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SHARPE GEOPHYSICAL SURVEYS LIMITED

SUITE 901 - 330 BAY STREET
TORONTO 1, ONTARIO

FIELD OFFICE:
BATHURST, N.B.

TELEPHONE:
EMPIRE 6-3261

REPORT ON MAGNETOMETER AND SCINTILLONETER SURVEY ON PROPERTY OF TUSTIN MINES LIMITED IN TUSTIN TOWNSHIP, KENORA AREA, ONTARIO

The following report is based upon the results of a magnetometer and scintillometer survey carried out by Sharpe Geophysical Surveys Limited on a property of Tustin Mines Limited in Tustin Township in Kenora Area, Ontario. The survey was carried out between October 10th, 1957, and November 22nd, 1957 on claims K17781 to K17792 inclusive.

A Sharpe magnetometer, with scale constant of approximately 22 gammas per division was used in this survey. Lines were cut at nominal 300-foot intervals, oriented north-south and readings were taken at 100-foot intervals along these lines. Appropriate corrections were made to these readings for the diurnal variations of the magnetic field.

The purpose of the present survey was primarily to supply information of a structural nature concerning rocks underlying this property; also the direct detection of magnetite concentration - magnetite being closely associated with the radioactive areas.

PROPERTY

The property surveyed consists of the following claims - K17781 to K17792 inclusive. These claims are located on No. 17 Highway approximately 27 miles due east of Kenora.

GENERAL CONCLUSIONS & RECOMMENDATIONS

Radioactive occurrences seem to be concentrated in a belt running in an east-west direction which follows the No. 1 base line, swings south-east and follows the south shore of Bee Lake, on two locations on Line 26E and Line 52E. The readings obtained by scintillometer gave in the vicinity of 15 times the background and on Line 20E and 100 feet north of No. 1 base line a reading of 25 times background was obtained. On Line 26E, starting at 250 feet south of base line No. 1, a wide belt of radioactive readings were obtained for a width of 300 feet. The readings were in order of five times the background.

DISCUSSION OF RESULTS

The accompanying plan maps are on a scale of 1 inch equals 200 feet. The magnetometer map shows the distribution of the vertical magnetic field values and the contours which are deduced therefrom. The base level of the readings may be taken as approximately 3450 gammas.

The scintillometer plan map shows radioactive distribution in milliroentgens per hour and the base can be taken at .04 to .05 as average. There are five occurrences on the property where the radioactivity is five times the background.

The anomalous areas are marked in order of their importance and are designated by letters "A", "B", "C", "D" and "E". Anomaly "A" shows a strike length of approximately 1500 feet and a width of up to 100 feet.

Anomaly "B" shows a strike length of 500 feet and open at east end which is covered by water and has width of up to 250 feet.

Anomalies "C", "D" and "E" are in the order of four times the background and seem to be of small order and isolated.

It is recommended that drilling should be done on the property and drill holes are laid out on the plan maps as follows:

- Line 20 - on base line - drill north
- Line 16E - approximately 75 feet south of base line - drill north
- Line 12E - approximately 225 feet south of base line - drill north
- Line 8E - approximately 25 feet south of base line - drill north

On anomalies "B", "C" and "D" trenching should be done prior to drilling if possible.

Respectfully submitted,

SHARPE GEOPHYSICAL SURVEYS LIMITED,

Walter J. Sharpe
Walter J. Sharpe,
President.

WJS:ar

Toronto, Ontario

November 26th, 1957.

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Assessment details for a Magnetometer and a
Scintillometer survey on the Property of Tustin
Mines Limited, Tustin Township, Kenora District,
Ontario.

Claim Nos. K-17781 to K-17792 inclusive.

MAGNETOMETER & SCINTILLOMETER SURVEYS.

3 man crew - 31 days = 93 man days

Line Cutting

3 man crew - 6 days = 18 man days

Office Work

3 men - 4 days = 12 man days

TOTAL 123 man days

123 x 4 = 492 man days.

Field Staff

Paul Morra - North Bay, Ont. - October 15th to Nov. 20th, 1957
H. Sefton - Bathurst, N. B. - October 15th to Nov. 20th, 1957
R. Taylor - Bathurst, N.B. - October 15th to Nov. 20th, 1957.

Office Staff

W. J. Sharpe - Toronto, November 21st to November 24th, 1957
C. A. Harris - Toronto, November 21st, to November 24th, 1957
J. Scott - Toronto, November 21st, to November 24th, 1957

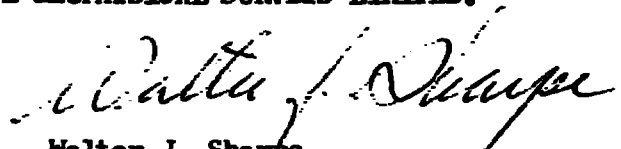
Survey dates - October 21st to November 20th, 1957

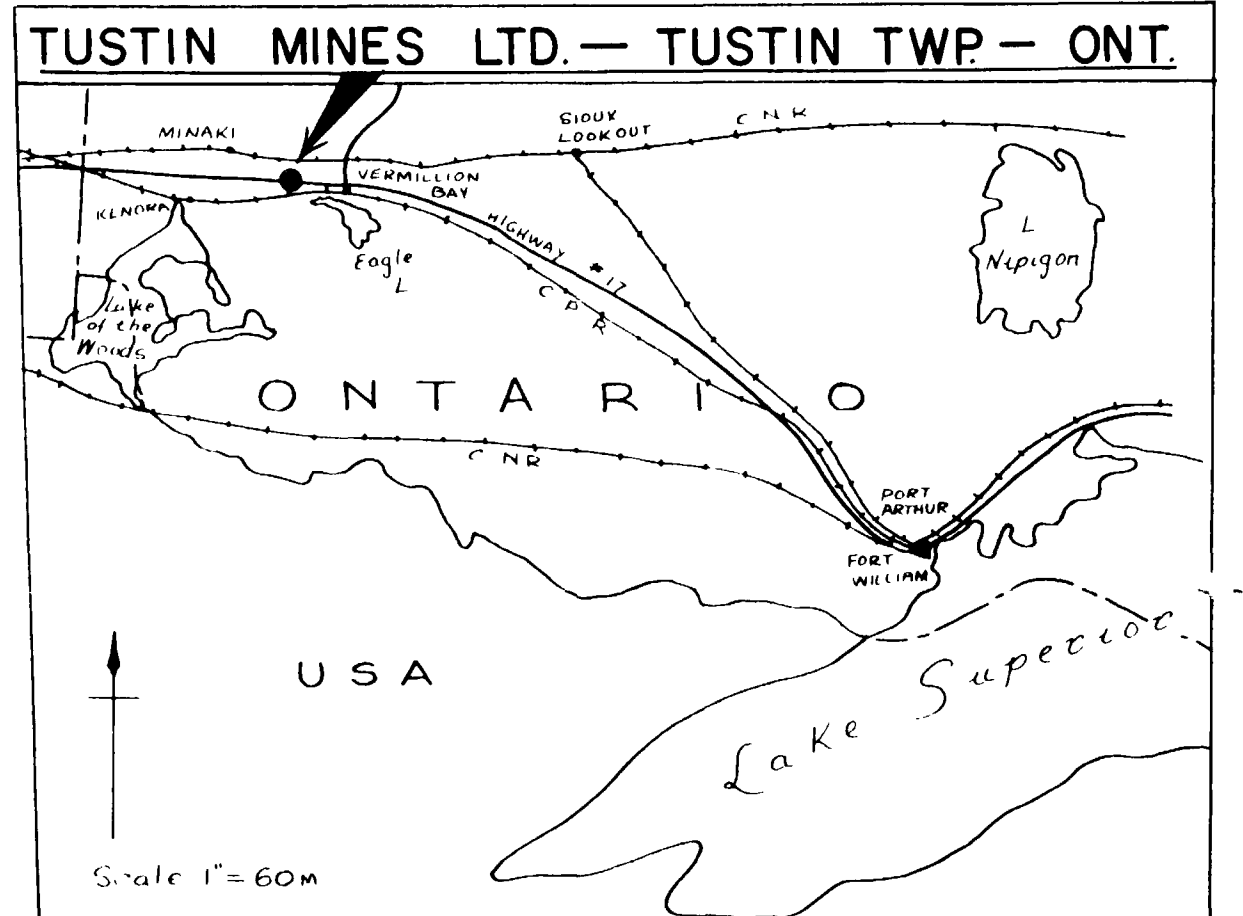
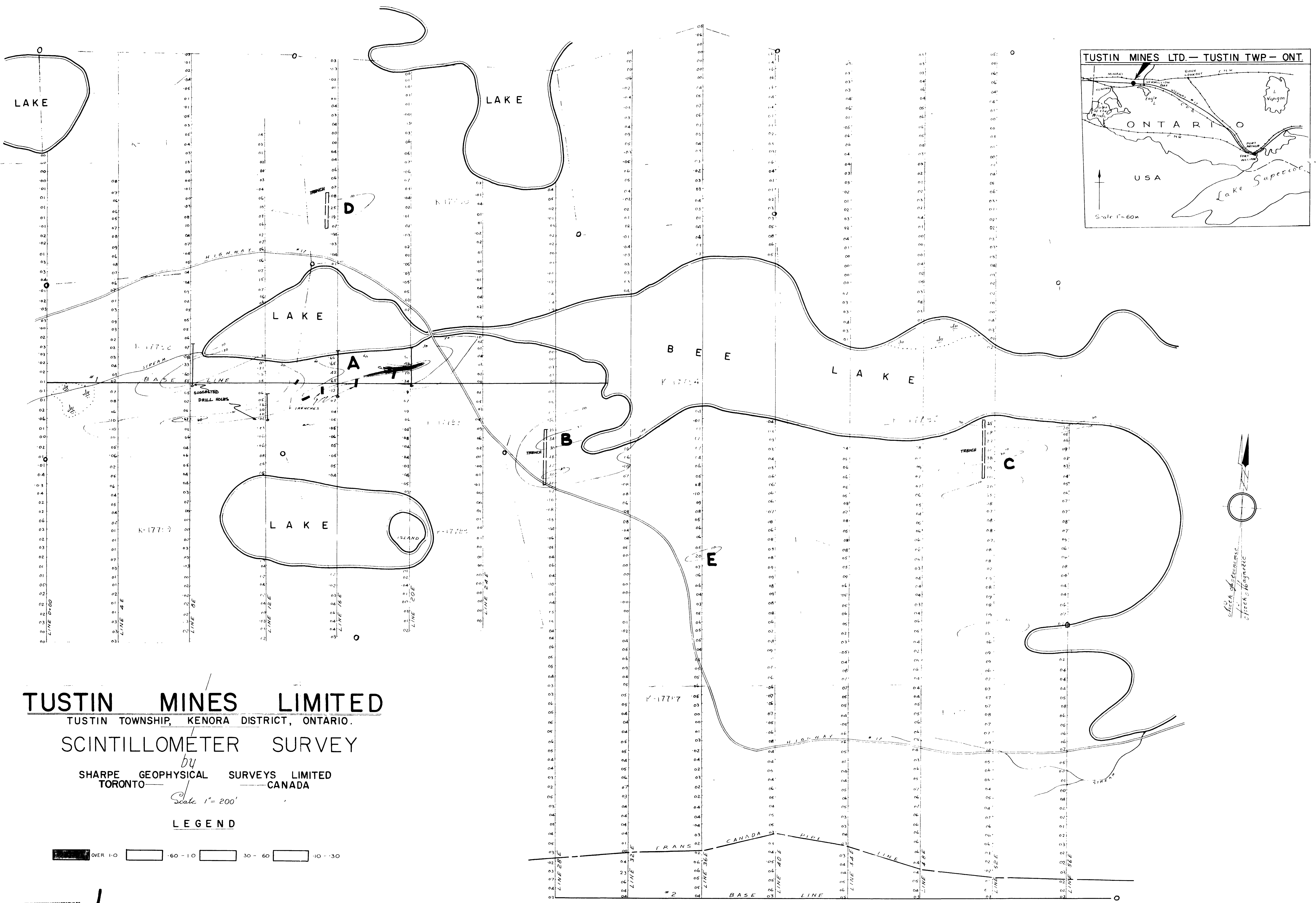
Linecutting - October 15th to October 20th, 1957

Miles of Line Surveyed - 7.6 miles each survey - Total 15.2

T-245
November 25th, 1957.

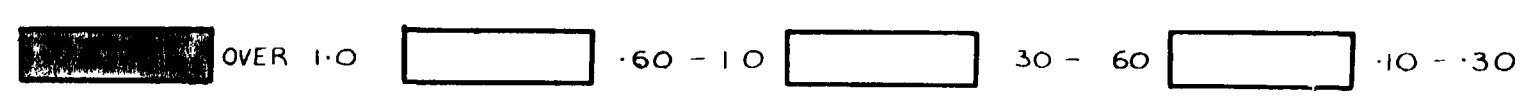
Respectfully submitted,
SHARPE GEOPHYSICAL SURVEYS LIMITED.


Walter J. Sharpe.
President.

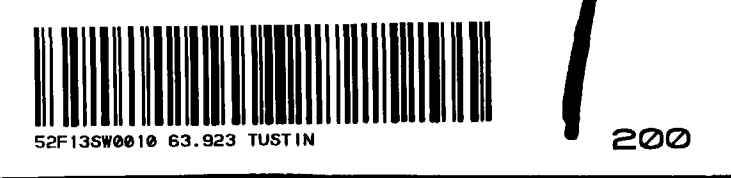


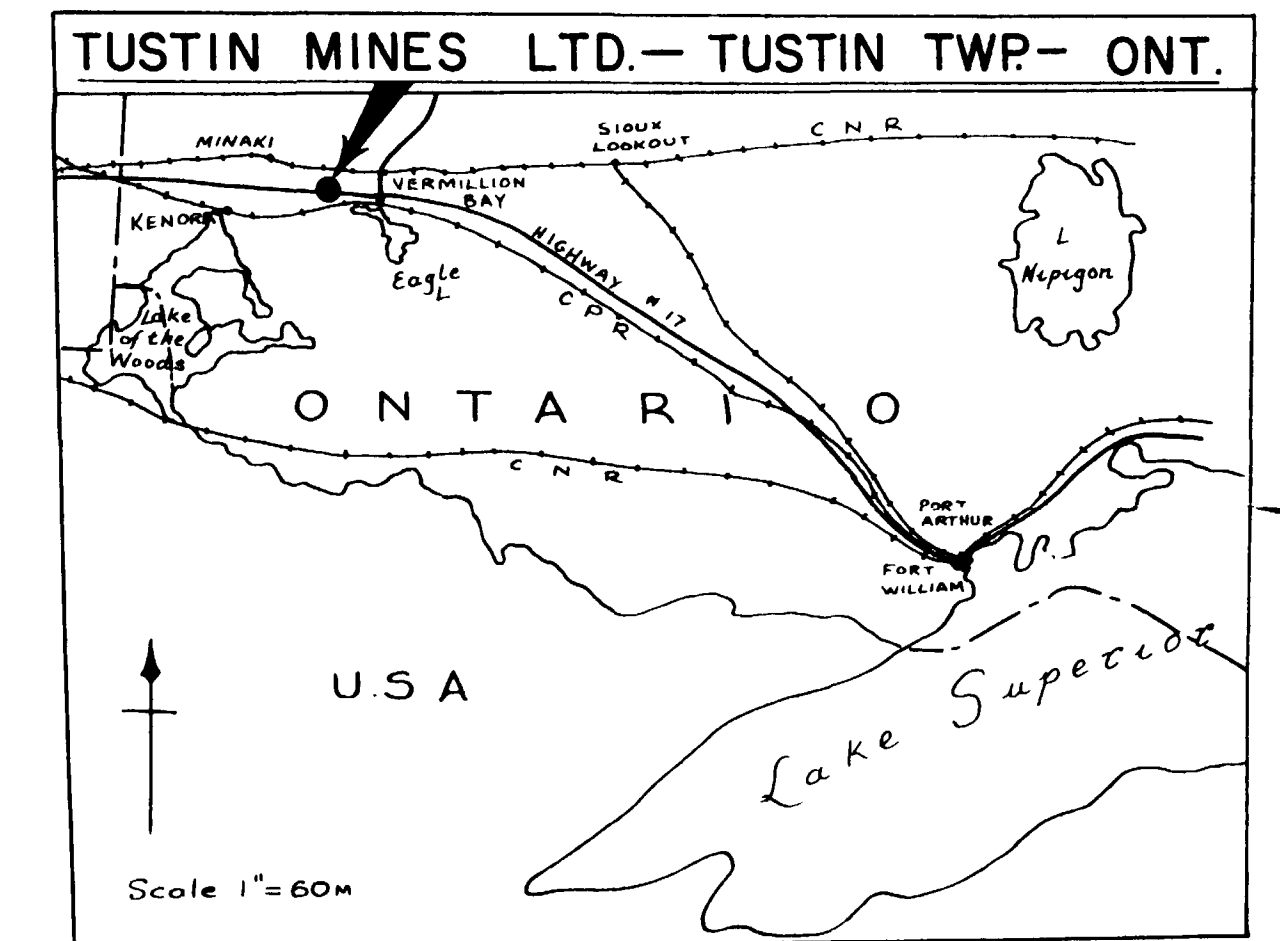
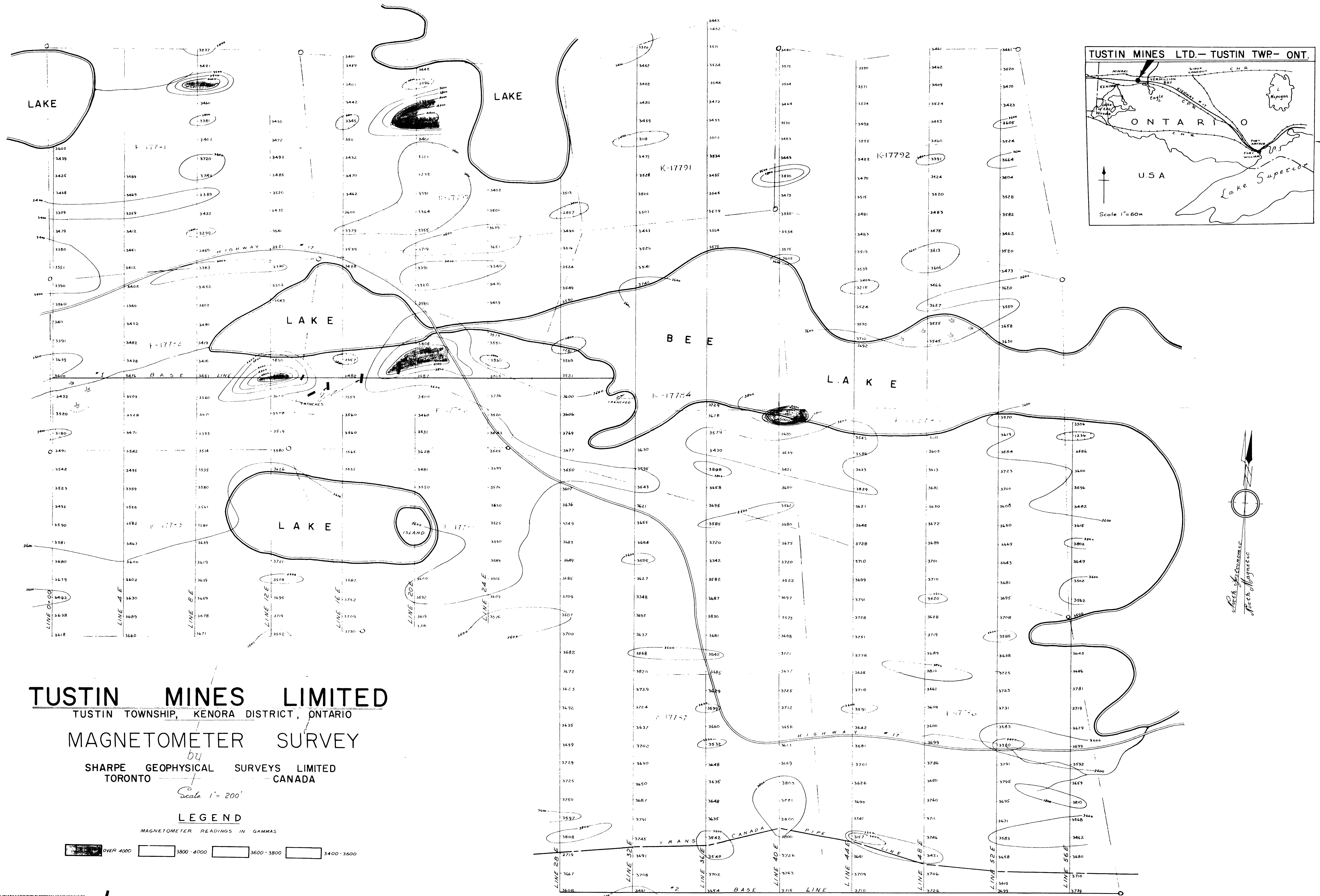
TUSTIN MINES LIMITED
 TUSTIN TOWNSHIP, KENORA DISTRICT, ONTARIO.
SCINTILLOMETER SURVEY
 by
SHARPE GEOPHYSICAL SURVEYS LIMITED
 TORONTO CANADA
 Scale 1" = 200'

LEGEND



Checked by
 J. E. WILSON
 J. F. WAGNER



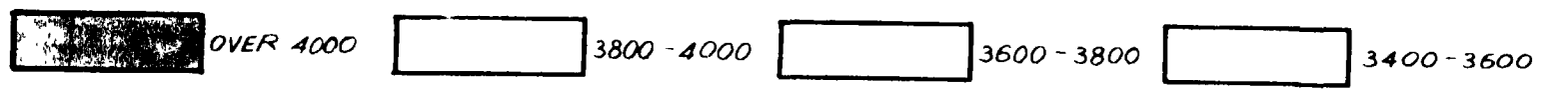


TUSTIN MINES LIMITED
 TUSTIN TOWNSHIP, KENORA DISTRICT, ONTARIO
MAGNETOMETER SURVEY
 by
 SHARPE GEOPHYSICAL SURVEYS LIMITED
 TORONTO - CANADA

Scale 1" = 200'

LEGEND

MAGNETOMETER READINGS IN GAMMAS



Check for
 Rock Magnetism
 North Magnetic

