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REPORT ON

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VLF-EM AND GEOLOGICAL SURVEYS

SKEAD TOWNSHIP, ONTARIO

By

2,1/02 R.A. MacGregor, P. Eng.

December 7, 1990

NECEIVED

MITTING LANDS SECTION

C. P. Call

INTRODUCTION

Geological and VLF-EM surveys were carried out by pace and compass lines during 1990.

LOCATION, ACCESS AND OWNERSHIP

The property is located in lot 10 Concession 6, Skead Township. There are 5 claims numbered L917302 to 917303; L918926 to 918927 and L892018. They are recorded in the name of R.A. MacGregor, 28 Ford Street, Sault Ste. Marie, Ontario.

Access to the claims is by way of old logging roads and trails from Highway 624 about 6 miles south of Larder Lake, Ontario. In dry weather it is possible to drive to within ½ mile of the property.

PREVIOUS EXPLORATION

There are few records of previous exploration, however old pits and a shallow shaft have been located on the property indicating considerable work in the past. An airborne geophysical survey has been flown over the claims, and previous owners did some ground geophysics.

TOPOGRAPHY

The claims are a series of low rocky hills with swampy areas between. The highest area is along the south-west boundary where ultramafic rocks outcrop.

SURVEY PROCEDURE

The north and east boundary of L892018 and the north boundary of L917302 had been previously cut out. Pace and compass lines were run from these lines and along claim lines to cover the property.

GEOLOGY

The claims are underlain by a volcanic-sedimentary sequence of rocks intruded by felsic to mafic intrusive rocks. Younger Cobalt outcrop on the east side of the property and overlie the volcanics and intrusives. er.

PAGE NO.

Geology (Continued)

The rock succession is fine grained greywackes in the north east which appear to overlie felsic to mafic volcanics to the south west. Ultramafic to mafic volcanics lie to the southwest consisting of gabbro and serpentinized ultramafics.

In the central part of the claims there is a syenitehornblendite intrusion cutting the volcanics and sediments. There is a felsic intrusive or dyke outcropping along the west part of claims L918926.

DISCUSSION OF RESULTS

VLF-EM

There is a strong tendency for VLF-EM cross-overs to follow drift filled depressions between rock outcrops. The anomalies may be caused by overburden effects, however they also are often along assumed contacts between different rock types, the contacts also being drift covered. Further geophysical surveys by other methods and other types of prospecting are indicated.

Geology

The geology shows a volcanic-sedimentary section from ultramafic to mafic to felsic volcanics overlain by sediments and cut by a number of intrusions. Pyrite mineralization is fairly common. No base metal sulphides were noted, and the few assays taken gave low values. The geology is favourable for sulphide deposits although only pyrite was noted in the survey.

Respectfully submitted

Mach.

R.A. MacGregor, P. Eng.

December 7, 1990

R. A. MACGREGOR, P.ENG.

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CERTIFICATE

I, Robert A. MacGregor, Certify:

- 1. I am a Mining Engineer residing at 28 Ford Street, Sault Ste. Marie, Ontario. I have worked as a mining engineer and geologist for the past 20 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.
 - I am the recorded holder of the mining claims in this report and have personal knowledge of the work performed.

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OR OFESSIO, Robert

Legend R ky olite 24: (a) rhyolite tuff, agglomerate 1374🥩 Basa It Gabbro 4 Serpentinized ultramafic 1 4 F Greywake forcek Sy enite (a) horn blendite **A**4 4 15 **A** (b) lamprophyre 892018 Granite 4 SKEAD TWP. 4 · 4 **1** ' A SCALE |"= 400' Unconformity 約4 南4 4 Cobalt series conglomerates - A 1930 S 4 sclattered Geological Plan ofterop lor to ØD sl. 0.4 pit preite (T.C.) 82 4 (II) Mageau 2 8926 Ś Hered n z to la Hake 4 91 L *2* 4 Ola و4۹ Ja 202 2917302 P 3)a 雪し 85 Sit 🐝 5a 2 2 **e** 5 **1** 2 🖲 5a کرو 2 15a ×30 1 2 5 3 Ja. 2 open skeg # Z **1**3a L 918927 thick 🍖 5 b 2 alders 5a1 wampil sa, 3a second L917303 growth. 30 **a**, 3 **3**a 🤍 3a O dykes Greek Beaver pond 23a 42 30



Type of Survey(s)	ical			Mining Division Larder La	ke	Township or Skea	Area d Tow	nship	<u>)</u>
R.A. MacGrege	or						Prospecto	5070	NO.
28 Ford Street	t, SAULT ST	E. MARI	IE. Ont	tario P6A A			Telephone Q.A	No.	
Survey Company						,		<u> </u>	
Name and Address of Author (of	Geo-Technical Report)	<u></u>					Date of \$	urvey (froi	m & to)
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Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

File	
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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) Township or Area Claim Holder(s)	VLP-EN Skead T R.A. Na	E GEOLOGICAL ownship cGregor	- MINING CLAIM	S TRAVERSED erically
Survey Company Author of Report Address of Author Covering Dates of Su Total Miles of Line C	Colex E R.A. MacGr P.O. Box 1 arvey 01/0 Cut	xploration Inc. egor, 110, Sault Ste. Marie, S/MQuint.ptoQR/612/90	- - - - - - - - - - - - - - - - - - -	(number)
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Res. Geol Previous Surveys File No. Type	Qualif Date	ications Claim Holder	-	
			TOTAL CLAIMS_	5

837 (85/12)

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

Number of Statio	ns	Number	of Readings	
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• Type of electro	bde			

INDUCED POLARIZATION

NOTES

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

- F .65 APPLICATION UNDER PUBLIC LANDS ACT

AREAS WITHDRAWN FROM STAKING

SAND AND GRAVEL

GENTC PIT NOJ230



Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. _#-63-83 Surface and Mining Rights Withdrawn from (R^2) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. _*-7-86 PART OF RE REOPENED BY ORDER NO. 0-LIDIORS NR PART OF REOPENED BY ORDER NO. 0-LIDIOS NR PART OF REOPENED BY ORDER 0-LIDIOS A Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. w-e-ee PART OF R4 REOPENED BY ORDER 0-19/68L NOV 30/84 Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. ______ Port of R5 re-opened 034/86, 033/86, 012:87 PART OF R5 RECPENED BY 0 27 88 NR MAR 30/988 Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. _____ PART OF RE REDPENED BY 0-17/88L NOV 30/88 THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. AND ACCURACY IS NOT GUARANTEED THOSE

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