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MINING TARUS SECTION

MAGNETOMETER, VLF-EM AND

GEOLOGICAL SURVEYS

MCELROY TOWNSHIP, ONTARIO

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R.A. MACGREGOR, P. ENG.

JULY 24, 1991

1NTRODUCTION

Magnetometer, VLF-EM and Geological surveys were carried out on 3 claims in McElroy Township, Ontario.

LOCATION, ACCESS AND OWNERSHIP

The property is located in the central part of McElroy Township, District of Temiskaming, Ontario. The claims are numbered L1136631, L1136635 and L1136757. They are recorded in the name of Skead Holdings Ltd., c/o Box 1110, Sault Ste. Marie, Ontario.

Access to the property is by a forest access road which runs north from Highway 624 about 10 miles south of Larder Lake, Ontario. From the forest access road, logging roads and trails can be followed to the area of the claims.

PREVIOUS EXPLORATION

The claims have been explored in the past by geophysical surveys.

SURVEY PROCEDURE

An existing linecut grid, now partially overgrown, was used with pacing for distances. Lines have previously been cut every 400 feet from the baseline.

Magnetometer readings were taken with a Sharpe MF-1 Fluxgate Magnetometer at 100-foot intervals. The looping method was used for control of 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 diurnal 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 readings.

A VLF-EM survey was run with a Crone Radem instrument set to the signal from Cutler, Maine (24.0 KHz). Readings were taken at 100-foot intervals along all the lines, using the procedure outlined in Appendix 1. The looping method was used for control of variation as in the magnetometer survey.

2

Survey Procedure (Continued)

The geological survey was run by traversing the lines and noting outcrop and rock type. Some samples were taken for possible future analysis.

DISCUSSION OF RESULTS

Magnetometer

There is a magnetic high centred on the north-westerly claim in the group. A low exists in the centre of the most south-easterly claim.

VLF-EM

There is a cross-over on the central claim along the baseline.

Geology

The claims underlain are by a volcanogenic breccia-conglomerate cut by diorite. Ultramafic rocks outcrop to the south west and may underlie drift covered areas on the claims.

CONCLUSIONS

The three claims are along the projected trace of the Lincoln-Nipissing shear zone. It may be represented by the VLF-EM cross-over and the magnetic low on the two southerly The magnetic high should be investigated further. claims. The diorite contains sulphide mineralization. The area should be prospected for nickel sulphides.

Respectfully submitted

R.A. MacGregor, P. Eng.

A Mach

July 24, 1991

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.
- 4. I am the recorded holder of the mining claims in this report and have personal knowledge of the work performed.

July 19/9/

Robert A. MacGregor



32D04SW0114 2.14266 MCELROY

2.14266

REPORT ON

AND PROBES

GEOLOGICAL AND MAGNETOMETER SURVEYS

MILLING LANDS SECTION

BOSTON & MCELROY TOWNSHIP, ONTARIO

Ву

R.A. MACGREGOR, P. ENG.

JULY 23, 1991

I. INTRODUCTION

Magnetometer and geological surveys were carried out over 20 claims in McElroy and Boston Townships. Results are shown on the enclosed plans.

II. LOCATION, ACCESS AND OWNERSHIP

The property is located in McElroy and Boston Townships, District of Timiskaming, Ontario. There are twenty claims numbered L1046099 to L1046118 recorded in the name of Skead Holdings Ltd., c/o P.O. Box 1110, Sault Ste. Marie, Ontario.

The claims are located south of the Adams Mine property in Boston and McElroy Townships. The property can be reached by roads running to the control dams for the Adams Mine tailings disposal area. Adams Mine is about 12 miles south of Kirkland Lake and can be reached by Highway 112 and a paved secondary highway through Dane, Ontario.

111. PREVIOUS EXPLORATION

Previous exploration has consisted of geophysical surveys, diamond drilling and some old pits and trenches for which there are no records.

VI. GEOLOGY

The claims are underlain by a volcanic-sedimentary sequence of rocks cut by felsic to ultramafic intrusives. band of ultramafic rocks trending northewest through the centre of the claims. It consists of serpentinization peridotite and may be intrusive or extrusive. It is flanked by coarse gabbro which from drilling to the south east is at least in part intrusive. The gabbro is cut by quartz stringers and intebedded with felsic tuffs and rhyolite. Andesite outcrops in the most south westerly claim. A syenite to granite intrusive ties in the south central part of the claims. It is probably related to the McElroy stock which lies about one mile east of the claims. 1nthe east part of the claims a volcanogenic breccia-conglomerate outcrops.

Geology (Continued)

The Lincoln-Nipissing shear zone is projected to cross the property in a northwesterly direction. Most of the low lying areas on the claims are now covered by tailings from the Adams Mine. The mine is now closed and the tailings areas have been drained which makes for easy traversing.

V. SURVEY PROCEDURE

An existing baseline and linecutting, obliterated in many places was used for pace and compass traversing.

Magnetometer readings were taken with a Sharpe MF1 Fluxgate Magnetometer at 100-foot intervals. The looping method was used for control of 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 diurnal 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 readings.

Pace and compass lines were also traversed to examine rock outcrops, as well roads and outcrops around the tailings areas were traversed. Location was checked against air photographs. Outcrops and rock type were plotted on the enclosed map. Some samples were taken for future analysis.

VI. RESULTS AND CONCLUSIONS

Magnetometer

The magnetometer survey outlines the ultramafic rocks through the centre of the property. High readings are caused by magnetite content within the ultramafic rocks. Magnetic low areas should be checked for carbonate alteration possible associated gold mineralization.

Results and Conclusions (Continued)

Geology

The geological survey outlines the general geology of the property and will be helpful in further assessing its potential.

Respectfully submitted

July 23, 1991

R.A. MacGregor, P. Eng.

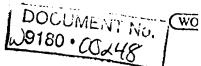
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- 4. It am the recorded holder of the mining claims in this report and have personal knowledge of the work performed.

Date

Robert A. MacGregor







32D04SW0114 2.14266 MCELROY

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	Mining Act	Report of Work (Geophysical, Geological and Geocher	mice
Ives a	(Cup anda)		Main

Type of Survey(s)	Mining Division	Township or Area
VLF-EM, Magnetometer & Geology	Larder Lake	McElroy Township
Recorded Holder(s) Skead Holdings Ltd.		Prospector's Licence No. T-1956
c/o P.O. Box 1110, SAULT STE. MARI	E, Ont. P6A 5N7	Telephone No. 949-5928
Survey Company Colex Exploration Inc.	3.1420	3.0
Name and Address of Author (of Geo-Technical Report) R.A. MacGregor, 28 Pord St., Sault		Date of Survey (from & to) 05 91

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) Special Provisions Mining Claim Mining Claim Mining Claim Days per Claim Geophysical Prefix Prefix Number Prefix Number Number For first survey: 1136631 20 L - Electromagnetic Enter 40 days. (This includes line cutting) 1136635 20 Magnetometer AT MAK For each additional survey: - Other 1136757 3:40 using the same grid: 20 Geological Enter 20 days (for each) Geochemical Man Days Days per Claim Geophysical Complete reverse side and · Electromagnetic enter total(s) here - Magnetometer ONTARIO GEOLOGICA SURVEY GIS - ASSESSMENT FILES Other Geological OCT 0 8 1491 Geochemical Airborne Credits Days per Claim RECEIVED RECEIVED Note: Special provisions Electromagnetic credits do not apply to Airborne JUL 02 1991 Magnetometer Surveys Other MINING LANDS SECTION Total miles flown over claim(s) Total number of Date Recorded Holder or Agent (Signature) mining claims covered 3 May 31/91 by this report of work. Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying

R.A. MacGregor, 28 Pord St., Sault Ste. Marie, Ontario P6A 4N4

Telephone No.

705-949-5928

Total Days

Cr. Recorded

Mining Recorder

Provincial Manager, Mini

1362 (89/06)

.160

Date Approved as Recorded



Type of Survey(s)

Ministry of Northern Development and Mines



DOCUMENT No. 27400 • 180 في

Mining Division

Instructions

Refer to Section 77

and maximum cred is allowed p If number of mining

or assessment work requirements survey type, sed exceed action this form. attach a list.

Report of Work Mining Act

(Geophysical, Geological and Geochemical Surveys)

Technical Reports and maps of duplicate should be submitted to Mining Lands Section. Mineral Development and Lands Branch: Township or Area

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OFFICE USE ONLY



Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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 Sur	rvey(s) GBO	LOGICAL,	MAGNETOMETER	& VIP-EH		
Township o	or Area	McElroy	Township		MINING CLAIMS T	DAMEDSED
Claim Hold	er(s)	Skead Ho	oldin gs Ltd.		List numer	
•	•		oploration Inc.		L1136631 (prefix) 1136635	(number)
Address of	Author P.0	. Box 1	110, Sault Ste.	Marie, Ont		***************************************
Covering Da Total Miles			(linecutting to office)	1	1136757	
ENTER 4 line cutting survey. ENTER 2	PROVISION REQUESTED A days (income) for firsted ays for each of the survey using the survey	CED ludes	GeophysicalElectromagneticMagnetometerRadiometricOther Geochemical	20		
Magnetome		Electromagr (enter d	netic Radiome ays per claim)	etric		
Res. Geol Previous Su		Qualif	ications			
File No.	Type	Date	Claim Hold	er		
					TOTAL CLAIMS	3

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey 137 _____Number of Readings _ Number of Stations _ 400 feet 100 feet Station interval ___ ____Line spacing ___ 1" = 40° Profile scale ____ 1000 gammas Contour interval_ Sharpe MF-1 Fluxgate Magnetometer Instrument ____ 20 gammas on lowest scale Accuracy - Scale constant ___ looping method Diurnal correction method ____ 2 hours or less Base Station check-in interval (hours)_____ various along base line Base Station location and value _____ Crone Radem Instrument ___ ELECTROMAGNETIC N/A Coil configuration _ N/A Coil separation ____ ± 4° Accuracy ____ Fixed transmitter Method: ☐ Shoot back ☐ In line Parallel line (24.0 KHz) Cutler, Maine Frequency___ Dip angle of the resultant Treld Parameters measured___ 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

OFFICE USE ONLY



Ministry of Natural Resources

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) — Hagnet Township or Area — Boston Claim Holder(s) — Ekoad	_	MINING CLAIMS TRAVERSED List numerically
Survey Company Colex Author of Report R.A. Hacc Address of Authorp.o. Box Covering Dates of Survey Total Miles of Line Cut	regor, 1110, Sault Sto. Marie, Ont 04/91 to 23/07/91 (linecutting to office)	
SPECIAL PROVISIONS CREDITS REQUESTED ENTER 40 days (includes line cutting) for first survey. ENTER 20 days for each additional survey using same grid.	Geophysical Electromagnetic Magnetometer Radiometric Other Geological Geochemical	
MagnetometerElectrome	ovision credits do not apply to airborne surveys) agnetic Radiometric er days per claim)	1046110
DATE: <u>July 23, 199</u> [6] Res. Geol. Qua	Author of Report of Agent	
Previous Surveys File No. Type Date	Claim Holder	1046115 1046116 1046117 1046118
		TOTAL CLAIMS 20

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations Station interval	767 100 foot	Number of ReLine spacing	9	feet
Profile scale	1" == 40°			
Contour interval	1000 gammas			
Accuracy – Scale of Diurnal correction in Base Station check-	Sharpe MF-1 Plusonstant 20 gammas Comethod looping me in interval (hours)	n lowest scale thod 2 hours or less		
Coil configuration.				
•			**************************************	
•				
	☐ Fixed transmitter		☐ In line	Parallel line
Frequency		(specify V.L.F. station)		
Parameters measure	-d			
Instrument				
	nd location			
Elevation accuracy.				
Instrument				
Method	Domain	☐ Freque	ency Domain	
	me	•	*	
– Off ti	me	Range		
– Delay	time			
Integr	ration time			
•				

INDUCED POLARIZATION

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O MINING RIGHTS ONLY

S.R.O. SURFACE RIGHTS ONLY

M.+ S. MINING AND SURFACE RIGHTS

Description Order No Date

RI) SEC. 43/70 18.

18/4/73 M.R.O. 58991

RE SEC 36/80 W14/86 7/4/85 9.R.O.

SAND AND GRAVEL

G GRAVEL FILE

(G2) GRAVEL

FENDING APPLICATION UNDER PUBLIC LANDS ACT (SURFACE RIGHTS)

FILE 33786

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE

TIMISKAMING MANAGEMENT UNIT

AND MAY BE SUBJECT TO FORESTRY OPERATIONS.

THE MNR UNIT FORESTER FOR THIS AREA CAN BE

CONTACTED AT: P.O. BOX 129

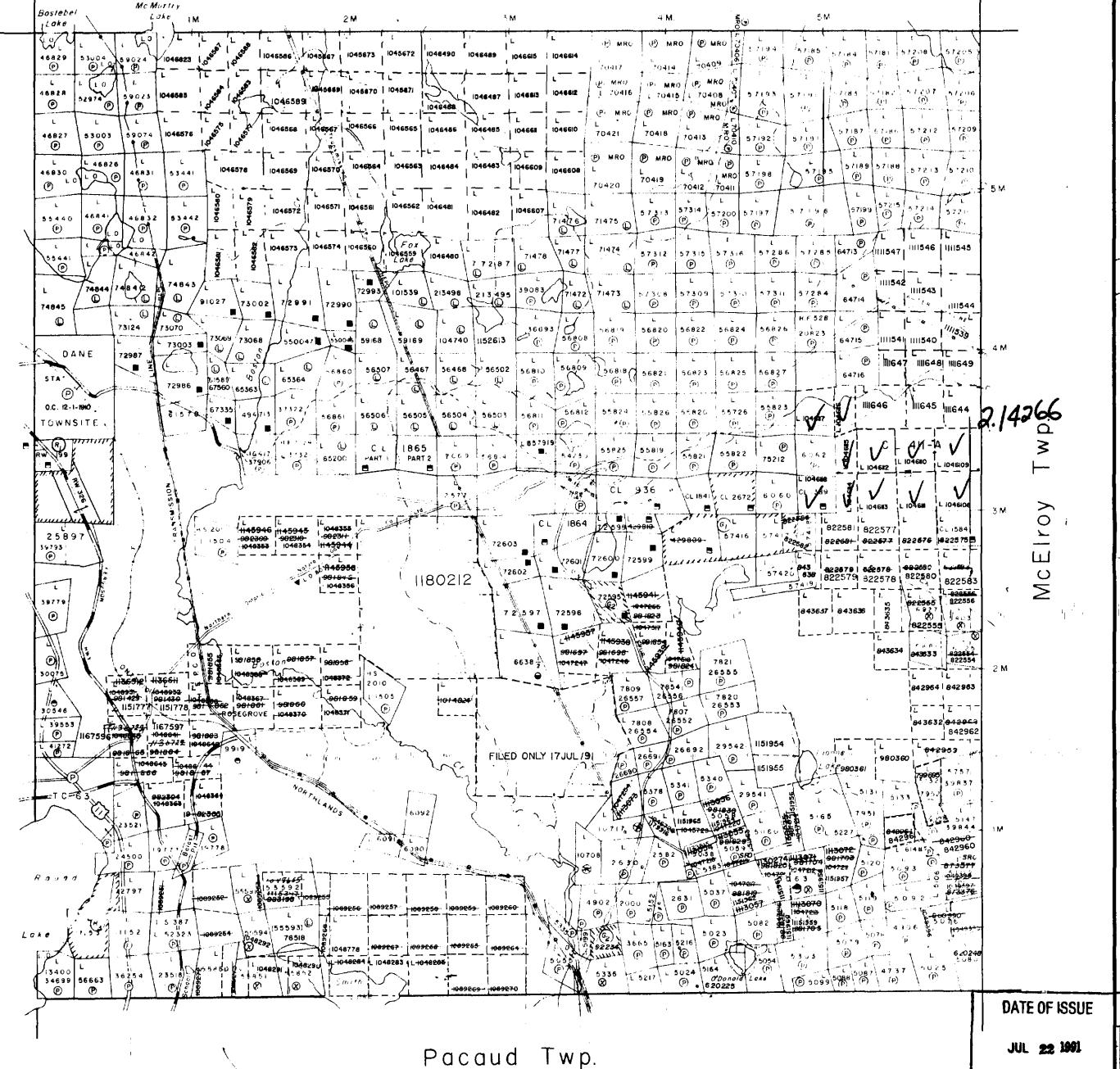
SWASTIKA, ONT.

POR ITO

SWASTIKA, ONT. POK ITO 705-642-3222

CIRCULATED ARPRL 26/88

Lebel Twp.



LEGEND

MARINE MAN MENT SYMBOLIS ONLY

SCALL LINEN 40 CHAINS

TOWNSHIP

BOSTON

M N R ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

TIMISKAMING



Ministry of Northern Development and tiles

Ontario

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JANUARY 1985 G-320

200 L Kelamay

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LARDER LAKE
MINING RECORDER'S OFFICE

