

DOT US Department of Transportation  
PHMSA Pipelines and Hazardous Materials Safety Administration  
OPS Office of Pipeline Safety  
Southwest Region

**Principal Investigator** Gene Roberson  
**Region Director** R.M. Seeley  
**Date of Report** 4/15/2011  
**Subject** Failure Investigation Report – Texas Gas Transmission Internal Corrosion

### **Operator, Location, & Consequences**

**Date of Failure** 8/4/2009 and 11/4/2009  
**Commodity Released** Natural Gas  
**City/County & State** Grand Chenier/ Cameron LA  
**OpID & Operator Name** 19270 Texas Gas Transmission LLC  
**Unit # & Unit Name** 9704 Euncie District  
**SMART Activity #** 126777  
**Milepost / Location** Milepost 28  
**Type of Failure** Leak caused by Internal Corrosion  
**Fatalities** 0  
**Injuries** 0  
**Description of area impacted** Marshy Area  
**Property Damage** \$249,250 combined for both failures

## **Failure Investigation Report – Texas Gas Transmission Internal Corrosion**

8/4/2009 and 11/4/2009

### **System Details**

This pipeline is a portion of Texas Gas Transmission LLC Unit 9704 – Eunice District. The system consists of 32 miles of 20 inch OD X 0.280 wt. API 5L X-60 ERW line pipe from American Steel. The pipeline was installed in 1981 and has an MAOP of 1052 psig. The line travels from Roanoke Junction to Grand Chenier, LA. The pipeline route traverses mostly through marshy areas and is identified as Class 1 for regulatory documentation. This unit has no history of incidents or releases associated with corrosion or any other causes in the last ten years.

### **Events Leading up to the Failure**

The production volume had fallen off and the line was shut in under pressure. The pipeline has not actively transported gas for the last ten years. Prior to the release, the line was static holding a pressure of 725 psig.

At approximately 10:00 am CST, August 4, 2009, Texas Gas Transmission LLC identified a gas release at approximately Mile Post 28. The location of the leak was in the marsh about 3 miles north of Grand Chenier, LA.

### **Emergency Response**

The line had been shut in therefore block valves on either side of the release location were already closed. Upon notification of the leak, crews were dispatched to monitor the site. Since the leak site was isolated from public exposure, Texas Gas allowed the pipeline to blow down through the leak. Blow down was completed at 9:15pm that evening. The site was secured until plans could be finalized for investigation. Permits were requested for entry into the marsh.

### **Summary of initial start-up plan and return-to-service, including preliminary safety measures**

Upon excavation of the failure, Texas Gas identified internal corrosion as the cause of the failure and installed a PLIDCO split sleeve over the leaking area of pipe on August 24 through 26, 2009 (See Appendix C).

To assess the condition of the pipeline, the operator scheduled an ILI for November 2009. The pipeline was pressured to approximately 50% MAOP to accommodate the running of the ILI tool. During the pressurization of the pipeline, a second leak occurred at approximately Mile Post 30. The operator determined that the second leak was also a result of internal corrosion. A leak clamp was installed at the second leak site and the ILI run was successfully completed on December 10, 2009.

Preliminary data from the ILI run indicated significant metal loss in certain areas between MP 12 and MP 32. This section of the pipeline was blown down to atmospheric pressure and locked out of service. The operator will determine whether to replace or abandon this section.

A section of the pipeline between MP 12 and 0 has been returned to service.

## **Failure Investigation Report – Texas Gas Transmission Internal Corrosion**

8/4/2009 and 11/4/2009

### **Investigation Findings & Contributing Factors**

This incident was reported due to exceeding the cost criteria, there was no fire, explosion or injuries. The Southwest Region followed up on the incident but did not perform an onsite investigation.

The operator indicated that prior to shutting in this pipeline, corrosion inhibitor was injected and internal corrosion monitoring was accomplished by monitoring ER Probes and weight loss coupons. However, upon isolating the system, there was no flow, and the pipeline was no longer injected with inhibitor nor monitored. The operator further determined that the internal corrosion was a result of microbiologically influenced corrosion (MIC).

### **Appendices**

- A NRC Reports # 913752 and 922589
- B Texas Gas Transmission Incident Reports to PHMSA
- C Photographs

NATIONAL RESPONSE CENTER 1-800-424-8802  
 \*\*\* For Public Use \*\*\*  
 Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 913752

INCIDENT DESCRIPTION

\*Report taken at 12:12 on 04-AUG-09  
 Incident Type: PIPELINE  
 Incident Cause: EQUIPMENT FAILURE  
 Affected Area:  
 The incident was discovered on 04-AUG-09 at 10:00 local time.  
 Affected Medium: AIR ATMOSPHERE

SUSPECTED RESPONSIBLE PARTY

Organization: TEXAS GAS TRANSMISSION CORPORATION  
 OWENSBORO, KY 42301  
 Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

County: CAMERON  
 City: GRAND CHEINERE State: LA Zip: 42301  
 Township: 15 SOUTH Range: 6 WEST 2 MILES NORTH OF HIGHWAY 62 IN A MARSH AREA

RELEASED MATERIAL(S)

CHRIS Code: ONG Official Material Name: NATURAL GAS  
 Also Known As:  
 Qty Released: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

CALLER STATED THAT A PIPELINE IS VENTING NATURAL GAS ABOUT 20 FEET INTO THE AIR DUE TO UNKNOWN CAUSES.

INCIDENT DETAILS

Pipeline Type: TRANSMISSION  
 DOT Regulated: YES  
 Pipeline Above/Below Ground: BELOW  
 Exposed or Under Water: NO  
 Pipeline Covered: UNKNOWN

DAMAGES

Fire Involved: NO Fire Extinguished: UNKNOWN  
 INJURIES: NO Hospitalized: Empl/Crew: Passenger:  
 FATALITIES: NO Empl/Crew: Passenger: Occupant:  
 EVACUATIONS: NO Who Evacuated: Radius/Area:  
 Damages: NO

<u>Closure Type</u>	<u>Description of Closure</u>	<u>Length of Closure</u>	<u>Direction of Closure</u>
Air:	N		
Road:	N		Major Artery: N
Waterway:	N		
Track:	N		

Passengers Transferred: NO  
 Environmental Impact: UNKNOWN  
 Media Interest: NONE Community Impact due to Material:

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REMEDIAL ACTIONS

CALLER STATED THE LINE WAS CLOSED OFF AND REPAIRS WILL BE MADE.

Release Secured: YES

Release Rate:

Estimated Release Duration:

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WEATHER

Weather: UNKNOWN, °F

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ADDITIONAL AGENCIES NOTIFIED

Federal: NONE

State/Local: NONE

State/Local On Scene: NONE

State Agency Number:

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NOTIFICATIONS BY NRC

USCG ICC (ICC ONI)

04-AUG-09 12:28

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)

04-AUG-09 12:28

U.S. EPA VI (MAIN OFFICE)

04-AUG-09 12:33

FLD INTEL SUPPORT TEAM NEW ORLEANS (SUPERVISOR, FIST NEW ORLEANS)

04-AUG-09 12:28

FLD INTEL SUPPORT TEAM PORT ARTHUR (FIST COMMAND CENTER)

04-AUG-09 12:28

FLD INTEL SUPPORT TEAM PORT ARTHUR (FIELD UNIT)

04-AUG-09 12:28

JFO-LA (COMMAND CENTER)

04-AUG-09 12:28

JFO-LA (FEMA JFO LA)

04-AUG-09 12:28

LA DEPT OF ENV QUAL (MAIN OFFICE)

04-AUG-09 12:28

LA DEPT OF WILDLIFE AND FISHERIES (ATTN: VAUGHAN MCDONALD)

04-AUG-09 12:28

LA OFFICE OF EMERGENCY PREPAREDNESS (MAIN OFFICE)

04-AUG-09 12:28

LA OFFICE OF GOV (MAIN OFFICE)

04-AUG-09 12:28

LA OFFICE OF PUBLIC HEALTH (MAIN OFFICE)

04-AUG-09 12:28

MSU LAKE CHARLES (MAIN OFFICE)

04-AUG-09 12:28

NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)

04-AUG-09 12:28

NOAA RPTS FOR LA (MAIN OFFICE)

04-AUG-09 12:28

MSU PORT ARTHUR (MAIN OFFICE)

04-AUG-09 12:32

LA STATE POLICE (MAIN OFFICE)

04-AUG-09 12:28

TCEQ (MAIN OFFICE)

04-AUG-09 12:28

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ADDITIONAL INFORMATION

GAS BLOW IS ABOUT 20FEET HIGH AND THE PIPELINE HAS BEEN SECURED BUT WILL CONTINUE TO BLOW UNTIL ALL THE PRESSURE IS RELEASED. CALLER STATED THE TOTAL ESTIMATED MATERIAL THAT WILL BE RELEASED IS 12,000,000 CUBIC FEET.

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\*\*\* END INCIDENT REPORT # 913752 \*\*\*

NATIONAL RESPONSE CENTER 1-800-424-8802  
 \*\*\* For Public Use \*\*\*  
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Incident Report # 922589

INCIDENT DESCRIPTION

\*Report taken at 12:35 on 04-NOV-09  
 Incident Type: PIPELINE  
 Incident Cause: UNKNOWN  
 Affected Area:  
 The incident occurred on 04-NOV-09 at 10:50 local time.  
 Affected Medium: AIR    ATMOSPHERE

SUSPECTED RESPONSIBLE PARTY

Organization:            BOARDWALK PIPELINE  
                               IOWA, LA 70647  
 Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

County: CAMERON  
 City: CAMERON State: LA  
 2 MILES NORTH OF MERMENTAU RIVER ROAD (ON THE ROANOKE GRAND CHENIER 20" LINE)

RELEASED MATERIAL(S)

CHRIS Code: ONG      Official Material Name: NATURAL GAS  
 Also Known As:  
 Qty Released: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

CALLER STATED NATURAL GAS RELEASED FROM A 20" PIPELINE INTO THE AIR DUE TO UNKNOWN CAUSES AT THIS TIME.

INCIDENT DETAILS

Pipeline Type: DISTRIBUTION  
 DOT Regulated: YES  
 Pipeline Above/Below Ground: ABOVE  
 Exposed or Under Water: NO  
 Pipeline Covered: UNKNOWN

DAMAGES

Fire Involved: NO    Fire Extinguished: UNKNOWN  
 INJURIES:            NO    Hospitalized:                            Empl/Crew:                            Passenger:  
 FATALITIES:        NO    Empl/Crew:                              Passenger:                            Occupant:  
 EVACUATIONS:      NO    Who Evacuated:                            Radius/Area:

Damages:            NO

<u>Closure Type</u>	<u>Description of Closure</u>	<u>Length of Closure</u>	<u>Direction of Closure</u>
Air:	N		
Road:	N		Major Artery: N
Waterway:	N		
Track:	N		

Passengers Transferred: NO  
 Environmental Impact: UNKNOWN  
 Media Interest: NONE    Community Impact due to Material:

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REMEDIAL ACTIONS

ISOLATION WAS CONFIRMED, PIPELINE WAS ISOLATED AT THE TIME, RELEASE IS STILL OCCURRING

Release Secured: NO

Release Rate:

Estimated Release Duration:

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WEATHER

Weather: SUNNY, 65°F

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ADDITIONAL AGENCIES NOTIFIED

Federal: NONE  
State/Local: LDEQ, LEPC  
State/Local On Scene:  
State Agency Number: NONE

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NOTIFICATIONS BY NRC

USCG ICC (ICC ONI)  
04-NOV-09 12:45  
DHS PROTECTIVE SECURITY ADVISOR (PSA DESK)  
04-NOV-09 12:45  
DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)  
04-NOV-09 12:45  
FLD INTEL SUPPORT TEAM NEW ORLEANS (SUPERVISOR, FIST NEW ORLEANS)  
04-NOV-09 12:45  
FLD INTEL SUPPORT TEAM PORT ARTHUR (FIST COMMAND CENTER)  
04-NOV-09 12:45  
FLD INTEL SUPPORT TEAM PORT ARTHUR (FIELD UNIT)  
04-NOV-09 12:45  
JFO-LA (COMMAND CENTER)  
04-NOV-09 12:45  
JFO-LA (FEMA JFO LA)  
04-NOV-09 12:45  
LA DEPT OF ENV QUAL (MAIN OFFICE)  
04-NOV-09 12:45  
LA DEPT OF WILDLIFE AND FISHERIES (ATTN: VAUGHAN MCDONALD)  
04-NOV-09 12:45  
LA OFFICE OF EMERGENCY PREPAREDNESS (MAIN OFFICE)  
04-NOV-09 12:45  
LA OFFICE OF GOV (MAIN OFFICE)  
04-NOV-09 12:45  
LA OFFICE OF PUBLIC HEALTH (MAIN OFFICE)  
04-NOV-09 12:45  
MSU LAKE CHARLES (MAIN OFFICE)  
04-NOV-09 12:45  
NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)  
04-NOV-09 12:45  
NOAA RPTS FOR LA (MAIN OFFICE)  
04-NOV-09 12:45  
MSU PORT ARTHUR (MAIN OFFICE)  
04-NOV-09 12:46  
LA STATE POLICE (MAIN OFFICE)  
04-NOV-09 12:45  
TCEQ (MAIN OFFICE)  
04-NOV-09 12:45

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ADDITIONAL INFORMATION

CALLER STATES THERE IS APPROXIMATELY 6-8 INCH BUBBLING OF GAS ON TOP OF THE LINE.

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\*\*\* END INCIDENT REPORT # 922589 \*\*\*



## INCIDENT REPORT - GAS TRANSMISSION AND GATHERING SYSTEMS

Report Date \_\_\_\_\_  
 No. \_\_\_\_\_  
(DOT Use Only)

**INSTRUCTIONS**

**Important:** Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the Office Of Pipeline Safety Web Page at <http://ops.dot.gov>.

**PART A – GENERAL REPORT INFORMATION**

Check one or more boxes as appropriate:

**Operator Name and Address**

**Original Report      Supplemental Report      Final Report**

- a. Operator's 5-digit Identification Number (when known) / \_\_\_\_\_ /
- b. If Operator does not own the pipeline, enter Owner's 5-digit Identification Number (when known) / \_\_\_\_\_ /
- c. Name of Operator \_\_\_\_\_
- d. Operator street address \_\_\_\_\_
- e. Operator address \_\_\_\_\_  
City, County or Parrish, State and Zip Code

**2. Time and date of the incident**

/\_\_\_\_\_/ /\_\_\_\_\_/ /\_\_\_\_\_/ /\_\_\_\_\_/   
 hr.                      month                      day                      year

**3. Location of incident**

- a. \_\_\_\_\_  
Nearest street or road
- b. \_\_\_\_\_  
City and County or Parrish
- c. \_\_\_\_\_  
State and Zip Code
- d. Mile Post/Valve Station \_\_\_\_\_
- e. Survey Station No. \_\_\_\_\_
- f. Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
(if not available, see instructions for how to provide specific location)
- g. Class location description  
Onshore:    Class 1    Class 2    Class 3    Class 4  
Offshore:    Class 1    (complete rest of this item)  
Area \_\_\_\_\_ Block # \_\_\_\_\_  
State /\_\_\_\_\_/ or Outer Continental Shelf
- h. Incident on Federal Land other than Outer Continental Shelf  
Yes    No
- i. Is pipeline Interstate    Yes    No

**4. Type of leak or rupture**

- Leak:    Pinhole    Connection Failure *(complete sec. F5)*  
Puncture, diameter (inches) \_\_\_\_\_
- Rupture:    Circumferential – Separation  
Longitudinal – Tear/Crack, length (inches) \_\_\_\_\_  
Propagation Length, total, both sides (feet) \_\_\_\_\_
- N/A
- Other: \_\_\_\_\_

**5. Consequences (check and complete all that apply)**

- a. Fatality    Total number of people: /\_\_\_\_\_/   
Employees: /\_\_\_\_\_/    General Public: /\_\_\_\_\_/  
Non-employee Contractors: /\_\_\_\_\_/
- b. Injury requiring inpatient hospitalization    Total number of people: /\_\_\_\_\_/   
Employees: /\_\_\_\_\_/    General Public: /\_\_\_\_\_/  
Non-employee Contractors: /\_\_\_\_\_/
- c. Property damage/loss (estimated)    Total \$ \_\_\_\_\_  
Gas loss \$ \_\_\_\_\_    Operator damage \$ \_\_\_\_\_  
Public/private property damage \$ \_\_\_\_\_
- d. Release Occurred in a 'High Consequence Area'
- e. Gas ignited – No explosion    f. Explosion
- g. Evacuation (general public only) /\_\_\_\_\_/ people  
Reason for Evacuation:  
 Emergency worker or public official ordered, precautionary  
 Threat to the public                      Company policy

**6. Elapsed time until area was made safe:**

/\_\_\_\_\_/ hr.    /\_\_\_\_\_/ min.

**7. Telephone Report**

/\_\_\_\_\_/ /\_\_\_\_\_/ /\_\_\_\_\_/ /\_\_\_\_\_/   
NRC Report Number                      month                      day                      year

**8. a. Estimated pressure at point and time of incident:**

\_\_\_\_\_ PSIG

b. Max. allowable operating pressure (MAOP): \_\_\_\_\_ PSIG

- c. MAOP established by 49 CFR section:  
192.619 (a)(1)    192.619 (a)(2)    192.619 (a)(3)  
192.619 (a)(4)    192.619 (c)

d. Did an overpressurization occur relating to the incident?    Yes    No

**PART B – PREPARER AND AUTHORIZED SIGNATURE**

\_\_\_\_\_  
(type or print) Preparer's Name and Title                      Area Code and Telephone Number

\_\_\_\_\_  
Preparer's E-mail Address                      Area Code and Facsimile Number

\_\_\_\_\_  
Authorized Signature                      (type or print) Name and Title                      Date                      Area Code and Telephone Number





**F5 – MATERIAL AND WELDS**

**Material**

- 14. Body of Pipe => Dent                      Gouge                      Wrinkle Bend                      Arc Burn                      Other: \_\_\_\_\_
- 15. Component => Valve                      Fitting                      Vessel                      Extruded Outlet                      Other: \_\_\_\_\_
- 16. Joint => Gasket                      O-Ring                      Threads                      Other: \_\_\_\_\_

**Weld**

- 17. Butt => Pipe                      Fabrication                      Other: \_\_\_\_\_
- 18. Fillet => Branch                      Hot Tap                      Fitting                      Repair Sleeve                      Other: \_\_\_\_\_
- 19. Pipe Seam => LF ERW                      DSAW                      Seamless                      Flash Weld                      Other: \_\_\_\_\_
- HF ERW                      SAW                      Spiral

Complete a-g if you indicate **any** cause in part F5.



a. Type of failure:

- Construction Defect =>      Poor Workmanship                      Procedure not followed                      Poor Construction Procedures
- Material Defect

b. Was failure due to pipe damage sustained in transportation to the construction or fabrication site?      Yes      No

c. Was part which leaked pressure tested before incident occurred?      Yes, complete d-g      No

d. Date of test:      / \_\_\_\_ / mo.      / \_\_\_\_ / day      / \_\_\_\_ / yr.

e. Test medium:      Water      Natural Gas      Inert Gas      Other: \_\_\_\_\_

f. Time held at test pressure:      / \_\_\_\_ / hr.

g. Estimated test pressure at point of incident: \_\_\_\_\_ PSIG

**F6 – EQUIPMENT AND OPERATIONS**

- 20. Malfunction of Control/Relief Equipment =>      Valve      Instrumentation      Pressure Regulator      Other: \_\_\_\_\_
- 21. Threads Stripped, Broken Pipe Coupling =>      Nipples      Valve Threads      Mechanical Couplings      Other: \_\_\_\_\_
- 22. Ruptured or Leaking Seal/Pump Packing

23. Incorrect Operation

a. Type:      Inadequate Procedures      Inadequate Safety Practices      Failure to Follow Procedures      Other: \_\_\_\_\_

b. Number of employees involved who failed post-incident drug test: / \_\_\_\_ /      Alcohol test: / \_\_\_\_ /

c. Were most senior employee(s) involved qualified?      Yes      No      d. Hours on duty: / \_\_\_\_ /

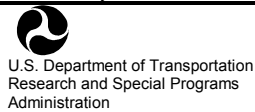
**F7 – OTHER**

24. Miscellaneous, describe: \_\_\_\_\_

25. Unknown  
                 Investigation Complete                      Still Under Investigation (submit a supplemental report when investigation is complete)

**PART G – NARRATIVE DESCRIPTION OF FACTORS CONTRIBUTING TO THE EVENT**

(Attach additional sheets as necessary)



## INCIDENT REPORT - GAS TRANSMISSION AND GATHERING SYSTEMS

Report Date \_\_\_\_\_  
 No. \_\_\_\_\_  
(DOT Use Only)

### INSTRUCTIONS

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### PART A – GENERAL REPORT INFORMATION

Check one or more boxes as appropriate:

<b>Operator Name and Address</b>	<b>Original Report</b>	<b>Supplemental Report</b>	<b>Final Report</b>
a. Operator's 5-digit Identification Number (when known) / _____ /			
b. If Operator does not own the pipeline, enter Owner's 5-digit Identification Number (when known) / _____ /			
c. Name of Operator _____			
d. Operator street address _____			
e. Operator address _____			
<small>City, County or Parrish, State and Zip Code</small>			

<p>2. Time and date of the incident                  _____ / _____ / _____ / _____                  hr. month day year</p> <p>3. Location of incident</p> <p>a. _____                  Nearest street or road</p> <p>b. _____                  City and County or Parrish</p> <p>c. _____                  State and Zip Code</p> <p>d. Mile Post/Valve Station _____</p> <p>e. Survey Station No. _____</p> <p>f. Latitude: _____ Longitude: _____  <small>(if not available, see instructions for how to provide specific location)</small></p> <p>g. Class location description                  Onshore: Class 1 Class 2 Class 3 Class 4                  Offshore: Class 1 <small>(complete rest of this item)</small>                  Area _____ Block # _____                  State / _____ / or Outer Continental Shelf</p> <p>h. Incident on Federal Land other than Outer Continental Shelf                  Yes No</p> <p>i. Is pipeline Interstate Yes No</p> <p>4. Type of leak or rupture</p> <p>Leak: Pinhole Connection Failure <small>(complete sec. F5)</small>                  Puncture, diameter (inches) _____</p> <p>Rupture: Circumferential – Separation                  Longitudinal – Tear/Crack, length (inches) _____                  Propagation Length, total, both sides (feet) _____</p> <p>N/A                  Other: _____</p>	<p>5. Consequences <small>(check and complete all that apply)</small></p> <p>a. Fatality Total number of people: _____ /                  Employees: _____ / General Public: _____ /                  Non-employee Contractors: _____ /</p> <p>b. Injury requiring inpatient hospitalization Total number of people: _____ /                  Employees: _____ / General Public: _____ /                  Non-employee Contractors: _____ /</p> <p>c. Property damage/loss <small>(estimated)</small> Total \$ _____                  Gas loss \$ _____ Operator damage \$ _____                  Public/private property damage \$ _____</p> <p>d. Release Occurred in a 'High Consequence Area'</p> <p>e. Gas ignited – No explosion f. Explosion</p> <p>g. Evacuation <small>(general public only)</small> _____ / people                  Reason for Evacuation:                  Emergency worker or public official ordered, precautionary                  Threat to the public Company policy</p> <p>6. Elapsed time until area was made safe:                  _____ / hr. _____ / min.</p> <p>7. Telephone Report                  _____ / _____ / _____ / _____                  NRC Report Number month day year</p> <p>8. a. Estimated pressure at point and time of incident:                  _____ PSIG</p> <p>b. Max. allowable operating pressure (MAOP): _____ PSIG</p> <p>c. MAOP established by 49 CFR section:                  192.619 (a)(1) 192.619 (a)(2) 192.619 (a)(3)                  192.619 (a)(4) 192.619 (c)</p> <p>d. Did an overpressurization occur relating to the incident? Yes No</p>
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### PART B – PREPARER AND AUTHORIZED SIGNATURE

(type or print) Preparer's Name and Title _____	_____
	<small>Area Code and Telephone Number</small>
Preparer's E-mail Address _____	_____
	<small>Area Code and Facsimile Number</small>
Authorized Signature _____	_____
<small>(type or print) Name and Title</small>	<small>Date</small>
	<small>Area Code and Telephone Number</small>





Appendix C Photographs



**Figure 1** Photo of leak at MP 28.



**Figure 2** Installed PLIDCO sleeve at leak site MP 28