

11116NE1088 0020A1 SCHOLES

EAGLEROCK LAKE GROUP SCHOLES TOWNSHIP

DISTRICT OF TEMISKAMING

ONTARIO

General

15.

A group of thirty-eight unpatented mining claims in Scholes
Township, District of Temiskaming, staked by employees of this Company
in June, November and December, 1955, was surveyed by magnetic and electromagnetic methods during the months of November, 1955 - June, 1956. These
claims are numbered as follows:

T.36503-4-5-6 T.36978-9-80-1-2-3-4-5-6-7-8-9-90-1-2-3-4-5-6-7-8-9 T.37000-1-2 T.37238-9-40-1-2-3-4-5-6

Purpose of Survey

The purpose of the survey was to locate magnetic anomalies and electromagnetic conductors that may represent or lead to the discovery of valuable sulphide ore.

Company Conducting Survey

The dip needle and electromagnetic surveys were conducted by technicians employed by Noranda Mines, Limited and Crone Geophysics during the period November 18, 1955 - June 27, 1956.

Results of Electromagnetic Survey

The results of the electromagnetic survey are shown on the map accompanying this report. The receiver coil dip angle readings were taken at 100 foot intervals along east-west traverse lines 400 feet apart over the whole property (except water) and 200 feet apart over an area of about one claim in the showing area. Readings indicated as + (positive) represent a receiver coil dip angle to the right, and readings indicated as - (negative) represent a receiver coil dip angle to the left. All readings were taken with the transmitter set up at the location indicated

by the number at the end of each line of readings.

Following is the discussion of results supplied to this Company by Crone Geophysics.

"Electro Magnetic Survey Report Eagle Rock Lake Property.

Conductors (1) and (2) occur in mineralized, graphitic, iron formation. They are weak conductors most likely representing the graphite.

Conductors (3) and (4) are similar in that they have the same strike, are associated with strong magnetic highs and occur entirely within the purphry. Further exploration of these anomalies is recommended.

Conductor (5) follows the porphry diabase contact and is most likely caused by graphite in a small band of iron formation which also follows the contact.

Part "B"

The detailed region west of the camp contains a multitude of strong conductors. Conductors (1) and (2) are long, strong and appear to be connected with some major structure which could be faulting or iron formation.

Numerous short strong conductors occur at the end of conductors (1) and (2) generally striking N.30 to 60 E. These conductors are undoubtedly connected with the numerous pyrrhotite bands shown in the trenches and correspond with the general strike of the iron formation.

Other conductors shown in the area are weak and generally associated with the iron formation.

Further exploration should be concentrated on the (1) and (2) conductors."

Instrument and Sensitivity

The instrument used on the electromagnetic survey was a 500 watt - 1.000 cycle unit capable of a 1.500 foot range. This provides a 10° null at 1,500 feet. The E.M. unit consists of a transmitter assembly and a receiver assembly.

Stations Established

A total of 1,237 receiver stations were established, and 18 transmitter stations were set up. Twenty-four and one half miles of line was cut on the land area of the claim group, and 4.48 miles of grid was catablished on the lakes for winter work.

Dip Needle Survey

The results of the dip needle survey are shown on the map accompanying this report. This survey was done previous to the electromagnetic survey, and assisted in the interpretation of this survey and the geological survey.

In general the area underlain by Eaglerock Lake and the land area south of the south boundary of 36,992 is flat magnetically, ranging from 0° to 5° dip, the general trend is for larger overall dips to occur on the north portion of the property.

Most of the anomalies obtained in the claim group can be attributed to the pyrrhotite-bearing iron formations which are most extensively developed in the area west of the camp on Eaglerock Lake, and in the far northwest corner of the claim group.

On lines 92 N. and 112 N., about 4-500 feet east of the base line, isolated anomalies occur in an area underlain by feldspar porphyry intrusive. A small vein of magnetite was noted near the location of the anomaly on line 92 N.

Instrument and Sensitivity

The instrument used on the dip needle survey was a Sharp. Super dip unit having a sensitivity of about 100 gammas per scale division. All readings were taken on the swing. The instrument was slightly adjusted to read zero at 54 N. 1150 E.

A total of 2,828 instrument stations were established. In addition to the 24.5 miles of line cut for the E.M. and dip needle surveys on land a grid totalling 4.48 miles of line was established on the ice surface of the lake.

General Geology

The property is underlain by Keewatin type greenstones and iron formation, Huronian sediments, and by feldspar porphyry, and Nipissing diabase intrusives.

The Keewatin rocks, altered basic and intermediate volcanics and at least two bands of siliceous iron formation strike east-west across the north part of the group, and generally north-south in the eastern portion west of Eaglerock Lake. They there form a large fold, but because of the lack of structural (top determination) data it is not possible to tell whether it is a syncline or anticline.

Unconformably overlying the Keewatin rocks the Huronian conglomerate, greywacke, and quartzite are best exposed around the west shore of Eaglerock Lake near and on the island.

Quartz and feldspar porphyry intrusives cut the Keewatin rocks, notably in the north portion of the group, but the relationship with the Huronian sediments are unknown as nowhere were the two formations seen in contact.

Nipissing diabase outcrops as prominent steepsided, flat-topped hills, and is a capping over much of the older rocks. It represents a flat-lying dyke, but nowhere were older rocks seen on the upper surface, so its original thickness is not known.

In general the property has a medium to heavy covering of glacial debris, and outcrops are relatively scarce.

Respectfully submitted,

B. S. WOOLVERTON GEOLOGIST.

RSW: s Aug. 27/56.

STATEMENT OF WORK

GEOPHYSICAL SURVEY

EAGLEROCK LAKE GROUP

Line Cutting, Picketing, Chaining								
Eiler Maki, Worthington, Ont.	Nov.	18	-	Dec.	20,	1956	32	
Wayne Cameron, Worthington, Ont.	Nov.	18	-	Dec.	20,	1956	32	
Leo Turcotte, Ottawa, Ont.	Apr.	1	-	May	5,	1956	35	
G. Lafleche, Trout Creek, Ont.	Apr.	1	-	May	5,	1956	_35	134
Instrument Work W.H. Reed, Sault Ste. Marie, Ont.	Jan.	5	-	Peb.	15,	1956	40.	
G. Lafleche, Trout Creek, Ont.	Jan.	5	-	Peb.	15,	1956	40	
R. McCullough, Toronto, Ont.	May	1	-	June	22,	1956	52	
G. Lalievre, Toronto, Ont.	May	1	-	June	22,	1956	52	
W. Woychuk, Toronto, Ont.	May	15	-	June	22,	1956	37	221
								355
Consultation and Supervision R.S. Woolverton, Don Mills, Ont.	Nov.	30	_	June	27	1956		
•	(Equ:	Lva:	161	nt 8 1	hour	days)		15
D. Crone, Cooksville, Ont. Jan. 1						days)		15
Pield Draughting								
W. Woychuk, Toronto, Ont.						1956		
	(Equ:	lva]	ler	nt 8	hour	days)		9
Office Draughting								
C. King, Toronto, Ont.						1956 days)		10
	(Dqu.				iour	uays)		19
Report Preparation R.S. Woolverton, Don Mills, Ont.	Nov.	30	-	June	27,	1956		4
D. Crone, Cooksville, Ont.	Jan.	1	-	June	27,	1956		4
Total 8 hour man days								421
Assessment work days $\frac{421 \times 4}{38}$ =	44 de	ув	pe	er cla	aim			
Amount submitted per claim <u>&O</u>								

Certified by

R.S. Woolverton, Geologist.

RSW: 8 Aug. 23/56. NUMBER

Eaglerock Lake property of Noranda Mines Std.

LOCATION

Scholes township - Englerock dake, T 36503to 36506 37238 \$ 37246

OWNERSHIP

Monanda Mines Its.

DEVELOPMENT

Test pito and trenches; electromagnetic and magnetic surveyo; geological surveying.

GEOLOGY

Mineralized zones in siliceous iron formation in Keewatin-typo guenotones. Main you is roo fut long and poon 2 to 30 feet wide Minual jation consists of pyrite, pyrhotte, low chalcopyrite, onin chales sphaleste.

PRODUCTION

(Production figures, if any, will be supplied by the Ontario Department of Mines Statistician)

ORE RESERVES OR DIMENSIONS

ANT GRADE OF BODIES

No exper one indicated to date. Onineralyation over soo fut, varies from 2 13 30 feet wide. Best channel sample 0.51% le over 3 feet. Of north end channel sample i wage 0.20% lu over 28 fut.

SELECTED REFERENCES

RLYARKS

Further work by noranda directed toward drilling of E.M. anomaly.

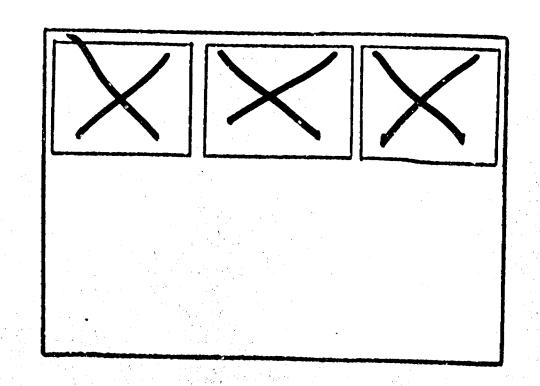
(Signed) MM polvertoro

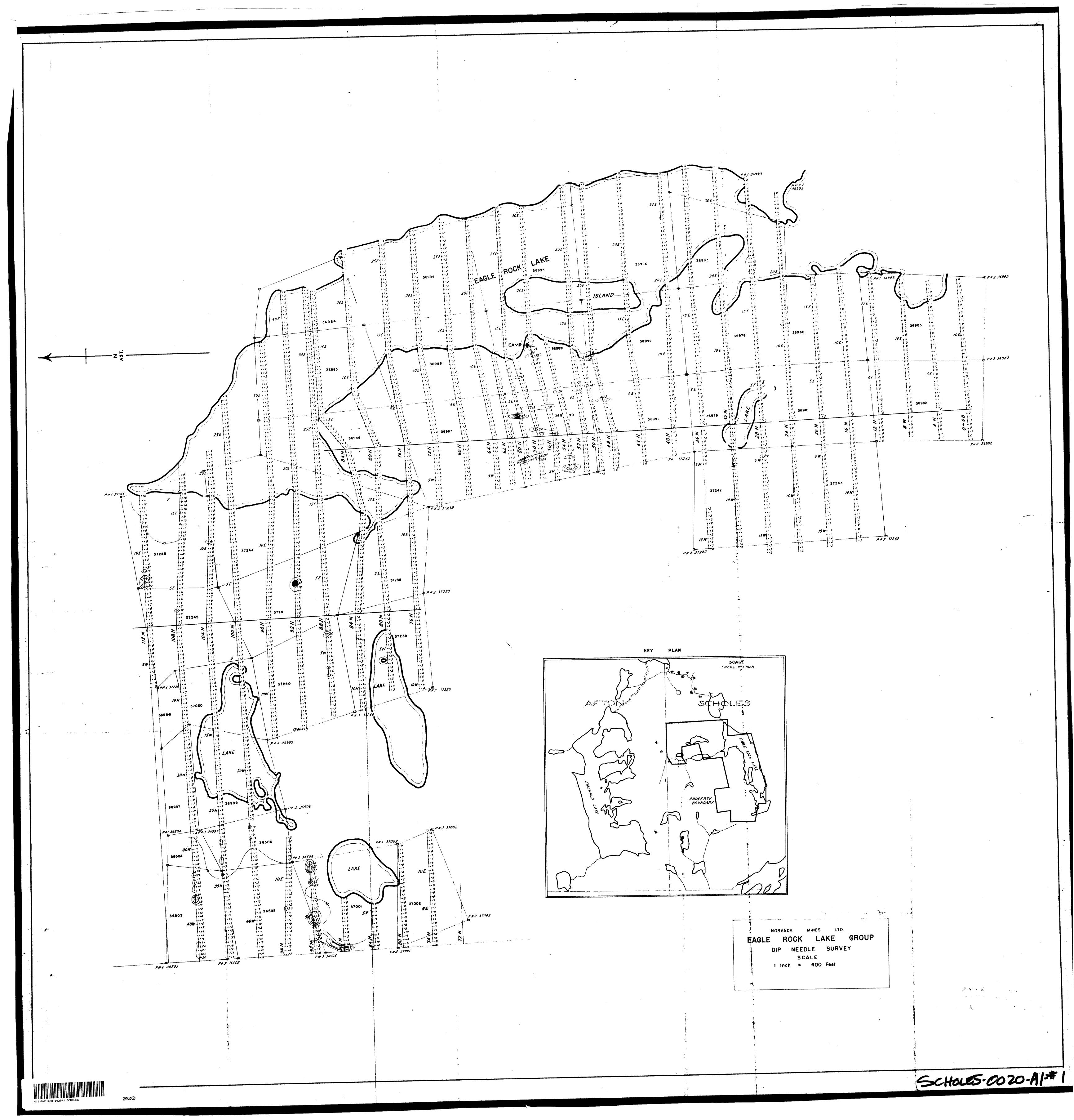
Please return to:

Resident Geologist, Ontario Department of Mines Box 48, Swastika, Ontario.

SEE	ACCOMPANYING	
	IDENTIFIED	
	SCHOLES-0020	
1 80 1113 11 1111111		#2
· · · · · · · · · · · · · · · · · · ·		#3

LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE (X)





37244 37246 37238 37241 3 4 5
Strong conductors occur entirely BASE LINE 37245 37239 37240 37000 **3699**8 KEY PLAN 36997 36506 formation which contains some Chalcopyrile. EAGLE ROCK LAKE GROUP ELECTROMAGNETIC SURVEY SCALE I INCH = 200 FEET 37001 37002 36505 36503 PART "A" ECHOLES-0020-A1.*

