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MAGNETOMETER SURVEY

FUNDY BAY COPPER MINES LIMITED

BALDWIN AND MAIRN TOWNSHIPS

PROVINCE OF ONTARIO

REPORT NO. 5651

September 14, 1956.

Geo-Explorers Ltd., Toronto, Ontario.

INDEX

63.791

MAGNETOMETER SURVEY
FUNDY BAY COPPER MINES LTD.
BALDWIN AND NAIRN TOWNSHIPS
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SUMMARY

Two possible weak fault zones have been located. Prospecting of these zones is the only follow up work recommended.

INTRODUCTION

The property was acquired due to the current interest in nickel and a magnetometer survey conducted to locate any nickeliferous pyrrhotite bodies that may be present.

THEORY OF SURVEY

Varying amounts of magnetite in different rocks near the earth's surface produce measureable differences in the earth's magnetic field. By measuring these differences the underlying rock structure can often be inferred even though covered with overburden.

Occasionally the structure containing the sulphides can be determined from the magnetometer survey. The results can also be used as a guide to the presence of pyrrhotite and varying rock types.

In this area the sulphides are usually magnetic due to their pyrrhotite content. The pyrrhotite is nearly always associated with the ore.

LOCATION AND ACCESS

The property is easily accessible by road from the town of Espanola, Ontario as a road runs south from highway 17 through the property. This is illustrated in Figure 1.

METHOD OF SURVEY

Picket lines were cut at 200 foot intervals being turned from a township line in a direction perpendicular to the strike of any ore bodies that are assumed to be present. Magnetometer readings were taken at 100 foot intervals. One high magnetic anomaly was tested by an electromagnetic test to determine if there was anything of good conductivity associated with the anomaly.

GEOPHYSICAL INTERPRETATION

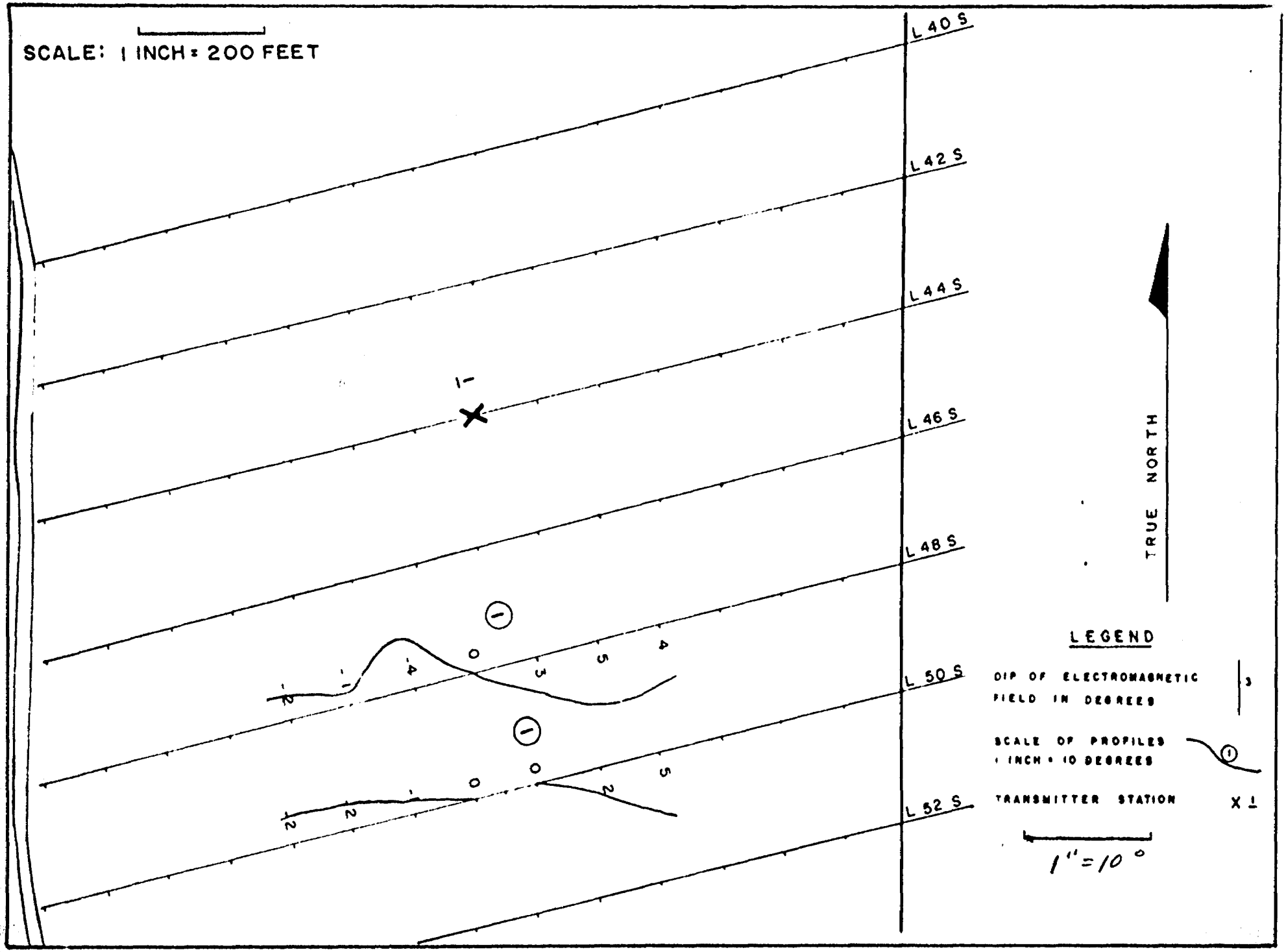
The electromagnetic tests were made on the magnetic anomaly but did not indicate the presence of any conductor. The high values constitute a wrong way crossover and appear to be produced by topography rather than any conductor.

There is a slight alignment to a series of weak highs in two places on the property. This could be a coincidence although not likely.

These linears may represent two weak fault zones.

CONCLUSIONS AND RECOMMENDATIONS

There are two lines of weak highs which could be caused by faulting. The indications are not strong enough



ELECTROMAGNETIC DETAIL AREA

FIG. 1

to warrant any further work than surface examination of these zones where feasible.

RESPECTFULLY SUBMITTED,

D. J. Salt,
Geophysical Consultant.

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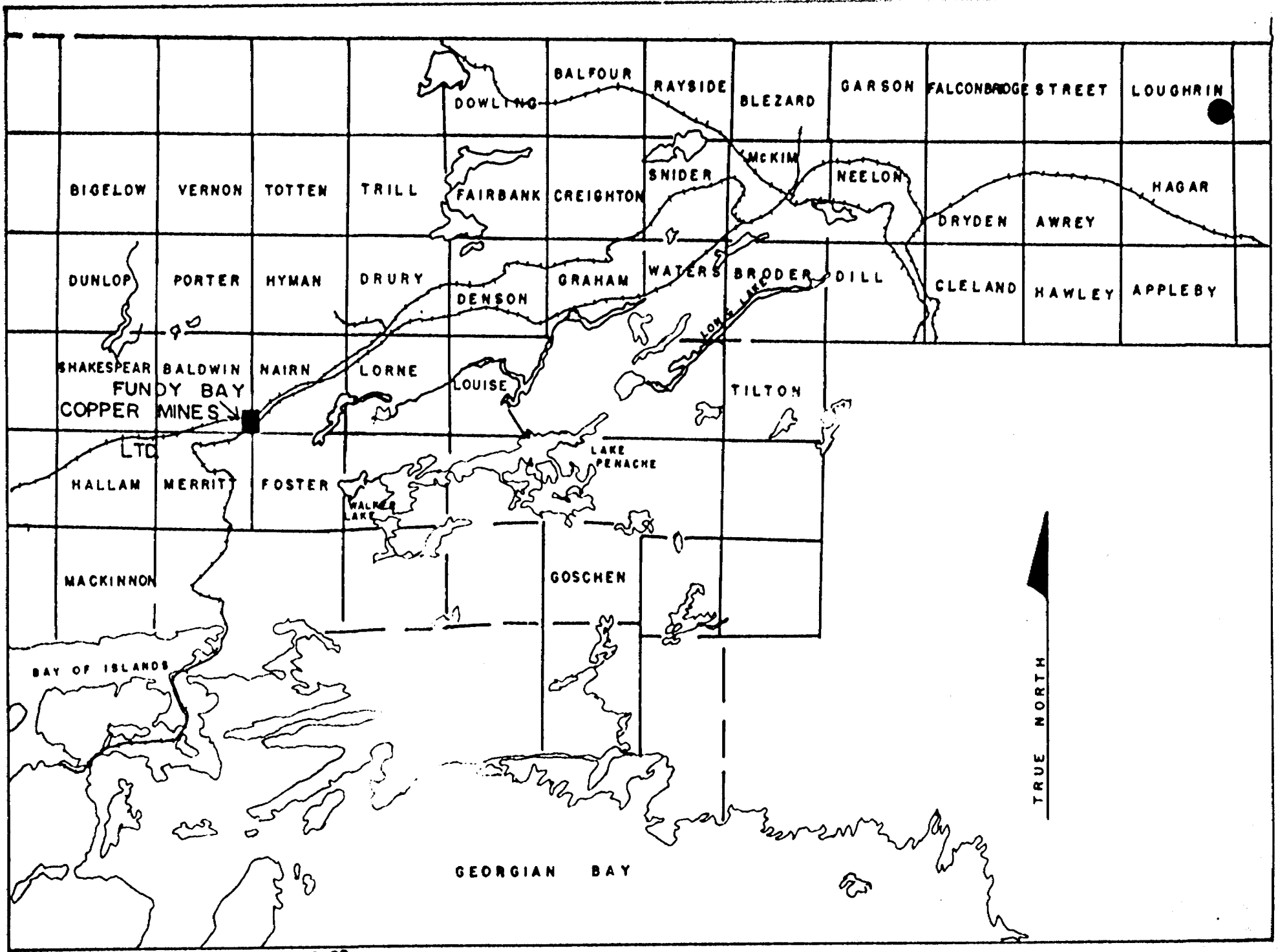
BOX 452
NORANDA. QUE



SCALE: 1 INCH = 7.89 MILES $\frac{7.89 \text{ miles}}{1" = 7.89}$

LOCATION MAP

FIG. 1

APPENDIX

Distribution of Work Done on Survey.

Period August 15 to September 3, 1956.

Instrument man	
Mr. S. Morrell, RR# 3, St. Stephen, New Brunswick	10 days
Assistant	
Mr. L. Kearney, Clericy, Quebec	10 days
Line Cutters	
Mr. S. Morrell, RR# 3, St. Stephen, New Brunswick	4½ days
Mr. L. Kearney, Clericy, Quebec	4½ days
Geophysicist	
Mr. D. J. Salt, 307 Ellerslie Ave., Willowdale, Ont.	2 days
Draftsman	
Mrs. P. Tays, 36, 15th Street, Noranda, Quebec.	2 days
Typist	
Miss M. Bibeau, 271-B Main Street, Rouyn, Quebec.	1 day
	34 man days

Total time applicable for assessment work 34 x factor 4 = 136 man days

This figure does not cover all of the line cutting but only a part of it carried out by our staff.

APPENDIX

Miles of geophysical work 10.4

No. of readings taken 670

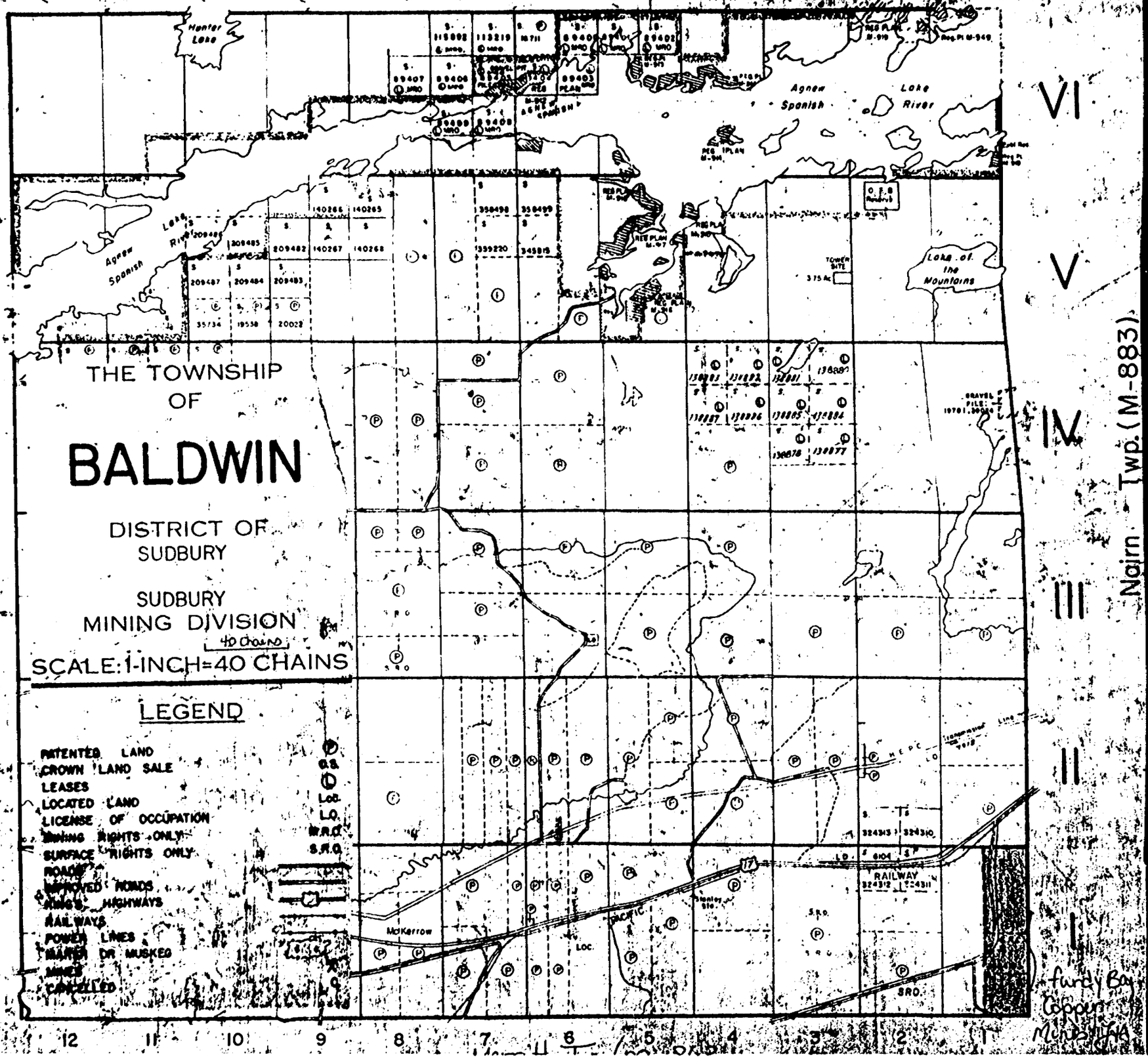
Instrument used: Watt vertical force variometer with a scale constant of 22.6 gammas per division.

Base Stations: were at 00N and 5200S on the base line.

To obtain approximate value of earth's vertical field add 59,600 gammas.

900

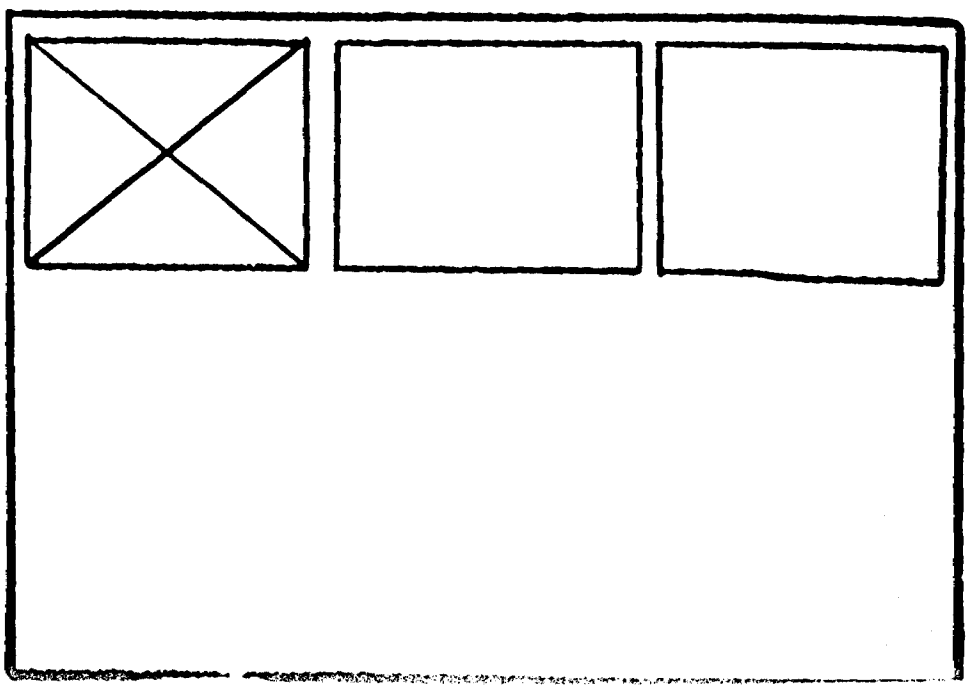
Porter Twp. (M-1061)

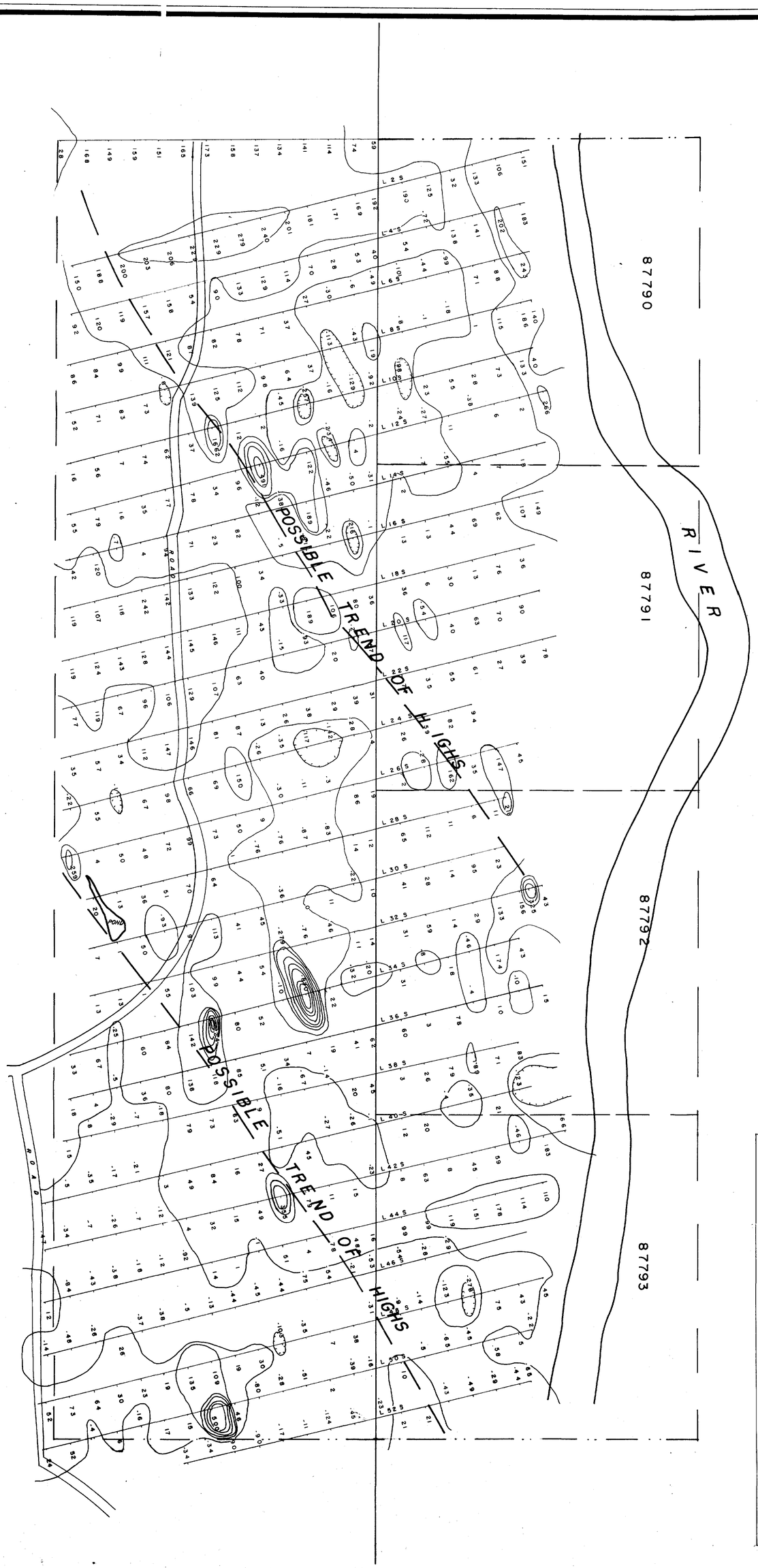


SEE ACCOMPANYING MAP(S) IDENTIFIED AS

BALDWIN-0030-AL,#1

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





MAGNETOMETER SURVEY

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BALDWIN AND NAIRN TOWNSHIPS

PROVINCE OF ONTARIO

AUGUST 15, 1956

SCALE

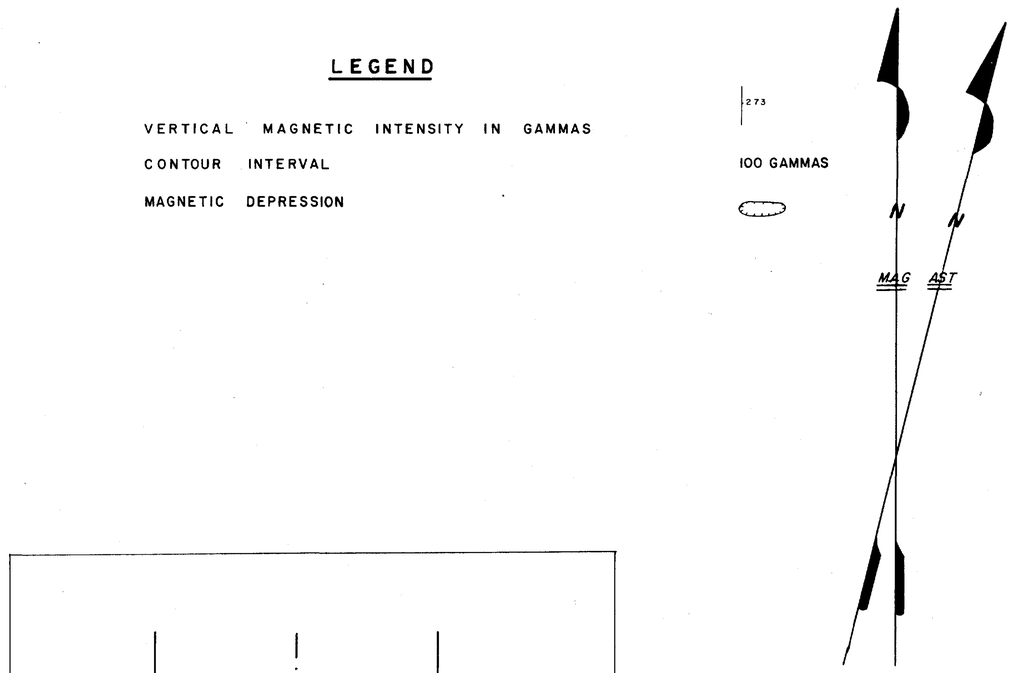
FEET 0 200 400 1200 FEET

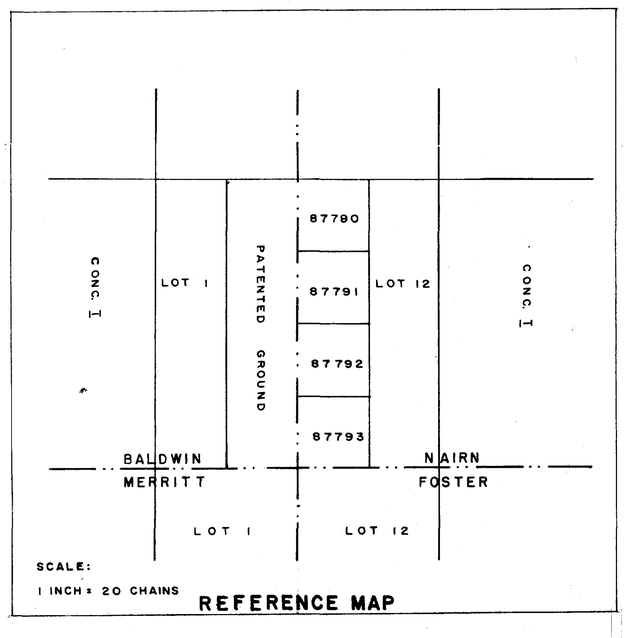
LEGEND

VERTICAL MAGNETIC INTENSITY IN GAMMAS

CONTOUR INTERVAL — 100 GAMMAS

MAGNETIC DEPRESSION





REFERENCE MAP

PRESENTED BY:

GEO-EXPLORERS LIMITED

D.J. SALT

GEOPHYSICAL CONSULTANT

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