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REPORT

on

1988 DIAMOND DRILL PROGRAM
RINALDI GRAPHITE PROPERTY
Cardiff Township, Ontario

Toronto, Ontario December 30,1988

Robert L.V.Ekstrom
B.A.Sc., P.Eng.





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- Receipted invoice copies for drilling and consulting

A Program of diamond drilling was carried out on the graphite property owned by Reno V.Rinaldi (in trust) during November of 1988. The property consists of two unpatented mining claims on crown land in the north part of Cardiff Township, Southern Ont. Mining Division. The claims are four miles northeast of Wilberforce, 20 miles west of Bancroft, and 130 miles northeast of Toronto. The claims, showings and drill holes are accessible by road.

The property was explored and mined from 1912 to 1915 by the New York Graphite Company which merged with the National Graphite Company during that time. Drill programs were carried out in 1951 and 1981 by the Black Donald division of Frobisher Limited and A.T.Griffis respectively. A total of 4270 feet of drilling was done in 23 holes in 1951 and 970 feet in six holes in 1981. Reserves calculated from the 1951 drilling were 1,400,000 tons at 4.1% C(carbon) or 800,000 tons at 5.0% C. No tonnage estimate was made from the 1981 drilling.

The 1988 drilling included two holes for a total of 400 feet drilled close to the thickest section interpreted from the Frobisher drilling. Hole 88-1 intersected acid and mafic paragneiss with a 67-foot interval of well mineralized grahitic material which correlates very closely in location and estimated grade with the 1951 results. The main graphite zone in hole 88-2 was 51 feet wide. A six-inch band of very high grade graphite (80-90%) was intersected at a correlating horizon in both holes. The graphite observed was recrystalized flake from one to ten millemetres in diameter.

It is recommended that metallurgical testing and market studies be carried out. A brief preliminary investigation will have to be made to define budget requirements. Metallurgicaltests of the 1988 core samples should include grinding, recovery, grade, and product types, quality, and quantity. Market studies will indicate optimum products for metallurgical tests and give product values for deposit evaluation.

#### PROPERTY, LOCATION AND ACCESS

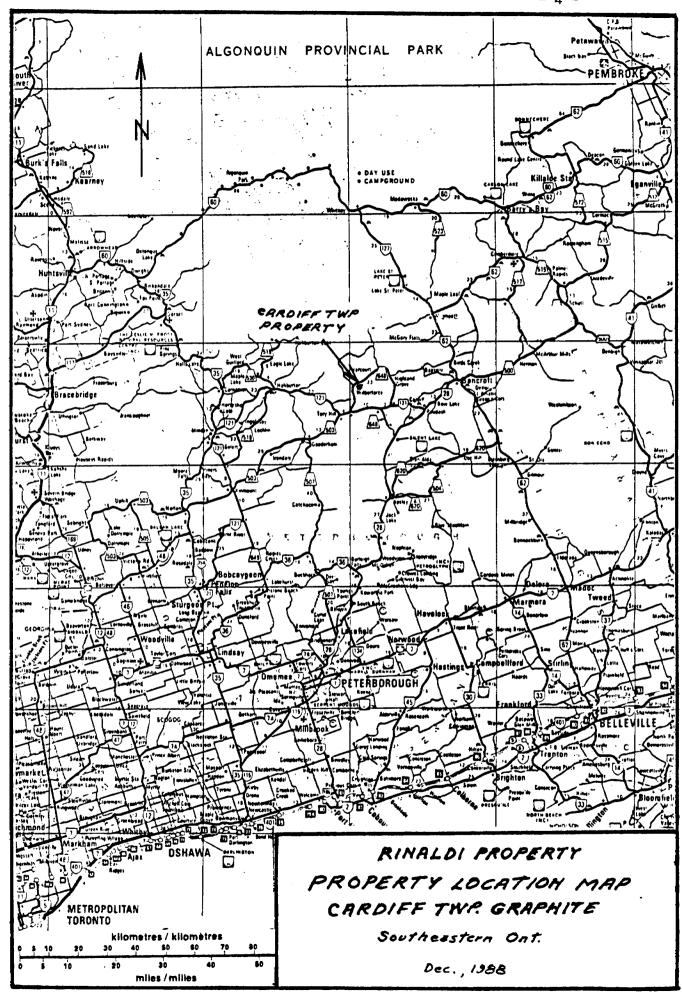
The property consists of two adjoining, unpatented mining claims on Crown land in Cardiff Township, Southern Ontario Mining Division. The claims were recorded on Dec. 15, 1986 and transfered to Reno V.Rinaldi (in trust) on Sept. 13, 1988. During the drilling the claims were held on an extension valid until April 28, 1989. The 400 feet of diamond drilling carried out in the present program will allow the application of 200 days assessment work to be applied to each claim and keep the claims in good standing until Dec. 15, 1991. Sufficient work has been done to apply for a lease if a land survey of the claim boundaries is not required.

The claim group lies in the north part of Cardiff Twp., 800-1600 feet south of Highway 648, immediately southeast of Cardiff Lake, four miles northeast of Wilberforce, 20 miles west of Bancroft and 130 miles northeast of Toronto. (Property Location Map and Claim Location Map follow).

The claims are more accurately described as follows:

Claim No.	Part	Lot	Conc.
EO 898194	Central Pt.	10	IIXX
EO 966534	11 11 ,	11	11

The property and showings are accessible by gravel road from highway 648. The drill holes are accessible by tractor road. The Mumford hoad (gravel), which passes just south of the claims, accesses the Cardiff Twp. garbage dump in the south part of Lot 11, Concession XXII.



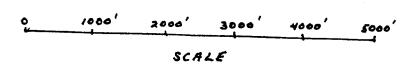
RINALDI PROPERTY

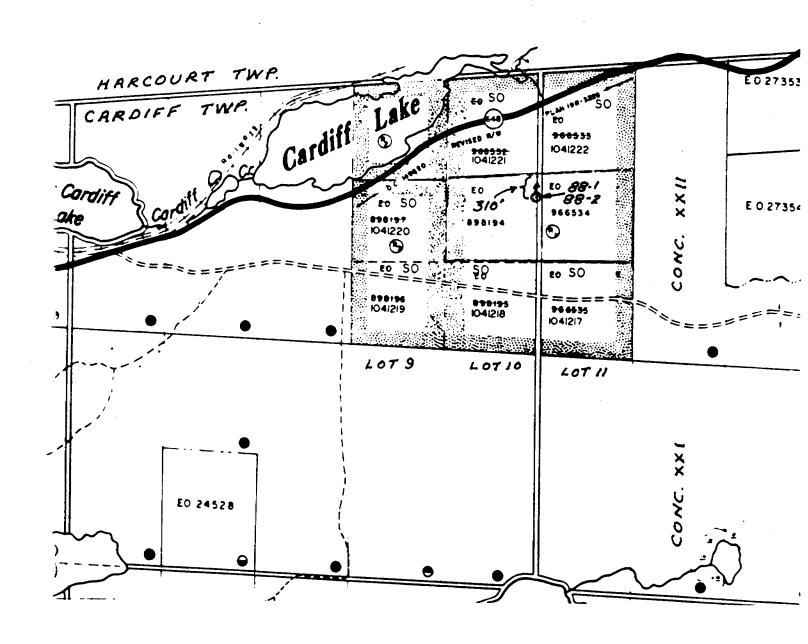
CLAIM LOCATION MAP

CARDIFF TWP GRAPHITE

1988 D. DRILLING

Dec. 1388





#### **ENVIRONMENT**

The claims lie on a ridge top and north-facing side-hill. Relief on the claims is 50 to 100 feet but Cardiff Lake is some 250 feet below the highest point on the claims. Most of the drained areas are forested with hardwood (predominantly maple) with minor sections of balsam, hemlock and cedar. Cutting has removed most of the commercial timber.

One main stream was noted and used in the current drill program which lies some 400 feet west of the holes. The stream was dry in August and September 1988, during and shortly after the abnormal dry spell. The swamps to the north of the claims (east of Cardiff Lake) were also abnormally dry at that time. Some small flowing springs were noted in the pits at the old workings.

Winters may occasionally be cold and snowy but during the recent few years winters have been mild with little snow.

#### HISTORY

The New York Graphite Company began work on the Cardiff Township deposit in 1912 at which time test pits were sunk and diamond drilling carried out. The company erected a mill and produced until 1915 when the company merged with National Graphite Company. Mining was discontinued in Cardiff Township but the mill operated on ore shipped from Monteagle Township.

In 1951, the Black Donald division of Frobisher Limited did 4,270 feet of diamond drilling in 23 holes. A zone of graphite bearing material was indicated to average 60 feet thick, 1,300 feet long and estimated to contain 1,440,000 tons at 4.1% C (carbon). A higher grade section of 800,000 tons at 5.0% carbon was included in the larger tonnage.

The property was restaked in 1980 and optioned by Dr. A. T. Griffis in 1981 and 961 feet of diamond drilling in six holes were done. Tonnage estimates were not reported by Dr. Griffis in his report (Nov. 1981). Sample rejects have not been located. Core specimens were filed with the drill core liabrary in Bancroft.

A limited grid of a base line and short cross lines was cut and surveyed to control the 1981 drilling and the remapping of the geology near the old workings. Control elevations were run on the lines and drill collars and the grid was tied to survey stations on the lot boundary.

#### GEOLOGY AND MINERALIZATION

The graphite occurs as crystaline flake graphite in altered limestone (marble) and paragneiss of the Grenville Province. The deposit is in a zone of paragneiss dipping flatly to the south. The 1951 drilling indicated an average thickness of 60 feet grading 4.1% C along a strike length of 1300 feet and extending some 250 feet down dip from the surface pits. Tonnage was estimated at 1,440,000 tons. Drilling in 1981 indicated an average thickness of thirty feet of 4.0% C material with somwhat lower grade in the hanging and foot wall of the zones.

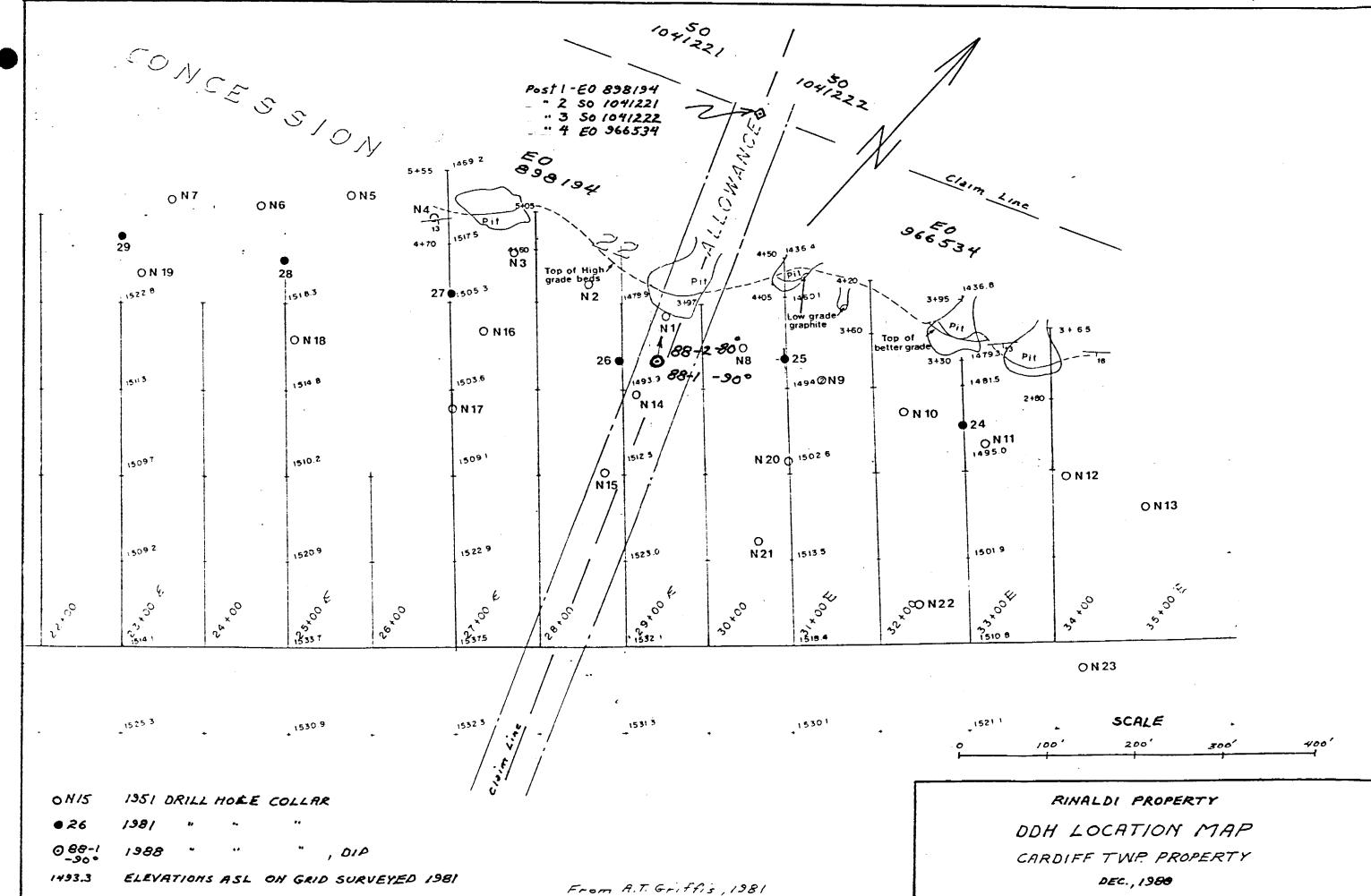
#### 1988 DRILL PROGRAM

A program of drilling was planned to recover samples for metallurgical test work and to check previous drilling results. An application was made for an OMEP grant on November 4, 1988 and preliminary work commenced on November 7, 1988.

Two holes (88-1 and 88-2) were drilled to 204 feet and 196 feet respectively from November 21 to 28, 1988. The holes were drilled close to the Frobisher N1-N14-N15 section (see DDH Location Map and DDH section) and close to hole 26 of the 1981 program.

#### From ODM Map 1357-1 PLUTONIC ROCKS GRANITIC ROCKS 8L Pink and white leucogranite; 8 , granite gneiss. Biotile granite; biotile granite 8h aneiss Hornblende granite; hornblende granite gneiss Hybrid granite gneiss, (inter-banded granite gneiss and am-phibolite); granitized gneiss. Granite pegmatite; pegmatitic 8P pegmatite; pegmatitic granite. SYENITIC ROCKS 7L Pink and white leucosyenite; syenite gneiss; albitite. 7b Biotite syenite; biotite syenite Mumford (Harcourt P.O aneiss. Hornblende syenite; hornblende riornolende syenite; hornblende syenite gneiss. Hybrid syenite gneiss, (interbanded syenite gneiss and amphibolite); syenitized gneiss. Syenite pegmatite. Corundum syenite; corundum syenite gneiss. NEPHELINE GNEISS Leuco nepheline gneiss; nephe-6L 6 line-plagioclase gneiss. Nepheline-biotite gneiss. Nepheline-hornblende gneiss. Nepheline-corundum gneiss. Nepheline skarn. Nephaline pegmatite. INTRUSIVE CONTACT OLDER BASIC INTRUSIVE AND META-INTRUSIVE ROCKS 4Di Diorite. 4 4Gb Gabbro. 4Hb Hornblendite. 4Mg Metagabbro; hornblenda-plagioclase gneiss. 4Am Amphibolite; hornblende schist. 4Px Pyroxenite. INTRUSIVE CONTACT METASEDIMENTS MARBLE 3 Crystalline limestone; dolomite; 3 marbie. Cope Interbedded marble and para-3a gneiss or amphibolite. Silicated marble; marble with accessory silicates. 10) Lake Sandy limestone or marble. Argillaceous limestone or marble; impure shaly or silty limestone. 35 Lime silicate rock; metamorphic pyroxenite; skarn; dicpside or tremolite rock. 3Bx Marble tectonic breccia. PARAGNEISS-AMPHIBOLITE 2A Para-amphibolite; hornblende-pla-gioclase gneiss and schist; 2Ab, 2 biolite amphibolite; 2Abs, biolitescapolite amphibolite; 2Ag, garnet amphibolite; 2Ap, pyroxene granulite; 2As, scapolite amphibolite. feldspathic paragneiss and schist; quartzo-feldspathic paragneiss and schist; 2Fb, biotite feldspathic and quartzo-feldspathic gneiss and schist; 2Fa, feather amphibolite: 2Fag, garnet feather amphibolite. Paragneiss; biotite-quartz-plagioclase gneiss and schist; 2Pg, gar-net paragneiss; 2Pgs, garnet sillimanite paragneiss; 2Ps, sillimanite paragneiss; 2Ps, silli-manite paragneiss; 2Pn, horn-blende paragneiss. Quartzite, sandstone; 2Qb, biotite quartzite; 2Qh, hornblende quart-RINALDI PROPERTY zite. GEOLOGY Stippled areas of granitic and syenitic rocks include many sedimentary bands, and relict sedimentary material. CARDIFF TWR GRAPHITE Scale: I inch = + mile Dec., 1388

PRECAMBRIAN



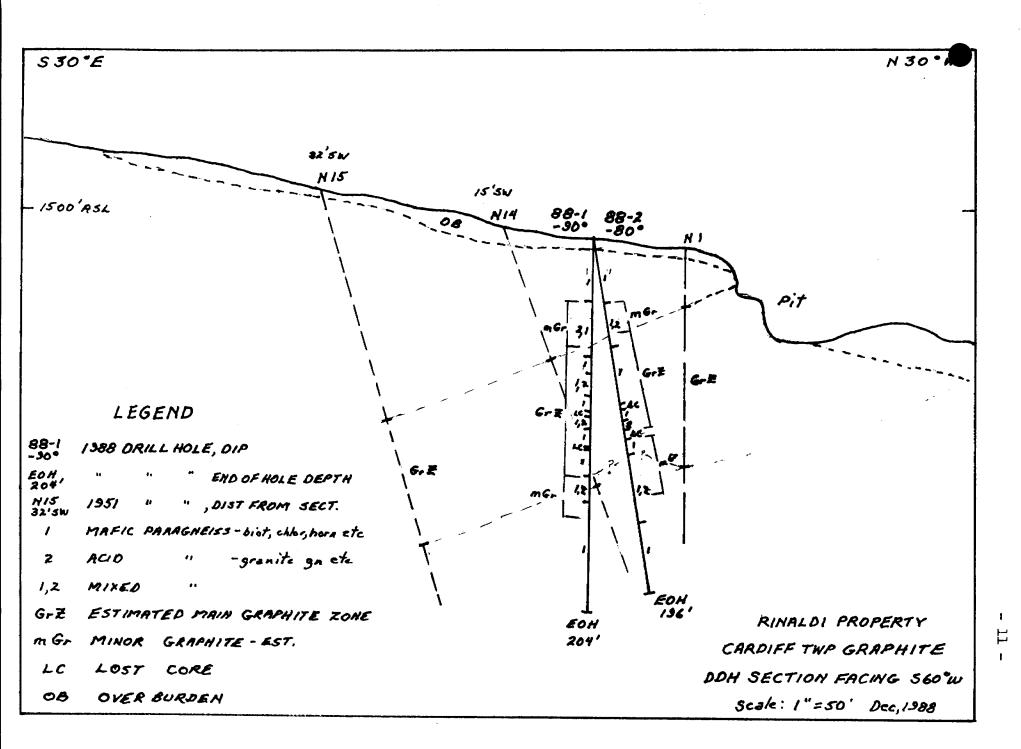
#### RESULTS OF 1988 PROGRAM

Hole 88-1, drilled at -90° (vertical), intersected acid and basic paragneiss with varying amounts of flake graphite, sulphides (pyrite and pyrrhotite) and carbonate (calcite). Seams of semi massive graphite were observed and a six inch section estimated at 90% graphite was intersected. The main zone of graphite mineralization, some 67 feet wide, has excellent correlation with the section drawm on the 1951 drill holes. Most of the graphite is medium fine to coarse medium grained (1 mm-10 mm) recrystallized flake graphite.

Hole 88-2, drilled at -80° on a line with 1951 hole N1 (azimuth 330°), intersected a similar section of rocks and mineralization. More lost core was experienced in this hole, possibly because the hole is slightly closer to the scarp face or a fault was encountered. Very open ground (sand seam) was intersected close to the lost core.

The width of the main graphite zone was fifty-one feet in this hole.

A six inch seam of 80% graphite was observed which probably correlates with the high grade band observed in 88-1. Graphite textures were similar to the first hole.



#### CONCLUSIONS

The drill holes confirmed in general the location of the main graphite horizon as indicated by earlier drilling. Although core recovery in hole 88-2 was not as complete as in the first hole, a representative sample was recovered which can be used for metallurgical testing.

The 51'-width of the better grade graphite material interpreted in hole 88-2 may be caused by faulting of the zone or lost core at the more friable graphite seams.

The most important results of the 1988 drill program are the recognition of fairly coarse flake graphite and the existance of very high grade correlatable seams. Neither of these have been stressed in previous reports.

Natural graphite prices vary a great deal depending on character (amorphous, flake or fibre) and grain size. Metallurgical testing must be done to determine what products can be recovered and a market study made in order to define the value of the deposit.

#### RECOMMENDATIONS

It is recommended that investigation of the property be continued. Metallurgical testing of the core from the 1988 drilling and market studies should be done. A preliminary study will have to be made to develop a budget for the work.

The market study will define the most valuable likely products to be separated in the metallurgical work and give an initial value to the reserve tonnage when the products from the deposit are known. The metallurgical test work should be sufficiently comprehensive to indicate grindability factors, recovery and product quantities, purity and quality.

Respectfully submitted

Toronto, Ontario December 30, 1988. Robert L. V. Ekstrom B.A.Sc. P. Eng.

#### CERTIFICATE

## I, Robert L. V. Ekstrom, do hereby certify that:

- (1) I am president of the private mineral exploration service firm, Canadian Oresearch Inc. of Toronto, Ontario.
- (2) I reside at 1 Rolph Road, Toronto, Ontario.
- (3) I am a graduate of the University of Toronto with a B.A.Sc. degree in Applied Geology, 1956.
- (4) I am a registered member of the Association of Professional Engineers of Ontario.
- (5) I have worked in my profession in mining and exploration in Geology since 1956, and have had experience with precious, base-metal and iron deposits in Canada, the USA and the United Kingdom.
- (6) I do not own, directly or indirectly, nor do I expect to receive any interest, directly or indirectly, in the property described in this report or any adjacent or related property or in any company to be formed.
- (7) The accompanying report is based on personal supervision of the diamond drill program, intimate knowledge of the core through logging, studies of government reports, published and unpublished reports, and data filed at the MNA assessment files.

Robert L. V. Ekstrom B.A.Sc. P. Eng.

December 30, 1988.

APPENDIX

### Ministry of Natural Resources

#### Work Permit

Distribution Part 1 - Permittee

2 - File

3 - Field Office

4 - Other

Under the Forest Fires Prevention Act and the regulations, and subject to the limitations thereof and subject also to the terms and conditions herein, this permit is issued to:

Name of Permittee

Paul Thompson

Post Office Address

Box 1171, Lakefield, Ontario KOL 2HO

To conduct an operation from the 21 day of November, 1988 to and including the 31 day of December, 1988, on the following work permit area:

Part Lot 10 and 11, Concession XXII, Cardiff Twp.

For the purpose of

Mining

(Claim EO 898194)

#### Subject to the following conditions

- 1. The Permittee shall keep this permit or a true copy thereof on the work permit area.
- 2. The person in charge of the operation conducted under this permit shall produce and show this permit or the true copy kept on the work permit area to any officer whenever requested by the officer.
- 3. Other conditions:

If conditions are such that wildfires could occur during the period covered by this permit, fire fighting equipment shall be maintained in good condition on the operation as per Appendix "B", Schedule 1, Item 2 of the attachment.

Please ensure that the extracts from the Forest Fires Prevention Act in the attachment are reviewed.

The operation must be carried out in such a manner that a serious fire hazard is not created.

All applicable municipal and provincial safety requirements should be adhered to

Place of Issue

Date of Issue

Signature of Issuing Officer

Bancroft, Ontario

November 24, 1988

~ A. Ireland-Smith, District Manager

#### **Important**

Separate authority must be obtained before cutting any timber and before doing any burning.

This permit does not authorize the permittee to carry on operations on privately held land, as such authority can be given only by the owner of the land.

# Resource Development P.O. Box 1171 Leftefield, Ontario, KOL 2H0 (705) 652-8541

### DRILL REPORT

IAX diamond drilling claim # EQ-898J94 and # 966534.

Nov. 21/88 Arrived in Wilberforce and dropped off drill at the bottom of the hill. Checked drill site.

Nov.22/88 " Moved drill to the top of the hill and set-up.

Nov. 23/88 Started drilling vertical hole 88-1. Casing to 7 feet, hole to 54 feet. Water hole went dry.

Nov. 24/88 Hole to 116 feet. Moved pump and hose line to new water supply.

Nov. 25/88 Hole 88-1 complete at 204 feet. Pulled casing and changed angle to 80 degrees.

Nov. 26/88 . Started drilling 88-2. Casing to 7 feet, hole to 90 feet.

Nov.27/88 Hole to 166 feet. Ground some core caround 110 feet and hit gravel or soft seam in same area, have to drill through caving in this area every run.

Nov. 28/88 Hole to 196 feet 88-2 complete. Removed casing, broke down and loaded drill and cleaned drill site.

Total footage was 400 feet of IAX diamond drilling.

Paul Thompson

COMPANY: Rinaldi PROPERTY: Cardiff Graphite

Page 1 Hole No: 88-1 Survey: \_\_ Claim No: <u>EO</u> 898194 Location: <u>C20-d1ff</u> Tup Coords: <u>323N</u> 2945E Elev: <u>~ 1485</u> Depth: \_\_\_ Azimuth: Angle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Bearing:\_\_\_\_ Core Size: / A X Depth:\_\_ Started: Nov 21, 1388 Completed: Nov. 25, 1988

Drilled By: Resource Development

Core Recovery: 96,5% Logged By: Robert Ekstrom

			Core	ר או	ERSECT	ION	Sample	ANALY	SIS
FROM	ТО	DESCRIPTION	Reed	FROM	то	LENGTH	No		
c.c	7.0	Casing							
7,6	36.0	Mixed banded garisses	29.0						
		biotite - hornblende - chlorite and	ļ						
		biotite - hornblende - chloriste and	<del>                                     </del>		1				
		Banding 65-75° Minor fine diss purite		<b> -</b>					
36.0	38.45	mettled mfg calcite-hern-hist gn  Banding 65-75° Minor fine diss pyrite  Fg-Fmg biet-hern gn. Minor  pink quartz-feldspar sections. Bands  and diss graphite (3-4 mm flakes)  1-5% " Pyrite as above  Bds 65-75° Minor calcite.	2.45	36.0	38,45	2.45	A 973		
		pink quartz -feld spar sections Bands							
		and diss graphite (3-4 mm + lakes)							
		Bd. 65-25° Minor c2/eite							
44	L								
38.45	44.0	Fing grey granite gn, 1-3 /o dis	5.55	38.45	44.0	-5- 55	974		
	<u> </u>	born on band Bde 65-75							
		Fing grey granite gn, 1-3% diss graphite flakes. Some chlar-biot- horn gn bands Bdg 65-75°  Py 25 260ve							
49.45		·	I	elc) o	C 11 A	(0.0	975		
44.0	54.0	Fa-fmg pint & grey banded granite gn	8.7	44.0	54.0	10.0	273		
		Varieble araphite - 1-5 % diss flakes.							
		Fg-Fmg pink & grey bouded granite gn 46.0-47.1 born-biot-chlor gn Varieble graphite -1-5 % diss flakes.  Py 29 above							
54.0	58.53		دی رہے	540	58-3	453	976		
34.0	36293	frag pink granite graiss, minor biot-chlor gn sections with most of graph. 0.5- 2% graphite. Py is above	7225	2 7.0	.503.5	,~ ,	2/2		
		0.5 - 2% graphite . Py as above							
						1			
	ļ		-			11/	10/1	11-2	

COMPANY: Ringles

PROPERTY: Cardiff Graphite

Page Z

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Hole No:	<del></del>	•	Survey:		
Claim No:	Location:	Depth:		Dip:	
Coords:	Elev:			•	
Bearing:	Angle:	<u></u>			
Depth:	Core Size:				
Started:	Completed:		<del></del>	·····	
Drilled By:		<del></del>			
Core Recovery:			<del> </del>		

			Core	INT	ERSECTI	ON	Sample	ANAL	YSIS	
FROM	то	DESCRIPTION	Recd	FROM	то	LENGTH	Nc.			
58,53	61.87	Fing bict schlor-horn-tale-graph and	3,34	58.53	61.87	J. 34	A977			
		Bdo 65-75°. Mcg grante go with coorse								
		Fing bict chlor-horn-tale-graph gn.  Bdg 65-75°. Meg grante gn with coarse  pyrite bleb from 60,4-61.4, 1-5% graph								
61.87	66.40	As above. Bands semi-massive grantite	4.53	61.87	66.40	4.53	378			
		5-10 % graph, Streek, Thebspy								
		As above. Bands semi-massive graphite 5-10 % graps, Streeks & blebs py Meg pink to grey migmetite from 65-7-664 Minor calcute Bdg 65-75								
66.4	73.5	·	7.1	66.4	73.5	7. 1	979			
		Mfg biot-chlor-horn-graph gr. Bands  massive graph - 10-15 % graph averall.  71.0-71.75 - 30% graph  Diss to coarse blebs pyrite  72.4-72.9-10% py. Bdg 65-75°								
		Diss to coarse bless pyrite								
		72.4 - 72.9 - 10 To py . Bdg 65-75	.,							
73.5	80.82	Mixed biot-chlor-horn go and bands pink	7,25	73.50	80.82	7. 32	980			
		Mixed biot-chlor-horn on and bands pink and grey granit on Mag. Bolg 65-75° Diss fine graph 6.5-2%. Miner py							<u> </u>	
		Diss time graph 6,5 - L to . Miner py							· · · · · · · · · · · · · · · · · · ·	
80.82	88.25	Mixed forme grey & pink granite gn and formes biot-chlor-horn gn. 2cm band sm graphite at 87.6. Coarse blobs py at 88.0-88.25. 1.5 % graph Bdg 76	7.35	80.82	88.25	7.43	138			
		fg-mfg biot-chlor-horn gn. 2cm band								
		at 88.0 - 88.25. 1.5 % graph Bdg 76"								
0875	94.7		6.13	E8.25	34.70	6.45	982			
20,23		Fy-mfg bonded bot-love chlorge.  BAg 70-80° 1-3 lucless graph flotes								
										P5-64

COMPANY: Ringle,
PROPERTY: Carolift Graphite

Pege -	3
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Hole No: 88 - /	Р	ROPERTY: Cardiff Graphite	12.	ege 3
Claim No:	Location:Elev:	Depth:	Survey: Azimuth:	
Bearing:	Angle:Core Size:			—————
Started:	Completed:			
Core Recovery:	Logged By:			
				·

FROM	ТО	DESCRIPTION	Core	IN	FERSECTI	ON	Sample.	ANALYSIS	
947	925	Lest Core	Read	FROM	ТО	LENGTH	Ne	ANALISIS	
			<del> </del>	<u> </u>					+
12.5	10.5.5	Mixed matic and granite go Diss graph	+	3					+
		1-5 % Prince py. Bdg 65-75.	8.0	975	105.5	<u> 6.0</u>	17.283		1
ا ــ ــ ــر ۵	111		<del>                                     </del>						
03.5	1110	Fy Fmg matic gness 5-10 % graphite  dtss t/skes and 5m bands . Bdg 65-80°  102.5-103.0-80% graph & 10% pyrite	5.3	1055	111.0	5.5	96.4		
<del></del>		atss flakes and SM bands . Bds 65-80.		7,53,5	- 77,0	2.3	984		
		102.5-103.0-80 % graph + 10% pyrite							-
· · · · · · · · · · · · · · · · · · ·		Stone fore on ports							+-
	<del>-</del>	graphite & pyrite							+
11.0	113.9	Boots I hive							+
		Banded biet-hown gn. 75° bdg. Minor narrow bands course graph1-3% overall 6" cg pink feldspar vein, 40° st 111.6	2.3	111.0	113.9	2.9	985		+-
		6" cc pat feldens in the							†
		7 Francisco VEIN, 40 27 111.6							
13.9	115.2	Lost Core							
,									
15.2	126.0	ra finely bended green horn-biot an	10.6	1152	126.0	(0.0	386		<b> </b>
		Minor fo graphite 1-2%			720.0	70.0	986		<del> </del>
		Fig finely bended green horn-biot gr. Minor fg graphite 1-2%  Minor py Adg 70-80°							<del></del>
26,0	130.4								
	230.1	1-9 odd norn & bist yn. More hezvy biot bouls	4.4	126.0	130,4	44	387		
		2-39) dischile -2-5 %							
		Fig bold horn & biet on. More heavy biot bouls More eg graphile - 2-5 % 2-3% diss py. Minor caleite. Blg 75°							
30.4	133.6	D. L.							
		J 13 13 13 13	32	130.4	133.6	3.2	988		

COMPANY: Rineldi PROPERTY: Cardiff Graphite

Page 4

Hole No: 88-1				
			Survey:	
Claim No:	Location:	Depth:		Dip:
Coords:	Elev:	•		<i>о</i> тр
Bearing:	Angle:			
Depth:	Core Size:			
•				
Storted:	Completed:		-	
Drilled By:		All and the second seco		
Core Recovery:	Logged By:			
•		-		<del></del>

			Core	INT	ERSECTI	ON	Somple	ANALYSIS		
FROM	то	DESCRIPTION	Recd	FROM	TO	LENGTH		ANALISIS		
33.6	143,8		<del> </del>	133,6			A 289			
55.2	, .,,,,,	Bay 750 Minor narrow bends with		7 3.5, 6	113.0	70,2	7709			
		course boot and graph. 1-2% graphite								
		Coarse ord Jagranie							<del></del>	
143.8 1	153.5	Mised fg grey & grey-green finely bondedy, with some coerses colvite and/or augite bende. Bdy 60-80° 1°/0 diss py, 0.5-1% fg graphite Some very coerse biot bonds.	9.7	143.8	153.5	9.7	990			
		with some coerse calcite and/or								
		augite bande Bda 60-80"								
		1 % diss pr. 0,5-1% fo prepito								
		Some very cody e triot bonds.								
53.5	163.0	As above. Minor diss graphite & prists	3.5	1.53.5	163.0	3.5	991			
163.0	186.0	Mixed for sign. Some very cg augite	2.3.0							
		Bdg contorted or destroyed by								
		recrystalization in some sections								
		Mired for sign some very agaugite  Bolg contexted or destroyed by  recrystelization in some sections  Boly 60-80. Miner disapy.								
			***************************************							
186.0	193.0	As above except solphides mostly	7.0							
		As above except solphides mostly pyrrhotite								
070	2011									
93.0	204.0	Park green to black fg biet bern gn.  Finely banded 75°. Diss pyrhetite 1967-197,3 cg green aug, te and sm	11.0					<u> </u>		
		Finely banded 75 Wiss pyrhetite								
		136.1-13/13 Eggreen dug, te droi SM							+	
		2035 - 204.0 cmg pink granite								
		ABJO - 20 4.0 Emp ping granite								
		Total core recovered	140.23						1-	
	2040	End of Heis								
	~~ "									

COMPANY: Ringld.
PROPERTY: Cordiff Graphite

Page 1

Hole No: 88-2			Survey:		-
Claim No: EO 898194	Location: Cardiff Tup	Depth:	Azimuth:		Dip:
Coords: 323N 2945E	Elev: ~ 1485				
Bearing: AZ 330°	Angle: - 80°	<del></del>			
Depth: / 96 /	Core Size: IAX	<del>-,-</del>			
Storted: Nov 26, 1988	Completed: <u>Nov 28, 1988</u>				
	velopment			N. J	
Core Recovery: 87.5%	Logged By: No best Ekstro				

			Core	INTERSECTION			52mple ANALYSIS			
FROM	ТО	DESCRIPTION	Recd	FROM	то	LENGTH				
0,0	7.0	Casing								
7. 🐧	37.15	Mixed banded horn-chlor-biot gn with	29.9					<u>.</u>		
		Some bonds with felds to go aut and coleite - augite - horn - biet gn. Bdg 75-80° Miner narrow feldsper veins at 55-60° Very miner graphite Some coarse flakes in coarse vein		ļ <u> </u>						
		25-20° Minne as folder	-						- <del> </del>	
-		at 55-60° Very miner graphite				-		* · · · · · · · · · · · · · · · · · · ·		
		Some coarse flakes in coarse vein								
		material. Sections with diss po					<u> </u>			
38.15	40.63	Mixel ga as above plus pink to grey  fging grante gabande. Bdg 75-80°  Bande with up to 5 % graphite.  1-2 % graphite overall. Miner py	3.48	37.15	40.63	3.48	A 956			
		Bride with up to 5% graphite						<del></del>		
		1-2 % graphite overall. Miner py								
40.63	45.15	As above - granite you more predominist Scueral 1-2 cm graphite bands 5-10 %. Ang 1-3% of sphite bands of this po	4.51	40.63	45.15	4.52	957			-
		Several 1-2 cm graphite bands 5-10%								
		Bdg 75-80°								
15.15	49.80	Mfg chlor-biot-born gn. Bdg 75-80°  Minor bands grey to pick mg granite gn.  (recrystalized). Minor graphite sections bess than 1% graphite. Scattered	4.60							
		Minor bands gray topick ma granite ga								
		(reconstatized). Minor graphitic sections		110.0					ļ	
		sections diss py, por Minor esteite		73-15	54.55	9.40	958			-
		bondy								
9.80	5255	Banded sink	//				1	1		
		Banded pink granite gn. Miner bist-chlor-hola gn bands. 75-80° < 1 % graphite flakes to 4mm.	4,53			· · · · · · · · · · · · · · · · · · ·	1/2	1/		+->
		, some finance flates to them.					1/1/10			HPS-6460

COMPANY: Rinzldi PROPERTY: Cardiff Graphite

Page Z

Hole No: 88-2				_
Claim No:	Location:	Depth:	Survey:	<b>D</b> .
Coords:	Elev:		Azimom.	Dip:
Bearing:	Angle:			
Depth:	Core Size:			
Started:	Completed:			
Drilled By:				
	Logged By:	-		<del></del>
•	•			

FROM TO	DESCRIPTION	Core				Jample	ANALYSIS		
		Reed	FROM	ΤO	LENGTH	No			
54.55	57.40	Pink & grey grantized go with biot-chlor-have	2.85	54.50	57.40	2.85	A 959		
		sections. Scattered recrystallized graphit							
		54.55-55.6 - 10-20 %- graphite. Disspop							
7.40	60.25	Grey granite an with biot-chlor- graphite bund	2.85	57.40	60,25	2.85	960		
		Grey granite on with biot-chlor-graphite bund							
		1-2% graphite 2-3% diss py, po							
0.25	64.15	Eg chlor-boot yn to 62.4 followed by mixed	3.90	60.25	64.18	3-90	261		
		enersies Bands of up to 70% orach				<u> </u>			
		Average 3-5 % Bdg 75-80° Disspe to 61.8 atter which almost all sulphide							
		to 61.8 atter which almost all avelabide							
		is pyrito.							
4.15	70.00	For chlor - bist - horn on . Bd. 75-80°  Bords of very strong graphite . Strocks,  trains and diss py . Co graphite  flakes to I cm	5.85	64.18	76.00	5.85	962		
		Bands of very strong graphity, Stesses							
		trains and diss py Co graphite							
		flakes to 1 cm							
		68.5-69.0 - 80 % 3 ezpl 68.4.70.0 - 10 % py in coerse SM streeks. Py & graphite Condution Avg est 8-12 % graphite.							
		68.4.70.0 - 10 % By in coerse SM							
		streeks. Py & or zuhich conductive							
		Ave est 8-12 % graphite							
0.00	75.00	Fing chlor-bist-hora ga Some granite	5.00	70.00	75.00	5.00	963		
		4m Jections							
		72.3-72.9 - cg pink grante migmatite Graphite diss flakes+ streaks 1-5 %							
		Graphite diss flakes+ streeks 1-5%							
		D/35 Py							

PROPERTY: Candiff Graphite

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Hole No: &8-2	•	HOLEKTI. CANALTY BY SPALLE		700
Claim No:	Location:	Depth:	Survey:	
Coords:	Elev:		Azimuth:	Dip:
Bearing:	Angle:			
Depth:	Core Size:			
Started:	Completed:			
Drilled By:				
Core Recovery:	Logged By:			
•	,			

		Core	INTERSECTION			Janeple	ANALYSIS		
FROM	ТО	DESCRIPTION	Recd		то	LENGTH		ANALISI	
75.00	82.10	As above. Very miner calcite-horn bands	7.10	75.00	8210				
		1-5% graph. Diss py							
82.10	92.40	Fg banked biot- horn- chlor gn and minor	10.00	82,10	92.40	10.30	965		
	<u> </u>	chlar-horn on Bolg 75-80	ļ						
		92-0-924 - section hadly shattered							
		92-0-924 - section bodly shattered							
		calcite-hornblude	<b>_</b>						
9240	95,70	Lost Core							
			<u> </u>	, .,					
95.70	101.80	Mfg biet-chlor gn. with bands fg dark grey acid gn. Variable diss. flekes end streaks of graphite. Aug 0.5-2% Miser calcite sections 95,7-97.0	5.4	95.70	101.80	6.10	966		
		scid gr. Vsrisble diss. Flakes end	ļ						
		Streaks of graphite, Aug 0.5-2%							
		Prinor colcite sections 90,7-97.0							
	<b></b>	Minor diss py							
10100	102 75	6					0.4-		
767.80	102.23	Fg-mg pink granite gu. 5 ame cg py streaks in coorser sections	5,0	10130	107,25	5.45	967		
	· · · · · · · · · · · · · · · · · · ·	5 Treats in courser sections							
	· · · · · · · · · · · · · · · · · · ·	103.2-105.0 - biot-chlor on with graphstucks  Aug 1-2% graphite							
		409 1 2/2 9V3/217C							
10726	11250	Lost Corc							
101-3	112.00								
112.50	1/3.20	Broken framents ma pink on and	0.7	112.50	113.20	87	968		
		Broken fragments mg pink ga and calcite hours. Mino- graphite							
113.2	116.0	Lost Core							

COMPANY: Rinaldi PROPERTY: Carde & Graphite

Page 4

Hole No: 88 2				•		
			Survey:			
Claim No:	Location:	Depth:	Azimuth:	Dip:		
Coords:	Elev:					
Bearing:	Angle:					
Depth:	Core Size:					
Started:	Completed:					
Drilled By:						
Core Recovery:	Logged By:					

		Core	INT	ERSECTI	ON	James ly	ANALYSIS		
FROM	то	DESCRIPTION	Read	FROM	то	LENGTH	No		1
116.00	121.00	Mfg chlor-tale-augite yn Minor esteite bends. Open sem at 118.5.	4.00	116.00	121.00	5.00	A 969		1
		estaite bands. Open sem st 118.5.							
		6"36" esleite vein 2+ 115.7 -wallreck							
		frans in colcite matrix		<u></u>					
		Less than 16/e diss graph. flakes Minorpy	4	ļ					
2/.60	130.70	Mixed bands 23 above with fine grained grey	8110	121.00	130.20	9.70	970		
		and pink granite on Bdg 75-800	<b></b>						
		Mixed bands 23 above with fine grained grey and pink granite gn. Blg 75-80° minor graphite. Cove at 1210 from seem							-
30.76	133.10	Fg chler-extensitionse ga. Altered section with coarse bist to 2 cm 130.3-130.8.	2,35	130.70	133,10	2.40	71 قر		
		with coarse bist to 2 cm 130.3-130.8.							
		Graphite 1-2 % Minos py							<del> </del>
33.10	135.50	Fg-Co pink rignatite Contacts 70°	2,40	133.10	135.50	2.40	972		
		Eg-Cg pink migmatite Contret, 70° Calcite breceis et apper atet							+
35,58	157.00	Fg grey-green esk sil - biot gn. Bdg 75-80°.	20.65						1
		Minor course migen. Dris py po. Same phlogojite		135,50	142.00	6.50	972 A		+
57,00	187.35	Gre, green calcail-plag on Bolg 75-800. Many coarser augen felds sections Miner po	28,70						
		coarser sugar folds, sections Miner po							
7.35	191,75	white meg calcite(marble ?) Ctets 75-80. Amber siderite grains to 3 mm at ctets. Miner tale & musicovite.	4.40						1
		grains to 3 mm at ctos. Miner tale & musicovite.							-
91.75	196.0	Fg-mfg colesil-phlos gn Bdg 75-80"	3.90						1
			170.17						+