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SELCO MINING CORPO

REPORT OF THE MAGNETOMETER SURVEY MACGREGOR OPTION, SKEAD TWP., ONTARIO

INTRODUCTION

A programme of magnetic surveying was carried out from October 24 to November 30, 1972 on the MacGregor Option claims in Skead Township. The claims are found on claim map M387 in the Larder Lake Mining Division, District of Timiskaming, Ontario. The claims covered by this survey area:

> L270383, L282843, L282852-54, L314843, L317973-78, L319208,09, L319212-13, L319215, L319217, L319282, L319821, L321180.

and

L282842, L282844-51, L319214, L319216, L319286-90, L321178-79, L321181, L341842, L370229, L370373.

The grid consists of lines which were cut, chained and picketed every 100 feet. Lines are generally in a north-south direction. The interval between lines varies and is either 200, 300 or 400 feet. Most lines, however, are on a 400 foot interval. East-west tie lines have been cut on approximately 1,500 foot separations. In all, <u>55.7 line mi</u>les of lines were cut on this grid.

GENERAL

The magnetic survey was carried out using a <u>Scintrex MF1</u> fluxgate magnetometer. This magnetometer detects the vertical component of the earth's magnetic field to an accuracy of 10 gammas. Diurnal variations were controlled using the looping around technique using base stations on the baselines and tie lines as control. In this procedure the operator describes a loop in effect by starting on a line at the baseline, taking readings along that line to the end, crossing to the next line, reading along that line to the opposite end, returning to the first line and reading back to the baseline. Corrections are made in time on the intervening data on any changes occurring at the baseline reading. The operator then proceeds directly to the next line and repeats the procedure.

All magnetic readings were taken on a 50 foot interval. Both north-south lines and east-west base and tie lines were surveyed for a total production of 55.7 line miles.

DETAIL

A large broad magnetic high strikes across this area in a west-northwest direction. While individual readings may exceed 15,000 gammas the feature is seen to be defined by the readings between 1,000 and 5,000 or 6,000 gammas. This magnetic high defines a large ultrabasic body seen on geologic mapping in this area. The body is seen in the magnetics to extend across the two southerly sheets. On the southeast sheet the body presents an irregular pattern of magnetization suggesting the body is broken or contorted by folding. On the southwest sheet the magnetic trends become more uniform and linear.

Away from the large magnetic body, particularly on the northwest sheet, the magnetics become fairly flat showing the ultrabasic rocks to be confined to one major fault.

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CONCLUSIONS

The magnetometer survey has outlined a portion of an ultrabasic body extending in a west-northwest direction through these claims.

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Laurie E. Reed, P.Eng., Chief Geophysicist.



December 18, 1972 LER/eip.



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TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT

GEOPHY

OFFICE USE ONLY

RECEIVED

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TECHNICAL REPORT MUST CONTAIN IN	TERPRETATION, CONCLUSIONS ETC. PROJECTS
Type of Survey <u>Magnetometer</u>	ى بىلى بىلى ئېچىنى ئىلى ئېچىنى ئىلى ئېچىنى ئېچى بىلى ئېچىنى ئ
Township or Area Skead Township	
Claim holder(s) R.A. MacGregor	MINING CLAIMS TRAVERSED
134 Palace Dr., Sault Ste.	Marie, Ont.
Author of Report L.E. Reed	
Address 55 Yonge St. 6th Floor, Toront	<u>o, Ont.</u> (prefix) (number)
Covering Dates of Survey Oct. 15 to Dec. 20/	72L282843
(linecutting to office)	282852 Covered
10tal Miles of Line Cut	> ~ ~ ~ ~ ~ ~ ~ //1
CREDITS REQUESTED	DAYS per claim
Geophysical	
ENTER 40 days (includesElectromagnetic	
line cutting) for first —Magnetometer	40 I
survey. –Radiometric	L 317974
ENTER 20 days for each -Other	
additional survey using Geological	
Geochemical	L
AIRBORNE CREDITS (Special provision credits do not apply to air	rborne surveys)
Magnetometer Electromagnetic Radiome	etric //,
(enter days per claim)	L 317978 /4
DATE: Dec. 21/72 SIGNATURE: Jame	<u>L 319208</u>
Author of F	
PROJECTS SECTION	аланан алан алан алан алан алан алан ал
Res. Geol Qualifications _ &	. <u>62</u> L 319212
Previous Surveys 63, 1370 (ar) 1. D	L 319213
<u></u>	
Checked bydate	L 319215
	L 319217
GEOLOGICAL BRANCH	319282
 Alternative statement 	
Approved bydate	L <u>31987</u> 1
	L 321180
GEOLOGICAL BRANCH	
Annroved by date	TOTAL CLAIMS

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS	
Number of Stations	Number of Readings
Station interval <u>50 feet</u>	
Line spacing 200,300 and 400 ft.	가 있는 것이 가지 않는 것이 있는 것이 있다. 또한 가지 않는 것이 있는 것이 있다. 같은 것이 같은 것이 있는 것
Profile scale or Contour intervals 1000 gamma	8
(specify fo	Sr cach type of survey)
MAGNETIC	(a) A set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the se
Instrument Scintrex MF1	
Accuracy - Scale constant 10 gammas	
Diurnal correction method Variations in	base readings corrected for drift in time
Base station location Series of bases on	base and tie lines are tied together
during survey	
ELECTROMAGNETIC	
Instrument	
Coil configuration	
Coil separation	
Accuracy	
Method: 🖸 Fixed transmitter	□ Shoot back □ In line □ Parallel line
Frequency	/marks VI T D addam)
Parameters measured	(specify v.L.F. station)
GRAVITY	
Instrument	
Scale constant	
Corrections made	
Base station value and location	
Elevation accuracy	
INDUCED POLARIZATION RESISTIVITY	
Instrument	
Time domain	Frequency domain
Frequency	Range
Power	
Electrode array	
Electrode spacing	
Type of electrode	
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Hearst Twp. M.354 ω ω PI SRO SRO 25985 41586 342706 342705 6207 7115 6741 6743 6606 25705 27663 27664 L DIL D L D L D SRO 1 SRO 5RO 1 SRO 25708 25707 5963 5962 341585 341584 342707 342708 342709 \$41830 6208 8284 8 L DIL D SRO. I SRO 3534 341834 341835 341831 341614 342711 342710 341836 342349 5932 25706 42346 -.--(34161) 341833 O 342860 5 A (4 4 25 3416 07 341606 540 (P) 319216 8480 341612 1342348 2347 4:55 319214 Ø 5368 341608 1341581 41787 341588 Ŧ 272385 517977 319212 282843 321180 F Di L. C M.336 321178 9706/ 69707 7873 11821 1944 317973 317976 521181 7871 7864 8623 238 463 341842 Ø Twp. 15 0 8+ Ω 1 24.4 28.4 28.4 28.4 28.4 à 10 C Catharine 600 1 **QÚ** T 🕑 PSROP F A O 10830 1 190 10831 500P 14 MA WA in ser E Sa Miron Montague Loke Loke 9 7 8 5 6 Ń 2 3 4 $z_{i}(\vec{k})$ W.38 M.323 Bayly Twp.



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