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KIDD CREEK MINES LTD.

REPORT ON GEOPHYSICAL WORK

YEO TOWNSHIP

SWAYZE BELT PROJECT

RECEIVED

MAY 2 6 1983

MINING LANDS SECTION

M.W. ZANG

MAY, 1983

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SUMMARY AND RECOMMENDATIONS

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Geophysical surveys consisting of proton precession magnetometer, horizontal loop electromagnetic and VLF electromagnetic traverses were conducted over a group of 4 contiguous claims in Yeo Township. A single, highly conductive, nonmagnetic zone was detected in the June 1982 survey.

No further geophysical surveys are planned for this claim group.



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TABLE OF CONTENTS

	page
SUMMARY AND RECOMMENDATIONS	i
INTRODUCTION	1
SURVEY DESCRIPTION	1
SURVEY RESULTS	2

INTRODUCTION

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In June of 1982 a geophysical program consisting of proton precession magnetometer and horizontal loop electromagnetic surveys was carried out on four contiguous claims in Yeo Township. The claims P634424, P634425, P641536 and P641537 are located in the east central part of the township located 115 kilometres south southwest of Timmins.

Access to the property was attained by truck from the Eddy forest road to Sultan west of Highway 144.

People involved in the field work include R. Majcher, R. Daigle and S. Ryan.

There has been no previous work recorded on this property.

SURVEY DESCRIPTION

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

Magnetic readings were taken with a Geometrics G-816 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 536 stations were sampled along 7.2 kilometres of line.

The horizontal loop survey was carried out with an Apex Parametrics MaxMin II using a coil separation of 160 metres. Readings were taken every 20 metres at frequencies of 444 and 1777 Hz. A total of 282 stations were sampled along 5.76 kilometres of line.

VLF readings were taken with a Crone RADEM EM receiver. This instrument measures the dip angle of the magnetic field component in degrees with an accuracy of $\pm 1/2$ degree. The transmitting station used in this survey was Cutler, Maine which employs a frequency of 17.8 kHz. In this survey a total of 365 readings were taken along 7.2 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 Table 1. The anomaly found on Line 800 East at 0+50 North represents a deeply buried bedrock conductor. The VLF results gave a coincident anomaly at this location but there

is no correlating magnetic anomaly. Both electromagnetic surveys indicate that the conductor does not continue to the west.

The VLF survey results gave numerous weak anomalies, many of which are due to outcrop in contact with conductive overburden. The VLF anomaly found on Line 0 through to Line 600 East between 0 and 2+00 North indicates a geologic contact. A parallel anomaly to the north also represents a geologic contact.

The numerous erratic magnetic highs found throughout the property are found coincident to diabase outcrops. Geologic mapping has indicated that four north-south trending diabase dikes are found on the property. These highly magnetic units are probably the cause of the erratic responses recorded in the magnetic survey.

Michael W. Zang

Ani an	Table 1: Anomaly 'A' June 1982 HEM Anomalies YEO 34, 1777 Hz & 444 Hz, 160m separation							
Line	Anomaly Center	Anomaly Width	Indicated Depth	I.P Max.	O. P Max.	Response Parameter	Conductivity Thickness	Remarks
800 E	0+48 N	6m	92m	-6	-2	45	20 mhos	<u>1777 Hz</u> Assume Dip 90 ⁰ No mag correlation
800 E	0+50 N	2m	96m	-4	-2	25	45 mhos	<u>444 Hz</u> Assume Dip 90 ⁰

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Type of Survey(s)			The Mi					
GEOPHYSICAL	(EM & MAG)		4	009SE0057 2.55			III	
Claim Holder(s) KIDD CREEK	MINES LTD.			2.00		ŀ	9	00
Address 571 MONETA	AVENUE, P.O.	BOX 1	140, TI	MMINS, ON	TARIO		P4N 7H9	
Survey Company				Date of Survey	(from & to) 82 30	03 83	Total Miles of line	Cut
KIDD CREEK			· · · · · · · · · · · · · · · · · · ·		Yr. Day	Mo, Yr.	5	
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to Airborne Surveys.	Magnetometer							
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I hereby certify that I have or witnessed same during an	nd/or after its completion				of Work anne	xed hereto, h	naving performed	the work
Name and Postal Address of Pe							<u> </u>	
Will Gasteiger	. P.O. Box 1	140, 5	71 Monet	a Avenue	<u>, Timmi</u>	ns, On	tario	
				Mar. 30		Mill	y (Signature)	

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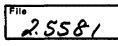
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Ontario	Ministry of Natural Resources
Ontario	

June 30/83



Ministryof Natural Resources	Geotechnical Report Approval	June 30/1	3 2.5581
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I	(e) No carrier is liable for loss, damage or delay to any goods carried or goods and the estimated amount claimed in respect of such loss, day	nage or delay is given in whiling	to the originating carrier or the deliv	If the origin, destination vering carrier within sixty	and date of shipment of (60) days after the deliv	the 🔺	Envel	DDe			ADVANCE CHAP
	of the poods, or, in the case of fairing to make delivery, within this (b) The final statement of the claim nust be litted within une (9) non Maximum liability of two dollars per pound, (or \$4.41 per kilogram: un B, NOTE CAREFULLY CONDITIONS ON BACK HERE ACCEPTED.	this from the date of shipment ess declared valuation states	together with a copy of the paid fro otherwise or as provided by special	agréement in Condition			£	}			EXCESS VALUE
22	(a) Le transporteur n'est respoe l'origine des marchandisero transporteur initial ou au tra	tion et le montant approximati	portées qui sont décrites au connais if réclamé en réparation de la pert	e, des dommages ou de	retard ne soit signifié	au	SPECIAL AGREEMENT/DISP CONDITION 2		TOTAL WER POIDS TOT		FRAIS SUPPLÉMENT
×	mois suivant la date de l'explorition (b) La présentation de la réclamation finale accompagnée d'une preuv l'expédition			· · · ·	••	RECUEN BO	N GOOD ORDER EXCEPT ON ÉTAT APPARENT SAU S.	AS NOTED. F MENTIONS	DATE		TOTAL CHARGE TOTAUX
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#89 P634424

1983 06 02

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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 P534424 et al in the Township of Yeo.

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 Yoronto, Ontario M7A 1W3 Phone: 416/965-1380

A.Barr: eib

cc: Kidd Creek Mines Ltd. 571 Moneta Avenue P.O. Box 1140 Tinmins, Ontario P4N 7H9

Att: Mike Zang



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)	DPHYSICAL			· · · · · · · · · · · · · · · · · · ·
Township of Alca) TOWNSHIP		- MINING (CLAIMS TRAVERSED
	Creek Mines			ist numerically
571 M Timmi Survey Company_Kidd	Aoneta Avenue Ins, Ontario Creek Mines	e, P.O. Box 1140	- P	634424
Author of Report Micha			(prefix)	(number) 634425
Address of Author Same			— P	634425
Covering Dates of Survey_	May 27/82	- June 2/82	P	641536
Total Miles of Line Cut	(linecutti	ng to office)		641537
SPECIAL PROVISIONS CREDITS REQUESTED ENTER 40 days (includ	D Geopl Elec	DAYS per claim stromagnetic <u>40</u> netometer <u>40</u>		
line cutting) for first	6	iometric		
survey. ENTER 20 days for eac additional survey using	h —Oth	er		
same grid.		nemical		
AIRBORNE CREDITS (S)	pecial provision credits d	lo not apply to airborne surveys)		
MagnetometerEle		Radiometric		
DATE:May 24/83	_ SIGNATURE: 2	Milas W. 3 ~ Author of Report or Sent	2	
Res. Geol.	Qualifications_	2. 4262		
Previous Surveys	Data	Cloim Holdon		
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OFFICE USE ONLY

Numbers of claims from which samples taken_____

Total Number of Samples	ANALYTICAL METHO	<u>DDS</u>
Type of Sample(Nature of Material) Average Sample Weight	p. p. m. p. p. b.	
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag, M	lo, 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	

SAMPLE PREPARATION (Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis	Commercial Laboratory (Name of Laboratory Extraction Method Analytical Method Reagents Used	
General	General	

ANALYTICAL METHODS

Analytical Method _____

Reagents Used _____



Kidd Creek Mines Ltd.

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

Exploration Division

May 24, 1983

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

Dear Mr. Anderson:

Re: Yeo Township - Yeo 34 Property

Enclosed please find duplicate copies of a report and maps covering claims in Yeo Township.

Your prompt attention to this matter would be greatly appreciated.

Yours truly,

Michael W. 3-5

MWZ/pp Encls.

RECEIVED

1,1AY 2 6 1983

MINING LANDS SECTION



