

010

63-676

PROULX OPTION
 LORNE TOWNSHIP
 DISTRICT OF SUDBURY
 ONTARIO



General

A group of eleven unpatented mining claims in Lorne Township District of Sudbury, held by this Company under an option agreement with A. Proulx, Timmins, Ontario, was surveyed by electromagnetic methods during the months of September and October, 1955. These claims are numbered as follows:

S.74225	N.E. 1/4	N. 1/2	Lot 10	Con. V	Lorne Township
S.74226	N.W. 1/4	S. 1/2	Lot 9	Con. VI	" "
S.74227	N.E. 1/4	S. 1/2	Lot 9	Con. VI	" "
S.74228	S.E. 1/4	S. 1/2	Lot 9	Con. VI	" "
S.74229	S.W. 1/4	N. 1/2	Lot 10	Con. V	" "
S.74230	N.W. 1/4	N. 1/2	Lot 10	Con. V	" "
S.74231	S.W. 1/4	S. 1/2	Lot 9	Con. VI	" "
S.74232	N.E. 1/4	N. 1/2	Lot 9	Con. V	" "
S.74233	S.E. 1/4	N. 1/2	Lot 9	Con. V	" "
S.74234	N.W. 1/4	N. 1/2	Lot 9	Con. V	" "
S.74235	S.W. 1/4	N. 1/2	Lot 9	Con. V	" "

Purpose of Survey

The purpose of the survey was to locate electromagnetic conductors that may represent or lead to the discovery of valuable sulphide ores.

Company Conducting Survey

The electromagnetic survey was conducted by technicians employed by Noranda Mines, Limited during the period, September 15 to November 7, 1955.

Results of 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 north-south traverse lines 400 feet apart. Readings accompanied by the letter S represent a receiver coil dip angle southward and those accompanied by the letter N represent a receiver coil dip angle northward. All readings were taken with the transmitter set up at the location indicated by the number at the end

of each line of readings. At stations where the signal was too indistinct or inductive interference blanked out the signal, the station is marked N.R.

In general the survey revealed that the area underlain by the claim group is fairly flat electromagnetically. Two crossovers were obtained in the northeast portion of the claim group, on that portion over which lines were cut at 200 foot intervals.

One crossover, indicating a conductor between lines 12E. and 14E. at 8 to 900 feet south of the baseline, is rather weak, and no indication of the nature of the conductor could be determined although bedrock is well exposed in the conductor area. Because of its weakness it is not considered to be significant.

A fairly strong conductor extends from line 18E. to line 24E. striking N.60°E. about 500 feet north of the base line. Steeper dip angles on the north side of the indicated conductor suggests that the conductor dips northward. As this conductor lies in low, wet ground, no indication of the possible nature of the conductor is observable. A series of strong faults trends in this direction from the southwest portion of the claim group and the conductor is believed to represent one of these faults. As such conductors due to electrolytic solutions along fault planes are common in low wet ground this conductor described above is not deemed worthy of further investigation, which could only be by diamond drilling.

Unfortunately a zone of varying widths along the C.P.R. railway was unreadable with the instrument because of interference both by false results caused by currents induced in steel tracks and fences, and by static interference caused by telegraph and telephone lines along the right of way. This zone is indicated on the map by stations marked N.R. (no reading).

Instrument and Sensitivity

The instrument used on the electromagnetic survey was a McPhar E.M. 1,000 cycle ground unit capable, with the large transmitter used, of a 2,500 foot range. The E.M. unit consists of a transmitter assembly and a receiver assembly.

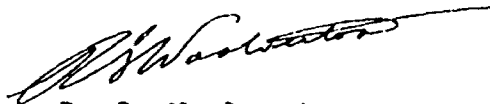
Stations Established

Eight transmitter stations were established, and receiver stations were set up at 100 foot intervals along traverse lines 400 feet apart. Over the showing area in the northeast part of the property, traverses were made at 200 foot intervals. For the eight large coil transmitter stations established, 543 receiver stations were established.

General Geology

The main portion of the claim group is underlain by medium to coarse grained gabbro which is intrusive into quartzite of probable Mississagi age. The quartzite outcrops as a narrow strip along the hill facing north toward the railway tracks, and the formation strikes about N.70°E. and dips steeply northward. North of this hill, which is a prominent feature of the landscape, the claims are underlain by swamp and stream and a heavy overburden of sand and gravel. No outcrops of bedrock occur north of the railway on the claim group.

Respectfully submitted,



R. S. Woolverton.

RSW:s
Dec. 28/55.

STATEMENT OF WORK
 PROULX OPTION
 LORNE TOWNSHIP
 DISTRICT OF SUDBURY

<u>Line cutting, chaining and Picketing</u>		
Eiler Maki, Worthington, Ontario		
September 16 - October 13, 1955		26
<u>Instrument Work</u>		
<u>Operator:</u>	R.M. Davidson, Winnipeg, Manitoba	
	September 16 - November 1, 1955	39
 <u>Assistant:</u>	K. Weiler, Sudbury, Ontario	
	September 16 - November 1, 1955	39
<u>Consultation and Supervision</u>		
R. S. Woolverton, Don Mills, Ontario		
September 15 - November 7, 1955 (equivalent 8 hour days)		5
<u>Field Draughting</u>		
R.M. Davidson (equivalent 8 hour days)		3
<u>Office Draughting</u>		
B.A. Shaw, Toronto, Ontario		
November 1 - 4, 1955		4
<u>Report Preparation</u>		
R. S. Woolverton, Don Mills, Ontario		
November 8 - 9, 1955		<u>2</u>
Total 8 hour man days		118
Assessment work days	118 x 4 =	472
Assessment work per claim	$\frac{472}{11} =$	42.9
Amount submitted per claim		<u>40</u>

Certified by

R.S. Woolverton

Geologist.

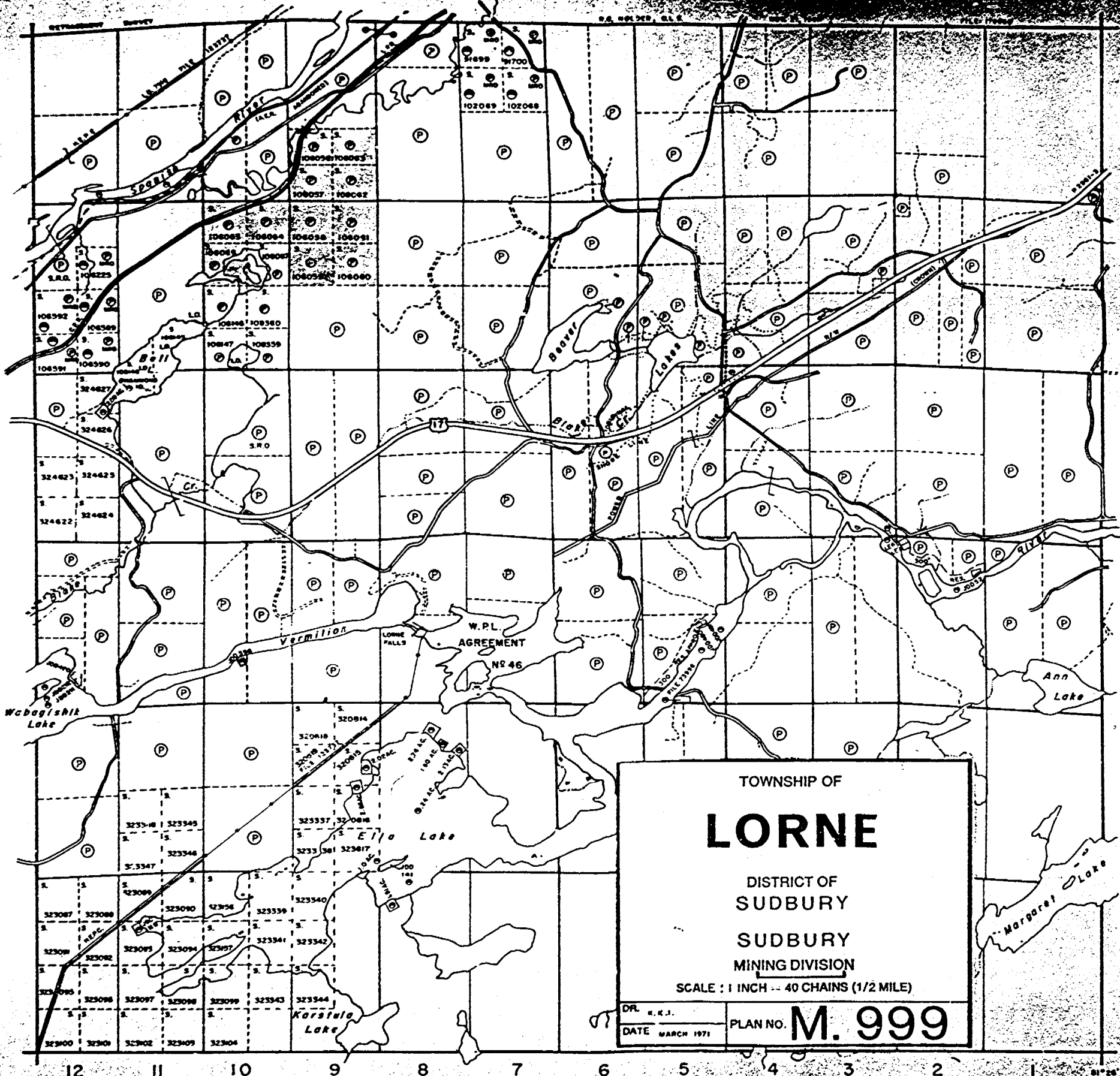
RSW:s

DRURY TWP. M. 765

NAIN TWP. M. 883

LOUISE TWP. M. 998

TRUMAN TWP. M. 1164

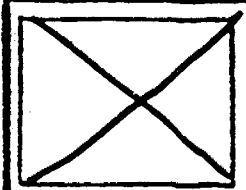


TOWNSHIP OF
LORNE
 DISTRICT OF
 SUDBURY
 SUDBURY
 MINING DIVISION
 SCALE : 1 INCH = 40 CHAINS (1/2 MILE)

DR. K.K.S.	PLAN NO. M. 999
DATE MARCH 1971	

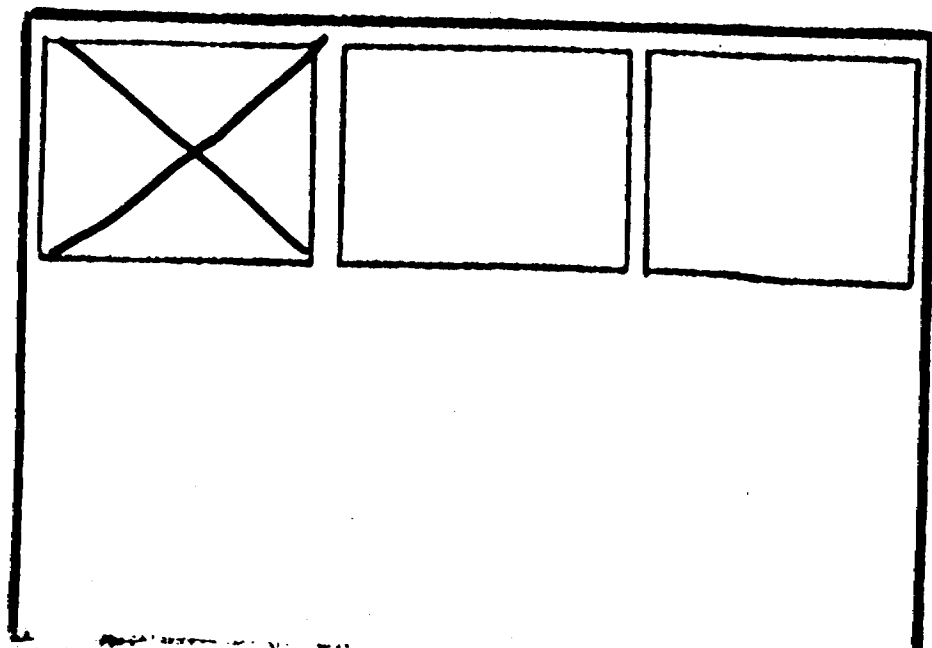
SEE A
 MAP(S) -
LORNE

 LOCATED
 CHANNEL
 SEQUENCE



SEE ACCOMPANYING
MAP(S) IDENTIFIED AS
LORNE-0013-A1 #1

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



NORANDA MINES, LTD.
ELECTROMAGNETIC SURVEY

PROULX OPTION
LORNE TOWNSHIP
District of Sudbury

SCALE
1 INCH = 200 FEET

NOVEMBER 1955

R.M.D./bos



LEGEND

- TRANSMITTER LOCATION
- CROSS-OVER
- NR NO READING - IN AREAS UNSUITABLE FOR E-M SURVEY DUE TO RAILS, TELEGRAPH LINES AND FENCES

