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Report on VLF-EM and Ma Claim TB283388 Syine (Ontario



Introduction

Linecutting, followed by magnetometer and VLF-EM Surveys were carried out in July and September 1974.

Location, Access and Ownership

The claim is located in the north-west part of Syine township (formerly 82) District of Thunder Bay, Ontario. It is recorded in the name of R.A. MacGregor, 134 Palace Drive, Sault Ste. Marie, Ontario. The claim can be reached by a trail about ½ mile in length from Highway 17 about 8 miles east of Terrace Bay, Ontario.

Previous Exploration

Work consisting of one long and one short adit, with considerable trenching and some mining was reportedly carried out from 1896-1900. Some stripping was done in the 1930's. Most of the old workings are badly overgrown but the adit may still be seen. No recent work is known to have been carried out.

Geology

The property is underlain by hornblende schist and gneiss. The topography is very steep with an estimated difference in elevation from No. 2 post (the lowest) to No. 4 post (the highest) of 450 to 500 feet.

Survey Procedure

A base line was laid out in an east-west direction along the north boundary of the claim. Cross lines were run south at 400 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 than 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.

A VLF-EM survey was carried out using a Crone Radem instrument set to the signal from Cutler, Maine (17.8 KH_z) 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.

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Pesults and Conclusions

The magnetic survey shows the trend of the formation E.N.E.-W.S.W. Some higher readings along the base line and 12W may be due to basic dykes.

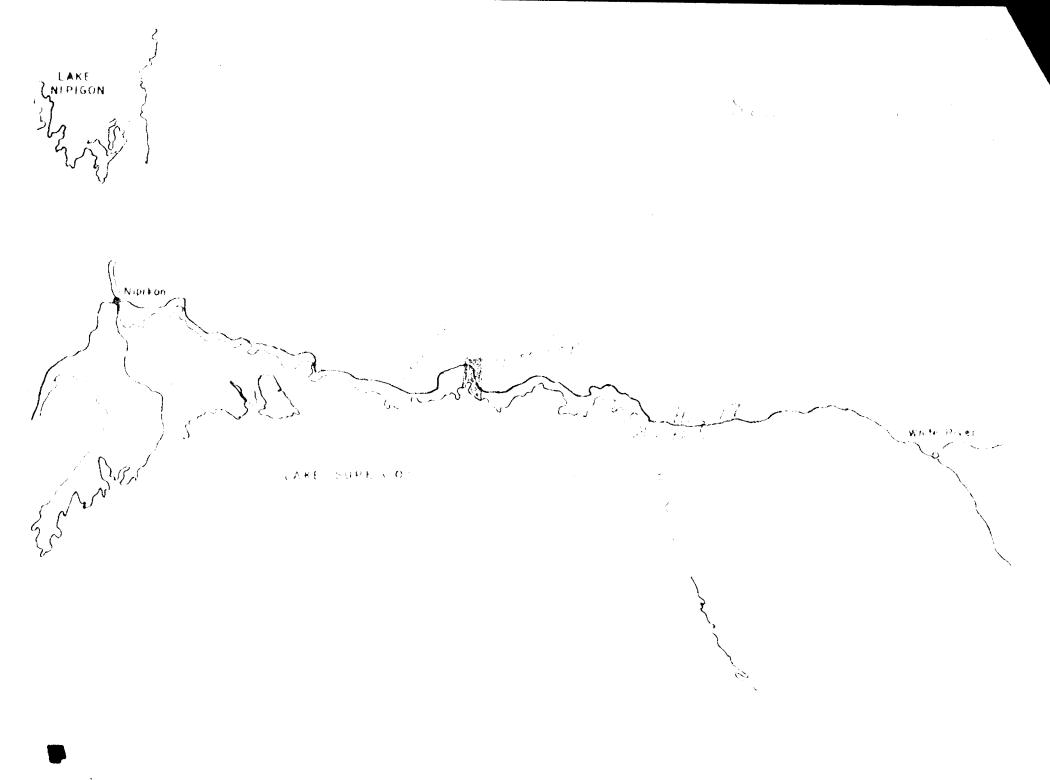
The VLF-EM survey showed no cross overs.

Neither system seems to give any indication of the mineralized area, although the quartz veins appear to be in an area of lower magnetic readings.

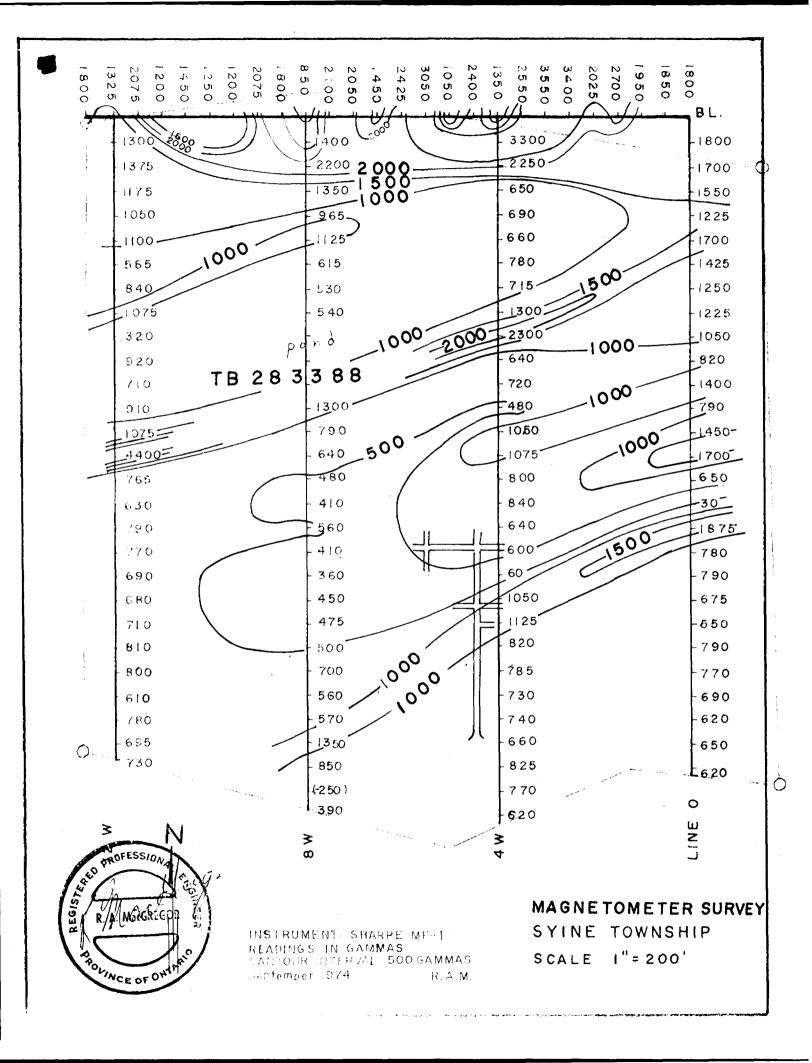
Respectfully submitted,

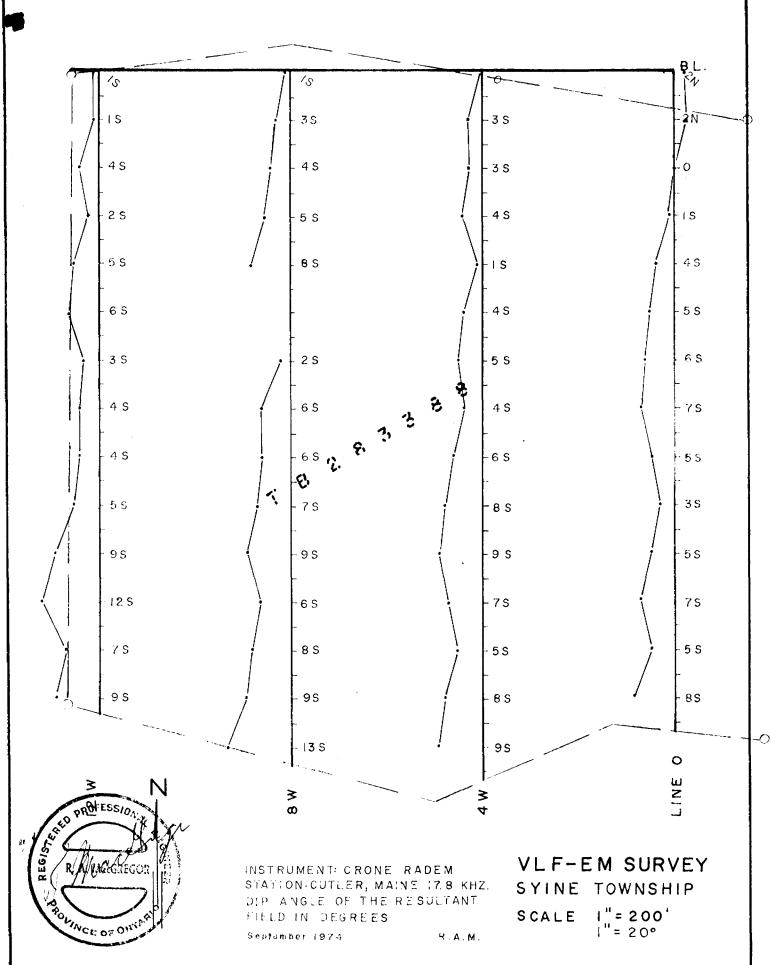
September 29,1974

R. A. MacGregor, P.Eng.



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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-Goophysica	1 (Mag. & VLF-BM)		
Claim holder(s)_R.A. MacGregor		MINING CLAIMS TRAVERSED List numerically	
134 Palace Dr. Sault Ste Marie, Ont.			
Author of Reportsame_a	6 above		
Address		T.B283388	
Covering Dates of Survey July Total Miles of Line cutl	5-9; Sept. 22-23, 27& 30/74 (linecutting to office)		
	DAYS Geophysical Electromagnetic Magnetometer Radiometric Radiometric Complexible Magnetometer 		
(ente	NATURE:Author of Report or Agent		
PROJECTS SECTION Res. Geol Previous Surveys + [).	Qualifications2.1102		
Checked by	date		
GEOLOGICAL BRANCH			
Approved by	date		
GEOLOGICAL BRANCH			
Approved by	date	TOTAL CLAIMS	

GEOPHYSICAL TECHNICAL DATA

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GROUND SURVEYS			Mag. 135	
Number of Stations	Nun	nber of Readings_		
Station interval. Nag. 50 ft. VLF-				
Line spacing400_£t.				
Profile scale or Contour intervals <u>Mage</u> conto (specify f	or cach type of survey)	VLP-EM	dip angle 1=200	
MAGNETIC				
Instrument Sharpe MF-1			_n	
Accuracy - Scale constant 5 gammas on 10	west scale			
Diurnal correction method	ime along a lo	op from base	station	
Base station location 1400 on 41				
ELECTROMAGNETIC				
InstrumentCrone_Radem				
Coil configuration_Not_applicable				
Coil separation Not applicable				
Accuracy		ale for a state of the state of		
Method: 🙀 Fixed transmitter	Shoot back	🗆 In line	Parallel line	
FrequencyCutler, Maine 17.8	KHZ			
Parameters measured Dip angle of the	(specify V.L.F. station)	14		
<u>GRAVITY</u>				
Instrument				
Scale constant		······································		
Corrections made				
		×		
Base station value and location				
Elevation accuracy				
INDUCED POLARIZATION - RESISTIVITY				
Instrument				
Time domain	n Frequency domain			
Frequency	Range	······································		
Power				
Electrode array				
Electrode spacing				
Type of electrode				

R.A. MacGREGOR, P. ENG. 134 PALACE DRIVE St. STE. MARIE, ONT.

