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REPORT ON VLF-EM SURVEYS SKEAD, RATTRAY AND MCFADDEN TOWNSHIPS ONTARIO

MERING LANDS SECTION

Introduction

A VLF-EM survey was carried out in Skead, Hearst and McFadden Townships. The results are shown on the enclosed plan.

Location, Access and Ownership

The claims covered by the survey are located in lots 11 and 12 Concession 6 Skead Township; the northwest corner of Rattray Township and a small adjoining area in McFadden Township. The claims are numbered L476697, L476706, L476707, L476709, L476710, L511640, L511641, L531349, L531358, L531359, L532828, L548637, 548638. They are recorded in the name of Superior Northwest Inc. Box 1110, Sault Ste. Marie, Ontario.

Access can be had by old logging roads leading to Grace Lake from Highway 626 about 7 miles south of Larder Lake, Ontario; and then by following claim lines east to the survey area.

Previous Exploration

There is little to be seen of previous exploration in the area. Old pits are reported near the Skead-Rattray Township line, but little information is now available. Some limited geophysical and prospecting was carried out by Geophysical Engineering and Surveys under an option agreement in 1977. Some sulphides were located in this work.

Geology

The property is underlain by a volcanic sequence of rocks cut by felsic to mafic intrusives. Sedimentary rocks may overlie the volcanics or be interbedded with them.

Survey Procedure

A grid was laid out across the property with a baseline running about 12° west of north. Cross lines were cut perpendular to the baseline at 400 foot intervals. A VLF-EM survey was carried out using a Crone Radem instrument set to the signal from Annapolis, Maryland (21.4 KHz). Readings were taken at 100 foot intervals using the procedure outlined in Appendix 1.

Results and Conclusions

A number of strong to medium strength anomalies have been located which are shown on the enclosed maps. The anomalies approximately parallel the baseline which is approximately on strike of the underlying volcanic rocks.

Further work is indicated to trace out the anomalies north and south of the area surveyed. Prospecting and geological surveys should be carried out to locate the cause of the anomalies.

Respectfully submitted

June 24, 1980

Robert A. MacGregor

CERTIFICATE

- I, Robert A. MacGregor, certify:
- 1. I am a Mining Engineer residing at 134 Palace Drive, Sault Ste. Marie, Ontario. I have worked as a mining engineer and geologist for the past 17 years.
- 2. I am a member of the Association of Professional Engineers of the Province of Ontario and a member of the Canadian Institute of Mining and Metallurgy.
- 3. I attended Queen's University for two years in the Mining-Geology course.
- 4. I personally carried out or supervised the field work on the subject claims.

June 29/20

R. A. MacGregor





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If space insufficient, attach list

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) VLF-EM		
Township or Area Skead, Rat		MINING CLAIMS TRAVERSED
Claim Holder(s) SUPERIOR NORTHWEST INC.		List numerically
Colex Expl	lamatiana Yna	
Survey Company Colex Explorations Inc. Author of Report R.A. MacGregor		(prefix) (number)
•	Address of Author P.O. Box 1110, Sault Ste. Marie	
Covering Dates of Survey March-June 1980		1476707 • 1476709 • 1476709
	(linecutting to office)	1476710 .
Total Miles of Line Cut		, L511640 . 1/2 -
		<i>a</i> .
SPECIAL PROVISIONS CREDITS REQUESTED	DAYS Coophysical per claim	- L311641 3/4 -
	Geophysical	- L531349 ³ /4
ENTER 40 days (includes	Electromagnetic 20	L531358 • /
line cutting) for first	Magnetometer	······································
survey. ENTER 20 days for each	Radiometric	L531359 *
additional survey using	Geological	L532028 3/4
same grid.	Geochemical	L548637 14
AIRBORNE CREDITS (Special provis		/L348638 !/4
MagnetometerElectromagn	neticRadiometric	
(enter days per claim)		Λ , (
DATE: 3une 24, 1980 SIGNA	ATURE: Author of Report of Agent	aceas un cornel
	radinos de responsable de la constante de la c	= 3/0 claims
	· · · · · · · · · · · · · · · · · · ·	1. 13 × 20: 260 days
Res. Geol. Qualifications 2 1/02 de previous Surveys		13 + 3
V V		
File No. Type Date	Claim Holder	· 16 days pur davin
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·····	L.D.	
J	······	TOTAL CLAIMS_13

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey 437 ____Number of Readings ___ Number of Stations ___ Line spacing 400 Feet Station interval _____ 100 Pest 1" = 40° Profile scale____ Contour interval Instrument _____ Accuracy - Scale constant _____ Diurnal correction method _____ Base Station check-in interval (hours)_____ Base Station location and value _____ Crone Radem Instrument ___ ELECTROMAGNETIC Coil separation ____ Accuracy _____ ☐ Parallel line ☐ Fixed transmitter ☐ In line Method: ☐ Shoot back Frequency Annapolis, Maryland (21.4KHz) (specify V.L.F. station) Parameters measured Dip angle of the resultant field Instrument _____ Scale constant _____ Corrections made Base station value and location _____ Elevation accuracy_____ Instrument _____ ☐ Frequency Domain Parameters — On time ______ Frequency _____ - Off time ______ Range _____ - Delay time _____ - Integration time Power ____ Electrode array Electrode spacing

Type of electrode _____

INDUCED POLARIZATION