.05<br>18.22<br>18.81<br>18.51<br>19.09<br>19.21<br>150mpt 0                                                                | <u>870</u><br><u>874</u><br><u>874</u><br><u>881</u><br><u>858</u><br><u>858</u><br><u>853</u><br>wedd <u>W-Mw-4</u> -                                                                                                                                   | 6.38<br>6.38<br>6.53<br>6.53<br>6.57<br>6.57<br>51 - 09190                      | <u>4.8</u><br><u>2.3</u><br><u>1.9</u><br><u>1.9</u><br><u>2.8</u><br><u>3.1</u> | 1.0_L1m:n         96.56'         96.52'         96.52'         96.53'         96.53'         96.53'         96.53' |                          | 6.38<br>6.36<br>6.25<br>6.08              | <u>180.1</u><br><u>154.5</u><br><u>134.0</u><br><u>127.2</u><br><u>117.3</u>                 |
| 154)<br>1549<br>1558<br>1606<br>1611<br>1610<br>1617<br>1617         | <u>18.05</u><br><u>18.22</u><br><u>18.51</u><br><u>19.09</u><br><u>19.21</u><br><u>150 pole</u><br>Nephelometr<br>Water level | <u>870</u><br><u>874</u><br><u>874</u><br><u>874</u><br><u>858</u><br><u>858</u><br><u>858</u><br><u>853</u><br><u>853</u><br><u>853</u><br><u>853</u><br><u>853</u><br><u>853</u><br><u>853</u><br><u>853</u><br><u>853</u><br><u>853</u><br><u>853</u> | 6.38<br>6.38<br>6.53<br>6.53<br>6.57<br>6.57<br>51 - 09190                      | <u>4.8</u><br><u>2.3</u><br><u>1.9</u><br><u>1.9</u><br><u>2.8</u><br><u>3.1</u> | 1.0_L1m:n         96.56'         96.52'         96.52'         96.53'         96.53'         96.53'         96.53' | <br><br><br><br><br><br> | 6.38<br>6.36<br>6.25<br>6.08              | <u>180.1</u><br><u>154.5</u><br><u>134.0</u><br><u>127.2</u><br><u>117.3</u><br><u>114.5</u> |

| Black & Veatch Special Projects C                                                                                                                                                                                       | MONITORING WELL<br>ELOPMENT (PURGING DATA)                                                                                                                                                                                                 | Page                 | ( of                                                                                                                      |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------|
| Project Number<br>46118                                                                                                                                                                                                 | Project Name<br>ALE Services                                                                                                                                                                                                               | Date<br>Og-10        | GO~1                                                                                                                      |                 |
| Monitor Well Number<br>MW-4-D                                                                                                                                                                                           | Field Investigator(s)<br>Kyle Madden                                                                                                                                                                                                       |                      |                                                                                                                           |                 |
| WELL DATA<br>INITIAL DEPTH 98.68<br>Total Depth 229                                                                                                                                                                     | Water Column Height                                                                                                                                                                                                                        |                      |                                                                                                                           |                 |
| Well Diameter 4"                                                                                                                                                                                                        | Well Volume (gals)<br>(x)(height) x=.163 gal                                                                                                                                                                                               | /ft E 2°, x=.6       | 53 gal/ft ( 4*                                                                                                            |                 |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing                                                                                                                                                       | PHOTOGRAPH IDENTIFICATI                                                                                                                                                                                                                    | ON NO.               |                                                                                                                           |                 |
| WATER SAMPLING DATA Micro<br>Method of Water Removal <u>Pum</u>                                                                                                                                                         | o-Purge<br>Deing Was Well Pump                                                                                                                                                                                                             | ed Dry7 Ye           | s No                                                                                                                      |                 |
| 3 Well Volumes A/A-                                                                                                                                                                                                     | gals Amount of Water Removed                                                                                                                                                                                                               | from Well_ <u>NA</u> | Egals                                                                                                                     |                 |
| Water Temp°C Specifi<br>Physical Appearance <u></u>                                                                                                                                                                     | c Conductancemicromhos pH                                                                                                                                                                                                                  | Turbiai              |                                                                                                                           |                 |
| Physical Appearance <u>Normal</u><br>Remarks <u>None</u>                                                                                                                                                                | ty pH NTUS WL Removed                                                                                                                                                                                                                      | Flow Rate            | <u>Do</u> <u>orp</u>                                                                                                      |                 |
| Water Temp °C Specifi<br>Physical Appearance_ <u>vormal</u><br>Remarks_ <u>vone</u><br><u>FIME Temp °C Conductivi</u><br>359 Initial Depth to <u>v</u><br>1420 Sturted Pumping                                          | EX DH NTUE HL Removed<br>ater                                                                                                                                                                                                              |                      | <u>Do</u> <u>O</u> RP                                                                                                     |                 |
| Water Temp °C Specifi<br>Physical Appearance<br>Remarks<br><u>TIME Temp °C Conductivi</u><br>359 Initral Depth to w<br>1420 Sturted Pumping<br>1426<br>1426<br>1426                                                     | EX DH NTUE WIL Removed<br>eater<br>Level adjusted to <u>lac/min</u><br>                                                                                                                                                                    | Flow Rate            | <u>Do</u> <u>ORP</u><br><br>7.72 Aus                                                                                      |                 |
| Water Temp °C Specifi<br>Physical Appearance<br>Remarks<br>TIME Temp °C Conductivi<br>359 Initral Depth to w<br>1420 Sturted Pumping<br>1426<br>1426<br>1426<br>1424                                                    | EX DH NTUE HL Removed<br>ater                                                                                                                                                                                                              | Flow Rate            | <u>Do</u> <u>O</u> RP                                                                                                     |                 |
| Water Temp °C Specifi<br>Physical Appearance <u>Normal</u><br>Remarks <u>None</u><br><u>TIME Temp °C Conductivi</u><br>359 Initral Depth to U<br>1420 Sturted Pumping<br>1426 <u>17.37 424</u><br>1435 <u>16.78 419</u> | EX DH NIUE WL Removed<br>rater                                                                                                                                                                                                             | Flow Rate            | <u>Do</u> <u>orp</u><br>7.72 <u>Aus</u><br>7.72 <u>Aus</u><br>7.72 <u>193.0</u><br>7.61 <u>144.8</u><br>7.64 <u>114.1</u> |                 |
| Water Temp °C Specifi<br>Physical Appearance<br>Remarks<br>TIME Temp °C Conductivi<br>359 Initral Depth to w<br>1420 Sturted Pumping<br>1426<br>1425<br>1445<br>1445<br>17.49<br>1445<br>17.49<br>1415<br>17.49<br>1431 | EX <u>PH</u> <u>NTUE</u> <u>41</u> <u>Removed</u><br>atex <u>98.68</u><br>Level <u>adjusted to lac/min</u><br><u>7.KK <u>8.9</u> <u>99.67</u><br/><u>7.13 14.8 <u>98.69</u><br/><u>7.097.3 <u>98.68</u><br/><u>7.023 98.67</u></u></u></u> | Flow Rate            | DO ORP<br>7.72 Aus<br>7.72 Aus<br>7.72 Aus<br>7.61 144.8<br>7.64 114.1<br>7.60 JII.2                                      |                 |
| Water Temp °C       Specifi         Physical Appearance                                                                                                                                                                 | EX DH NTUE WL Removed<br>later                                                                                                                                                                                                             | Flow Rate            | DO ORP<br>7.72 Puss<br>7.72 Puss<br>7.72 193.0<br>7.61 144.8<br>7.64 114.1<br>7.60 111.2<br>7.56 124.6                    |                 |
| Water Temp°C       Specifi         Physical Appearance       None                                                                                                                                                       | EX DH NTUE HL Removed<br>later                                                                                                                                                                                                             | Flow Rate            | DO ORP<br>7.72 Aus<br>7.72 Aus<br>7.72 Aus<br>7.61 144.8<br>7.64 114.1<br>7.60 JII.2                                      |                 |
| Water Temp°C       Specifi         Physical Appearance       None                                                                                                                                                       | EX DH NTUE WL Removed<br>later                                                                                                                                                                                                             | Flow Rate            | DO ORP<br>7.72 Puss<br>7.72 Puss<br>7.72 193.0<br>7.61 144.8<br>7.64 114.1<br>7.60 111.2<br>7.56 124.0                    |                 |
| Water Temp°C       Specifi         Physical Appearance       None                                                                                                                                                       | EX DH NTUE HL Removed<br>later                                                                                                                                                                                                             | Flow Rate            | DO ORP<br>7.72 Puss<br>7.72 Puss<br>7.72 193.0<br>7.61 144.8<br>7.64 114.1<br>7.60 111.2<br>7.56 124.0                    |                 |
| Water Temp°C       Specifi         Physical Appearance       None                                                                                                                                                       | EX DH NTUE HL Removed<br>later                                                                                                                                                                                                             | Flow Rate            | DO ORP<br>7.72 Puss<br>7.72 Puss<br>7.72 193.0<br>7.61 144.8<br>7.64 114.1<br>7.60 111.2<br>7.56 124.0                    |                 |
| Water Temp°C       Specifi         Physical Appearance       None                                                                                                                                                       | EX <u>PH</u> <u>NTUE</u> <u>HL</u> <u>Removed</u><br>(atel                                                                                                                                                                                 | Flow Rate            | DO ORP<br>7.72 Puss<br>7.72 Puss<br>7.72 193.0<br>7.61 144.8<br>7.64 114.1<br>7.60 111.2<br>7.56 124.0                    | -<br>-<br>-<br> |

| Black & Veatch Special Projects Con                                                                      | rp.                                                                                                | Page \ of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                          | AONITORING WELL                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                          | OPMENT/PURGING DATA                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Project Number<br>46118                                                                                  | Project Name<br>Ace Service                                                                        | Date<br>9-21-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Monitor Well Number<br>MW-5-5                                                                            | Field Investigator(s)<br>G. Felknen                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| WELL DATA<br>INITIAL DEPTH 100,59<br>Total Depth 120'<br>Well Diameter 4''<br>METHOD OF WELL DEVELOPMENT | Water Column Height<br>Well Volume (gals)<br>(x)(height) x=.163 gal/f<br>PHOTOGRAPH IDENTIFICATION | -1)<br>Et @ 2°, x=.653 gal/ft @ 4°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Pumping Air Lift<br>Surging Bailing                                                                      |                                                                                                    | _ ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| WATER SAMPLING DATA<br>Method of Water Removal                                                           | was Well Pumper                                                                                    | d Dry7 Yes No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                          | als Amount of Water Removed fr                                                                     | rom Well <u>~356</u> gels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| FINAL FIELD ANALYSIS<br>Water Temp°C Specific (                                                          | Conductancemicromhos pH                                                                            | Turbidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Physical Appearance                                                                                      |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Remarks                                                                                                  |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                          |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <u>TIME TEED °C Conductivity</u><br>1411 <u>Tatid</u> W.L.                                               | <u>pH NTUs WL Removed</u><br>1 <u>00</u> .59'                                                      | Flow Rate DO ORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 440 Start Runping                                                                                        |                                                                                                    | <u>15 pp</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <u>1450 15.3 720</u><br>1455 <u>15.3</u>                                                                 | 7.7 45 (air in with, roduce S                                                                      | (0v) $(0v)$ |
| 1500 15.5 722                                                                                            | 7.3 1.1 300 243                                                                                    | 5.611 6.9B 225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <u>1505 15.5 736</u><br>1507 15.4 735                                                                    | 7.3 - 3.1                                                                                          | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                     | 7,3 <u>1.6</u><br>7,3 <u>0 356 c.h.</u>                                                            | 6.88 221<br>6.87 219                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1510 Cellet sigh and dept.                                                                               | ich                                                                                                | ······                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                          |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                          |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| NTU - Nephelometric turbidity u<br>WL - Water level                                                      | nits                                                                                               | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Checked By AS                                                                                            |                                                                                                    | Date 9-26-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                                                                                                                                                                                                                                                                                                                                                 | Ack & Veatch Special Projects Corp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| DEV                                                                                                                                                                                                                                                                                                                                             | MONITORING WELL<br>ELOPMENT/PURGING DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                              |  |
| oject Number<br>46118                                                                                                                                                                                                                                                                                                                           | Project Name<br>Ace Services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date<br>09-18-00                                                                                                                                                                                                                                                             |  |
| nitor Well Number<br>MW-5-J                                                                                                                                                                                                                                                                                                                     | Field Investigator(s)<br>Kyle Madden                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                              |  |
| ELL DATA<br>NITIAL DEPTH 100.54<br>otal Depth 185'<br>ell Diameter 4"                                                                                                                                                                                                                                                                           | Water Column Height<br>Well Volume (gals)<br>(x)(height) x=.163 ga                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1/ft @ 2°, x=.653 gal/ft @ 4°                                                                                                                                                                                                                                                |  |
| ETHOD OF WELL DEVELOPMENT<br>Pumping Air Life<br>Surging Bailing                                                                                                                                                                                                                                                                                | PHOTOGRAPH IDENTIFICAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ION NO.                                                                                                                                                                                                                                                                      |  |
| ATER SAMPLING DATA Mich<br>Method of Water Removal                                                                                                                                                                                                                                                                                              | o- Runging<br>Imping Was Well Pum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | aped Dry7 Yes No                                                                                                                                                                                                                                                             |  |
| Well Volumes NA                                                                                                                                                                                                                                                                                                                                 | gals Amount of Water Removed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | from Well <u>NA</u> gals                                                                                                                                                                                                                                                     |  |
| INAL FIELD ANALYSIS<br>ster Temp°C Specif:                                                                                                                                                                                                                                                                                                      | ic Conductancemicromhos pH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | I Turbidity                                                                                                                                                                                                                                                                  |  |
| ysical Appearance                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                              |  |
| emarks                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                              |  |
| IME Temp °C Conductivi                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Flow Rate DO ORP                                                                                                                                                                                                                                                             |  |
| IME Temp °C <u>Conductivi</u><br>1400 <u>Measured Wat</u><br>107 Stanted Ournight                                                                                                                                                                                                                                                               | tes depth at 100.56 Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                              |  |
| 107 started pumping                                                                                                                                                                                                                                                                                                                             | ter depth at 100.56 Feet<br>well - adjusted Flow to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | w/min                                                                                                                                                                                                                                                                        |  |
| 107 Started pumping<br>113 20.67 570.00                                                                                                                                                                                                                                                                                                         | ter depth at 100.56 Feet<br>well = adjusted Flow to 1<br>6.72 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NV/min 7.43 [98.6                                                                                                                                                                                                                                                            |  |
| 107 Started pumping<br>113 20.67 570.80<br>119 19.98 567.0                                                                                                                                                                                                                                                                                      | ter depth at 100.56 Feet.<br>well - adjusted Flow to<br>6.72 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | $\frac{1}{100} - \frac{7.43}{7.33} \frac{1}{156.3}$                                                                                                                                                                                                                          |  |
| 107 Started pumping<br>113 20.67 570.80<br>119 19.98 567.0<br>25 22.6 602                                                                                                                                                                                                                                                                       | ter depth at 100.56 Feet<br>well - adjusted Flow to<br>6.72 63<br>6.56 10.5<br>6.78 8.7 100.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\frac{101}{100} - \frac{7.43}{7.33} - \frac{108.6}{156.3}$                                                                                                                                                                                                                  |  |
| 107 Started pumping<br>113 20.67 570.80<br>119 19.98 567.0<br>25 22.6 602<br>131 24.7 630                                                                                                                                                                                                                                                       | ter depth at 100.56 Feet.<br>well - adjusted Flow to<br>6.72 63 -<br>6.56 10.5 -<br>6.78 8.7 100.56 -<br>6.78 8.7 100.56 -<br>6.78 8.7 100.56 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | $\frac{7.43}{7.24} \frac{7.43}{1.15} \frac{1.15}{1.15} \frac{1.15}{1.141}$                                                                                                                                                                                                   |  |
| 107 Started pumping<br>113 20.67 570.80<br>119 19.98 567.0<br>125 22.6 602<br>131 24.7 630<br>133 1440 Pump lost pr                                                                                                                                                                                                                             | ter depth at 100.56 Feet<br>well - adjusted Flow to<br>6.72 63<br>6.56 10.5<br>6.78 8.7 100.56<br>- 6.78 100.56<br>- 7.55 100.56 - 7.55 100.56<br>- 7.55 100.56 - 7.55 100.56 - 7.55 100.56 - 7.55 100.56 - 7.55 100.55 - 7.55 100.55 - 7.55 100.55 - 7.55 100.55 - 7.55 100.55 - 7.55 100.55 - 7.55 100.55 - 7.55 100.55 - 7.55 - 7.55 100.55 - 7.55 - 7.55 - 7.55 - 7.55 - 7.55 - 7.55 - 7.55 - 7.55 - 7.55 - 7.55 - 7.55 - 7.55 - 7.55 - 7.55 - 7.55 | $\frac{7.43}{7.24} \frac{7.43}{1.15} \frac{1.15}{1.15} \frac{1.15}{1.141}$                                                                                                                                                                                                   |  |
| 107     Started pumping       113     20.67     570.00       119     19.98     567.0       119     19.98     567.0       113     22.6     602       131     24.7     630       133     1440     Pump lost pr       145     20.38     577.0                                                                                                      | ter depth at 100.56 Feet<br>well - adjusted Flow to<br>6.72 63 -<br>6.56 10.5 -<br>6.78 8.7 100.56 -<br>6.78 8.7 100.56 -<br>6.78 8.7 100.56 -<br>100.56 -<br>100.56 -<br>100.56 -<br>100.56 -<br>100.56 -<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\frac{1}{143.3}$                                                                                                                                                                                                                                                            |  |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                            | ter depth at 100.56 Feet.<br>well - adjusted Flow to<br>6.72 6.3 -<br>6.56 10.5 -<br>6.78 8.7 100.56 -<br>6.78 8.7 100.56 -<br>100.56 -<br>6.78 8.7 100.56 -<br>- 6.78 8.7 100.56 -<br>- 6.73 1.5.3 100.58 -<br>- 6.37 13.2 100.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | $\frac{101}{1.22} \frac{7.43}{7.43} \frac{108.6}{108.6}$ $\frac{7.33}{7.43} \frac{156.3}{156.3}$ $\frac{7.24}{7.15} \frac{143.3}{144.1}$                                                                                                                                     |  |
| <u>Measured wat</u><br><u>407</u> <u>Started pumpind</u><br><u>413</u> <u>20.67</u> <u>570.80</u><br><u>419</u> <u>19.98</u> <u>567.0</u><br><u>419</u> <u>22.6</u> <u>602</u><br><u>431</u> <u>24.7</u> <u>630</u><br><u>433</u> <u>1440</u> <u>Pump 10st pr</u><br><u>445</u> <u>20.38</u> <u>577.0</u><br><u>456</u> <u>19.16</u> <u>559</u> | Les depth at 100.56 feet<br>well - adjusted Flow to<br>6.56 10.5<br>- 6.56 10.5<br>- 6.78 8.7 100.56<br>- 6.78 8.7 100.56<br>- 6.78 8.7 100.56<br>- 6.73 16.3 100.58<br>- 6.43 15.3 100.58<br>- 6.23 8.5 100.00<br>- 6.23 8.5 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $\frac{7.43}{7.43} \frac{7.48.6}{7.33}$ $\frac{7.33}{7.24} \frac{143.3}{144.1}$ $\frac{7.15}{7.25} \frac{144.1}{71.5}$                                                                                                                                                       |  |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                            | Lender adjusted Flow to<br>well - adjusted Flow to<br>6.56 10.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | $\frac{1}{122} \frac{7.43}{7.43} \frac{78.6}{78.6} \frac{733}{7.24} \frac{143.3}{143.3} \frac{7.15}{7.15} \frac{7.15}{7.44} \frac{143.3}{144.1} \frac{7.15}{7.25} \frac{7.15}{7.25} \frac{7.5}{7.25} \frac{7.5}{7.33} \frac{7.30}{12.5} \frac{7.25}{7.33} \frac{7.30}{12.5}$ |  |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                            | Len depth at 100.56 Feet<br>well - adjusted Flow to<br>6.72 63<br>6.56 10.5<br>6.78 8.7 100.56<br>6.78 8.7 100.56<br>6.78 8.7 100.56<br>6.78 8.7 100.56<br>6.78 100.56<br>6.73 13.2 100.58<br>6.43 15.3 100.58<br>6.43 15.3 100.58<br>6.23 8.5 100.00<br>6.12 4.4 100.60<br>E-091800-P (2 bottles -1 Cr6, 1<br>0 9911005 For treated: 1.14 54 udy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\frac{1}{122} \frac{7.43}{7.43} \frac{7.43}{56.3} \frac{7.33}{56.3} \frac{7.24}{143.3} \frac{143.3}{7.15} \frac{7.15}{7.15} \frac{7.15}{7.25} \frac{7.15}{7.25} \frac{7.30}{7.33} \frac{72.5}{12.5}$                                                                        |  |

| Black & Veatch Special Projects (                                           | Corp.                                                                 | Page   of                                                       |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------|
|                                                                             | MONITORING WELL                                                       |                                                                 |
| DEVE                                                                        | ELOPMENT/PURGING DATA                                                 |                                                                 |
| Project Number<br>46118                                                     | Project Name<br>Ace Sonvices                                          | Date<br>9-21-00                                                 |
| Monitor Well Number 5-655                                                   | Field Investigator(s)<br>G. Felknen                                   |                                                                 |
| WELL DATA<br>INITIAL DEPTH 100,49'<br>Total Depth 185'<br>Well Diameter 4'' | Water Column Height<br>Well Volume (gals)<br>(x)(height) x=.163 gal/f | 55 <u>74/5.</u><br>55 <u>74/5.</u><br>5t l 2°, x653 gal/ft l 4· |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing           | PHOTOGRAPH IDENTIFICATION                                             | 4 NO.                                                           |
| WATER SAMPLING DATA<br>Method of Water Removal                              | Was Well Pumper<br>Bals Amount of Water Removed for                   | d Dry7 Yes No                                                   |
| 3 Well Volumes165                                                           | gals Amount of Water Removed for                                      | rom Well $(5)5$ gels                                            |
| FINAL FIELD ANALYSIS<br>Water Temp°C Specifi                                | c Conductancemicromhos pH                                             | Turbidity                                                       |
| Physical Appearance                                                         |                                                                       | ·<br>                                                           |
| Remarks                                                                     |                                                                       |                                                                 |
| ······                                                                      |                                                                       |                                                                 |
|                                                                             |                                                                       |                                                                 |
| TIME TEED C Conductivi                                                      |                                                                       | Flow Rate DO ORP                                                |
| 1313 Start pureins                                                          | i <u>00</u> ,49'                                                      | 15 mm                                                           |
| 1329 15.4 480                                                               | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                 | 7.7 241                                                         |
| 1337 15.4 480                                                               | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                 | 7.7 2.74                                                        |
| 1744 15.4 480                                                               | 7.3 0                                                                 | 7.7 229                                                         |
| 1344 15.4 480                                                               | 1,3 0 ~455 W                                                          | 7.7 226                                                         |
| 1350 Collect single                                                         |                                                                       |                                                                 |
|                                                                             |                                                                       |                                                                 |
|                                                                             |                                                                       |                                                                 |
|                                                                             |                                                                       |                                                                 |
|                                                                             |                                                                       |                                                                 |
|                                                                             |                                                                       |                                                                 |
| NTU - Nephelometric turbidit;<br>WL - Water level                           | y units                                                               |                                                                 |
| Checked By                                                                  |                                                                       | Date 9-26-00                                                    |

| MONITORING WELL                           | Page \ c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OPMENT/PURGING DATA<br>Project Name       | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Ace sources                               | 9-21-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Field Investigator(s)<br>G. Felknm        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Water Column Height<br>Well Volume (gals) | 127<br>83 sils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| (x)(neight) x=.105 gal/                   | rt e 2°, x=.035 ga                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| PHOTOGRAPH IDENTIFICATIO                  | N NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Ping Was Well Pumpe                       | d Dry7 Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| als Amount of Water Removed f             | rom Well_ <u>~465</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <u>ph NTUs WL Removed</u>                 | Flow Rate DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                           | 14.1 spm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 7.44                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                           | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 7.44 0                                    | 8.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                           | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                           | OPMENT/PURGING DATA         Project Name         Ace         Scovices         Field Investigator(s)         G. Felknm         Water Column Height         Well Volume (gals)         (x) (height)         x=.163 gal/         PHOTOGRAPH IDENTIFICATIO         Pinc         Was Well Pumpe         als         Amount of Water Removed f         Conductance         micromhos         PH         NUS         VL         Removed         103.20         7.44         0         7.44         0         7.44         0         7.44         0 |

| Black & Veatch Special Projects Corp.                                  |                                                 | Page \ of )              |
|------------------------------------------------------------------------|-------------------------------------------------|--------------------------|
| MO                                                                     | NITORING WELL                                   |                          |
| DEVELOF                                                                | MENT/PURGING DATA                               |                          |
| Project Number<br>46118                                                | Project Name<br>Ace Services                    | Date<br>092000 T         |
| Monitor Well Number                                                    | Field Investigator(s)                           |                          |
| MW-6-5                                                                 | Kyle Madden                                     |                          |
| WELL DATA                                                              | Veter Column Height                             |                          |
| INITIAL DEPTH 104.73<br>Total Depth 132                                | Well Volume (gals)<br>(x)(height) x=.163 gal/ft |                          |
| Well Diameter 4//                                                      | (x)(height) x=.163 gal/ft<br>                   | € 2°, x=.653 gal/ft € 4° |
| METHOD OF WELL DEVELOPMENT                                             | PHOTOGRAPH IDENTIFICATION                       | NO.                      |
| Pumping Air Lift<br>Surging Bailing                                    |                                                 |                          |
|                                                                        |                                                 | Г                        |
| WATER SAMPLING DATA Micro-Pur<br>Method of Water Removal <u>pumpin</u> | Sins Was Well Pumped                            | Dry1 Yes No              |
| 3 Well Volumes NA gals                                                 | Amount of Water Removed from                    | m Well_AAgals            |
| FINAL FIELD ANALYSIS<br>Water Temp°C Specific Cor                      |                                                 | Turbiding                |
|                                                                        |                                                 |                          |
| Physical Appearance Slightly colo                                      |                                                 | Τ                        |
| Remarks Lots of PUC shavings com.                                      | , up to man for - turbidity me                  | Sund in drinking water   |
| (cullinger water) as ~ 0.8                                             |                                                 | Ī                        |
| ,                                                                      |                                                 | Flow Rate DO ORP T       |
| <u>"TIME TEEP "C Conductivity</u><br>1222 Initial measurement of dep   | Ha the charter 104.75                           | Flow Rate DO ORP         |
| 1237 Stanted purping - adjusted by                                     | KINTOWO                                         | 1.02/ma T                |
| 1249 17.32 517                                                         | 7.30 64.47 104.587                              | 7.50 /30.1               |
| 1257 18.03 519                                                         | 7.30 57.8 104.86                                | 758 126.7                |
| 1308 20.41 546                                                         | 739 408 10488                                   | 0.77 17.0                |
| 134 20.54 549                                                          | 7.42 34.9 104.90                                | 7.65 67.3                |
| 1323 20.33 547                                                         | 7.44 24.6 10490                                 | 7.7/ 63.1                |
| 1332 20.17 549                                                         | 7.41 18.5 104.90                                | 7.60 66.8                |
| 1338 19.77 544                                                         | 7.39 17.1 14.89                                 | 7.62 69.6                |
| 1340 Sample collected w-my-                                            | 6-5-092000P                                     |                          |
|                                                                        | <u> </u>                                        |                          |
|                                                                        | · · ·                                           |                          |
| NTU - Nephelometric turbidity uni<br>WL - Water level                  | ts                                              | -                        |
| Checked By                                                             |                                                 | Date 1-26-00             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                    | Page          | l of                                                       |                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------|------------------------------------------|
| DEVELO                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ONITORING WELL<br>PMENT/PURGING DATA                                                                               |               |                                                            |                                          |
| Project Number<br>46178                                                                                                                                                                                                                                                                                                                                                                                                                                    | Project Name<br>Ace Services                                                                                       | Date<br>04-20 | ).∞                                                        |                                          |
| Monitor Well Number<br>MW-6-I                                                                                                                                                                                                                                                                                                                                                                                                                              | Field Investigator(s)<br>Kyle Madden                                                                               |               |                                                            |                                          |
| WELL DATA<br>INITIAL DEPTH 105.00<br>Total Depth 90                                                                                                                                                                                                                                                                                                                                                                                                        | Water Column Height                                                                                                |               |                                                            | t e                                      |
| Well Diameter <u>4"</u><br>METHOD OF WELL DEVELOPMENT<br><u>Pumping</u> Air Lift<br>Surging Bailing                                                                                                                                                                                                                                                                                                                                                        | PHOTOGRAPH IDENTIFICATIO                                                                                           | DN NO.        |                                                            |                                          |
| WATER SAMPLING DATA MicroPure<br>Method of Water Removal                                                                                                                                                                                                                                                                                                                                                                                                   | y.~><br>G Was Well Pump                                                                                            | ed Dry7 Y     | es No                                                      | 5                                        |
| 3 Well Volumesgal                                                                                                                                                                                                                                                                                                                                                                                                                                          | s Amount of Water Removed i                                                                                        | rom Well      |                                                            |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                    |               |                                                            |                                          |
| TIME Temp °C Conductivity                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>ph NTUs WL Removed</u>                                                                                          | Flow Rate     | Do                                                         | OR                                       |
| 0848 instruct precomments depth to we                                                                                                                                                                                                                                                                                                                                                                                                                      | tu /0\$.00                                                                                                         |               | <u>Do</u>                                                  | OR                                       |
| 0898 initial macament dept to us<br>0900 stating punging - Odjust                                                                                                                                                                                                                                                                                                                                                                                          | -d_Qlow_40 106/min                                                                                                 | Flow Rate     |                                                            |                                          |
| 0848 initial macanent depth to wa<br>0400 starting punging - Odjust<br>0941 16.87 764                                                                                                                                                                                                                                                                                                                                                                      | -2 <u>7.2</u> <u>105.00</u> <u></u><br>-2 <u>2.01</u> <u></u><br>-2.01 <u>7.2</u> <u>105.05</u> <u></u>            |               | 573                                                        | 110.0                                    |
| <u>0848</u> <u>initial macanent deptites</u><br>0400 <u>starting primeing - Odjust</u><br>0941 <u>1657</u> <u>764</u><br>0849 <u>17.03</u> <u>766</u>                                                                                                                                                                                                                                                                                                      | -2 105:00<br>-2 10 _0 _0 _0<br>7.01 _7.2 h05:05<br>7.09 _7.6 105:08                                                |               | 5.69                                                       | 1 <u>10</u> .0                           |
| <u>0848</u> <u>initial macanent deptites</u><br>0400 <u>starting primeing - Odjust</u><br>0941 <u>1657</u> <u>764</u><br>0849 <u>17.03</u> <u>766</u>                                                                                                                                                                                                                                                                                                      | -2 105.00<br>-2 2 10 10 10 10 10 10 10 10 10 10 10 10 10                                                           |               | 573                                                        | 08<br>110.0<br>100.1<br>92.9<br>84.      |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                       | -2 [05.00<br>-2 [0.0] -0 101/min<br>7.01 <u>7.2</u> 105.05<br>7.09 <u>7.2</u> 105.05<br>7.10 <u>7.2</u> 105.02     |               | 522<br>569<br>5.65<br>5.85<br>5.86                         | 10.0<br>10.1<br>929<br>84.<br>84.        |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                       | -2 [05:00<br>-2 [0.00] -0 101/min<br>7.09 7.2 105:05<br>7.09 7.4 [15:08<br>7.10 7.2 105:02<br>7.10 8.2 105:02      |               | 522<br>569<br>5.65<br>5.85<br>5.86                         | 10.0<br>10.5<br>929                      |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                      | -2 105.00<br>-2 2 20 20 20 20 20 20 20 20 20 20 20 20                                                              |               | 5.85                                                       | 10.0<br>10.1<br>929<br>84.<br>84.        |
| <u>0818</u> <u>inited machinesti depti tu wa</u><br><u>0900</u> <u>stantines pringines - Odjust</u><br><u>0941</u> <u>16.87</u> <u>764</u><br><u>0949</u> <u>17.03</u> <u>766</u><br><u>0957</u> <u>16.96</u> <u>756</u><br><u>006</u> <u>17.17</u> <u>754</u><br><u>017</u> <u>17.66</u> <u>754</u><br><u>022</u> <u>17.70</u> <u>754</u><br><u>026</u> <u>17.84</u> <u>754</u><br><u>028</u> <u>/ Sample collected W-MW-6-T</u>                          | -δ. <u><u></u> <u></u> /u> |               | 522<br>569<br>5.65<br>5.85<br>5.85<br>5.86<br>5.86<br>5.86 | 100<br>100<br>929<br>84,<br>84,0<br>81,0 |
| <u>0818</u> <u>inited machinesti depti tu wa</u><br><u>0900</u> <u>stantines pringines - Odjust</u><br><u>0941</u> <u>16.87</u> <u>764</u><br><u>0949</u> <u>17.03</u> <u>766</u><br><u>0957</u> <u>16.96</u> <u>756</u><br><u>006</u> <u>17.17</u> <u>754</u><br><u>017</u> <u>17.66</u> <u>754</u><br><u>022</u> <u>17.70</u> <u>754</u><br><u>026</u> <u>17.84</u> <u>754</u><br><u>028</u> <u>/ Sample collected W-MW-6-T</u>                          | -δ. <u><u></u> <u></u> /u> |               | 522<br>569<br>5.65<br>5.85<br>5.85<br>5.86<br>5.86<br>5.86 | 100<br>100<br>929<br>84,<br>84,0<br>81,0 |
| <u>0818</u> <u>initial machinement deptities</u><br><u>0900</u> <u>stanting punging - Odjust</u><br><u>0941</u> <u>16.87</u> <u>764</u><br><u>0941</u> <u>16.87</u> <u>764</u><br><u>0949</u> <u>17.03</u> <u>766</u><br><u>0957</u> <u>16.96</u> <u>756</u><br><u>006</u> <u>17.17</u> <u>754</u><br><u>017</u> <u>17.66</u> <u>754</u><br><u>022</u> <u>17.70</u> <u>754</u><br><u>022</u> <u>17.84</u> <u>754</u><br><u>026</u> <u>17.84</u> <u>754</u> | -δ. <u><u></u> <u></u> /u> |               | 522<br>569<br>5.65<br>5.85<br>5.85<br>5.86<br>5.86<br>5.86 | 100<br>100<br>929<br>84,<br>84,0<br>81,0 |

| Black & Veatch Specia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | al Projects Corp.                                                                                               |                                                                                                                                                                                                 |                                                                                                                                               |                | Page            | l of                                         | 1                                                                  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MC                                                                                                              | NITORING                                                                                                                                                                                        | WELL                                                                                                                                          |                |                 |                                              |                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DEVELO                                                                                                          | PMENT/PL                                                                                                                                                                                        | IRGING                                                                                                                                        | DATA           |                 |                                              |                                                                    |
| Project Number<br>461                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18                                                                                                              | Project N<br>Ace                                                                                                                                                                                |                                                                                                                                               |                | Date            | abo                                          | <br>Ţ                                                              |
| Monitor Well Number<br>MW-10-141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | >                                                                                                               | Field Inv                                                                                                                                                                                       | estigator(                                                                                                                                    | s )            |                 | 1                                            | i<br>                                                              |
| WELL DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Jos ,                                                                                                           |                                                                                                                                                                                                 | •                                                                                                                                             |                |                 |                                              |                                                                    |
| INITIAL DEPTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 231                                                                                                             | Wate Well                                                                                                                                                                                       | r Column H<br>Volume (g                                                                                                                       | leight<br>als) |                 |                                              | Ŧ                                                                  |
| Well Diameter 4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                 | (x)(                                                                                                                                                                                            | height) x                                                                                                                                     | =.163 gal/     | ft 🖞 2°, x=.6   | 53 gal/f                                     | t <b>E</b> 4"                                                      |
| METHOD OF WELL DEVEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                 | PHOT                                                                                                                                                                                            | OGRAPH IDE                                                                                                                                    | INTIFICATIO    | N NO.           |                                              | T                                                                  |
| Pumping<br>Surging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | _Air Lift<br>_Bailing                                                                                           |                                                                                                                                                                                                 |                                                                                                                                               |                |                 |                                              | 1                                                                  |
| VATER CAMPIING DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Micio                                                                                                           | - Purging                                                                                                                                                                                       |                                                                                                                                               |                |                 |                                              | Ī                                                                  |
| Method of Water Remo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | oval <u>Duim</u>                                                                                                | p:~~                                                                                                                                                                                            | Was                                                                                                                                           | Well Pumpe     | d Dry? Ye       | es No                                        |                                                                    |
| 3 Well Volumes/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | VA gali                                                                                                         | s Amoun                                                                                                                                                                                         | t of Water                                                                                                                                    | Removed f      | rom Well/       | A                                            | gals                                                               |
| FINAL FIELD ANALYSIS<br>Water Temp ]7.04 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S<br>Specific Co                                                                                                | nductance_5                                                                                                                                                                                     | 51 micro                                                                                                                                      | nahos pH_]     | .41 Turbid:     | ity 4.9                                      | T                                                                  |
| Physical Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                 |                                                                                                                                                                                                 |                                                                                                                                               |                |                 |                                              | ١                                                                  |
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| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |                                                                                                                                                                                                 |                                                                                                                                               |                |                 |                                              | ]                                                                  |
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| Remarks /Vont                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Conductivity                                                                                                    | <u>dh ntu</u>                                                                                                                                                                                   |                                                                                                                                               | Removed        | Flow Rate       | Do                                           | ORP                                                                |
| Remarks /Vone<br>(TIME Temp °C (<br>LO(042 Initial Dept                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | to water =                                                                                                      |                                                                                                                                                                                                 | 10617                                                                                                                                         | <u>Removed</u> |                 | <u>Do</u>                                    | ORP                                                                |
| Remarks <u>(Vone</u><br>( <u>TIME Temp °C (</u><br><u>HO</u> (042 <u>Initial</u> Dept<br><u>1050 Standed</u> parpi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | nto water =                                                                                                     | udjusted to                                                                                                                                                                                     | 10 <u>61</u> 7<br>م <u>برا</u> ک 0./~                                                                                                         | <u>Removed</u> | Flow Rate       |                                              |                                                                    |
| Remarks <u>Jone</u><br>(TIME Temp °C C<br><u>HOIO42 Initial Dept</u><br><u>1050 Standed Purpi</u><br><u>1108 15.42</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - Flow rate<br>474                                                                                              |                                                                                                                                                                                                 | 10 <u>61</u> 7<br>_~/.0 <u>6/m</u> m<br>                                                                                                      | <u>Removed</u> |                 | 7.02                                         | (21.7                                                              |
| Remarks <u>/vone</u><br><u>(TIME Temp °C (</u><br><u>1050 Started parpi</u><br><u>1058 15.42</u><br><u>113 16.46</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - +0 water =<br>                                                                                                |                                                                                                                                                                                                 | (0 <u>6.1</u> 7<br>/.0 <u>c/m</u> in<br>(0 <u>6.</u> 15<br>3(0 <u>6.</u> 16                                                                   | <u>Removed</u> |                 | 7.a2<br>6.90                                 | <u>121.7</u><br>101.9                                              |
| Remarks <u>/vone</u><br><u> (TIME Temp °C G</u><br><u> <u> </u> /u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - flow rate<br>- flow rate<br>- 474<br>- 489<br>- 520                                                           |                                                                                                                                                                                                 | 10 <u>61</u> 7<br>_~/.0 <u>c/m</u> in<br>15<br>15<br>30 <u>6</u> .15<br>40 <u>6</u> .14                                                       | <u>Removed</u> |                 | 7.02                                         | 101-9<br>85.8                                                      |
| Remarks       IVONE         "TIME       Temp       °C       G         1050       Started       Dept         1050       Started       parpit         1108       15.42       1         1118       17.27       1         1124       17.11       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - +0 water =<br>                                                                                                |                                                                                                                                                                                                 | 10 <u>6.1</u> 7<br>_~/.0 <u>c/a</u> m<br>                                                                                                     | <u>Removed</u> |                 | 7.02<br>6.40<br>6.59<br>6.60                 | 121.7<br>101.9<br>85.8<br>78.0                                     |
| Remarks       IVONE         "IME       Temp       °C       G         1050       Started       Dept         1050       Started       Dept         1108       15.42       1         1118       17.27       1         118       17.27       1         1131       17.05       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - Flow rate<br>474<br>489<br>520<br>556<br>554                                                                  |                                                                                                                                                                                                 | 10 <u>6.1</u> 7<br>_~/.0 <u>6/m</u> m<br>                                                                                                     |                |                 | 7.a2<br>6.40<br>6.79                         | <u>121.7</u><br><u>101.9</u><br><u>85.8</u><br><u>78.0</u><br>77.7 |
| Remarks       Imp °C         (*TIME       Temp °C       G         1050       Standad       Dept         1050       Standad       Dept         1108       15.42       1113         118       17.27       1131         1131       17.05       1136         1136       17.17       1136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - +0 water =<br>                                                                                                |                                                                                                                                                                                                 | - 10 <u>6.1</u> 7<br>- 1.0 <u>c/m</u> m<br>- 10 <u>6.</u> 15<br>- 10 <u>6.</u> 15<br>- 10 <u>6.15</u><br>2 10 <u>6.17</u><br>5 10 <u>6.17</u> |                |                 | 7.02<br>6.40<br>6.60<br>6.60                 | 121.7<br>101.9<br>85.8<br>78.0                                     |
| Remarks       Ivone         (TIME       Temp °C       Q         1050       Standed       Dogta         1050       Standed       Dogta         1050       Standed       Dogta         1108       15.42       1         1118       17.27       1         118       17.27       1         1131       17.05       1         1130       17.05       1         1140       17.04       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | - Flow rate<br>- Flow rate<br>- 474<br>- 489<br>- 520<br>- 556<br>- 556<br>- 554<br>- 554<br>- 554<br>- 554     | 1     1     1       7     3     6     2       7     36     15       7     39     11.4       7     39     5       7     35     6       7     35     5       7     35     5       7     41     4  | 10 <u>6.1</u> 7<br>                                                                                                                           |                |                 | 7.02<br>6.40<br>6.59<br>6.60<br>6.62<br>6.63 | 121.7<br>101.9<br>85.8<br>78.0<br>77.7<br>77.8                     |
| Remarks       Ivone         (TIME       Temp • C       Q         LOO/042       Initial       Depter         1050       Standad       parpin         108       15.42       1         113       15.42       1         118       17.27       1         1131       17.05       1         1136       17.17       1         1130       17.04       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | to water =<br>- Flow rate<br>474<br>489<br>520<br>556<br>556<br>554<br>554<br>551                               | 1     1     1       7     3     6     2       7     36     15       7     39     11.4       7     39     5       7     35     6       7     35     5       7     35     5       7     41     4  | 10 <u>6.1</u> 7<br>                                                                                                                           |                |                 | 7.02<br>6.40<br>6.59<br>6.60<br>6.62<br>6.63 | 121.7<br>101.9<br>85.8<br>78.0<br>77.7<br>77.8                     |
| Remarks       Ivone         (TIME       Temp °C       Q         1050       Standed       Depter         1050       Standed       Parpin         108       15.42       1         113       16.46       1         118       17.27       1         1131       17.05       1         1130       17.05       1         1140       17.04       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | to water =<br>- Flow rate<br>474<br>489<br>520<br>556<br>556<br>554<br>554<br>551                               | 1     1     1       7     3     6     2       7     36     15       7     39     11.4       7     39     5       7     35     6       7     35     5       7     35     5       7     41     4  | 10 <u>6.1</u> 7<br>                                                                                                                           |                |                 | 7.02<br>6.40<br>6.59<br>6.60<br>6.62<br>6.63 | 121.7<br>101.9<br>85.8<br>78.0<br>77.7<br>77.8                     |
| Remarks       June         (TIME       Temp °C       G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - Flow rate<br>- Flow rate<br>- 474<br>- 489<br>- 520<br>- 556<br>- 556<br>- 554<br>- 554<br>- 551<br>5-092000- | 1     1     10       7.33     6.2       7.36     15.3       7.36     15.3       7.36     15.3       7.36     11.4       7.35     6.2       7.35     5.7       7.41     4       9     (total ca) | 10 <u>6.1</u> 7<br>                                                                                                                           |                |                 | 7.02<br>6.40<br>6.59<br>6.60<br>6.62<br>6.63 | 121.7<br>101.9<br>85.8<br>78.0<br>77.7<br>77.8                     |
| Remarks <u></u><br>(TIME <u>Temp °C</u> <u>G</u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u><br><u></u> | - Flow rate<br>- Flow rate<br>- 474<br>- 489<br>- 520<br>- 556<br>- 556<br>- 554<br>- 554<br>- 551<br>5-092000- | 1     1     10       7.33     6.2       7.36     15.3       7.36     15.3       7.36     15.3       7.36     11.4       7.35     6.2       7.35     5.7       7.41     4       9     (total ca) | 10 <u>6.1</u> 7<br>                                                                                                                           |                | ~ <u>1.04/A</u> | 7.02<br>6.40<br>6.59<br>6.60<br>6.62<br>6.63 | 121.7<br>101.9<br>85.8<br>78.0<br>77.7<br>77.8                     |

|                                                                                                                                                                                 |                                                                                                                                                | ecial Projects Corp<br>M<br>DEVELC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ονιτο                                                               | RING V              |          | DATA                   | Page        | <u>l</u> of                                                                          |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------|----------|------------------------|-------------|--------------------------------------------------------------------------------------|----------|
|                                                                                                                                                                                 | t Number<br>46/18                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                     | ect Name            |          |                        | Date<br>9   | -22-0                                                                                | <u>ה</u> |
|                                                                                                                                                                                 | r Well Numb<br>MU-7-5                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fiel                                                                | d Invest<br>2. Fe   | igator   |                        |             |                                                                                      | <u> </u> |
| WELL D<br>INITIA<br>Total                                                                                                                                                       | ATA<br>L DEPTH<br>Depth                                                                                                                        | 116.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                     | Water C<br>Well Vo  | column f | leight                 | 23'         |                                                                                      |          |
| Well D                                                                                                                                                                          | iameter                                                                                                                                        | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     | (x)(hei             | ight) o  | <pre>x=.163 gal/</pre> | ft ( 2°, x) | 653 gal/                                                                             | ft       |
| <u> </u>                                                                                                                                                                        | OF WELL DE<br>Pumping<br>Surging                                                                                                               | VELOPMENT<br>Air Lift<br>Bailing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                     | PHOTOGR             | LAPH ID  | ENTIFICATIO            | N NO.       |                                                                                      |          |
| WATER<br>Method                                                                                                                                                                 | SAMPLING DA<br>of Water R                                                                                                                      | TA<br>emoval <u>Subac</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                     | 20ml                | Was      | Well Pumpe             | d Dry7 Y    | es h                                                                                 | )        |
|                                                                                                                                                                                 |                                                                                                                                                | ~45 gal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                     | •                   |          |                        |             |                                                                                      | $\smile$ |
| Water<br>Physic                                                                                                                                                                 |                                                                                                                                                | •C Specific Co<br>ce                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |                     |          |                        | Turbid      | ity                                                                                  |          |
| Vater<br>Physic<br>Remark                                                                                                                                                       | Temp<br>al Appearan<br>s<br>Temp *C                                                                                                            | •C Specific Conductivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |                     | <u></u>  | Removed                | Turbid      | ity                                                                                  |          |
| Vater<br>Physic<br>Remark<br>TIME<br>1005                                                                                                                                       | Temp<br>al Appearan<br>s<br><u>Temp *C</u><br><u></u>                                                                                          | •C Specific Co<br>ce<br><u>Conductivity</u><br>war lavel                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |                     |          | Removed                | Flow Rate   |                                                                                      |          |
| Vater<br>Physic<br>Remark                                                                                                                                                       | Temp<br>al Appearan<br>s<br>Temp *C                                                                                                            | •C Specific Conductivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |                     | <u></u>  | Removed                |             |                                                                                      |          |
| Vater<br>Physic<br>Remark<br><u> (TIME</u><br>1005<br>1017<br>1032<br>1035                                                                                                      | Temp <u>•</u> C<br><u>Temp •C</u><br><u>T:</u>                                                                                                 | •C Specific Co<br>ce<br><u>Conductivity</u><br>w=b<br>w=b<br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u><br><u>functivity</u> | рн<br>—<br>7 <u>.2</u><br>7 <u>.2</u><br>7 <u>.2</u>                | NTU:                | <u></u>  | Removed                | Flow Rate   | <u>Do</u><br><u>8,61</u><br>7,27                                                     |          |
| Vater<br>Physic<br>Remark<br><u>TIME</u><br>1005<br>1017<br>1032<br>1035<br>1035                                                                                                | Temp •C<br><u>Temp •C</u><br><u>T:1</u><br><u>S+art</u><br><u>14.4</u><br><u>14.3</u>                                                          | Conductivity<br>water level<br><u>functivity</u><br><u>solution</u><br><u>578</u><br><u>576</u><br><u>576</u>                                                                                                                                                                                                                                                                                                                                                                                                      | рн<br>—<br>7. <u>2</u><br>7. <u>2</u><br>7. <u>2</u><br>7. <u>2</u> | NTU:<br>O<br>O<br>O | <u></u>  | Removed                | Flow Rate   | <u>Do</u><br><u>8.61</u><br><u>7.27</u><br><u>7.04</u>                               |          |
| Vater<br>Physic<br>Remark<br><u>FIME</u><br>1005<br>1017<br>1032<br>1035<br>1035<br>1035<br>1042                                                                                | Temp •C<br><u>Temp •C</u><br><u>T:.+:1</u><br><u>Start</u><br><u>14.4</u><br><u>14.4</u>                                                       | •C Specific Co<br>ce<br><u>Conductivity</u><br>w=b<br><u>y=b</u><br><u>578</u><br><u>577</u><br><u>576</u><br><u>577</u>                                                                                                                                                                                                                                                                                                                                                                                           | <b>PH</b><br><br>7. <u>2</u><br>7.2<br>7.2<br>7.2<br>7.2            |                     | <u></u>  | Removed                | Flow Rate   | <u>Do</u><br><u>8,61</u><br><u>7,27</u><br><u>7,04</u><br><u>6,73</u>                |          |
| Vater<br>Physic<br>Remark<br>GTIME<br>1005<br>1017<br>1032<br>1032<br>1035<br>1035<br>1032<br>1042<br>1042<br>1047                                                              | Temp •C<br><u>Temp •C</u><br><u>T+:1</u><br><u>S+wt</u><br><u>I+.4</u><br><u>14.4</u><br><u>14.4</u><br><u>14.3</u>                            | •C Specific Co<br>.ce<br><u>Conductivity</u><br><u>w=b1 lwel</u><br><u>pu-ping</u><br><u>578</u><br><u>578</u><br><u>576</u><br><u>576</u><br><u>576</u>                                                                                                                                                                                                                                                                                                                                                           | PH<br>                                                              |                     | <u></u>  | <u>Removed</u>         | Flow Rate   | <u>Do</u><br><u>B,61</u><br><u>7,27</u><br><u>7,04</u><br><u>6,73</u><br><u>6,91</u> |          |
| Vater<br>Physic<br>Remark<br><u>FIME</u><br><u>1005</u><br><u>1017</u><br><u>1032</u><br><u>1032</u><br><u>1035</u><br><u>1042</u><br><u>1047</u><br><u>1047</u><br><u>1047</u> | Temp • C<br>Temp • C<br>T=.+:1<br>S+wt<br>14.4<br>14.4<br>14.3<br>14.3<br>14.3                                                                 | Conductivity<br>w=bn_lweb<br><u>pu-ping</u><br><u>578</u><br><u>578</u><br><u>576</u><br><u>576</u><br><u>576</u><br><u>576</u><br><u>576</u><br><u>576</u>                                                                                                                                                                                                                                                                                                                                                        | <b>PH</b><br><br>7. <u>2</u><br>7.2<br>7.2<br>7.2<br>7.2            |                     | <u></u>  | Removed                | Flow Rate   | <u>Do</u><br><u>8,61</u><br><u>7,27</u><br><u>7,04</u><br><u>6,73</u>                |          |
| Vater<br>Physic<br>Remark<br>GTIME<br>1005<br>1017<br>1032<br>1032<br>1035<br>1035<br>1032<br>1042<br>1042<br>1047                                                              | Temp •C<br><u>Temp •C</u><br><u>T+:1</u><br><u>S+wt</u><br><u>I+.4</u><br><u>14.4</u><br><u>14.4</u><br><u>14.3</u>                            | •C Specific Co<br>.ce<br><u>Conductivity</u><br><u>w=b1 lwel</u><br><u>pu-ping</u><br><u>578</u><br><u>578</u><br><u>576</u><br><u>576</u><br><u>576</u>                                                                                                                                                                                                                                                                                                                                                           | PH<br>                                                              |                     | <u></u>  | <u>Removed</u>         | Flow Rate   | <u>Do</u><br><u>B,61</u><br><u>7,27</u><br><u>7,04</u><br><u>6,73</u><br><u>6,91</u> |          |
| Vater<br>Physic<br>Remark<br><u>FIME</u><br><u>1005</u><br><u>1017</u><br><u>1032</u><br><u>1032</u><br><u>1035</u><br><u>1042</u><br><u>1047</u><br><u>1047</u><br><u>1047</u> | Temp • C<br>Temp • C<br>T=.+:1<br>S+wt<br>14.4<br>14.4<br>14.3<br>14.3<br>14.3                                                                 | Conductivity<br>w=bn_lweb<br><u>pu-ping</u><br><u>578</u><br><u>578</u><br><u>576</u><br><u>576</u><br><u>576</u><br><u>576</u><br><u>576</u><br><u>576</u>                                                                                                                                                                                                                                                                                                                                                        | PH<br>                                                              |                     | <u></u>  | <u>Removed</u>         | Flow Rate   | <u>Do</u><br><u>B,61</u><br><u>7,27</u><br><u>7,04</u><br><u>6,73</u><br><u>6,91</u> |          |
| Vater<br>Physic<br>Remark<br><u>FIME</u><br><u>1005</u><br><u>1017</u><br><u>1032</u><br><u>1032</u><br><u>1035</u><br><u>1042</u><br><u>1047</u><br><u>1047</u><br><u>1047</u> | Temp • C<br>Temp • C<br><u>T=.+:1</u><br><u>S+wt</u><br><u>I+.+</u><br><u>I+.+</u><br><u>I4.4</u><br><u>I4.3</u><br><u>I4.3</u><br><u>I4.3</u> | Conductivity<br>w=bn_lweb<br><u>pu-ping</u><br><u>578</u><br><u>578</u><br><u>576</u><br><u>576</u><br><u>576</u><br><u>576</u><br><u>576</u><br><u>576</u>                                                                                                                                                                                                                                                                                                                                                        | PH<br>                                                              |                     | <u></u>  | <u>Removed</u>         | Flow Rate   | <u>Do</u><br><u>B,61</u><br><u>7,27</u><br><u>7,04</u><br><u>6,73</u><br><u>6,91</u> |          |

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| <u>TIME Temp °C Conduction</u><br><u>105 total dept of Water State</u><br><u>1134 pumping water State</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u>vity pH NTUs WL Remov</u><br><u>atp</u>                                                                                                                                                                                                                                                                                                                    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| Remarks<br><u>TIME Temp °C Conduction</u><br><u>1105 total dept of water sono<br/>1134 pumping water sono<br/><u>1140 18,4 544</u><br/><u>1147 18,7 554</u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>vity pH NTUs HL Remov</u><br><u>ab</u>                                                                                                                                                                                                                                                                                                                     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| Remarks       Temp °C       Conducting         1125       total depth of with         1134       pumping water stress         1140       18.4       544         1147       18.7       554         1147       18.7       554         1147       18.7       554         1159       19.5       563                                                                                                                                                                                                                                                                                                                                                                        | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                          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| Remarks         TIME       Temp °C       Conduction         1105       total depth of white         1134       pumping water set         1134       pumping water set         1140       18.4       544         1140       18.4       544         1141       18.7       554         1147       19.3       562         1159       19.5       563         12:05       19.8       566                                                                                                                                                                                                                                                                                     | vity       pH       NTUs       WL       Remov $abp$ Mus       WL       Remov $abp$ Mus       WL       Remov $abp$ Mus       WL       Remov $abp$ Mus       Mus       Mus       Mus $abp$ $abp$ Mus       Mus       Mus       Mus $abp$ $abp$ Mus       M                                                                                                      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| Remarks         TIME       Temp °C       Conductive         1105       Total depth of white         1134       pumping water set         1134       pumping water set         1140       18.4       544         1140       18.4       544         1141       18.7       554         1147       19.3       562         1159       19.5       563         12:05       19.8       562         12:05       19.9       564                                                                                                                                                                                                                                                  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                         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| Remarks         GTIME       Temp °C       Conductive         1105       total depth of with         1134       pumping water set         1140       18.4       544         1140       18.4       544         1141       18.7       554         1147       18.7       554         1147       18.7       554         1147       18.7       554         1147       19.3       562         1159       19.5       563         12:05       19.8       566         12:05       19.9       564         12:05       19.9       569         12:05       19.9       569         12:05       19.9       569                                                                        | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                                                                                                         | 6<br>8<br>25,5<br>01.4<br>83.2                                                                                                               |
| Remarks         GTIME       Temp °C       Conductive         1105       total depth of with         1134       pumping water set         1134       pumping water set         1140       18.4       544         1140       18.4       544         1141       18.7       554         1147       18.7       554         1147       18.7       554         1147       19.3       562         1159       19.5       563         12:05       19.3       566         12:05       19.9       569         12:05       19.9       560         12:16       20.02       566         12:18       6 Samples collected                                                               | $\frac{vity}{4} \xrightarrow{\text{pH}} \underbrace{\text{NTUs}} \xrightarrow{\text{WL}} \underbrace{\text{Remov}}_{4}$ $\frac{4}{2} \xrightarrow{\text{o}} \xrightarrow{\text{i}} \xrightarrow{\text{i}} \xrightarrow{\text{i}} \xrightarrow{\text{o}} \xrightarrow{\text{i}} \xrightarrow{i} \xrightarrow{i} \xrightarrow{i} \xrightarrow{i} \xrightarrow{i} \xrightarrow{i} \xrightarrow{i} $ | <u>- [.] 4/m/n</u><br><u>5.62</u><br><u>5.55</u><br><u>5.55</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u><br><u>5.57</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6<br>8<br>05.5<br>01.4<br>83.2<br>0.8                                                                                                        |
| Remarks         GTIME       Temp °C       Conductive         1105       total depth of with         1134       pumping water set         1134       pumping water set         1140       18.4       544         1140       18.4       544         1141       18.7       554         1147       18.7       554         1147       18.7       554         1147       19.3       562         1159       19.5       563         12:05       19.3       566         12:05       19.9       569         12:05       19.9       560         12:16       20.02       566         12:18       6 Samples collected                                                               | $\frac{vity}{4}  \underline{PH}  \underline{NTUs}  \underline{WL}  \underline{Remov}$ $\frac{4}{2}  \underline{-}  \underline{-}  \underline{WL}  \underline{S}  \underline{ML}  \underline{S}  \underline{-}  \underline{S}  \underline$                                                                                                                                                                                                                                                                                                                                        | <u>~1.1 L/m</u><br><u>5.62</u><br><u>5.55</u><br><u>5.55</u><br><u>5.55</u><br><u>5.57</u><br><u>5.59</u><br><u>5.48</u><br><u>5.63</u><br><u>5.63</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6<br>8<br>05.5<br>01.4<br>83.2<br>0.8                                                                                                        |
| Remarks         GTIME       Temp $^{\circ}C$ Conducting         1125       total depth of with         1134       pumping water set         1134       pumping water set         1140       18.4       544         1140       18.7       554         1141       18.7       554         1147       18.7       554         1147       18.7       554         1147       18.7       554         1147       18.7       554         1147       18.7       554         1147       19.3       562         1159       19.5       563         12:05       19.8       566         12:05       19.9       566         12:16       20.02       566         12:18       6       560 | $\frac{vity}{40} = H = NTUs}{40} = H = NTUs} = H = Remov$ $\frac{40}{40} = H = H = 0.65 = H = 0.65 = H = 0.65 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 0.85 = 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| Remarks         GTIME       Temp $^{\circ}$ C       Conductive         1125       total depth of with         1134       pumping water set         1134       pumping water set         1140       18.4       544         1140       18.7       554         1141       18.7       554         1141       18.7       554         1141       19.3       562         1154       19.3       562         1205       19.3       566         1210       20.02       566         1216       20.02       566         1218       6       564                                                                                                                                     | $\frac{vity}{4b} = \frac{H}{14} = \frac{H}{1$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | $-1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1.1 \ 1$ | 6<br>8<br>25,5<br>01.4<br>83.2<br>0.8                                                                                                        |

|   | Black & Veatch Special Projects Corp                                           | p.                                                                  | Page   of                                         |
|---|--------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|
|   | M                                                                              | IONITORING WELL                                                     |                                                   |
| ~ | DEVELOPMENT/PURGING DATA                                                       |                                                                     |                                                   |
|   | Project Number<br>46118                                                        | Project Name<br>Ace Sources                                         | Date<br>9-22-00                                   |
|   | Monitor Well Number<br>MW-7-D                                                  | Field Investigator(s)<br>G, Felken                                  |                                                   |
|   | WELL DATA<br>INITIAL DEPTH 17.71<br>Total Depth 243<br>Well Diameter 4"        | Water Column Height<br>Well Volume (gals)<br>(x)(height) x=.163 gal | 17-6'<br>-83 jaly<br>/ft @ 2°, x=.653 gal/ft @ 4° |
|   | METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing              | PHOTOGRAPH IDENTIFICATI                                             | ON NO.                                            |
|   | WATER SAMPLING DATA<br>Method of Water Removal Subman                          |                                                                     |                                                   |
| - | 3 Well Volumes <u>~270</u> ga                                                  | ls Amount of Water Removed                                          | from Well <u>- 465</u> gals                       |
| - | FINAL FIELD ANALYSIS<br>Water Temp°C Specific C                                | Conductancemicromhos pH_                                            | Turbidity                                         |
|   | Physical Appearance                                                            |                                                                     |                                                   |
|   | Remarks                                                                        |                                                                     |                                                   |
|   | Conductivity       OB35     Jn. tial     W.L.       OB51     Start     Durping | <u>pH NTUs WL Removed</u>                                           | Flow Race DO ORP                                  |
|   | 0904 15.1 391-                                                                 | 7 <u>.1</u> <u>0</u><br>7 <u>.4</u> <u>0</u>                        | <u> </u>                                          |
|   | <u>0910</u> <u>15.2</u> <u>389</u><br>0914 <u>15.2</u> <u>389</u>              | 7.4 <u>0</u><br>7.4 <u>0</u><br>7.4 <u>0</u>                        | $\frac{7.70 \ 231}{1.67 \ 229}$                   |
| - | 0917 <u>15.2</u> <u>389</u><br>0920 <u>15.2</u> <u>389</u>                     | 7 <u>.5</u> 0                                                       | <u> </u>                                          |
|   | 0924 <u>15.2</u> 388<br>0927 61122 since ml                                    | 7.5 0 _ 465                                                         | 7.65 227                                          |
|   |                                                                                | ·                                                                   |                                                   |
| - | NTU - Nephelometric turbidity un<br>VL - Water level                           | nits                                                                |                                                   |
|   | Checked By Af-                                                                 |                                                                     | Date 9-26-00                                      |

| Black & Veatch Special Projects Corp.                                                                    |                                                                                                | Page of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MON                                                                                                      | ITORING WELL                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DEVELOPN                                                                                                 | MENT/PURGING DATA                                                                              | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                          | Project Name<br>Ace Sorvices                                                                   | Date 9-20-00 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Monitor Well Number                                                                                      | Field Investigator(s)<br>G. Fellan                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| WELL DATA<br>INITIAL DEPTH 108.28'<br>Total Depth 132'<br>Well Diameter 4"<br>METHOD OF WELL DEVELOPMENT | Water Column Height<br>Well Volume (gals)<br>(x)(height) x=.163 gal<br>PHOTOGRAPH IDENTIFICATI | /ft'@`2", x=.653 gal/ft @ 4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Pumping Air Lift<br>Surging Bailing                                                                      |                                                                                                | T I I I I I I I I I I I I I I I I I I I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| WATER SAMPLING DATA<br>Method of Water Removal                                                           |                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3 Well Volumes <u>~48</u> gals                                                                           | Amount of Water Removed                                                                        | from Well <sup>2</sup> 560 gals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| FINAL FIELD ANALYSIS<br>Water Temp°C Specific Condu                                                      | uctancemicromhos pH_                                                                           | Turbidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Physical Appearance                                                                                      |                                                                                                | · T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Remarks                                                                                                  |                                                                                                | ا<br>т                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| (TIME Temp °C Conductivity                                                                               | pH NTUS WL Removed                                                                             | sec el 4501<br>Flow Rate DO ORP T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1447 International W.L.                                                                                  | 10 <u>8</u> ,28′                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1505 Start Purpicy                                                                                       |                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                          |                                                                                                | <u>_6_100</u> 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1517 14.8 620 7.3                                                                                        | , 2.4                                                                                          | 16 yra - 6.86 213 T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| $\frac{1517}{1523} - \frac{14.8}{14.8} - \frac{620}{616} - \frac{13}{7}$                                 | 20                                                                                             | $- 6.56 213 \\ 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.56 214 \\ - 6.5$                                                                                                                                                                                                   |
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| Black & Veatch Special Projects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| WELL DATA<br>INITIAL DEPTH 107.75'<br>Total Depth 195                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| WATER SAMPLING DATA<br>Method of Water Removal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 3 Well Volumes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| FINAL FIELD ANALYSIS<br>Water Temp°C Specifi<br>Physical AppearanceS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Water Temp*C Specify                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Vater Temp °C Specifi<br>Physical Appearance<br>Remarks<br><u>TIME Temp °C Conductivi</u><br><u>1606</u><br><u>1625</u><br><u>1625</u><br><u>1641</u><br><u>54</u><br><u>1625</u><br><u>1641</u><br><u>54</u><br><u>54</u><br><u>16</u><br><u>54</u><br><u>16</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u><br><u>54</u> | t green tint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <u>Do</u> <u>orp</u>                                                                                                         |
| Water Temp*C Specifi<br>Physical Appearance<br>Remarks<br><u>TIME Temp *C Conductivi</u><br><u>1606</u><br>1625<br>Shada Printing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>t</u> <u>sr.een</u> <u>tint</u><br><u><b>tr</b></u> <u>pH</u> <u>NTUs</u> <u>WL</u> <u>Ren</u><br><u>107.75</u><br><u>7.35</u> 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | woved Flow Rate                                |                                                                                                                              |
| Water Temp*C Specific<br>Physical AppearanceSlicy<br>Remarks<br><u>TIME</u> Temp *C Conductivit<br>1606 Conductivit<br>1606 Conductivit<br>1606 Conductivit<br>1606 Conductivit<br>15.1 Conductivit<br>15.1 Conductivit<br>15.1 Conductivit<br>1623 Conductivit<br>15.1 Conductivit<br>1624 Conductivit<br>1645 Conductivit<br>1624 Conductivit<br>1645 Conductivit<br>1624 onductivit<br>1624                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>t</u> <u>sr.een</u> <u>tint</u><br><u><b>tr</b></u> <u>pH</u> <u>NTUs</u> <u>WL</u> <u>Ren</u><br><u>107.75</u><br><u>7.35</u> 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | woved Flow Rate                                | <u>Do</u> <u>ORP</u><br><u>4,33</u> <u>205</u><br><u>3.54</u> <u>205</u><br><u>3.86</u> 210                                  |
| Vater Temp*C       Specific         Physical Appearance $51.2$ Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\frac{1}{2} \frac{2}{7.25} \frac{1}{0} \frac{1}{7.2} \frac{1}{0} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{$ | Hoved Flow Rate                                | <u>Do</u> <u>ORP</u><br><u>4,33</u> <u>205</u><br><u>3.54</u> <u>205</u><br><u>3.86</u> <u>210</u><br><u>3.82</u> <u>210</u> |
| Vater Temp*C       Specific         Physical Appearance $51\%$ Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\frac{1}{2} \frac{2}{7.25} \frac{1}{0} \frac{1}{7.2} \frac{1}{0} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{$ | woved Flow Rate                                | <u>Do</u> <u>ORP</u><br><u>4,33</u> <u>205</u><br><u>3.54</u> <u>205</u><br><u>3.86</u> 210                                  |
| Vater Temp*C       Specific         Physical Appearance $51.6$ Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\frac{1}{2} \frac{2}{7.25} \frac{1}{0} \frac{1}{7.2} \frac{1}{0} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{$ | Hoved Flow Rate                                | <u>Do</u> <u>ORP</u><br><u>4,33</u> <u>205</u><br><u>3.54</u> <u>205</u><br><u>3.86</u> <u>210</u><br><u>3.82</u> <u>210</u> |
| Vater Temp*C       Specific         Physical Appearance $51\%$ Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\frac{1}{2} \frac{2}{7.25} \frac{1}{0} \frac{1}{7.2} \frac{1}{0} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{$ | Hoved Flow Rate                                | <u>Do</u> <u>ORP</u><br><u>4,33</u> <u>205</u><br><u>3.54</u> <u>205</u><br><u>3.86</u> <u>210</u><br><u>3.82</u> <u>210</u> |
| Vater Temp*C       Specific         Physical Appearance $51\%$ Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\frac{1}{2} \frac{2}{7.25} \frac{1}{0} \frac{1}{7.2} \frac{1}{0} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{10} \frac{1}{7.25} \frac{1}{10} \frac{1}{$ | Hoved Flow Rate                                | <u>Do</u> <u>ORP</u><br><u>4,33</u> <u>205</u><br><u>3.54</u> <u>205</u><br><u>3.86</u> <u>210</u><br><u>3.82</u> <u>210</u> |

| Black & Veatch Special Projects Corp.                                      |                                                                                     | Page of (                                 |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|
| MC                                                                         | NITORING WELL                                                                       |                                           |
| DEVELOF                                                                    | PMENT/PURGING DATA                                                                  | Ţ                                         |
| Project Number<br>46118                                                    | Project Name<br>Are Souces                                                          | Date<br>9-21-00                           |
| Monitor Well Number<br>MW-8-D                                              | Field Investigator(s)<br>6. Felkun                                                  | Т                                         |
| WELL DATA<br>INITIAL DEPTH 107.71<br>Total Depth 239<br>Well Diameter 4"   | Water Column Height - 131<br>Well Volume (gals) - 86<br>(x)(height) x=.163 gal/ft @ | 2°, x=.653 gal/ft @ 4°                    |
| METHOD OF WELL DEVELOPMENT<br><u>X</u> Pumping Air Lift<br>Surging Bailing | PHOTOGRAPH IDENTIFICATION NO                                                        | . [<br>                                   |
|                                                                            | Was Well Pumped Dr                                                                  |                                           |
| 3 Well Volumes <u>~258</u> gal                                             | Amount of Water Removed from "                                                      | Hell <u>-650</u> gals                     |
|                                                                            | nductancemicromhos pH                                                               | Turbidity                                 |
| Physical Appearance Greenish                                               | tist                                                                                |                                           |
| Remarks                                                                    |                                                                                     |                                           |
|                                                                            |                                                                                     | Γ                                         |
|                                                                            |                                                                                     | · · · · · · · · · · · · · · · · · · ·     |
| TIME Temp *C Conductivity                                                  | pH NTUS WL Removed Fly                                                              | ow Rate DO ORP                            |
| 0800 Initik W.L.<br>0820 Start Pumpin                                      | 1 <u>07</u> .76′ //                                                                 | <u>1.5 gpm</u>                            |
| 0857 15 1 532                                                              | 7.0 0                                                                               | 502 233                                   |
| 0851 151 572                                                               | 120                                                                                 | 4.63 232                                  |
|                                                                            | 7,3 $O$ $     -$                                                                    | 5.03 231                                  |
| 0903 15. 532                                                               |                                                                                     | 5.08 232                                  |
| CADY 15.1 5.32                                                             | 7.3 0 - 650 jula -                                                                  | 5.08 232                                  |
| 0905 Callent Single + Det                                                  | )1. <u>ceta</u>                                                                     | [                                         |
|                                                                            |                                                                                     |                                           |
|                                                                            |                                                                                     | T                                         |
|                                                                            |                                                                                     |                                           |
|                                                                            |                                                                                     | T                                         |
| NTU - Nephelometric turbidity un:<br>WL - Water level                      | lt <b>s</b>                                                                         | ا<br>ــــــــــــــــــــــــــــــــــــ |
| Checked By AS                                                              |                                                                                     | Date 5-26-00 T                            |

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|                                                                                                                                                                                                                                                                                                      |                                                                                                                       |                                                                                                                                | RING WELL                                                    |                | Page           | l of                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|----------------|------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                      |                                                                                                                       | <b>DPMĘN</b>                                                                                                                   | T/PURGING [                                                  | ATAC           |                |                                                                  |
| Project Number                                                                                                                                                                                                                                                                                       |                                                                                                                       | 1 4                                                                                                                            | ct Name                                                      |                | Date           |                                                                  |
| 46118                                                                                                                                                                                                                                                                                                |                                                                                                                       |                                                                                                                                | e Sources                                                    |                | 9-10           | 1-00                                                             |
| Monitor Well Nu                                                                                                                                                                                                                                                                                      | umber<br>1 - 9 - 5                                                                                                    |                                                                                                                                | I Investigator                                               | (5)            |                |                                                                  |
| WELL DATA                                                                                                                                                                                                                                                                                            | 111 98                                                                                                                |                                                                                                                                |                                                              |                |                |                                                                  |
| Total Depth                                                                                                                                                                                                                                                                                          | 132'                                                                                                                  | ······                                                                                                                         | Well Volume (g                                               | als)           | 13 34          |                                                                  |
| Well Diameter                                                                                                                                                                                                                                                                                        | <u>111.98'</u><br>132'<br>4"                                                                                          |                                                                                                                                | (x)(height)                                                  | c=.163 gal,    | /ft ( 2°, x=.  | 653 gal                                                          |
| METHOD OF WELL                                                                                                                                                                                                                                                                                       |                                                                                                                       |                                                                                                                                | PHOTOGRAPH IDE                                               | ENTIFICATIO    | ON NO.         |                                                                  |
| <u> </u>                                                                                                                                                                                                                                                                                             | Air Lift                                                                                                              |                                                                                                                                |                                                              |                |                |                                                                  |
| Surging                                                                                                                                                                                                                                                                                              | Bailing                                                                                                               |                                                                                                                                |                                                              |                |                |                                                                  |
| WATER SAMPLING                                                                                                                                                                                                                                                                                       |                                                                                                                       | •                                                                                                                              | U                                                            | Vall Bur-      | ed Druž V      | es (                                                             |
|                                                                                                                                                                                                                                                                                                      | Removal <u>Purpi</u>                                                                                                  | /                                                                                                                              |                                                              |                |                |                                                                  |
| 3 Well Volumes                                                                                                                                                                                                                                                                                       | <u>~39</u> 8ª                                                                                                         | ls /                                                                                                                           | mount of Water                                               | r Removed i    | from Well $43$ | 38                                                               |
|                                                                                                                                                                                                                                                                                                      | 0                                                                                                                     |                                                                                                                                |                                                              |                |                |                                                                  |
| Physical Appear<br>Remarks                                                                                                                                                                                                                                                                           | ance                                                                                                                  |                                                                                                                                |                                                              |                |                | Do                                                               |
| Physical Appear<br>Remarks<br>TIME Temp °C                                                                                                                                                                                                                                                           | Conductivity                                                                                                          |                                                                                                                                | NTUS WL.                                                     |                | Flow Rate      | Do                                                               |
| Physical Appear<br>Remarks<br>TIME Temp °C                                                                                                                                                                                                                                                           | ance<br>till <u>Conductivity</u>                                                                                      | <u>рК</u><br>                                                                                                                  |                                                              |                |                | <b>4</b> 2                                                       |
| Physical Appear<br>Remarks<br>TIME Temp °C<br>1350                                                                                                                                                                                                                                                   | Conductivity                                                                                                          | <u>рн</u><br>—<br>7,5                                                                                                          | NTUS (1.98'                                                  |                | Flow Rate      |                                                                  |
| Physical Appear<br>Remarks<br>TIME Temp °C<br>1350<br>i415                                                                                                                                                                                                                                           | $\frac{Conductivity}{4}$                                                                                              | <u>рн</u><br>                                                                                                                  |                                                              |                |                | <b>4</b><br>7.9<br>7.6                                           |
| Physical Appear<br>Remarks<br>TIME Temp °C<br>$1350 T_11415 54\omega1424 151$                                                                                                                                                                                                                        | tial<br><u>Conductivity</u><br>tial<br><u>Pu-piny</u><br><u>666</u>                                                   | <u>рн</u><br>—<br>7,5                                                                                                          | NTUS (1.98'                                                  |                |                | <b>4</b><br>7.9<br>7.6                                           |
| Physical Appear<br>Remarks<br><u>TIME Temp °C</u><br><u>1350 T</u><br><u>1415 S400</u><br><u>1424 1511</u><br><u>1420 151</u>                                                                                                                                                                        | $\frac{Conductivity}{4}$                                                                                              | <u>рн</u><br>                                                                                                                  | NTUS (11.98'                                                 |                |                | <b>4</b><br>7.9<br>7.6<br>7,5                                    |
| Physical Appear<br>Remarks<br>TIME Temp °C<br>1350<br>1350<br>1415<br>1424<br>1424<br>1420<br>15.1<br>1422<br>15.1                                                                                                                                                                                   | $\frac{Conductivity}{Find}$                                                                                           | <u>рн</u><br>—<br>7 <u>,5</u><br>7 <u>,3</u><br>7 <u>,2</u> 5                                                                  | NTU: 11.<br>10.<br>3.8.<br>1,2.                              |                |                | <b>4</b><br>7.9<br>7.6<br>7,5                                    |
| Physical Appear<br>Remarks<br>$\overline{\text{TIME}}  \underline{\text{Temp °C}}$<br>$1350  \underline{1}_{1}^{1}$<br>$1415  54\infty$<br>1424  15.1<br>1430  15.1<br>1432  15.1<br>1435  15.1<br>1435  15.1<br>1435  15.1                                                                          | $\frac{Conductivity}{Find}$                                                                                           | <u>рн</u><br><br>7,5<br>7,3<br>7,25<br>7,24<br>1,26                                                                            | NTUS (VI.98'<br>10                                           |                |                | <b>4</b><br>7.9<br>7.6<br>7.5<br>7.5                             |
| Physical Appear<br>Remarks<br><u>TIME</u> <u>Temp °C</u><br><u>1350</u> <u>T</u><br><u>1415</u> <u>54</u><br><u>1424</u> <u>151</u><br><u>1430</u> <u>151</u><br><u>1435</u> <u>151</u><br><u>1435</u> <u>151</u><br><u>1442</u> <u>151</u><br><u>1442</u> <u>151</u>                                | $\frac{conductivity}{conductivity} + \frac{p_{U} - p_{u}}{666} - \frac{653}{643} - \frac{643}{642} - \frac{642}{620}$ | <b>PH</b><br><br>7,5<br>7,3<br>7,25<br>7,24<br>1,26<br>7,25                                                                    | NTUS (VL<br>10<br>3.8<br>0.6<br>1,2<br>0<br>0                |                |                | <b>4</b><br>7.9<br>7.6<br>7.5<br>7.6<br>7.6<br>7.4               |
| Physical Appear<br>Remarks<br>TIME Temp °C<br>1350 T.:<br>1415 54 $\infty$<br>1424 15,1<br>1420 15,1<br>1420 15,1<br>1423 15,1<br>1425 15,1<br>1442 15,1<br>1442 15,1<br>1447 15,2                                                                                                                   | $\frac{conductivity}{conductivity}$                                                                                   | <u>рн</u><br>–<br>7, <u>5</u><br>7, <u>2</u> 5<br>7, <u>24</u><br>1, <u>26</u><br>7, <u>25</u><br>7, <u>25</u><br>7, <u>25</u> | NTU: VIL<br>10<br>3.8<br>0.6<br>1,2<br>0<br>0                | <u>Removed</u> |                | 7.9<br>7.9<br>7.6<br>7.5<br>7.5<br>7.6<br>7.4<br>7.4             |
| Physical Appear<br>Remarks<br>$\overline{TIME}$ Temp °C<br>1350 T.:<br>1450 T.:<br>1424 $15.11420$ $15.11423$ $15.11423$ $15.11423$ $15.11423$ $15.11423$ $15.11423$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.1$ | $\frac{conductivity}{conductivity} \\ \frac{P_{U} - P_{U}}{666} \\ \frac{653}{643} \\ \frac{642}{620} \\ \end{array}$ | <b>PH</b><br><br>7,5<br>7,3<br>7,25<br>7,24<br>1,26<br>7,25                                                                    | NTU: 11.<br>10<br>3.8<br>0.6<br>1.2<br>0<br>0<br>0<br>0<br>0 |                |                | <b>4</b><br>7.9<br>7.6<br>7.5<br>7.6<br>7.6<br>7.4               |
| Physical Appear<br>Remarks<br>TIME Temp °C<br>1350 T.:<br>1415 54 $co$<br>1424 15,1<br>1420 15,1<br>1420 15,1<br>1425 15,1<br>1442 15,1<br>1442 15,1<br>1444 15,1<br>1447 15,2<br>1450 15,1<br>1450 5 $cov$                                                                                          | $\frac{conductivity}{conductivity}$                                                                                   | <u>рн</u><br>–<br>7, <u>5</u><br>7, <u>2</u> 5<br>7, <u>24</u><br>1, <u>26</u><br>7, <u>25</u><br>7, <u>25</u><br>7, <u>25</u> | NTU: VIL<br>10<br>3.8<br>0.6<br>1,2<br>0<br>0                | <u>Removed</u> |                | <b>4</b><br>7.9<br>7.6<br>7.5<br>7.5<br><u>7.6</u><br>7.4<br>7.4 |
| Physical Appear<br>Remarks<br>$\overline{TIME}$ Temp °C<br>1350 T.:<br>1450 T.:<br>1424 $15.11420$ $15.11423$ $15.11423$ $15.11423$ $15.11423$ $15.11423$ $15.11423$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.11442$ $15.1$ | $\frac{conductivity}{conductivity}$                                                                                   | <u>рн</u><br>–<br>7, <u>5</u><br>7, <u>2</u> 5<br>7, <u>24</u><br>1, <u>26</u><br>7, <u>25</u><br>7, <u>25</u><br>7, <u>25</u> | NTU: VIL<br>10<br>3.8<br>0.6<br>1,2<br>0<br>0                | <u>Removed</u> |                | <b>4</b><br>7.9<br>7.6<br>7.5<br>7.5<br>7.5<br>7.4<br>7.4        |

| Black & Veatch Special Projects Corp.                                                              |                                                                                                | Page ) of (                                                                                               |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|                                                                                                    | DNITORING WELL<br>PMENT/PURGING DATA                                                           | _                                                                                                         |
| Project Number<br>46118                                                                            | Project Name<br>Acr Sarvkes                                                                    | Date 9-19-00 -                                                                                            |
| Monitor Well Number<br>MW-9-I                                                                      | Field Investigator(s)<br>G. Falknen                                                            |                                                                                                           |
| WELL DATA<br>INITIAL DEPTH 111.79'<br>Total Depth 190<br>Well Diameter 4"                          | Water Column Height <u>~ 8</u><br>Well Volume (gals) <u>~ 9</u><br>(x)(height) x=.163 gal/ft @ | 0'<br>3<br>2°, x=.653 gal/ft @ 4°                                                                         |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing                                  | PHOTOGRAPH IDENTIFICATION NO                                                                   | · · · · · · · · · · · · · · · · · · ·                                                                     |
| WATER SAMPLING DATA<br>Method of Water Removal                                                     | Mas Well Pumped Dr                                                                             | y7 Yes No                                                                                                 |
| 3 Well Volumes - 160 gal                                                                           | s Amount of Water Removed from                                                                 | well <u>"480 g</u> als                                                                                    |
| FINAL FIELD ANALYSIS<br>Water Temp°C Specific Co                                                   | onductancemicromhos pH                                                                         | Turbidity                                                                                                 |
| Physical Appearance Greenis                                                                        | h tint                                                                                         |                                                                                                           |
|                                                                                                    |                                                                                                |                                                                                                           |
| Remarks                                                                                            |                                                                                                |                                                                                                           |
| Remarks                                                                                            |                                                                                                | ا<br>٦                                                                                                    |
| Remarks                                                                                            | /                                                                                              | OW Rate DO ORP                                                                                            |
| <u>STIME Temp °C Conductivity</u><br><u>1600</u><br><u>1615 Stat Pumping</u>                       | <u>pH NTUS WL Removed F1</u>                                                                   | 2 spr 1                                                                                                   |
| <u>     TIME Temp • C Conductivity</u> <u>1600     1615 Stat Pumpin</u> <u>1640 15, 7 591     </u> | <u>pH NTUS WL Removed F1</u>                                                                   | $\frac{2}{9er} - \frac{4.11}{4.6} = \frac{2.04}{2.04}$                                                    |
| GTIME       Temp • C       Conductivity         1600                                               | <u>pH NTUS WL Removed F1</u>                                                                   | $\frac{2}{9er} - \frac{4.11}{4.6} = \frac{2.04}{2.04}$                                                    |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                              | <u>pH NTUS WL Removed F1</u>                                                                   | $\frac{2}{90} - \frac{4.11}{4.6} = \frac{204}{211} - \frac{4.6}{212} = \frac{211}{4.5} = \frac{212}{212}$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                              | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                          | $\frac{2}{9er} - \frac{4.11}{4.6} = \frac{2.04}{2.04}$                                                    |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                              | <u>pH NTUS WL Removed F1</u>                                                                   | $\frac{2}{90} - \frac{4.11}{4.6} = \frac{204}{211} - \frac{4.6}{212} = \frac{211}{4.5} = \frac{212}{212}$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                              | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                          | $\frac{2}{90} - \frac{4.11}{4.6} = \frac{204}{211} - \frac{4.6}{212} = \frac{211}{4.5} = \frac{212}{212}$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                              | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                          | $\frac{2}{90} - \frac{4.11}{4.6} = \frac{204}{211} - \frac{4.6}{212} = \frac{211}{4.5} = \frac{212}{212}$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                              | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                          | $\frac{2}{90} - \frac{4.11}{4.6} = \frac{204}{211} - \frac{4.6}{212} = \frac{211}{4.5} = \frac{212}{212}$ |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                            | DNITORING                                |                                                        | ATA                        | Page      | of                                    | -+                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------|----------------------------|-----------|---------------------------------------|--------------------------|
| Project Number<br>46(18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                            | Project N<br>Ace                         | Services                                               | )<br>)                     | Date 9.   | -20-00                                | \$                       |
| Monitor Well Numb<br>MW-9-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                                                                                                          |                                          | estigator(s<br>Folknen                                 |                            |           |                                       |                          |
| WELL DATA<br>INITIAL DEPTH<br>Total Depth<br>Well Diameter<br>METHOD OF WELL DE<br>Pumping<br>Surging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VELOPMENT<br>Air Lift                                                                                                                                                      |                                          | r Column He<br>Volume (ga<br>height) x=<br>OGRAPH IDEN |                            |           | 53 gal/f                              | t <b>(</b> 4*            |
| WATER SAMPLING DA<br>Method of Water R<br>3 Well Volumes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | emoval                                                                                                                                                                     |                                          |                                                        |                            |           |                                       |                          |
| FINAL FIELD ANALY<br>Water Temp<br>Physical Appearan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •C Specific Co                                                                                                                                                             |                                          | micros                                                 | nhos pH_                   |           |                                       |                          |
| Water Temp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ec specific Co<br>ce <u>G-eanist</u>                                                                                                                                       |                                          |                                                        | nhos pH                    |           |                                       |                          |
| Vater Temp<br>Physical Appearan<br>Remarks<br><u>GIME Temp *C</u><br><u>0820</u> ia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>Conductivity</u>                                                                                                                                                        |                                          |                                                        |                            | Flow Rate |                                       | ORP                      |
| Water Temp<br>Physical Appearan<br>Remarks<br>$\underline{\text{TIME}}$ $\underline{\text{Temp } \circ C}$<br>$\underline{OB20}$ $\underline{\text{T}_{n}} + ia$<br>$\underline{OB35}$ $\underline{-} + ia$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>552</u>                                                                     | <u>ph</u> NTU                            | E <u>YL</u><br>11 <u>3-3</u> 2'                        | 22 (01)                    |           | <u>Do</u><br>4.4                      | <br>                     |
| Water Temp<br>Physical Appearan<br>Remarks<br>$\overline{\text{TIME}}$ Temp °C<br>$\overline{\text{OB20}}$ $\underline{\text{T}}_{n}$ . $\frac{1}{4}$ .<br>$\overline{\text{OB35}}$ $\underline{\text{S}}_{1}$ $\underline{\text{S}}_{2}$<br>$\underline{\text{OB35}}$ $\underline{\text{S}}_{1}$ $\underline{\text{S}}_{2}$<br>$\underline{\text{OB35}}$ $\underline{\text{S}}_{1}$ $\underline{\text{S}}_{2}$<br>$\underline{\text{OB35}}$ $\underline{\text{S}}_{1}$ $\underline{\text{S}}_{2}$<br>$\underline{\text{S}}_{1}$ $\underline{\text{OB35}}$ $\underline{\text{S}}_{2}$ $\underline{\text{S}}_{2}$ $\underline{\text{S}}_{2}$<br>$\underline{\text{S}}_{1}$ $\underline{\text{S}}_{2}$                                                                                                                                                                                                                                                                                                                                    | Conductivity<br>$ \frac{Conductivity}{U.L.} $ $ \frac{U.L.}{554} $ $ \frac{554}{554} $                                                                                     | <u>PH</u> NTV<br>7.2 0<br>7.3 0<br>7.3 0 | <u>ч</u><br>11 <u>3-</u> 32'                           | 2 2 64(-<br><b>Removed</b> | Flow Rate | <b>DO</b><br>4,4<br>4,4<br>4,4<br>4,4 | <u>220</u><br>216<br>217 |
| Water Temp<br>Physical Appearan<br>Remarks<br>1IME Temp °C<br>0820<br>0835<br>0835<br>0835<br>5.3<br>0703<br>15.3<br>0705<br>15.3<br>0705<br>15.3<br>0701<br>15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>Conductivity</u><br><u>Conductivity</u><br><u>W.L.</u><br><u>552</u><br><u>554</u>                                                                                      | <u>ph</u> NTU                            | <u>ч</u><br>11 <u>3-</u> 32'                           | 22 (01)                    | Flow Rate | <b>DO</b><br>4,4<br>4,4<br>4,4<br>4,4 | <u> </u>                 |
| Water Temp<br>Physical Appearan<br>Remarks<br>1IME Temp °C<br>0820<br>0835<br>0835<br>0835<br>5.3<br>0703<br>15.3<br>0705<br>15.3<br>0705<br>15.3<br>0701<br>15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -C Specific Co<br>ce <u>G-equiv</u><br><u>Conductivity</u><br><u>U.L.</u><br><u><u>βυφί</u><br/><u>552</u><br/><u>554</u><br/><u>554</u><br/><u>554</u><br/><u>555</u></u> | <u>PH</u> NTV<br>7.2 0<br>7.3 0<br>7.3 0 | <u>ч</u><br>11 <u>3-</u> 32'                           | 2 2 64(-<br><b>Removed</b> | Flow Rate | <b>DO</b><br>4,4<br>4,4<br>4,4<br>4,4 | <u>220</u><br>216<br>217 |
| Water Temp<br>Physical Appearan<br>Remarks<br>$\overline{\text{TIME}}$ Temp °C<br>$\overline{\text{OB20}}$ $\underline{\text{T}}_{n}$ . $\underline{1}_{n}$<br>$\overline{\text{OB35}}$ $\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$<br>$\underline{5.3}$ | -C Specific Co<br>ce <u>G-equiv</u><br><u>Conductivity</u><br><u>U.L.</u><br><u><u>βυφί</u><br/><u>552</u><br/><u>554</u><br/><u>554</u><br/><u>554</u><br/><u>555</u></u> | <u>PH</u> NTV<br>7.2 0<br>7.3 0<br>7.3 0 | <u>ч</u><br>11 <u>3-</u> 32'                           | 2 2 64(-<br><b>Removed</b> | Flow Rate | <b>DO</b><br>4,4<br>4,4<br>4,4<br>4,4 | <u>220</u><br>216<br>217 |
| Water Temp<br>Physical Appearan<br>Remarks<br>GIME Temp °C<br>0820ia<br>0835ia<br>0835ia<br>0835ia<br>0857ia<br>0857ia<br>0103ia<br>0103ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105ia<br>0105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -C Specific Co<br>ce <u>G-equiv</u><br><u>Conductivity</u><br><u>U.L.</u><br><u><u>βυφί</u><br/><u>552</u><br/><u>554</u><br/><u>554</u><br/><u>554</u><br/><u>555</u></u> | <u>PH</u> NTV<br>7.2 0<br>7.3 0<br>7.3 0 | <u>ч</u><br>11 <u>3-</u> 32'                           | 2 2 64(-<br><b>Removed</b> | Flow Rate | <b>DO</b><br>4,4<br>4,4<br>4,4<br>4,4 | <u>220</u><br>216<br>217 |

| DEVEL                                                            | MONITOBING WELL                                                     | Page of                             |
|------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------|
| DEVEL                                                            |                                                                     |                                     |
| roject Number                                                    | OPMENT/PURGING DATA                                                 | 1                                   |
|                                                                  |                                                                     |                                     |
| 46118                                                            | Project Name<br>Ace Services                                        | Dete 9-18-00                        |
| my-11-5                                                          | Field Investigator(s)<br>6. Felkner                                 |                                     |
| ELL DATA<br>NITIAL DEPTH 117.66                                  | Water Column Height<br>Well Volume (gals)<br>(x)(height) x=.163 gal | 20                                  |
| otal Depth <u>140</u>                                            | (x)(height) x=.163 gal                                              | /ft ( 2", (x=.653 gal/ft ( 4")      |
| ETHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing | · PHOTOGRAPH IDENTIFICATI                                           | ON NO.                              |
| ATER SAMPLING DATA                                               | Was Well Pump                                                       | ed Dry? Yes No                      |
| - 1                                                              | als Amount of Water Removed                                         |                                     |
| TINAL FIELD ANALYSIS                                             | Conductancemicromhos pN_                                            | The state is a                      |
|                                                                  | wonauctancemicromos pa_                                             | INFOIDICY                           |
| Physical Appearance                                              |                                                                     |                                     |
|                                                                  |                                                                     |                                     |
| lenerks                                                          |                                                                     |                                     |
|                                                                  | •                                                                   |                                     |
|                                                                  |                                                                     |                                     |
| <u>11HE Temp °C Conductivity</u><br>241 <u> </u>                 |                                                                     | Flow Rate DO QRP                    |
|                                                                  |                                                                     | 15                                  |
|                                                                  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                | 15 gen 7,07 226                     |
| 340 <u>15.3</u> <u>676</u><br>345 <u>15.2</u> <u>669</u>         |                                                                     | <u> </u>                            |
| 345 15.2 669                                                     |                                                                     |                                     |
| 347 15,1 668<br>351 15,1 665                                     |                                                                     | 6.98 223                            |
| 351 15,1 665                                                     |                                                                     | 6,90 221                            |
| 352 15. 664                                                      | 7.2 15:                                                             | Z18 220                             |
| 1353 15.1 665                                                    | 7.2 0 900 10                                                        | li <u>V</u> 7 <u>117</u> <u>220</u> |
| 1355 Collet sight                                                |                                                                     |                                     |
|                                                                  |                                                                     |                                     |
|                                                                  |                                                                     |                                     |
|                                                                  |                                                                     |                                     |
|                                                                  |                                                                     |                                     |
| NTU - Nephelometric turbidity<br>WL - Water level                | units                                                               |                                     |
|                                                                  |                                                                     | Dete<br>9-26-00                     |

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| Black & Veatch Special Projects Co                                                                                                                             | orp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Page                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|                                                                                                                                                                | MONITORING WELL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
|                                                                                                                                                                | LOPMENT PURGING DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
| Project Number<br>46118                                                                                                                                        | Project Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Doto 9-18                           |
| Monitor Well Number<br>M W - 11- I                                                                                                                             | Field Investigator(s)<br>Frikan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| WELL DATA                                                                                                                                                      | Water Column Height<br>Well Volume (gals)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80'                                 |
| WELL DATA<br>INITIAL DEPTH 120,05'<br>Total Depth 200'                                                                                                         | Well Volume (gals)<br>(x)(height) x=.163 ga                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 52 34                               |
| Well Diameter 4"                                                                                                                                               | (x)(Reight) x=.103 ga                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11/22 Q Z", X=.033                  |
| METHOD OF WELL DEVELOPMENT                                                                                                                                     | PHOTOGRAPH IDENTIFICAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ION NO.                             |
| <u> </u>                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
|                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| Method of Water Removal                                                                                                                                        | mars. 64 pump Was Well Pu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | aped Dry7 Yes                       |
| 3 Well Volumes <u>~15</u> /                                                                                                                                    | gals Amount of Water Removed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | from Well <u>~429</u>               |
| FINAL FIELD ANALYSIS                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
|                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| water TempC specific                                                                                                                                           | conductancemicromhos p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H Turbidity                         |
| Physical Appearance                                                                                                                                            | c Conductancemicromhos p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | H Turbidity                         |
| Physical Appearance                                                                                                                                            | c Conductancemicromhos p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | K Turbidity,                        |
|                                                                                                                                                                | c Conductancemicromhos p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | H Turbidity                         |
| Physical Appearance                                                                                                                                            | conductancemicromhos p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H Turbidity                         |
| Physical Appearance<br>Remarks<br>TIME Temp *C Conductivit                                                                                                     | Y DH NTUS VL BEDOVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Flow Rate                           |
| Physical Appearance<br>Remarks<br>TIME Temp *C Conductivit<br>1100 i.l                                                                                         | Y DH NTUS VL BEDOVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Flow Rate                           |
| Physical Appearance<br>Remarks<br>TIME Temp *C Conductivity<br>1100i                                                                                           | TY DK NTUS VI BEDOXED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 14.3 300 -                          |
| Physical Appearance<br>Remarks<br>TIME Temp *C Conductivity<br>1100i                                                                                           | TY DK NTUS VI BEDOXED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 14.3 300 -                          |
| Physical Appearance<br>Remarks<br>TIME Temp *C Conductivity<br>1100i                                                                                           | TY DK NTUS VI BEDOXED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>Elov Rata</u><br><u>14.3</u> 000 |
| Physical Appearance<br>Remarks<br>TIME TEED °C Conductivit<br>1100 $free interval 1120 Struct proving 1138 15.7 637 1142 15.5 634 1145 15.4 631 1150 15.4 631$ | Y DH NTUS VL BEDOVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14.3 jon                            |
| Physical Appearance<br>Remarks<br>TIME Temp *C Conductivity<br>1100i                                                                                           | TY DK NTUS VI BEDOXED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>Elov Rata</u><br><u>14.3</u> 000 |
| Physical Appearance<br>Remarks<br>TIME TEED °C Conductivit<br>1100 $free i = 1$<br>1120 $54res proving$                                                        | TY DK NTUS VI BEDOXED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>Flow Rata</u><br><u>143</u> 000  |
| Physical Appearance<br>Remarks<br>TIME TEED °C Conductivit<br>1100 $free i = 1$<br>1120 $54res proving$                                                        | TY DK NTUS VI BEDOXED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>Elov Rata</u><br><u>143</u> 000  |
| Physical Appearance<br>Remarks<br>TIME TEED °C Conductivit<br>1100 $free i = 1$<br>1120 $54res proving$                                                        | TY DK NTUS VI BEDOXED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>Elov Rata</u><br><u>143</u> 000  |
| Physical Appearance<br>Remarks<br>TIME TEED °C Conductivit<br>1100 $free i = 1$<br>1120 $54res proving$                                                        | TY DK NTUS VI BEDOXED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>Elov Rata</u><br><u>143</u> 000  |
| Physical Appearance<br>Remarks<br>TIME TEED °C Conductivit<br>1100 $free i = 1$<br>1120 $54res proving$                                                        | $\frac{1}{2} \frac{2}{2} \frac{1}{2} \frac{1}$ | <u>Elov Rata</u><br><u>143</u> 000  |

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| N                                                                                       | γ <b>p</b> .                                                                                                                                                                                                                                               | Page ( of (                                            |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|                                                                                         | IONITORING WELL                                                                                                                                                                                                                                            |                                                        |
| DEVEL                                                                                   | OPMENT/PURGING DADA                                                                                                                                                                                                                                        | Ţ                                                      |
| Project Number<br>46118                                                                 | Project Name<br>Ale Services                                                                                                                                                                                                                               | Date 5-21-00                                           |
| Monitor Well Number<br>MW-11-D                                                          | Field Investigator(s)<br>G. Felkner                                                                                                                                                                                                                        | TT                                                     |
| WELL DATA<br>INITIAL DEPTH 122.37'<br>Total Depth -249<br>Well Diameter 4               | Water Column Height<br>Well Volume (gals)<br>(x)(height) x=.163 gal                                                                                                                                                                                        | 127<br>~ 83<br>1/ft @ 2*, x=.653 gal/ft @ 4*           |
| METHOD OF WELL DEVELOPMENT<br>Air Lift<br>Surging Bailing                               | PHOTOGRAPH IDENTIFICATI                                                                                                                                                                                                                                    | ION NO.                                                |
| WATER SAMPLING DATA<br>Method of Water Removal <u>Pr-gin</u>                            |                                                                                                                                                                                                                                                            |                                                        |
| 3 Well Volumes ~ 250 ga                                                                 | als Amount of Water Removed                                                                                                                                                                                                                                | from Well <u>-400 sals g</u> els                       |
| FINAL FIELD ANALYSIS<br>Water Temp°C Specific (                                         | Conductancemicromhos pH                                                                                                                                                                                                                                    | Turbidity                                              |
| Physical Appearance                                                                     |                                                                                                                                                                                                                                                            | I                                                      |
| Remarks                                                                                 |                                                                                                                                                                                                                                                            | <br>T                                                  |
|                                                                                         |                                                                                                                                                                                                                                                            |                                                        |
|                                                                                         | 16 500.                                                                                                                                                                                                                                                    |                                                        |
| <u>TIME Temp °C Conductivity</u>                                                        | pH NTUS WL Removed                                                                                                                                                                                                                                         | Flow Rate DO ORP                                       |
| 0744 Into La                                                                            | evel 122.37                                                                                                                                                                                                                                                |                                                        |
| 0944 <u>J.</u> 4:4 Water La<br>1000 <u>Start purgens</u><br>1018 <u>15.3</u> <u>466</u> | evel 122.37                                                                                                                                                                                                                                                | <u>11.5</u><br><u>7.4</u> <u>207</u>                   |
| $\frac{1000}{025} = \frac{15.3}{15.3} = \frac{466}{466}$                                | evel 122.37                                                                                                                                                                                                                                                | $\frac{11.5_{50}}{7.4} = \frac{7.4}{207}$              |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                   | evel 122.37                                                                                                                                                                                                                                                | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                   | $\begin{array}{c c} \underline{pH} & \underline{NTUs} & \underline{WL} & \underline{Removed} \\ \hline 122.37 \\ \hline \\ 7.4 & \underline{O} \\ \end{array}$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                    | evel 122.37                                                                                                                                                                                                                                                | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                   | $\begin{array}{c c} \underline{pH} & \underline{NTUs} & \underline{WL} & \underline{Removed} \\ \hline 122.37 \\ \hline \\ 7.4 & \underline{O} \\ \end{array}$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                   | $\begin{array}{c c} \underline{pH} & \underline{NTUs} & \underline{WL} & \underline{Removed} \\ \hline 122.37 \\ \hline \\ 7.4 & \underline{O} \\ \end{array}$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                   | $\begin{array}{c c} \underline{pH} & \underline{NTUs} & \underline{WL} & \underline{Removed} \\ \hline 122.37 \\ \hline \\ 7.4 & \underline{O} \\ \end{array}$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                   | $\begin{array}{c c} \underline{pH} & \underline{NTUs} & \underline{WL} & \underline{Removed} \\ \hline 122.37 \\ \hline \\ 7.4 & \underline{O} \\ \end{array}$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                       | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

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| 46/18       Note Service       9/18/00         Monitor Veil Number       Field Investigator(s)       Number         MUU2-S       K.L. Modda.         VELL DATA       Mu2-S       K.L. Modda.         WITTAL DEPTH       103-07       Water Column Height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DEV                                                                                                                                           | MONITORING WELL<br>ELOPMENT/PURGING DATA                                |                                                                                                                                                                             |
| Monitor Vell Number       Field Investigator(s)         Monitor Vell Number       Field Investigator(s)         Multiplication       K.k. Modda         Vell Data       Value (gals)         Well Solume (gals)       Well Volume (gals)         Vell Data       Multiplication         METHOD OF VELL DEVELOPMENT       PhotoGRAPH IDENTIFICATION NO.         Pumping       Air Lift         Surging       Bailing         VALE RAMALYSIS       Vas Vell Pumped Dry?       Yes         Method of Vater Removal       Dispace       Vas Vell Pumped Dry?       Yes         No       Swell Volumes       NA       gals       Amount of Vater Removed from Vell       NA         Swell Volumes       Na       gals       Amount of Vater Removed from Vell       NA       gals         Notice       Notice       Notice       Notice       Notice       Notice         Mainer       Notice       Notice       Notice       Notice       Notice         Matter Removed       Flow Rate       DO       QCP         Matter Removed       Flow Rate       DO       QCP         Matter Removed       Flow Rate       DO       QCP         Mater Removed       Flow Rate       DO                                                                                   | Project Number<br>46/18                                                                                                                       |                                                                         | Date<br>9/18/00                                                                                                                                                             |
| INITIAL DEPTH       [43,07]       Vater Column Height.         Total Depth       [43,07]       Water Column Height.         Well Diameter       4"       (x) (height) x=.163 gal/ft & 2". x=.653 gal/ft & 4"         Well Diameter       4"       (x) (height) x=.163 gal/ft & 2". x=.653 gal/ft & 4"         Well Diameter       4"       PHOTOGRAPH IDENTIFICATION NO.         Pumping       Air Lift       Photography         Surging       Bailing       Was Vell Pumped Dry?       Yes         WATER SAMPLING DATA       Micro-funging       Was Vell Pumped Dry?       Yes         Surging       Data       Amount of Water Removed from Well       NA         Surging 20.3*C       Specific Conductance ZOD micromhos pH 7.1       Turbidity 7.4         Physical Appearance       Normal       Was Of       Intributy 7.4         IDIM       Image Mater Removed | _                                                                                                                                             | Field Investigator(s)                                                   |                                                                                                                                                                             |
| FINAL FIELD ANALYSIS<br>Water Temp 20.2 °C Specific Conductance 700 micromhos pH 7.1 Turbidity 7.4<br>Physical Appearance Normal<br>Remarks<br>TIME Temp °C Conductivity pH NTUS WL Removed Flow Rate DO QRP<br>900 water lovel messers WL07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | INITIAL DEPTH 143.07<br>Total Depth 165<br>Well Diameter 4 <sup>11</sup><br>METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing | Well Volume (gals)<br>(x)(height) x=.163 gal<br>PHOTOGRAPH IDENTIFICATI | /ft @ 2°, x=.653 gal/ft @ 4°<br>ON NO.                                                                                                                                      |
| 900       water level medines       14207         1012       Water Prepins started head avercome       11153.0         1024       A3       690       7.14       180       11153.0         1032       A9       696       7.16       310       7.00       378         1032       A9       696       7.16       310       7.00       378         1033       20.1       700       7.15       7.2       7.02       55.9         10:44       20.1       698       7.12       7.2       6.98       50.4         10:44       20.1       698       7.12       7.2       6.98       50.4         10:44       20.1       698       7.12       7.2       6.98       50.7         10:44       20.1       698       7.12       7.2       6.91       52.7         10:53       20.2       700       7.10       7.4       6.91       51.3         10:54       Samples taken       W-MW-12-5-091800P       and W-MW-12-5-091600-P       and ChNOmium VI         1105       15.94       collected For track: 11/14       Study                                                                                                                                                                                                                                                 |                                                                                                                                               |                                                                         |                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               | دا                                                                      |                                                                                                                                                                             |
| MM MELEA AUTEA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Remarks         "TIME       Temp °C       Conductivity         900                                                                            | Lty DH NTUE WL Removed<br>25.18                                         | <u>I L/min</u> <u>III</u> <u>53.0</u><br><u>7.00</u> <u>378</u><br><u>7.02</u> <u>55.9</u><br><u>6.98</u> <u>50.7</u><br><u>6.99</u> <u>52.7</u><br><u>6.91</u> <u>51.3</u> |

| Black & Veatch Special Projects C                 | orp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Page of                               |
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|                                                   | MONITORING WELL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| DEVE                                              | LOPMENT/RURGING DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |
| Project Number                                    | Project Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Date                                  |
| +6118                                             | Ale Services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9/18/00 -                             |
| Monitor Well Number                               | Field Investigator(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                     |
| MW12-I                                            | Madden / Felkner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ·                                     |
| WELL DATA<br>INITIAL DEPTH 143.42                 | Water Column Height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13.42 68                              |
| Total Depth 211                                   | Well Volume (gals)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ∠14,4<br>/ft € 2°, x=.653 gal/ft € 4° |
| Well Diameter <u>4</u>                            | (x)(neight) x=.103 gal,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IL E Z , X000 KEL/IL E 4'             |
| METHOD OF WELL DEVELOPMENT                        | PHOTOGRAPH IDENTIFICATIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>DN NO</b> .                        |
| Pumping Air Lift                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| Surging Bailing                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | т                                     |
| WATER SAMPLING DATA                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ed Dry? Yes No                        |
| Method of Water Removal $-\frac{2u^2}{2u^2}$      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| 3 Well Volumes <u>~133</u>                        | gals Amount of Water Removed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | from Well <u>540</u> gals             |
| FINAL FIELD ANALYSIS                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
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| OE3C Initia W.L. 14                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
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| $\frac{2^{3}35}{151}$ <u>437</u>                  | 7. <u>7</u> <u>C</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u> </u>                              |
| <u>0940 15.2 439</u>                              | 7.3 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $ \frac{7.6}{1.6} \frac{227}{1.011}$  |
| 095 172 440                                       | 7.3 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 76 194                                |
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| <u>1010 15,2 442</u>                              | <u>7.4</u> <u>0</u> <u>-540</u> <u>-</u> <u>540</u> <u>-</u> <u>5</u> | 12 yr 7.5 192                         |
| 1010 Collar surgle W                              | -mv-12-I-091800-P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       |
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| DEVEL                                                                                                                                                                                           | OPMENT/PURGING DATA                                                                                                                                           |                                  |                                          |
| Project Number<br>46118                                                                                                                                                                         | Project Name<br>Ace Services                                                                                                                                  | Date<br>J-                       | 20-00                                    |
| Monitor Well Number<br>MW-12-D                                                                                                                                                                  | Field Investigator(s)<br>G Felkm                                                                                                                              |                                  |                                          |
| WELL DATA<br>INITIAL DEPTH 144.87<br>Total Depth 263<br>Well Diameter 4"                                                                                                                        | Water Column Height<br>Well Volume (gals)<br>(x)(height) x=.163 gal                                                                                           | - 118<br>- 78<br>./ft @ 2", x=.6 | 53 gal/ft @ 4*                           |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing                                                                                                                               | PHOTOGRAPH IDENTIFICATI                                                                                                                                       | ON NO.                           |                                          |
| WATER SAMPLING DATA                                                                                                                                                                             | maing Was Well Pump                                                                                                                                           | ped Dry? Ye                      | s (No)                                   |
|                                                                                                                                                                                                 | gals Amount of Water Removed                                                                                                                                  |                                  |                                          |
| FINAL FIELD ANALYSIS                                                                                                                                                                            | Conductancemicromhos pH_                                                                                                                                      | Turbidi                          | tv                                       |
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| Physical Appearance (1000                                                                                                                                                                       |                                                                                                                                                               |                                  |                                          |
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|                                                                                                                                                                                                 |                                                                                                                                                               |                                  |                                          |
| Remarks                                                                                                                                                                                         | r <u>ph NTUs WL</u> <u>Removed</u><br>)44.87'                                                                                                                 | Flow Rate                        | DO ORP                                   |
| Remarks<br><u> TIME Temp *C Conductivity</u>                                                                                                                                                    |                                                                                                                                                               | Flow Rate                        |                                          |
| Remarks<br><u>CTIME Temp °C Conductivity</u><br><u>0949tid W.L.</u><br><u>1007 Start pu-pins</u><br><u>103354369</u>                                                                            | 7,6 3                                                                                                                                                         |                                  | 7.8 212                                  |
| Remarks<br>$GIME = Iemp \circ C = Conductivity$<br>$0949 = T_n fid = W.L.$<br>1007 = Start propring = 1033 = 1544 = -369<br>1037 = 15.44 = -374                                                 | - <u>144.87'</u><br>- <u>7,6</u> <u>3</u><br>- <u>7,6</u> <u>0,7</u>                                                                                          |                                  | <u>7.8</u> <u>212</u><br>7.8 <u>214</u>  |
| Remarks         GIME       Temp °C       Conductivity $0949$ $\underline{T}_n$ tid $W.L.$ $1007$ $\underline{Start}$ $pv-pins$ $1033$ $154$ $369$ $1037$ $154$ $371$ $1041$ $15.4$ $372$        |                                                                                                                                                               | At 9,2                           | 7.8 212<br>7.8 214<br>7.8 214<br>7.8 215 |
| Remarks         GIME       Temp °C       Conductivity $0949$ $\underline{T}_n$ fid $W.L.$ $1007$ $54at$ $pv-pins$ $1033$ $154$ $369$ $1037$ $154$ $371$ $1037$ $15.4$ $372$ $1043$ $15.4$ $373$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                          | At 9,2                           | <u>7.8</u> <u>212</u><br>7.8 <u>214</u>  |
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Flow</u> ra<br><u>964</u><br><u>964</u><br><u>1059</u><br><u>1057</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $\frac{\text{pH}}{\text{at}} = \frac{\text{NTUs}}{100} \frac{\text{pH}}{100} \frac{\text{NTUs}}{100} \frac{100}{100} $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u>WL</u> <u>Removed</u><br>103.911<br>1021/m<br>1023 941<br>1023 941<br>1023 941<br>1024 00 | ~ 102/min<br>~102/min<br>~102/min                                   | 0.85<br>0.71<br>153.4<br>581<br>277<br>45.2                                                                                      |
| Remarks <u>Some</u> by<br><u>TIME</u> <u>Temp 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| <u>Conductivity</u><br><u>Conductivity</u><br>Water Measured<br>turted - Flow ra<br>964<br><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>WL</u> <u>Removed</u><br>103.991<br>1021/m<br>1021/m<br>102991<br>1024/00<br>1024/00      | ~ 104/m.<br>~104/m.<br>~1.04/m.<br>~1.04/m.<br>~1.04/m.             | 0.85 180 1<br>071 153.4<br>581 49.7                                                                                              |
| Remarks <u>Some</u> by<br><u>TIME</u> <u>Temp C</u><br><u>45</u><br><u>45</u><br><u>45</u><br><u>45</u><br><u>45</u><br><u>102</u> <u>1696</u><br><u>1708</u> <u>1696</u><br><u>1722</u> <u>686</u><br><u>1727</u> <u>1689</u><br><u>1732</u> <u>1681</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                                                                                                                                                                                                                                   | WL     Removed       103991                                                                  | ~ 104/m.<br>~104/m.<br>~1.04/m.<br>~1.04/m.<br>~1.04/m.<br>~1.04/m. | $\begin{array}{c} 0.8^{5} \\ 0.71 \\ 0.71 \\ 153.4^{\prime} \\ 581 \\ 2.27 \\ 15.2 \\ 0.70 \\ 1112 \\ 1.60 \\ 106.7 \end{array}$ |
| Remarks <u>Some</u> by<br><u>TIME</u> <u>Temp 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| Remarks <u>Some</u> by<br><u>TIME</u> <u>Temp •C</u><br><u>255</u><br><u>451</u> <u>depth</u> to<br><u>452</u> - <u>pumping</u> 5<br><u>1702</u> <u>1696</u><br><u>1708</u> <u>16.96</u><br><u>1722</u> <u>686</u><br><u>1727</u> <u>16.89</u><br><u>1732</u> <u>16.81</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Remarks <u>Some</u> by<br><u>TIME</u> <u>Temp C</u><br><u>15</u><br><u>15</u><br><u>102</u> <u>1696</u><br><u>1708</u> <u>1696</u><br><u>1722</u> <u>686</u><br><u>1727</u> <u>1681</u><br><u>1737</u> <u>1698</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Remarks <u>Some</u> by<br><u>TIME</u> <u>Temp °C</u><br><u>45</u><br><u>45</u><br><u>45</u><br><u>102</u> <u>1696</u><br><u>1708</u> <u>1696</u><br><u>1722</u> <u>686</u><br><u>1727</u> <u>1681</u><br><u>1737</u> <u>1698</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Time       Temp       C         45       Temp       C         40       Temp       C         102       16.96       17.12         1722       16.89       17.12         1727       16.89       17.32         1737       16.98         1738       Collected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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\mathbf{c} \underbrace$ | WL       Removed         103.91                                                              | ~ 104/m.<br>~104/m.<br>~1.04/m.<br>~1.04/m.<br>~1.04/m.<br>~1.04/m. | $\begin{array}{c} 0.8^{5} \\ 0.71 \\ 0.71 \\ 153.4^{\prime} \\ 581 \\ 2.27 \\ 15.2 \\ 0.70 \\ 1112 \\ 1.60 \\ 106.7 \end{array}$ |

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|                                                                                                                                                                                                                                  | cial Projects Corp.                                                                                                                                                            |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                  | Page             | <u>  of  </u>                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                  |                                                                                                                                                                                | NITORING V                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                  |                  |                                                                                                                                                                           |
| Project Number                                                                                                                                                                                                                   |                                                                                                                                                                                | Project Name                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                  | Date<br>CM-J     | 20-0 <sub>0</sub>                                                                                                                                                         |
| Monitor Well Numbe<br>ALE-R-I                                                                                                                                                                                                    | τ                                                                                                                                                                              | Field Invest                                                                                                                                                                                                                           | igator(s)                                                                                                                                                                                                                                                                                                                                        |                  | ······································                                                                                                                                    |
| VELL DATA<br>INITIAL DEPTH <u>-1044</u><br>Total Depth <u>161-17</u><br>Vell Diameter                                                                                                                                            | 03 (From grand ton<br>11 (intermaliate sure                                                                                                                                    | Water C                                                                                                                                                                                                                                | olumn Height                                                                                                                                                                                                                                                                                                                                     |                  |                                                                                                                                                                           |
| 1ETHOD OF WELL DEV                                                                                                                                                                                                               | Air Lift<br>Bailing                                                                                                                                                            |                                                                                                                                                                                                                                        | APH IDENTIFICATIO                                                                                                                                                                                                                                                                                                                                |                  |                                                                                                                                                                           |
| WATER SAMPLING DAT<br>Method of Water Re                                                                                                                                                                                         | M Micro-Pur<br>moval <u>pumping</u>                                                                                                                                            | nging                                                                                                                                                                                                                                  | Was Well Pumpe                                                                                                                                                                                                                                                                                                                                   | ed Dry7 Ye       | s (No                                                                                                                                                                     |
| 3 Well Volumes                                                                                                                                                                                                                   | NA gals                                                                                                                                                                        | Amount of                                                                                                                                                                                                                              | of Water Removed f                                                                                                                                                                                                                                                                                                                               | rom Well/        | VAgals                                                                                                                                                                    |
| Water Temp•<br>Physical Appearanc                                                                                                                                                                                                | -                                                                                                                                                                              |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                  | 131510           |                                                                                                                                                                           |
| lemarks                                                                                                                                                                                                                          |                                                                                                                                                                                | ·····                                                                                                                                                                                                                                  | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                            |                  |                                                                                                                                                                           |
| TIME Temp •C                                                                                                                                                                                                                     | Conductivity                                                                                                                                                                   | <u>pH NTUS</u><br>mensuard as                                                                                                                                                                                                          | <u>WL Removed</u>                                                                                                                                                                                                                                                                                                                                | <u>Flow Rate</u> | DO ORP                                                                                                                                                                    |
| IME Temp ·C<br>25 Julie diroth to unt                                                                                                                                                                                            | <u>Conductivity</u><br>(From ground level)                                                                                                                                     | mesund as                                                                                                                                                                                                                              | 104.05                                                                                                                                                                                                                                                                                                                                           | Flow Rate        | <u>Do</u> <u>or</u> P                                                                                                                                                     |
| IME TORD °C<br>25<br>Alter dripth townt<br>530 pumping Star<br>541 Har24                                                                                                                                                         | <u>Conductivity</u><br>(from ground level)<br>1. <u>t.d flow rute</u><br><u>830</u>                                                                                            | <u>mensured as</u><br><u>ucljushed to 10</u><br>(6.84 <u>31.3</u>                                                                                                                                                                      | 1 <u>04</u> .03<br>>4 <u>16 ~</u><br>1 <u>04</u> .03                                                                                                                                                                                                                                                                                             |                  | 287 1351                                                                                                                                                                  |
| IME Temp °C<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>27<br>16<br>24<br>25<br>27<br>16<br>24<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25                                                          | <u>Conductivity</u><br>(From ground level)<br>1/t-J - flow rute<br><u>830</u><br>718                                                                                           | <u>mensured as</u><br><u>ucljushed to 10</u><br>(e.84 <u>31.3</u><br>(e.92 10.7                                                                                                                                                        | 104.03<br>104.03<br>104.03<br>104.03                                                                                                                                                                                                                                                                                                             | 1.0400           | <u>287</u> 1351<br>446171.2                                                                                                                                               |
| <u>IME</u> <u>Temp °C</u><br>25<br><u>Altin</u> <u>dispth</u> to unit<br>530 <u>pumping</u> Shu<br>541 <u>11024</u><br>556 <u>17.11</u><br>603 <u>17.12</u>                                                                      | <u>Conductivity</u><br>(From ground level)<br>1/t-J - Flow rute<br><u>830</u><br>718<br><u>748</u>                                                                             | <u>mensured as</u><br><u>ucljushed to</u><br><u>(c.84</u> <u>31.3</u><br><u>692</u> <u>10.7</u><br><u>694</u> <u>72</u>                                                                                                                | 104.03<br>104.03<br>104.03<br>104.03<br>104.03                                                                                                                                                                                                                                                                                                   |                  | <u>2 87</u> 135 l<br><b>4:46</b> 171.2<br>3 99 145 1                                                                                                                      |
| <u>IME</u> <u>Temp °C</u><br><u>25</u><br><u>9</u> :1:1:1 <u>dripth to</u> unt<br><u>530</u> <u>pumping</u> 5m<br><u>541</u> <u>1(224</u><br><u>556</u> <u>17.11</u><br><u>608</u> <u>17.06</u>                                  | <u>Conductivity</u><br>(From ground level)<br>1/t-J - flow rute<br><u>830</u><br>718<br><u>748</u><br>728                                                                      | <u>mensurad as</u><br><u>ucljushed to</u><br><u>6.84</u> <u>31.3</u><br><u>692</u> <u>10.7</u><br><u>6.98</u> <u>9.6</u>                                                                                                               | 104.03<br>104.03<br>104.03<br>104.03<br>104.03<br>104.03<br>104.03                                                                                                                                                                                                                                                                               | 1.0400           | <u>287</u> <u>1351</u><br><u>4:46</u> <u>171.2</u><br><u>399</u> <u>1451</u><br><u>4:44</u> <u>126.0</u>                                                                  |
| IME     Iemp     C       25     11     10     10       25     11     10     10       530     pumping     54       541     11     24       556     17.11       603     17.12       608     17.06       1617     17.07             | <u>Conductivity</u><br>(From ground level)<br>1.t.d - flow rute<br><u>830</u><br>718<br><u>748</u><br><u>728</u><br><u>721</u>                                                 | <u>mensured as</u><br><u>ucl</u> whet to be<br><u>(c.84</u> <u>31.3</u><br><u>692</u> <u>10.7</u><br><u>694</u> <u>71</u><br><u>6.98</u> <u>9.6</u><br><u>6.99</u> <u>8.4</u>                                                          | 104.03<br>104.03<br>104.03<br>104.03<br>104.03<br>104.03<br>104.01<br>104.01                                                                                                                                                                                                                                                                     | 1.0400           | <u>287</u> <u>1351</u><br><u>4.46</u> <u>171.2</u><br><u>319</u> <u>1451</u><br><u>4.44</u> <u>126.0</u><br>4.35 <u>106.3</u>                                             |
| IME Tepp C<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25                                                                                                                                                           | <u>Conductivity</u><br>(From ground level)<br>1. <u>t.J Flav rute</u><br><u>830</u><br>718<br><u>748</u><br><u>728</u><br><u>721</u><br><u>725</u>                             | <u>mensurad as</u><br><u>ucl</u> <u>when to 10</u><br>(c. <u>84</u> <u>31.3</u><br><u>692</u> <u>10.7</u><br><u>694</u> <u>71</u><br><u>698</u> <u>9.6</u><br><u>698</u> <u>9.6</u><br><u>699</u> <u>8.4</u><br><u>7.00</u> <u>7.2</u> | 104.03<br>104.03<br>104.03<br>104.03<br>104.03<br>104.03<br>104.03                                                                                                                                                                                                                                                                               | 1.0400           | <u>287</u> <u>135</u> 1<br><u>4.46</u> <u>171.2</u><br><u>399</u> <u>145</u> <u>1</u><br><u>4.44</u> <u>126.0</u><br><u>4.35</u> <u>106.3</u><br><u>4.36</u> <u>100.9</u> |
| IME     Iepp •C       13     11     1       14     1     1       530     pumping 5h       541     1       556     17.11       1603     17.12       1608     17.06       1617     17.07       1624     17.15       1624     17.29 | $\frac{\text{Conductivity}}{(from ground level)}$ $\frac{(from ground level)}{(from ground level)}$ $\frac{7.30}{718}$ $\frac{748}{728}$ $\frac{728}{725}$ $\frac{7.56}{7.56}$ | <u>mensurad as</u><br><u>ucljushed to</u><br><u>(c.84 31.3</u><br><u>692 10.7</u><br><u>694 71</u><br><u>6.98 9.6</u><br><u>6.98 9.6</u><br><u>6.99 8.4</u><br><u>7.00 7.2</u><br><u>6.85 5.8</u>                                      | 104.03         104.03         104.03         104.03         104.03         104.03         104.03         104.03         104.01         104.01         104.01         104.01                                                                                                                                                                      | 1040<br>1040     | <u>287</u> <u>1351</u><br><u>4.46</u> <u>171.2</u><br><u>319</u> <u>1451</u><br><u>4.44</u> <u>126.0</u><br>4.35 <u>106.3</u>                                             |
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| <u>may be</u><br>T <u>IME</u> I<br>0900 I<br>1910 P<br>A38<br>1947 /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <u>may be</u><br>TIME I<br>1900 I<br>1910 P<br>138<br>1947 <u>1</u><br>1947 <u>1</u><br>1957                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>PH</u> <u>NTU</u><br><u>1</u><br><u>1</u><br><u>1</u><br><u>1</u><br><u>1</u><br><u>1</u><br><u>1</u><br><u>1</u>  | HL         Removed           84.00                                             | <u>Flow Rate</u><br>-////////<br>~/.04/m.~<br>~1.04/m.^                                                                              | $     \underline{DO}  \underline{ORP} \\     \underline{552}  \frac{1774}{1/3.5} $                                              |
| <u>may be</u><br>TIME I<br>0900 <u>I</u><br>1910 P<br>A38<br>1947 <u>1</u><br>0957 <u>1</u><br>1003 <u>1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <u>may be</u><br>TIME I<br>0900 I<br>1910 P<br>A38<br>9947 1<br>003 1<br>1003 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 5<br><u>Conductivity</u><br><u>M. to with Meisur</u><br><u>Ad- Flow cita</u><br><u>691</u><br><u>624</u><br><u>614</u><br><u>623</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                 | HL       Removed         84.00                                                 | Flow Rate<br>~/ 04/Ar.~<br>~1.04/Ar.~<br>~1.04/Ar.~<br>~1.04/Ar.~<br>~1.04/Ar.~<br>~1.04/Ar.~<br>~1.04/Ar.~                          | $\begin{array}{c c} DO & ORP \\ \hline 552 & 1774 \\ \hline 593 & 113.5 \\ \hline 624 & 993 \\ \hline 6.33 & 102.0 \end{array}$ |
| <u>may be</u><br>TIME I<br><u>0900 I</u><br><u>1910 P</u><br><u>1910 P</u><br><u>1938 J</u><br><u>1947 J</u><br><u>1957 J</u><br><u>1003 J</u><br><u>1013 J</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u>Ential</u> dep<br><u>Ential</u> dep<br><u>Pumpin</u> Ste<br><u>No 73</u><br><u>16.61</u><br><u>16.54</u><br><u>16.37</u>                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                 | HL       Removed         84.00                                                 | Flow Rate<br>-/ cc/A<br>2/.04/M·n<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m | DO ORP<br>552 1774<br>593 113.5<br>6.24 993<br>6.33 102.0<br>6.34 930                                                           |
| may be<br>TIME I<br>0900 I<br>1910 P<br>1938<br>1947 /<br>1957 I<br>1003 I<br>1003 I<br>1013 I<br>1013 I<br>1020 I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | $\frac{\text{Conductivity}}{\text{M} + 0}  \text{w.top measure}$ $\frac{4 - 1}{691}$ $\frac{691}{650}$ $\frac{624}{614}$ $\frac{614}{623}$ $\frac{621}{621}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                 | HL       Removed         84.00                                                 | Flow Rate<br>~/ 04/Ar.~<br>~1.04/Ar.~<br>~1.04/Ar.~<br>~1.04/Ar.~<br>~1.04/Ar.~<br>~1.04/Ar.~<br>~1.04/Ar.~                          | DO ORP<br>552 1774<br>593 113.5<br>6.24 993<br>6.33 102.0<br>6.34 930<br>6.28 87.0                                              |
| <u>may be</u><br><u>TIME</u> I<br><u>0900</u> <u>T</u><br><u>1910</u> <u>P</u><br><u>1938</u><br><u>9957</u><br><u>1003</u> <u>1</u><br><u>1013</u> <u>1</u><br><u>1013</u> <u>1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                 | HL       Removed         84.00                                                 | Flow Rate<br>-/ cc/A<br>2/.04/Min<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m            | DO ORP<br>552 1774<br>593 113.5<br>6.24 993<br>6.33 102.0<br>6.34 930<br>6.28 87.0                                              |
| May be<br>TIME I<br>0900 I<br>1910 P<br>1910 P<br>1938<br>1947 1<br>1957<br>1003 I<br>1003 I<br>1013 I<br>1013 I<br>1020 I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                 | HL       Removed         84.00                                                 | Flow Rate<br>-/ cc/A<br>2/.04/Min<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m            | DO ORP<br>552 1774<br>593 113.5<br>6.24 993<br>6.33 102.0<br>6.34 930<br>6.28 87.0                                              |
| <u>may be</u><br>TIME I<br>0900 <u>I</u><br>910 P<br>938<br>947 <u>/</u><br>0957<br>1003 <u>/</u><br>1013 <u>/</u><br>1014 <u>/</u><br>1015 <u>/</u><br>1 | <u>Inregular</u><br><u>Ential</u> def<br><u>Ential</u> def<br><u>Pumpin</u> Ste<br><u>No. 73</u><br><u>16.61</u><br><u>16.57</u><br><u>16.87</u><br><u>16.82</u><br><u>16.82</u><br><u>16.71</u><br><u>Cullented</u> 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\frac{\text{Conductivity}}{\text{Conductivity}}$ $\frac{\text{Conductivity}}{\text{M}_{1} \oplus \dots \oplus \text{M}_{1} \oplus \dots \oplus \dots \oplus \text{M}_{1} \oplus \dots \oplus \text{M}_{1} \oplus \dots \oplus \text{M}_{1} \oplus \dots \oplus $ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                 | HL       Removed         84.00                                                 | Flow Rate<br>-/ cc/A<br>2/.04/Min<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m<br>~1.04/m            | DO ORP<br>552 1774<br>593 113.5<br>6.24 993<br>6.33 102.0<br>6.34 930<br>6.28 87.0                                              |

| Black & Veatch Special Proje                                                                                                                                             | MONITORING \                         | WELL                                                                       | raye                                             | \ of \ |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------|--------|
| C                                                                                                                                                                        | EVELOPMENT/PUR                       |                                                                            |                                                  |        |
| Project Number<br>46(18                                                                                                                                                  | Project Nam<br>Arce 5                |                                                                            | Date                                             | -19-00 |
| Monitor Well Number<br>EX-2-5                                                                                                                                            | Field Inves<br>G. Felk               | tigator(s)                                                                 |                                                  |        |
| WELL DATA<br>INITIAL DEPTH<br>Total Depth<br>Well Diameter<br>METHOD OF WELL DEVELOPMEN<br>Pumping Air<br>Surging Bail<br>WATER SAMPLING DATA<br>Method of Water Removal | (x)(he)<br>T PHOTOGI<br>Lift<br>ing  | ight) x=.163 gal/<br>x = 1.469 94/<br>RAPH IDENTIFICATIO<br>Was Well Pumpe | ft <b>( 2°, x-</b> .6<br>(4 <i>O</i> 6"<br>N NO. | es No  |
| 3 Well Volumes <u>~ 70</u><br>FINAL FIELD ANALYSIS<br>Water Temp°C Spe<br>Physical Appearance<br>Remarks                                                                 | cific Conductance                    | micromhos pH                                                               | Turbid                                           |        |
| FINAL FIELD ANALYSIS<br>Water Temp°C Spe<br>Physical Appearance<br>Remarks                                                                                               | tivity DH NTUS<br>7.3 0.5<br>7.3 0.5 | micromhos pH                                                               | <u>Flow Rate</u>                                 |        |

| •                                                                                                |                                                   | Page of                                                  |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|
|                                                                                                  | ONITORING, WELL                                   |                                                          |
| DEVELO                                                                                           | PMENT(PURGING DATA                                |                                                          |
| Project Number<br>46119                                                                          | Project Name<br>Are Services                      | Date<br>9-19-00 -                                        |
| Monitor Well Number<br><u> FX-2-I</u>                                                            | Field Investigator(s)<br>G. Felkna                | ларияника.<br>                                           |
| WELL DATA<br>INITIAL DEPTH 110,89'<br>Total Depth 195'<br>Well Diameter 8''                      | <u> </u>                                          | /ft @ 2°, x=.653 gal/ft @ 4° ]<br>B"= 2.6" gal/ft @ 4° ] |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing                                | PHOTOGRAPH IDENTIFICATI                           |                                                          |
| WATER SAMPLING DATA                                                                              | al pump at screen iste                            | oed Dry? Yes No                                          |
| 3 Well Volumes <u>666</u> gal                                                                    |                                                   |                                                          |
| FINAL FIELD ANALYSIS<br>Water Temp°C Specific Co                                                 | onductancemicromhos pH                            | Turbidity                                                |
| Physical Appearance Greenith                                                                     | Tint                                              |                                                          |
| Remarks                                                                                          |                                                   |                                                          |
|                                                                                                  |                                                   | <u>г.                                    </u>            |
|                                                                                                  |                                                   |                                                          |
| TIME Temp *C Conductivity                                                                        | <u>ph NTUs WL Removed</u>                         | Flow Rate DO ORP                                         |
| <u>TIME Temp °C</u> <u>Conductivity</u><br>0845 <u>I_itial</u>                                   | ph NTUs WL Removed                                |                                                          |
| 0845 <u>Initial</u><br>0920 Start pumping                                                        | 110 <u>.8</u> 1′                                  | 13 gpm 62+ 220                                           |
| 0845 <u>I_itial</u><br>0920 <u>Start purping</u><br>0925 <u>15,1 547</u>                         | 110 <u>.8</u> 1′                                  | $\frac{13 \text{ gpm}}{(.2)} = \frac{621}{220}$          |
| 0845 <u>I_itial</u><br>0920 <u>Start purping</u><br>0925 <u>15,1 547</u><br>0931 <u>15,1 561</u> | 110 <u>.8</u> 1′                                  | $\frac{13 \text{ gpm}}{621}  \frac{621}{220}$            |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                             | 110 <u>.8</u> 1′                                  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                             | 110 <u>.8</u> 1′                                  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                            | 110 <u>.8</u> 1′                                  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                            | 110 <u>.8</u> 1′                                  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                            | 1 <u>0.8</u> 1'<br>1 <u>1</u> <u>0</u> , <u>3</u> | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                             | 110 <u>.8</u> 1′                                  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                            |                                                   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Physics<br>Remarks<br>TIME<br>1640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Physica<br>Remarks<br>911ME<br>1640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Physica<br>Remarks<br>91142<br>1640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Physica<br>Remarks<br>91142<br>1640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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C$<br>$T_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$<br>$S_{-1}$ | $     \begin{array}{r} \text{Conductivity} \\                                    $                                                                                                                                                                                                                                                                                                     | <b>N</b> - <u>15</u> <b>2</b><br>7.7 <b>.</b><br>7.7.7<br>7.7.7<br>7.7.7<br>7.7        | NTUR WL<br>111.54 | Removed     | 12.8 gpm       |                       |
| Physica<br>Romarka<br>911HE<br>1640<br>1654<br>1705<br>1705<br>1705<br>1706<br>1712<br>1716<br>1712<br>1716<br>1712<br>1716<br>1722<br>1737<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740<br>1740 | 2 Appearance<br>C<br>2 and $C$<br>1 - 1 - 1<br>5 - 1 - 1<br>1 - 1 - 1<br>2 - 1 - 1                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>Conductivity</u><br><u>527</u><br><u>527</u><br><u>550</u><br><u>550</u><br><u>556</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>558</u><br><u>557</u><br><u>1745</u><br>ic curbidity u | <b>N</b> - <u>15</u> <b>2</b><br>7.7 <b>.</b><br>7.7.7<br>7.7.7<br>7.7.7<br>7.7        | NTUR WL<br>111.54 |             | 12.8 gpm<br>   |                       |

| Black & Veatch Special Projects Corp.                                           |                                                                   | Page \ of                             |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|
|                                                                                 | DNITORING WELL                                                    |                                       |
| DEVELO                                                                          | PMENT/PURGING DATA                                                |                                       |
| Project Number                                                                  | Project Name                                                      | Date                                  |
| Monitor Well Number                                                             | Ace Sourcea<br>Field Investigator(s)                              | 09-21-00                              |
| 0B-1-5                                                                          | Kyk Madda                                                         |                                       |
| WELL DATA                                                                       | Veter Column Height                                               |                                       |
| Total Depth                                                                     | Water Column Height<br>Well Volume (gals)                         | T                                     |
| WELL DATA<br>INITIAL DEPTH 1/2 08'<br>Total Depth 30'<br>Well Diameter 4'       | (x)(height) x=.163 gal/f                                          | t @ 2°, x=.653 g#1/ft @ 4°            |
| METHOD OF WELL DEVELOPMENT                                                      | PHOTOGRAPH IDENTIFICATION                                         | т                                     |
| Pumping Air Lift                                                                |                                                                   |                                       |
| Surging Bailing                                                                 |                                                                   | T                                     |
| WATER SAMPLING DATA Micro<br>Method of Water Removal                            | - l'unging Was Well Pumped                                        | Dry? Yes No                           |
| 3 Well Volumes NA gal                                                           |                                                                   |                                       |
| FINAL FIELD ANALYSIS                                                            |                                                                   | · · · · · · · · · · · · · · · · · · · |
| Water Temp C Specific Co                                                        | nductancemicromhos pH                                             | Turbidity                             |
| Physical Appearance                                                             |                                                                   |                                       |
|                                                                                 |                                                                   |                                       |
| Remarks                                                                         |                                                                   |                                       |
|                                                                                 |                                                                   |                                       |
| TIME Temp °C Conductivity                                                       | <u>pH NTUs WL Removed</u>                                         | Flow Rate DO ORP                      |
| 1240 initial dept to water measure men                                          |                                                                   |                                       |
| 1300 Sturted pumping - Flow r                                                   | ute adjusted to ~ 1.04/mm                                         | 104/1-1                               |
| 13 18.15 883                                                                    | 7.01 25,9 11215                                                   | 5.80 125.6                            |
| 1323 2025 916                                                                   | 7.11 29.2 112.02                                                  |                                       |
| 1328 19.80 912<br>1336 19.84 901                                                | 7.05 285 11202                                                    | 5,59 737                              |
| 336 1984 901                                                                    | 7.06 26.9 1402                                                    | 5.49 62.9                             |
| 1342 1984 904                                                                   | 7.02 24.3 112.02                                                  | 5.63 62.1                             |
| 248 20.19 908                                                                   | 7.06 26.9 1002 7.02 24.3 112.02 7.01 21.8 112.02 7.07 19.6 112.02 | 547 69.5                              |
| 1342 1984 904<br>348 2019 908<br>1352 2037 916<br>1355 Collected CC-TURI Sample | 7_07 196 112.02                                                   | 559 63.7                              |
| 1355 <u>Collected</u> <u>CC-TUHI Sampin</u>                                     | · _ W-OB-1-5-092100-P                                             |                                       |
|                                                                                 | ······································                            |                                       |
|                                                                                 |                                                                   |                                       |
| NTU - Nephelometric turbidity uni<br>WL - Water level                           | ts                                                                |                                       |
| Checked By 25                                                                   |                                                                   | Date 9-26-00                          |

| Black & Veatch Special Projects Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | rp.                                                                                                                                                  | Page l of                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NONITORING WELL<br>OPMENT/PURGING DA                                                                                                                 | TA                                                                                                                                                                                                                                                     |
| Project Number<br>46118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Project Name<br>Are Spruces                                                                                                                          | Date<br>09-21-00                                                                                                                                                                                                                                       |
| Monitor Well Number<br>ØB-1-I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Field Investigator(s)<br>Kyle Madden                                                                                                                 |                                                                                                                                                                                                                                                        |
| WELL DATA<br>INITIAL DEPTH 11217<br>Total Depth <u>A5'</u><br>Well Diameter <u>4"</u><br>METHOD OF WELL DEVELOPMENT<br><u>Y</u> Pumping Air Lift                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Water Column Hei<br>Well Volume (gal<br>(x)(height) x=.<br>PHOTOGRAPH IDENT                                                                          | ght<br>s)<br>163 gal/ft @ 2°, x=.653 gal                                                                                                                                                                                                               |
| Surging Bailing<br>WATER SAMPLING DATA Micro<br>Method of Water Removal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -Punging<br>Ping Was We                                                                                                                              | 11 Pumped Dry? Yes (                                                                                                                                                                                                                                   |
| 3 Well Volumes NA g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                      |                                                                                                                                                                                                                                                        |
| Physical Appearance <u>greenish</u><br>Remarks <u>freenish</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                      |                                                                                                                                                                                                                                                        |
| Remarks <u>Accenish</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>dh nius wl r</u>                                                                                                                                  | emoved Flow Rate DO                                                                                                                                                                                                                                    |
| Remarks <u>Arcenish</u><br><u>GIME Temp C Conductivity</u><br><u>112</u> - <u>Mecsural initial depth t</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>рн NTUE UL R</u><br>го цере <u>из</u> 1 <u>12</u> 17 _                                                                                            | emoved Flow Rate DO                                                                                                                                                                                                                                    |
| Remarks <u>Arcenish</u><br><u>GIME Temp C Conductivity</u><br><u>112 - Mecsured initial depth t</u><br><u>120 - Started Pinging - Floor</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DH NTUE ML R<br>TO Well us 11217 _<br>adjusted to 1000-                                                                                              |                                                                                                                                                                                                                                                        |
| Remarks <u>Arcenish</u><br><u> <u> <u> <u> <u> </u> <u> <u> </u> <u> <u> </u> <u> </u> <u> <u> </u> <u> </u></u></u></u></u></u></u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>рн NTUE UL R</u><br>го цере <u>из</u> 1 <u>12</u> 17 _                                                                                            | emoved Flow Rate DO                                                                                                                                                                                                                                    |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>PH NIVE VI R</u><br>10 1217 <u>0</u><br>1217 <u>1217</u><br>1217 <u>1217</u><br>1217 <u>1225</u><br>7.38 <u>8.7</u> 1224<br>7.36 <u>7.7</u> 11224 | <u>moved</u> <u>Flow Rate</u> <u>DO</u><br>                                                                                                                                                                                                            |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                | <u>emoved</u> <u>Flow Rate</u> <u>DO</u><br><u>10(/mn</u><br><u>1.0 (/mn</u> <u>5.44</u><br><u>1.0 (/mn</u> <u>5.44</u><br><u>1.0 (/mn</u> <u>5.78</u><br><u>1.0 (/mn</u> <u>5.65</u><br><u>6.11</u>                                                   |
| Remarks <u>Accenish</u><br><u>Grime Temp C Conductivity</u><br><u>112 - Mecsurel initial depth 1</u><br><u>120 - Started Prop Flaw</u><br><u>131 1741 632</u><br><u>131 1741 632</u><br><u>131 1741 632</u><br><u>131 1741 632</u><br><u>131 1741 632</u><br><u>134 17.79 636</u><br><u>1451 17.96 639</u><br><u>1459 18.52 647</u><br><u>1206 1852 648</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                | <u>Emoved</u> <u>Flow Rate</u> <u>Do</u><br><u>10(/mm</u><br><u>1.0 (/mm</u><br><u>1.0 (/mm</u> )<br><u>5.44</u><br><u>1.0 (/mm</u> )<br><u>5.44</u><br><u>1.0 (/mm</u> )<br><u>5.65</u><br><u>6.11</u><br><u>1.0 (/mm</u> )<br><u>5.92</u>            |
| Remarks $q_{cenish}$ Gradient       Conductivity         112 $(12)^{-1}$ 112 $(12)^{-1}$ 120 $-5taded$ 120 $-5taded$ 120 $-5taded$ 121 $(1741)^{-1}$ 121 $(1741)^{-1}$ 121 $(1741)^{-1}$ 121 $(1741)^{-1}$ 1231 $(1741)^{-1}$ 124 $(1796)^{-1}$ 1251 $(17.96)^{-1}$ 126 $(18.52)^{-1}$ 1206 $(18.52)^{-1}$ 1212 $(18.46)^{-1}$ 1212 $(18.46)^{-1}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                | <u>Emoved</u> <u>Flow Rate</u> <u>Do</u><br><u>10(/mm</u><br><u>1.0 (/mm</u><br><u>1.0 (/mm</u><br><u>5.44</u><br><u>1.0 (/mm</u><br><u>5.65</u><br><u>1.0 (/mm</u><br><u>5.65</u><br><u>1.0 (/mm</u><br><u>5.92</u><br><u>1.0 (/mm</u><br><u>5.83</u> |
| Remarks       90000000         Conductivity         112       - Measured initial depth         112       - Measured initial depth         112       - Measured initial depth         120       - Staded Prop.         - Staded Prop.       - FLaded         1/31       1741       632         1/31       1741       632         1/31       1741       632         1/131       17.79       636         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       632         1/120       1852       647         1/206       1852       648         1/212       1846       652         1/217       1843       152 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                | <u>Emoved</u> <u>Flow Rate</u> <u>Do</u><br><u>10(/mm</u><br><u>1.0 (/mm</u><br><u>1.0 (/mm</u> )<br><u>5.44</u><br><u>1.0 (/mm</u> )<br><u>5.44</u><br><u>1.0 (/mm</u> )<br><u>5.65</u><br><u>6.11</u><br><u>1.0 (/mm</u> )<br><u>5.92</u>            |
| Remarks       90000000         Conductivity         112       - Measured initial depth         112       - Measured initial depth         112       - Measured initial depth         120       - Staded Prop.         - Staded Prop.       - FLaded         1/31       1741       632         1/31       1741       632         1/31       1741       632         1/131       17.79       636         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       632         1/120       1852       647         1/206       1852       648         1/212       1846       652         1/217       1843       152 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                | <u>Emoved</u> <u>Flow Rate</u> <u>Do</u><br><u>10(/mm</u><br><u>1.0 (/mm</u><br><u>1.0 (/mm</u><br><u>5.44</u><br><u>1.0 (/mm</u><br><u>5.65</u><br><u>1.0 (/mm</u><br><u>5.65</u><br><u>1.0 (/mm</u><br><u>5.92</u><br><u>1.0 (/mm</u><br><u>5.83</u> |
| Remarks       90000000         Conductivity         112       - Measured initial depth         112       - Measured initial depth         112       - Measured initial depth         120       - Staded Prop.         - Staded Prop.       - FLaded         1/31       1741       632         1/31       1741       632         1/31       1741       632         1/131       17.79       636         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       632         1/120       1852       647         1/206       1852       648         1/212       1846       652         1/217       1843       152 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                | <u>Emoved</u> <u>Flow Rate</u> <u>Do</u><br><u>10(/mm</u><br><u>1.0 (/mm</u><br><u>1.0 (/mm</u><br><u>5.44</u><br><u>1.0 (/mm</u><br><u>5.65</u><br><u>1.0 (/mm</u><br><u>5.65</u><br><u>1.0 (/mm</u><br><u>5.92</u><br><u>1.0 (/mm</u><br><u>5.83</u> |
| Remarks       90000000         Conductivity         112       - Measured initial depth         112       - Measured initial depth         112       - Measured initial depth         120       - Staded Prop.         - Staded Prop.       - FLaded         1/31       1741       632         1/31       1741       632         1/31       1741       632         1/131       17.79       636         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       639         1/15/       17.96       632         1/120       1852       647         1/206       1852       648         1/212       1846       652         1/217       1843       152 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                | <u>Emoved</u> <u>Flow Rate</u> <u>Do</u><br><u>10(/mm</u><br><u>1.0 (/mm</u><br><u>1.0 (/mm</u><br><u>5.44</u><br><u>1.0 (/mm</u><br><u>5.65</u><br><u>1.0 (/mm</u><br><u>5.65</u><br><u>1.0 (/mm</u><br><u>5.92</u><br><u>1.0 (/mm</u><br><u>5.83</u> |

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                                                                                                                                                                                                                                                                                                          | 113.22'<br>235'<br>4''                                                                                    |                                                                          | Water C<br>Well Vo<br>(x)(hei          | olumn Height<br>lume (gals)<br>ght) x=.163 gal/ | 122'<br>- 80L<br>ft 8 2°, x6 | 553 gal/ft @ 4*                                                                                                          |
| P1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| WATER SA<br>Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Vater To<br>Physical<br>Remarks<br><u>TIME</u><br><u>JLOQ</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Vater To<br>Physical<br>Remarks<br><u>TIME</u><br><u>JLOQ</u><br><u>[6 K6</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                          | <u>Conductivity</u><br><u>W.L.</u><br>P <u>Ung</u> ing<br><u>429</u>                                      | <u>pH</u>                                                                | <u>NTUs</u>                            | WL Removed                                      |                              | <u>Do orp</u><br>                                                                                                        |
| Vater To<br>Physical<br>Remarks<br>TIME<br>JLOD<br><u>/635</u><br>/635                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                          | <u>Conductivity</u><br><u>W.L.</u><br>P <u>UMP</u> ing<br><u>429</u><br><u>431</u>                        | <u>pH</u>                                                                | <u>NTUs</u>                            | WL Removed                                      | Flow Rate                    | <u>Do</u> <u>ORP</u><br><u>7.2</u> <u>228</u><br>7.1 <u>228</u>                                                          |
| Water To<br>Physical<br>Remarks<br><u>FIME</u><br><u>JLOD</u><br><u>1600</u><br><u>1630</u><br><u>1636</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                          | Conductivity<br><u>W.L.</u><br><u>V.L.</u><br><u>429</u><br><u>433</u>                                    | <u>рн</u><br>—<br>7 <u>,4</u> 6<br>7,45<br>7,45                          |                                        | WL Removed                                      | Flow Rate                    | <u>Do</u> <u>ORP</u><br><u>7.2</u> <u>228</u><br><u>7.1</u> <u>228</u><br><u>7.0</u> <u>227</u>                          |
| Vater To<br>Physical<br>Remarks<br>GTIME<br>JLOQ<br>1600<br>1633<br>1636<br>1636                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $\frac{Temp - C}{T_{-}, 1, 1}$ $\frac{15.5}{15.5}$ $\frac{15.5}{15.5}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\frac{Conductivity}{W.L.}$ $\frac{W.L.}{429}$ $\frac{429}{131}$ $\frac{433}{435}$                        | <u>рн</u><br><br>7 <u>,4</u> 6<br>7,45<br>7,45<br>7,45<br>7,45           | NTU:<br>O<br>O<br>O<br>O               | WL Removed                                      | Flow Rate                    | <u>Do</u> <u>ORP</u><br><u>7.2</u> <u>228</u><br><u>7.1</u> <u>228</u><br><u>7.0</u> <u>227</u><br><u>7.0</u> <u>227</u> |
| Water To<br>Physical<br>Remarks<br>TIME<br>1600<br>1650<br>1635<br>1636<br>1636<br>1637<br>1642                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\frac{1}{1} \text{ Appearance}{} 1  $ | $\frac{Conductivity}{W.L}$ $\frac{W.L}{429}$ $\frac{429}{131}$ $\frac{433}{435}$ $\frac{436}{436}$        | <b>DH</b><br>7:46<br>7:45<br>7:45<br>7:45<br>7:44<br>7:44                | NTU:<br>0<br>0<br>0<br>0<br>1.6        | WL Removed                                      | Flow Rate                    | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                    |
| Vater To<br>Physical<br>Remarks<br><b>FIME</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b>JLOD</b><br><b></b> | $\frac{1}{1} \text{ Appearance}{} 1  $ | $\frac{\text{Conductivity}}{W.L}$ $\frac{W.L}{429}$ $\frac{429}{433}$ $\frac{435}{436}$ $\frac{436}{436}$ | <b><u>PH</u></b><br>7,46<br>7,45<br>7,45<br>7,45<br>7,44<br>7,44<br>7,44 | NTU:<br>0<br>0<br>0<br>0<br>1.6<br>1,4 | <u>WL</u> <u>Removed</u><br>13.22'              | Flow Rate                    | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                    |
| Water To<br>Physical<br>Remarks<br>TIME<br>1600<br>1650<br>1635<br>1636<br>1636<br>1637<br>1642                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\frac{1}{1} \text{ Appearance}{} 1  $ | $\frac{Conductivity}{W.L}$ $\frac{W.L}{429}$ $\frac{429}{131}$ $\frac{433}{435}$ $\frac{436}{436}$        | <b>DH</b><br>7:46<br>7:45<br>7:45<br>7:45<br>7:44<br>7:44                | NTU:<br>0<br>0<br>0<br>0<br>1.6        | WL Removed                                      | Flow Rate                    | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                    |
| Vater To<br>Physica:<br>Remarks<br>TIME<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\frac{1}{1} \text{ Appearance}{} 1  $ | $\frac{\text{Conductivity}}{W.L}$ $\frac{W.L}{429}$ $\frac{429}{433}$ $\frac{435}{436}$ $\frac{436}{436}$ | <b><u>PH</u></b><br>7,46<br>7,45<br>7,45<br>7,45<br>7,44<br>7,44<br>7,44 | NTU:<br>0<br>0<br>0<br>0<br>1.6<br>1,4 | <u>WL</u> <u>Removed</u><br>13.22'              | Flow Rate                    | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                    |
| Vater To<br>Physica:<br>Remarks<br>TIME<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>ILOD<br>I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\frac{1}{1} \text{ Appearance}{} 1  $ | $\frac{\text{Conductivity}}{W.L}$ $\frac{W.L}{429}$ $\frac{429}{433}$ $\frac{435}{436}$ $\frac{436}{436}$ | <b><u>PH</u></b><br>7,46<br>7,45<br>7,45<br>7,45<br>7,44<br>7,44<br>7,44 | NTU:<br>0<br>0<br>0<br>0<br>1.6<br>1,4 | <u>WL</u> <u>Removed</u><br>13.22'              | Flow Rate                    | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                    |

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                                                                                                                                                                                   | <u>WL</u> <u>Removed</u><br>109.30                                                                                 | Flow Rate                                           | <u>Do</u>                                                                                                 | <u>orp</u><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Remarks<br>( <u>TIME</u><br>(285)<br>(910<br>(917)<br>(92)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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 | <u>conductivity</u><br><u>conductivity</u><br><u>urement-depth to</u><br><u>primping</u><br><u>te adjusted</u><br><u>988</u>                                                                                                                                                                                                                                                                             | 2 <u>24</u><br>~~la_<br>+2_~/<br>7.02                    | NTU:<br>.0<br>.0<br>.5_0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>WL</u> <u>Removed</u><br>109.30<br><br><br>109.41                                                               | <u>Flow Rate</u><br>                                | <u>bo</u><br><br>749                                                                                      | 1710                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Remarks<br>( <u>TIME</u><br>( <u>085</u> )<br>( <u>110</u><br>( <u>917</u><br>( <u>92</u> )<br>( <u>928</u> )<br>( <u>928</u> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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 | <u>Conductivity</u><br><u>rement-depth to</u><br><u>primping</u><br><u>te adjusted</u><br><u>988</u><br><u>(002</u>                                                                                                                                                                                                                                                                                      | 211<br>                                                  | NTU:<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>WL</u> <u>Removed</u><br>109.30<br><br><br>109.41<br><br>109.44                                                 | Flow Rate                                           | <u>Do</u><br>                                                                                             | 171.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Remarks<br>(TIME<br>(285)<br>(910<br>(917<br>(92)<br>(92)<br>(925<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)<br>(935)                                                                                                                         | <u>Temp °C</u><br><u>in: + al mes</u><br><u>sturting</u><br><u>flow</u> r<br><u>16.12</u><br><u>17.55</u><br><u>17.43</u>                                                                                                                                | <u>Conductivity</u><br><u>conductivity</u><br><u>arement-depth to</u><br><u>pimping</u><br><u>te</u> <u>adjusted</u><br><u>988</u><br><u>(002</u><br><u>951</u>                                                                                                                                                                                                                                          | 24<br>                                                   | NTUS<br>.0 4/m //<br>ISO<br>9.9<br>7.6                                                                                                                                        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| Remarks<br>(TIME<br>(085)<br>(917)<br>(917)<br>(92)<br>2928<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(925)<br>(9                                                                                                                         | <u>Temp °C</u><br><u>initial mes</u><br><u>sturting</u><br><u>flow</u> r<br><u>16.12</u><br><u>17.55</u><br><u>17.43</u><br><u>17.45</u>                                                                                                                 | <u>Conductivity</u><br><u>conductivity</u><br><u>arement - depth to</u><br><u>primping</u><br><u>te</u> <u>adjusted</u><br><u>988</u><br><u>1002</u><br><u>951</u><br><u>930</u>                                                                                                                                                                                                                         | 24<br>                                                   | NTU:<br>.0 4/m<br>150<br>99<br>76<br>76                                                                                                                                       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| Remarks<br>(TIME<br>(285)<br>(9)17<br>(9)17<br>(9)21<br>(9)25<br>(9)42<br>(9)42<br>(9)45<br>(9)45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u>Jeenish</u><br><u>Ieeno C</u><br><u>initial moto</u><br><u>Sturting</u><br><u>flow</u> r<br><u>16.12</u><br><u>17.55</u><br><u>17.43</u><br><u>17.45</u><br><u>18.20</u>                                                                              | <u>Conductivity</u><br><u>conductivity</u><br><u>rement - depth to</u><br><u>pimping</u><br><u>te</u> <u>adjusted</u><br><u>988</u><br><u>1002</u><br><u>951</u><br><u>930</u><br><u>953</u>                                                                                                                                                                                                             | 2<br>                                                    | NTUS<br>.0 4/m<br>150<br>9.9<br>7.6<br>9.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>WL</u> <u>Removed</u><br>109.30<br>109.41<br>109.43<br>109.43<br>109.38                                         | <u>Flow Rate</u><br>                                | <u>Do</u><br><u>-</u><br><u>749</u><br><u>737</u><br><u>804</u><br><u>764</u><br><u>697</u>               | 171.0<br>144.7<br>144.1<br>127.2<br>111.k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Remarks<br>(TIME<br>(285)<br>(9)17<br>(9)17<br>(9)21<br>(9)21<br>(9)25<br>(9)42<br>(9)42<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9)45<br>(9) | <u>1000 °C</u><br><u>1000 °C</u><br><u>5100 °C</u><br><u>5100 °C</u><br><u>5100 °C</u><br><u>10.12</u><br><u>10.12</u><br><u>10.12</u><br><u>17.55</u><br><u>17.43</u><br><u>17.45</u><br><u>18.20</u><br><u>18.20</u><br><u>18.20</u>                   | <u>Conductivity</u><br><u>rement</u> - depth to<br><u>Primping</u><br><u>te</u> adjusted<br><u>988</u><br><u>1002</u><br><u>951</u><br><u>930</u><br><u>953</u><br><u>951</u>                                                                                                                                                                                                                            | 2<br>                                                    | NTU:<br>.0 4/m.<br>150<br>9.2<br>9.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | WL       Removed         109.30                                                                                    | <u>Flow Rate</u><br>                                | <u>bo</u><br><u>-</u><br><u>749</u><br><u>737</u><br><u>804</u><br><u>764</u><br><u>697</u><br><u>670</u> | 171.0<br>144.7<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.1<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2<br>144.2 |
| Remarks<br>(TIME<br>(285)<br>(9)<br>(9)<br>(9)<br>(9)<br>(9)<br>(9)<br>(9)<br>(9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>Temp °C</u><br><u>i.t.1 mes</u><br><u>sturting</u><br><u>flow</u> r<br><u>16.12</u><br><u>17.55</u><br><u>17.43</u><br><u>17.43</u><br><u>17.45</u><br><u>18.20</u><br><u>18.20</u><br><u>18.20</u><br><u>18.20</u><br><u>18.20</u>                   | <u>Conductivity</u><br><u>conductivity</u><br><u>proposed</u> - <u>depth</u> to<br><u>proposed</u> - <u>depth</u> to<br><u>proposed</u> - <u>depth</u> to<br><u>988</u><br><u>1002</u><br><u>951</u><br><u>930</u><br><u>953</u><br><u>951</u><br><u>930</u><br><u>951</u><br><u>930</u><br><u>951</u><br><u>930</u><br><u>951</u><br><u>930</u><br><u>951</u><br><u>930</u><br><u>930</u><br><u>930</u> | 2<br>                                                    | NTU:<br>.0 4/m.<br>150<br>9.9<br>7.6<br>9.2<br>9.2<br>9.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>WL</u> <u>Removed</u><br>109.30<br>109.30<br>109.41<br>109.43<br>109.43<br>109.38<br>109.38<br>109.41           | <u>Flow Rate</u><br>                                | <u>Do</u><br><u>-</u><br><u>749</u><br><u>737</u><br><u>804</u><br><u>764</u><br><u>670</u><br><u>619</u> | 171.0<br>144.7<br>144.1<br>127.2<br>111.4<br>93.5<br>124.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Remarks<br>"TIME<br>(285)<br>"AllO<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)<br>(917)                                                                                                                             | <u>Temp °C</u><br><u>i.t.d.mes</u><br><u>sturting</u><br><u>flow</u> r<br><u>16.12</u><br><u>17.55</u><br><u>17.43</u><br><u>17.45</u><br><u>18.20</u><br><u>18.20</u><br><u>18.20</u><br><u>18.20</u><br><u>18.20</u><br><u>18.20</u>                   | <u>Conductivity</u><br><u>conductivity</u><br><u>prod-depth to</u><br><u>prod-depth to</u><br><u>prod-depth to</u><br><u>988</u><br><u>1002</u><br><u>951</u><br><u>930</u><br><u>951</u><br><u>930</u><br><u>951</u><br><u>930</u><br><u>951</u><br><u>930</u><br><u>951</u><br><u>930</u><br><u>951</u><br><u>940</u>                                                                                  | 24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24 | NTUS<br>.0 4/m<br>.0 4/m<br>.0 4/m<br>.0 4/m<br>.0 4<br>.0 4 | WL       Removed         109.30                                                                                    | <u>Flow Rate</u><br>                                | <u>bo</u><br><u>-</u><br><u>749</u><br><u>737</u><br><u>804</u><br><u>764</u><br><u>697</u><br><u>670</u> | 171.0<br>144.7<br>144.1<br>127.2<br>111.k<br>93.5<br>124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                        | <u>Terro C</u><br><u>initial mos</u><br><u>sturting</u><br><u>flow</u> r<br><u>16,12</u><br><u>17,55</u><br><u>17,43</u><br><u>17,45</u><br><u>18,20</u><br><u>18,20</u><br><u>18,20</u><br><u>18,20</u><br><u>18,20</u><br><u>18,20</u><br><u>18,20</u> | <u>Conductivity</u><br><u>conductivity</u><br><u>rement-depth to</u><br><u>Pimping</u><br><u>te</u> adjusted<br><u>988</u><br><u>1002</u><br><u>951</u><br><u>930</u><br><u>955</u><br><u>951</u><br><u>930</u><br><u>940</u><br><u>1001</u><br><u>940</u>                                                                                                                                               | 24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24 | NTUS<br>.0 4/1/2<br>150<br>9.2<br>9.2<br>7.7<br>6.3<br>OR-2-5                                                                                                                                                                                                                 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                        | <u>Terro C</u><br><u>initial mos</u><br><u>sturting</u><br><u>flow</u> r<br><u>16,12</u><br><u>17,55</u><br><u>17,43</u><br><u>17,45</u><br><u>18,20</u><br><u>18,20</u><br><u>18,20</u><br><u>18,20</u><br><u>18,20</u><br><u>18,20</u><br><u>18,20</u> | Conductivity<br>Conductivity<br>Arement - deeth to<br>Primping<br>te adjusted<br>988<br>(002<br>951<br>930<br>955<br>951<br>930<br>940<br>11eted (total cr)<br>planted (Rinsote-<br>ric turbidity ur                                                                                                                                                                                                     | 24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24 | NTUS<br>.0 4/1/2<br>150<br>9.2<br>9.2<br>7.7<br>6.3<br>OR-2-5                                                                                                                                                                                                                 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| Black & Veatch Special Projects Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | orp.                                                                                                                                                                                            |                                                                          | Page                                                                 | l of l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Project Number<br>46118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Project Nam<br>Ace                                                                                                                                                                              |                                                                          | <b>Date</b><br>09-2                                                  | 1-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| WELL DATA<br>IN ITIAL DEPTH 108.15<br>Total Depth 192<br>Well Diameter 4/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | / Vater / Water / Well V                                                                                                                                                                        |                                                                          | /ft @ 2°, x=.6                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PHOTOG                                                                                                                                                                                          | RAPH IDENTIFICATIO                                                       | ON NO.                                                               | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| WATER SAMPLING DATA Mic<br>Method of Vater Removal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                 | Was Well Pump                                                            | ed Dry? Ye                                                           | es No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3 Well Volumes NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | gals Amount                                                                                                                                                                                     | of Water Removed                                                         | from Well                                                            | Agals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| FINAL FIELD ANALYSIS<br>Water Temp°C Specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Conductance                                                                                                                                                                                     | micromhos pH                                                             | Turbid                                                               | ity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| TIME Temp *C Conductivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | · ·                                                                                                                                                                                             | <u>WL Removed</u><br>108815'                                             | Flow Rate                                                            | DO ORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ph turneter =                                                                                                                                                                                   | ML <u>Removed</u><br>10.8 \$15'                                          | Flow Rate                                                            | <u>Do orp</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| (TIME TEED °C Conductivity<br>1612 - Initial Measurement of de<br>1622 - pumping- flow rate set =<br>1635 _ 1929 _ 694                                                                                                                                                                                                                                                                                                                                                                                                                                                | ph turnater =<br>n ~1. 1/m<br>690 213                                                                                                                                                           | 108,615'                                                                 | -10 (/m.)<br>-1 34m2                                                 | 504 1025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <u>FIME Temp ·C Conductiviti</u><br><u>1612 - Initial Measurement of de</u><br><u>1622 - pumping - Flow rote Set -</u><br><u>1635 1929 699</u>                                                                                                                                                                                                                                                                                                                                                                                                                        | ph turnater =<br>~ ~ 1.4 L/m,<br>690 213<br>4.93 24.4                                                                                                                                           | 108 \$15'<br>108 31                                                      | -10 (1m.)<br>~134m.<br>>4.0(1m.)                                     | <u>504</u> <u>102.5</u><br>492 <u>71.7</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u>FIME Temp ·C Conductiviti</u><br><u>1612 - Initial Measurement of de</u><br><u>1622 - pumping - Flow rote Set -</u><br><u>1635 1929 699</u>                                                                                                                                                                                                                                                                                                                                                                                                                        | eph turnates =<br>1 - 1 - 1/m,<br>690 - 213<br>690 - 213<br>690 - 213<br>690 - 213<br>690 - 213<br>690 - 213<br>690 - 213<br>1,4                                                                | 108 \$15'<br>108 31<br>108 31<br>108 27                                  | -104/m.2<br>-104/m.2<br>>104/m.2<br>~104/m.2                         | <u>504</u> <u>1025</u><br><u>492</u> <u>71.7</u><br>583 <u>961</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| TIME       Temp °C       Conductivity         1612       -Initial Measurement of de         1622       pumping- Flow rate set         1622       pumping- Flow rate set         1623       1926         1624       1899         1644       1899         1650       19.17         1656       19.13                                                                                                                                                                                                                                                                     | ph turnater =<br>~ ~ 1.4 L/m,<br>690 213<br>4.93 24.4                                                                                                                                           | 108 \$15'<br>108 \$15'<br>108 31<br>108 31<br>108 27<br>108 27           | -10 (1m.)<br>~134m.<br>>4.0(1m.)                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <u>FIME Temp · C Conductiviti</u><br><u>1612 - Initial Measurement of de</u><br><u>1622 - pumping - flow rate set -</u><br><u>1635 1926 694</u><br><u>1644 1899 693</u><br><u>1650 19.17 697</u><br><u>1656 19.13 699</u>                                                                                                                                                                                                                                                                                                                                             | eph turnster =<br>1. 1/m,<br>690 213<br>690 213<br>693 244<br>683 17.4<br>694 17.4<br>6.74 133<br>690 13.9                                                                                      | 108 \$15'<br>108 31<br>108 31<br>108 27                                  | ~104/m.2<br>~104/m.2<br>>104/m.2<br>~104/m.2<br>~1.04/m.2            | <u>504</u> <u>1025</u><br><u>492</u> <u>71.7</u><br>583 <u>961</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| GTIME       Temp • C       Conductivity $1612$ -Initial Measurement of de $1622$ -Initial Measurement of de $1623$ -I926 $1624$ -I926 $1650$ 19.17 $1650$ 19.17 $1650$ 19.13 $1650$ 19.13 $1656$ 19.13 $1702$ 19.16 $1702$ 19.16 $1702$ 19.16 $1703$ 19.58 $1715$ 18.58                                                                                                                     | $ph turnter = \frac{1}{100} \frac{100}{100} \frac{100}{213}$ $\frac{690}{100} \frac{213}{24.4}$ $\frac{6.83}{17.4}$ $\frac{6.94}{17.4} \frac{17.4}{13.3}$ $\frac{6.90}{6.74} \frac{13.3}{13.9}$ | 108 \$15'<br>108 \$15'<br>108 31<br>108 27<br>108 27<br>108 27<br>108 27 | ~104/m.2<br>~104/m.2<br>>104/m.2<br>~104/m.2<br>~1.04/m.2            | 504 102.5<br>492 71.7<br>583 96.1<br>487 84.2<br>501 104.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| GTIME       Temp °C       Conductivity         1612       -Initial Measurement of de         1622       - pumping - flow rate set -         1635       1926         1635       1926         1644       1899         1650       19.17         1656       19.13         1656       19.13         1656       19.13         1702       19.16         1703       18.78         1878       1955                                                                                                                                                                             | $ph turnter = \frac{1}{100} \frac{100}{100} \frac{100}{213}$ $\frac{690}{100} \frac{213}{24.4}$ $\frac{6.83}{17.4}$ $\frac{6.94}{17.4} \frac{17.4}{13.3}$ $\frac{6.90}{6.74} \frac{13.3}{13.9}$ | 108 615'                                                                 | -102/m.2<br>-102/m.2<br>2102/m.2<br>2102/m.2<br>-102/m.2<br>-102/m.2 | $   \begin{array}{r}     504 \\     \overline{)025} \\     \overline{)025} \\     \overline{)025} \\     \overline{)1025} \\     \overline{)105} \\     )10$ |
| FIME       Temp $\cdot c$ Conductivity         1612       -Initial       Measurement of de         1622       pumping-flow rate set         1622       pumping-flow rate set         1635       1926       694         1644       1899       693         1650       19.17       697         1656       19.13       699         1656       19.13       699         1656       19.13       699         1702       19.16       702         1703       19.78       695         1715       18.58       692                                                                 | $ph turnter = \frac{1}{100} \frac{100}{100} \frac{100}{213}$ $\frac{690}{100} \frac{213}{24.4}$ $\frac{6.83}{17.4}$ $\frac{6.94}{17.4} \frac{17.4}{13.3}$ $\frac{6.90}{6.74} \frac{13.3}{13.9}$ | 108 \$15'<br>108 \$15'<br>108 31<br>108 27<br>108 27<br>108 27<br>108 27 | -102/m.2<br>-102/m.2<br>2102/m.2<br>2102/m.2<br>-102/m.2<br>-102/m.2 | $   \begin{array}{r}     504 \\     \overline{)025} \\     \overline{)025} \\     \overline{)025} \\     \overline{)1025} \\     \overline{)105} \\     )10$ |
| GTIME       Temp • C       Conductivity $1612$ -Initial Measurement of de $1622$ -Initial Measurement of de $1635$ 19.25 $1644$ 1899 $1650$ 19.17 $1650$ 19.17 $1650$ 19.13 $1650$ 19.13 $1650$ 19.13 $1702$ 19.16 $1702$ 19.16 $1702$ 19.16 $1702$ 19.18 $1715$ 18.58                                                                                                                      | $ph turnter = \frac{1}{100} \frac{100}{100} \frac{100}{213}$ $\frac{690}{100} \frac{213}{24.4}$ $\frac{6.83}{17.4}$ $\frac{6.94}{17.4} \frac{17.4}{13.3}$ $\frac{6.90}{6.74} \frac{13.3}{13.9}$ | 108 \$15'<br>108 \$15'<br>108 31<br>108 27<br>108 27<br>108 27<br>108 27 | -102/m.2<br>-102/m.2<br>2102/m.2<br>2102/m.2<br>-102/m.2<br>-102/m.2 | $   \begin{array}{r}     504 \\     \overline{)025} \\     \overline{)025} \\     \overline{)025} \\     \overline{)1025} \\     \overline{)105} \\     )10$ |
| GIME       Temp °C       Conductivity         1612       -Initial Measurement of de         1622       -pumping-flow rate set         1635       19.29         1635       19.29         1644       1899         1650       19.17         1650       19.17         1650       19.17         1650       19.17         1650       19.17         1650       19.17         1650       19.17         1650       19.17         1650       19.17         1650       19.17         1702       19.18         1703       19.19         1704       18.78         1715       18.58 | eph turnder =<br>690 213<br>690 213<br>693 24.4<br>683 17.4<br>694 17.4<br>6.94 17.4<br>6.94 13.3<br>690 13.9<br>671 9.3<br>2.I - 092100 - P                                                    | 108 \$15'<br>108 \$15'<br>108 31<br>108 27<br>108 27<br>108 27<br>108 27 | -102/m.2<br>-102/m.2<br>2102/m.2<br>2102/m.2<br>-102/m.2<br>-102/m.2 | $   \begin{array}{r}     504 \\     \overline{)025} \\     \overline{)025} \\     \overline{)025} \\     \overline{)1025} \\     \overline{)105} \\     )10$ |

|                                                                                                                                     |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ONITORING                                                                                                                                                                                                                                                                                                                                                                          | /                                                                                                                                                     |                                                               |                                                                                                                                                  |                                               |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Projec                                                                                                                              | t Number                                                                                                                                                                                                    | 46118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Project Nam                                                                                                                                                                                                                                                                                                                                                                        | e Scruices                                                                                                                                            | Date<br>Orizili                                               | -0ù                                                                                                                                              |                                               |
| Monito                                                                                                                              | r Well Numb                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Field Inves                                                                                                                                                                                                                                                                                                                                                                        | tigator(s)                                                                                                                                            |                                                               |                                                                                                                                                  |                                               |
| Well D                                                                                                                              | ATA<br>L DEPTH<br>Depth<br>iameter                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Water<br>Well V<br>(x)(he                                                                                                                                                                                                                                                                                                                                                          | Column Height<br>olume (gals)<br>ight) x=.163 gal<br>RAPH IDENTIFICATIO                                                                               | /ft <b>E</b> 2°, <del>x=</del> .0                             | 553 gal/ft                                                                                                                                       | 4.                                            |
|                                                                                                                                     | Pumping<br>Surging                                                                                                                                                                                          | Air Lift<br>Bailing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Puraina                                                                                                                                                                                                                                                                                                                                                                            | Was Well Pump                                                                                                                                         |                                                               | es No                                                                                                                                            |                                               |
| FINAL                                                                                                                               | FIELD ANALY                                                                                                                                                                                                 | SIS<br>*C Specific C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | onductorica (57                                                                                                                                                                                                                                                                                                                                                                    | micromhos pH                                                                                                                                          | 705 Turbid                                                    | ity 125                                                                                                                                          |                                               |
| Physic                                                                                                                              | al Appearan                                                                                                                                                                                                 | ce                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ulor                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                       |                                                               |                                                                                                                                                  |                                               |
| Physic<br>Remark                                                                                                                    | al Appearan<br>s<br>Temp_*C                                                                                                                                                                                 | <u>Conductivity</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>ph ntus</u>                                                                                                                                                                                                                                                                                                                                                                     | WL Removed                                                                                                                                            | Flow Rate                                                     |                                                                                                                                                  | ÓRP                                           |
| Physic<br>Remark                                                                                                                    | al Appearan<br>s<br><u>Temp °C</u><br><u>in tul m</u> ess<br><u>Pump r</u> unn                                                                                                                              | <u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u><br><u>Conductivity</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>ph</u> <b>NTU</b><br><u>b</u> <u>water</u> =<br><u>b</u> <u>water</u> =<br><u>b</u> <u>insted</u> to0<br>7.04 21.7                                                                                                                                                                                                                                                              | <u>WL</u> <u>Removed</u><br>109.56<br>L/ma                                                                                                            | Flow Rate<br>~1.0 4/m ;                                       |                                                                                                                                                  |                                               |
| Physic<br>Remark<br>TIME<br><u>1480</u><br>1440<br>1440<br>1440<br>1440<br>1440<br>1440<br>1440<br>14                               | el Appearan<br>S<br><u>Temp °C</u><br><u>is tul m</u> eus<br><u>Pump r</u> unn<br><u>17.25</u><br><u>18.50</u>                                                                                              | <u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u><br><u>conductivity</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DH NTUE<br>DWater =<br>1,057 ed to -1.0<br>7.04 21.7<br>7.14 19.6                                                                                                                                                                                                                                                                                                                  | <u>WL</u> <u>Removed</u><br>109.56<br><u>L/ma</u><br>109.57<br><u>109.57</u>                                                                          | Flow Rate                                                     | <b>DO</b><br>6 64<br>6.54                                                                                                                        | 24.Z<br>106 0                                 |
| Physic<br>Remark<br>TIME<br><u>1400</u><br>1440<br>1440<br>1440<br>1506<br><u>1513</u><br>1523<br>1523                              | el Appearan<br>S<br><u>Temp °C</u><br><u>in tul mense</u><br><u>Pump runn</u><br><u>17.25</u><br><u>18.50</u><br><u>19.24</u>                                                                               | Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Co | <u>ph</u> <u>NTUs</u><br><u>water</u> =<br><u>1007-10</u><br><u>7.04</u> <u>21.7</u><br><u>7.14</u> <u>19.6</u><br><u>7.09</u> <u>20.4</u><br><u>7.09</u> <u>20.4</u><br><u>7.09</u> <u>20.4</u><br><u>7.09</u> <u>20.4</u>                                                                                                                                                        | WL     Removed       109.56                                                                                                                           | Flow Rete<br>~1.0 L/m,<br>~1.0 L/m,<br>~1.0 L/m,              | <b>DO</b><br>6.54<br>6.54                                                                                                                        | 24.2<br>106 0<br>76.5                         |
| Physic<br>Remark<br>TIME<br>1430<br>1440<br>1440<br>1506<br>1513<br>1523<br>1523<br>1523<br>1523<br>1523<br>1523                    | el Appearan<br>S<br><u>Temp °C</u><br><u>in:tul m</u> ess<br><u>pump runn</u><br><u>17.25</u><br><u>18.50</u><br><u>j9.02</u><br><u>19.24</u><br><u>19.3</u><br><u>19.16</u>                                | Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Co | $\frac{\text{pH}}{1000} = \frac{\text{NTU}_{20}}{1000} = \frac{1000}{1000}$ $\frac{1000}{1000} = \frac{1000}{1000}$                                                                                                | <u>WL</u> <u>Removed</u><br>109.56<br><u>Uma</u><br>109.57<br>109.57<br>109.57<br>109.57<br>109.57<br><u>109.57</u><br><u>109.57</u><br><u>109.57</u> | Flow Rete<br>~1.0 L/m.<br>~1.0 L/m.                           | <b>DO</b><br><u>6 64</u><br><u>6.54</u><br><u>6.54</u><br><u>6.54</u><br><u>6.55</u><br><u>6.55</u><br><u>6.55</u><br><u>6.55</u><br><u>6.55</u> | 24.2<br>106 0<br>76.5<br>20.9<br>55.8<br>55.8 |
| Physic<br>Remark<br>TIME<br><u>1400</u><br>1440<br>1440<br>1440<br>1506<br><u>1513</u><br><u>1523</u><br><u>1531</u><br><u>1540</u> | el Appearan<br>S<br><u>I = trul press</u><br><u>10. trul press</u><br><u>10. trul press</u><br><u>14. 50</u><br><u>19.50</u><br><u>19.50</u><br><u>19.24</u><br><u>19.3</u><br><u>19.16</u><br><u>18.76</u> | Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Co | $\frac{\text{pH}}{1000} = \frac{\text{NTU}}{100000000000000000000000000000000000$                                                                                                                                                                                                                                                                                                  | WL         Removed $109.56$                                                                                                                           | Flow Rate<br>~1.0 L/m.<br>~1.0 L/m.<br>~1.0 L/m.<br>~1.0 L/m. | <b>DO</b><br><u>6 64</u><br><u>6.54</u><br><u>6.54</u><br><u>6.55</u><br><u>6.55</u><br><u>6.55</u><br><u>6.55</u><br><u>6.55</u><br><u>6.55</u> | 24.2<br>106 0<br>76.5<br>20.9<br>55.7         |
| Physic<br>Remark<br>TIME<br>1480<br>1440<br>1440<br>1440<br>1506<br>1513<br>1523<br>1523<br>1523<br>1523<br>1523<br>1523<br>1523    | el Appearan<br>S<br><u>I = trul press</u><br><u>10. trul press</u><br><u>10. trul press</u><br><u>14. 50</u><br><u>19.50</u><br><u>19.50</u><br><u>19.24</u><br><u>19.3</u><br><u>19.16</u><br><u>18.76</u> | Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Conductivity<br>Co | $\frac{\text{pH}}{1000} = \frac{\text{NTU}}{1000}$ $\frac{1000}{1000} = \frac{1000}{1000}$ | WL         Removed $109.56$                                                                                                                           | Flow Rate<br>~1.0 L/m.<br>~1.0 L/m.<br>~1.0 L/m.<br>~1.0 L/m. | <b>DO</b><br><u>6 64</u><br><u>6.54</u><br><u>6.54</u><br><u>6.54</u><br><u>6.55</u><br><u>6.55</u><br><u>6.55</u><br><u>6.55</u><br><u>6.55</u> | 24.2<br>106 0<br>76.5<br>20.9<br>55.8<br>55.8 |

|                                                                |                                               | ·                             |                | l of    |
|----------------------------------------------------------------|-----------------------------------------------|-------------------------------|----------------|---------|
| Project Number<br>46118                                        |                                               |                               |                | _       |
|                                                                | Project Nam                                   |                               | Date           |         |
| onitor Well Number                                             | Ace                                           | Services                      | 9-1            | 9-00    |
| PWS-8                                                          | Field Inves                                   |                               |                |         |
|                                                                |                                               |                               |                |         |
| INITIAL DEPTH<br>Total Depth240'                               | Water Well V                                  | Column Height<br>olume (gals) |                |         |
| Vell Diameter                                                  | (x)(he                                        | ight) x=.163 gal              | /ft @ 2°, x=.6 | 553 gal |
| HETHOD OF WELL DEVELOPMENT                                     | РНОТОС                                        | RAPH IDENTIFICATI             | ON NO.         |         |
| Y Pumping Air Lift<br>Surging Bailing                          |                                               |                               |                |         |
|                                                                |                                               |                               |                | ,       |
| WATER SAMPLING DATA<br>Method of Water Removal <u>del:cute</u> | w turbine                                     | pur Was Well Pump             | ed Dry1 Ye     | es (    |
| 3 Well Volumes NA gal                                          |                                               | 2                             |                |         |
| FINAL FIELD ANALYSIS                                           | •                                             |                               | <b>-</b>       |         |
| Water Temp°C Specific Co                                       | nductance                                     | micromhos pH_                 | Turbid:        | ity     |
| Physical Appearance Greenigh                                   |                                               |                               |                |         |
| "hysical Appearance y com, m                                   |                                               |                               |                |         |
| Paraska                                                        |                                               |                               |                |         |
| Remarks                                                        | <u> </u>                                      |                               |                |         |
|                                                                |                                               |                               |                |         |
| TIME Temp *C Conductivity                                      | <u>ph NTUs</u>                                | WL <u>Removed</u>             | Flow Rate      | DO      |
| 1018 Stut Punjing                                              |                                               | ·                             | ·              |         |
| 1019 15.21 351                                                 | 7.5 29                                        | 2400 40'                      |                | 666     |
| 1027 15.19 582                                                 | 7.4 14                                        | O 3 tales                     | 850 -          | 6.19    |
| 1046 592                                                       | <u>01                                    </u> |                               | 850 jan        | 6. 96   |
| 1044 <u>15.2 542</u><br>1050 <u>15.3 584</u>                   | ר,ר <u>וס</u><br>7, <u>4 5</u>                |                               | <u>v jen</u>   | 6.90    |
|                                                                |                                               |                               | 850,1m         |         |
| 1109                                                           | 7.6 - 9<br>7.5 - 3.6                          |                               |                | 6.3     |
| 110 15.3 592                                                   | 75 71                                         |                               | <del></del>    |         |
| $\frac{1110}{1110} \frac{15.3}{15.7} \frac{592}{587}$          | 1,3 3,6                                       |                               |                |         |
|                                                                | 7.5 3.6                                       | - r 10.200 c                  | 5              | 6.89    |
|                                                                | <u> </u>                                      | r 1 <u>0,200 s</u>            | ۶ <u> </u>     |         |
|                                                                | 7 <u>,3</u> <u>5,6</u><br>                    |                               | ۰              |         |
|                                                                |                                               | <br>                          | ۰              |         |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| DEVI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ELOPMENT/PURGING DATA                                                     |                                  |                                                                                                                              |
| Project Number<br>46/18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Project Name<br>Ace Service                                               | Date<br>9-20                     | -07)                                                                                                                         |
| Monitor Well Number<br>HPMW-6-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Field Investigator(s)                                                     | <b></b>                          |                                                                                                                              |
| WELL DATA<br>INITIAL DEPTH 105.41<br>Total Depth 125'<br>Well Diameter 4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | /<br>Water Column Height<br>Well Volume (gals)<br>(x)(height) x=.163 gal/ | 20<br>-13 Jul<br>/ft ( 2°, x=.65 | <br>3 gal/ft @ 4*                                                                                                            |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PHOTOGRAPH IDENTIFICATIO                                                  | NO.                              |                                                                                                                              |
| WATER SAMPLING DATA<br>Method of Water Removal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Umping Was Well Pumpe                                                     | ed Dry7 Yes                      | No                                                                                                                           |
| 3 Well Volumes <u>~39</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | _gals Amount of Water Removed f                                           | from Well ~60                    | Ogals                                                                                                                        |
| Physical Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           | Turbidi                          | ····                                                                                                                         |
| Water Temp*C Specifi<br>Physical Appearance<br>Remarks<br><u>TIME Temp *C Conductivi</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           | Turbidit                         | <u>Do</u> <u>orp</u>                                                                                                         |
| Water Temp*C Specifi<br>Physical Appearance<br>Remarks<br><u>TIME Temp *C Conductivi</u><br><u>1125</u> J. Frid W.L.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Lty pH NTUs VL Removed                                                    | Flow Rate                        |                                                                                                                              |
| Water Temp*C Specifi<br>Physical Appearance<br>Remarks<br><u>FIME Temp *C Conductivi</u><br><u>11251</u> <u>Finitial</u> <u>W.L.</u><br><u>W</u> U40 Start Pu-ping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Lty pH NTUs WL Removed<br>1054'                                           |                                  | <u>Do orp</u>                                                                                                                |
| Water Temp*C Specifi<br>Physical Appearance<br>Remarks<br>$\underline{\text{TIME}}$ Temp *C Conductivi<br>$\underline{1125}_{14}$ $\underline{\text{Trid}}$ $\underline{\text{W.L}}_{1}$<br>$\underline{\text{W}}_{140}$ $\underline{\text{Start}}$ $\underline{\text{Pu-ping}}_{1209}$<br>$\underline{1209}$ $\underline{16.2}$ $\underline{579}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | $\frac{105.4'}{6.10} \frac{4}{4} \frac{105.4'}{10}$                       | Flow Rate                        | <u>Do orp</u><br><u>0,55 137</u>                                                                                             |
| Water Temp*C Specifi<br>Physical Appearance<br>Remarks<br><u>FIME Temp *C Conductivi</u><br><u>11251</u><br><u>11251</u><br><u>June Faiting W.L.</u><br><u>Start Pu-ping</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lty pH NTUs WL Removed<br>1054'                                           | Flow Rate                        | DO ORP<br>0,55 137                                                                                                           |
| Water Temp*C Specifi<br>Physical Appearance<br>Remarks<br>$\frac{1125_{14}}{1125_{14}} = \frac{10.2}{54.2} = \frac{10.2}{579}$<br>$\frac{1209}{1209} = \frac{16.2}{981} = \frac{92}{981}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                     | Flow Rate                        | <u>Do</u> <u>orp</u><br><u>0,55</u> <u>137</u><br><u>0,26</u> <u>114</u><br><u>0,23</u> <u>108</u><br><u>0,21</u> <u>106</u> |
| Water Temp*C       Specific         Physical Appearance       Remarks         Remarks $I_{25}$ , $I_{25}$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                     | Flow Rate                        | DO ORP<br>0.55 137<br>0.26 114<br>0.23 108<br>0.21 106<br>0.19 99.5                                                          |
| Water Temp*C       Specific         Physical Appearance       Remarks         Time       Temp *C       Conductivit $1125_{14}$ $\overline{T_{1.1}}$ $\overline{U}$ $1125_{14}$ $\overline{I_{1.2}}$ $\overline{I_{1.2}}$ $1209$ $16.2$ $979$ $1209$ $16.2$ $980$ $1214$ $16.2$ $980$ $1221$ $16.2$ $980$ $1223$ $16.2$ $980$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                     | Flow Rate                        | <u>Do</u> <u>orp</u><br><u>0,55</u> <u>137</u><br><u>0,26</u> <u>114</u><br><u>0,23</u> <u>108</u><br><u>0,21</u> <u>106</u> |
| Water Temp*C       Specific         Physical Appearance       Remarks         Remarks       Image: Conductivic         1125_14 $Image: Conductivic         1125_14       Image: Conductivic         1209       Image: Conductivic$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                     | Flow Rate                        | DO ORP<br>0.55 137<br>0.26 114<br>0.23 108<br>0.21 106<br>0.19 99.5                                                          |
| Water Temp*C       Specific         Physical Appearance       Remarks         Time       Temp *C       Conductivit $1125_{14}$ $\overline{T_{1.1}}$ $\overline{U}$ $1125_{14}$ $\overline{I_{1.2}}$ $\overline{I_{1.2}}$ $1209$ $16.2$ $979$ $1209$ $16.2$ $980$ $1214$ $16.2$ $980$ $1221$ $16.2$ $980$ $1223$ $16.2$ $980$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                     | Flow Rate                        | DO ORP<br>0.55 137<br>0.26 114<br>0.23 108<br>0.21 106<br>0.19 99.5                                                          |
| Water Temp*C       Specific         Physical Appearance       Remarks         Time       Temp *C       Conductivit $1125_{14}$ $\overline{T_{1.1}}$ $\overline{U}$ $1125_{14}$ $\overline{I_{1.2}}$ $\overline{I_{1.2}}$ $1209$ $16.2$ $979$ $1209$ $16.2$ $980$ $1214$ $16.2$ $980$ $1221$ $16.2$ $980$ $1223$ $16.2$ $980$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                     | Flow Rate                        | DO ORP<br>0.55 137<br>0.26 114<br>0.23 108<br>0.21 106<br>0.19 99.5                                                          |

| Black & Veatch Special Projects Cor                                                                             | p.                                                                                                                                                                                      | Page of                                                |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|                                                                                                                 | NONITORING WELL                                                                                                                                                                         |                                                        |
|                                                                                                                 | OPMENT/PURGING DATA                                                                                                                                                                     |                                                        |
| Project Number<br>46118                                                                                         | Project Name<br>Ace Savices                                                                                                                                                             | Date<br>[-20-00]                                       |
| Monitor Well Number<br>HPMW-9-5                                                                                 | Field Investigator(s)<br>G. Felkna                                                                                                                                                      |                                                        |
| WELL DATA<br>INITIAL DEPTH 103.37 <sup>1</sup><br>Total Depth 125 <sup>1</sup><br>Well Diameter 4 <sup>11</sup> | Water Column Height <u>~ 2</u><br>Well Volume (gals)<br>(x)(height) x=.163 gal/                                                                                                         | - <u>2</u><br>                                         |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing                                               | PHOTOGRAPH IDENTIFICATIO                                                                                                                                                                | ои и.<br>Т                                             |
| WATER SAMPLING DATA<br>Method of Water Removal                                                                  | Was Well Pumpe                                                                                                                                                                          | ed Dry? Yes No                                         |
| 3 Well Volumes <u>43</u>                                                                                        | als Amount of Water Removed f                                                                                                                                                           | rom Well <u>~470 gd</u>                                |
| FINAL FIELD ANALYSIS<br>Water Temp°C Specific (                                                                 | Conductancemicromhos pH                                                                                                                                                                 | Turbidity                                              |
| Physical Appearance                                                                                             |                                                                                                                                                                                         |                                                        |
| Remarks                                                                                                         |                                                                                                                                                                                         | ا<br><br>T                                             |
| <u>TIME Temp °C Conductivity</u><br>1315 <u>Tritid W.L.</u>                                                     | <u>ph NTUs WL Removed</u><br>(03,37'                                                                                                                                                    | Flow Rate DO ORP                                       |
| 1322 stat punging                                                                                               |                                                                                                                                                                                         | 10.9 gp 1,3 191                                        |
| 1338 15.5 939                                                                                                   | 6.89 2.2                                                                                                                                                                                |                                                        |
|                                                                                                                 | 6.81 0.3                                                                                                                                                                                | 0.8 191                                                |
| <u>1344 15.5 943</u>                                                                                            | 6. <u>81</u> <u>0.3</u>                                                                                                                                                                 | <u> </u>                                               |
| $\frac{1344}{15.5} - \frac{15.5}{548}$ $\frac{1356}{15.5} - \frac{548}{550}$                                    | $\begin{array}{c} 6\underline{81} & \underline{0.3} \\ 6\underline{80} & \underline{0} \\ 6\underline{8} & 0 \end{array}$                                                               | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| $\frac{1344}{15.5} - \frac{15.5}{548}$ $\frac{1356}{15.5} - \frac{548}{550}$                                    | $\begin{array}{c c} 6\underline{8} & \underline{0}, \underline{3} \\ 6\underline{8} & \underline{0} \\ 6\underline{8} & \underline{0} \\ 6\underline{8} & \underline{0} \\ \end{array}$ | 1,12 192                                               |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                           | $\begin{array}{c c} 6\underline{8} & \underline{0}, \underline{3} \\ 6\underline{8} & \underline{0} \\ 6\underline{8} & \underline{0} \\ 6\underline{8} & \underline{0} \\ \end{array}$ | <u>1,12 192</u><br><u>0,75 192</u>                     |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                           | $\begin{array}{c} 6\underline{81} & \underline{0.3} \\ 6\underline{80} & \underline{0} \\ 6\underline{8} & 0 \end{array}$                                                               |                                                        |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                           | $\begin{array}{c c} 6\underline{8} & \underline{0}, \underline{3} \\ 6\underline{8} & \underline{0} \\ 6\underline{8} & \underline{0} \\ 6\underline{8} & \underline{0} \\ \end{array}$ |                                                        |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                           | 6.81  0.3  -  -  -  -  -  -  -  -  -                                                                                                                                                    |                                                        |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                           | 6.81  0.3  -  -  -  -  -  -  -  -  -                                                                                                                                                    |                                                        |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                           | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                   |                                                        |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MONITORIN                                                                                           | GWFU                                                                                                                                                                                                      |                 | <u>-</u>    | l of                                 |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|--------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | OPMENT                                                                                              | · · ·                                                                                                                                                                                                     | DATA            |             | <b></b>                              |                            |
| Project Number<br>46118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Project<br>Ace                                                                                      |                                                                                                                                                                                                           |                 | Date<br>09- | 22.00                                |                            |
| Monitor Well Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Field In                                                                                            | vestigator                                                                                                                                                                                                | (s)             |             |                                      |                            |
| WELL DATA<br>INITIAL DEPTH Residential<br>Total Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Wat                                                                                                 | er Column  <br>1 Volume ()                                                                                                                                                                                | Height<br>gals) | ·           |                                      |                            |
| Well Diameter<br>METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | · · · · · · · · · · · · · · · · · · ·                                                               | -                                                                                                                                                                                                         | ENTIFICATIO     |             | 9                                    |                            |
| WATER SAMPLING DATA<br>Method of Water Removal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u> </u>                                                                                            | Vas                                                                                                                                                                                                       | Well Pumpe      | ed Dry7 Y   | es No                                | 0                          |
| 3 Well Volumes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | als Amou                                                                                            | int of Wate:                                                                                                                                                                                              | r Removed f     | rom Well    |                                      | . ga                       |
| Physical Appearance (lear<br>Remarks 175 Thompson R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                     |                                                                                                                                                                                                           |                 |             |                                      |                            |
| Remarks 175 Thompson R<br>(TIME Temp °C Conductivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D-                                                                                                  | Res;                                                                                                                                                                                                      |                 | Flow Rate   | _Do_                                 | ORI                        |
| Remarks 175 Thompson R<br>(TIME TEMP °C Conductivity<br>1541 - Started tup through                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | D-<br><u>ph</u> NT<br>h hose                                                                        | Res;                                                                                                                                                                                                      | dence           |             | _Do                                  | ORF                        |
| Remarks 175 Thompson R<br><u>GIME Temp °C Conductivity</u><br>1541 - Started trip through<br>1546 - Started monturing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | D-<br><u>DH</u> NT<br>h hose                                                                        | <u>VI</u> <u>WL</u>                                                                                                                                                                                       | dence           |             |                                      |                            |
| Remarks 175 Thompson R<br><u>GIME Temp °C Conductivity</u><br><u>1541 - Started tup through</u><br><u>1546 - Started monturing</u><br><u>1546 15.15 791</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | D-<br><u>PH</u> NT<br>h hose<br>7.9-0.                                                              | <u>VI</u> <u>WI</u><br>                                                                                                                                                                                   | dence           |             | 6.94                                 | 264.1                      |
| <u>GIME IEED °C Conductivity</u><br><u>1541 - Started trip throws</u><br><u>1546 - Started trip throws</u><br><u>1546 15.15 791</u><br><u>1551 15.11 792</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>ph</u> <u>n</u><br><u>h</u> <u>hose</u><br>7 <u>.19</u> <u>-0</u> .<br>7.19 <u>-0</u> .          | <u>V:</u> <u>VI</u><br><u>-</u> <u>-</u><br><u>-</u> <u>-</u><br><u>-</u> <u>-</u>                                                                                                                        | dence           |             |                                      | 264.1                      |
| Remarks 175 Thompson R<br><u>GIME Temp °C Conductivity</u><br><u>1541 - Started tup through</u><br><u>1546 - Started monturing</u><br><u>1546 15.15 791</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | D-<br><u>PH</u> NT<br>h hose<br>7.19 -0.<br>7.19 -0.                                                | <u>Vs</u> <u>VL</u><br><u>-</u><br><u>-</u><br><u>-</u><br><u>-</u><br><u>-</u><br><u>-</u><br><u>-</u><br><u>-</u><br><u>-</u><br><u>-</u>                                                               | dence           |             | 694<br>684                           | 264.1<br>2540<br>262.      |
| Remarks       175       Thompson R         GIME       Temp °C       Conductivity         1541       - Started trup thrown         1546       - Started trup thrown         1551       15.15         1551       15.08         783                                                                                                                                                                                                                                                                                                                                                                                                           | $D - \frac{DH}{NT}$ $h hose - \frac{1}{7.19} - \frac{0}{7.23} - \frac{1}{20}$ $7.24 - \frac{1}{20}$ | <u>V</u> : <u>V</u> :<br><u>-</u><br>- <u>2</u><br>- <u>1</u><br>- <u>2</u><br>- <u>-</u><br>- <u>2</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u>                             | derce           | Flow Rate   | 6.94<br>6.84<br>7.50<br>7.58<br>7.58 | 264<br>256<br>262<br>272   |
| Remarks       175       Thompson R         Conductivity       1541       - Started tup throws         1546       - Started tup throws         1551       - Started tup throws         1508       - 783         1601       - 1511 | $D - \frac{DH}{NT}$ $h hose - \frac{1}{7.19} - \frac{0}{7.23} - \frac{1}{20}$ $7.24 - \frac{1}{20}$ | <u>V</u> : <u>V</u> :<br><u>-</u><br>- <u>2</u><br>- <u>1</u><br>- <u>2</u><br>- <u>-</u><br>- <u>2</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u>                             | derce           | Flow Rate   | 694<br>684<br>7.50<br>7.58           | 264.1<br>256               |
| Remarks       175       Thompson R         Conductivity       1541       - Started tup throws         1546       - Started tup throws         1551       - Started tup throws         1508       - 783         1601       - 1511 | $D - \frac{DH}{NT}$ $h hose - \frac{1}{7.19} - \frac{0}{7.23} - \frac{1}{20}$ $7.24 - \frac{1}{20}$ | <u>V</u> : <u>V</u> :<br><u>-</u><br>- <u>2</u><br>- <u>1</u><br>- <u>2</u><br>- <u>-</u><br>- <u>2</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u>                             | derce           | Flow Rate   | 6.94<br>6.84<br>7.50<br>7.58<br>7.58 | 264<br>256<br>262<br>272   |
| Remarks       175       Thompson R         Conductivity       1541       - Started tup throws         1546       - Started tup throws         1551       - Started tup throws         1508       - 783         1601       - 1511 | $D - \frac{DH}{NT}$ $h hose - \frac{1}{7.19} - \frac{0}{7.23} - \frac{1}{20}$ $7.24 - \frac{1}{20}$ | <u>V</u> : <u>V</u> :<br><u>-</u><br>- <u>2</u><br>- <u>1</u><br>- <u>2</u><br>- <u>-</u><br>- <u>2</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u>                             | derce           | Flow Rate   | 6.94<br>6.84<br>7.50<br>7.58<br>7.58 | 264                        |
| Remarks       175       Thompson R         Conductivity       1541       - Started tup throws         1546       - Started tup throws         1551       - Started tup throws         1508       - 783         1601       - 1511 | $D - \frac{DH}{NT}$ $h hose - \frac{1}{7.19} - \frac{0}{7.23} - \frac{1}{20}$ $7.24 - \frac{1}{20}$ | <u>V</u> : <u>V</u> :<br><u>-</u><br>- <u>2</u><br>- <u>1</u><br>- <u>2</u><br>- <u>-</u><br>- <u>2</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u><br>- <u>-</u>                             | derce           | Flow Rate   | 6.94<br>6.84<br>7.50<br>7.58<br>7.58 | 264.<br>256<br>262.<br>272 |
| Remarks       175       Thompson R         Conductivity       1541       - Started tup throws         1546       - Started tup throws         1551       - Started tup throws         1508       - 783         1601       - 1511 | <u>PH</u> NT<br>h hose<br>7.9 -0.<br>7.9 -0.<br>7.9 -0.<br>7.23 -0.<br>7.24 -0.<br>5                | <u>V</u> : <u>V</u> :<br><u>-</u><br>- <u>2</u><br>- <u>1</u><br>- <u>2</u><br>- <u>1</u><br>- <u>2</u><br>- <u>2</u><br>- <u>2</u><br>- <u>2</u><br>- <u>2</u><br>- <u>2</u><br>- <u>2</u><br>- <u>2</u> | derce           | Flow Rate   | 6.94<br>6.84<br>7.50<br>7.58<br>7.58 | 264<br>256<br>262<br>272   |

| Black & Veatch Special Projects Corp.                             |                            |           |             | Page                       | l of l          |
|-------------------------------------------------------------------|----------------------------|-----------|-------------|----------------------------|-----------------|
|                                                                   | NITORING W                 |           |             |                            |                 |
| DEVELOF                                                           | PMENTPURG                  | SING      | DATA        |                            | -               |
| Project Number                                                    | Project Name               |           |             | Date                       |                 |
| 46118                                                             | Are S                      |           |             | 9-22                       | 2-00            |
| Monitor Well Number<br>RW-2                                       | Field Invest:<br>G. Fel    | -         |             |                            | 7               |
| WELL DATA<br>INITIAL DEPTH Residentia                             | Vatar C                    | -1        | Haisht      |                            |                 |
| Total Depth                                                       | Well Vol                   | lume (    | gals)       |                            |                 |
| Well Diameter                                                     |                            | ght)      | x=.163 gal/ | ft <b>(</b> 2°, <b>x</b> 0 | 553 gal/ft @ 4* |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing | PHOTOGRA                   | APH ID    | ENTIFICATIO | N NO.                      | 1               |
| WATER SAMPLING DATA<br>Method of Water Removal                    |                            | Was       | Well Pumpe  | d Dry7 Ye                  | es No           |
| 3 Well Volumesgals                                                | Amount of                  | f Wate    | r Removed f | rom Well                   | gals            |
| FINAL FIELD ANALYSIS<br>Water Temp°C Specific Con                 | nductance                  | micr      | osahos pH   | Turbid                     | ity             |
| Physical Appearance                                               |                            |           |             |                            |                 |
| Remarks                                                           |                            |           |             |                            |                 |
| <u>"TIME TOOD "C Conductivity</u><br>1449 <u>Start pursing</u>    | <u>ph ntus</u>             | <u>WL</u> | Removed     | Flow Rate                  | DO ORP          |
| 1455 16.2 414                                                     | 7.78 0                     |           |             |                            | 8.75 212        |
| 1500 15.9 413                                                     | 7.78 0<br>7.64 0<br>7.74 0 | _         |             |                            | 8.75 213        |
|                                                                   | 7.74 0<br>7.74 0           |           |             |                            | 8.73 214        |
|                                                                   | 7.74 0                     |           | . <u></u>   |                            | 8.72 212        |
| 1510 Collect xingh                                                |                            |           |             | <u> </u>                   |                 |
|                                                                   |                            | -         |             |                            |                 |
|                                                                   |                            |           |             |                            |                 |
|                                                                   |                            |           |             |                            |                 |
|                                                                   |                            | _         |             |                            |                 |
|                                                                   |                            | _         | •           |                            |                 |
| NTU - Nephelometric turbidity uni                                 | .ts                        |           |             |                            |                 |
| WL - Water level                                                  |                            |           |             |                            | 5.24-00         |
| Checked By 274                                                    |                            |           |             | Date                       | 9-26-00         |

|                                                                                                                                                                       |                                                                                                                |                       |              | Page       | of                               |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------|--------------|------------|----------------------------------|----------------|
| DEVE                                                                                                                                                                  |                                                                                                                |                       | DATA         |            |                                  | _              |
| Project Number<br>46(18                                                                                                                                               | Project                                                                                                        | Name<br>Solvic        | es           | Dateg      | -22-0                            | 20             |
| Monitor Well Number<br>NW-3                                                                                                                                           | Field I                                                                                                        | nvestigator<br>Felkna | (s)          |            |                                  |                |
| WELL DATA<br>INITIAL DEPTH <u>Residential</u><br>Total Depth<br>Well Diameter                                                                                         | Ve<br>(x                                                                                                       | 11 Volume (           | gals)        | ft @ 2°, x |                                  |                |
| METHOD OF WELL DEVELOPMENT<br>Pumping Air Lift<br>Surging Bailing                                                                                                     | PH                                                                                                             | <b>otograph</b> ID    | DENTIFICATIO | N NO.      |                                  |                |
| WATER SAMPLING DATA<br>Method of Water Removal                                                                                                                        |                                                                                                                | Was                   | s Well Pumpe | ed Dry7 Y  | es Ni                            | 0              |
| 3 Well Volumes                                                                                                                                                        |                                                                                                                |                       |              |            |                                  |                |
| Physical Appearance                                                                                                                                                   |                                                                                                                |                       |              |            |                                  |                |
| Remarks                                                                                                                                                               |                                                                                                                |                       | Removed      | Flow Rate  | Do                               | OR             |
| Remarks<br><u> (TIME Temp °C Conductivity</u><br><u> 1525 Start Purping</u>                                                                                           | <u>ey dh N</u>                                                                                                 | <u>TUs VL</u>         |              |            |                                  |                |
| Remarks<br>$\frac{\text{TIME}}{1525} \xrightarrow{\text{Temp } c} Conductivity  \frac{1525}{153^2} \xrightarrow{\text{Stant}} Pu-ping  153^2 \xrightarrow{15.4} 395 $ | <b>ех <u>рн</u> м</b><br>7 <u>.6</u> 5                                                                         | <b>ТUs УL</b>         |              |            | <u>bo</u><br><u>8.52</u><br>8.37 | 30             |
| Remarks         C Conductivit         1525       Start $P_{U-ping}$ 1532       15.4       395         1532       15.4       400         1541       15.3       400     | EX ₽ <u>H</u> №<br>7. <u>6</u> 5<br>7. <u>6</u> 5                                                              | <b>ТUs Чь</b><br>     |              |            | <u>8.52</u><br>8.37<br>8.40      | 30<br>43<br>39 |
| Remarks         Conductivity $1525$ $54a$ $9u-ping$ $1532$ $15.4$ $395$ $1532$ $15.4$ $395$ $1536$ $15.4$ $400$ $1541$ $15.3$ $400$ $1541$ $15.3$ $400$               | EX ₽ <u>H</u> №<br>7. <u>6</u> 5<br>7. <u>6</u> 5                                                              | <b>ТUs УL</b>         |              |            | <u>8.52</u><br>8.37              | 30<br>43<br>39 |
| Remarks         C Conductivit         1525       Start $P_{U-ping}$ 1532       15.4       395         1532       15.4       400         1541       15.3       400     | EX ₽ <u>H</u> №<br>7. <u>6</u> 5<br>7. <u>6</u> 5                                                              | <b>ТUs Чь</b><br>     |              |            | <u>8.52</u><br>8.37<br>8.40      | 30<br>43<br>39 |
| Remarks         Conductivity $1525$ $54a$ $9u-ping$ $1532$ $15.4$ $395$ $1532$ $15.4$ $395$ $1536$ $15.4$ $400$ $1541$ $15.3$ $400$ $1541$ $15.3$ $400$               | EX ₽ <u>H</u> №<br>7. <u>6</u> 5<br>7. <u>6</u> 5                                                              | <b>ТUs Чь</b><br>     |              |            | <u>8.52</u><br>8.37<br>8.40      | 30<br>43<br>39 |
| Remarks         Conductivity $1525$ $54a$ $9u-ping$ $1532$ $15.4$ $395$ $1532$ $15.4$ $395$ $1536$ $15.4$ $400$ $1541$ $15.3$ $400$ $1541$ $15.3$ $400$               | EX ₽ <u>H</u> №<br>7. <u>6</u> 5<br>7. <u>6</u> 5                                                              | <b>ТUs Чь</b><br>     |              |            | <u>8.52</u><br>8.37<br>8.40      | 30<br>43<br>39 |
| Remarks         Conductivity $1525$ $54a$ $9u-ping$ $1532$ $15.4$ $395$ $1532$ $15.4$ $395$ $1536$ $15.4$ $400$ $1541$ $15.3$ $400$ $1541$ $15.3$ $400$               | EX ₽ <u>H</u> №<br>7. <u>6</u> 5<br>7. <u>6</u> 5                                                              | <b>ТUs Чь</b><br>     |              |            | <u>8.52</u><br>8.37<br>8.40      | 30<br>43<br>39 |
| Remarks         Conductivity $1525$ $54a$ $9u-ping$ $1532$ $15.4$ $395$ $1532$ $15.4$ $395$ $1536$ $15.4$ $400$ $1541$ $15.3$ $400$ $1541$ $15.3$ $400$               | EX ₽ <u>H</u> №<br>7. <u>6</u> 5<br>7. <u>6</u> 5                                                              | <b>ТUs Чь</b><br>     |              |            | <u>8.52</u><br>8.37<br>8.40      | 30<br>43<br>39 |
| Remarks         Conductivity $1525$ $54a$ $9u-ping$ $1532$ $15.4$ $395$ $1532$ $15.4$ $395$ $1536$ $15.4$ $400$ $1541$ $15.3$ $400$ $1541$ $15.3$ $400$               | EX <u>PH</u> <u>N</u><br>7.65 <u>1</u><br>7.65 <u>1</u><br>7.65 <u>1</u><br>7.67 <u>1</u><br>7.67 <u>1</u><br> | <b>ТUs Чь</b><br>     |              |            | <u>8.52</u><br>8.37<br>8.40      | 30<br>43<br>39 |

| Black &      | Veatch Spe                 | ecial Projects Corp.             | · · · · · · · · · · · · · · · · · · · |                               |                            |                                | Page        | l of            |
|--------------|----------------------------|----------------------------------|---------------------------------------|-------------------------------|----------------------------|--------------------------------|-------------|-----------------|
|              |                            | МС                               | ONITO                                 | RING V                        | VELL                       | $\mathbf{i}$                   |             |                 |
|              |                            | DEVELO                           | PMEN                                  | T/PUR                         | GING                       | DATA                           |             |                 |
|              | Number<br>46118            |                                  | ાં ન                                  | ect Name                      |                            | 5                              | Date<br>9-  | -22-00 -        |
|              | Well Numb                  |                                  | Field                                 | d Invest                      | <u> </u>                   |                                |             | _               |
|              | DEPTH                      | Legidence                        |                                       | Water C<br>Well Vo<br>(x)(hei | column<br>)lume (<br>.ght) | Height<br>gals)<br>x=.163 gal/ | ft ( 2°, x6 | 53 gal/ft @ 4*  |
| 1            |                            | VELOPMENT<br>Air Lift<br>Bailing |                                       | PHOTOGR                       | APH II                     | DENTIFICATIO                   | NO.         | -<br>-<br>-     |
|              | SAMPLING DA<br>of Water R  | TA<br>emoval                     |                                       |                               | Was                        | s Well Pumpe                   | ed Dry7 Ye  | es No           |
| 3 Well       | Volumes                    | gal                              | \$                                    | Amount o                      | of Wate                    | r Removed f                    | rom Well    | gals            |
|              | FIELD ANALY<br>Temp        | SIS<br>*C Specific Co            | Inducta                               | nce                           | maicr                      | combos pH                      | Turbid      | ity             |
| Physics      | al Appearan                | ce                               |                                       |                               |                            |                                |             |                 |
| Remarks      | 8                          |                                  |                                       |                               |                            | <u> </u>                       |             |                 |
|              |                            |                                  |                                       |                               |                            |                                |             |                 |
| TIME         | Temp *C                    | <u>Conductivity</u>              | DH                                    | <u>NTUs</u>                   | <u>vi</u> ,                | Removed                        | Flow Rate   | DO ORP          |
| <u>155</u> 7 | Stant                      | Purging<br>442                   |                                       | 0,6                           | _                          |                                |             | <u>8.04</u> 278 |
| <u>(603</u>  | <u>16.8</u><br><u>15.5</u> | 429                              | 7 <u>.73</u><br>222                   | 0,0                           | —                          |                                |             | 8.49 271        |
| 1607<br>1611 | 15.5                       |                                  | 7.73                                  |                               |                            |                                |             | 8,13 273        |
| 1617         | 15.2                       | 429                              | 782                                   | 0                             | _                          |                                |             | 8.5 273         |
| 1619         | 15,2                       | 428                              | 7.7                                   | 0                             | _                          |                                |             | 8.5 274         |
| 1620         | (ollet                     | sangly .                         |                                       |                               | _                          |                                | <u></u>     |                 |
|              |                            |                                  |                                       |                               |                            |                                |             |                 |
|              |                            |                                  | _                                     |                               | -                          |                                |             |                 |
|              |                            |                                  |                                       |                               |                            |                                |             |                 |
|              |                            |                                  | —                                     |                               |                            |                                |             | <u> </u>        |
|              | <u> </u>                   | <del></del>                      |                                       |                               |                            | ·                              |             |                 |
|              | Nephelomet:<br>Water leve  | ric turbidity un<br>l            | it <b>s</b>                           |                               |                            |                                |             |                 |
| Checke       | ed By D                    | .\$                              |                                       |                               | <u></u>                    |                                | Date        | 9-26-00         |

|                                                                                                                    |                        | RING WELL                 |                       |                       |                                |
|--------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|-----------------------|-----------------------|--------------------------------|
| Project Number                                                                                                     |                        | et Name                   |                       | Date<br>09-23         | 2-00                           |
| Monitor Well Number<br>RW-05                                                                                       | Field                  | Investigato<br>Kyle Madde |                       |                       |                                |
| WELL DATA<br>INITIAL DEPTH                                                                                         | NT<br>Lift             | Well Volume               | (gals)<br>x=.163 gal/ | ft ( 2°, x=.6         | 53 gal/ft @ 4*                 |
| WATER SAMPLING DATA<br>Method of Water Removal                                                                     |                        | Wa                        | s Well Pumpe          | ed Dry7 Ye            | s No                           |
| 3 Well Volumes                                                                                                     |                        |                           |                       |                       |                                |
| FINAL FIELD ANALYSIS<br>Water Temp°C Sp<br>Physical Appearance<br>Remarks <u>1680 E. 4</u><br><u>+00K MS and a</u> | Clear<br>1+h - Havel r |                           |                       |                       |                                |
|                                                                                                                    | ctivity pH             | NTUS WL                   | Removed               | Flow Rate             | DO ORP                         |
| 1516 - studed top the                                                                                              |                        |                           |                       |                       |                                |
| <u>1521 16.19 45:</u><br>1526 16.06 44                                                                             |                        | -0.6                      |                       |                       | 7.57 <u>231.4</u><br>7.82 2353 |
|                                                                                                                    |                        | -0.5                      |                       |                       | 7.83 239.6                     |
|                                                                                                                    | 6 7.58                 | -0.4                      |                       |                       |                                |
|                                                                                                                    |                        |                           |                       |                       | 1.83 -48.1                     |
| 1536 15.86 45                                                                                                      |                        |                           |                       |                       | 7.85 248.1                     |
| 1536 15.86 45<br>1537 - 1 total (r sample                                                                          | - W-RW-05-             | 092200-P                  | ms und W              | -RW-05-04220          |                                |
| 1536 15.86 45<br>1537 - 1 total (r sample                                                                          | - W-RW-05-             | 092200-P                  | ms <u>und</u> w       | -R <u>w-05-0922</u> a |                                |
| 1536 15.86 45<br>1537 - 1 total (r sample                                                                          | - W-RW-05-             | 092200-P                  | ms <u>und</u> w       | -R <u>w-05-0922</u> a |                                |
| 1536 15.86 45<br>1537 - 1 total (r sample                                                                          | - W-RW-05-             | 092200-P                  | ms <u>und</u> w<br>   | -R <u>W-05-0922</u> 0 |                                |
| 1536 15.86 45<br>1537 - 1 total (r sample                                                                          | - W-RW-05-             | 092200-P                  | ms <u>und</u> w<br>   | -R <u>W-05-0922</u> 0 |                                |
| 1536 15.86 45<br>1537 - 1 tohl (r Sample                                                                           | - W-RW-05-             | 092200-P                  | ms <u>und</u> w       | -R <u>W-05-0922</u> 0 |                                |

| Black & Veatch Special Projects Corp.                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                             |           |                 | Page                         | l of (                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|------------------------------|------------------------------------------------------|
| MO                                                                                                                                                                                                                                                                                                                                                                         | NITORING V                                                                                                                                  | VELL      | $\mathbf{i}$    |                              |                                                      |
| DEVELOF                                                                                                                                                                                                                                                                                                                                                                    | PMENT/PURC                                                                                                                                  | GING      | DATA            |                              |                                                      |
| Project Number<br>46118                                                                                                                                                                                                                                                                                                                                                    | Project Name                                                                                                                                |           |                 | Date                         |                                                      |
| Monitor Well Number                                                                                                                                                                                                                                                                                                                                                        | Ace Serv<br>Field Invest                                                                                                                    |           |                 | 09-2                         | 2-00                                                 |
| 1940 E. 4 RW 06                                                                                                                                                                                                                                                                                                                                                            | Kyle                                                                                                                                        |           |                 |                              | _                                                    |
| WELL DATA                                                                                                                                                                                                                                                                                                                                                                  | •                                                                                                                                           |           |                 |                              |                                                      |
| INITIAL DEPTH <u>Desidence</u><br>Total Depth                                                                                                                                                                                                                                                                                                                              | Water C                                                                                                                                     | lume (;   | Height<br>gals) |                              | 653 gal/ft @ 4*                                      |
| Well Diameter                                                                                                                                                                                                                                                                                                                                                              | (x)(hei                                                                                                                                     | ght) :    | x=.163 gal/     | ft <b>(</b> 2*, <b>x</b> =.) | 653 gal/ft @ 4*                                      |
| METHOD OF WELL DEVELOPMENT                                                                                                                                                                                                                                                                                                                                                 | PHOTOGR                                                                                                                                     | APH ID    | ENTIFICATIO     | N NO.                        | Ţ                                                    |
| Pumping Air Lift<br>Surging Bailing                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                             |           |                 |                              | 1                                                    |
| WATER SAMPLING DATA                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                             |           |                 |                              | 1                                                    |
| Method of Water Removal                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                             | Was       | Well Pumpe      | d Dry7 Y                     | es No                                                |
| 3 Well Volumesgals                                                                                                                                                                                                                                                                                                                                                         | Amount o                                                                                                                                    | f Wate    | r Removed f     | rom Well                     | gals                                                 |
| FINAL FIELD ANALYSIS<br>Water Temp°C Specific Cor                                                                                                                                                                                                                                                                                                                          | nductance                                                                                                                                   | micr      | ombos oli       | Turbid                       | lity T                                               |
| Physical Appearance Clear                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                             |           | p               |                              |                                                      |
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                             |           |                 |                              |                                                      |
| Remarks 1940 East 4th - met                                                                                                                                                                                                                                                                                                                                                | zler Residence                                                                                                                              | e         |                 |                              | •                                                    |
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                             |           |                 |                              |                                                      |
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                             |           |                 |                              |                                                      |
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                             |           | Removed         | Flow Rate                    | DO ORP                                               |
| <u> (TIME Temp °C Conductivity<br/>1445 Started </u>                                                                                                                                                                                                                                                                                                                       | <u>ph ntus</u>                                                                                                                              | <u>WL</u> | Removed         | Flow Rate                    | DO ORP                                               |
| <u>Generativity</u><br>1445 <u>Stated</u><br>1450 <u>16.34</u> 496                                                                                                                                                                                                                                                                                                         | <u>pH NTUs</u><br>7.47 <u>11.3</u>                                                                                                          |           | Removed         | Flow Rate                    | 10.30 Kry.5                                          |
| Imme       Imme       Imme       C       Conductivity         1445       5ta-ted                                                                                                                                                                                                                                                                                           | <u>рН NTUs</u><br>7.47 <u>11.3</u><br>7.43 <u>4.4</u>                                                                                       |           | <u>Removed</u>  | Flow Rate                    | 10.30 184 5<br>8.96 191.6                            |
| STIME       Tepp •C       Conductivity         1445       5ta-ted                                                                                                                                                                                                                                                                                                          | <u>pH</u> <u>NTUs</u><br>7.47<br>1.43<br>7.48<br>2.9                                                                                        |           | <u>Removed</u>  | Flow Rate                    | 10-30 184.5<br>8.96 191.6<br>904 2069                |
| STIME       Tepp •C       Conductivity $1445$ $54a-4ed$                                                                                                                                                                                                                                                                                                                    | <u>pH</u> <u>NTUs</u><br>7.47<br>11.3<br>7.43<br>4.4<br>7.48<br>2.9<br>7.47<br>0.3                                                          |           | <u>Removed</u>  | Flow Rate                    | 10.30 184.5<br>8.96 191.6<br>9.04 2019<br>9.18 216.2 |
| 1445 $54a + ed$ $496$ $1450$ $1e.34$ $496$ $1455$ $1595$ $491$ $1500$ $15.49$ $485$ $1505$ $15.35$ $479$ $1500$ $15.35$ $484$                                                                                                                                                                                                                                              | <u>pH</u> <u>NTU</u><br>7.47<br>1.43<br><u>7.48</u><br><u>7.48</u><br><u>7.48</u><br><u>7.47</u><br><u>0.3</u><br><u>7.47</u><br><u>0.6</u> | 51<br>    |                 |                              | 10-30 184.5<br>8.96 191.6<br>904 2069                |
| STIME       Tepp •C       Conductivity $1445$ $54a-4ed$                                                                                                                                                                                                                                                                                                                    | <u>pH</u> <u>NTU</u><br>7.47<br>1.43<br><u>7.48</u><br><u>7.48</u><br><u>7.48</u><br><u>7.47</u><br><u>0.3</u><br><u>7.47</u><br><u>0.6</u> | 51<br>    |                 |                              | 10.30 184.5<br>8.96 191.6<br>9.04 2019<br>9.18 216.2 |
| 1445 $54a + ed$ $496$ $1450$ $1e.34$ $496$ $1455$ $1595$ $491$ $1500$ $15.49$ $485$ $1505$ $15.35$ $479$ $1500$ $15.35$ $484$                                                                                                                                                                                                                                              | <u>pH</u> <u>NTU</u><br>7.47<br>1.43<br><u>7.48</u><br><u>7.48</u><br><u>7.48</u><br><u>7.47</u><br><u>0.3</u><br><u>7.47</u><br><u>0.6</u> | 51<br>    |                 |                              | 10.30 184.5<br>8.96 191.6<br>9.04 2019<br>9.18 216.2 |
| 1445 $54a + ed$ $496$ $1450$ $1e.34$ $496$ $1455$ $1595$ $491$ $1500$ $15.49$ $485$ $1505$ $15.35$ $479$ $1500$ $15.35$ $484$                                                                                                                                                                                                                                              | <u>pH</u> <u>NTU</u><br>7.47<br>1.43<br><u>7.48</u><br><u>7.48</u><br><u>7.48</u><br><u>7.47</u><br><u>0.3</u><br><u>7.47</u><br><u>0.6</u> | 51<br>    |                 |                              | 10.30 184.5<br>8.96 191.6<br>9.04 2019<br>9.18 216.2 |
| 1445 $54a + ed$ $496$ $1450$ $1e.34$ $496$ $1455$ $1595$ $491$ $1500$ $15.49$ $485$ $1505$ $15.35$ $479$ $1500$ $15.35$ $484$                                                                                                                                                                                                                                              | <u>pH</u> <u>NTU</u><br>7.47<br>1.43<br><u>7.48</u><br><u>7.48</u><br><u>7.48</u><br><u>7.47</u><br><u>0.3</u><br><u>7.47</u><br><u>0.6</u> | 51<br>    |                 |                              | 10.30 184.5<br>8.96 191.6<br>9.04 2019<br>9.18 216.2 |
| STIME       Iepp °C       Conductivity         1445 $54a + ed$ 496         1450 $1e \cdot 34$ 496         1455 $1595$ 491         1500 $15.49$ 485         1505 $15.35$ 479         1510 $15.35$ 484         1510 $15.35$ $484$ 1510 $15.35$ $484$ 1510 $15.35$ $484$ 1510 $15.35$ $484$ 1510 $15.35$ $484$ 1510 $15.35$ $484$ $1510$ $15.35$ $1644$ $1500$ $15.35$ $1644$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                       | 51<br>    |                 |                              | 10.30 184.5<br>8.96 191.6<br>9.04 2019<br>9.18 216.2 |
| 1445 $54a + ed$ $496$ $1450$ $1e.34$ $496$ $1455$ $1595$ $491$ $1500$ $15.49$ $485$ $1505$ $15.35$ $479$ $1500$ $15.35$ $484$                                                                                                                                                                                                                                              | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                       | 51<br>    |                 |                              | 10.30 184.5<br>8.96 191.6<br>9.04 2019<br>9.18 216.2 |

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                                                                                                                                                                                                                                                         | cial Projects Cor                                                                                                                                                               | μ.                                                                                             |                                                                                                |                | Page          | l of                                                    |
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| Remark<br>(TIME<br>(630)<br>1641<br>(646)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Remark<br>(TIME<br>'630<br>1646<br>1646<br>1656<br>1656<br>1206                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Remark<br>(TIME<br>'630<br>1646<br>1646<br>1656<br>1656<br>1206                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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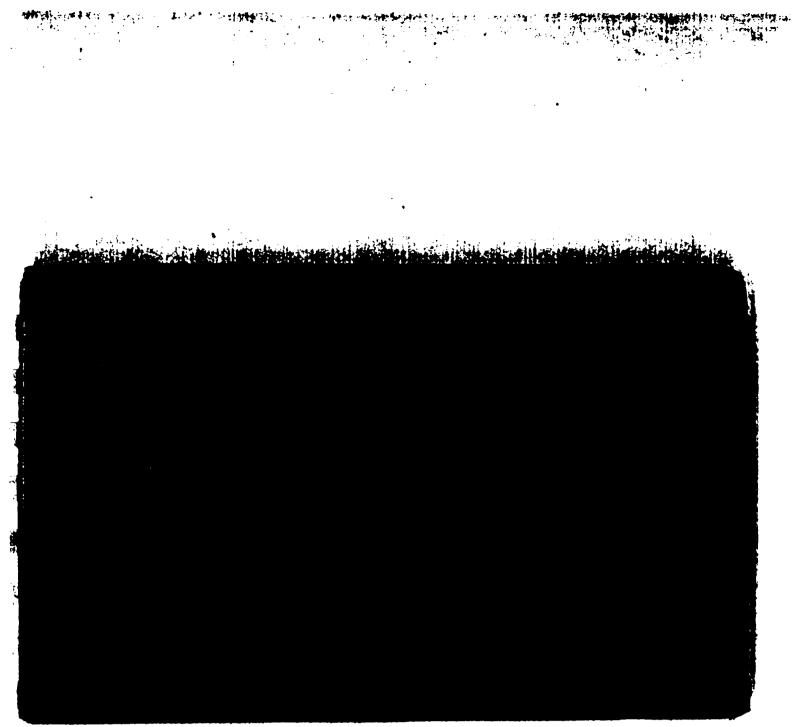
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| I                                                                                      |                                                                                                                | VELOPMENT<br>Air Lift<br>Bailing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 16.38<br>16.44<br>16.44<br>16.50<br>16.50<br>16.50<br>16.50<br>16.50<br>16.38<br>16.38 | 5+aut<br>15.66<br>15.7<br>15.7<br>15.7<br>15.7<br>15.2<br>15.2<br>15.2<br>15.2<br>15.2<br>15.2<br>15.2<br>15.2 | <u><u><u>Purping</u></u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u></u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u><u>351</u><br/><u>351</u><br/><u><u>351</u><br/><u>351</u><br/><u>351</u><br/><u><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</u><br/><u>351</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|                            | <u>2.0</u><br>O               |                         |                                |             | 9,10         | 264-          |

Appendix D Field Logbooks

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forteel 13 12 7-10-00 2/24/00 Vall Wooff UNITED PARCE Fre Shapmant back Weith: Sung 70°-90°s wind from NWW 0750 Aurice site, Alley marken to Vensor ALL Warder Jures are recorded on Saparale Water still of I, set will beeting lovel sheet. 0853 Dr. M. crewing John Mosier ... K. erry ... Reilley Mark Carter Crew enve site. Ut lities . out morking estilities D-Ill crier prepare to and 1040 Have dus mid with for EX-2-D live will drill EX-Z-D first Lind pit: 5 1059 Conduct suffity meeting. Highlights. indunal? - had had ? . - IFE to prevent contact wh - Dive water 105 begin dullin Ex-2-D 140 Reach total depth @ EX-2 -> (2) 7-40 Shill @ 233 1600 Finish rearing being to 12 dic. 1649 Still Alpahing Agricults from boring. Anny - Clark 7-10-00 1 1 1

**4**4 · Im fell 7-11-00 15 7-1000 1825 Still Fluiding burling and Winth Sinny 701 - 70's 1830 Starting to min. 0728 Arrive ett. Dr. 11 even pripary for day, Will fight geting EX+2-Dand dell EX-2-I. 1940 Lowering casing CO EX-2-D. 2010 Screen and casing set to 235 7774 0805 While Recording Circulation pit placing sand filter tor EX-2. I a phone line , ht (changing Begin raik. Dille que to phone company Local 2050 Have placed benton to chip Suscenses still live plans. More sent begin fronting 1 co. soups they will cull if proglam. grant hatrane 0857 Full vis onthe Ex-2-I. Have 2130 Have placed 3 tils quit \$ Ranvited pit for circulation. 2132 | Sucure site u/ continue tope (192) Bosh dulling @ Ex-2-I. 2135 Prill are a myself lui 1124 Have reached @ EX-2-I-u/ 7%" as bet Bigin to ream ste. to. 17'. 05. 1250 Go. by Dougharty Implement to see about proving two continus blocking access to well well well. Thet of Jay Wooth Jim Dougherty sind the coold move them 1330 (To by Max Endrees house of G+E Farms to see about access to the form field for wells prev-13+14 An Jehn 7-11-00

97 J-J S.llr 7-12-00 96 he would When Europe Days - • mu-7-5. allow siccoss it he raiected a youky payment. Update lost situat con 1430 Midney 1300 vis pulls off Ex.) - 4 Ex-2-1 cut 0-to EX-2-5 E7-7-D to stort dulling, Sineal my 013-1-5 BUT . pulls . outo Ex-2-I to 66.1set casing. 1520 Casin set to dard (195) @ 40. Hai Summi 703- 907 0740 from stander Dr. Mare there EX-2-I. rig cut equipart to decim Dulling Ex-12-5 up withing 02:13 Rig pells acto . O.B-1-D. 1030 Reach 240' on UB-1-D. of 518. 1600 Finish setting filts put + Lit Will now your to B" bentonite chip sealed FY-2-I. オ 645 Fruist reaming Loring to B" Argin Bazi Ho greating 拓 setting screen and rish for Esc. Have finish & left and flying 1858 OB-1-D. EX-2- S. Have also finital 1319 Sincer + Min set @ OB-1-D setting suren ad visit to proper Breght to place filter + seed. lenth !! 1400 Collect: 1915 Finishell placing I the put in S-IDWEX2-071200 barberly sod. The a to growthe 1500 Hove viz own to DB-1-5. Begin 3015 Site sourth. Finisher grapting . Ex-2 - 5, All 10. site dulling ... 1510 Gerry Bieker (city of Will) stops by. 1655 Read & total depth @ CB-1-3 w/ 8"00 From Jahn 7-12-00 i | | 1 ſ

99 7-13-00 A. - fall-7-12-00 GE. Usetta : 5 mm - 70 - 90's screen + 0745 Augre site Dillen anita le uill dull of OB-1-I today. reffing screen + visal Finish 1730 0615 Call Bob Stewert, Update on total could o POB-1-5. 1736 Relinquish soul south to 1003 Kan tota depth @ UB-1-I u/ UF.\$, 1028 Bit Flushing boring, begin lowormy. 1800 Finish placen seven filte pak, soul, a good @ 06-1-5 caring @ ... 06 - 11- I. ... Mare is onto OB-1-I. 1130 Finish grating well OB-1-I. Kig gow De Man repairing retur hose 1212 Finish docommy fill my onto on water rung. Have second site Locked 1919 0B-2-D. wells. All W. site. 1258 Bigit dulling OB-2-D 1350 Collect: 5- J.DWQB1 -071300 1351 Len Witt (17+1) anives site I dow key anoul site ... Ð 15 ... liled w/ Derm Bicka (coller) to discuss rended desys. Also disuss projet of Conden 1630 (so to county court have to get 1700 Drillin have set (18-2-D, TD 240 A - + Q2L 7-13-00 = 235 ch mys

7.13-00 Man fallen 101 Dj 1735 Deliver sough to LIPS for Windler Jun-74-50. OTHO Arrive stand Ken houth Do Han shpmat dult; 08-2- 5 41 01: 2.5. 1807 Ris mout our to OB-2-I. Site second A-11 IV. site. (2001 Gr. to Are Services Sullis in the inspect for use in firedment slat. 0730 No. one shored up to let us .. 19 Martin Shop was the potsick weasurements and closer pas 1010 Carlibrate YSE Mater (pH + 2)2.7 102.3. 110,55 With loved 1415 @ EX-2-D. We set of to clouder EX-2-D. D. Man setting file @ OB-2-I. 149 Finish sotting OB-2-I. Ris puls our -b 0P-2-5, 133 Start pumping EX-2-D @ 75 gpm 1512 Finish davdop my EX-2-D 1520 Epiceur sol verios for IDW Son EX-2. Kesplts = 3.7 milks, total Consider & less the - 1.0 mply a 1550 Dillen finish setting and gooting 1554 10/1et. 5-IDWUB2-071400 1 { 1 1 1 1

ſ

101- A-7 Sth 7-14-00 A- fell- 7-15-00 103 Er er fin ' Sunny 10'- 90's 110.8163 WL @ EX-2-5 prior 1620 1640 Begin purping Ex-2-5. 1800 Stop purping for deg. Secure ster 080 America ste, U. Hen starting PU Mint EX-2-5 E 0010 17/150 setting of to purp 03-2-D. 0850 Calibrick pH Von by Consulting. calibertion. OT13 Start developing OB-2-D. (47 WL ID • • • • • • • • • • • • • • • • 08-1-5 112.15 BC, 5 130 .0B-1-I . 111.45 OB-1-D. 113.82', 195' 235 108.80 03-2-> 10 0B--7 I 192 107.90 purpose pile in the 235 00 -2-D Ex-2-5. 116,50 pumpiling (215.7grm.) Ex-2 I 110,95' Ex-2 - > 112,65' 195 235 10:74 Stor puppin EX-2-S 1325 Stat developint @ DB-2-D 1820 Stat development @ DB-2-D 1645 Finish doubynt @ EX-2-I 1705 Site securel all leave sites

In tell 10 5 7-18-00 1,001 7-17-00 104 Winn: (forthe / rany 60.70's Arrive site. Levill clean Wenter Sunn 60- 90's 0740 epe, the develop with will. 0740 Arrive site Rig still stack Dully pully fire. toon Inflor trying to pull out of other trucks. Ex-1-I. 0850 Set of to develop OB-2-I U815 Get is at al fill and 6B-1-D, Bl Check Entretion of YSI note (.pH). 0830 Palibute SC and veritige 1H. Kaining hand. 0915 Begin purping OB-1-D. start purping @ CB-2-I. 0920 1055 Finish Randoping OB-2-J. 1126 Finish developing DB-1-D. Dr. llore, pull pump Dillow so devon and set of on 1130 It's been mining had all OB-1-5 horning Rig is stuck, quite a bit of runoffs stating to 1300 Start purring @ OB-1-S. 1441, Finish developing OB-1-5. Dutter develop. Will serve site and quit for day. breachdown to so decon. 1157 Quit tor day due to rain, 1520 Kiz pulls onto OB-2-5 to develop. 1540 Start FUMPIN OB-2-5. 1737 Finish developing OB-2-S. 1306 Secure str. All 14. to day. 1 1 1 1 

Any Jelh 107 7-31-00 105 Im Sel 7-19-00 1600 Arrive site of Deston Marlow (Bor). Remind Duston Weather: Clouder 60-70's. Ramel hand last night. Marlow to vemin in exclusion. 0740 Arrive site Drillene getting zone. ready to develop well OB-I-I. Rom Shipley w/ Wortha Porp DR40 Varty sc . pH calibudion. 0910 Stand pumpins OF-1-I. onsite. Review site procedure up Ron. Dyston + I set up 1100 Fin & durioping OB1-IL. 1239 Site seconde Cottings test Non-hazandous. Dellan will smanl to portorm pump. test. 2213 Have set transducers well Ex-2 ml hv-r, to ground. Au ste for K.C. Recorden is running, Have measured log the tor transducen in wells. 0.0-1 and OB-2 2330 Duston IUS site I while collecting steady state data. 2400 Continued 8-1-00

A-7 fan 6-1-00 108 A-1-00 18-1-00 109 1818 MW-6-D 0000 Onity to ounse recorde measuring strain state data at wells EX-2 and hiw-9 Wh = 106, 42 ' 170c. 1825 Lown Levelossa probe to 110 brac O 174-6-D. E235 Coby Police stop by. 1904 Chuch flow with @ EX-2-A I I intown them what we are doing out that Gerny Lu site ton day. Bekn. knows. that we me Daton will be prite till 73:00. potorning primp tests. Woother purp watch 23:00 - 7000 The police say OK all leave site. 0651 Duston ansives site Continne setting of othe channel boy. ! Check recorder which is running .. Rom styley (Whatter) amore site. 0754 0954 Have finished setting up Hourit recorded and stat Stop testi 1400 Begin pumping: EX-2"D. 1605 Petvin to hotel to program buckground Levelloggery, 1807 : mw-7-D W.L. 120.01 ft bilow TOL J----- 8-1-00

Am fell 8-3-00 110 8-2.00 111 Weathar PHY (louchy - Sunny, 60:7.90°s. 0700 site Darren 0654 Arrive site Darren of woother Wootta onsita He pump foul 0701 EX-2-D. purping @ 105 gpm 0 105 0710 10 Sapa 0830 Ex 2. D. pumping. @. 10.5 gpm. 0927 1045 EX-2-D prog @ 105 gpm .. 105 rite 0 1029 fump 1156 Duston Michlow (B+6) anos additiond 100 Sa mel sche tron Discus In treaterilly study uf Ken site. 1430 Lu sita. Desta proste Wyatti ----1837 Avive site Relieve Dustan Talk to 1120 54 12 Jan dro t Guslyses, FAX toon wasist parameter request Staggs @ Stu Labs. te of Duston fon 1930 Call Jay Watter. Array. scherhle Randy Refum to for tomorrow, 44.2 1200 W/ Wouth airte Suon 1100 2006 EX-2-D. putring @ 105 gra 1100 1= 1200. 1250 Darren et Wooffer Rump anice 1416 106.71' site, I. lut. 6TOC τ Ō 1425 mw-7-D W,L, 120,19' 2 172 purp inte @ 1454 EX-2-D 105 Jpm Bob Struct (EPA) (all 1531 .<sub>0</sub>0 update ste for des Duston @ 1900 Lv. site

1

8-5-00 13 122 8-4-00 112 1155 Arose site, Duston orvite. 0755 A .... site Rister one the 1259 Mann WL. @ MW-6-I 0800. Collect Sall 5 104. 74' broc 1 GW-EX2-D-080400-F high wange Crt field test 1500 Duston lus site 1510 Parm @ Ex-2-I × 1.5 mg/L 1042 Acrive RW-6 (Metzler) 1109 Propin & Ex-2-I 185 gpn Besin pursing. 1830 Punin & Ex-2-I 185 gpm Collect 1100 GW-RW6-080400-P 2|50 Kingin @ EX-2-1 Whether purp anive to fall 200 . 185 gpm al set in Er-J-I. 1529 500 Lu. site after usothe pure +. WL, 10 MW-6+D 106, 13' LTOC Well employee an in 10-1536 WL @ MW-6-I = 104.54 broc 1600 Move + ret Levelogn MW+ 6-I 2032 Runging EX-2-I @ 185 gpm 2305 Lu. site lafta 6milly

8-6-00 flen 115 114 8-7-00 Lea . Durton outr 1120 1200 Arvine site Durton Are: 6.74 EX2-I-080000-P + Et for C \*\* 104.73' STOC 1316 W.L. 1130 (0 led GW 1600 site. Ir. Field test Lit Duston Pu-p: EX-2-1 @ = >4.5 mg/4 (4/ dilution) Ø 1057 Runping @ 185 spm 1300 Relinquist. some to ... hotel .. EX-2-I 0 Fel Er like up. 1332 WL. O 4W-6-I 2300 Darren of Woofty Pury + 1350 Wooth Pung (Kon shipe, Well anives. If lui site annie site to jul will from EX-2-I and sof & from pump in EK2-S. 1600 Bug + test pupp. @ 30.51-1630 Reduce flow the 20 gpm 1700 Du, ton Ju site 2335 Darron anites ster I IV.  $\mathcal{O}$ 

An fall 8-8-00 Am fel 18 3-900 11> 116 Avrite site Duston is 1330 WL. @ mW-6-I 1200 Take up Sellors Turador (14. Le (785) 462-2321 John 104 74 1230 Johnson) 1730 Duston In Site. about supplying with They and OK. Will tell more tomourper. Pick-up Feel Ex pulyer. 2240 Danna annes site I loave 1405 Pick-up 1430, Dillins ih min ·UPS. 1 "JOD Duston 1/2 site 2240 L. site aftr Wolfn Pump anice Ste. 1 1 1 I I 1 1

119 118 fill Sill 9-18-00 8-10-00 A. Alleine Art. stedior und. Arrive site. Dyster oute. 0801 07.50 Kyle, Mr. deleri A.L. Walt Worth (bV) ander site 0805 0840 Pingling @ Min 12 S MW-12-I. Min Mis - 1 OB10 Collect Vial . comit site Could H+S meeting. GW-EX2-5-081000-P 0830 Crev #1 purning from 144-12-I. Field Cr \* measurement = Crew "2 panying for mu-12-3. 0.8 mg/L (2. a/chlution) W.L. @ 4-6-1 1140 1010 Collect ..... W-MW-12-I-011800-F 104.77 1027 Cuent 1 pett pire so decon. Level Losson PLI 1100 WL MW+ 11- I = 120.05' 12:00 Site clearly and wells (ven 1. 0. www-11-I serve. Dry off Doxes for 1.51 Callert shipment O Comfat W-mW-11-I :091800- P B Lin UPS, for-Stever of EIA 1330 Call Bol Dill un pull purp. t. m. and vodet 5 progress, 1235 Willet rinsate 1345 Sv laboratory (all to confirm W-MW-11-5-011800-R sigh regist. Sample recieved or. 1300 Workey. D. 44+11-2. 1400 Head TI- KC, MO 12 0 40-7-I hen! mw+5-I 1355 Callet W-MW-11-5-091800-P D-11m so dest. 14/4/2, WA 105131 0 munt2 10W-2-D 2---- File 9-18-00

121 Am all 9-18-00 9-19-00 120 An, talk 60-00'1 8750 Arice PWSW # 8, Pupp 145B Pumpty @ 44-2-D @ 1540 Collect W- MW- Z-D-0918(C-P 0205 ( hibiote , conduct on the 1600 Gen!" | pulling fire + 0825 City not live yet heres #2 renty to go. (all city. soing to decou 1606 Cren 2 pull onto MW-2+0I They bight into re in way. 0837 City realized power miles is 16 54 Start purpi @ EX-2-D 1800 Kelingish samle to blown out onlinelly have to UPS' replace. We sample Ex-2-I ~ ( ... 1) return 10 Phis -8 FIDD Finish collect learning of site, setting supplies, and tri. 0845 Aurire @ EX-2-I, hu.L. 110, 89' pregain for towner way. 0955 Collect W-EX-2-I-091900-P 1012 Ketur to Plus-B. (01.) W-PW5-8-091900-P 1111 1203 Tiller denn 1203 Tiller 4/2 0 EA-2 111.67 Collet. 1315 W-EX-2-5-091900-F P-ill n go decon 1350 WL. Q. MW-9-5= 111 18 A- Jelli 9-19.00

A-Jeb 9-20-00 123 9-19-00 la 122 40:- 60's Rein land - sht. 1415 Stat pumping my-9-5 0300 Averile site Prepare to day. (olect 1450 113.32 W.L. @ WL-7-6 0855 w-mw-9-5-091900-P 08 20 Verily rdi hadion at pH. w-mw-9-5-091900-D and conductive to Update Bab Stand (EAV) 5.11:2 15 gal, 6 Start 1510 0910 (ollest for shipment to drums W-MW-9-D-092000-P Samo Tech ton Ion Exchange D-illen 50 recon W.L. O 194-12-D = 144.87' treckelilly St-day. 6949 W.L. O. E. 1045 Collet. Collect . 1600 WIX-TS-1-091900-P W-MW-12-D-092000-P Pumping MW-9-I Stat 1615 w-mw-12-D-092000-D sank 75 15 IX+ 1626 Driller 50 decon WL, @ HPMW-6-5 = 105.41 field, test 650 mg/L 125 1655 Collect Start purpin HPMW-6-5 W-MW-9-I-071900-P 1140 WL, OHPMU-3->= 105.01. 1800 Relinquish sample to UPS 1144 W.L. @ HPMW-12-5-107.41 1152 1815 Source site. 1225 W-HPMH'-6-5-000-F -ms - 413D Dillon in decon.... 1405 Collect W-HPMW-9-5-092000-P 1-7 9-20-00

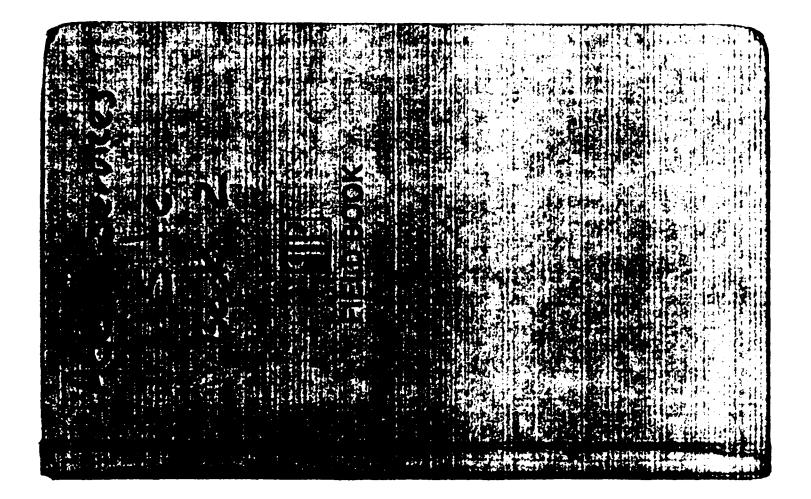
Am Ille 9-20-00 Sell 7-21-00 124 125 71430 1430 Anites Elverting: Sunny: 50 - 80' WINDY' Well MW-10-P is DRY UTSS Arrive site. 1447 W.L. @ mw-8-5 = 108,28 0806 WL. O.m. 8-D. = 10776. 1505 (ollest 0820 Calibrita meter for concernent W-ACE-R. -052000-R and p.H. Court 2 hour to (Konsate from Gen "2) 0905 Collit 1540, Collect: w-mw-8-D-01-100-P. W-MW-8-5-092000-P W-MW-8-D-012100-D Dullen decon miller decor 1606 WL @ WW-8- = 107.75' 0944 W.L. O + +++++== 11-D 1655 (ollect - 122.37 W-MW-8-I-092000-P 1035 (offect Dillon decon w-mw-11-D-092100-P Bain sing management. Drithen 50 decon. 1120 W.L. C. mw-5-D - 103,20' 1800 Relinquist sample to Urs shipment. 1205 Stet. 1847 Finish security site at yelling W-MW-5-D-092100-P . supplies, 1240 WL. @ My-5- = 100, 49 1350 (ollat ..... W-MH1 5- I - 092100 -P Driller so den W. (. 0 mm - 5 3= 100.51' 1411 1440 Stut jumping mu-5-7 7-21.20

1, ph 9-22.00 127 I --- , felh 176 9-21-00 1510 Collect 11-1Ln 50 W-mw-5-15-092100-1 6755 W-MW-5-15-092160-D in the state of the state of the 2. amilion little Kierth Rob Du Have decon 09.6.5. Ly .. condunt in its. W.L. @ OB-1-D = 113, 22 US15 . Va. 1600 Collect (alinition 1650 W-08- 1-D-02100-P 0875 W.L. O. MW-7-D= Dr. llon decon 117,71 0925 (olloct Collect 1715 u-mw-7-D-09.2200-P A State And Alex W-MV-7-D-092200-D. 2.11. W-DB-1-D-092100-R Relinquist sander to 18:00 UPS Sile secure w-mw-7-5-072200-P. dully down 116 4 L. @ 44-3-D= 10491 1210 (allect w-mw-3-D-092200 - P. Dilla decon. ..... 1336 A Calibrick. war. lavel neles to real the same 1340 [gllent: . Water levels. 1450 Amie .. Vap . residence and start pursing Mus. Vop says house next door of same well, 1745 E 4th (Ketchum) 1510 Collect W-RW-21 092200 -P Loll 9-12-00

12B De Selle 9-22-100 1538 Spoke of perior & Social insidence one place. Reason and mr. Sourcers would better on Sinday and could talk of him then, But could not give permission 1545 , (ollect. W-RW-3-071200-P . 1600 At RW-4 (1745 E4th) 1620 Collect w-RW-4-092200-P 1635 Arrive RW-8. Mr. S. H. said to go ahard and sample often property also. RW+9 (2580 E. 474) own filly, + Mirs, Mike Smith 1008 County Roal 21 (Cplsy, Kis 67701 1650 (ollest 1800 Relinguist synch to UPS.

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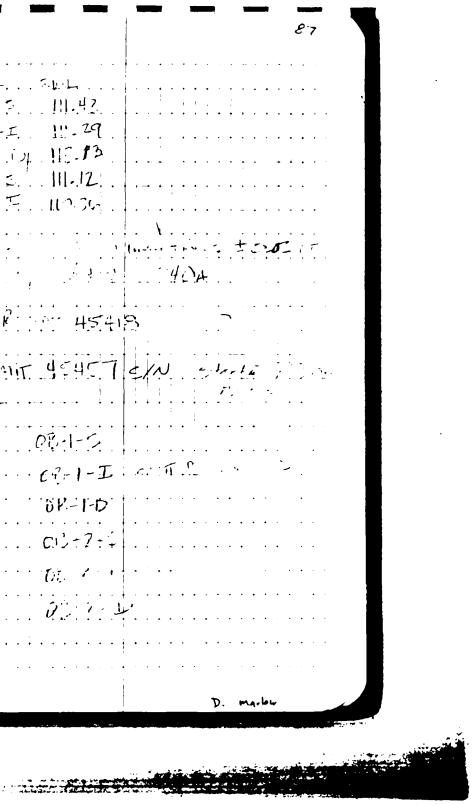


| By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10         |
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| 1. · · · L 111.25 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |
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| 12E-1-5, 111.7.7 . W 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |
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| [turi. | · · · · · · · | 1- 1  | [x-2-1) |                                               | and the |                                         |                                       |
| 10.00  | -1.805        |       |         |                                               |         | 46.5                                    | 2                                     |
|        | 14,4          | 0.08  | 1.3     | 21.0                                          | 29.7    | 45.6 3.2                                |                                       |
|        | 14.6          | 0.7}  | 1.3     | 21.0                                          | 200     | 49-1 3.2                                | 2.7-                                  |
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|        | 11.4          | 0.1   | 1.25    |                                               | 30.0    | 4 · · · · · · · · · · · · · · · · · · · | 2.1                                   |
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|        | ้เราซั _      | · -   | j '     | 21.1                                          | 36,0    | 44,5 2.7                                | 2.1                                   |
|        | 6.7           | 1:3   | 1.2     | 21-                                           | 38.5    | 495 Z.h.                                | 2.0                                   |
| Hit!   | 12.8          | 1.3   | 1.2     |                                               | 37.3    | 42.5 2.6                                | 2.0                                   |
|        | 15.2          | 1.3   | 1.2     | 21.7                                          |         | 49.4 2.6                                | Zw                                    |
|        | 16.5          | 1.3   | CHIP    | 1.5                                           | 1.17    | 49.4 2.5                                | . 7.0                                 |
|        | 14.7          | 1.5   | (12:01) | -1.1                                          | 59.8    | ia - 2.5                                |                                       |
|        | 17.3          | 1.3   | 141     | 21.7.                                         | - : 9   | 49.3 2.4                                | 2.0                                   |
|        | 17.2          | 1.3   | 1.15    | - 1                                           | 5 ].6,  | 9.3 24                                  | 7,0                                   |
|        | 16.9          | 1.3   | 1.18    |                                               | 7.3     | 月二 (15) 24                              | L. Z. P. L. S. L. L. L. L. L. L.      |
|        | 17.0          | 1.3   | 110     | 23                                            | HO.1    | p.9 Z.4                                 | 2,0                                   |
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|        | 17.1          | 1.7   | 2.3     | 29.9                                          | 40.0    | 35 23                                   |                                       |
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|        | Í             | 1.7   | 20.9    | 29.5                                          | 4D.6    | 22                                      | 1.9 (14:07)                           |
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|        | i             | 1     | r<br>I  |                                               | i<br>I  |                                         | D. Mailey                             |

| 12                 | 1             |           | ł        | 1              | 1x2J                                   | (i              |
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| V,                 |               |           | NT       |                | 15                                     | 112.4-1         |
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| 44,88         | 46.41        | 46.5      | 44.5%                                 | 47.30 | 477          |
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| ųų <b>,91</b> | 46.75        | 445       | 36 }                                  | 47.11 |              |
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| 13-6          | 46.53        | 44.50     | 47.61                                 | 4775  | 199 46.4     |
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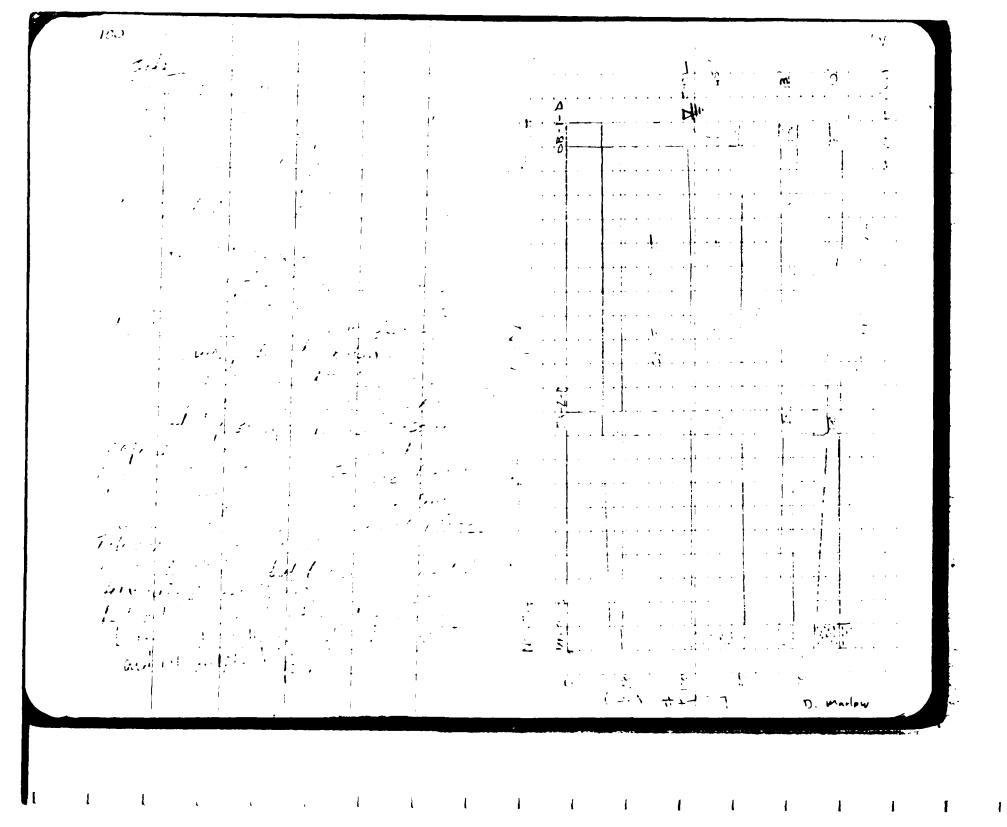
95 1167-440.3 1232 46.7 HIL - 464 1997-46 1-3-4-3:00p-5:007 Pot Data for Constant Pate Test 5:30-11:00, At Site monitoing pump test Tent #1 Background MW-9-D 7-31-00 -0.00] 20.49 0.0 -0.001 0.0 -0.001 0.0 -0.001 0.0 -0.003 0.00 - 0.001 0.0 00 -0.001 -0.003 0,001 -0.003 0.003 - 0.001 0.004 D. Marlow

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|------------|----------------------|-------|-------|-------|-----------|---------------------------------------------------------------|
| 0.003 .6.  | 30 0064              | 6.97  | 0.129 | 0.158 | 43.38     | 0.184 .204 .232 .275 .329                                     |
| 0.006 0.   |                      |       |       |       |           | .184 .207 .230 .255 44.527                                    |
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| .001 ,0.0  | 36 0.069             | 0.103 | 0.135 | 0.161 |           | ·187 .208 .234 .255 .321                                      |
| 0.009 0.1  | 38 0.071             | B-104 | 0.136 | 0.162 |           | , 18B .21 .256 .314                                           |
| 0.0A .0.1  | 0.072                | 0.106 | 0.137 | 0.162 |           | ,190, ,211, ,236, .758, sat                                   |
| 0.010 0.1  | >41 0.013            | 0.106 | 0.137 | 0.164 |           | ,190 .ZII .ZJI .ZJ .Z59 5A .Z91                               |
| 0.012 0.0  | 42 0.015             | 0.107 | 0.139 | 0.165 |           | 192 .213 .231 toon .261 .276                                  |
|            | 170.077              |       | •     | ,     |           | 192 .214 .239 Wais .266 .261                                  |
| 0.013 0.1  | 43 0.078             | 0.110 | 01+2  | 0.164 |           | .194 .214 .246 .246                                           |
| 0.014 0.1  |                      |       | •     |       |           | .144 .216 .212 .289 .23                                       |
|            | 46 0.081             |       |       |       |           | .195                                                          |
| ,016 ,0.0  | 48 2012              | 0.114 | D. 45 | 0169  | . <b></b> | . 195 . 219 . 242                                             |
|            | t9 0.0B4             | •     | 0.146 | 6.171 |           | ·197219 .243 .2004 .297 .184                                  |
|            | 51 0.0 <del>81</del> |       | .0.46 |       |           | ,19B .220 .243 .502 .17                                       |
|            | 52 0.084             |       |       |       |           | ,198 ,20 ,297 .310 .15                                        |
| 0.022 .0.0 |                      |       |       |       |           | 100 .224 .24 .513 .H                                          |
|            | 55 0.087             |       |       |       |           | ,201 .224 .244 .317 -13                                       |
|            | 56 0.088             |       |       |       |           | .201 .226 . 249 3:004 .320 7A .114                            |
|            | 58 0.090             |       |       |       | •         | .201 .226 .247 .323 .101                                      |
|            | 59 0.090             |       |       |       |           | .203 .227 .250 .524 .093                                      |
|            | 6 0.093              |       |       |       | BILLOD    | .203 , $.229$ , $.252$ . $.526$ . $.684$                      |
|            | 2 0.014              |       |       |       | 12:01 4   | .04 .2 <sup>29</sup> .252 .327 .78<br>.204 .129 .253 .329 .78 |
| .001 .0.0  | 0.096                | 0.121 | 0.156 | .182  |           |                                                               |
|            | I                    | 1     | . I   |       |           | D. Marba                                                      |
| -          |                      |       |       |       | •         |                                                               |
|            |                      |       |       |       |           |                                                               |
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| 93                   |             |        |             |             |   |                                       |
|----------------------|-------------|--------|-------------|-------------|---|---------------------------------------|
| BA.                  | 0.084       | ]<br>  | •           | •           |   | EX-Z-D KIS                            |
|                      | 0.088       | 1      |             | ↓ .         |   | 15                                    |
|                      | 0.094       | <br>•  | ļ           |             | 1 | 5                                     |
|                      | 0.106       | •      |             | ļ           |   | · · · · · · · · · · · · · · · · · · · |
|                      | . 111       |        | ļ           | •           |   |                                       |
|                      | -113        | t<br>4 | •           | <br>• .     | • | ••••                                  |
| 800-                 | # 2100      | 1      | Dist.       | <br>        |   | Ex-2-D + 30                           |
| 800p                 | 1           | 1      | Dist.<br>FT |             |   | 30                                    |
| MW9-5                |             | 0.161  | 65<br>50    |             |   | k                                     |
| 1110 9-I<br>1110 9-D |             | 0.656  | 40          |             |   | ¢                                     |
|                      | 1345        | 8.118  | 30          | ĺ           |   | •                                     |
| Ex-2-5               |             | 1.119  | 15          |             |   | · · ·                                 |
| Ex. 2.P              |             | 46.445 | 0           |             |   |                                       |
| 08-1-5               |             | 0,272  | 15          | ······      |   | ilus Enso                             |
| 0B-1-D               |             | 6.692  | 12.5        | . 1         |   | 1kg = E2-7<br>Broy - 11:0             |
| 0B-2-5               | , †         | 0.186  | 62.5        | 1           |   |                                       |
| 0B-2-I               | <br> <br> • | 0.436  | 68          | 1           |   | 11:00 1 10 5                          |
| 0B-2-D               |             | 6.188  | 15          |             |   | 16 0                                  |
| -                    | <br>        |        |             | A           | 5 | ki i D                                |
| Ex-Z.D               | 40          | Nu19-D |             | B           |   |                                       |
| 4                    |             | 2.5    |             | 6           | 1 |                                       |
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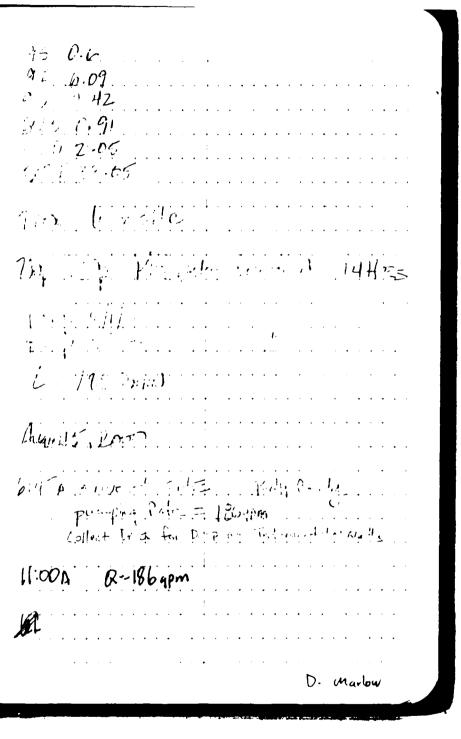
45 Ex-2-I\_ . .LZ -- nw-9-I 0.6 50 -> 08-2-I. 0.44 68 · · · · · · · · · · · · · · · . . . **. . . .** . . AS - OB-Z-S 0.19 62.5 + mw-9-5 0.16 **65** 75 -> 0B-1-5 0.27 ishes DD plat Tinkgrand Teals We box Channel for the formation T-3.4-144 MARD .... · • • D. Marlow



|                                                                                    | (.);/_                                                                   |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 10hr = 600 n<br>5hrs = 300 n<br>1hr = 60 n<br>$w \cdot 11 + 20 n$<br>Ex-2 - T = pr |                                                                          |
| Need to Switch                                                                     |                                                                          |
| · · · · · · · · · · · · · · · · · · ·                                              |                                                                          |
| Tir-1 0]                                                                           | R:=== 106 0,-11                                                          |
|                                                                                    | in the inter inters                                                      |
| 2:00p in hole                                                                      | 1 Sump and what                                                          |
| Rohe 5 - Er<br>Protecto - K                                                        | (0:451 Annue 1 91.<br>pumping Rate 106 and<br>7:000 Ex-2.0 46.714 Unizon |
| (tirl Herm                                                                         | 7:484 Take water samples for Analysis                                    |
| fex-2-5                                                                            | B:004 pump hund off<br>Let Rower Hill 12:00p                             |
| 450418                                                                             | More primp to Ex-Z-I                                                     |
|                                                                                    |                                                                          |

,0% 16hrs 10min = 1000 min min mi s. y.s. Logerale or sump the st Longest interval @ 1000min . . . . . . Trounducers in EX-Z-D & EX-Z-I Juil Suit 110.0 110.33 HO.D. . . . . . . . . . . .  $\mathcal{P}^{(n)}(\mathcal{P}) = \mathcal{P}^{(n)}(\mathcal{P}) + \mathcal{P}^{(n)}(\mathcal{P})$ Ex-2-I w/ pump EX-2-D EX-2-I million (188) 778/5 13.7' Á Stort pump @ 2:25p 50gs//min 8 gAl

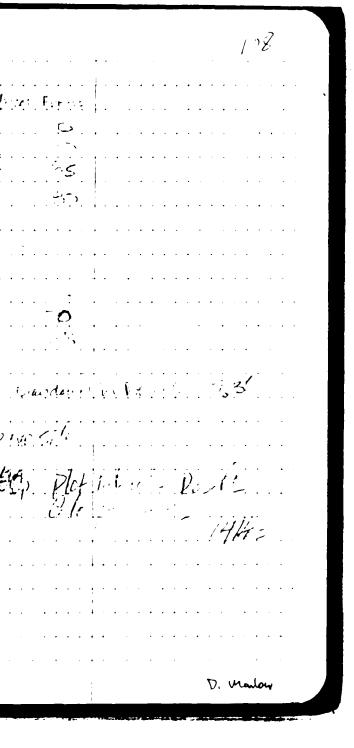
2:25 50 gal/min D 5 4: 0.09 13.7 1209 2:400 100 gal/min 60.7 13.5 1.2.05 1.2.052:55p 150 188 1.1 Ft Hands-Houm F37, #. 75,0.5 10 45419 7:31,60 Trop ( y de C # Ex25 0.77 #5 1.825 0.77 #5 1.875 1.99 #6 Ex27, 53.5 i Has Driver H-000 EX-2-I 2005 - 15-5 - 1 - 1 + 1 August 2007 5:15p First Puli = 196 11:00A R--186 ypm JA. . . . . . i L



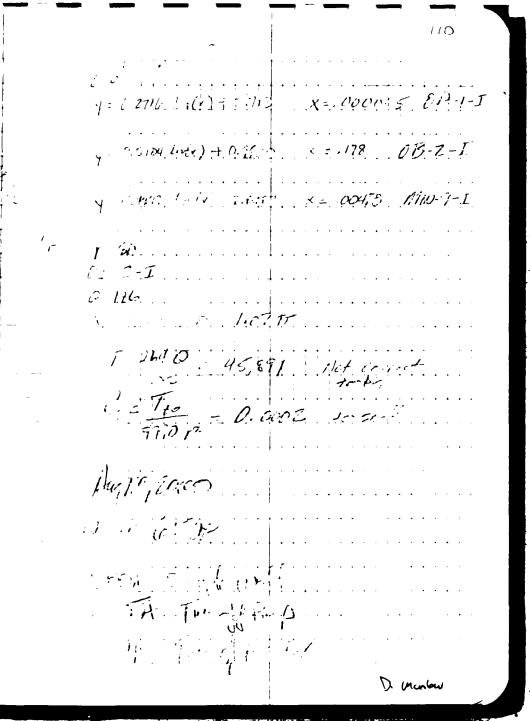
l l l l i i i l i

Aug 7, ZOOO Appliced Site @ 6: 201 3:30p leave site 3:30 p-6:50 Plotup Tinu DrAndom Darta 6:30 \$ 830 pt site Review Darta- 14/10 August 6,2000 Q = 184 gpm G: 450 ARLive at site Guarje 577-1212 Q- 186 gpm That Four word a second a second 11:57 A Celle 1 De Con Ex-Z-I Will plat la field ulater back, Entre externation · Tom white fact, and a company with 1 . . . . leave sike @ Hill p at three and a me - gas office -4:20-7:30p Plit Data for Ex-2-I NOO, pull para ?. 21-7 3 New Plots by Deep Aquiler 3:22 Intel Transition State up 13ARS D. Munlow

| 107   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |
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| 40    | TEES RALLE T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Smpinte Dr.                           |
| 4     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 私の 7-エ<br>マルモリール                    |
|       | Q=20 - 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |
|       | 1.2-2-2 7.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
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|       | -1-2: AND AND AND AND AND AND AND AND AND AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |
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| •     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1. 1. 10 La                           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 · 18 -                              |
| 9.15A | All well be two - (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | · · · · ·                             |
|       | $\rho_{2} = \frac{1}{2} \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} + \frac{1}{2} \right] \left[ \frac{1}{2} +$ | · · · · · · · · · · · · · · · · · · · |
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- 17 5. 1 1 200 - 11 51- -Q- 200, 11 1 L: 2- 5 7 457 Perlamon () 12 - Grand Apple 1 - Contractor 12 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 1 - Contractor 'r  $\frac{1}{2} = \frac{1}{2} = \frac{1}$ @ 116 ... N. 1.07 1.417- Tex-2-To open 10 07- Life Sile 6 27 Hur 1. F. Eason laso He 1 2-5 des Laso He 1 2 11 Fintos Cingle 1 kd-2-I det. 1 1 6 m 13 hRs



Calibrated Ph to 70 Schulian Culibrated constructivity to 1000 pr.S/cm Solution :11 11Z 10:150 Frank - 12 Diro on site of well site MW-12 08:20 MW12-I depth 143.42 19900 muliz-s depts 143.07 6 gei 151112 Ex w. lit 11. Jun 11. J 15457 Otilipel. 1012 Otherted pumping 1019 water rate # 11/min 1034 W-MW-12-5-091800-9 collected for total Cr and Cr VI 11:30A Peter to othe time in the legent Turners & to 1105 15 gal folketed and placed into large collection uessel for treatedoiling. 1125 - arrived at well MW-7-I depth to water = 116.65 1000 lines site 1134 sturied pumping water - rate adjusted to 1.1 L/min . W-MW-7-I-091800-P 160H1E= W-MW-7-I-091800-P 160H1E= W-MW-7-I-091800-MS 160H1E= > ibottie= tob total Cr. W-MW-7-I -09K00-MSD) 12:20-1248 - collected BO gallous. placed in large collection vessel for treatability Study Well # MW.5-I @ 1350 1400 mers und well at 100.56 feet 1407 Sturted pumping - adjusted. to 1.0 4/min 1416 - Starting monitoring water depth woa 100.56 K. maaaan b. Marton Trander

39/19/00 JUB OB15 Calbrided ph probe with ph 7 Solution Cal-brided conductivity probe with resources kin solution 1433 = ~ 1440; Lost prime on pum C9-19-07 1 108001 01 Site = 441 10 000 + 444 restarted & adjust of 1 L/Min 6230 - cure get distilled water . ern. 1503 collected 2 (cris total cr) sumplie 0845. On site at wells MW-1-5 D. Inbeled W-Mul-5-I-01100'-P 0900 - Depthriat . 106.56 1505 -1516 collected 30 gallons for C910- pumping Started - flow adjusted I treatability Study to. 1.0. 1/min. 1600 + MWR-I - tested 0918 readings Started For depth of water @102.80 0953 collected I water Sample 1606 - Sturted pumping, adjusted W-MW-1-D-091900-P (total Gr) to - LO LIMIN 1030 sampon Well MW-1-S. 1614 - Started to take readings depth to water = 107,00 feet. 1646 = kollected \_ 2 water Samples KHO - started purping - adjusted to -104/min W-MW-2-I -091800-P-16- 1001, 11 Cr6 NSI- started monitoris 1740 preparation of log / shipping 1129 collected. I water Sample. 1750 - to shipping JUBS W-mu-1-S-09A00-P (total c). 1140 - measured Depth to water at 107.07. for ... WellHW-1-I 1147 - Pumping Started- Flan rate adjusted to 1.0 4/m 151 monitoring. Started. 12391 Water Sample collected W-MW-1-I-I-091900-P 1240-30 gallors collected for treatedily study 1312 - lunch - abo got DI with from will 1-1350 - At site/well MW-4-D US9 - initial depth to writer .98.68". H20 - Started pumping adjustril Flow to 1.24/min. K. Maddon يجاميهه وي

|   | 115    | 1               | 1          |            | 1              |             | Not             |
|---|--------|-----------------|------------|------------|----------------|-------------|-----------------|
|   |        |                 | •          | 1          |                |             |                 |
|   | 1426 - | started         | etinom     | ing        | T<br>          |             | 09-20-00        |
|   | 1516   | collected       | 1 Sam      | phe W-Mh   | ,-4-p-091      | 100-P       | 0800 -          |
|   | deco   | ned equ         | ptment     | 1          | (to <b>s</b> l | (r)         | 0820- 27        |
|   | 1526 1 | vell My         | 1-4-I -    | depth to w | nter = c       | 16.50 fat   | 0840 Mt 4       |
|   | /537 - | Started y       | umping -   | Flow al;   | usted to ).    | \$ 1/min    | 0848 - too      |
|   | 16 17  | collected       | / mater s  | nmpk       | 1              | 1           | - 105           |
|   |        | $\omega$ -mw    | -4-I-09    | 1900-P     | total (r)      | 1           | 0900 St         |
|   | 1632 L | vell Mu         | 7-4-5 -    | nitial dep | to be writer   | = 96.02     | with puppin     |
|   | 1644 - | left well       | to dump    | wastewi    | iler.          | +           | +0. LO. L/mt    |
|   | 1656 - | Started         | Pumping    | -flow udj  | usted to-      | 1.0 Lanin   | 0949-Started    |
|   | 1702   | Started         | monitor    | 9          | l<br>I         | -           | 1028 15 mp      |
|   | 1730   | collecte        | d 1 total  | Cr Sample  | # W-MW-        | 1-5-091900+ | 1042 - Initi    |
|   | decon  | 1 - 1745        | <br> <br>  | -          |                | r<br>T      | tp.u            |
|   | 1800 - | Shipping        | Samples 4  | ł          | /              | •           | 1050: sturted   |
|   |        | 1 <b>-</b><br>+ | ļ          |            |                |             | 1108 - started  |
|   |        | 1               | ļ          |            |                | -           | 1141 - collecte |
|   | 1      | End of on       | 1          | 12         | 1              |             | 1222 - initial  |
|   | i      |                 |            | - Handle   | 1              |             | well MU         |
|   |        |                 | $\sqrt{M}$ | -          | i<br>I         |             | 1257. 12.45.    |
|   | -      | - h /           |            | i<br>t     | l<br>I         |             | to licita       |
|   | i<br>t |                 | a          | -4         | 1              |             | 1335 - cin      |
|   | !      |                 | •          | L L        | i<br>t         |             | 1+2 of 1        |
|   | ,<br>, |                 | 1<br>1     | •          | :<br>+         |             | monitoring.     |
|   |        | <br>            | +          | i<br>t     | 1              |             | tichid by pr    |
|   |        | +               | i<br>t     | +          |                | -           | in culligen     |
|   | •      | •               | İ          |            |                |             | ,               |
|   |        | <br>            | · · ·      |            |                |             |                 |
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|   | 1      |                 |            |            |                |             |                 |
| 1 |        | 1               |            | 1          | 1              |             | 1 1 1           |

te Callotticate motors and -0330 (pH=7) (cont=Imskm) 09-21-00 frm 09-21-00 ٢٢ on meeting site culligan getting water for decar vell site mu-6-I the mitter masurement of depth to writer .... tenting . pemping .- Some problems J- Flow echieved and adjusted g manisary. le collected 10440-6-I.-092000-P al Sample massion of depth ... writer = 106.17. For well mw-6-D propiot adjustry the rite to 1.0 4/min. 1 mon that s . the I water Serple W-MW-5D090000-P. macsurement and deputh to writer. W-6-5. primping. Shot of - Flow inte adjusted ductivity QK - turbudity high -PUC Strawings coming up and in . . hander - use of T" button to clean . robe - probe tested at ~ 1300 dricking water and tuckid of the Cos 

. . . . . .

1

117 09-21-00 1340 Sample Collected - total Cr tod + mationew on Works 42 W-MW-6-5-012000-A 10835 - annived at well ACE-R-D and 1415 Lurch after decon - dso emptyed Childrented motor - 2 pt ph calibration (pH4, pH7) waster water and did water depth and 10005plum For conductioning On well behind Ace site - ho water 08491- 10th Sive Sar well ACE-R-D in well at bottom of ~ 32 feet Depth meter appears to be matiguete 1525 mensured initial depth to water with the OP ACE-R-S, I, D well, at 104.03 from DADD - depth to water many pt x84 or ground level (west side of cosing) note: much Wigher Lorater Level than yester day . 32 15:30 pumping sturted - adjusted flow rate to ~104mm to 1.0.4m 1541 - Sturted monitor of ACE R-I - pump report report the charter below Set the depth of 167' (Screen depth 161-171) 0938 Started montory From grand level. 1622 - cpllater 1 tobler Suple - WARE-E-Diot200-P 1631 - collected W-ACE-R-I-092000. P (total cr) 1024 - began deith - also dunged with withen 1645 - ofter decon - measured depth to water of 10399 1104 arrived at OB-1 cluster - started od-1-II fipm ground kerel - set pup at 130' From grand lack 112 in the depth to water at 112 171 1622 - Sturter purping - flow rule set to - 1.0 chen sutte 11212 putting started - 5 au adjusted to 14 4/min ... 1715 - noticed air bubbles flowing into mainter Screen pussble pump cautation ? - bubbles periodiu 1730 - collected Sample W.ACE - R-5-092000-P 1225+ deron 1815 - all deson completed - Samples logged and 235 mayer to 03-1-5 1240 Initial Supple of 08:1:51 at 112:08 13:00 Stantad Puting = calustal flow to 10 clain 355 collected W-06-15 -0920000 (461 Cp) Sent to UPS the Part The Profit 092000 K. Madda

| 119                                                |                 |
|----------------------------------------------------|-----------------|
|                                                    | 09-22-0         |
| 1430, Initial mensue depth to water al 109.56      | 0500 - at       |
| Fut DB-21-D                                        | 0825 - Calib    |
| 1440 + Standard primping - Fland rate udicated     | Ph= 2.P         |
| TO ~ LUCIMA                                        | Lond uct a      |
| 1505 started mon toring                            | 0530 - pave     |
| 1554 collected total (r \$n-ple W-10B 2 0;092,001) | mahte-          |
| IELD Well OB-2-I junitial Deputy to                | Suitebood +     |
| water ingusand 108-15                              | 0851- at u      |
| 1622 - pumping - flat set at 10 1/min              | manuel !        |
| 1030 - Sample //110/ 101 5                         | - micropi       |
| 1717 - J-CB-2-I-092100-P. collad                   | 0910 - Stute    |
| 1500 - Samples & treatability unler                | CHIT. F.Flow    |
| Left to the type                                   | 0421- mon       |
| 1810 and of day                                    | 1016 - Sampl    |
|                                                    |                 |
|                                                    | 1022 - Rinsa    |
| · · · · · · · · · · · · · · · · · · ·              | 1046 at 30      |
| Minter                                             | 1051 - depth to |
| 1. The stream of                                   | 1102 flow       |
| 1.000                                              | 1107 - Started  |
| + to the + to the                                  | 1202 took \$    |
| Mert 0921105<br>Mert 200<br>And Dog                | 1204 - devon    |
|                                                    | 1240 - lun      |
|                                                    | 1310 - met      |
|                                                    | rea             |
|                                                    |                 |
|                                                    |                 |
|                                                    |                 |
|                                                    |                 |
|                                                    | <b>1 (</b> 1    |

120  $\mathbf{x}$ job \$72 ..... nation of mon toring pushes point - son for pH4 & pH7. b= sola 1000 ps/cm.... a problem with monitoring testal- AC converter finity rell OB-2-5 - well in trel 2 to water at 10930 feat. unge punys livered to po best. . ритр'у. . . . . . virate adjusted to 10. L/min ... ntoing stuted le. W- OB-2-5- UF2202-f ate Sample collected te up well MW.J-S. water 102.49 feat. rate set of 104/min Sande W-Mleiz-S-09200P t. to propose for sinultaneous ding of well depths K, Madden

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| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | wer              | de our           | rending          |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|---------------------|
| NW 8-5 $10825$ $1340$ $.4t. Leo$ $mW.8-T$ $107.80$ $1337$ $1546-5ta$ $mW.8-T$ $107.80$ $1337$ $1546-5ta$ $mW.8-T$ $107.89/107.89$ $1332$ $1.601-1$ $mW.9-D$ $107.89/107.89$ $1332$ $1.601-1$ $MW.9-S-D$ $107.89/107.89$ $1332$ $1.601-1$ $MW.9-S-D$ $107.89/107.89$ $1332$ $1.601-1$ $MW.9-S-D$ $112.95$ $1349$ $1.60366$ $mW.9-S-D$ $112.95$ $1349$ $1.60366$ $mW.9-D$ $113129$ $1354$ $10411564$ $MW-11+5$ $1191.81$ $1354$ $10411564$ $MW-11+5$ $1191.81$ $1402$ $10260162$ $MW-11+5$ $1191.81$ $1402$ $10260162$ $MW-11+5$ $1191.81$ $1402$ $10260162$ $MW-11+5$ $112960162$ $1409$ $10260162$ $MW-11+5$ $122949$ $1406$ $10260162$ $MW-12-5$ $143.57$ $1416$ $10065$                                                                                                                                        | · · · ·          |                  |                  |                     |
| MW.8-5 $10825$ $1340$ .ut. Leo $mW.8-I$ $107.80$ $1337$ $1546-556$ $mW.9-0$ $107.89/107.89$ $1332$ $1601-1$ $WW.9-5$ $107.89/107.89$ $1332$ $1601-1$ $WW.9-5$ $107.89/107.89$ $1332$ $1601-1$ $WW.9-5$ $112.95$ $1349$ $160364$ $MW.9-5$ $111.81$ $1352$ $54artud.Well$ $MW-9-5$ $1191.81$ $1354$ $16411544$ $MW-11+5$ $1191.81$ $1402$ $17026014$ $MW-11+5$ $1191.81$ $1402$ $17026014$ $MW-11+5$ $122.49$ $1402$ $17206014$ $MW-11-5$ $122.49$ $14266$ $materials.1$ $MW-12-5$ $-143.57$ $1416$ $1416$ $MW-12-0$                                                                                                                                                       | ) Depth read     | ms: f            | D.               | 1541 - ar           |
| mw - 8 - D $107.89 / 107.89$ $1332$ $1.601 - 1$ $ww - 9 - s$ $112.95$ $1349$ $1.630 - 4rr.$ $mw - 9 - s$ $112.95$ $1349$ $1.630 - 4rr.$ $mw - 9 - p$ $111.81$ $1352$ startud. well $mw - 9 - p$ $113129$ $1354$ $1641 - 56rA$ $mw - 9 - p$ $113129$ $1354$ $1641 - 56rA$ $mw - 9 - p$ $113129$ $1354$ $1641 - 56rA$ $mw - 9 - p$ $113129$ $1354$ $1641 - 56rA$ $mw - 11 - 5$ $1191.87$ $1402$ $1702 - 601162$ $mw - 11 - 12$ $120.16$ $1402$ $1702 - 601162$ $mw - 11 - 12$ $120.16$ $1402$ $1702 - 601162$ $mw - 11 - 12$ $122.49$ $1406$ $1702 - 60162$ $mw - 12 - 5$ $143.57$ $1416$ $1416$ $mw - 12 - 0$ $144.65$ $1414$ $1416$ $mw - 12 - 0$ $144.65$ $1414$ $1414$                                                                                                                                         | W-8-2            | 108 28           | 1340             | at Leof             |
| Mw.9 - s       1/2.95       1349       1.630 Arr. $Mw.9 - s$ 1/2.95       1349       1.630 Arr. $mw.9 - D$ 1/1.87       1352       started. web $mw.9 - D$ 1/3.29       1.354       1.641 - Started. web $mw.9 - D$ 1/3.29       1.354       1.641 - Started. web $mw.9 - D$ 1/3.29       1.354       1.641 - Started. web $mw.9 - D$ 1/3.29       1.354       1.641 - Started. web $mw.9 - D$ 1/1.3.29       1.354       1.641 - Started. web $mw11 + s$ 1.19.87       1.4022       1.752 - co.1162 $mw11 + s$ 1.20.76       1.402       1.752 - co.1162 $mw11 - D$ 1.22.49       1.402       1.752 - co.1162 $mw12 - s$ 1.43.57       1.418       1.419 $mw.72 - C$ 1.43.57       1.418       1.419 $mw.72 - D$ 1.444.65       1.414       1.414         Personal Well       monitoris       1.414       1.414 |                  |                  | 1337             | 1546Sta             |
| MW-9 - s $1/2.95$ $1349$ $1.30.$ Arr. $MW.9 - D$ $1/1.8/1$ $1352$ started. well $MW-9 - D$ $1/31.29$ $1354$ $1641 - 564$ $MW-11 - s$ $1191.8/1$ $1402$ $120.$ $MW-11 - s$ $1191.8/1$ $1402$ $120.$ $MW-11 - s$ $1191.8/1$ $1402$ $120.$ $MW-11 - s$ $120./6$ $1402$ $120.$ $MW-11 - D$ $122.49$ $1406$ $1720.$ $MW-11 - D$ $122.49$ $1406$ $1720.$ $MW-12 - s$ $143.24$ $1419$ $MW/2 - I$ $143.57$ $1416$ $MW-12 - D$ $144.65$ $14/4$ $Personal Well Monitoris1414.65$                                                                                                                                                                                                                                                                                                                                           | W-8-0            | 107.89/107.89    | 1332             | 1601 - 19           |
| MW-9 - s $1/2.95$ $1349$ $1.30.$ Arr. $MW.9 - D$ $1/1.8/1$ $1352$ started. well $MW-9 - D$ $1/31.29$ $1354$ $1641 - 564$ $MW-11 - s$ $1191.8/1$ $1402$ $120.$ $MW-11 - s$ $1191.8/1$ $1402$ $120.$ $MW-11 - s$ $1191.8/1$ $1402$ $120.$ $MW-11 - s$ $120./6$ $1402$ $120.$ $MW-11 - D$ $122.49$ $1406$ $1720.$ $MW-11 - D$ $122.49$ $1406$ $1720.$ $MW-12 - s$ $143.24$ $1419$ $MW/2 - I$ $143.57$ $1416$ $MW-12 - D$ $144.65$ $14/4$ $Personal Well Monitoris1414.65$                                                                                                                                                                                                                                                                                                                                           | Gary F           | 's meter. K      | made miter       | 16030               |
| $mw^{4}-t$ $111/81$ $1352$ started. well $mw^{9}-t0$ $113129$ $1354$ $1641 - 5442$ $Mw^{-11}+s$ $119181$ $1402$ $1702 - collect$ $mw^{-11}+t$ $120.66$ $1404 - 1724 - collect$ $mw^{-11}-t$ $120.66$ $1404 - 1724 - collect$ $mw^{-11}-t$ $122.49$ $1406$ $mw^{-12}-s$ $143.24$ $1418$ $mw^{-12}-t$ $144.65$ $1414$ $mw^{-12}-t$ $144.65$ $1414$ $mw^{-12}-t$ $144.65$ $1414$                                                                                                                                                                                                                                                                                                                                                                                                                                    | N-9-5            |                  | 1349             | 1,30 + Ami          |
| mw.9 - D       113129       1354       1641 - Stert $Mw-11 + S$ 119181       1402       102 - willed $mw-11 + I$ 120.16       1402       102 - willed $mw-11 + D$ 122.49       1405       materials $mw-11 - D$ 122.49       1406       materials $mw-12 - S$ 143.24       1419 $mw/2 - I$ 143.57       1416 $mw-12 - O$ 14465       1414 $mw-12 - O$ 14465       1414                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                | 111 81           | 1352             |                     |
| MW - 11 + 5 $119.81$ $1402$ $1702 - 0.1160$ $MW - 11 + I$ $120.16$ $1404 - 1720 - 0.0160$ $MW - 11 - D$ $122.49$ $1406$ $1720 - 0.0160$ $MW - 11 - D$ $122.49$ $1406$ $1720 - 0.0160$ $MW - 12 - 5$ $143.24$ $1418$ $MW - 12 - 0$ $144.65$ $1414$ $MW - 12 - 0$ $144.65$ $1414$ $Personal Well Monitorized       1414$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | w-9-10           | 113229           | 1354             |                     |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | W-11 45          | 119,81           | 1402             | 1702 - willecte     |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 16-11 +I         | 120.16           |                  | -1724 - deu         |
| MW-12-5 143.24 1419<br>MW-12-J 143.57 1416<br>MW-12-D 144.65 1414<br>Personal Well Monitoris                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | w-11-P           | 122.49           |                  |                     |
| mw-12-0 144.65 1414<br>Personal Well monitoris                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | nw-12 - 5        | 143.24           | 1419             |                     |
| mw-12-0 144.65 1414<br>Personal Well monitoris                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | nw/2 -I          | 143.57           | 1416             |                     |
| Personal Well monitoris                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | nw-12-0          | 144.65           |                  |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Personal We      | 11 monitoria     |                  |                     |
| I I ATTINGA I 7 40 G 4" LACTZEC HARA) KU UG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  |                  | tzke hake) RU-06 |                     |
| 1450 - Sturted, monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 150 - Sturted, r | vori toire       | · · · · ·        |                     |
| 1510 - took last monitoring reliding and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 - took lust   | monitoring relia | ding and         | · · · · · · · · ·   |
| collected 1 total 6r sumple w - RW Ob orizoni                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | collected 1      | total Gr Sumles  | W-RW-06-0922001  | •••••••             |
| 1516 - arrived at 1650 E. 4th (Havel Roxidence)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 - arrived at   | 1650 £ 4th (H    | avel Residence)  | ••••••              |
| well RW-05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | well RW-05       |                  |                  | · · · · · · · · · · |
| 1516- stuited top through Lose                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                  | -                |                     |
| 1521- Started monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                  | •                | · · · · · · · ·     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |                  | •                | • • • • • • • •     |
| 1537 - took 3 total (r Samples<br>W-RW-05-092200-P, W-RW-05-092200- the and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -RW-05-092200    | -P, W-RW-05-09   | 12200- 175 and - | · · · · · · ·       |
| w Rub-05-092200-115D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |                  | •                | • • · · • • •       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | i                |                  |                     |

(22 rrived at 175 thompson Dr. spold Rrsidence. RW-01 well arted. monitoring..... last man toring. Collected 1 total cr. W-RW-01-092007 rivid at Smith residence RU-08 ell water running through gardon home half man total ted sample W RW-08-092200 P varining equiptiment, getting. K. Madden

Appendix E Chain-of-Custody Records

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|--------------|------------------------------|------------------------------------------------|----------|------|-------------|---------------------------------|------------------|------|-------|----------|----------------------------------------------------|---------------|----------|----------|--------|----------|---------------|--------------|-----------|------------------|-------------|
|              | E C                          | HAI                                            | N O      | )F ( | CUSI        | ODY F                           | SECO             | RD   | )     | SAMPL    |                                                    |               | <u>.</u> |          |        | CLIE     | NT CONTACT    | <br>'        |           | HONE NUMBER      |             |
|              |                              | OUTHW                                          | est L    | ABOR | ATORY       | OF OKLAH                        | oma <b>. I</b> n | c.   |       |          |                                                    |               |          |          |        | 1 815)81 | <u>0 1859</u> |              |           |                  |             |
| 田零           | TM                           |                                                | W. ALL   |      | oken Annow, | Oklahona 74012<br>x918-251-2599 |                  |      |       |          | PO OF PROPOSAL NUMBER<br>46118.124<br>Are Jonuices |               |          |          |        |          |               |              |           |                  |             |
| SAMPLER (Sig | nature) i<br>7 <sup>11</sup> | •.~.                                           | Ú        | h    |             |                                 |                  |      |       |          |                                                    | July Will     | N        | VAL YTIC | AL TES | STS RE   | QUESTED       | <b>,</b>     |           |                  |             |
| SAMPLE NO    | DATE                         | TIME                                           | COMP     | GRAB | L           | OCATION                         | MATRIX           | NUMB | ER OF | <u>^</u> |                                                    |               |          |          |        |          |               |              | REMA      | RKS              |             |
|              | שטי בוי ר                    | 1400                                           | Χ        |      | 5-ID        | WEX2-012                        | <sup>2</sup> 5   |      |       |          |                                                    |               |          |          |        |          | 24            | 5            | Turn      | Horatin          | د           |
|              | ĵ <b>3</b>                   |                                                | 1        |      |             |                                 | -                | +-   |       |          |                                                    | •             |          | _        |        |          | 1             |              |           |                  |             |
|              |                              |                                                |          |      |             |                                 |                  |      |       |          |                                                    | _             | _        | _+       |        |          | (78           | <u>15)</u>   | 162.2     | 2344<br>Filkner  |             |
|              |                              |                                                |          |      |             |                                 | +                |      |       |          | -+                                                 | -+            |          |          | +      | +        |               | <i>/o</i> (- | zary 1    | Fikner           |             |
|              |                              |                                                |          |      |             |                                 |                  | +    |       |          |                                                    | +             | -+-      | _        | +      |          |               |              |           | <u> </u>         |             |
|              |                              |                                                |          | -    |             |                                 | +                | +    |       | - +      | -+                                                 | +             | -+-      | -+       | +      | ┼        | <u> </u>      |              |           |                  |             |
|              |                              |                                                | <u>†</u> |      |             |                                 | +                | +    |       |          | -+                                                 | +             | -+-      |          | +      | +        |               |              |           |                  |             |
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|              |                              |                                                |          |      |             |                                 |                  |      |       |          |                                                    |               |          | _        |        |          |               |              |           |                  |             |
|              |                              |                                                |          |      |             |                                 |                  | +    |       |          |                                                    | _             | _        | _        | +      | <b> </b> | <br>          |              |           |                  |             |
|              |                              | <u>.</u>                                       | <b> </b> |      |             |                                 | +                |      |       |          | _                                                  |               |          |          | +-     | <b> </b> |               |              |           |                  |             |
|              |                              | - <u>.                                    </u> |          |      |             |                                 | +                |      | -     |          |                                                    | $\rightarrow$ |          |          | +      |          |               |              |           |                  |             |
|              |                              |                                                |          | -    |             |                                 | +                | +    |       | +        | -+                                                 |               |          |          | +      | +        |               |              |           |                  |             |
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|              | BY (Signature                |                                                | <u></u>  | DATE | TIME        | RECEIVED BY (Sw                 |                  |      |       |          |                                                    | ISHE          |          | (Signal  |        | <u>.</u> | DATE          | TIME         | RECEIVED  | BY (Signature)   |             |
|              | 7                            |                                                |          |      | 1730        | UPS<br>120281                   |                  | 000  | 0671  |          |                                                    | _             |          |          |        |          |               |              |           |                  |             |
| elinquished  | BY: (Signature               | )                                              |          | DATE | TIME        | RECEIVED BY (Sig                | nature)          |      |       | R        | ELINQU                                             | ished         | BY (S    | gnature) |        |          | DATE          | TIME         | RECEIVEDF | OR LABORATORY BY | (Signature) |
| ELINQUISHED  | BY (Signature                | )                                              |          | DATE | TIME        | RECEIVED BY (Sig                | inature)         |      |       |          | EMARK                                              | S             |          |          |        |          |               |              |           |                  |             |

[SR012-1192-07]

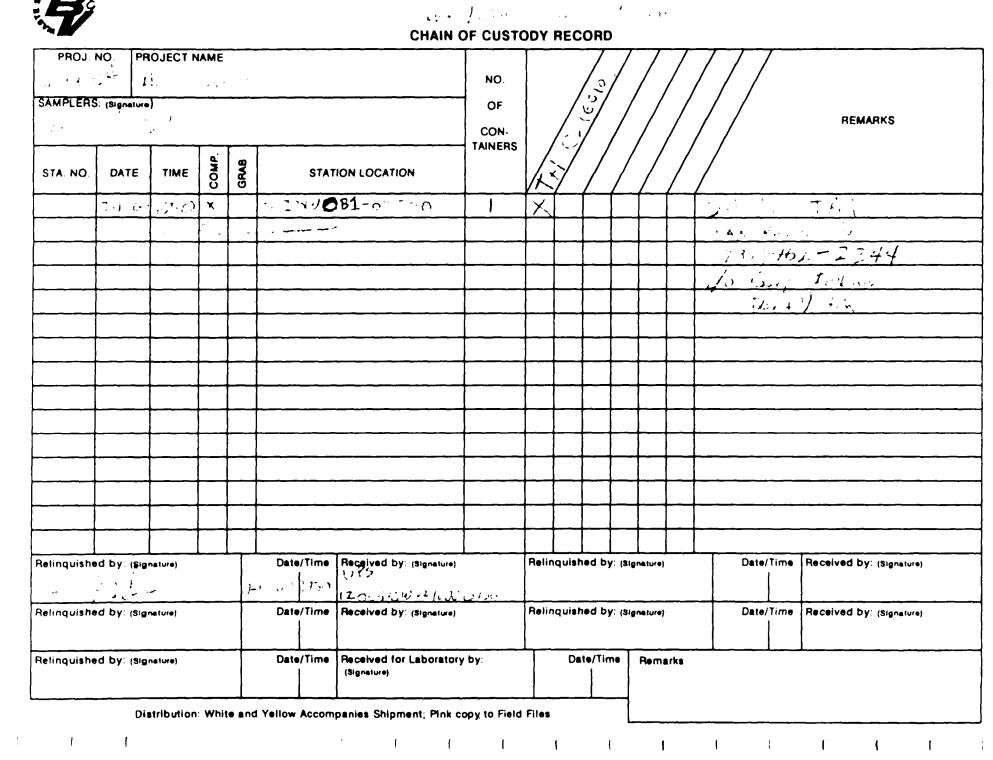
| SHCE AND | TECHNOLOGY | CORP. |
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CHAIN OF CUSTODY RECORD

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Distribution: White and Yellow Accompanies Shipment; Pink copy to Field Files



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|             |           |                                     |        |       |                 |      |                    | CHAIN              | OF CUSTO       | DDY      | REC   | ORD      | )       |              |     |          |       | A                        |
|-------------|-----------|-------------------------------------|--------|-------|-----------------|------|--------------------|--------------------|----------------|----------|-------|----------|---------|--------------|-----|----------|-------|--------------------------|
| PROJ.       |           | ROJECT                              |        |       |                 |      |                    |                    | NO.            |          |       | /        | 7       | 7            | 7   | 777      | ,     |                          |
| SAMPLERS    | Signatur  | •)                                  |        |       |                 |      |                    |                    | OF             |          |       | 3        |         | ' /          |     |          |       |                          |
|             |           |                                     |        |       |                 |      |                    |                    | CON-           |          | /.    |          | /       | / /          |     |          |       | REMARKS                  |
| STA. NO.    | DATE      | TIME                                | COMP.  | GRAB  |                 | STAT |                    | CATION             | TAINERS        | 13       |       |          |         |              |     |          |       |                          |
|             | 1 14 1    | $\left\{ p \in \mathbb{N} \right\}$ | 7      |       |                 | 20   | 54 D               | 11/00              | 1              |          |       |          |         |              |     |          |       | - <u>``</u>              |
|             |           |                                     |        | Ð     |                 |      |                    | ~ `                |                |          |       |          |         |              |     | <u> </u> |       | 51 10. 3+1               |
|             | <br>      | ļ                                   |        |       | ļ               |      |                    |                    |                |          |       |          |         |              |     |          |       | <u> </u>                 |
|             |           |                                     |        |       |                 |      |                    |                    | ļ              |          |       |          |         |              |     |          | ,<br> |                          |
|             |           | <u> </u>                            |        |       | ļ               |      |                    |                    | ļ              |          |       |          |         | $\downarrow$ | -+  |          |       |                          |
|             |           | <u> </u>                            |        |       | ļ               |      |                    |                    | <b> </b>       |          |       |          |         | ┟─┼          |     |          |       |                          |
|             |           |                                     |        |       |                 |      |                    |                    | <b> </b>       |          |       |          |         | ╞╌┼          | _   |          |       |                          |
|             |           |                                     |        |       |                 |      |                    |                    | <u> </u>       |          |       |          |         | ┥─┤          | _   |          |       |                          |
|             |           | ╆                                   |        |       |                 |      |                    |                    | <b> </b>       |          |       |          |         | ┼╌┼          |     |          |       |                          |
|             |           | +                                   |        |       | <u> </u>        |      |                    |                    | <u> </u>       | <b> </b> |       |          |         | ╉╾┼          |     |          |       |                          |
|             |           | +                                   |        |       |                 |      |                    |                    | <u> </u>       |          |       |          |         | ╉──╁         |     |          |       |                          |
|             |           |                                     |        |       |                 |      |                    |                    | <u> </u>       |          |       |          |         | ┥─┼          |     |          |       |                          |
|             |           | +                                   |        |       |                 |      |                    |                    | <u> </u>       |          |       |          |         | ╂╼╌╂         |     |          |       |                          |
|             |           | +                                   |        |       | <u> </u>        |      |                    |                    | <u> </u>       |          |       |          |         | ┼─┼          |     |          |       |                          |
| Relinquishe | d by: (și | gnature)                            | L      |       | Date/           | lime | Receiv             | ed by: (Signature) | 1,             | Relin    | quist | ed by    | /: (81g | inature)     |     | Date     | Time  | Received by: (Signature) |
|             |           |                                     |        | 5     | 1.4 .5 1        | ·. , |                    | ·                  | · <b>7</b> . 7 |          |       |          |         |              |     |          |       |                          |
| Relinquishe |           |                                     |        |       |                 |      |                    | ed by: (Signature) |                | Relin    | quist | ned by   | Y: (Sig | nature)      |     | Date     | Time  | Received by: (Signature) |
| Relinquishe | d by: (si | gnature)                            |        |       | Date/           | lime | Receiv<br>(Signati | ed for Laborator   | y by:          | 1        | Da    | te/Tin   | ne      | Rema         | rks | <b>i</b> | L     | I                        |
|             | D         | istribution                         | : Whit | e and | L<br>d Yellow A | ccom | panies :           | Shipment; Pink c   | opy to Field   | Files    |       | <u> </u> | {       |              |     |          |       |                          |

| <u> </u>    |                         | 1700  |            |              | ow, Oklahona 74012-1<br>• Fax 918-251-2599 | 421<br>   |            | 46118                       | 3. 124     |                           |            | REQUESTED | 1.000        |                                   |
|-------------|-------------------------|-------|------------|--------------|--------------------------------------------|-----------|------------|-----------------------------|------------|---------------------------|------------|-----------|--------------|-----------------------------------|
| SAMPLER (S  | ionaturi)<br>- 22       |       | [          |              |                                            |           |            |                             | J.         |                           |            |           | لي           |                                   |
| SAMPLE NO   | DATE                    | TIME  | COMP G     | RAB          | LOCATION                                   | MATRIX    | NUMBER OF  | , et X                      | bet /      |                           |            |           |              | REMARKS                           |
|             | 1-13-0                  | юк    |            | <u>X w-m</u> | w. 12-I-07180                              | p-p;"     | 2          | 11                          |            |                           |            |           |              |                                   |
|             | 1-18-00                 | 1054  |            | X w-m        | N-12-5-01100                               | p-p u     | 2          |                             |            |                           |            |           |              |                                   |
|             | 9-18-00                 | 01151 |            | <u>X w-m</u> | W-11-I-0118                                | oz-plu    | 2          |                             |            |                           |            |           |              |                                   |
|             | 9-18-00                 | 1151  |            | Xwm          | 1-11-I-03180                               | $p-D^{+}$ | 2          | 11                          |            | + _ + _                   |            | D         | i cela       |                                   |
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| ·           |                         | 13:55 |            | Yww          | 1-11 5-09 BOO                              | - P M     | 12         |                             | - +        | $\downarrow$ $\downarrow$ | _          |           |              |                                   |
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|             |                         | 1646  |            |              | W-2-I-09180                                |           | - <u>-</u> |                             |            | ╉╌┟╴                      | -+-+       |           |              |                                   |
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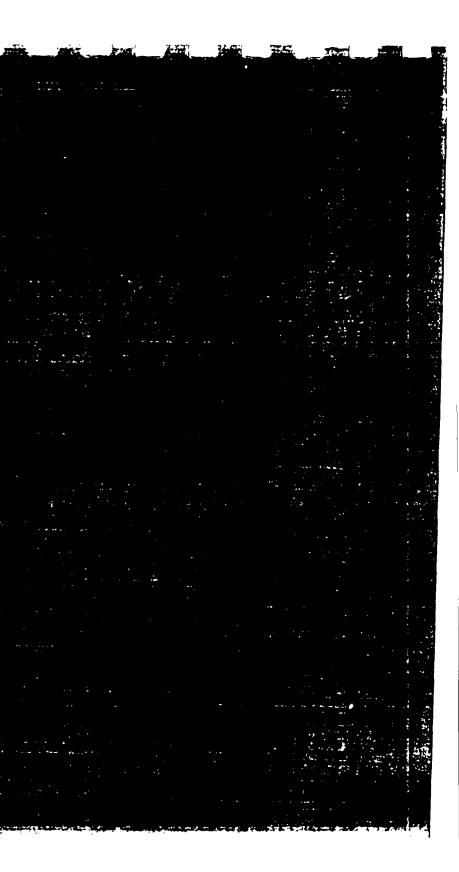
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|             | 1-1, 69         |      | <br>       | 10_           | w-PW5-8-0-100-                                              |               | W        | 2         | 1         |          |                        |      |           |                   |           |           |                 |                    |                                     |             |
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|             | 9-19-00         |      |            | +             | W-MW-9-5-09110                                              | +             |          |           |           |          | $\left  - \right $     |      |           |                   |           | -+        |                 |                    |                                     |             |
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|             | 9-1:00          |      | <u> </u>   | ×             | w-mw-9-1-091900                                             |               |          |           | -         | +-       | ┝╶┤                    |      |           |                   |           | ┝╶╢       | 1               |                    | S. Lien, orthophys, bure            | <u>n.h.</u> |
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|             | 04-14-26        |      | <u>}</u>   | 1             | W-MW-4 I 4.19                                               | 1             |          |           | <u> -</u> | ┼╴       | +                      |      |           |                   | _         | ┝──┤      |                 |                    |                                     |             |
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|             | - 20.31       |               |       |            | W-W-6-5-3-200                                                                                   |                 | 1         | 1                 |            |             |              |             |       |                                        |
|             | 2-30-00       | 1141          |       | ~          | W-MW-6-5-01200                                                                                  | W               | 1         | 1                 |            |             |              |             |       |                                        |
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Appendix F Airbills

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| Gorg Felkner 913-458-2000                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| BLACK & VEATCH SPEC PROJ CORP                                                               | T Bui Bui Trend Crear Card                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| STREET ADDRESS<br>6601 COLLEGE BLVD                                                         | METHOD SLOPER CATE American Express Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Provide Cate Pro                                                                                                                                                                                                                                   |
| CITY AND STATE ZIP CODE                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OVERLAND PARK KS 66211 1504<br>2 EXTREMELY URGENT DELIVERY TO                               | PECEIVERS / THIRD PARTY'S UPS ACCT. NO OR MAJOR CREDIT CARDING EXPIRATION      DATE     DATE     //     //                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NAME Dave Le Master (918) 251-285                                                           | 8 THIRD PARTY'S COMPANY NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| COMPANY                                                                                     | STREET ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SW Labs<br>STREET ADDRESS DEPT /FLOOR                                                       | CITY AND STATE ZIP CODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1700 W. Albany<br>CITY AND STATE (INCLUDE COUNTRY & INTERNATIONAL) ZIP CODE                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Broken Arrow, OK 74012                                                                      | Shippers X 3 (MA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                             | SIGNATURE X Am FUT L<br>DATE OF SHIPMENT<br>7 /12 /00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                             | <u>7 //2 /00</u><br>0101911202609 2/95 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UPS Next Day Air                                                                            | 3 WEIGHT DIMENSIONAL WEIGHT SHIPPER'S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| UDS UPS Worldwide Express                                                                   | ZIDX COPY +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Shipping Document                                                                           | A NEXT DAY WORLDWIDE CHARGES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| See instructions on back. Call 1-800-PICK-UPS (800-742-5877)<br>for additional information. | ALE RVICE FOR WORLDWGE EXPRESS SUPLEMENTS DOCLMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TRACKING NUMBER 12 0E8 10W 22 1000 073 6                                                    | SATURDAY<br>PICKUP<br>SATURDAY<br>DELIVERY<br>S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1 SHIPMENT FROM<br>SHIPPEN S UPS ACCOUNT NO                                                 | DECLARED VALUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ACCOUNT OE810W<br>NO REFERENCE NUMBER 2                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 046118012                                                                                   | COD were encourt bins 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| NAME TELEPHONE<br>Gan Falka 913-458-2000                                                    | HAN2DI INZLE<br>C HANGE Anno See natructions S S S S S S S S S S S S S S S S S S S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| COMPANY                                                                                     | Cotate S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| BLACK & VEATCH SPEC PROJ CORP                                                               | BLL BLL THEO<br>BLL PACENER PARTY CREDT<br>SHETTER PARTY CARD American Express CHECK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 6601 COLLEGE BLVD                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OVERLAND PARK KS 66211 1504                                                                 | THEORNERS / THEOR PARTY'S UPS ACCT. NO. OR MAJOR CREDIT CARD NO EXPIRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2 EXTREMELY URGENT DELIVERY TO<br>NAME TELEPHONE                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Randy Stage (913) 251-2858                                                                  | THIRD PARTY'S COMPANY NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SW Laboratory                                                                               | STREET ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| STREET ADDRESS DEPT/FLOOR                                                                   | CITY AND STATE ZIP CODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CITY AND STATE (INCLUDE COUNTRY IF INTERNATIONAL) ZIP CODE                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Broken Arrow, OK 74012                                                                      | SIGNATURE X 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| UPS Next Day Air<br>UPS Worldwide Express                                                   | 3 WEIGHT DIVERSIONAL<br>ENTER LTR WEIGHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SHIPPER'S<br>COPY                                                                                              |
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| Shipping Document                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CHARGES                                                                                                        |
| See instructions on back. Call 1-800-PICK-UPS (800-742-5877)<br>for additional information. | TYPE OF<br>SERVICE<br>For WOHLDWOK EXPRESS SHILL (INTERNATIONAL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | \$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$ |
| TRACKING NUMBER 12 DE8 10W 22 1000 072 7                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |
| 1 SHIPMENT FROM<br>SHIPPER'S UPS ACCOUNT NO                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | s tri                                                                                                          |
| ACEDINT 0 E 8 1 0 W                                                                         | SERVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                |
| REFERENCE NUMBER<br>0461180123                                                              | ALCOLD and an arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a set of the arcan to be<br>ALCOLD and a s | s                                                                                                              |
| NAME TELEPHONE<br>Gary Felknor 913-458-2000                                                 | CHARGE CHARGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | s                                                                                                              |
| COMPANY<br>BLACK & VEATCH SPEC PROJ CORP                                                    | Bit Bit THE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | s                                                                                                              |
| STREET ADDRESS<br>6601 COLLEGE BLVD                                                         | BLL RECEIVER PARTY CAEDIT<br>METHOD Sharren Nettikaria CARD American Express<br>OF Netikaria Cae Domeris Card                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Снась —                                                                                                        |
| CITY AND STATE ZIP CODE                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |
| OVERLAND PARK KS 66211 1504<br>2 EXTREMELY URGENT DELIVERY TO                               | B PECRIVERS THRO PARTY'S UPS ACCT NO OR MAJOR OREDIT CAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                |
| NAME TELEPHONE<br>Randy Stags (918) 251-2858                                                | L<br>THIRD PARTY'S COMPANY NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |
| COMPANY<br>SW Labs                                                                          | STREET ADORESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                |
| STREET ADDRESS DEPT /FLOOR                                                                  | CITY AND STATE ZIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CODE                                                                                                           |
| CITY AND STATE (INCLUDE COUNTRY IF INTERNATIONAL) ZIP CODE                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |
| Broken Arrow, OK 74012                                                                      | SHIPPER'S X Am Jelle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                |
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|                                                                                             | WEIGHT DIMENSIONAL WEIGHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | HIPPER'S                                                                                                       |
| UDS Next Day Air Early A.M.                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | THAR BOARD                                                                                                     |
| Shipping Dick ment                                                                          | SATURDAY SATURDAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                |
| See instructions on back. Call 1-800-PICK-UPS (800-742-5877) for additional information.    | DECLARED VALUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                |
| TRACKING MEMBER         IZ OE8 10W 21 1000 022 9           1 SHIPMENT FROM                  | AMOUNT \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                |
|                                                                                             | COD. STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE S                                                                                                                 |                                                                                                                |
| REFERENCE NUMBER 3.                                                                         | VERBAL CONFIRMATION OF DELIVERY \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                |
|                                                                                             | An Addecinel Handing Charge apples for certain grants See Instructions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                |
| Gary Felkner 913-458-2171                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |
| BLACK & VEATCH                                                                              | BUL BUL BUL BUL THE CREDIT<br>Sheren Recenter Party Card American Express                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Creck                                                                                                          |
| CITY AND STATE ZIP CODE                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |
| OVERLAND PARK KS 66211 1504                                                                 | PROEVERS THEO PARTYS UPS ACCT NO OR MAJOR CREDIT CAPO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                |
| 2 EXTREMELY URGENT DELIVERY TO<br>NAME TELEPHONE                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |
| Randy Stages (918)251-2858                                                                  | THIRD PARTY'S COMPANY NAME<br>STREET ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |
| Sw Lab of OK                                                                                | CITY AND STATE ZIP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CODE                                                                                                           |
| 1700 West Albany                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |
| CITY AND STATE ZIP CODE<br>Broken Arrow, OK 74012                                           | SHIPPERS X Am + Uh De                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                |
| 3 EARLIEST DELIVERY TIME                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |
| 9 10 am Sany day, record the earliest time that demany should be attempted                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |

|                                                                                          | WEIGHT DIMENSIONAL SHIPPER'S COPY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| UDS Next Day Air' Early A.M.                                                             | 39/65 COPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Shipping Document                                                                        | CHARLY A M. CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CO   |
| See instructions on back. Call 1-800-PICK-UPS (800-742-5877) for additional information. | SATURDAY<br>PICKUP SATURDAY<br>Let TOTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TRACKING NUMBER 12 0E8 10W 21 1000 006 9                                                 | DECLARED VALUE<br>CONTRACT OF STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE ST |
|                                                                                          | OPTIONAL<br>SERVICES CO.D.<br>FCO.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                          | CHECOD LINE AMOUNT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| REFERENCE NUMBER<br>046118023                                                            | VERBAL CONFIRMATION OF DELIVERY \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| NAME                                                                                     | Apprilonyas     Maxinging     An Additional Handling Charge applies for center     Isona See natructions     See natructions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gary Felkner 913-458-2171                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| BLACK & VEATCH                                                                           | B Ball Ball Ball Delt Chept                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| STREET ADDRESS                                                                           | O SALESTEN PECEVIA PARTY CAR American Exercises                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CITY AND STATE ZIP CODE                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OVERLAND PARK KS 66211 1504                                                              | PRECEIVERS THAND PARTYS UPS ACCT NO OR MAJOR CREDIT CARD NO DOMINATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| NAME TELEPHONE                                                                           | THIRD PARTY'S COMPANY NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| COMPANY                                                                                  | STREET ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SW Lab of OK<br>STREET ADDRESS DEPT/FLR                                                  | CITY AND STATE ZIP CODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1700 W. Albany                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CITY AND STATE<br>Broken Arrow OK 74012                                                  | SHIPPERS X Han WINDAY OF SHIPPEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| EARLIEST DELIVERY TIME                                                                   | SIGNATURE A AM TOTAL TITLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 19 00 a m. Salardau), record the earliest time that detively should be alternated.       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                          | WEIGHT DIMENSIONAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| UPS Next Day Air<br>UPS Worldwide Express                                                | WEIGHT WEIGHT /b4 SHIPPER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Shipping Document                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| See instructions on back. Call 1-800-PICK-UPS (800-742-5877) for additional information. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TRACKING NUMBER 12 0E8 10W 22 1001 149 3                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| SHIPMENT FROM                                                                            | DELIVERY S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ACCOUNT O E 8 1 0 W                                                                      | AMOUNT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| REFERENCE NUMBER<br>0461180123                                                           | COLOR and another and the second and another another and the second and another another another AMOUNT \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| NAME TELEPHONE                                                                           | ADDITIONAL     An Additional Handling Charge applies for cartian     see sear natructions     S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| GARY FELKNER 913-458-6583                                                                | CHARGE S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| BLACK & VEATCH SPEC PROJ CORP                                                            | BLL BLL THED<br>BLL RELEVER PARTY CHEOT CHEOK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| STREET ADDRESS<br>6601 COLLEGE BLVD                                                      | Anertean Express                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CITY AND STATE ZIP CODE                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OVERLAND PARK KS 66211                                                                   | RECEIVERS / THIRD PARTY'S UPS ACCT NO OR MAUOR CREDIT CARD NO EXPRAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2 EXTREMELY URGENT DELIVERY TO<br>NAME ELEPHONE                                          | THIRD PARTY'S COMPANY NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Randy Stags (118)251-2858                                                                | STREET ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| NAME TELEPHONE<br>Gay Felknor 913-458-2000                                                  | ADDITIONAT     An Additional Handing Charge applies for certain     See instructions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Name Telephone Telephone Randa Stags (918)251-2858                                          | THIRD PARTY'S COMPANY NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Gary Felkner 913-458-2000                                                                   | CHARGE tems See netructions 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Randy Stags (918)251-2850                                                                   | THIRD PARTY'S COMPANY NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| STREET ADDRESS DEPT FLOOR<br>1700 W. Albany                                                 | CITY AND STATE ZIP CODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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Appendix G Survey Data

File I.S

46112

Zerr Engineering Date: 08-08-2000 Project No. 99-126 Page 1 of 2

## ACE SERVICES Colby, Kansas

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|             |               | evation     |               |                     |
|-------------|---------------|-------------|---------------|---------------------|
| Well        | Coordinates * |             | Top of Casing | Top of North Side   |
| Designation | North         | East        |               | of Flush Mount Ring |
| OB 1S       | 9380.08607    | 10308.46867 | 3142.71       | 3143.05             |
| OB 11       | 9378.57019    | 10328.25223 | 3142.31       | 3142.66             |
| OB 1D       | 9362.49239    | 10332.46531 | 3141.98       | 3142.29             |
| OB 2S       | 9377.06295    | 10392.88955 | 3139.59       | 3139.86             |
| OB 2I       | 9377.94194    | 10402.35013 | 3138.63       | 3138.91             |
| OB 2D       | 9377.88098    | 10412.45754 | 3138.11       | 3138.47             |
| EX 2S       | 9449.78932    | 10336.29564 | 3142.13       | 3142.42             |
| EX 2I       | 9441.91718    | 10347.99760 | 3141.30       | 3141.57             |
| EX 2D       | 9434.31623    | 10358.43995 | 3140.50       | 3140.89             |

\* Assumes the Coordinates of the SW Corner of 32-07-33 to be N = 9079.96000, E = 10000.00000

| Zerr Engineering   |  |  |  |  |  |
|--------------------|--|--|--|--|--|
| Date: 08-08-2000   |  |  |  |  |  |
| Project No. 99-126 |  |  |  |  |  |
| Page 2 of 2        |  |  |  |  |  |

## ACE SERVICES Colby, Kansas

| Distance From<br>Well SW Corner of 32-07-33 |       |      |                         |  |  |
|---------------------------------------------|-------|------|-------------------------|--|--|
| Designation                                 | North | East | 2.5 Acre Tract Location |  |  |
| OB 1S                                       | 300   | 308  | SW SW SW SW             |  |  |
| OB 11                                       | 299   | 328  | SW SW SW SW             |  |  |
| OB 1D                                       | 283   | 332  | SW SW SW SW             |  |  |
| OB 2S                                       | 297   | 393  | SW SW SW SW             |  |  |
| OB 21                                       | 298   | 402  | SW SW SW SW             |  |  |
| OB 2D                                       | 298   | 412  | SW SW SW SW             |  |  |
| EX 2S                                       | 370   | 336  | NE SW SW SW             |  |  |
| EX 2I                                       | 362   | 348  | NE SW SW SW             |  |  |
| EX 2D                                       | 354   | 358  | NE SW SW SW             |  |  |

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Appendix H Pump Test Results



TECHNICAL MEMORANDUM

USEPA Ace Services Site Pump Test Results

BVSPC Project 46118.126 BVSPC File D.3 4 November 13, 2000

# **INTRODUCTION**

In August 2000, a pump test was conducted at the Ace Services site in Colby, Kansas. The purpose of the pump test was to characterize the High Plains aquifer in the vicinity of the Ace Services site. Results of the pumping test will be used to model the hydraulic properties of the aquifer and to develop a design for a pump and treat remedial alternative for the Ace Services site. Three 72-hour pumping tests were conducted at three separate hydrologic zones within the aquifer to determine the transmissivity and hydraulic conductivity of the aquifer.

The City of Colby, Kansas relies upon the High Plains aquifer for its source of potable water (Figure 1). The High Plains aquifer is the principal source of water for the High Plains region. The High Plains aquifer consists primarily of sediments within the Ogallala Formation of Miocene age. The Ogallala consists of unconsolidated gravel, sand, silt, and clay. Locally, it also includes caliche, which is deposited as thin, discontinuous, layers within the upper portions of the formation. The Ogallala Formation was deposited by an extensive eastward flowing system of braided streams that drained the eastern slopes of the Rocky Mountains during the late Tertiary Period.

Unconsolidated deposits of Quaternary age overlie the Ogallala Formation. These deposits consist of gravel, sand, silt, and clay, much of which is reworked material that was derived from the Ogallala Formation. Deposits of loess overlie the Ogallala Formation or the unconsolidated Quaternary sediments at some locations.

FIGURE 1



Averaged 1997-1999 Saturated Thickness for the High Plains Aquifer in Kansas

Modified from U.S.G.S., 1997

## **SITE GEOLOGIC CONDITIONS:**

The lithology of the unconsolidated sediments, determined from soil samples collected during the drilling of the extraction and observation wells, indicates a highly stratified aquifer consisting of sand, gravelly sand, silt, and clay. The thickness of the unconsolidated sediments (Ogallala Formation) was approximately 230 feet thick. Multicolored shale of the Pierre Shale Formation underlies the unconsolidated sediments at 230 feet. The site subsurface stratigraphy is generalized by the following:

| Depth (ft) | Lithology                              | Remarks                   |
|------------|----------------------------------------|---------------------------|
| 0 - 30     | Silt, Sandy Silt (Loess)               | Dry                       |
| 30 - 57    | Sand and Silty Clay                    | Dry                       |
| 57 - 105   | Silt, Clay, and Sand                   | Dry to moist              |
| 105 - 135  | Sand, some gravel w/ Silty Clay layers | Shallow Aquifer Zone      |
| 135 - 145  | Sand and Clay (w/ interbedded caliche) | Shallow Aquifer Zone      |
| 145 - 190  | Gravelly Sand w/ thin clay lenses      | Intermediate Aquifer Zone |
| 190 - 207  | Clay and Silty Clay                    | Semi-Confining Unit       |
| 207 - 230  | Gravelly Sand w/ thin clay lenses      | Deep Aquifer Zone         |
| 230 +      | 230 +                                  | Bedrock (Pierre Shale)    |

#### **REGIONAL HYDROGEOLOGY**

The average saturated thickness of the High Plains aquifer in Kansas is approximately 90 feet. Water in the High Plains aquifer generally is under unconfined conditions. However, in some locations, water levels in wells completed in portions of the aquifer may rise or fall slightly in relation to the regional water table because of artesian pressure created by local confining beds. Generally the ground water gradient within the aquifer is from west to east. Water moves in response to the slope of the water table, which typically averages between 10 to 15 feet per mile. On the basis of these average gradients and aquifer hydraulic properties, the regional velocity of water that moves through the aquifer is estimated to average about 1 foot per day. Regional transmissivity values typically range from 40,000 to 60,000 gallons per day/ft with storage coefficients ranging from 0.14 to 0.27 (Miller and Appel, U.S.G.S. Ground Water Atlas, 1997).

## SITE HYDROGEOLOGY

Water levels measured during the remedial investigation indicate a slightly downward gradient within the aquifer surrounding the Ace Services site. Locally ground water flows to the east-southeast at horizontal gradients ranging from 0.0022 - 0.0032 ft/ft. Continuous water level monitoring prior to the pump test activities indicated that the shallow and intermediate zones within the aquifer function as a typical unconfined aquifer. However, monitoring data from the deep zone, collected prior to the pumping activities suggest that this lower zone acts as a semi-confined unit. Diurnal fluctuations in hydraulic head prior to the pump test occurred only in observation wells screened in the deep zone. These fluctuations suggest significant lateral influence by water supply wells pumping from the deep zone portion of the aquifer.

## **PUMPING TESTS**

Pumping tests were conducted at the Ace Services site within the Ogallala aquifer in Colby, Kansas from July 31 to August 10, 2000. Three 72-hour pump tests were conducted within each hydrologic interval. Changes in water levels within the three extraction wells and nine observation wells were measured during pumping tests using pressure transducers attached to a Hermit 3000 data recording device. An atmospheric transducer was also installed near the surface in one of the wells (MW-6) to monitor atmospheric pressure changes during the test. The data recorders were programmed to take readings at 1-minute intervals during the duration of the tests.

The extraction wells were screened at three different intervals: shallow, intermediate, and deep zones within the aquifer. The observation wells consisted of three well nests of three wells per nest. Each nest of wells contained a well screened in the shallow, intermediate, and deep zones of the aquifer. A plan of the extraction wells and observation wells is shown in Figure 2. The following table gives well numbers, locations, elevation of top of casing, depth to static water level, and the screened interval.

#### Table 1

| Well Number           | Northing | Easting  | Elevation<br>TOC<br>Ft. | Static W.L.<br>Depth in Ft.<br>bgs | Screen<br>Interval<br>Ft. bgs |
|-----------------------|----------|----------|-------------------------|------------------------------------|-------------------------------|
| Extraction<br>Wells:  |          |          |                         |                                    |                               |
| EX-2-S                | 9449.79  | 10336.29 | 3142.13                 | 111.10                             | 110-130                       |
| EX-2-1                | 9441.92  | 10348.0  | 3141.30                 | 110.33                             | 145-195                       |
| EX-2-D                | 9434.32  | 10358.44 | 3140.50                 | 110.0                              | 195-235                       |
| Observation<br>Wells: |          |          |                         |                                    |                               |
| MW-9-S                | 9495.90  | 10336.04 | 3142.47                 | 111.40                             | 112-132                       |
| MW-9-I                | 9480.50  | 10335.85 | 3142.35                 | 111.25                             | 170-190                       |
| MW-9-D                | 9464.69  | 10336.19 | 3142.13                 | 113.09                             | 216-236                       |
| OB-1-S                | 9380.09  | 10308.47 | 3142.71                 | 111.75                             | 110-130                       |
| OB-1-1                | 9378.57  | 10328.25 | 3142.31                 | 111.37                             | 175-195                       |
| OB-1-D                | 9362.49  | 10332.46 | 3141.98                 | 113.11                             | 215-235                       |
| OB-2-S                | 9377.06  | 10392.89 | 3139.59                 | 108.75                             | 110-130                       |
| OB-2-1                | 9377.94  | 10402.35 | 3138.63                 | 107.91                             | 172-192                       |
| OB-2-D                | 9377.88  | 10412.46 | 3138.11                 | 109.43                             | 215-235                       |

A 1.5-horsepower submersible pump was used to conduct the shallow zone pump test while a 20-horse power pump was used to conduct the pump tests in the intermediate and deep zones. A flow meter was installed at the well head to monitor the discharge rate. The discharge water was piped approximately 50 feet to a sanitary sewer manhole for disposal, as per permission by the City of Colby public works department.

# **TEST ACTIVITIES**

The deep zone pump test was conducted from August 1 to August 4, 2000 at a pumping rate of 105 gallons per minute (gpm). The test lasted for 68 hours and drawdown data from the deep zone monitoring wells initially indicated that this zone behaved like a semi-confined aquifer (larger drawdowns over time). However, some drawdown was measured in the shallow extraction well EX-2-S (0.25 ft) and the intermediate extraction well EX-21, (1.1 ft) immediately adjacent to the deep zone extraction well indicating significant vertical leakage from the overlying intervals.

The intermediate zone pump test was conducted from August 4 to August 7, 2000 at a pumping rate of 187 gpm. The test was conducted for 69 hours and up to 6.6 feet of drawdown was measured in the observation wells within the intermediate zone. Lesser amounts of drawdown were measured in EX-2S (2.2 ft) and EX-2D (2.4 ft), immediately adjacent to the intermediate pumping well. Negligible drawdowns were measured in the shallow observation wells and were not used in the pump test analysis because of the difficulty of filtering out the background aquifer fluctuations and atmospheric effects.

The shallow zone pump test was conducted from August 7 to August 10, 2000 at a rate of 30 gpm for 63 hours. Due to the limited zone of saturation within the upper portion of the aquifer, little to no drawdown was measurable in the observation and non-pumping extraction wells.

## **TEST LIMITATIONS**

The tests were limited by several factors; the pumping rate for each test could not exceed 150-200 gpm, the pumping tests were limited to a maximum of 72 hours, and the wells were constructed in the three distinct zones (partial penetration) because of analytical/treatment considerations. Also, difficulties occurred at the beginning of each test with relation to establishing a constant pumping rate that would yield sufficient drawdowns in the adjacent observation wells. As a result, the intermediate and deep zones may not have been stressed sufficiently and/or may not have been pumped long enough to generate a cone of depression that would yield precise estimates of transmissivity and specific yield. To compensate for uncertainties in early time data, the late time data was used to perform curve matching. Overall, late time data is considered more accurate in unconfined aquifers for estimating transmissivities and storage coefficients.

#### ANALYSES

Several methods of analysis were used to determine solutions that most closely matched the conditions within the aquifer at the Ace Services site. The aquifer is generally considered to be under unconfined flow conditions. As a result, the Neuman (1975) method is thought to best analyze pumping test data within unconfined aquifers. The Neuman method was implemented during analysis of the intermediate pump test data. The Neuman method assumes that:

- The aquifer is unconfined and has an "apparent infinite extent"
- The aquifer is homogeneous, isotropic, and of uniform thickness
- The well is pumped at a constant rate
- Well diameter is small, so well storage is negligible
- Flow is unsteady to the pumping well
- The well penetrates the entire aquifer

Several factors involved with the pump tests at the Ace Services site could cause significant variations with relation to evaluation of the data by the Neuman method. The biggest factor is that the pumping wells did not fully penetrate the aquifer. There are also large portions of the aquifer that are not homogeneous and isotropic.

The Moench method, derived from Neuman's solution, may be better suited to the testing conditions that occurred at the Ace Services site. The Moench method is an analysis used when partially penetrating conditions occur. The Moench method was also implemented during analysis of the data and assumes that:

- The aquifer is unconfined and has an "apparent infinite extent"
- The aquifer in homogeneous and isotropic
- The well is pumped at a constant rate
- Well diameter is small, so well storage is negligible
- Drawdown is small relative to saturated thickness

This method appeared to best suit the conditions of the pump test within the intermediate and deep zones.

However, due to the geologic conditions, mainly the presence of a clay layer that separated the intermediate and deep zones, the deep zone data was also analyzed by traditional methods typically applicable to confined or leaky confined aquifers (Cooper-Jacob method and the Hantush-Jacob method).

The traditional methods of time vs. drawdown and distance vs. drawdown assume:

- The aquifer is confined and has an "apparent" infinite extent
  - The aquifer is homogeneous, isotropic, and of uniform thickness
- The well is pumped at a constant rate
- The well is fully penetrating
- Water removed from storage is discharged instantaneously with decline in head

- Well diameter is small, so well storage is negligible
- The values of u are small (rule of thumb u < 0.01)

# TEST RESULTS

The deep zone pump test data were analyzed by the Cooper & Jacob time/drawdown, the Hantush & Jacob, and Moench methods. Results from the Cooper & Jacob method (Figure 3) yielded a transmissivity of 1,900  $Ft^2/day$ , the Hantush & Jacob method (Figure 4) yielded a transmissivity of 1,310  $Ft^2/day$ , and the Moench method (Figure 5) yielded a transmissivity of 1,610  $Ft^2/day$ . Horizontal hydraulic conductivities ranged from 10.4 to 15.4 ft/day.

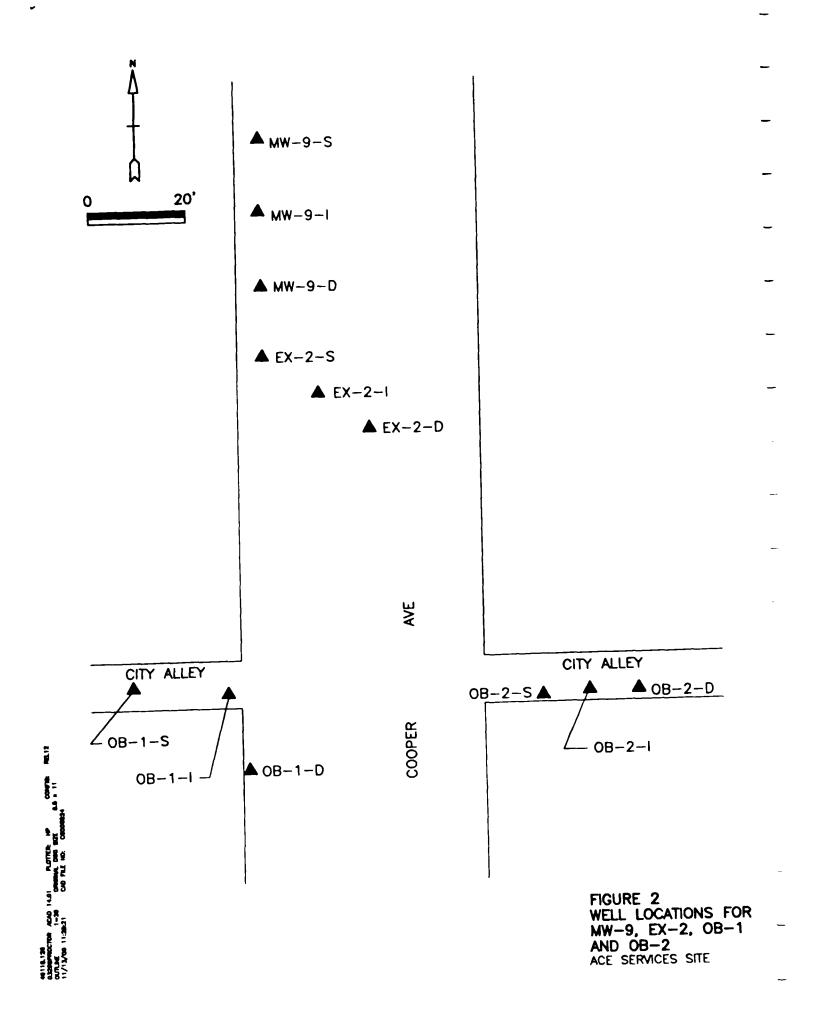
The Intermediate zone pump test data was analyzed by the Moench and Newman methods. Intermediate zone pump test data from shallow and intermediate observation wells, analyzed by the Moench method yielded transmissivities of 4,520 - 6,090 Ft<sup>2</sup>/day with storage coefficients of 0.11 to 0.20. Horizontal hydraulic conductivities ranged from 53.1 to 71.7 ft/day. Late time drawdown data from the shallow extraction well EX-2-S were used in the Moench analysis plots as illustrated in Figures 6, 7, and 8. This well was selected because it showed evidence of the delayed yield effects that were expected within the shallow zone during the test. The intermediate observation wells did not show any significant effects of delayed yield. Analysis of the late time data for the intermediate observation wells using the Neuman method, Figures 9 and 10, resulted in values of transmissivity and specific yield that were significantly lower than expected and much lower than published values for the aquifer.

The Neuman method of analysis was used for the intermediate zone pump test using shallow well drawdown data from EX -2S and MW-9S. The late-time data were graphically matched to the type curves and yielded a transmissivity of 2,940  $Ft^2/day$ . Horizontal hydraulic conductivities ranged from 17.9 to 34.6 ft/day. Neuman analysis of the intermediate observation well data yielded transmissivities of only 1,520  $Ft^2/day$ , significantly lower than expected. The values for the storage coefficient were not considered because the wells were partially penetrating.

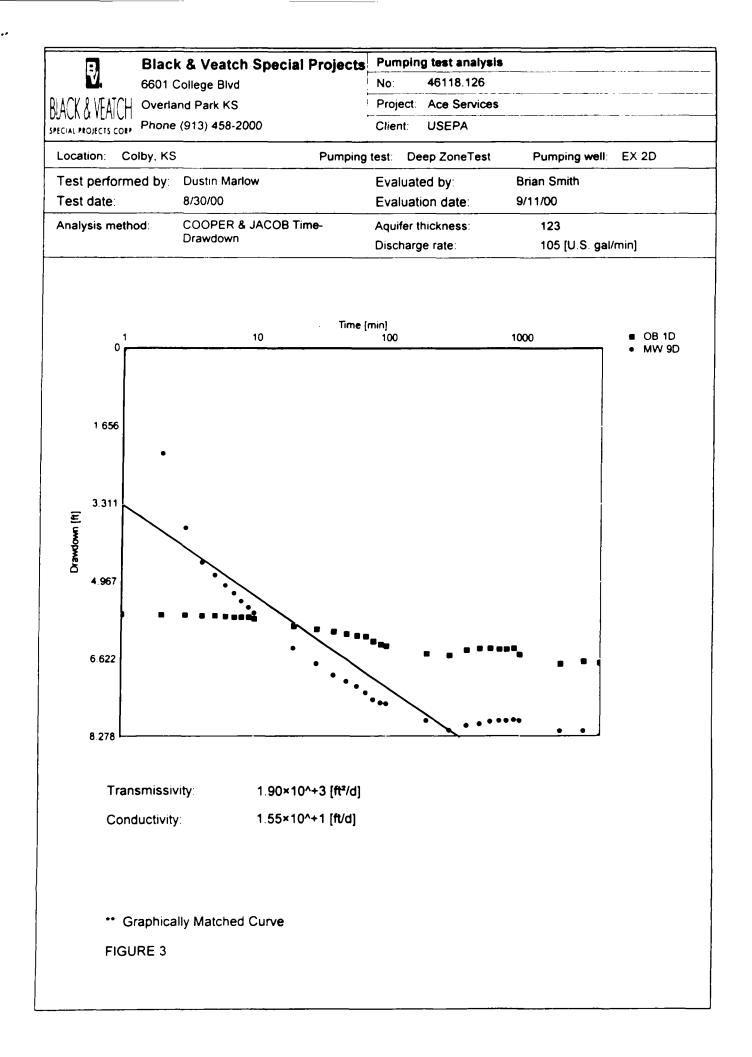
|                 |                | Solution Method<br>(Transmissivity, Ft <sup>2</sup> /day) |                  | /)            | Hydraulic                | Combined              |
|-----------------|----------------|-----------------------------------------------------------|------------------|---------------|--------------------------|-----------------------|
| Aquifer<br>Zone | Neuman         | Cooper<br>Jacob                                           | Hantush<br>Jacob | Moench        | Conductivity<br>(Ft/day) | <b>Transmissivity</b> |
| Intermediate    | 2,940<br>1,520 |                                                           |                  | 4,520 - 6,090 | 53.1 - 71.7              |                       |
| Deep            |                | 1,900                                                     | 1,310            | 1,610         | 10.4 - 15.4              | 6,682                 |

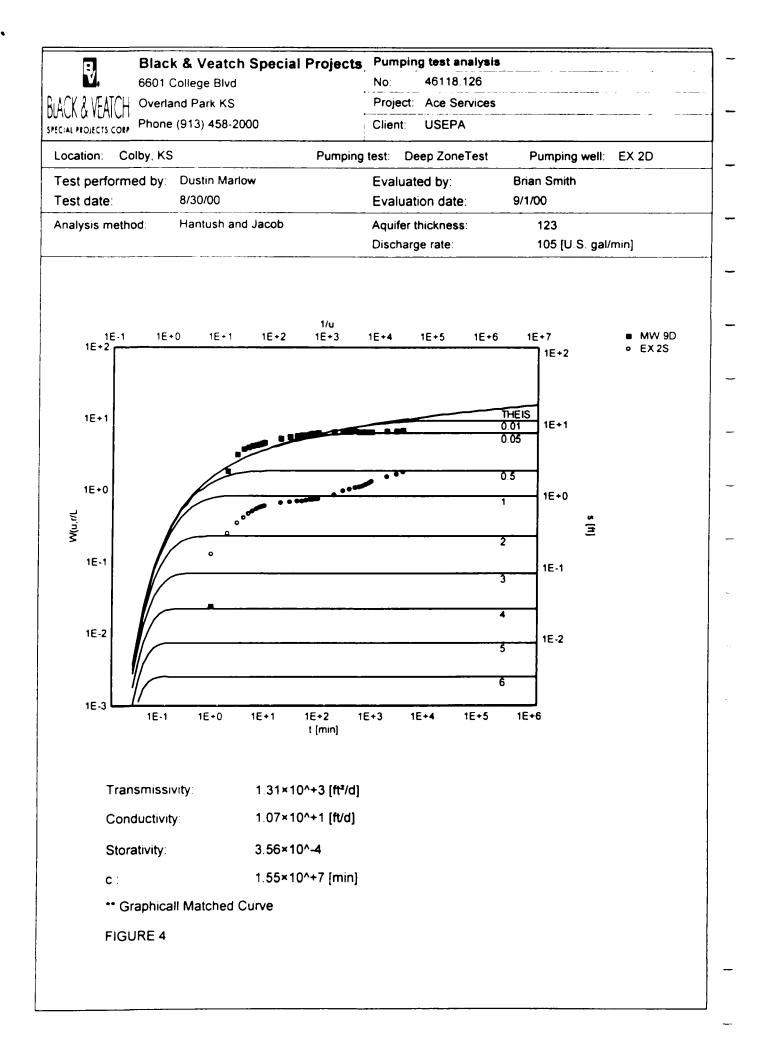
Table 2Transmissivity Summary Table

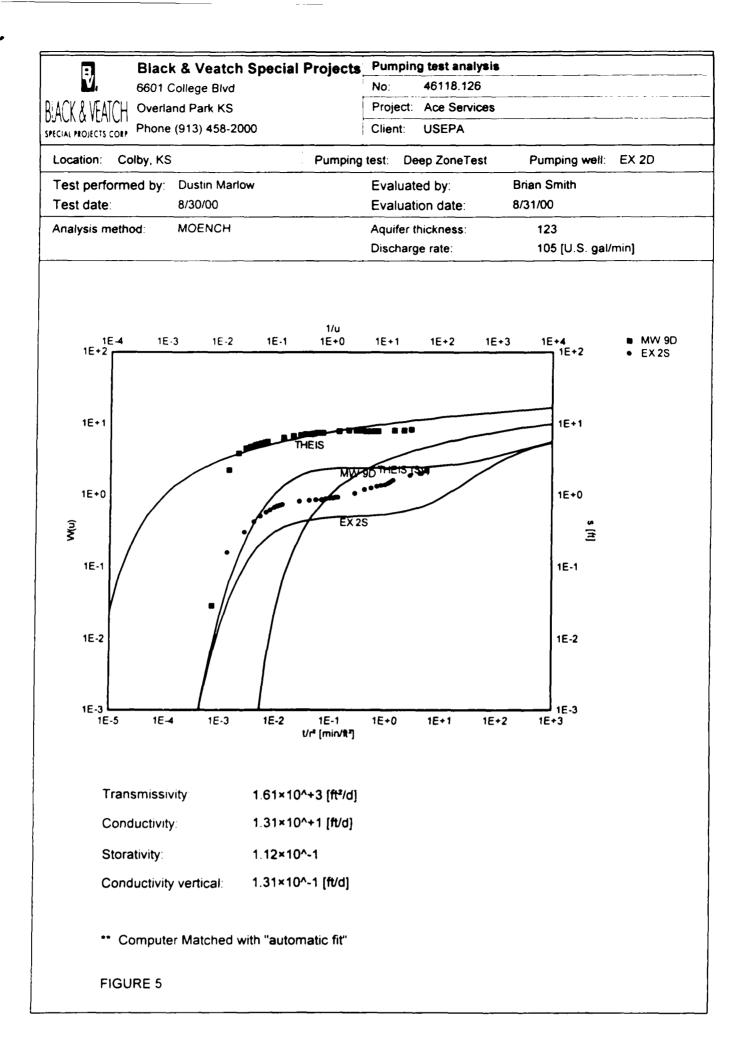
The aquifer pump tests were conducted at the Ace Services site under the assumption that there existed three distinct zones within the aquifer. However, results of the pump test analyses indicate that the High Plains aquifer at the Ace Services site may function as two distinct hydrologic zones, an upper zone (shallow and intermediate) and a lower (deep) zone. The fine grained clay-silty clay unit that separates the intermediate and deep zones appears to function as a leaky aquitard. Combining the average transmissivities of the upper (from Moench analysis) and lower zones arithmetically yields a value of approximately 6,682 Ft<sup>2</sup>/day (50,000 gpd/ft). This is consistent with published transmissivity values for this region of the High Plains Aquifer. The combined transmissivity and hydraulic conductivity values

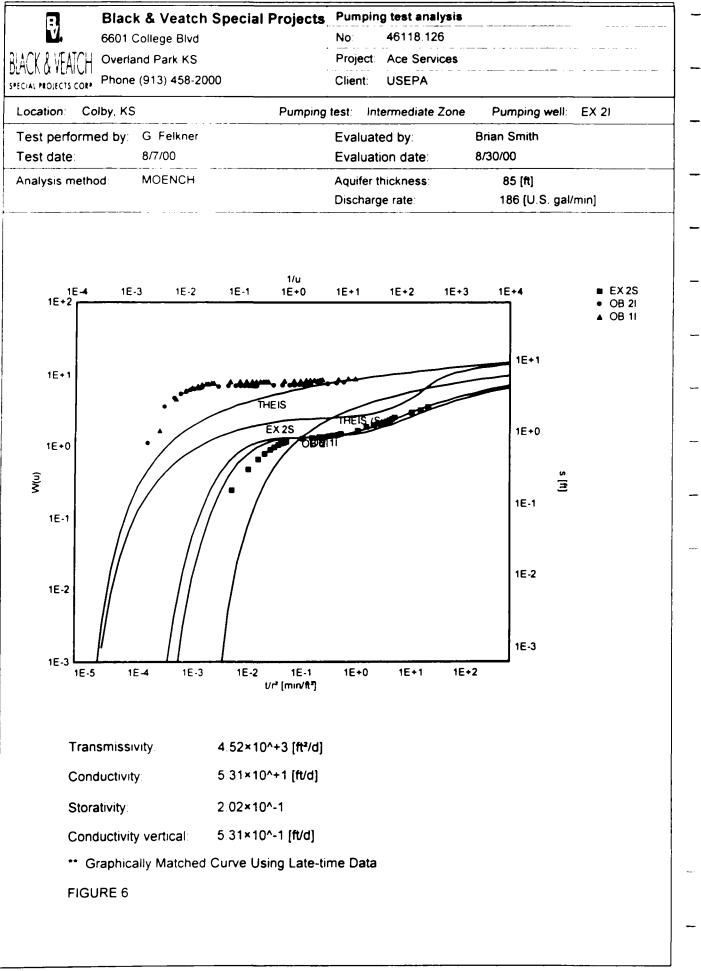


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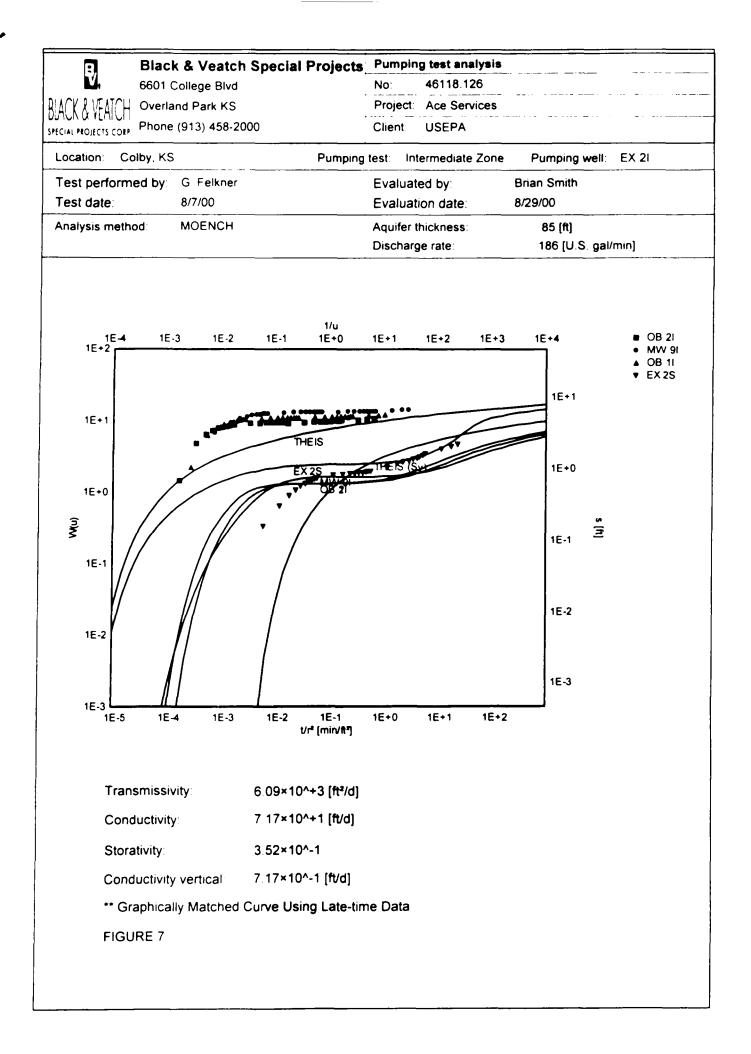


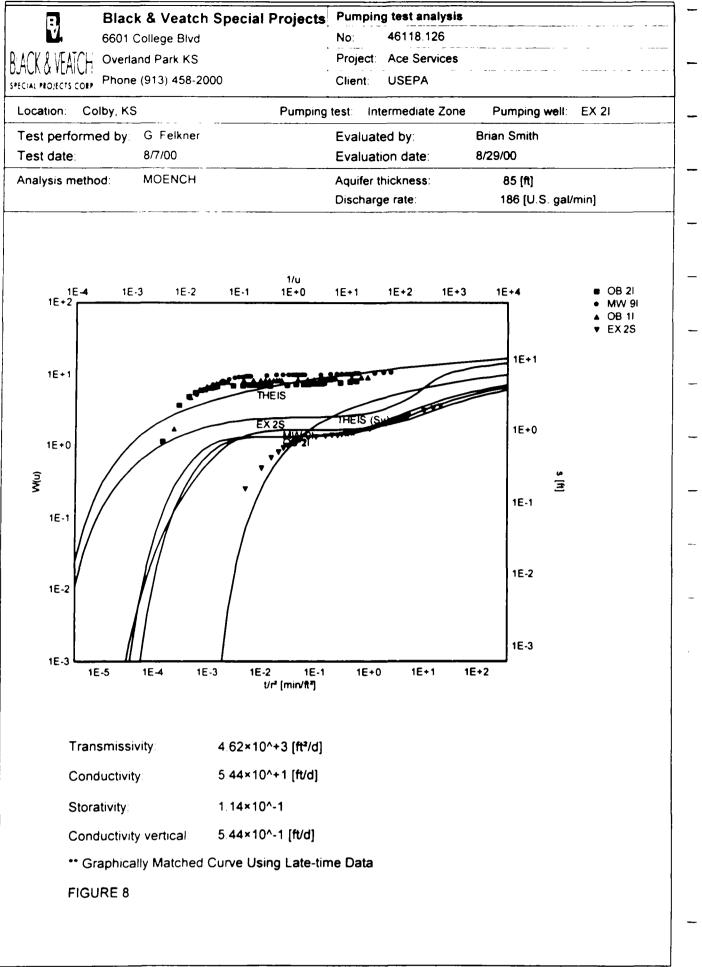


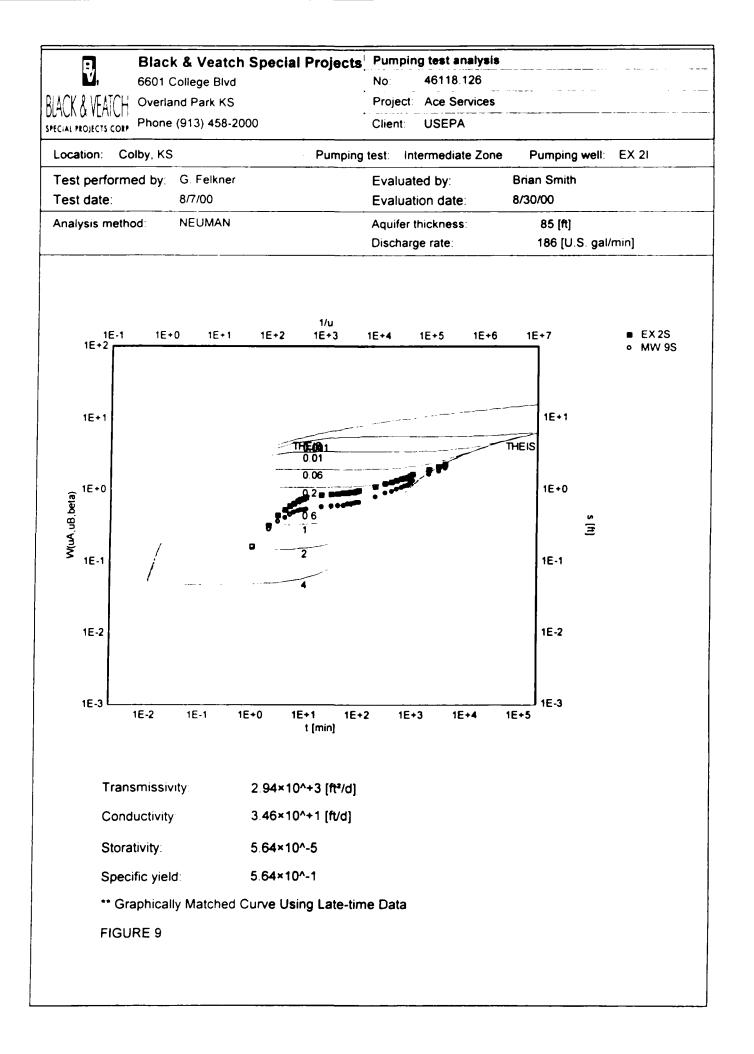




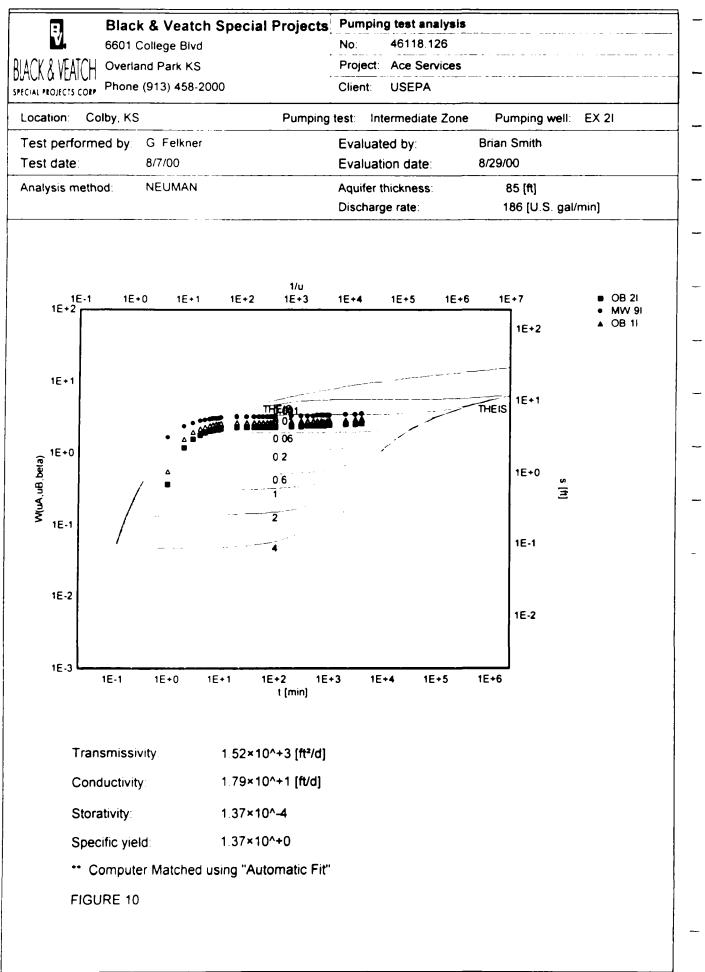
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from this analysis will be implemented into a finite difference ground water model to aid in the design of an optimum active remediation pump and treat system for the Ace Services site.

# REFERENCES

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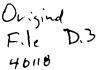
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Appendix I Groundwater Modeling Results



TECHNICAL MEMORANDUM

USEPA Ace Services Ground Water Modeling Activities

BVSPC Project 46118.126 J **BVSPC File D.3** December 14, 2000

#### **INTRODUCTION**

A record of decision (ROD) for the Ace Services site was signed on May 5, 1999 stipulating an active remediation pump and treat system be installed based on a ground water model developed in 1998. Following completion of this ROD, an additional phase of investigation work was conducted in late 1999 and this new data indicates that a larger and more vertically complex plume of chromium contamination is present at the Ace Services site. To investigate this new information and provide a more accurate design basis for the pump and treat remediation system, vertically stratified pumping tests within the observed contaminated water column were performed in August 2000. These pumping tests confirm that the aquifer system exhibits a large amount of vertical heterogeneity and that the ground water contamination at the Ace Services site is vertically distributed. Therefore as part of the required modifications to the original ROD, a new ground water model was constructed to more accurately simulate the vertical flow component within the aquifer system at the site and provide input for evaluating potential remedial designs for capturing and remediating the chromium plume. The primary objectives of this new modeling effort were the following:

- Develop a ground water flow model capable of simulating the observed vertically stratified flow within the aquifer.
- Incorporate the recently collected pumping test data into the ground water flow model and calibrate this model using the pumping test results.
- Determine an effective extraction well configuration to capture the observed chromium plume.
- Determine an effective pumping rate for the selected extraction well configuration.
- Estimate the potential duration of the pump and treat remediation effort.

To accomplish these objectives, MODFLOW, a three-dimensional finite difference ground water flow model was used to simulate ground water flow and estimate the aquifer response to various ground water remediation strategies. MODPATH, a three dimensional advective particle transport program was used in combination with MODFLOW to more accurately estimate extraction well capture zones by tracking individual particles within the simulated flow field. GMS, Ground Water Modeling Software, originally developed by the Department of Defense, was utilized as a pre- and post-processor to expedite model runs and to generate ground water contour maps showing modeling results and well field configurations.

## **REGIONAL HYDROGEOLOGY**

The average saturated thickness of the High Plains aquifer in Kansas is approximately 90 feet. Water in the High Plains aquifer generally is under unconfined conditions. However, in some locations, water levels in wells completed in portions of the aquifer may rise or fall slightly in relation to the regional water table because of artesian pressure created by local confining beds. Generally the ground water gradient within the aquifer is from west to east. Water moves in response to the gradient of the water table, which typically averages between 10 to 15 feet per mile. On the basis of these average gradients and aquifer hydraulic properties, the regional velocity at which water moves through the aquifer is estimated to average about 1 foot per day. Transmissivity values within the High Plains aquifer typically range from 40,000 to 60,000 gallons per day/ft with storage coefficients ranging from 0.14 to 0.27 (Miller and Appel, U.S.G.S Ground Water Atlas, 1997).

## SITE HYDROGEOLOGY

Aquifer testing was conducted at the Ace Services site under the assumption that three distinct water bearing zones were present. However, based on the results of the pumping tests performed at the site

(Pumping Test Technical Memorandum, BVSPC, October 2000), the High Plains aquifer at the Ace Services site appears to function as two distinct hydrologic zones, an upper zone consisting of shallow and intermediate ground water and a lower zone consisting of deep ground water. A fine grained clay/silty clay unit that separates the upper and lower zones and appears to function as a leaky aquitard. Water levels recorded during the remedial investigation indicate a slightly downward vertical gradient within the aquifer surrounding the Ace Services site. Locally, ground water flows to the east-southeast at horizontal gradients ranging from 0.0022 – 0.0032 ft/ft. Continuous water level monitoring conducted prior to the pumping test activities indicates that the upper zone within the aquifer follows typical unconfined aquifer behavior. However, continuous ground water monitoring data collected from the lower zone suggests that this zone behaves as a semi-confined aquifer. This is demonstrated by observed diurnal fluctuations in hydraulic head in the deep zone wells due to the hydraulic influence of water supply wells in the vicinity of the Ace Services site. Diurnal fluctuations in hydraulic head were not observed in nested shallow and intermediate wells.

#### MODEL ASSUMPTIONS

Ground water modeling requires a set of assumptions to simplify the modeling effort in order to approximate the complexities associated with ground water flow. Simplifying some of the uncertainties of the system allows for the model to come to an accurate solution. The following assumptions were used to develop the Ace Services site ground water flow model:

- Water level data collected from nested monitoring wells at the site indicate ground water flow to the east-southeast. The data also indicate that a downward vertical gradient exists across the site. The geology within the saturated and contaminated portion of the aquifer consists of interbedded zones of sands, silty sands, gravels and a realitively consistent silty clay layer that separates the intermediate and deep water bearing zones. These hydrogeologic conditions were approximated by four model layers. Layer 1 represented the shallow zone. Layer 2 represented the intermediate zone. Layer 3 represented the silty clay leaky confining layer. Layer 4 represented the deep zone. Representing the site hydrogeology with four model layers allowed for the simulation of a vertical gradient and the stratification of aquifer properties and ground water extraction.
- Hydraulic conductivities used in the model were based on the pumping test data conducted in August, 2000. However the hydrologic data calculated from the shallow zone pumping test was determined to be unrepresentative of site conditions and was not used in the model. The small magnitudes of drawdown observed during the shallow zone test did not allow for accurate curve matching to derive an accurate solution for transmissivity. Also, the analytical solutions derived from data collected from the deep zone pump test appeared low in relation to published values. As a result, the horizontal hydraulic conductivity value from the intermediate test was used as a starting value and the values for the upper and lower layers were estimated as a percentage thereof based on lithology and well yields from the shallow and deep extraction wells. Hydraulic conductivity values of 37 ft/day (layer 1), 62 ft/day (layer 2), and 43 ft/day (layer 4) were used to simulate flow within the shallow, intermediate, and deep zones respectively. Vertical hydraulic conductivity values were estimated as K<sub>b</sub>/10. Layer 3 was simulated as a leaky-confining unit and the hydraulic conductivities of this layer were determined during model calibration. The leaky-confining unit was modeled over the entire domain of the model but may only be present in the vicinity of the site. To test the validity of these model assumptions, the model was calibrated in both steady-state and transient mode.
- The aerial and vertical extent of the contamination was assumed to be that which is defined in the technical memorandum for remedial design activities, (BVSPC, March 29, 2000). However, the actual downgradient extent of the plume and the extent of the 100 ug/L contour line representing the MCL for chromium has not been completely defined along the southern plume boundary or at the downgradient edge of the plume due to property access constraints.
- It has been assumed that proposed new nested monitoring wells installed along the southern plume boundary and at the downgradient plume edge will not show high (>500 ppb Cr) levels of contamination.
- It has been assumed that no additional source areas exist downgradient of the site.

#### **MODEL DOMAIN AND BOUNDARY CONDITIONS**

The model domain is approximately 5 miles by 4 miles with the long axis (parallel to ground water flow direction) oriented approximately 104 degrees from north. The model boundaries were extended far from the site to ensure that the boundary conditions had negligible impact on the model simulations. Figure 1 shows the model domain in relation to the Ace Services site. The model grid consists of 110 columns and 85 rows with 4 layers. Grid spacing near extraction well locations was set at 10 ft by 10 ft and expanded outward in increments of 1.5 to a maximum of 1000 feet in the x-direction and to a maximum of 500 feet in the y-direction. Constant head values were assigned at the northwest and southeast boundaries to simulate ground water entering and discharging from the model domain. No-flow boundaries were assigned to the northern and southern boundaries because ground water flow is essentially parallel to these boundaries. Ground water recharge from leakage through the overlying strata was input to the top of layer 1. A value of 0.05 in/year was assigned to the model based on published recharge data for the High Plains aquifer.

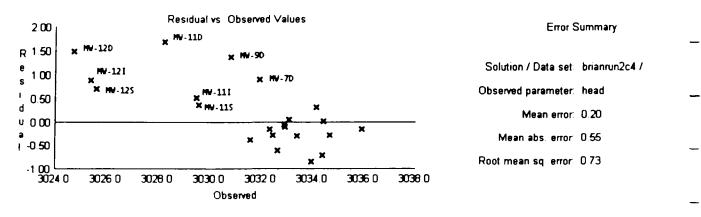
## **MODEL CALIBRATION**

The model was calibrated in two steps through both steady-state and transient simulation. In the first step, appropriate head values were input for each constant head boundary and the model was run under steadystate conditions. The modeled heads were then compared to the observed head values collected from monitoring wells at the site prior to the pump test in August 2000. Figure 2 shows the modeled simulated ground water contours with no wells pumping. Hydrogeologic parameters (constant head, recharge, horizontal and vertical hydraulic conductivity) were adjusted until the calibration error was minimal. Table 1 shows the results of the steady-state model calibration. This first part of the calibration resulted in a ground water gradient of 0.0023. Figure 3 shows a comparison between observed heads and modeled residual values (the difference between the measured heads and the modeled heads). The residual head values show that the recharge and hydraulic conductivity values (calculated from the pumping test data) used in the calibration process are representative of site conditions and did not have to be adjusted during calibration.

A trend was observed during the steady-state calibration: the modeled heads on the north and western sides of the site were lower than the observed heads and the modeled heads on the far downgradient side of the site (the labeled wells) and were significantly higher than the observed heads. The magnitude of the error appeared to be skewed by the differences in head within the deep wells (layer 4) along the eastern end of the site. One explanation might be changes in lithology, which might influence the hydraulic conductivity within and between the intermediate (layer 2) and deep (layer 4) zones of the aquifer. However, subsurface geological data does not indicate significant changes in aquifer material across the site. Another possible explanation is the position of the well screens of the monitoring wells on the western side of the site. The intermediate and deep monitoring wells at well nests at MW-2 are screened very close together and have the smallest vertical hydraulic gradient. The intermediate and deep wells at well nest MW-1 are screened at higher elevations so the wells may in fact be screened in the same hydrologic zone (intermediate). These differences in head do not significantly impact the flow model.

The second part of the calibration involved inputting calibrated steady-state head values into a transient simulation identical to the 72-hour pumping tests that were conducted within the intermediate and deep water bearing zones in August 2000. During this part of the calibration, the coefficient of storage and specific yield values were adjusted within those layers to best match the observed aquifer response during each pumping test. The transient calibration data confirm that the hydraulic conductivity and recharge values used in the model accurately simulated flow within the aquifer. Table 2 shows the results of the transient calibrations.





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| Table 1                    |    |
|----------------------------|----|
| MODFLOW Calibration Result | is |

| WELL   | MODEL  | OBSERVED | RESIDUAL | RESIDUAL |
|--------|--------|----------|----------|----------|
|        | HEAD   | HEAD     | HEAD     | SQUARED  |
|        |        |          |          |          |
| MW-IS  | 3035.8 | 3035.9   | -0.10    | 0.01     |
| MW-2S  | 3034.4 | 3034.7   | -0.3     | 0.09     |
| MW-21  | 3034.4 | 3034.41  | 0.01     | 0.0001   |
| MW-2D  | 3034.4 | 3034.1   | 0.3      | 0.09     |
| MW-4S  | 3032.0 | 3032.6   | -0.6     | 0.36     |
| MW-6S  | 3033.7 | 3034.4   | -0.7     | 0.49     |
| MW-7S  | 3032.8 | 3032.9   | -0.1     | 0.01     |
| MW-71  | 3032.8 | 3032.9   | -0.1     | 0.01     |
| MW-7D  | 3032.8 | 3031.9   | 0.9      | 0.81     |
| MW-8S  | 3033.1 | 3033.9   | -0.8     | 0.64     |
| MW-81  | 3033.1 | 3033.4   | -0.3     | 0.09     |
| MW-8D  | 3033.1 | 3033.14  | 0.04     | 0.0016   |
| MW-9S  | 3032.2 | 3032.3   | 01       | 0.01     |
| MW9I   | 3032.1 | 3032.4   | 03       | 0.09     |
| MW-9D  | 3032.1 | 3030.8   | 1.3      | 1.69     |
| MW-11S | 3030.0 | 3029.5   | 0.5      | 0.25     |
| MW-111 | 3029.9 | 3029.6   | 0.3      | 0.09     |
| MW-11D | 3029.9 | 3028.2   | 1.7      | 2.89     |
| MW-12S | 3026.3 | 3025.6   | 0.7      | 0.49     |
| MW-121 | 3026.2 | 3025.4   | 0.8      | 0.64     |
| MW-12D | 3026.2 | 3024.7   | 1.5      | 2.25     |

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| WELL  | MODEL   | OBSERVED | RESIDUAL | RESIDUAL |
|-------|---------|----------|----------|----------|
|       | HEAD    | HEAD     | HEAD     | SQUARED  |
| OB-21 | 3027.19 | 3026.96  | 0.231    | 0.053    |
| OB-11 | 3027.36 | 3026.36  | 1.0      | 1.0      |
| MW-91 | 3024.73 | 3025.46  | -0.72    | 0.518    |
| OB-1D | 3025.98 | 3025.37  | 0.617    | 0.38     |
| OB-2D | 3025.65 | 3025.56  | 0.098    | 0.0096   |
| MW-9D | 3023.67 | 3023.77  | 0.10     | 0.01     |

Table 2 Transient Calibration Results

# SENSITIVITY ANALYSIS

After the model was calibrated, a sensitivity analysis was conducted to evaluate the model uncertainty. Hydraulic conductivity and aquifer recharge were both increased and decreased by factors of 25 and 50 percent, and the residual sum of squares (difference or residual between the measured and the modeled head values squared) was calculated. The results of the sensitivity analysis are shown on Table 3. These results indicate that the calibrated model has the best match. The sensitivity results also indicate that the model is most sensitive to changes in hydraulic conductivity.

Table 3Model Sensitivity Analysis

|                  |                 | RESIDUAL SUM OF SQUARES (FT <sup>2</sup> ) |
|------------------|-----------------|--------------------------------------------|
| Calibrated Model |                 | 0.69                                       |
| Hydraulic Condu  | ctivity +/- 25% | 0.88                                       |
| Hydraulic Conduc | ctivity +/- 50% | 1.18                                       |
| Recharge         | +/- 25%         | 0.78                                       |
| Recharge         | +/- 50%         | 0.80                                       |

# **EXTRACTION WELLFIELD DESIGN EVALUATION**

Following calibration of the MODFLOW model, an active ground water extraction scheme was developed for containment and remediation of the contamination at and down gradient from the Ace Services site. Well locations were selected by incorporating property access considerations, position within the known extent of contamination, and pumping rate required to actively remediate the contamination. Property access was a major factor in extraction well location selection to minimize cost and property agreement delays.

Both MODFLOW and MODPATH programs were used to optimize extraction well locations and pumping rates. Ground water pumping rates were simulated at different locations within the different model layers using the calibrated steady-state heads to generate ground water contour plots for each layer. A set of optimal pumping scenarios were developed and used by the MODPATH particle tracking program to

further define extraction well positions and pumping rates. Particle travel times of 3 years were used as a benchmark when considering the well locations for active contaminant removal. The three year time period was used because most of the extraction well locations simulate capture of the edges of the 100 ug/L plume in less than 2 years. However, certain well locations require a minimum of 3 years to capture ground water from the edges of the 100 ug/L contour, indicating that it will require approximately 3 years to remove one pore volume within the area encompassed by the plume.

As outlined in the Technical Memorandum for Remedial Design (BVSPC, March, 2000), three distinct zones of contamination were identified through the sampling activities. The largest aerial extent of chromium contamination occurs within the intermediate zone of the aquifer. This zone will also require the greatest number of extraction wells to capture the contamination. The shallow zone and the deep zone will require a fewer number of extraction wells. The proposed total combined pumping rate and the proposed number of extraction wells differs significantly from the original FS modeling study due primarily to the large increase in the vertical and lateral extent of the plume.

Simulations within the shallow zone (layer 1) resulted in three optimal pumping scenarios that would sufficiently capture the maximum extent of contamination in an acceptable time frame. One limitation within the upper most portion of the aquifer is saturated thickness. Within the upper zone (layer 1) there exists only 30-35 feet of saturation. As a result, ground water extraction rates are limited to the 20 to 30 gpm range in order to maintain a steady pumping rate. These lower extraction rates limit the cone of influence generated by the extraction wells. Figures 4, 5, and 6 show the optimum well configurations and pumping rates predicted within the shallow zone of the aquifer. It should be noted however that these scenarios, simulated by extracting water from the shallow zone (layer 1), will be accomplished in the field by extraction wells screened within both the shallow and intermediate zones. The total pumping rate expected to capture and contain the shallow zone contamination is expected to be 65 - 85 gpm. It should be noted that the 25 gpm that is simulated at the PWS-8 well location may vary because the actual discharge from the upper zone during pumping at PWS-8 has not been determined.

Four optimal pumping scenarios were developed for the intermediate zone (layer 2) remediation. The intermediate zone is the most transmissive interval within the aquifer in the vicinity of the site. Figures 7, 8, 9, and 10 show the well configurations and pumping rates that most efficiently capture the contamination within the intermediate zone. A series of 5 or 6 extraction wells was used to maximize the area of capture and minimize the time required for treatment of the entire plume. The extraction well east of the plume, as shown in Figures 7, 8, and 9, is not located within the 100 ug/L contour. This additional well was simulated because of data from the residential wells indicates the presence of contamination, but the vertical distribution of the contamination in this area is not known because the residential wells are screened within multiple zones. Extraction well discharge rates vary from 35 gpm to 100 gpm depending upon the zone of capture. The predicted total discharge of 50 gpm that is simulated from the intermediate zone of PWS-8 may vary due to the lack of information on that multi-screened well. The majority of the contaminant load for the treatment plant will come from the intermediate zone.

The simulated extent of capture within the deep zone (layer 4) is illustrated in Figures 11 and 12. Pumping rates vary from 35 to 100 gpm depending upon the position within the plume. Cones of influence are much larger within this zone because it behaves as a semi-confined zone within the aquifer. Estimated total discharge expected to actively remediate the deep zone range from 185 to 300 gpm. The discharge from the lower screen zone within PWS-8 was estimated and contributes to the uncertainty of the actual pumping rates that will be required within the deep zone.

#### **EXTRACTION WELLFIELD DESIGN RECOMMENDATIONS**

The well configuration shown on Figure 13 illustrates the optimal shallow zone pumping scheme. Extraction wells EX-2S and PWS-8 have already been installed, therefore shallow wells EX-3S and EX-4S will need to be installed.

The optimal extraction well scheme for the intermediate zone is shown on Figure 14. This scheme incorporates 6 wells pumping at a combined total of 335 gpm. Wells EX-21 and PWS-8 were installed during the remedial design investigation and pumping test activities. Wells EX-11, EX-31, EX-41, and EX-51 will need to be installed in the intermediate zone with an option for a seventh well. This optional well may be installed east of EX-51 if additional analytical data indicate that the extent of the plume is further east than presently indicated.

Figure 15 shows wells EX-1D, PWS-8, EX-2D, and EX-3D pumping a total of 260 gpm for complete capture of the deep zone contamination. Well EX-1D and EX-3D will need to be installed. Wells EX-2D and PWS-8 are already installed.

The proposed configuration for all of the extraction wells is illustrated on Figure 16, assuming property access is granted for each location. Proposed extraction well design specifications are presented in Table 4. This report estimates a total extraction rate of approximately 690 gpm. At this pumping rate it is expected that one pore volume of the aquifer will be removed approximately every 3 years. However, it is common to require flushing several (3 to 5) pore volumes through contaminated media to reduce contaminant concentrations to cleanup goals. The total time to actively remediate the chromium contamination to acceptable levels is estimated to be approximately 12 years. Due to the variability within the multi-layered aquifer with respect to both the horizontal and vertical distribution of contaminants, it is recommended that the final plant design influent rate incorporate some flexibility to allow for a 15% to 20% increase in flow. Should the results of this modeling study be incorporated into a final design, 8 additional extraction wells at four different locations (2 shallow, 4 intermediate, and 2 deep) will be needed to be installed to ensure that contaminant capture is occurring and to monitor contamination reduction. The total number and final pumping rates of the extraction wells required to meet the site remediation objectives may differ from the predictions presented in this report.

## **REFERENCES**

Black & Veatch, October, 2000, Pumping Test Memorandum, Ace Services, Colby, Kansas, USEPA Technical Memorandum.

Black & Veatch, March 29, 2000, Remedial Design Sampling Activities, Ace Services, Colby, Kansas, USEPA Technical Memorandum.

Miller, J.A., and Appel, C.L., 1997, Ground Water Atlas of the United States, Kansas, Missouri, Nebraska, U.S. Geological Survey Hydrologic Atlas 730-D.

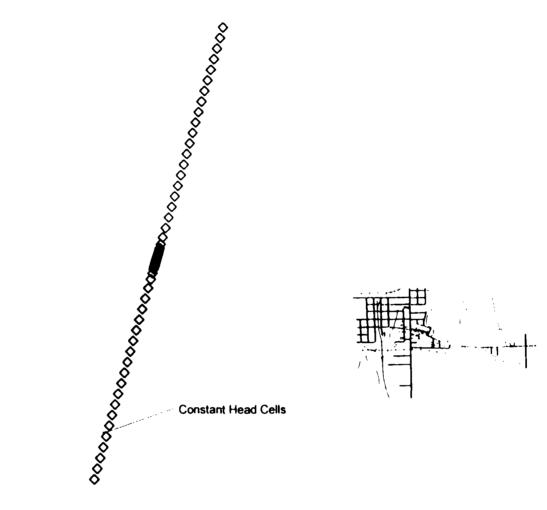
 Table 4

 Proposed Extraction Well Design Specifications

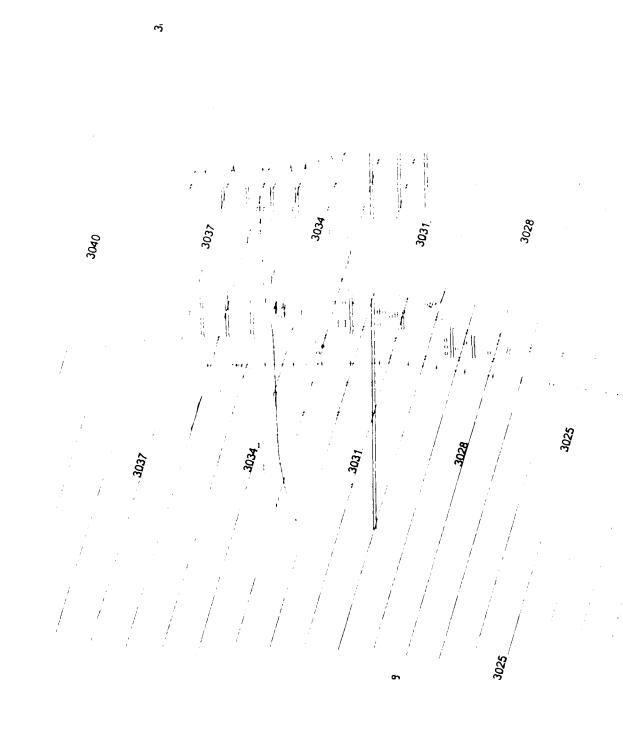
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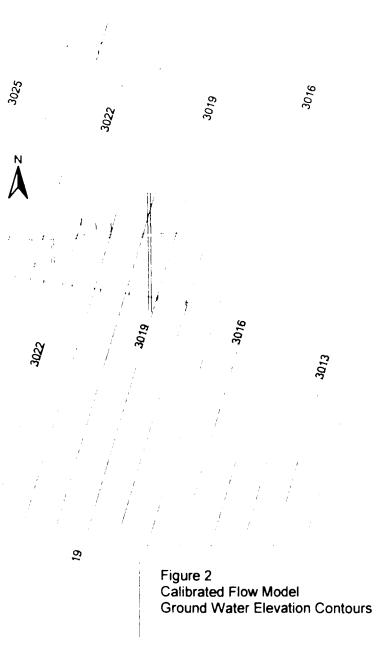
| Extraction<br>Well | Screened Interval (bgs)<br>(aquifer zone)                                                       | Pumping<br>Rate (gpm) | Well<br>Diameter<br>(inches) |
|--------------------|-------------------------------------------------------------------------------------------------|-----------------------|------------------------------|
| EX-11              | 165' - 195' intermediate                                                                        | 35 gpm                | 8"                           |
| EX-1D              | 210' – 235' deep                                                                                | 35 gpm                | 8"                           |
| PWS-8              | 128' – 138' shallow<br>145' – 150' intermediate<br>190' – 200' intermediate<br>215' – 240' deep | 145 gpm               | 12"                          |
| EX-2S              | 100' - 130' shallow                                                                             | 25 gpm                | 6"                           |
| EX-2I              | 145' - 195' intermediate                                                                        | 100 gpm               | 8"                           |
| EX-2D              | 195' – 235' deep                                                                                | 100 gpm               | 8"                           |
| EX-3S              | 120' - 140' shallow                                                                             | 25 gpm                | 6"                           |
| EX-3I              | 150' - 200' intermediate                                                                        | 50 gpm                | 8''                          |
| EX-3D              | 210' – 230' Deep                                                                                | 50 gpm                | 8"                           |
| EX-4S              | 110' - 140' shallow                                                                             | 25 gpm                | 6''                          |
| EX-41              | 180' - 200' intermediate                                                                        | 50 gpm                | 8"                           |
| EX-5I              | 170' - 200' intermediate                                                                        | 50 gpm                | 8"                           |
| Total              | Well Field Pumping Rate                                                                         | 690 gpm               |                              |

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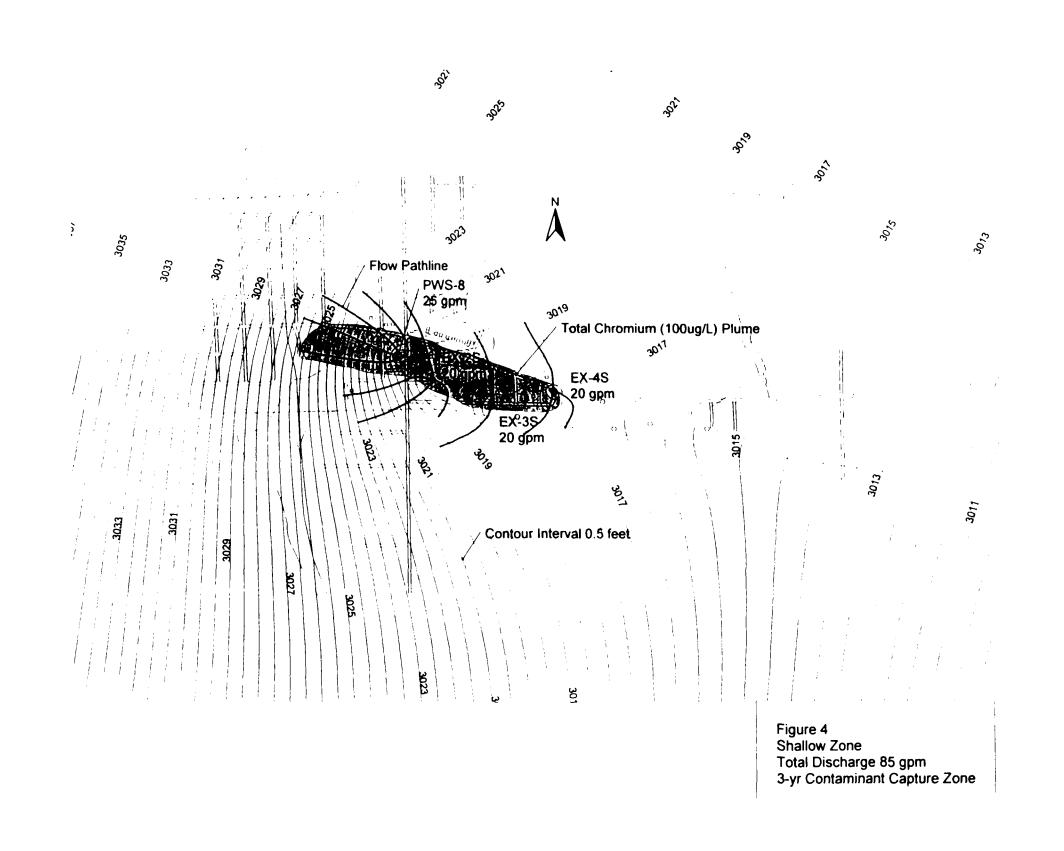


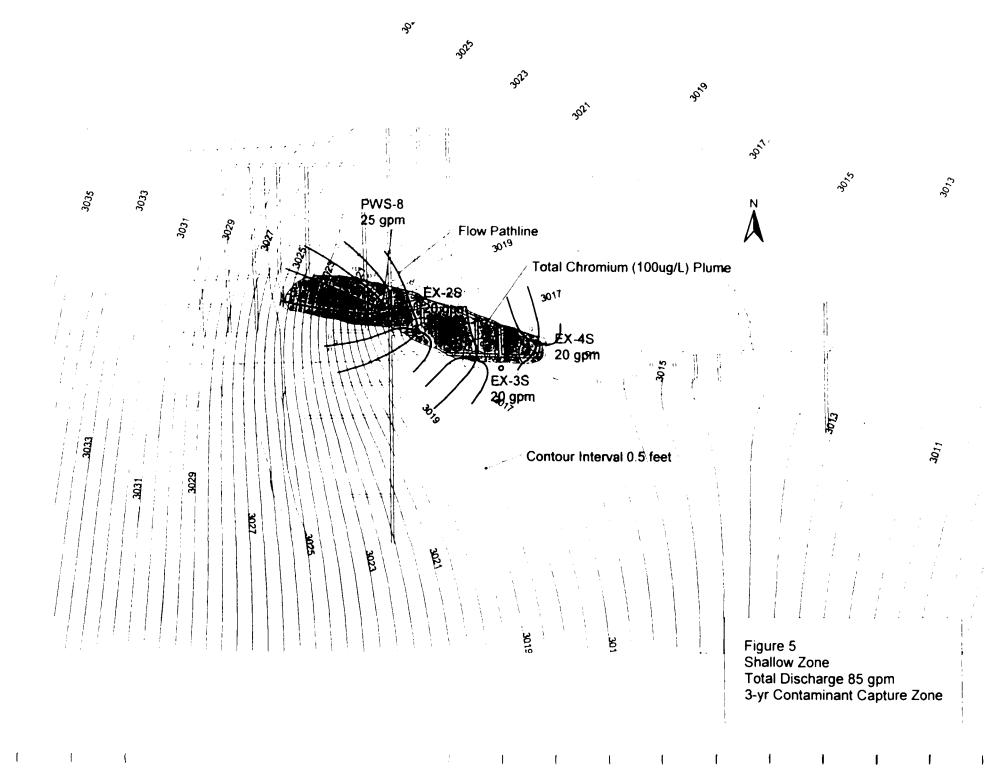


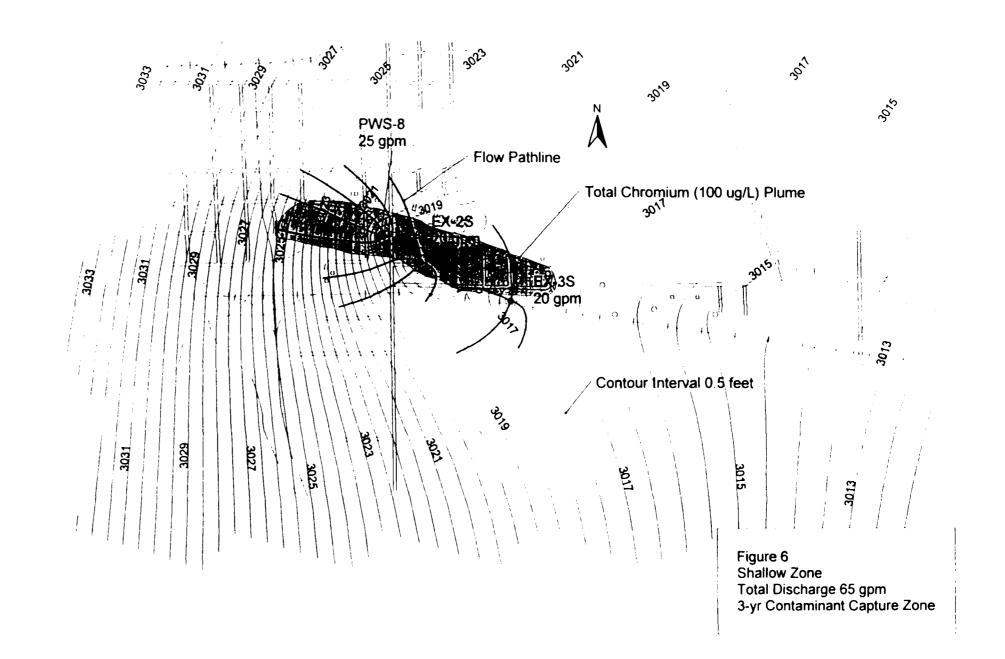


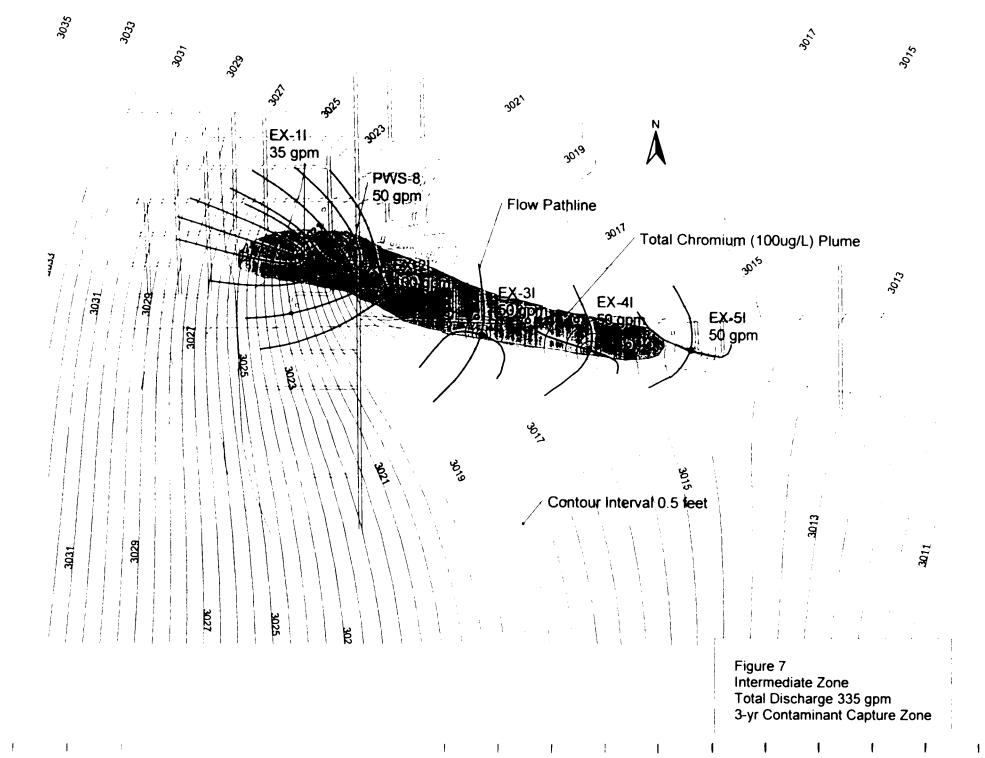


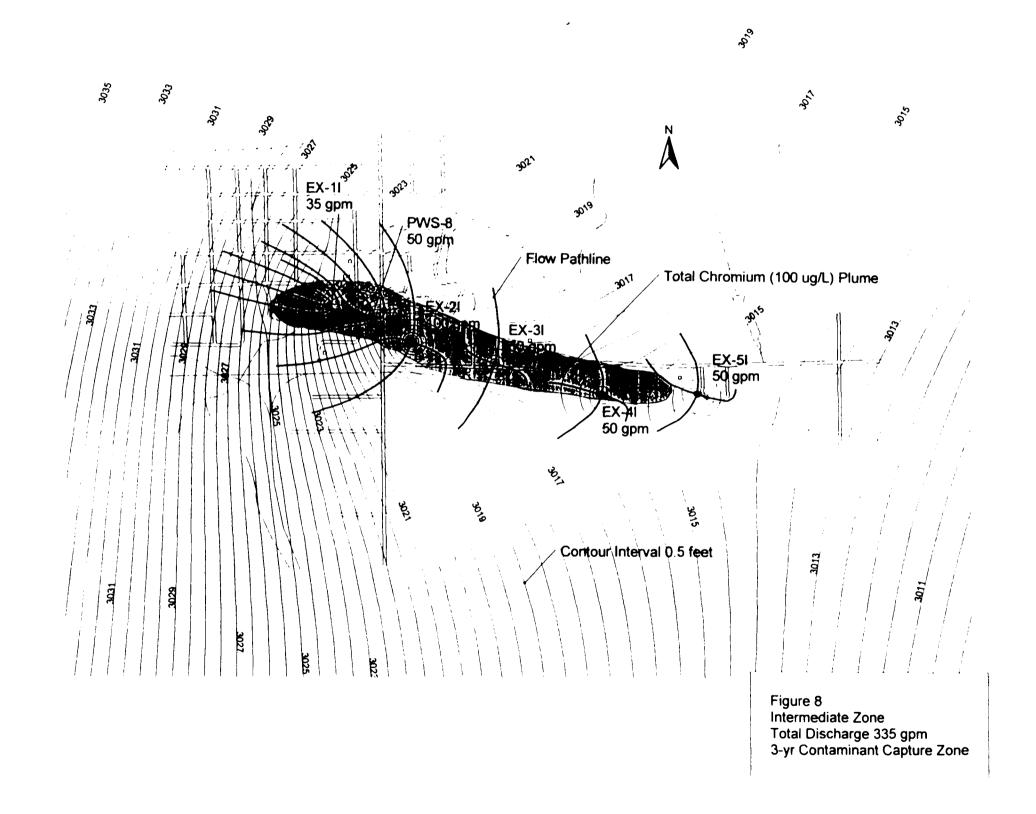
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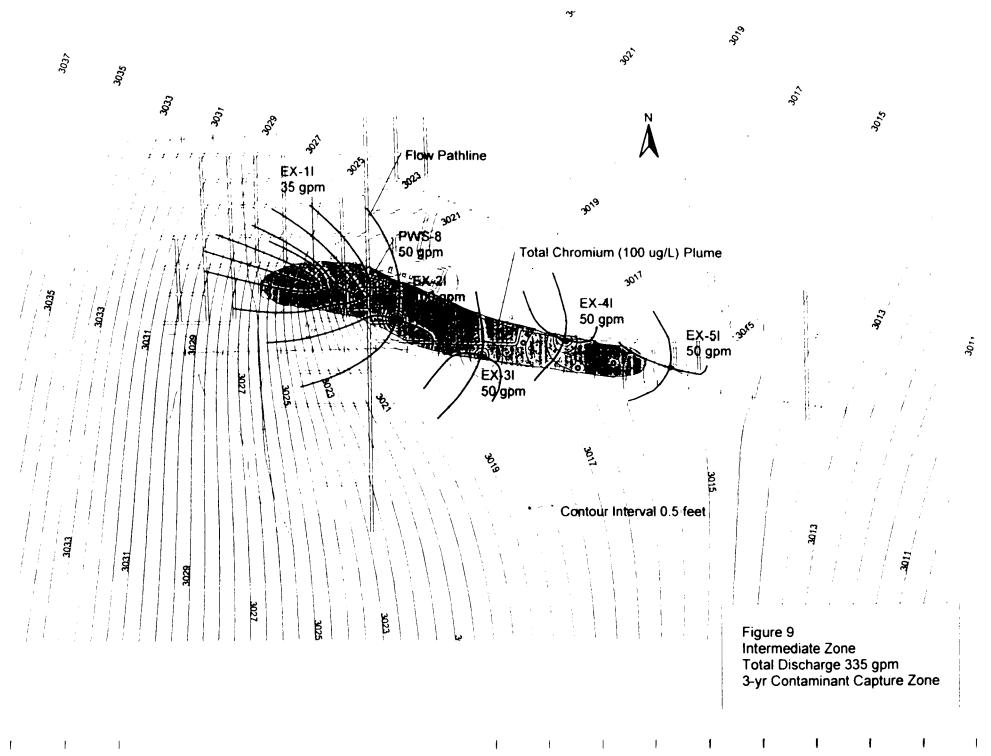


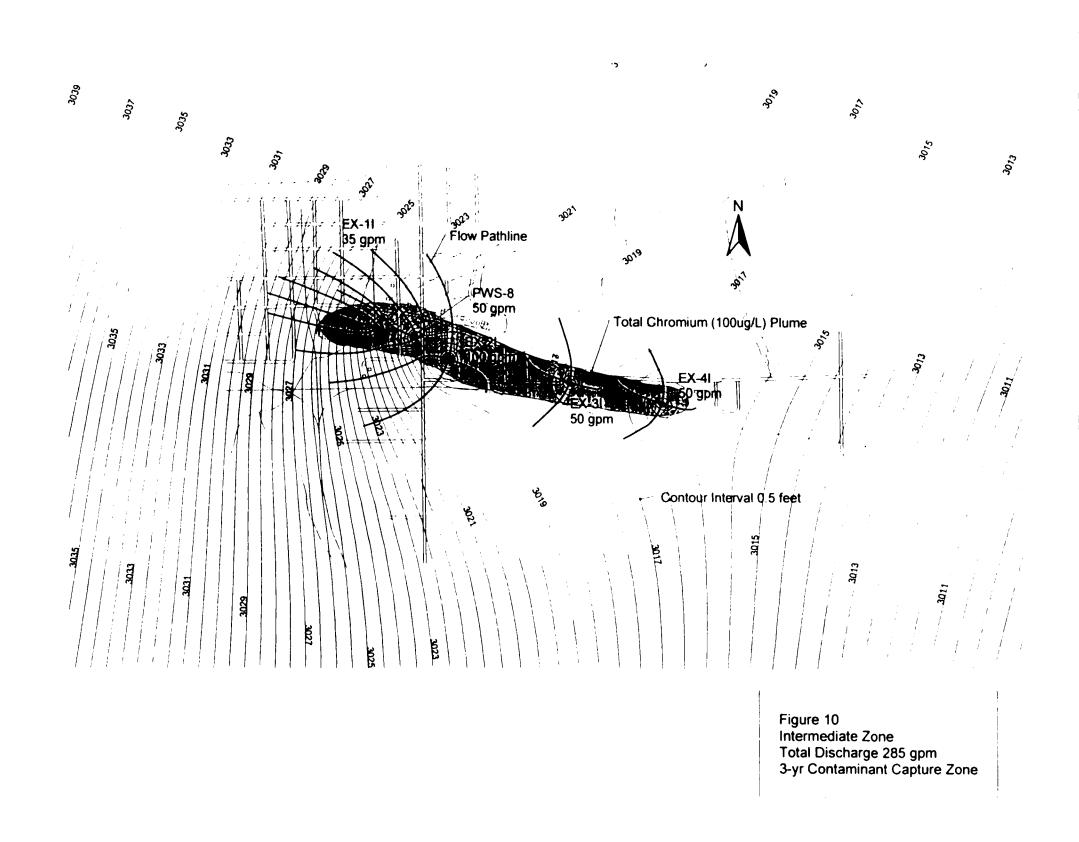


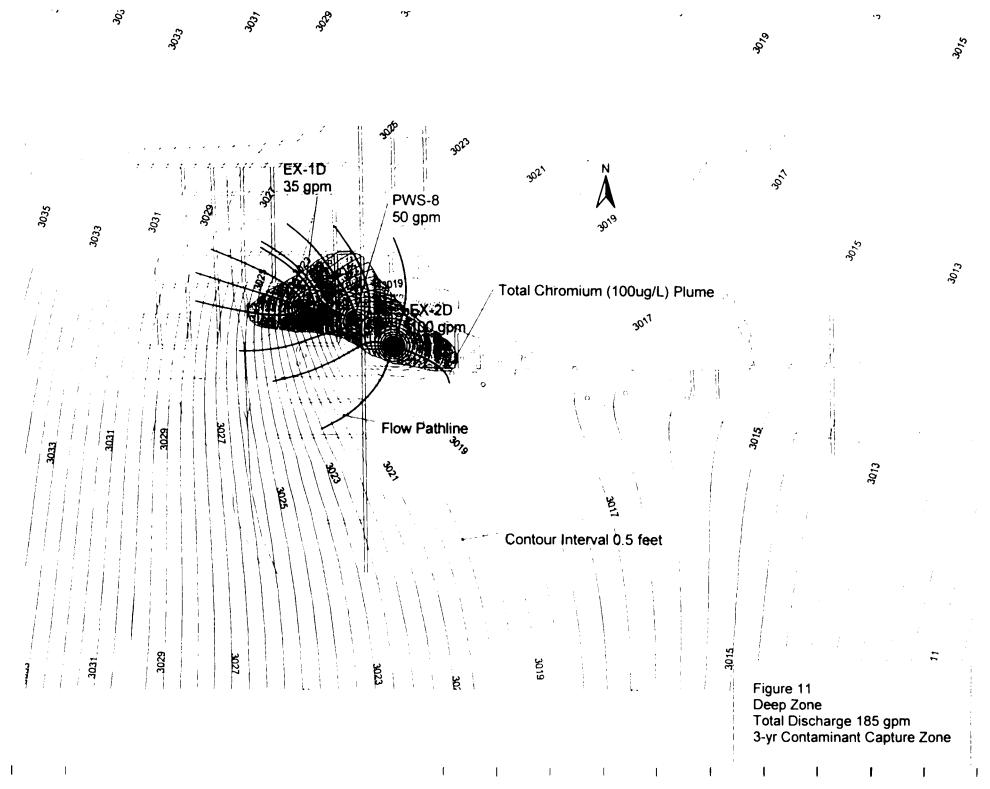


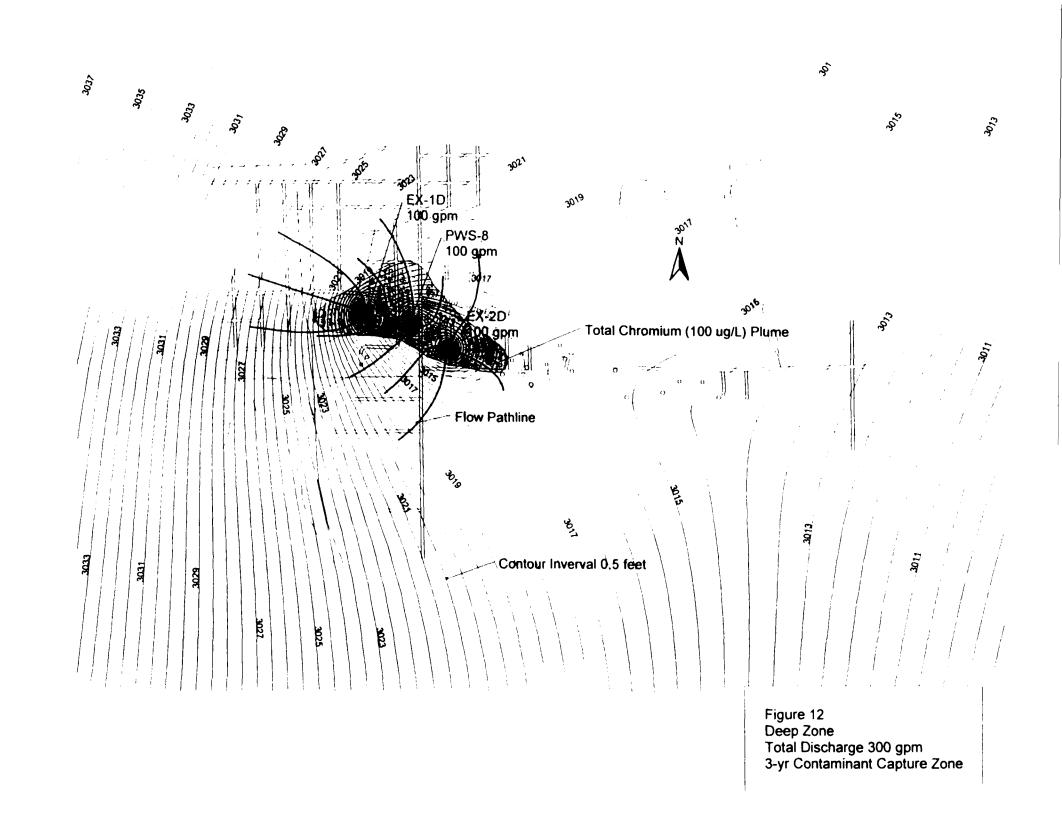


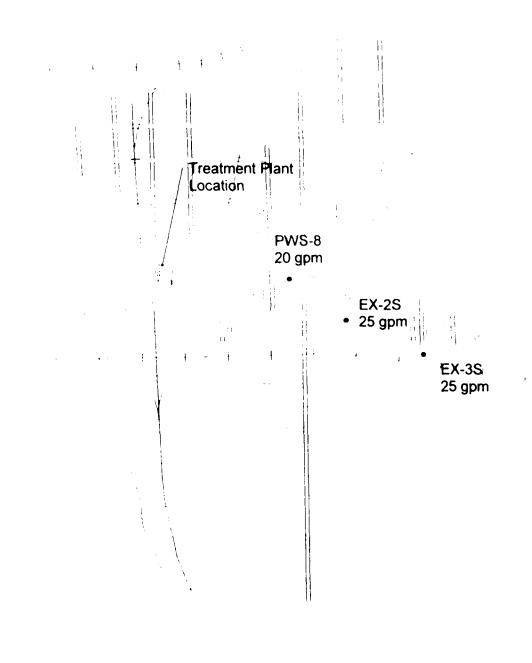












EX-4S 25 gpm

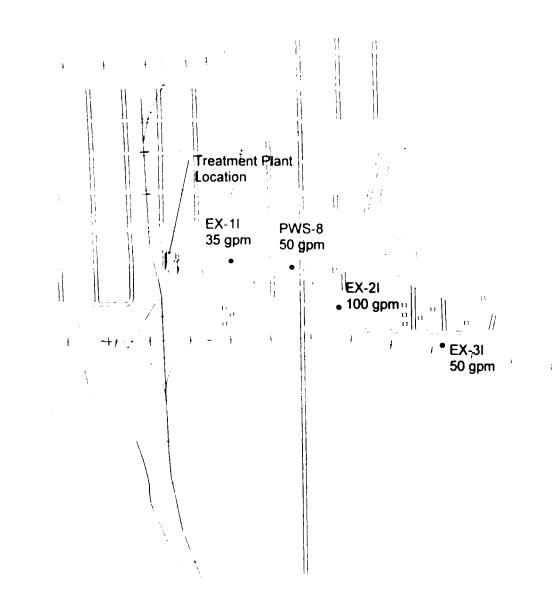
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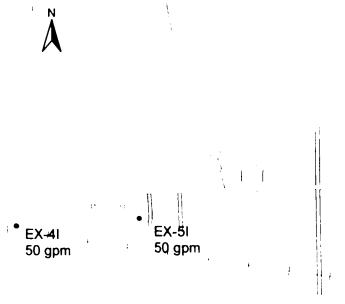
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Figure 13 Proposed Extraction Well Locations Shallow Zone

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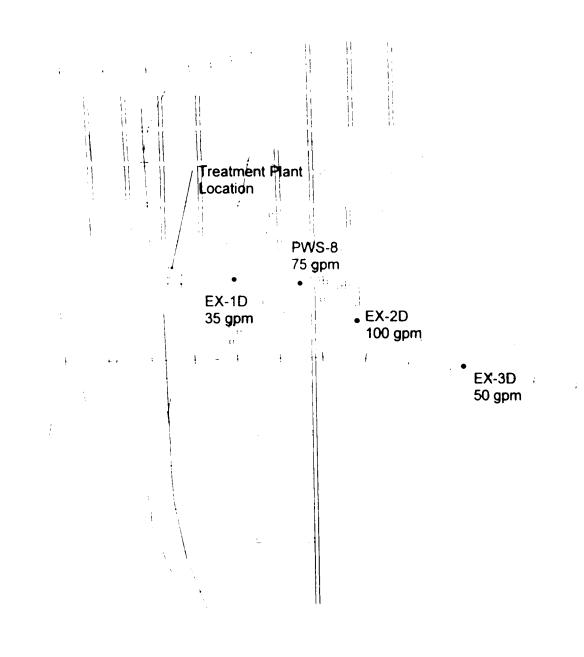




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Figure 14 Proposed Extraction Well Locations Intermediate Zone



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Figure 15 Proposed Extraction Well Locations Deep Zone

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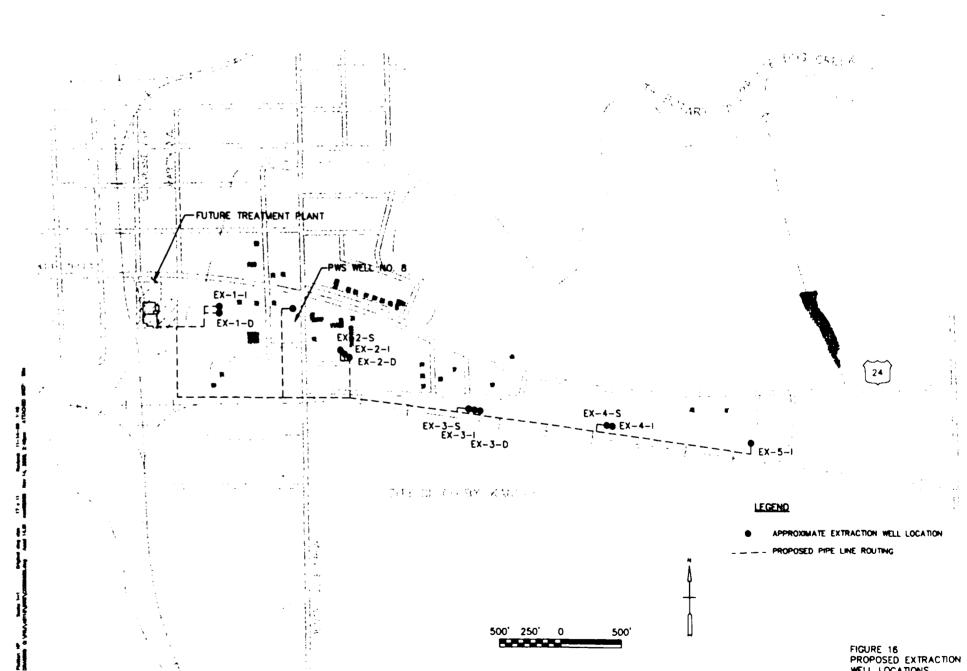


FIGURE 16 PROPOSED EXTRACTION WELL LOCATIONS ACE SERVICES SITE

# Appendix J

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**EPA and KDHE Comments and Responses** on *Technical Memorandum Remedial Design* Sampling Activities, Ace Services Site, Colby, Kansas, March 29, 2000.

File L. >



6601 College Boulevard Overland Park, Kansas 66211 USA

Tel (913) 458-2900

USEPA Region VII Ace Services Site

Mr. Bob Stewart USEPA Region VII 901 N. 5th Street Kansas City, Kansas 66101 Black & Veatch Special Projects Corp.

BVSPC Project 46118.126 BVSPC File May 12, 2000

Subject:

EPA Contract No. 68-W5-0004 W.A. No. 034-RDRD-07GE Responses to KDHE Review Comments for Technical Memorandum Remedial Design Sampling Activities, Ace Services Site, Colby, Kansas

Dear Mr. Stewart:

The following are responses to review comments for the Technical Memorandum Remedial Design Sampling Activities, Ace Services Site, Colby, Kansas (March 29, 2000). The comments were provided by the Kansas Department of Health and Environment (KDHE), April 18, 2000. The review comments are restated in italics, followed by responses from Black & Veatch Special Projects Corp. (BVSPC).

1. KDHE/BER requests an electronic copy of the site map when it is completed.

An electronic copy of the site map will be forwarded to KDHE when the survey is final.

2. Pages 3-5 and 3-9, Sections 3.1.5 and 3.3.2. Newly installed wells were sampled immediately after the wells were developed. The well development procedure, however, only removed "at least half as much water as was introduced during drilling". From the discussion in the report, there appears to be the potential that samples from the new wells may not be representative of aquifer conditions. Is data from the new wells consistent with the old wells? For example, consider the results from MW-8-D (89 mg/L total Cr) compared to PWS well No. 8 (1930 mg/L total Cr) which is immediately adjacent. The report should discuss the implications of the well development procedure relative to any theoretical effects on the quality of the samples.

Well development consisted of surging and pumping the well using an electric

the imagine - build company\*

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submersible pump. The temperature, pH, specific conductivity, turbidity, dissolved oxygen (DO), and oxidation reduction potential (ORP) was monitored during pumping. Pumping continued until the field parameters stabilized and the water was clear and free of fines at which time the samples were collected.

Additional water was also removed during well construction. Approximately 400 gallons of water was displaced and collected from each boring during installation of the well casing, filter packs, bentonite seal, and bentonite grout. This information will be included in the report.

This same development/sampling method was used for all newly installed wells. Analytical results of total chromium in groundwater samples ranged from non-detect to 2740 ug/L, indicating dilution of groundwater by introducing drilling fluid (potable water) was not significant and that the samples are representative of groundwater quality.

All wells will be sampled again during the final stages of the remedial design. Analytical results of the two rounds of sampling will be compared and, if necessary, extraction well locations could be relocated to accommodate changes in concentrations and limits of the plume.

3. Page 5-1, Section 5-2, last sentence. Conclusive evidence has not been gathered to show that leaching of residual chromium from the unsaturated zone to groundwater is no longer occurring. Showing that chromium concentrations in the unsaturated zone decrease with depth only shows the depths of chromium contamination in the unsaturated zone. Migration of chromium to groundwater does not occur through movement of the mass of chromium downward through the unsaturated zone, but rather by dissolution of chromium as water percolates downward to the water table. Chromium concentrations in groundwater 200 to 500 feet downgradient of Ace Services still range from 500 to 1130 mg/L. During the removal of chromium sludge in 1994, it was recognized that the bottom of the soil contamination had not been reached even after digging 20 feet below the floor of the Ace Services building (EPA Site Progress Report, July 13, 1994). If the source has been significantly reduced, then with time chromium concentrations in groundwater near the source area should diminish while higher concentrations continue to exist downgradient. Enough time may not have passed to see such a trend, however, since remediation of groundwater will not be successful without significant source reduction, further analysis should be conducted to assess whether or not the source area continues to be active.

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Ceasing discharge of wastewater and the excavation of contaminated sludge and soils has removed the primary sources of groundwater contamination. It is not evident that the remaining contaminants will migrate significantly to the groundwater.

Elevated chromium levels in the surface soil of the lagoon area was addressed when the surface soil was remediated to cleanup levels (1500 mg/kg total chromium and 500 mg/kg lead) during the 1994 removal action. A monitoring well (MW-10-P) was installed near the former lagoon and screened at a depth of 30 feet (BVSPC 1999) to evaluate the possibility of a contaminated perched groundwater zone. Well MW-10-P has been dry on every water level measurement event indicating the perched groundwater zone is no longer present.

As described in comment #6 of the Responsiveness Summary of the ROD, EPA will conduct further investigation of the subsurface soil. Initial efforts including subsurface soil sampling and installation of well MW-10-P has been performed. Additional efforts will continue up to and after the groundwater extraction program has begun. This will allow EPA to judge the effectiveness of the extraction and then determine if the soils have a continuing source impact on the groundwater quality. A decision concerning further remedial action of the soil will be made before or during the 5-year review

Further evaluation of significant leaching of contaminants from the lagoon area soils will be made by sampling groundwater from each of the three screened intervals of the Ace Recovery well. The groundwater sampling will be performed quarterly for the first year as part of the remedial action as described in the ROD or more frequently as necessary to evaluate contaminant trends in the groundwater. Analytical results from groundwater samples collected from the Ace Recovery well will identify any trends in contaminant leaching. It is estimated that the contaminant concentrations will decrease with time. In addition, well MW-10-P will be monitored to verify that the perched groundwater condition is still no longer present.

4. Figures 5-7 and 5-8. The extent of chromium contamination above the Maximum Contaminant Level (MCL) within shallow and intermediate depths of the groundwater aquifer has not been defined. The extent needs to be known to determine if the plume can be captured by the proposed extraction wells and to determine if additional receptors, such as wells R-7 and R-8, might be at risk. KDHE/BER recommends installation of additional wells

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east of MW-12 to define the downgradient extent of chromium contamination. KDHE/BER also recommends installation of additional wells south of the railroad line because the direction of groundwater flow indicates that the chromium plume should be oriented in a more southeasterly direction from the source area. Most receptors to the plume are located along either side of Highway 24, which led us to position monitor wells along the same east-west directional trend. This has resulted in a picture of the plume that follows the highway, rather than the groundwater gradient. To determine if the plume will be captured by the extraction wells, the spatial distribution of the plume needs to be known. See enclosures 1 and 2 for the areas where additional wells should be located.

Current data have delineated the plume extent and concentration for the purposes of remedial design. However, to further ensure optimization of the placement of extraction wells additional monitoring wells will be installed as KDHE requests. It is proposed that two additional groundwater monitoring well nests consisting of shallow and intermediate depth wells be installed south of the railroad tracks. Proposed locations for the two well nests are illustrated on the attached figure. Final locations of the wells will be limited to property access restrictions.

If you have any questions or require any additional information, please call me at (913) 458-6583.

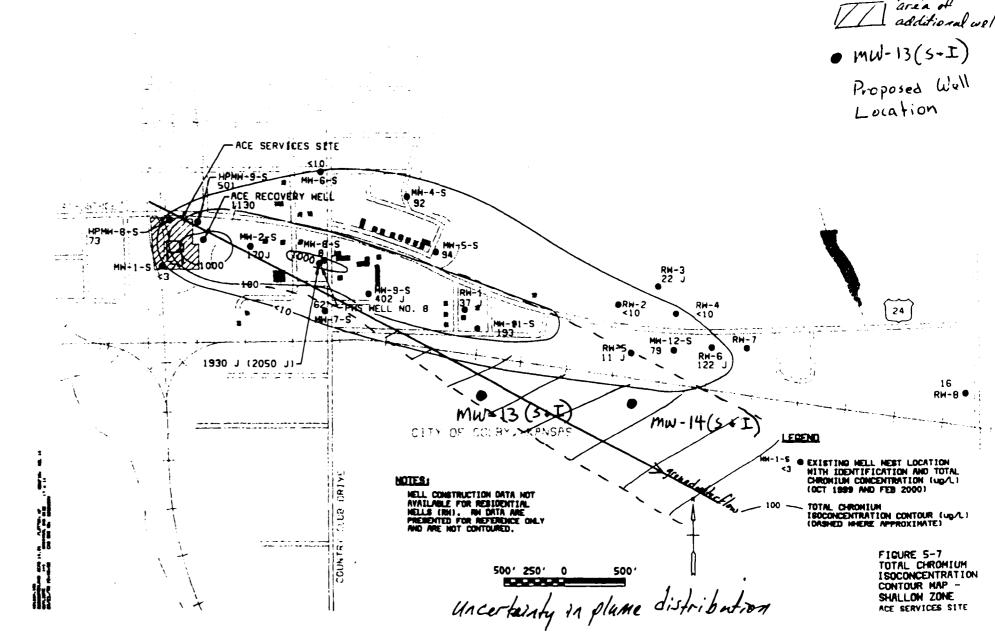
Sincerely,

BLACK & VEATCH SPECIAL PROJECTS CORP.

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Gary L. Felkner Site Manager

cc: Randy Carlson, KDHE File



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Enclosure 1 area of additional well