

41010NW0055 2.5569 TOOMS

KIDD CREEK MINES LTD.

REPORT ON GEOPHYSICAL WORK

TOOMS TOWNSHIP

SWAYZE BELT PROJECT

RECEIVED

MAY 2 : 1983

MINING LANDS SECTION

MAY, 1983

M.W. ZANG

SUMMARY AND RECOMMENDATIONS

A single highly conductive zone was detected by a horizontal loop survey carried out on a group of four claims in Tooms Township. A coincident magnetic survey carried out in March 1983 gave good correlating anomalies over most of the conductor.

Geological mapping and a V.L.F. survey is planned for the summer of 1983 over the claim group. Plans for further geophysical surveys will be based on the results of the summer program.



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INTRODUCTION

In March of 1983 a geophysical program consisting of proton precession magnetometer and horizontal loop electromagnetic surveys was carried out on four contiguous claims in Tooms Township. The claims, P 636233 to P 636236 inclusive are located in the west central part of the township located 140 kilometres southwest of Timmins.

Access to the property was attained by helicopter from Timmins.

There has been no previous work recorded on this property but the ground was staked in 1978.

People involved in the field work include R. Majcher, M. Mageau and D. Londry.

SURVEY DESCRIPTION

The base line of the property runs north-south with crosslines cut at 100 metre intervals and stations established every 20 metres.

Magnetic readings were taken with a Geometrics G816 proton precession magnetometer. This instrument measures the earth's total magnetic field to an accuracy of ±1 gamma.

Base stations were established by looping at all the cross lines on base line 0. All other readings were tied into these stations. A total of 419 stations were sampled along 7.21 kilometres of line.

The horizontal loop survey was carried out with an Apex Parametrics MaxMin II using a coil separation of 120 metres. Readings were taken every 40 metres, 20 metres over anomalous areas at frequencies of 444 and 1777 Hz. A total of 265 stations were sampled along 6.12 kilometres of line.

SURVEY RESULTS

The horizontal loop survey outlined a single, highly conductive zone labelled anomaly 'A'. The interpretation of this anomaly at the two survey frequencies is given in Tables 1 and 2.

The anomaly found on Line 100 South through to Line 600 South represents a strong, deeply buried bedrock conductor. The responses on Lines 100, 200 and 300 South are coincident with the north flank of a 500 gamma magnetic high that trends east southeast. On Line 400 South the anomaly is found in a 200 gamma magnetic low whereupon it trends east northeast through a 2000 gamma mag high and ends in a slight magnetic low. The HEM anomaly coincident with this magnetic high on Line 500 South indicates a conductive source at a depth of 70 metres from surface.

Michael W. Zang

MWZ/mg

	1	1						
Remarks	Conductivity Thickness	Response Porometer	Q O Max	9 .I .xoM	Indicated Depth	ylomon A AtbiW	Anomaly Center	⊕uid
Marginal Response Marginal Response	ИС	ИС	ИС	ис	ИС	пidT	N 0S+0	SOOT
Marginal Response North Flank of 600 gamma Mag High	ИС	ИС	ИС	ON.	ИС	пілт	№ 90+0	S00Z
Assume Dip 60 ⁰ West North Flank of 600 gamma Mag High	soum 02	35	9-	۷۲-	шО₽	итит	S 07+0	300E
Assume Dip 90°. 200 gamma mag low.	sodm 02	98	۷-	L T-	шО₽	итчт	S 9E+0	S00†
Assume Dip 90 ^O Just North of a single station 2000 gamma anomaly	вочш 6	SΤ	7-	₽∺	m07	пілт	N 9Z+0	S00S
Assume Dip 90°. Slight magnetic low.	soųw 0z	32	9-	۷ ۲-	ш0 ₽	ш₽Т	N \$6+0	5009
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Table 2: Anomaly 'A' March 1983 HEM Anomalies Tooms 41, 444 Hz, 120m spacing.

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Assume Dip 90 ⁰ In a slight magnetic low.	sodm 82	75	۲-	6-	™0 ⊆	шъ	N 06+0	S009
Just North of a 2000 gamma single ' station anomaly.								
O ₀ odin Saume Dip	sodm 21	S	7-	7-	m0Γ	підТ	И ≥8+0	S00S
Assume Dip 90° 200 gamma mag low.	soyw 0ç	20	9-	₽ T−	шS I ⁄	ијуц	S 9E+0	S007
Assume Dip 60 ⁰ West on North Flank of a 600 gamma mag anomaly	войт ОГ	9.6	Þ	οτ-	ш0 С	пілТ	S 07+0	3008
Ветагкя	Conductivity Thickness	Response Parameter	9 O XDM	q , I .xoM	Indicated AtgsQ	viomon A AtbiW	Anomaly Center	9 ∪!]

Kidd Creek Mines Ltd.

Box 1140 571 Moneta Avenue, Timmins, Ontario P4N 7H9 (705) 267-1188



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Exploration Division

May 19, 1983

Mr. E.F. Anderson Director, Land Management Branch Whitney Block, Room 6450 Queen's Park TORONTO, Ontario M7A 1W3 RECEIVED

May 24 1981

MINING LANDS SECTION

Dear Sir:

Encls.

Re: Tooms Township Assessment Report

Enclosed please find duplicate copies of a report and maps covering claims in Tooms Township. The claims aforementioned are P-636233, P-636234, P-636235 and P-636236.

Your prompt attention to this matter would be greatly appreciated.

Yours very truly,

Mike ZANG MIKE ZANG



1983 06 01

Mr. William L. Good 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 and Magnetometer) survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims P 636233 et al in the Township of Tooms.

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

Yours very truly,

E. F. Anderson
Director
Land Management Branch
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3

Phone: (416) 965-1380

A. Barr:md

cc: Kidd Creek Mines Ltd.
571 Moneta Avenue
P.O. Box 1140
Timmins, Ontario
P4N 7H9 Attention: Mr. M. Zang.

Ministry of Natural Resources

Certification Verifying Report of Work

or witnessed same during and/or after its completion and the annexed report is true.

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

2.5569	Instructions:
#78 1	Note:
The Mining Act 1-/-	36233

Please type or print.

If number of mining claims traversed exceeds space on this form, attach a list. Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

			The Mining	1 Act 1-636	233 _		opend. Days Cr haded areas belo	
Type of Survey(s)					Township o		4.1	
Geophy	sical	W·	83-06.	78			OOMS	· · · · · · · · · · · · · · · · · · ·
Claim Holder(s) Kidd C	reek Mines Ltd.						-1	
Address						<u> </u>		
571 Mo	neta Ave., P.O.	Box 1	.140, Tim	•		<u> </u>		
Survey Company Vidd C	reek Mines Ltd.	:		Date of Surve		1	otal Miles of line	
Name and Address of Author (o		·		Q1 _{v 1} 27	82 23	1991 AGO	9.6 kilom	ie cres
	Box 1140, 571	Moneta	Ave., T	immins, Ont	ario P4	N 7H9		
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For first survey:	- Electromagnetic	20	Р	636233				
Enter 40 days. (This includes line cutting)	- Magnetometer	40		636234				
	- Radiometric			636235				`
For each additional survey: using the same grid;						11275		
Enter 20 days (for each)	- Other		4	636236		7,72		
	Geological							
	Geochemical							
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•	- Radiometric						CEIVI	
	- Other			14		ياد ا کا	к 1 1 1983	i
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	Geochemical			ī		MINING	LANDS SE	CTION
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to Airborne Surveys.	Magnetometer	_					· · · · · ·	
·	Radiometric							
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Type of Work Faironned						MAD	4 1983	
Performed on Claim(s)	······································				1 1		1.72.1300	
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						SAX		
Calculation of Expenditure Days	Credits	Total				134.24		
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\$	_						ber of mining	4
Instructions			,		•	report of w	ered by this vork.	~† ·
Total Days Credits may bé ap choice, Enter number of days				For Office Use		1		
in columns at right,			Total Day Recorded	S Cr. Date Recorde	160	Mining Flac	ordo	
Date / Rec	grded Holder or Agent (S	Signature)	1 2.10	Date Approve	d/as Recorded	Branst	for	\mathcal{L}
Toward 23 /23 /	Ticista		240	83.0	14.84	Redicto	AHRING Record	

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work

8	Ministry of Natural Resources
Ontario	

Geotechnical Report Approval

File			
2	SS	4	9

June 13/83 Mining Lands Comments Mr. Borlow. To: Geophysics Comments Approved Wish to see again with corrections To: Geology - Expenditures Comments Signature Approved Wish to see again with corrections To: Geochemistry Comments Signature Approved Wish to see again with corrections

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

Ontario

Ministry of Natural Resources

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.

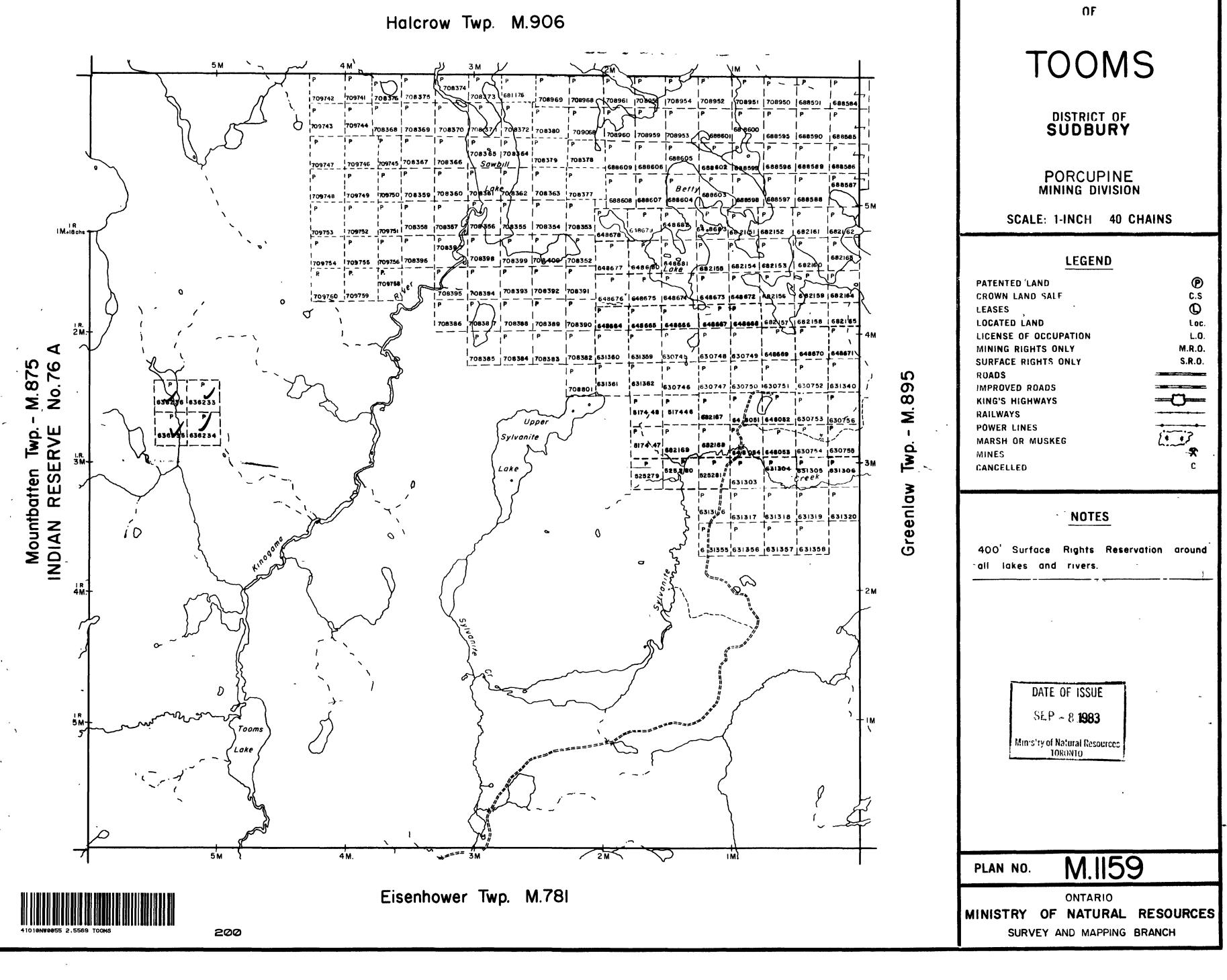
Type of Sur	vey(s)GI	EOPHYSIC	AL		
Township o	r Area	rooms		MINING	CLAIMS TRAVERSED
Claim Holde	er(s)KII	DD CREEK	MINES LTD.		List numerically
			Avenue, Box 1140, Timmin		
Survey Com	npany	tario	Kidd Creek Mines Ltd.	P	636233
Author of F	Report	Michael	W. Zang	(prefi P	x) (number) 636234
Address of A	Author	Same as	above		
Covering Da	ates of Surv	_{ey} July	19/82 - March 15/83	P	636235
Total Miles		_	(linecutting to office)	Р	636236
		· ·			
	PROVISION REQUES		DAYS per claim		
- '' 	~~		Geophysical 20		
ENTER 4	0 days (inc	cludes	-Electromagnetic 20		
1	ng) for first		-Magnetometer 40		
survey.			-Radiometric		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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		(enter o	neticRadiometriclays per claim)		
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File No.	турс	Date	Claim Holder		
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GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

N	Sumber of Stations Mag: 419 HL: 265 Number of Readings Mag: 419 HL: 530
S	tation interval Mag: 20m HL: 40m Line spacing 100m
P	rofile scale 1 cm = 10%
C	ontour interval 100 gammas
	Instrument Geometrics G816 Proton Precession Magnetometer
MAGNETIC	Accuracy – Scale constant + 1 gamma
S	Diurnal correction method Closed Loop
₩ W	Base Station check-in interval (hours) Approximately 1/2 hour
-	Base Station location and value Intersection of grid lines and base line.
OI	Instrument Apex Parametrics MaxMin II
ELECTROMAGNETIC	Coil configuration Horizontal Loop
S	Coil separation 120m
MA MA	Accuracy ±18
IR	Method:
EC	Frequency 1777 Hz, 444 Hz.
回	(specify V.L.F. station) Parameters measured Percent of Primary Field.
	Parameters measured 10100110 Of 111111111111111111111111111
	Instrument
> -	Scale constant
RAVITY	Corrections made
<u></u>	Base station value and location
	Elevation accuracy
	Instrument
O	Method
ATI	Parameters - On time Frequency
T K	- Off time Range
EED POLARIZ RESISTIVITY	Delay time 2:30
	- Integration time
RED RED	Power
INDUCED POLARIZATION RESISTIVITY	Electrode array
Z.	Electrode spacing
	Type of electrode

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