

2004SE0325 2.2791 RATTRAY

R. A. MACGREGOR, P.ENG.



#### Report on Magnetometer . Hearst, Skead and Rattray Townships, Ontario

#### Introduction

Linecutting, followed by Magnetometer and VLF-EM surveys were carried out on three seperate grids in Hearst, Skead and Rattray townships. The results are shown on the plans in the back pocket.

#### Location, Access and Ownership

The claims covered by the surveys are located in the south west corner of Hearst township, lost 1 concession 6 Skead Township, along the north end of the Skead-Rattray townships boundary and in the northwest part of Rattray township. The claims are numbered L 442070-442074 recorded in the name of R.A. MacGregor, 134 Palace Drive, Sault Ste. Marie, Ontario and L 476695, 476697, 476699, 476702-476704, 476706-476710 and 491641 recorded in the name of L. Lacasse Larder Lake, Ont.

Access is by old logging roads which lead from highway 624 about 8 miles south of Larder Lake, Ontario.

#### **Previous** Exploration

Previous work has consisted of some pits, trenches and stripping for which no records could be found.

#### Geology

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The property is underlain by a volcanic sequence of rocks, mostly mafic volcanics with narrow felsic volcanic bands. The geology of Rattray township is not well known, and will be mapped in more detail when the snow is off the ground.

#### Survey Procedure

Base lines were cut east-west along the Hearst-Skead boundary' at N  $30^{\circ}$  W in the Skead-Rattray boundary area and north-south on the Rattray township group. Cross lines were run at 400 foot intervals normal to the base lines. All lines were chained and picketed at 100 foot intervals.

Magnetometer readings were taken with a Sharpe MF-1 fluxgate magnetometer at 50 foot intervals. The looping method was used for control of diurinal variation. In this method a base station is selected and readings taken along lines describing a loop, arriving back at the starting base station in less than two hours. A second loop is then started using either the same base station or another which is tied to the previous loop. Readings are then corrected for diurinal variation by assuming the time between readings is the same and distributing any variation equally among the intervening readings. No correction was applied less than the accuracy of the base station reading.

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VLF-EM survey was carried out using a Crone Radem instrument set to the signal from Cutler, Maine (17.8 KH ). Readings were taken at 100 foot intervals using the procedure outlined in Appendix I. The looping method was used for control of variation, the same as described for the magnetometer survey excepting that the time was noted for each station.

#### Results and Conclusions

#### Magnetometer

Grid 1 shows a band of high magnetics in the north east corner. This is possibly a band of ultramafics similar to that found on the claims to the south.

Grid 2 has relatively flat magnetic profile except at 5+50 S to 7+00 S on the baseline where there is a strong negative magnetic anomaly. The cause is not known.

Grid 3 also has relatively flat magnetics except at 3+00W on line 12 N and 1+00W on 8N where there is a narrow strong magnetic anomaly with an adjacent magnetic negative anomaly on 8N. This anomaly could be caused by pyrrhotite.

#### VLF-EM

On Grid 1 there are a number of cross-overs. The most interesting is on line 32E near the north end. It approximately coincides with a band of high magnetics.

Grid 3 shows a strong cross-over on line 12N coinciding with a narrow magnetic high. Sulphides are the suspected cause.

Respectfully submitted A. MacGregor, P.Eng. R'.

Feb. 18, 1977

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GEOPHYSICAL – GEOLOGK TECHNICAL DATA



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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)	Magnetometer	
Township or Area	Skead & Rattray	MINING CLAIMS TRAVERSED
Claim Holder(s)	L, Lacasse	List numerically
Township or Area Claim Holder(s) Survey Company Author of Report Address of Author Covering Dates of Survey Total Miles of Line Cut <u>SPECIAL PROVISION</u> <u>CREDITS REQUESTE</u> ENTER 40 days (inclue line cutting) for first survey. ENTER 20 days for eac additional survey using same grid. <u>AIRBORNE CREDITS</u> (S MagnetometerEl	Skead & Rattray   L, Lacasse   R.A. MacGregor   134 Palace Dr. SAULT STE. MARIE, Ont   Jan - Feb. 1977   (linecutting to office)   3.4   S   D   Geophysical   -Electromagnetic   des   -Magnetometer   20   -Radiometric   ch   Other   Geological   Geochemical   Special provision credits do not apply to airborne surveys)   ectromagnetic   (enter days per claim)   78 SIGNATURE:	MINING CLAIMS TRAVERSED List numerically L 476697 $\frac{4}{3}$ AS COUCH (prefix) $\frac{2}{3}$ (number) L 476699 $\frac{2}{3}$ L 476702 $\frac{3}{4}$ L 476702 $\frac{3}{4}$ L 476705 $\frac{3}{4}$ L 476705 $\frac{3}{4}$ L 476705 $\frac{3}{4}$ L 476705 $\frac{3}{4}$ L 476705 $\frac{3}{4}$ L 476709 $\frac{3}{4}$ L 491641 $\frac{3}{4}$ D X 8 = 160 - (8+4)= B 20 X 8 = 160 - (8+4)=
Res. Geol. <u>Previous Surveys</u> File No. Type	Qualifications <u>2.1102</u> A on this file Date Claim Holder	Circle Oming clam. not covered /No Cred t
		TOTAL CLAIMS

### **GEOPHYSICAL TECHNICAL DATA**

<u>GROUND SURVEYS</u> – If more than one survey, specify data for each type of survey



	Number of Stations	195 Mag.	Number of	Readings 195 Mag.			
	Station interval	100'	Line spacing	g400'			
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MAGNETIC	Contour interval	1000 gammas			<u> </u>		
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	Instrument	Sharpe MF-1		"			
	Accuracy – Scale constant 20 gammas on lowest scale						
	Diurnal correction method <u>looping method</u>						
	Base Station check-in interval (hours)two hours or less						
	Base Station location and value						
<b>MAGNETIC</b>					·		
	Instrument						
	Coil configuration.						
	Coil separation				·····		
	Accuracy	, 		· · ·	· · · · · · · · · · · · · · · · · · ·		
TR(	Method:	Fixed transmitter	Shoot back	🗆 In line	🗖 Parallel line		
CEC	Frequency	·					
EI	Demonstrate in colours	۲	(specify V.L.F. station)				
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VF	Corrections made_			· · · · · · · · · · · · · · · · · · ·			
<b>SRA</b>	, .						
	Base station value a	nd location					
INDUCED POLARIZATION RESISTIVITY	Elevation accuracy.	an a	<u></u>		· · · · · · · · · · · · · · · · · · ·		
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	Type of electrode _						



## NOTES

400' surface rights reservation along the shores of all lakes and rivers.

All unpatented mining claims accepted subject to survey, Section 118 of the Mining Act (R.S. 0. 1970).

SAND and GRAVEL

No. 1230

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# INSTRUMENT: SHARPE MF-L





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