010

July 24, 1975.

Bird River Mines Ltd.,
98 Balmoral Street,
WINNIPEG, Manitoba.

Interim Report on the Bird River Mines, Ltd., Claims near Crescent Lake, Ontario.

The geology of the immediate area is defined in a report by Dr. Hoiles, and will not be reviewed herein. An examination of this map, and the regional map by Dr. E. Pye of the O.D.M. suggests a relationship between the pegmatite and the granite greenstone contact zone. The potentially economic lithium deposits in this area appear to be in these favourable pegmatite horizons. In the Cosgrave Lake area to the south, however, several high grade lithium zones are completely enclosed in the granite host.

John Donner has, since the last reporting, conducted a series of traverses across the pegmatite zone and the adjacent host rocks. Samples have been taken for geochemical surveying, and a magnetometer survey has also been run (Sharpes A-3).

Although not completely definitive, the geochemical sampling suggests that there is a dramatic increase in the trace lithium content of the host rocks adjacent to the lithium-rich pegmatite zones. A traverse to the south of the main showing area indicates a similar increase along each side of a glacial-debris filled ravine or declivity, and this would suggest itself to be a most favourable place for a more intensive search for a lithium-bearing pegmatite zone.

The magnetic traversing indicated on map #3 indicates that it is possible to define the greenstone-granite contacts (also see the regional aeromagnetic map #), and there is a suggestion in several places that the pegmatite zones are situated in magnetic lows. There has not been sufficient detailed traversing, however, to test this hypothesis.

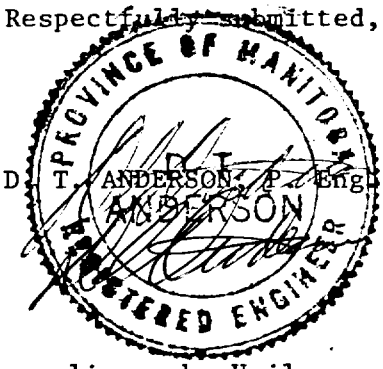
It is suggested on the basis of these studies that the next priorities should be:

(1) Stake the 3 or 4 claims to the south of the presently held ground because the ravine with the geochemical anomaly runs off the property.

(2) Conduct a more intensive geochemical sampling survey through the claim block and adjacent ground.

(3) Investigate the magnetic possibilities with more detailed magnetic surveying.

Respectfully submitted,



D. T. ANDERSON, P. Eng. (Man.).

DTA/VD

Attached: Aeromagnetic Map G-
Regional Geology Map by Pye,
Local geology map showing geochemical sampling - by Hoiles.

Ontario

Ministry of Natu

52108NW0007 2.2226 CRESCENT LAKE

900

GEOPHYSICAL – GEOLOGI
TECHNICAL DATA

RECEIVED
SEP 10 1976
PROJECTS UNIT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Magnetometer
Township or Area Crescent Lake-Plan #M-2609
Claim Holder(s) John Donner

Survey Company
Author of Report Dr. D. T. Anderson
Address of Author 814 Floot Ave, Winnipeg R3M1L4
Covering Dates of Survey June & July, 1975
(linecutting to office)
Total Miles of Line Cut 4½ miles

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

DAYS per claim

Geophysical
–Electromagnetic 40
–Magnetometer
–Radiometric
–Other
Geological
Geochemical

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: August 2/76 SIGNATURE:
Author of Report or Agent

L.D

Res. Geol. _____ Qualifications 2.461

Previous Surveys

File No.	Type	Date	Claim Holder

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

T.B. 417358 (prefix) (number)
T.B. 417359
T.B. 417360
T.B. 417361

If space insufficient, attach list

TOTAL CLAIMS

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings 351

Station interval 10 and 50 feet Line spacing 300 to 400 feet

Profile scale _____

Contour interval _____

MAGNETIC

Instrument Sharp A3 Magnetometer

Accuracy – Scale constant Not applicable - relative values.

Diurnal correction method Base Line station return system.

Base Station check-in interval (hours) N.A

Base Station location and value N.A.

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

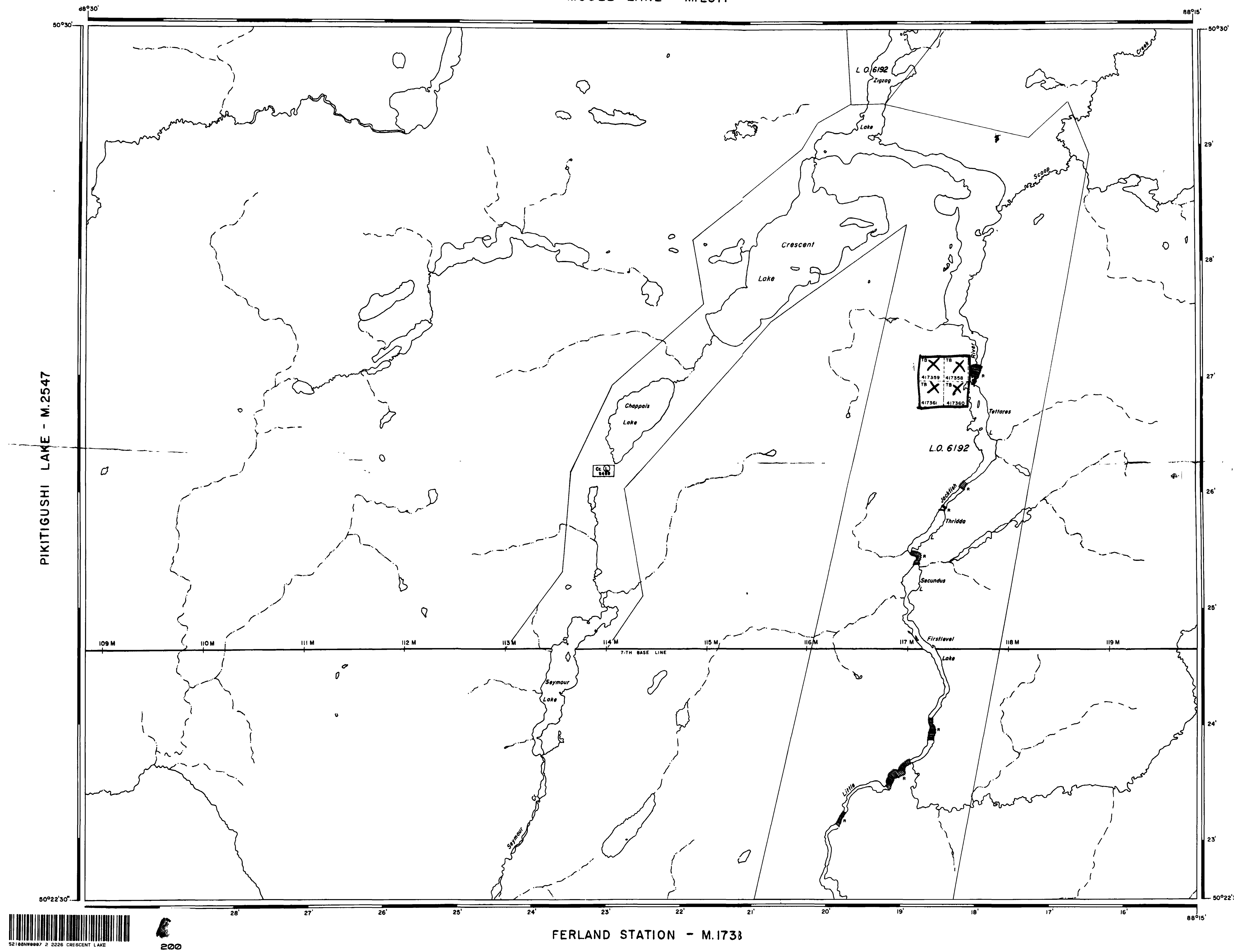
– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____



2.2226

CRESCENT LAKE

DISTRICT OF
THUNDER BAY

THUNDER BAY
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

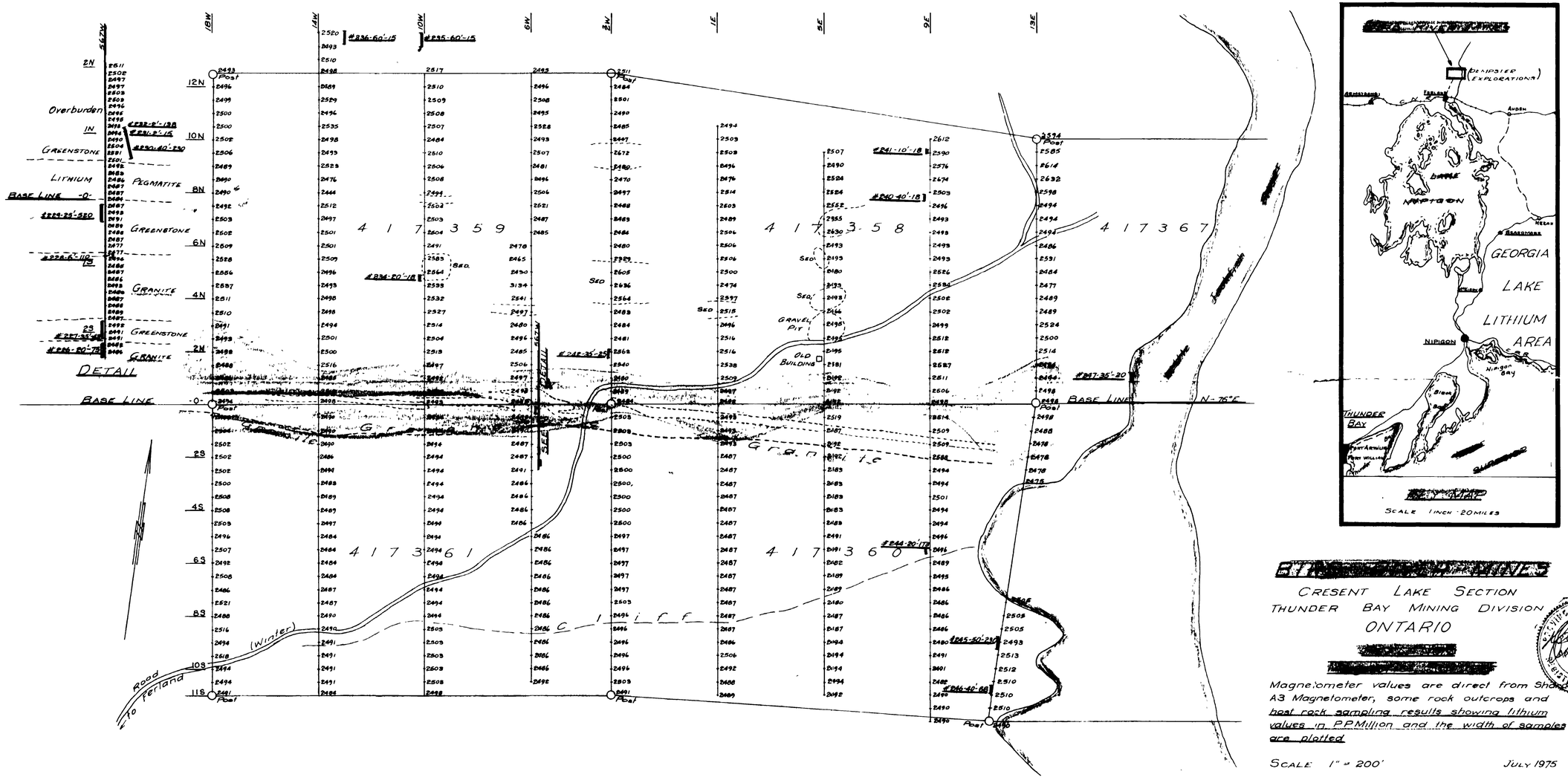
Ogoki Diversion: L.O 6192 to Ont. Hydro - File 57614 v.3

DATE OF ISSUE
OCT 27 1976
SURVEYS AND MAPPING BRANCH

NATIONAL TOPOGRAPHIC SERIES 52 I 8

PLAN NO. M-2609

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



[redacted]

CRESENT LAKE SECTION

THUNDER BAY MINING DIVISION

ONTARIO

[redacted]

Magnetometer values are direct from Shar A3 Magnetometer, some rock outcrops and heat rock sampling results showing lithium values in PPMillion and the width of samples are plotted

SCALE 1" = 200'

JULY 1975

PROVINCE OF ONTARIO
REGISTERED ENGINEER
ANDERSON
1976

210

2.2226