



42A02SE0133 2.1272 BADEN

Report on Electromagnetic Survey

LARCHE & ROUSSEAU PROPERTY

BADEN TOWNSHIP, ONTARIO

Larder Lake Mining Division

Introduction :

Ground geophysical work, consisting of an electromagnetic survey, was completed over the entire six-claim Larche & Rousseau Property located in Baden township. The program was carried out from May 23 to June 2, 1973.

This report and accompanying map describe the survey and gives an interpretation of the results.

Property Description:

The property consists of six unpatented, contiguous, 40-acre claims (total area of approximately 240 acres) all located in Baden Township, Larder Lake Mining Division, Ontario and are numbered as follows ...

CLAIM NOS.

| | |
|-----------------------------|-----------------|
| L.267332 & 33 | 2 claims |
| L.353676-79 inclusive | 4 " |
| | <u>6 claims</u> |

At the date of this Report the Recorded holder of the aforementioned six claims is Mr. John P. Larche, 721 Churchill Street, Timmins, Ontario.

Location & Access :

The property is located approximately eight miles northwest of the town of Matachewan, Ontario.

Access to the property can be gained from Highway 566 via either a tractor road (approximately 4.5 miles) or by canoe (3.5 miles); or via float-equipped aircraft from Porcupine Lake (37 miles).

Geology :

The claims are underlain by Keewatin volcanics, cut by later dykes of diabase, syenite and quartz porphyry. Outcrop on the property is sparse.

From 200 ft. west to 400 ft. east at the base line, a series of parallel shears, across widths ranging from thirty to fifty feet, extend for a length of over 500 ft. and cut greenstones and syenite. The shears strike N 80° E and dip 80° south; they contain quartz stringers. The wallrock is greatly altered and contains pyrite. Significant gold values have been established in this area.

Previous Work :

Prior to the geophysical survey described herein, the only work done on the property has been stripping and trenching.

Electromagnetic Survey :

An east-west base line was cut and chained for control, and a north-south pace and compass E.M. survey at 400-foot spacing and 100-foot readings was conducted by J. Larche and A. Rousseau; all readings were taken while facing north.

Type of Instrument :

A Ronka EM-16 V.L.F. electromagnetic unit was used. The transmitting station was N.A.A. Cutler, Maine. For details of instrument see the attached brochure.

Interpretation of Results :

Only one anomaly of interest was detected ... located from line 4 West to line 12 East. It may be that this anomaly would continue further to the east if it were not for interference from an old abandoned transmission line that traverses the property.

Over said anomaly the In-phase readings indicate a strong cross-over, however, the Quadrature does not respond well. Since the anomaly is located in an area of overburden its cause is presently unknown ... it may be due to either topographical effects; conductive shear zones; and/or disseminated sulphides.

In order to aid in evaluating the cause of said anomaly, it is recommended that additional "check surveys" be conducted utilizing either a Magnetometer or an Horizontal Loop Electromagnetic Unit.

* * * *

Respectfully submitted,

John P. Larche

John P. Larche

Timmins, Ontario

August 9, 1973

GEOPHYSICAL -
TECHNIC



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900

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 GEOPHYSICAL

Township or Area BADEN TOWNSHIP

Claim holder(s) John P. Larche

Author of Report John P. Larche

Address 721 Churchill St.; Timmins, Ontario

Covering Dates of Survey May 23rd-August 10th, 1973
(linecutting to office)

Total Miles of Line cut Base Lines 4,345 ft.

MINING CLAIMS TRAVERSED
List numerically

L. 267332
(prefix) (number)

L. 267333

L. 353676

L. 353677

L. 353678 *not covered*

L. 353679

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

Geophysical

-Electromagnetic 20

-Magnetometer

-Radiometric

-Other

Geological

Geochemical

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

ENTER 20 days for each
additional survey using
same grid.

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

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

DATE: Aug. 9, 1973 SIGNATURE: John P. Larche
Author of Report or Agent

PROJECTS SECTION

Res. Geol. _____ Qualifications See letter 10/8/1973

Previous Surveys L. D.

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

TOTAL CLAIMS Six

OFFICE USE ONLY

If space insufficient, attach list

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 296 Number of Readings 296
 Station interval 100 ft.
 Line spacing 400 ft.
 Profile scale or Contour intervals 1 inch to 40'
(specify for each type of survey)

MAGNETIC

Instrument _____
 Accuracy - Scale constant _____
 Diurnal correction method _____
 Base station location _____

ELECTROMAGNETIC

Instrument Ronka EM-15 VLF Unit
 Coil configuration (measure In-phase & Quadrature)
 Coil separation infinite
 Accuracy ± 1%
 Method: Fixed transmitter Shoot back In line Parallel line
 Frequency 17.8 kHz NAA Cutler, Maine
(specify V.L.F. station)
 Parameters measured In-Phase & Quadrature

GRAVITY

Instrument _____
 Scale constant _____
 Corrections made _____
 Base station value and location _____

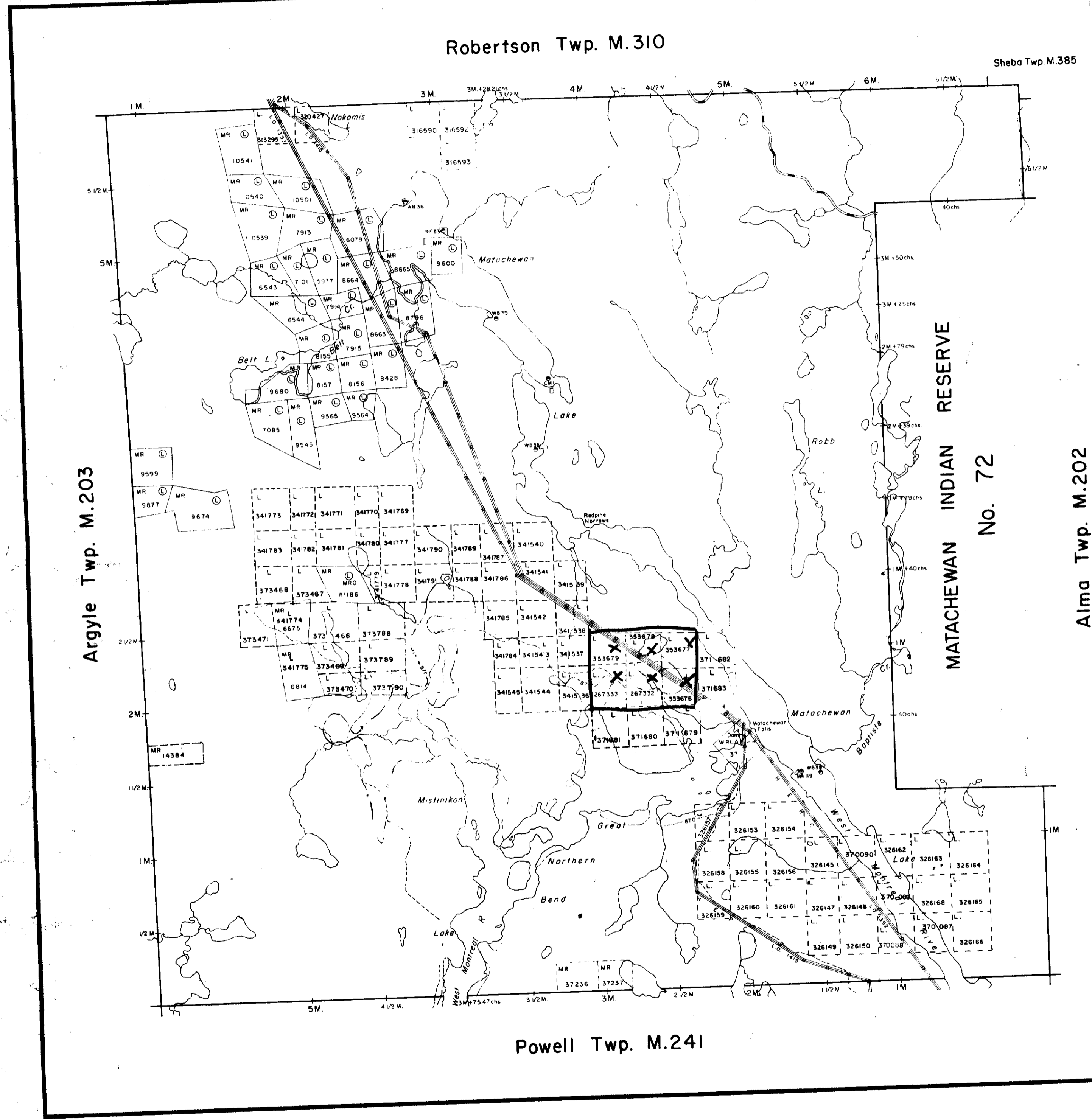
Elevation accuracy _____

INDUCED POLARIZATION -- RESISTIVITY

Instrument _____
 Time domain _____ Frequency domain _____
 Frequency _____ Range _____
 Power _____
 Electrode array _____
 Electrode spacing _____
 Type of electrode _____

M.502

M.502



THE TOWNSHIP OF
OF
BADEN

DISTRICT OF
TIMISKAMING

LARDER LAKE
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 -

NOTES

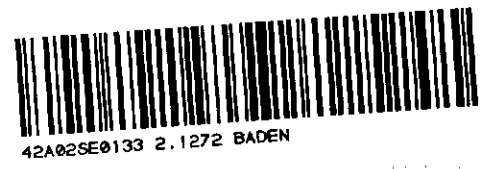
- 400' surface rights reservation around all lakes and rivers.
- Summer resort locations patented for surface rights only shown thus ⊙.
- Flooding rights to contour 870' to H.E.P.C L.O. 7601. File 12290 vol. 2.

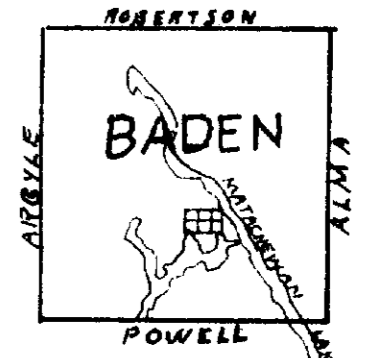
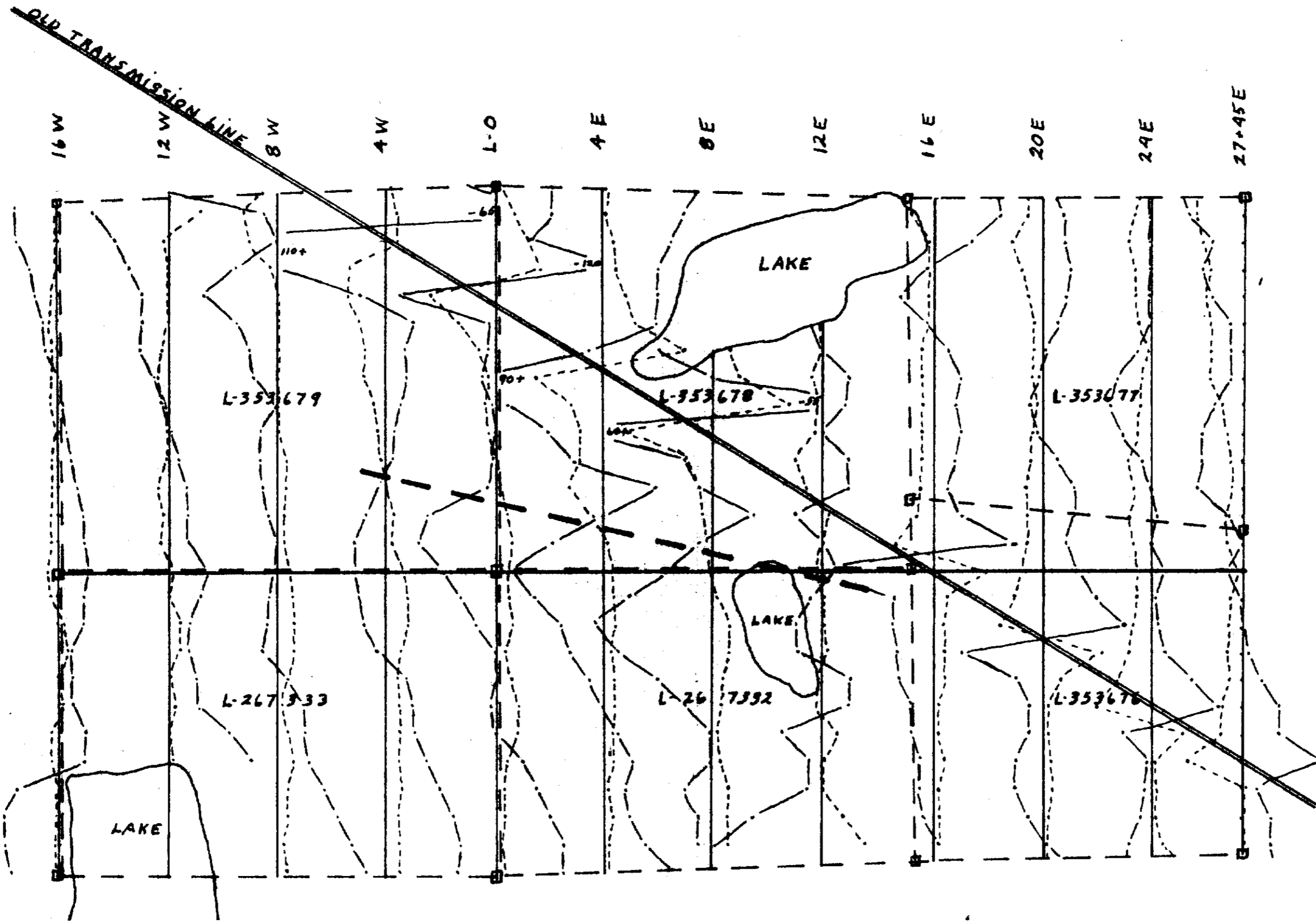
MINING LANDS
 DATE OF ISSUE
 AUG 16 1973
 MINISTRY
 OF NATURAL RESOURCES

PLAN NO. **M.205**

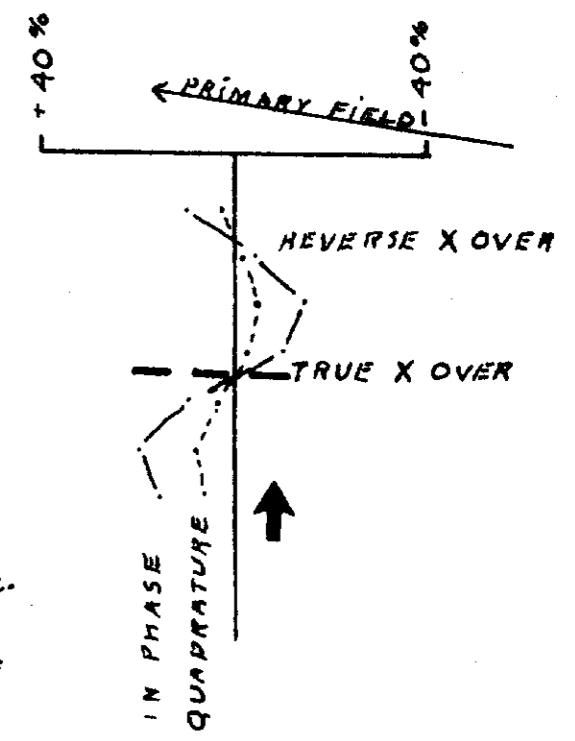
ONTARIO
 MINISTRY OF NATURAL RESOURCES
 SURVEYS AND MAPPING BRANCH

2.1272





KEY MAP 1" = 4 MILES



PROFILE SCALE
1 INCH TO 40%
296 READINGS USING
STATION N. A. A
AT 17.8 KHZ.



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JOHN P. LARCHE
AUGUST 10, 1973

E.M. 16 SURVEY
LARCHE-ROUSSEAU PROPERTY
BADEN TOWNSHIP
LARDER LAKE MINING DIVISION

SCALE 1" = 400'

John P. Larche