



31M05NE0419 63.306 COLEMAN

010

REPORT ON GE

OF PART OF  
SASAGINAGA LAKE  
(Hermiston-Benner Option)

INTRODUCTION

An electrical (resistivity) and a magnetic survey were made of the Hermiston-Benner claims on Sasaginaga Lake during April, 1952. The area surveyed comprises three unpatented claims totalling approximately 80 acres.

LOCATION & ACCESS

Sasaginaga Lake is located on the west side of the town of Cobalt, in the north part of Coleman Township. The area surveyed includes the central part of the lake. The property may be reached readily by road.

GENERAL GEOLOGY

Sasaginaga Lake is underlain by Keewatin-type rocks. These include intermediate to basic flow rocks and banded chert formation. The western contact of the Cobalt sedimentary series lies a short distance east of the lake.

GEOPHYSICAL SURVEY

Picket lines were turned off normal to an east-west baseline at intervals of 200 feet for the electrical survey. Sixty cycle alternating current was applied to the ground and measurements of potential difference were taken using a highly sensitive V.T.V.M..

Magnetometer readings were taken along lines spaced 400 feet apart using an Askania vertical magnetometer.

DISCUSSION OF GEOPHYSICAL RESULTS

Two zones of high conductivity were indicated by the electrical survey. One of these lies along the south boundary of the claims and is

2.

mainly off the property. A second east-west zone runs east from the long bay in the western part of the lake. The highest conductivities were obtained at the extreme western end of the bay. The results at this point suggest good concentrations of conducting minerals probably sulphides. The good conducting zone lies along the projection of an east-west fault noted east of the lake. Although a silver vein would be a good conductor it is improbable that this is the cause of the anomaly since the electrical results suggest a body many times wider than the widest veins in the camp. This does not however, preclude the possibility of the occurrence of silver associated with base metal sulphides along a fault zone.

A possible cross-fault is suggested in the western part of the claims by discontinuities in the electrical results. There is no geological evidence to support this interpretation.

Magnetic relief is very low in the area covered by the magnetometer survey. This part of the work adds very little to the interpretation of the electrical results.

#### RECOMMENDATIONS

It is recommended that the strongly conducting zone in the western part of the property be explored by diamond drilling.

Respectfully submitted,

MINING GEOPHYSICS CORPORATION LIMITED



W.R. Bergey



N. B. Keevil

Toronto,  
June 9, 1952.

APPENDIX

Property: Sasaginaga Lake, Hermiston-Benner Option,  
comprising 3 claims, T-31767 to T-31769 incls.

Dates of Survey: Surveying - including picketing  
and chaining, March 3 - 5 - 4 days

Electrical measurements, March 4 - 9 - 10 days

Magnetic measurements, Mar. 4 - 6 - 4 days

Calculating, plotting, mapping,  
interpretation, Apr. 1 - 30 inter-  
mittently - 15 days

---

Baseline & Picket Lines: 31

Baseline - east-west  
Picket lines - northsouth at 200 foot intervals

Miles of Line: Picket Lines - 3 3/4 miles  
Electrical Resistivity - 3 1/4 miles  
Geomagnetic - 2 miles

Instruments Used: Surveying - Transit  
Electrical Resistivity - M.G.C. Resistivity unit and  
V.T.V.M.  
Geomagnetic - Askania magnetometer with sensitivity of  
25 gammas per scale division.

Personnel: Surveying - J.C.Frantz, T.M.Church  
Electrical - W.R.Bergey, I.Schafer  
Magnetic - T.G.Robinson, W. Hanson  
Office - N.B.Keevil, W.R.Bergey, R.B.Evis,  
M.G.Hooper.

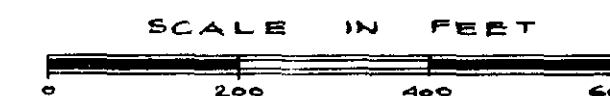
June 9, 1952.


  
N. B. Keevil

$$\frac{31 \times 4}{3} = \frac{124}{3} = 40$$

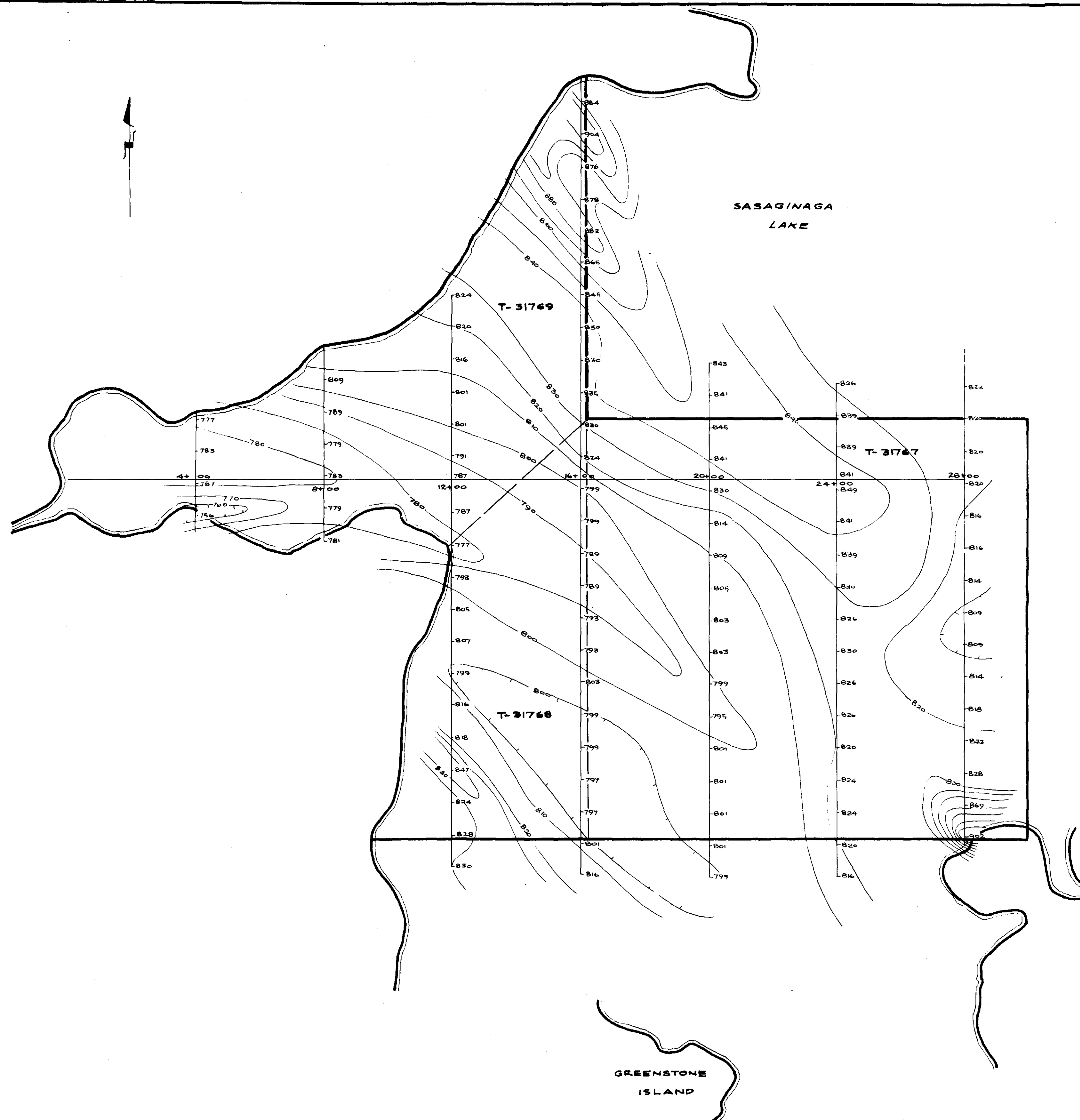


MAGNETIC SURVEY  
OF PART OF  
**SASAGINAGA LAKE**  
HERMISTON - BENNER OPTION

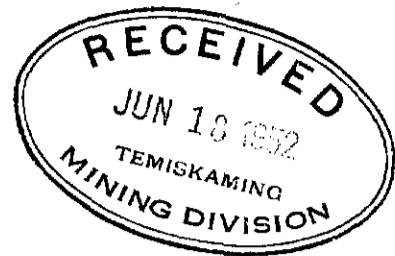


**MINING GEOPHYSICS**  
CORPORATION - LIMITED  
11 JORDAN ST.  
TORONTO, ONT.

DRAWN BY: <i>R.B.C.</i>	DATE: <i>June 9/52</i>
TO COMPANY REPORT: <i>325</i>	COPY NO. <i>4/2</i>

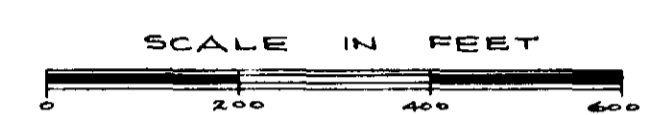


31M5NE0419 63.386 COLEMAN



ELECTRICAL SURVEY  
OF PART OF  
**SASAGINAGA LAKE**

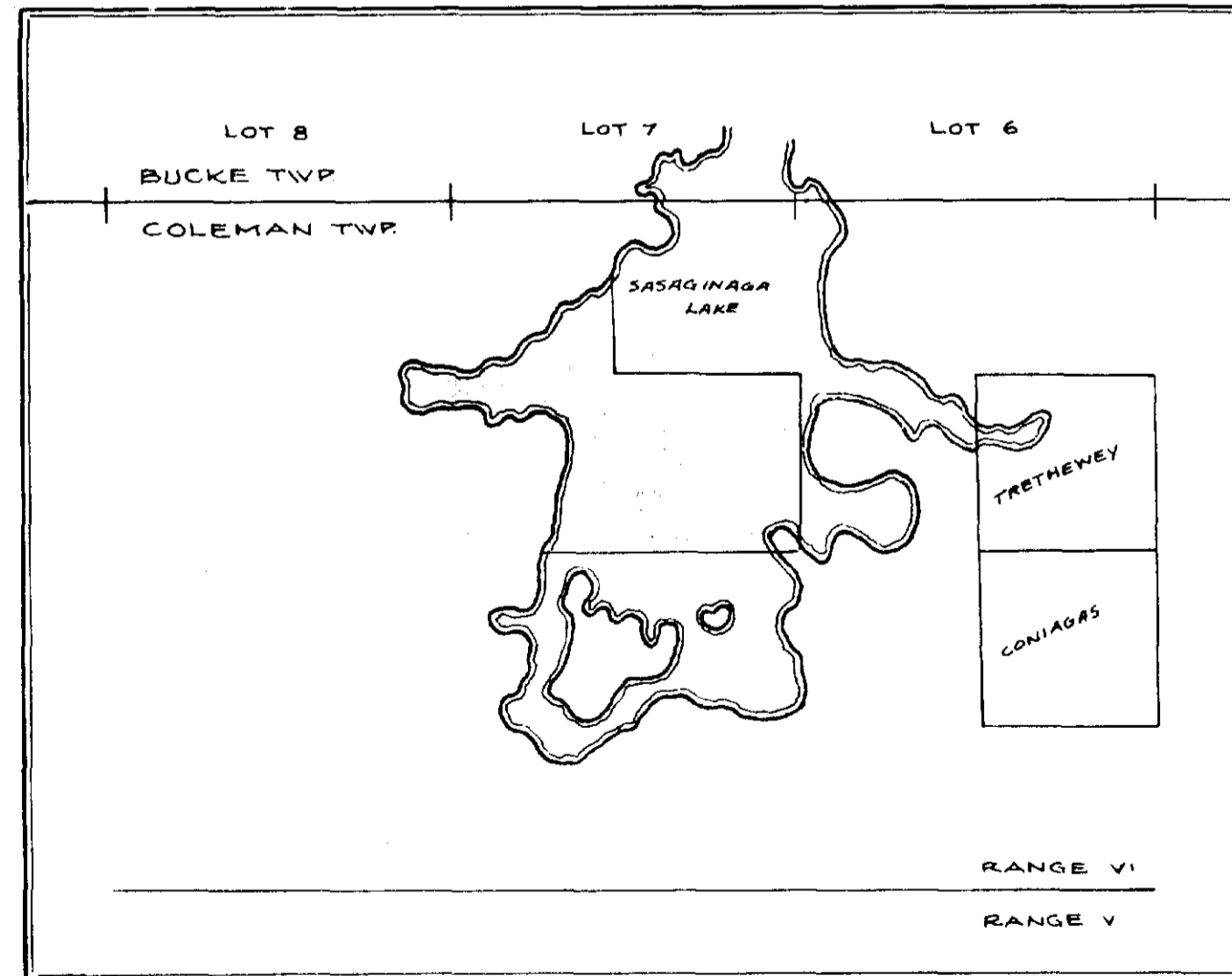
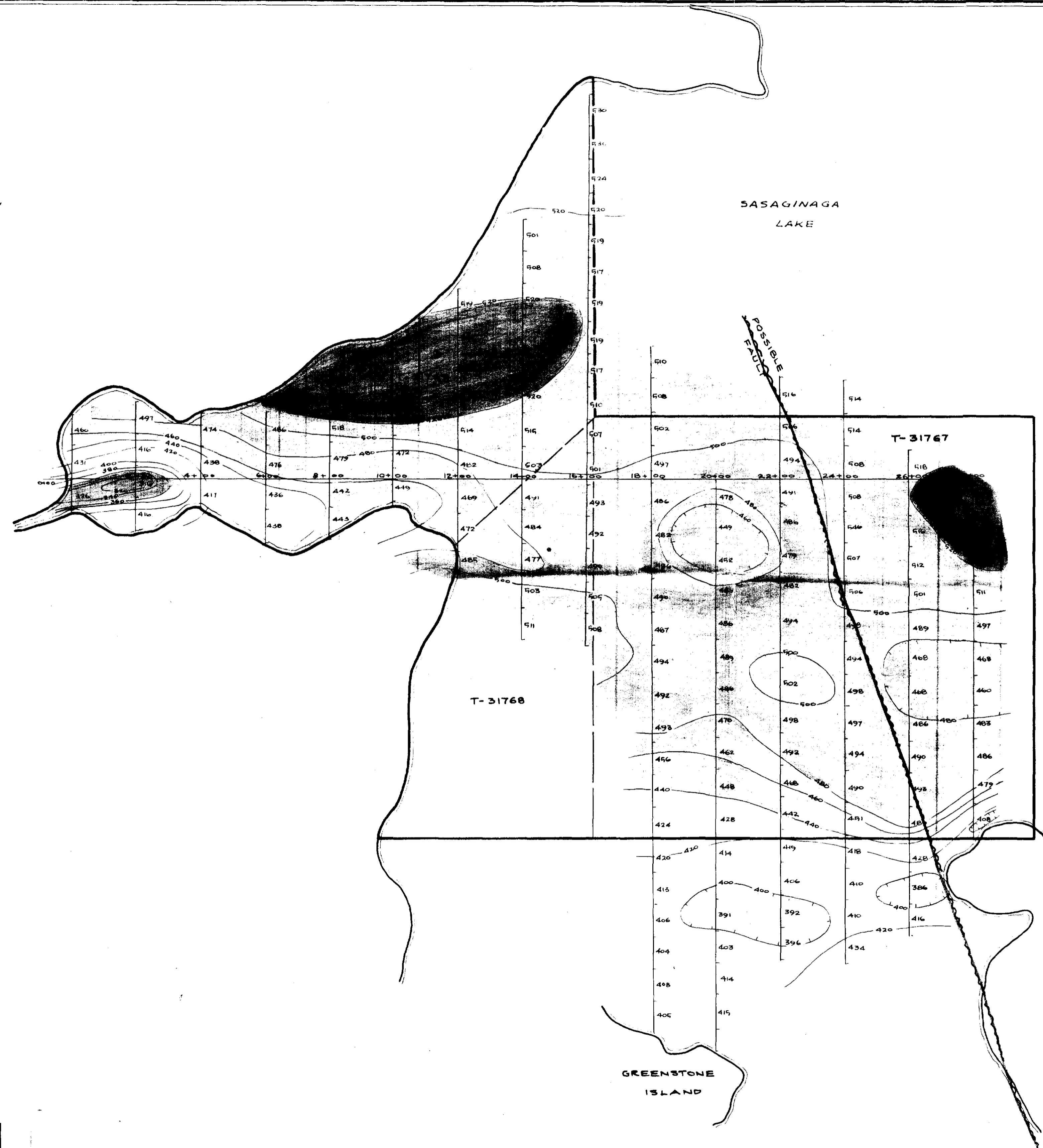
HERMISTON - BENNER OPTION



NOTE:- VALUES ARE 100 log<sub>10</sub> ohm-cm

**MINING GEOPHYSICS**  
CORPORATION - LIMITED  
11 JORDAN ST.  
TORONTO, ONT.

DRAFT: RBE	DATE: June 11/52
TO ACCOMPANY REPORT: 325	LOFT'S: 3/1



LOCATION MAP  
SCALE 1 INCH = 1320 FEET

