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KIDD CREEK MINES LTD. REPORT ON GEOPHYSICAL WORK IN

CUNNINGHAM TOWNSHIP

(CUNNINGHAM 31)

RUNNING GHOST SOUTH GRID

NTS 410/10

CLAIMS: P 641155 - P 641175

RECEIVED

APR 1 7 1984

MINING LANDS SECTION

and the states of the

J. A. SLANKIS

APRIL, 1984

SUMMARY AND RECOMMENDATIONS

The survey results are rather disappointing. The conductors that were outlined are either associated with an iron formation and known to contain nothing of economic interest, or are formational features, most likely graphitic zones, in a mafic tuff unit. The only conductor which might normally be recommended for follow-up is zone K because of its magnetic signature; however, the airborne results show that it is the western end of a long trend of multiple, strong formational conductors.

No additional work can be recommended on the basis of the geophysical results.



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1. INTRODUCTION

1.1 General

Geophysical work consisting of magnetic, VLF and dual frequency horizontal loop surveys was carried out on this group of 21 contiguous claims, located in Cunningham, Greenlaw and Blamey Townships (Fig. 1).

The surveys were performed during July, 1983 by the following Kidd Creek employees: M. W. Zang, D. Kujanpaa, R. Daigle and M. Mageau. The crew was based at a camp at the north end of Running Ghost Lake and used a boat to gain access to the grid. The road from Sultan, 10 km to the south, to Peter Lake passes through the western part of the grid.

1.2 Previous Work

Since the early 1900's, several companies as well as numerous individuals have prospected and explored this area. Most of their efforts have been concentrated in north-central Cunningham Township where lead and zinc mineralization occurs in several bands of iron formation. However, there is no record of previous work on this grid.

The bulk of this grid lies within Cunningham Township which has recently been mapped by the Ontario Geological Survey (Siragusa, 1980). Greenlaw Township has been mapped by Donovan (1968) and Blamey Township is in an area mapped by Meen (1942). Most of the grid area is underlain by mafic



volcanics, mainly andesite, which have been intruded by gabbro and diorite, particularly in the southwestern part and around Running Ghost Lake. There are several NNW trending diabase dikes. The northeastern part of the grid is underlain by a granite intrusive.

Since Kidd Creek acquired this property, the grid area has been mapped in detail by company geologists. Their results are generally similar to those shown on the government maps except that within the intermediate to mafic volcanics there is a thick unit of well-laminated mafic tuffs which crosses the central part of the grid. Nearly all the conductors detected by the present survey are situated within these tuffs.

This grid lies within the area covered by an OGS-sponsored airborne INPUT and magnetic survey (OGS, 1982; Map 83 546). Figure 2 shows the grid outline, superposed on the combined EM and total field map.

The airborne magnetic features can be explained as follows: the low, uniform magnetic field to the northeast of the grid corresponds to the granitic intrusive; the belt of intense highs, which comes from the north and sweeps across the grid in a southeasterly direction, is produced by gabbroic intrusives; the very strong, linear trend which enters the grid from the south reflects a large diabase dike which apparently terminates near the northern edge of the grid; the high magnetic field strengths southwest of the grid are caused by gabbro; the andesite does not appear to have a



distinctive signature but underlies the areas of relatively flat magnetics.

Most of the INPUT anomalies are strong six-channel responses with conductances in the range of 15 to 30 siemens and, on the basis of medium to large second channel amplitudes, a shallow depth of burial.

2. SURVEY RESULTS

2.1 <u>Magnetics</u> (EDA PPM-350, proton precession magnetometer) The only continuous magnetic trends within this grid are the highs produced by diabase dikes and oxide facies iron formation, respectively labelled "DD" and "IF" on the map. The two diabase dikes which strike at approximately 0° are typical of this area. The third, which strikes at 100°, is atypical but its existence is confirmed by several outcrops. It should be noted that several other north-south striking diabase dikes were located by the detailed mapping, but none has any magnetic signature. The iron formation outcrops only at its northern end on Lines 10700E and 10800E, and the extension across Running Ghost Lake is based strictly on interpretation.

Excepting the above features, the magnetic data contain only a limited amount of information that can be used to extend geological units away from the few scattered outcrops. Most of this stems from the fact that the two predominant rock types, gabbro and intermediate to mafic volcanics, do

not have significantly different magnetic susceptibilities. For example, west of Line 9600E the bedrock is gabbro while to the east it is andesite; however, there is no evidence of this in the magnetic field strengths. Similarly, an extensive area of gabbro just south of Running Ghost Lake on Lines 10500E to 10900E is not defined by the magnetics.

The magnetic features within the intermediate to mafic volcanics which underlie most of the grid are mainly isolated highs and lows which show little continuity from line to line. There is no apparent difference in the magnetic signatures of the mafic tuffs and the massive mafic flows.

2.2 <u>VLF</u> (Crone Geophysics RADEM, VLF Transmitter NAA, Cutler, Maine, 17.8 kHz)

In the southern part of the grid there are numerous anomalies (labelled "S" on the map) which arise from surficial sources such as the extensive swamps and bogs in this area as well as transitions from overburden cover to outcrop. Of the anomalies from bedrock sources, B, G and H are spatially associated with an iron formation and A, C, D, E, F, J, K and M lie within the mafic tuff unit. There are also a few instances where on two adjacent lines there are responses which can be lined up to approximately parallel the geological strike and thus may define a short bedrock None of these have been labelled with a letter conductor. because they could equally well be of surficial origin.

The conductors which lie in the mafic tuffs all appear to be formational features, possibly pyritic horizons, and none is consistently magnetic along strike. Conductors A, C, D and J are completely non-magnetic; conductor E has a coincident magnetic high on a few lines, suggesting that pyrrhotite may be present locally; and conductor M has a flanking high on one line but nothing on the next. Conductor K has a coincident magnetic high on the single line where it was detected.

Conductors B, G and H appear to flank an iron formation, but none of them is magnetic except on Line 11200E where H appears to cut across a magnetic high. It may be that anomaly H reflects a fault or shear rather than a stratigraphic feature. If the interpretation is correct, conductors B and G may join up; furthermore, these conductors appear to lie at the contact between granite to the north and iron formation to the south.

2.3 <u>Horizontal Loop</u> (Apex Parametrics Max Min II, Tx - Rx = 80 m, 444 Hz and 1777 Hz)

These results are quite similar to the VLF data except that conductor E consists of several conductive segments separated by sections of low conductivity. There are a number of anomalous in-phase responses which appear to have resulted from either coil misalignment or short cable (there are no quadrature anomalies, and high and low frequency in-phase responses are almost identical) and are marked "SC"

on the maps. Also, the horizontal loop response detected at 10160N/Line 10000E may be spurious because of its unusual shape and the lack of any VLF corroboration. If it is genuine, its source must be small and must have a short strike length in order to account for the shape of the anomaly.

Conductor A is present on only two lines, although there are some uninterpretable anomalous indications on a third line, 10200E. It has a width of 5 to 10 metres, a steep south dip, a depth of burial of approximately 10 metres, and a conductance of 50 siemens on Line 10100E where it has the strongest anomaly.

Conductors B, F and G have poorly or incompletely anomalies. defined and only limited quantitative interpretation is possible. Conductor B has very high conductance on Line 10700E but its conductance decreases greatly on the next line to the east. Conductors F and G, which have approximately equal in-phase and quadrature responses, have conductances of 5 siemens. A11 three conductors are at a depth of less than 10 metres. Dips are indeterminate.

Conductor C displays remarkably uniform width, in-phase to quadrature ratios and anomaly amplitudes along strike. This zone is 8 to 15 metres wide; steeply dipping, probably to the south; buried at a depth of less than 10 metres; and has a relatively constant conductance of 20 to 30 siemens. The high conductance values suggest that this may be a graphitic horizon.

Conductor E has two sections with significant conductivity and width, located between Lines 10500E and 10700E and between Lines 11200E and 11500E. In the western section there is minimal conductivity on two lines, but on Line 10700E the conductance is in the range of 15 to 20 siemens. This section of the zone has an indicated width of nearly 20 metres, a minimal depth of burial (probably less than 15 metres on all three lines; the weak anomalies on Lines 10500E and 10600E are due to low conductivity rather than large depth of burial) and a near-vertical dip. The eastern segment is generally narrower, typically less than 10 metres wide, and has conductances in the 10 to 20 siemen range, an indicated depth of burial of 15 to 25 metres, and a steep dip, probably to the south.

Conductor J is a 5 to 10 metres wide zone of low to moderate conductivity (conductance of 10 to 15 siemens), indeterminate dip, and has a depth of burial of 15 to 20 metres.

Conductor K has a 30 siemen conductance, 10 metre width, near-vertical dip and must lie under less than 10 metres of overburden.

Conductor L is only 2 or 3 metres wide and has a conductance of 4 siemens. Both its depth of burial and dip are indeterminate.

Anomaly M is not completely defined so that the only fact that can be deduced is that its source has low to medium conductivity.

Overall, on the basis of the interpreted depths of burial of the various conductors, it is probable that the overburden thickness increases gradually from less than 10 metres around conductor C to nearly 20 metres around conductors E, F and J.

REFERENCES

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- Siragusa, G. M., 1980: Cunningham Township Area, District of Sudbury; Ontario Geological Survey Prelim. Map P.2339 Geological Ser., Scale 1:15840 or 1 inch to 1 mile. Geology 1978.
- OGS, 1982: Airborne Electromagnetic and Total Intensity Magnetic Survey, Swayze Area, Isaiah Lake Sheet, District of Sudbury; by Questor Surveys Limited for the Ontario Geological Survey, Map 80 546 Geophysical/Geochemical Series, Scale 1:20,000. Survey and Compilation December, 1980, to February, 1981.
- Meen, V. B., 1942: Geology of the Cunningham-Garnet Area, Ontario Department of Mines, Vol. 51, Part 7, 1942. Accompanied by Map No. 51f, scale 1 inch to 1 mile.
- Donovan, J. F., 1968: Geology of Halcrow-Ridout Lakes Area, Ontario Department of Mines, Geological Report 63. Accompanied by Map 2121 - Tooms and Greenlaw Townships, District of Sudbury, scale 1 inch to ½ mile.



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Mining Lands Section

File No 2. 66 28

<u>1</u>

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL GEOLOGICAL GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

LD

Signature of Assessor

3/02/84

Date

1984 08 14

Your File: 92-84 Our File: 2.6628

Mr. Bruce Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7 Dear Sir:

RE: Notice of Intent dated July 24, 1984. Geophysical (Electromagnetic, Magnetometer and VLF) Survey on Mining Claims P 641155 et al in the Townships of Cunningham, Blamey & Greenlaw.

The assessment work credits as listed with the above mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416) 965-6918

D. Isherwood:sc

- cc: Kidd Creek Nines Limited 357 Bay Street Suite 300 Toronto, Ontario M5H 2T7
- cc: Mr. G.H. Ferguson cc: Resident Geologist Mining & Lands Commissioner Timmins, ontario Toronto, Ontario



Work Credits

Date 1984 07 24

2.6628 Mining Recorder 92.9891 of Work No.

File

Recorded Holder

Township or Area

KIDD CREEK MINES LTD

CUNNINGHAM, GREENLAW AND BLAMEY TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic	days P 641155 to 168 inclusive
Magnetometer 20 .	days
Radiometric 0	days
Induced polarization	davs
VLF 20	days
Section 77 (19) See "Mining Claims Assessed" colum	n
Geological	days
Geochemical	days
Man days 🗌 Airborne	
Special provision X Ground	
Credits have been reduced because of p coverage of claims.	artial
Credits have been reduced because of correct to work dates and figures of applicant.	tions
	•
Special credits under section 77 (16) for the follow	wing mining claims
10 DAYS CREDIT VL	<u>.F. MAGNETOMETER</u>
P 641169	
5 DAYS CREDIT VLF	- MAGNETOMETER
P 641170	
No credits have been allowed for the following min	ning claims
not sufficiently covered by the survey	Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60: 828 (83/6)



Natural Resources

Date 1984 07 24

1000

2.6628 Mining Recorder's Report of Work No. 92-84 92-84

File

Recorded Holder

KIDD CREEK MINES LTD

Township or Area CUNNINGHAM, GREENLAW, BLAMEY TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic days	P 641155 to 158 inclusive 641161 to 168 inclusive
Magnetometer days	641171 to 1/5 inclusive
Radiometric days	
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical days	
Man days 🗌 🛛 Airborne 🗖	
Special provision 🗵 Ground 🕅	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following m	sining claims
20 DAYS CREDIT ELECTR	OMAGNETIC
P 641159-160 641169	
10 DAYS CREDIT ELECTR	OMAGNETIC
P 641170	
No creats nave been allowed for the following mining of	alms

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77 (19)-60: 828 (83/6)



Ministry of Natural Resources

1984 07 24

Your File: 92-84 Our File: 2.6628

Mr. Bruce W. Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Xundt

Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

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Encls.

- cc: Kidd Creek Mines Ltd 357 Bay Street Suite 300 Toronto, Ontario M5H 2T7
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario



Ministry of Natural Resources Notice of Intent for Technical Reports

1984 07 24 2.6628/92-84

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

				•	1 	A	pn 30th
Ontario Ministry of Resources Ge	eport of Work eophysical, Geological, eochemical and Expenditures)	the Mining	92/8	Note: -	Please type If number exceeds spa Only days "Expenditu in the "E: Do not use:	or print. of mining claims ce on this form, a credits calculats res" section may spend. Days Cr." sheded areas below	traversed ttach a list. ad in the be entered columns.
GEOPHYSICAL				Township o BLAMEY	Area CL	INNINGHAM, ILAW TWPS.	
Claim Holder(s)	C I TD		· · · · · · · · · · · · · · · · · · ·		Prospector'	s Licence No.	
Address	5 LID.]]=	•1	
357 BAY ST., ST	E. 300, TORONTO, ONTAR	IO M5H	2T7	v (from & to)		otal Miles of line (
KIDD CREEK MINE	S LTD.		I 5 Dey Mo.	83 1 3 Yr. Dey N	84 ' 10. Yr.	29.0 km	
Name and Address of Author J. A. SLANKIS	(of Geo-Technical report)						
Credits Requested per Eac	h Claim in Columns at right	Mining Cl	aims Traversed	(List in numer	ical sequer	ice)	J
Special Provisions	Geophysical Days per Claim	M Prefix	ning Claim Number	Expend. Davs Cr.	Mir Prefix	Number	Expend. Davs Cr.
For first survey:	- Electromagnetic 40	P P	641155				
Enter 40 days. (This includes line cutting)	- Magnetometer 20	1	641156				
For each additional autom	- Radiometric		641157	- <u>+</u> g	ECE	IVEN	<u> </u>
using the same grid:	- Other 1/1£ 20		CA11E0		Torre P	IVED	
Enter 20 days (for each			041158			1 1004	
	Geological		641159			1 1304	ļ]
Man Dave	Geochemical	- Alternation	641160	Min	NELAN	DS SECTION	
	Geophysical Claim	- Constitution	641161				
and enter total(s) here	- Electromagnetic		641162				
	- Magnetometer		641163				
	- Radiometric		641164				
	- Other		641165				
	Geological	2000 - 2000 1970 - 2000 - 1970 1980 - 2000 - 2000	641166		el sure frances 26 June 19 June 19		
	Geochemical		641167				<u>†</u>
Airborne Credits	Days per	1999 - 1999 1999 - 1999 1999 - 1999	641160	M	HR 1	924	
Note: Special provisions	Electromagnetic		CA1160			P.M.	
credits do not apply			641169	7181911	1111211	12 014 010	
to Airborne Survey	s. Magnetometer	- -	641170			stil	
Expanditures (avaludes ps	Radiometric] :	641171			-317	ļ
Type of Work Performed	איפו זנווףאווועו	<u>ן ו</u>	641172				<u> </u>
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Performed on Claim(s)			641174				
			641175	M/	REI	2	
Calculation of Expenditure D	avs Credits					see rea	1 ALO
Total Expenditures	Total Days Credits			Receipt N	Singer and Singer	1 mayan	en
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Instructions		4			ciaims cove report of v	red by this rork.	21
Total Days Credits may be choice. Enter number of d	apportioned at the claim holder's lays credits per claim selected		For Office Use	Only	V		
in columns et right.	····	Recorded	Cr. Dete Recorde	SI OH	Minine	Tan les D	
Date FEB 24, 1984	Record Holder or Agent (Signature)] 1680	Date Approve	id as Reforted	BravihiRg	Récorder	
Certification Verifying Re	port of Work			······································			
I hereby certify that I hav or witnessed same during	e a personal and intimate knowledge and/or after its completion and the ar	of the facts set f nnexed report is	orth in the Repor true.	t of Work annex	ed hereto, h	aving performed th	ne work
Name and Postal Address of I	Person Certifying			MEU 2T7			
U. A. SLANKIS -	- 30/ DAT SI., SIL. 300	J, IUKUNIU	Date Certified	d Clark	Cettifed b	y (Sieneture)	
		·	FEB 24	-,1984 -	++1.	Hall	



Ministry of Natural Resources

Geotechnical Report Approval

File 2.4628

Mining Lands Comments			
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To: Geophysics			
Comments	······		
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Approved Wish to see again with corrections	Date	Signature	
Comments			
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	Date	Signature	
Approved Wish to see again with corrections			<u>. </u>
To: Geochemistry			
Comments		·	
L.U.			
Approved Wish to see again with corrections	Date	Signature	
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Approved Reports of Hork sent out

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Notice of Intent filed

Approval after Notice of Intent sent out

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Duplicate sent to Resident Geologist

Duplicate sent to A.F.R.D.

April 27, 1984

Bour File: 92 Our File: 2.6628

Mr. Bruce W. Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic, Magnetometer, and VLF) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 641155 et al in the Townships of Cunningham, Blamey and Greenlaw.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W8 Phone: (416)965-6918

A. Barr:mc

cc: Kidd Creek Mines Ltd 357 Bay Street Suite 300 Toronto, Ontario M5H 2T7



Ministry of Natural Resources

File_

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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 <u>Cunningham Township</u> MINING CLAIMS TRAVERSED						
Claim Holder(s) Kidd Creek Mines Ltd.	List numerically					
357 Bay St., Suite 300, Toronto M5H 2T7		-				
Survey Company Kidd Creek Mines Ltd.	P 641155					
Author of Report J. A. Slankis	P 641156					
Address of Author As above	D 641453					
Covering Dates of Survey June, 1983 - March, 1984						
km Total Miles of Line Cut 29.0	P					
	P					
SPECIAL PROVISIONS DAYS	P 641160	:				
<u>CREDITS REQUESTED</u> Geophysical per claim		;				
ENTER 40 days (includes –Electromagnetic 40		•••••				
line cutting) for first –Magnetometer 20						
survey. –Radiometric	P					
ENTER 20 days for each —Other (VLF) 20						
additional survey using Geological	b411b4	•••••				
same grid. Geochemical						
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)						
Magnetometer Electromagnetic Radiometric	D 641167					
		•••••				
DATE: March 30, 1984 SIGNATURE: Author of Report or Agent	641168	•••••				
	641169	••••				
2/2/2						
Res. Geol Qualifications &: UOU	P					
File No. Type Date Claim Holder						
	641175					
	TOTAL CLAIMS 21	_1				

GEOPHYSICAL TECHNICAL DATA

9	GROUND SURVEYS – If more than one survey, specify data for each type of survey						
N	Mag 1450, VLF - 1286, Number of Stations <u>Horizontal Loop - 788</u> <u>Number of Readings Horizontal Loop - 1576</u>						
S	tation interval Mag. & VLF: 20 m, HL: 40 & 20 m Line spacing 100 metres						
P	rofile scale VLF: 1 cm = 10° , HL: 1 cm = 10%						
C	Contour interval 200 nanotes las						
MAGNETIC	InstrumentEDA Instruments Inc., PPM-350, proton precession, total field Accuracy - Scale constant _ ±1 nanotesla Diurnal correction method _EDA PPM-400, base station memory magnetometer Base Station check-in interval (hours) Base Station location and value _Atnorth end of Punning Ghost Lake, 0.5 km north of grid.						
AGNETIC	Instrument <u>Apex Parametrics, Max Min II</u> Coil configuration <u>Horizontal Loop</u> Coil separation <u>80 metres</u>						
M	Accuracy						
IR	Method: 🗆 Fixed transmitter 🗆 Shoot back 🛛 In line 🔅 Parallel line						
S	Frequency 444 Hz and 1777 Hz						
EI	(specify V.L.F. station) Parameters measured <u>In-phase and quadrature components of secondary field as percent of</u> transmitted field.						
	Instrument						
	Scale constant						
Y	Corrections made						
AV							
S	Base station value and location						
	Elevation accuracy						
	Instrument						
1	Method Time Domain						
	Parameters - On time Frequency						
2	- Off time Range						
H	- Delay time						
	- Integration time						
SIS							
R	Flectrode array						
	Electrode spacing						
I	Type of electrode						

from a loss of a



SELF POTENTIAL

Instrument	. Range
Survey Method	

Corrections made_____

RADIOMETRIC

Instrument			<u></u>
Values measured.			
Energy windows ((levels)		
Height of instrum	ent	Background Count	
Size of detector_	······································		
Overburden	(type, depth — include	e outcrop map)	<u></u>
OTHERS (SEISM	AIC, DRILL WELL LOGGING ETC.)		
Type of survey	VLF		
Instrument	Crone Geophysics Ltd., RADEM		
Accuracy	±1%		
Parameters measu	ured <u>Dip angle of total field</u>		<u></u>

Additional information (for understanding results) The signal from the VLF transmitter at Cutler, Maine (NAA, 17.8 kHz) was used.

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 method	l
Aircraft altitude	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		T. METHOD	S
Type of Sample(Nature of Material) Average Sample Weight		per cent p. p. m.	
Method of Collection		p. p. b.	
	Cu, Pb, Zn, Ni, Co,	Ag, Mo,	As,-(circle)
Soil Horizon Sampled	Others		
Horizon Development	Field Analysis (tests)
Sample Depth	Extraction Method		
Terrain	Analytical Method		
	Reagents Used		
Drainage Development	Field Laboratory Analysis		
Estimated Range of Overburden Thickness	No. (tests)
	Extraction Method		·
	Analytical Method		· · · · · · · · · · · · · · · · · · ·
	Reagents Used		
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (_		tests)
Mesh size of fraction used for analysis	Name of Laboratory		
	Extraction Method		
	Analytical Method		
	Reagents Used		<u>_</u>
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