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ARTAX EXPLORATION SERVICES

/

REPORT ON GEOPHYSICAL WORK

JEHANN LAKE PROPERTY PENHORWOOD TOWNSHIP

RECEIVED

JAN 27 1987

MINING LANDS SECTION

D. LONDRY TIMMINS GEOPHYSICS

JANUARY, 1987

SUMMARY AND RECOMMENDATIONS

Magnetic and very low frequency electromagnetic (VLF-EM) surveys were conducted on the Jehann Lake property, Penhorwood Township during November of 1986.

The VLF survey defined contacts between different rock units. Other weak, discontinuous anomalies may reflect structural features or disseminated mineralization.

The magnetic survey outlined an ultramafic unit in the southeast corner of the property. The source of isolated magnetic highs on the rest of the property include diabase, local concentrations of magnetite in volcanics and possibly, altered porphyry.

Trenching and an IP survey over VLF anomalies on the property would help determine if they represent potential drill targets.

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INTRODUCTION

The following report covers geophysical work carried out on the Jehann Lake property during November, 1986. The property consists of 26 contiguous claims in Penhorwood Township, Porcupine Mining District. The claims are numbered as follows:

> P 639978 - 639983 inclusive P 924165 - 924184 inclusive

The property is located approximately 40 miles southwest of the city of Timmins (Figure 1). It was accessed by driving south on the Kukatush Road from Highway 101 for 4.5 miles and then east along a bush road for 2 miles.

The field crew included W. Gasteiger, D. Londry and S. Ryan.

PREVIOUS WORK

Two other companies have filed assessment work on the property.

In 1946/47 McIntyre and Castle Trethewey carried out an exploration program in the area which included all of the claims on the present property. The program included mapping the geology on the property, which involved some trenching

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FIGURE 1: Location Map

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and stripping. A magnetic survey was carried out and 65 samples from the area were tested for magnetic susceptibility. A self potential survey was also run over a portion of the property.

In 1959/60 Kakatush Mining Corporation carried out a magnetic survey over the claims. This company was interested in the occurence of iron formations as a possible source of iron ore.

SURVEY DESCRIPTIONS

An east-west baseline was established across the middle of the property. Cross lines were cut every 400 feet and picketed every 100 feet (Figure 2).

The magnetic readings were taken with a Scintrex IGS-2/MP-4. This instrument is a proton precession magnetometer which measures the earth's total field to an accuracy of .1 gammas. The diurnal drift was monitored every 30 seconds with a Scintrex MP-3 base station magnetometer. A total of 1191 readings were taken along 21.9 kilometres of line.

The VLF survey was carried out with the Scintrex IGS-2/VLF-4. Parameters measured include the horizontal field strength and the in-phase and quadrature components of the vertical field, normalized to the field strength. The transmitter used was Cutler, Maine which transmits at a frequency of 24.0 kHz.



RESULTS

The magnetic results are contoured on map 1. The VLF results are plotted on two maps: the dip angle and quadrature component of the vertical field are profiled on map 2; the dip angle is Fraser filtered on map 3.

The property can be divided into four areas with different magnetic responses. The edge of these areas are marked by conductors reflected in the VLF results.

VLF anomaly A strikes east-west across the property at approximately 1000 North. The source of this anomaly is likely the contact between known sediments to the north and volcanics to the south. The magnetic field over the sediments is uniform. Local variations in the field such as the low over Jehann Lake are probably due to a greater depth to bedrock.

Between conductors and B. the volcanics A are characterized by isolated magnetic highs. The strongest of these anomalies, up to 1600 gammas above background, is located just to the south of Jehann Lake on Lines 2800 and 3200 East. The source of the anomaly is described by Brant, et al. to be scattered magnetite in basalt. A rock sample taken by McIntyre and Castle Trethewey, close to the magnetic 400 North on Line 5200 East, had a high magnetic high at susceptibility and was described to be diabase.

Between conductors B and C the magnetic field increases to the north. This area is underlain by volcanics with a lower magnetic susceptibility than the volcanics to the north.

Anomaly C is located along the north edge of a northeast striking magnetic high which most likely reflects an ultramafic unit.

Numerous other weak VLF anomalies on the property may reflect shears or disseminated sulphides.

us DOUGLAS LONDRY

REFERENCES

Brant, A. A., Johnson, A. E. and Bonnell, J. W. B., Report on Exploration Work, McIntyre and Castle Trethewey Claims, Penhorwood and Reeves Townships, Sudbury Mining District, Ontario. Timmins Assessment File T-84.

Drumbrille, J. C., 1961, Kakatush Mining Corporation. Timmins Assessment File T-669. APPENDIX A



Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

File_

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) <u>GEOPHYSICAL</u>	<u>.</u>	
Township or Area Penhorwood	Township	MINING CLAIMS TRAVERSED
Claim Holder(s) Kenneth Cro	osbie	List numerically
<u> 41 Lakevie</u> v	Road, Elliot Lake, Ont.	
Survey Company Timmins Geo	pphysics	P 639978
Author of Report Douglas Lor	ıdry	P 639979
Address of Author P.O. Box 1	783, South Porcupine, Ont.	D 639980
Covering Dates of Survey 10/2	(linecutting to office)	f
Total Miles of Line Cut 25 r	niles	<u>P</u> 639981
		P. 639982
SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim	<u>р 639983</u>
	Geophysical 40	р <u>924165</u>
ENTER 40 days (includes	-Electromagnetic	P 92/166
line cutting) for first	-Magnetometer	
FNTER 20 days for each		P
additional survey using	Geological	P
same grid.	Geochemical	P 924169
AIRBORNE CREDITS (Special pro	ovision credits do not apply to airborne surveys)	- 02/170
MagnetometerElectroma	gnetic Radiometric	<u>P</u>
(ente	r days per claim)	<u>P</u> 924171
DATE:	NATURE: Author of Report or Agent	
		<u>P</u>
	1 , 6 , -, -	
Res. Geol Qua	inications	P. 924175
File No. Type Date	Claim Holder	P 924176
		P 924177
Type of Survey(s) GEOPHYSICAL Township or Area Zenhorwood Township Claim Holder(s) Kenneth Crosbie 41 Lakeview Road, Elliot Lake, Ont. Survey Company Timins Geophysics Author of Report Douglas Author of Report Douglas Covering Dates of Survey 10/10/86 to 19/01/97 Covering Dates of Survey 10/10/86 to 19/01/97 Covering Dates of Survey 10/10/86 to 19/01/97 Cotal Miles of Line Cut 25 miles SPECIAL PROVISIONS Days CREDITS REQUESTED Geophysical ENTER 40 days (includes -Electromagnetic Ine cutting) for first -Radiometric survey. -Radiometric ENTER 20 days for each -Other additional survey using Geological same grid. Geochemical DATE: 22/01/87 SIGNATURE:		
	· · · · · · · · · · · · · · · · · · ·	
	••••	TOTAL CLAIMS26

837 (85/12)

OFFICE USE ONLY



MINING CLAIMS TRAVERSED (cont'd)

- P 924180
- P 924181
- P 924182
- P 924183
- P 924184

GEOPHYSICAL TECHNICAL DATA

G	ROUND SURVEYS If m	ore than one survey, s	pecify data for each t	ype of survey		~	Ľ
	umber of Stations 1194		Number	of Readings	VLF: 11	91, MAG: 1	191
	under of Stations	•	I ine en	cing = 400	 £t.		
ט ת	ation interval <u>100 ± 0</u>	= 40%	Line spa	.cmg			
n	onie scale <u>vol i emi</u>	00 gammas	FRASER FILTER	: 10 ⁰			
ŭ	ontour intervalinterval	oo gammaa					<u> </u>
r N	Instrument SCINTR	EX IGS-2/MP-4					
STIC.	Accuracy - Scale constant	0.1 gammas					
GNI	Diurnal correction method	SCINTREX MP-3	base station ma	gnetometer			
MAC	Base Station check-in inter	rval (hours) <u>30</u>	seconds				
	Base Station location and	valueLINE 2800	WEST 1300 NC	RTH			
		59123 gam	nas		·		
				· .			
U	Instrument SCINTE	XEX IGS-2/ VLF-4					
ETI	Coil configuration VERTIC	CAL LOOP	<u></u>		<u></u>	,	
CN	Coil separation						
MA	Accuracy 1%	·····					
<u>rrc</u>	Method:	🖸 Fixed transmitter	Shoot back	🗔 In lin	e [🗆 Parallel lir	ne
EC	FrequencyCutler	r, Maine 24.0 KHz					
	Parameters measured	n-phase and quadra ormalized to the h	(specify V.L.F. station) ture components (orizontal field (of the verti strength	.cal magne	etic field	
	Instrument						
	Scale constant						
IY	Corrections made					·	
AVI							
GB	Base station value and loca	ation					
	<u> </u>		······································				
	Elevation accuracy			· · · · · · · · · · · · · · · · · · ·			
	Instrument						
Z	Method 🔲 Time Domai	n		Frequency Do	main		
110	Parameters – On time			Frequency	······		
<u>Y</u>	– Off time			Range			
ARJ	– Delay time .						
STU	- Integration	time					
SI	Power						
	Electrode array						
ION	Electrode spacing						
	Type of electrode						
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Ministry of Northern Development and Mines



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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) <u>GEOPHYSICAL</u>						
Township or Area Penhorwood Township	MINING CLAIMS TRAVERSED					
Claim Holder(s) Kenneth Crosbie	List numerically					
41 Lakeview Road, Elliot Lake, Ont.						
Survey Company Geophysics	P 639978					
Author of Report Douglas Londry	(prenx) (number) P 639979					
Address of Author <u>P.O.</u> , <u>Box 1783</u> , <u>South Porcupine</u> , <u>Ont</u> . Covering Dates of Survey_ 10/10/86 to 19/01/87	P 639980					
(linecutting to office) Total Miles of Line Cut25 miles	P. 639981					
	<u>P 639982</u>					
SPECIAL PROVISIONSDAYSCREDITS REQUESTEDGeophysical	P. 639983					
-Electromagnetic40	P. 924165					
ENTER 40 days (includes line cutting) for first – Magnetometer 20						
survey. –Radiometric						
ENTER 20 days for each -Other additional survey using Geological	P					
same grid. Geochemical	P					
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	P 924170					
Magnetometer Electromagnetic Radiometric (enter days per claim)						
DATE: 22/01/87 SIGNATURE: Doug less and my	Р. 924172					
Res. GeolOualifications	Р. 924174					
Previous Surveys JAN 2 2 1007	924175					
File No. Type Date Claim Holder	р 924176					
MINING LANDS SECTION	<u>P 924177</u>					
	P.924178					
Type of Survey(s) GEOPHYSICAL Township or Area Penhorwood Township Claim Holder(s) Kenneth Crosbie 41 Lakeview Road, Elliot Lake, Ont. Survey Company_Timmins Geophysics Author of Report_Douglas Londry Address of Author P.O., Box 1783. South Porcupine, Ont. Covering Dates of Survey_ 10/10/86 to 19/01/87 Greefal 639978 Chain Holder (s) 25 miles SPECIAL PROVISIONS Davis CREDITS REQUESTED Geophysical ENTER 40 days (includes Radiometric20 Ine cuting) for first Radiometric20 survey. Radiometric20 P. 924167. Magnetometer20 Signart de not septy to sinbarne survey) Magnetometer11 Reform or Areen P. DATE: 22/01/87 File No. Type Qualifications JAN 2 7 1987 P. 924173 P. 924174 P. 924175 P. 924176 Res. Geol						
	TOTAL CLAIMS26					

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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<u>GROUND SURVEYS</u> – If more than one surv	ey, specify data for eac	1 type of survey
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N	lumber of Stations.	1194	Number of ReadingsVLF:	1191, MAG: 1191
S	tation interval	100 ft.	Line spacing 400 ft.	
P	rofile scale <u>VLF</u> :	1 cm. = 40%	• •	
С	ontour interval	MAG: 100 gammas	FRASER FILTER: 10 ⁰	
	Instrument	SCINTREX TGS-2/MP-4		
UCED POLARIZATION RESISTIVITY GRAVITY ELECTROMAGNETIC RAGNETIC S 7 2 2 2		0.1 gammas		
NET	Accuracy – Scale	SCINTREX MP-3	hase station magnetometer	
AG	Diurnal correction	$\frac{1}{1} \operatorname{method} \frac{1}{1} $	seconds	*******
A	Base Station check	k-in interval (nours)	WEST 1300 NORTH	
	Base Station locat	ion and value		
	·		na 5	
잌	Instrument	SCINTREX IGS-2/ VLF-4		
IET	Coil configuration	VERTICAL LOOP		
NGN	Coil separation		·	
/WC	Accuracy	1%		
TR	Method:	S Fixed transmitter	🗆 Shoot back 🛛 In line	Parallel line
EC	Frequency	Cutler, Maine 24.0 KHz	(enacify VI F station)	
E	Parameters measu	red in-phase and quadra	ture components of the vertical ma	agnetic field
<u>0 POLARIZATION</u> SISTIVITY <u>ELECTROMAGNETIC</u> <u>O 7</u> O 7	Turumeters mouse	normalized to the h	orizontal field strength	
	Instrument			
	Scale constant			
ΥT	Corrections made			
AVI				
GR	Base station value	and location		
	Elevation accurac	y		
			, and the state with	
	Instrument			
z	Method 🗆 Tim	e Domain	🗖 Frequency Domain	
Ĕ	Parameters – On	time	Frequency	
N IZA	– Off	time	Range	
AR [VI	– Dela	ay time		
POI	— Inte	gration time		
ED	Power			
	Electrode array			<u> </u>
II	Electrode spacing	,		
	Type of electrode	3		

- P 924180
- P 924181
- P 924182
- P 924183
- P 924184

SELF POTENTIAL	Demos
Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	
	(type, depth — include outcrop map)
OTHERS (SEISMIC, DRILL WEL	L LOGGING ETC.)
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for unders	standing results)
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	
	(specify for each type of survey)
Accuracy	(specify for each type of survey)
Aircraft used	······································
Sensor altitude.	
Navigation and flight path recovery	y method
Ale a fe aleta da	T : 0
Aircrait aititude	Line Spacing
miles flown over total area.	Over claims only

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken_____

Total Number of Samples	ANALYTICAL METHODS	
Type of Sample(Nature of Material)	Values expressed in: per cent	
Average Sample Weight	p. p. m.	
Method of Collection	р. р. б.	
	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle))
Soil Horizon Sampled	Others	
Horizon Development	Field Analysis (test	s)
Sample Depth	Extraction Method	
Terrain	Analytical Method	_
	Reagents Used	
Drainage Development	Field Laboratory Analysis	
Estimated Range of Overburden Thickness	No. (test	ts)
	Extraction Method	
	Analytical Method	<u> </u>
	Reagents Used	
SAMPLE PREPARATION	Commercial Laboratory (ta)
(Includes drying, screening, crushing, ashing)	Name of Laboratory	19)
Mesh size of fraction used for analysis	Fetraction Method	
	Applytical Method	
Total Number of Samples Fype of Sample (Nature of Material) Average Sample Weight Method of Collection Soil Horizon Sampled Horizon Development Sample Depth Ferrain Drainage Development Estimated Range of Overburden Thickness SAMPLE PREPARATION (Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis General	Reagents Used	
General	General	
		_

D.J. Londry P.O. Box 1783 1105 Government Rd. South Porcupine, Ontario, PON 1HO (705) 235 4592 January 23, 1987

Mr. Ray Pichette Director, Land Management Branch Whitney Block, Room 6450 Queen's Park TORONTO, Ontario M7A 1W3

Dear Sir:

<u>Re: Mining Claims in Penhorwood Township</u> <u>Porcupine Mining District</u> Report of Work 346 & 355

Enclosed please find duplicate copies of a report and maps covering claims in Penhorwood Township, Porcupine Mining District. The claims aforementioned are:

> P 639978 - 639983 inclusive P 924165 - 924184 inclusive

Your prompt attention to this matter would be greatly appreciated.

RECEIVED

Yours truly,

JAN 27 1987

MINING LANDS SECTION

DL/dl cc: K. Crosby

Northern Developme and Mines	ent (Geophysical, Geochemical =	Geological,	litures) #3	55/81		If numbri exceeds s Only da	a of mining claim pace on this form, r ys credits calcula	is tra attach tecl i
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Type of Survey(s)	······	<u></u>			Township	or Area		
GEOPHY:	SICS	· · · · · · · · · · · · · · · · · · ·			PENI	HORWOOD	TWP.	
JEAN P	. PATRIE #	Kennet	-L CROS	6-y - D - 1	19816	C	- 29877	
Address								
GENERA	L DELIVERY, ALG	OMA MIL	LS, ONTARI	0				
Survey Company				Date of Survey	y (from & to) 86 18	11 86	Total Miles of line	Cut
Name and Address of Author (of Geo-Technical report)			Day Mo.	Yr. Day	Mo. Yr.		
D. J.	LONDRY, P.O.Box	c 1783, s	South Porc	upine, On	t., PON :	1110		
Credits Requested per Each	Claim in Columns at r	right	Mining Clair	ns Traversed ((List in nume	erical sequ	ence)	
Special Provisions	Geophysical	Days per Claim	Prefix	ng Claim Number	- Expend. Days Cr.	Prefix	fining Claim	- Exi Day
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For each additional survey: using the same grid	Badiometric			639980	-		924181	
Enter 20 days (for each)	- Other			639981			924182	
•	Geological			639982			924183	
	Geochemical	 		<u> </u>	-		926186	
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		Claim		924169				
Note: Special provisions	Electromagnetic			924170				
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				924174				
Performed on Claim(s)				924175			NOV 27 19/	16 16
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Calculation of Expenditure Day	s Credits	Total		924177				
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Instructions						report of	work.	21
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Date Be	earded Holder or Agent (Signature)	1	Date Approved	as Revorded	127	A TOT	
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Certification Verifying Repo	nt of Wo(k)	=([†]			<u>}</u>	1k. 7		
I hereby certify that I have a	personal and intimate ki	nowledge of	the facts set fort	h in the Report	of Work anne	xed hereto,	having performed th	he wo
Name and Postal Address of Per	son Certifying		ACU REPORT IS TO					
•						-	1 1	
<u> </u>				Date Certified	1	Certified	by (Signature)	1

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JEAN P.	PATRIE	/	lenneth	CROSBY	0-11811	C	-29877	
Address O/ C o o d o			000	100				
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Name and Address of Author (of	Geo-Technical report)		D	0				
D.J. Londry, Credits Requested per Each C	P.O. BOX 1783, Jaim in Columns at r	South ight	Mining Cla	, Untaric	List in nur	no nerical segui	ence)	
Special Provisions	Geophysical	Days per	Min	ing Claim	Expend.	N N	Aining Claim	Ext
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For each additional survey:	- Radiometric					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
using the same grid: Enter 20 days (for each)	- Other					A A A A		
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and enter total(s) here	- Electromagnetic				_	SCE	Vira_	
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	- Other	}{			MIN	N/翻题		-
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Airborne Credits		Days per Claim						┉
Note: Special provisions	Electromagnetic					REC	ONDE	P -
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in columns at right.	· · · · · · · · · · · · · · · · · · ·		Total Days (Recorded	Date Recorde	7/01	Mining B	Sellon le	1
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Nov. 7, 1986	long/as /one) my	100	87.5	1.4	Cas	Jon V	-
Certification Verifying Repor	t of Work	<u>A</u> .	L		-/2)-	₩/-	TV	
I hereby certify that I have a	personal and intimate ki	nowledge of	the facts set for	rth in the Repor	t of Work and	nexed hereis,	having performed	the wo
or witnessed same during and/ Name and Postal Address of Pare	or arter its completion	and the ann	exec report is ti	UE.			. <u></u>	·
DOUGLAS	LONDRY	Po	. Box	1783.	OUTH	PORC	OPINE	
				Date Certified	4	Certified	by (Signature)	$\overline{\gamma}$
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under Section 77 Subsection 22 of the Mining Act, I hereby order that the time for filing reports and plans in support of Geophysical (Electromagnetica Magnetometer)_____assessment work recorded on <u>November 7, 19 86</u> .19<u>87</u> be extended until and including January 30, 876-01-06. Date of Director, Land Management Branch Coples: Jean P. Patrie Douglas Londry P.O. Box 105 P.O. Box 1783 Spragge, Ontario POR 1KO South Porcupine, Ontario PON 1HO Rt Mining Recorder Timmins, Ontario

Jean P. Patrie

1333 (85/12)

On consideration of an application from the recorded holder, ...

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INSTRUMENT: SCINTREX IGS-2/MP-4 TYPE: TOTAL FIELD PROTON PRECESSION

DATUM LINE: + 58,000 gammas

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TIMMINS GEOPHYSICS MAGNETIC SURVEY ARTAX EXPLORATION SERVICES - 1 JEHAN PROPERTY PENHORWOOD TWP , n 2 e 2 f 6 4 I G I 1" = 400' lie icht ------------, iet . e. . . . (A + C) = CTIMMINS GEOPHYSICS / H P ,



INSTRUMENT: SCINTREX IGS-2/VLF-4 STATION: CUTLER, MAINE FREQUENCY: 24.0 KHz

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