



41P01NE0001 63.1818 ASTON

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INTRODUCTION

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Keevil Mining Group Limited's Derosier Option consists of a number of contiguous claims two of which are being applied for assessment credits. They are claims T-55445 and T-55446.

The claims were optioned from the recorded owner D. Derosier in order to explore copper showings in the area.

Exploration work consisting of line cutting and geophysical surveys were carried out during the period October 20th to December 2nd, 1965.

LOCATION AND ACCESS

The claims are located at the extreme north end of the North Arm of Lake Temagami east of Ferguson Bay and straddle the Aston and Cynthia Township line. Access is by boat 13 miles north of Copperfields Mining Co. which is accessible by car from highway #11 4 miles south of Temagami Townsite. In the winter months the property can be reached by ski doo.

DESCRIPTION OF SURVEYS

A grid totalling approximately 3 miles of line was cut from a base line oriented N 5°E. Lines were cut at 200-foot intervals east of the base line.

A magnetometer survey was done with a Sharpe Fluxgate Model M.F.1 magnetometer having a constant of 20 gammas per scale division. Readings were taken at 100-foot intervals along all the picket lines with fill-in readings at 50-foot intervals in areas of high magnetic relief. Diurnal readings at 1 to 1½ hour intervals were taken on permanent base stations.

A vertical loop electromagnetic survey was done with a Sharpe S.E. 200 unit fitted with an amplifier and special batteries to increase the range to 400 feet. Readings were taken at 100-foot

intervals along all the picket lines using the parallel line method. In this method the transmitter and receiver are set up at the same station on different lines so that the transmitter-receiver interval is 400 feet. All indicated conductors are checked by the fixed transmitter method. In this method the transmitter is set up on a known or suspected conductor and readings are taken at 50-foot intervals along a section of adjacent line or lines. In this way the conductor is traced from line to line and accurately located within 25 feet on every line.

RESULTS OF SURVEYS

A narrow magnetic anomaly striking roughly N 60°W across lines 54 N and 56 N was outlined. Its maximum relief above background was 2600 gammas. Minor local variations were also outlined by the magnetic survey. The anomaly outlined is most probably caused by a diabase dike.

The electromagnetic survey did not indicate any conductors.

GEOLOGY

Several outcrops are present in the area. The general area is underlain by Nipissing diabase, and Cobalt conglomerate slate and graywacke.

ASSESSMENT CREDITS

Assessment credits in the amount of 22½ days for the electromagnetic survey and 24 days for the magnetometer survey were submitted on each claim.

No other work is available.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The Derosier option was explored by electromagnetic and magnetometer geophysical surveys.

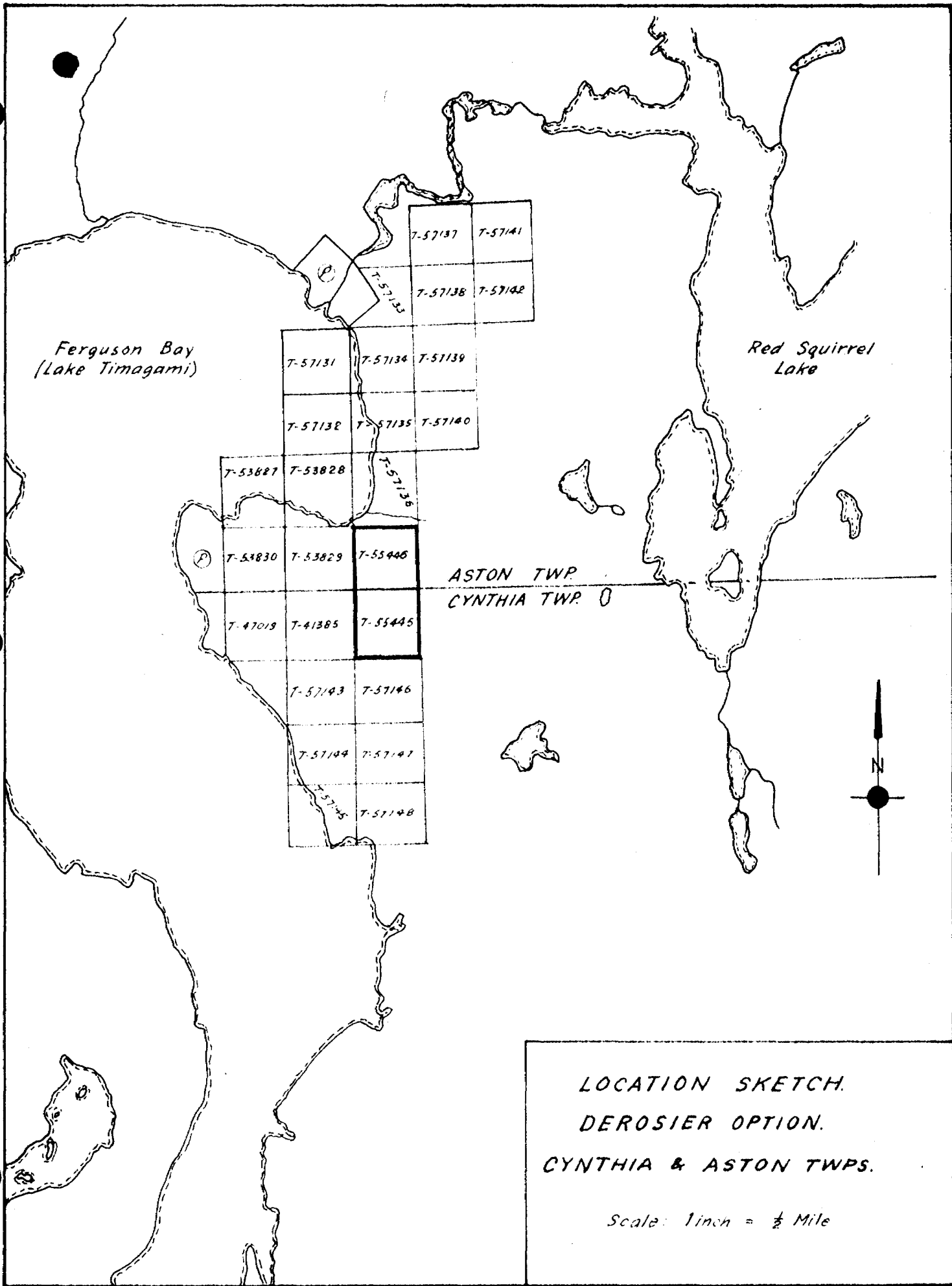
Except for a magnetic anomaly most probably caused by a diabase dike no other anomalies or electromagnetic conductor were located.

No further work on the claims is recommended.

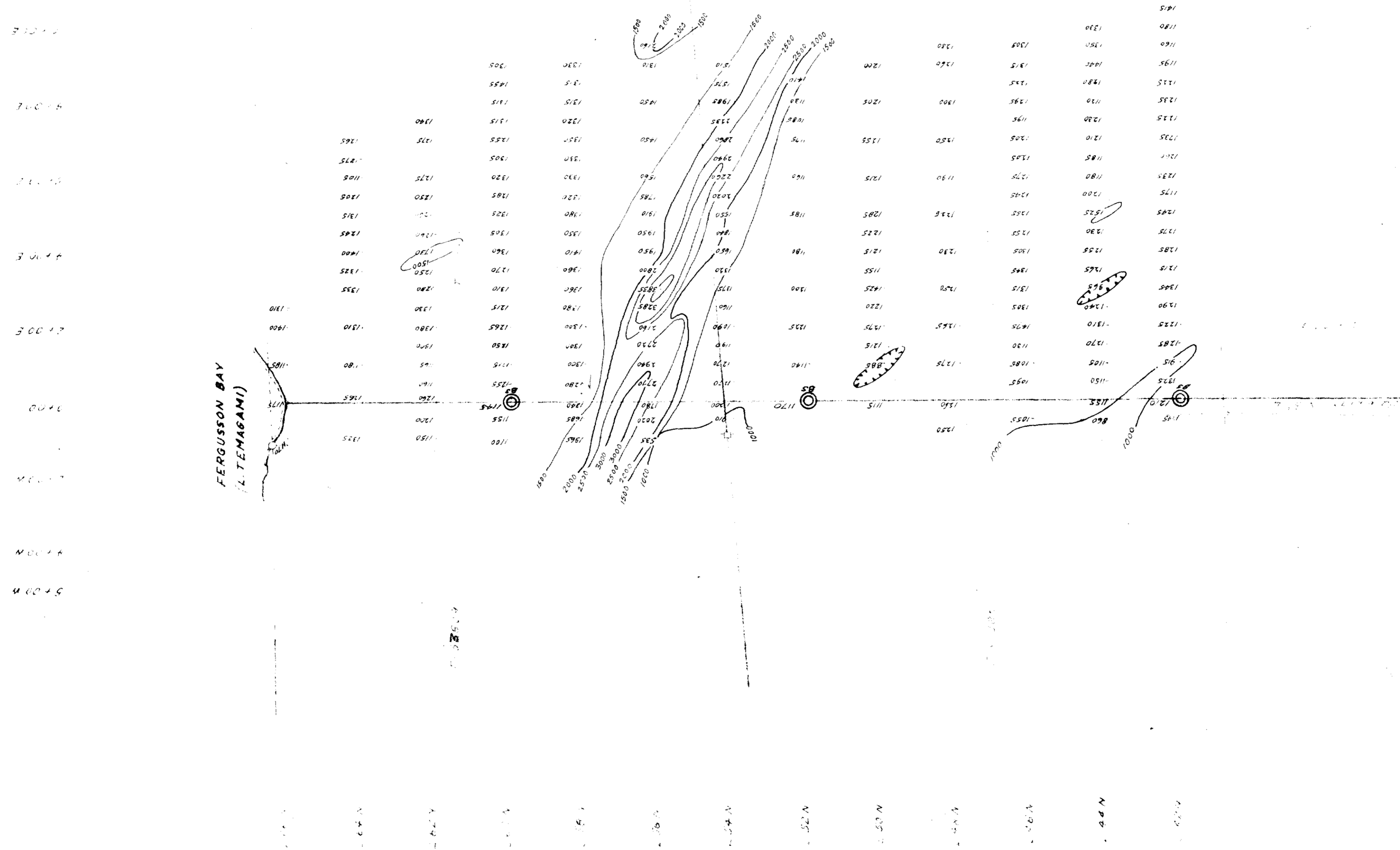
ACCOMPANYING MAPS

- | | | | |
|-----|--------------|---|-----------------------------|
| (1) | Drawing 3052 | - | "Magnetometer Survey" |
| (2) | Drawing 3053 | - | "Vertical Loop E.M. Survey" |

References - Report #418T.



LOCATION SKETCH.
 DEROSIER OPTION.
 CYNTHIA & ASTON TWPS.
 Scale: 1 inch = 1/2 Mile



LEGEND
 1925
 Values shown thus \times are in gammas
 1025
 Contours shown thus --- are at 500 gamma intervals
 Instrument: Sharpes Fluxgate Magnetometer Model MF-1
 Operator: A. MacDonnell
 (C) Base Station
 85

MAGNETOMETER SURVEY
 OF
DESROSIERS OPTION
 TOWNSHIP 9, 11-TON TOWNSHIPS,
 PROVINCE OF ONTARIO
 C-14
KEEVIL MINING GROUP LTD.
 GEOPHYSICAL ENGINEERING AND SURVEYS LIMITED



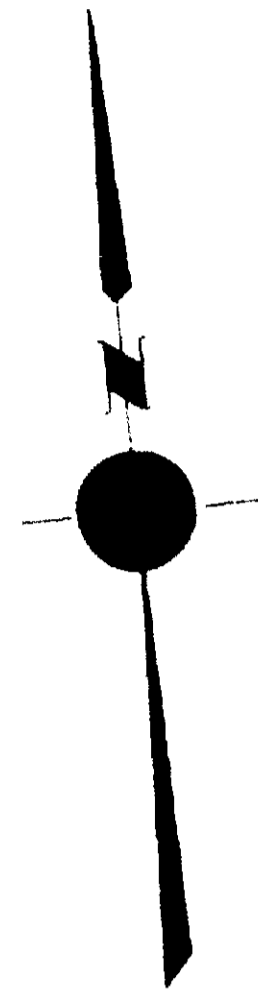
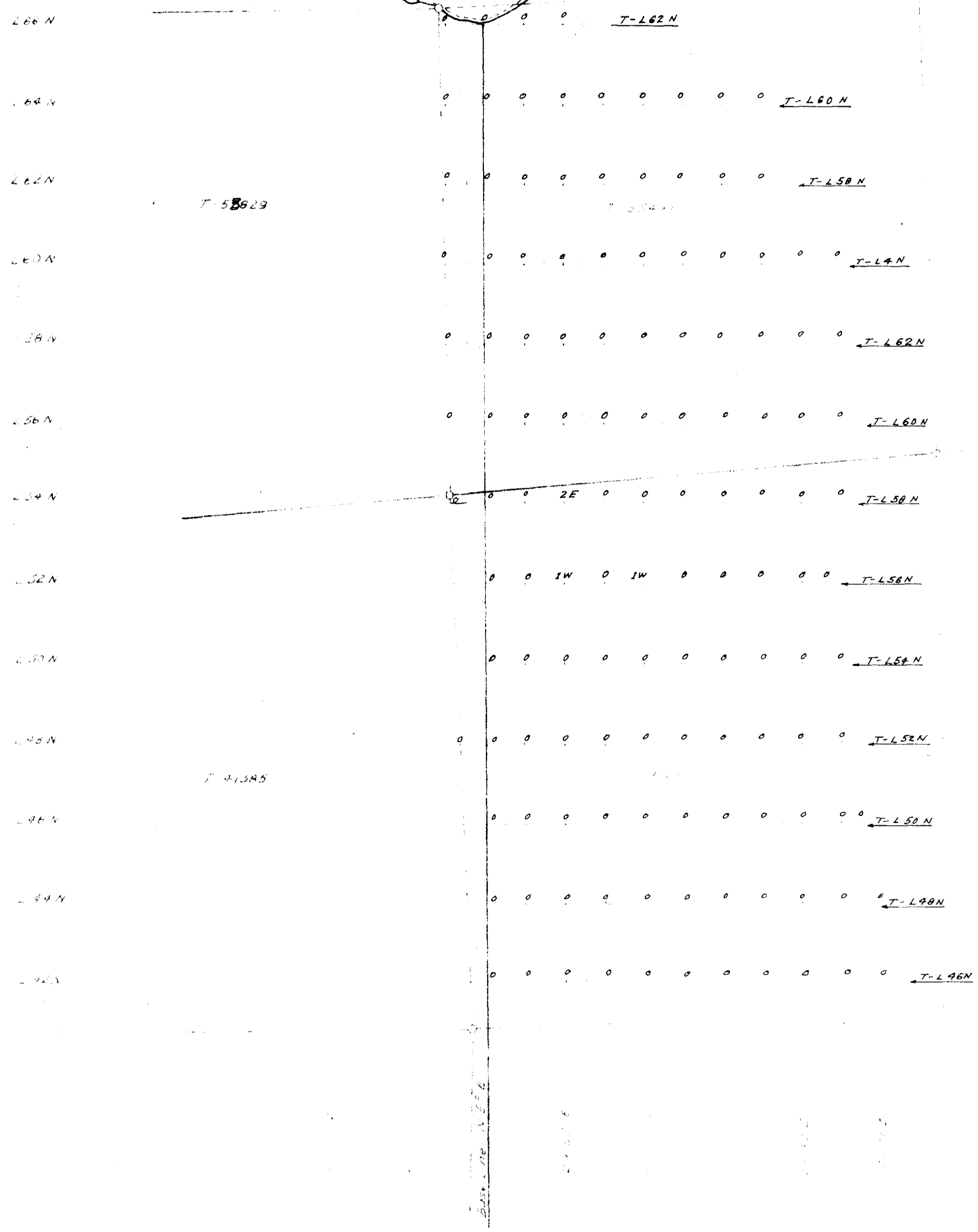
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3-300
4-300
5-300
6-300
7-300
8-300
9-300
10-300

FERGUSON BAY
(L. TEMAGAMI)



Instrument: Sharpes S.E. 200 V.E.M.
Operator: A. MacDannell
Method - Parallel Line

VERTICAL LOOP E.M. SURVEY
DESROSIERS OPTION
CYNTHIA & ASTON TOWNSHIPS,
PROVINCE OF ONTARIO.
FOR
KEEVIL MINING GROUP LTD.
BY
GEOLOGICAL ENGINEERING AND SURVEYS LIMITED.

