



Airborne Magnetometer Survey
Minedel Mines Limited
Ossian Township Property

Property:

The property is located in the Northwest corner of Ossian Township, Timiskaming District, Larder Lake Mining Division, Ontario.

The survey covered the following claims in two groups:-

1. East Group: No. 364894 to 364899 incl. ⁶
No. 387706 to 387709 incl. ⁴
2. West Group: No. 387685 to 387693 incl. ⁹
No. 388144 to 388146 incl. ³
3. Patented: No. L-11181 to 11185 incl. ⁵
No. L-11186 to 11189 incl. ⁴
No. L-12716 and L-12717. ²
No. L-11344, 15891, 12716,
12717, 11131, 11132,
12577, 11133, 11413,
12000, 11999, 12020.

The last three numbers being outside the property.

Survey:

The survey covered an area 9 3/4 miles wide in an east-west direction by 1 1/2 miles long in a north-south direction. It consisted of 35 flight lines flown alternately from North to South and next from South to North, totalling 52.5 miles of which 18 miles were flown over the property.

Data:

Data of the survey and equipment used is as follows:-

1. Equipment: Barringer Research Limited
M-123 Magnetometer Systems.
2. Power: 24 volts.
3. Cycle: 1 gamma.
4. Cycle Rate: 0.6 continuous cycle.
5. Output Analog: 0. - 99. gammas.
6. Spacing: As per attached location map;
Not more than $\frac{1}{4}$ mile. Generally
 $\frac{1}{8}$ mile over the claims.
7. Height: 500 feet above ground.
8. Speed: 120 miles per hour.
9. Chart: 20 gammas per square inch.
10. Aircraft: Cessna 180, CF-PKL.
11. Sensor: Airborne Model AM-123;
AS-104-5, Serial #6252.
Cable 100' long.
12. Operators: E. Blanchard, H. Blanchard.
13. Engineers: P.G.Lacombe & Associates.
14. Consultants: Barringer Research Limited.
15. Date: Date of final flight and final
survey check: April 12, 1975.

Interpretation:

In the Eastern Group of claims, east-west trending anomalies have been located described as follows:

- A- 2000' long rising sharply above 15 to 50
back ground to 103;
- B- 700' long, wider, rising to 106 gammas;
- C. 850' long rising less sharply above
background to 93 gammas.

At the west end of the East Group of claims, Anomalous areas D and E stand above a 70 to 80 gammas background in large masses as follow:

Area D - 1500 ft. long (NS) by 1300 ft. wide to 104 gammas;

Area E - 1000' ft. long by 600 ft. wide to 100 gammas.

These are presumably underlain by larger masses of magnetic to slightly magnetic formations, possibly of volcanic origin. A sharply low intensity area is immediately adjacent to the west on line 21, indicative of sharp geological changes.

The Eastern part of the Patented Claim Group has a highly magnetic background with a series of off-scale readings at the south end of line 21 and over most of line 22. This has been marked as Area F. It either corresponds to a formation of highly contrasting magnetic susceptibility or some local interference. The very low readings over the northern part of line 21 appears to be coupled with this stronger attraction.

From line 23 to line 33, the magnetic intensity rises gradually and uniformly from east to west, with east-west anomalous patterns beginning to appear in the extreme north-west corner under claim 387685, similar to the ones detected under the Eastern Group. It is to be presumed that the whole area is underlain by a similar formation of a homogeneous nature, with depth of overburden possibly shadowing the eastern part gradually.

Conclusions:

Anomalies A, B and C are well defined and require more investigation which should be carried out by ground magnetometer verification followed by geological survey of the area.

The nature of the higher magnetic intensity of areas D and E will be shown by a similar geological survey.

Cause of the sharp rise in Area F must be similarly investigated, particularly the definite series of off-scale readings on line 21. Areas G' and G'' appear of secondary significance.

Recommendations:

1. To check by ground magnetometer survey the exact characteristics of anomalies A, B, C, D, E and F.
2. To complete a reconnaissance geological survey of the property with detailed geological mapping of anomalous areas.

Estimate:

It is estimated that both work can be completed at a cost between \$2500 and \$3500 depending on the accuracy and detail of the work.

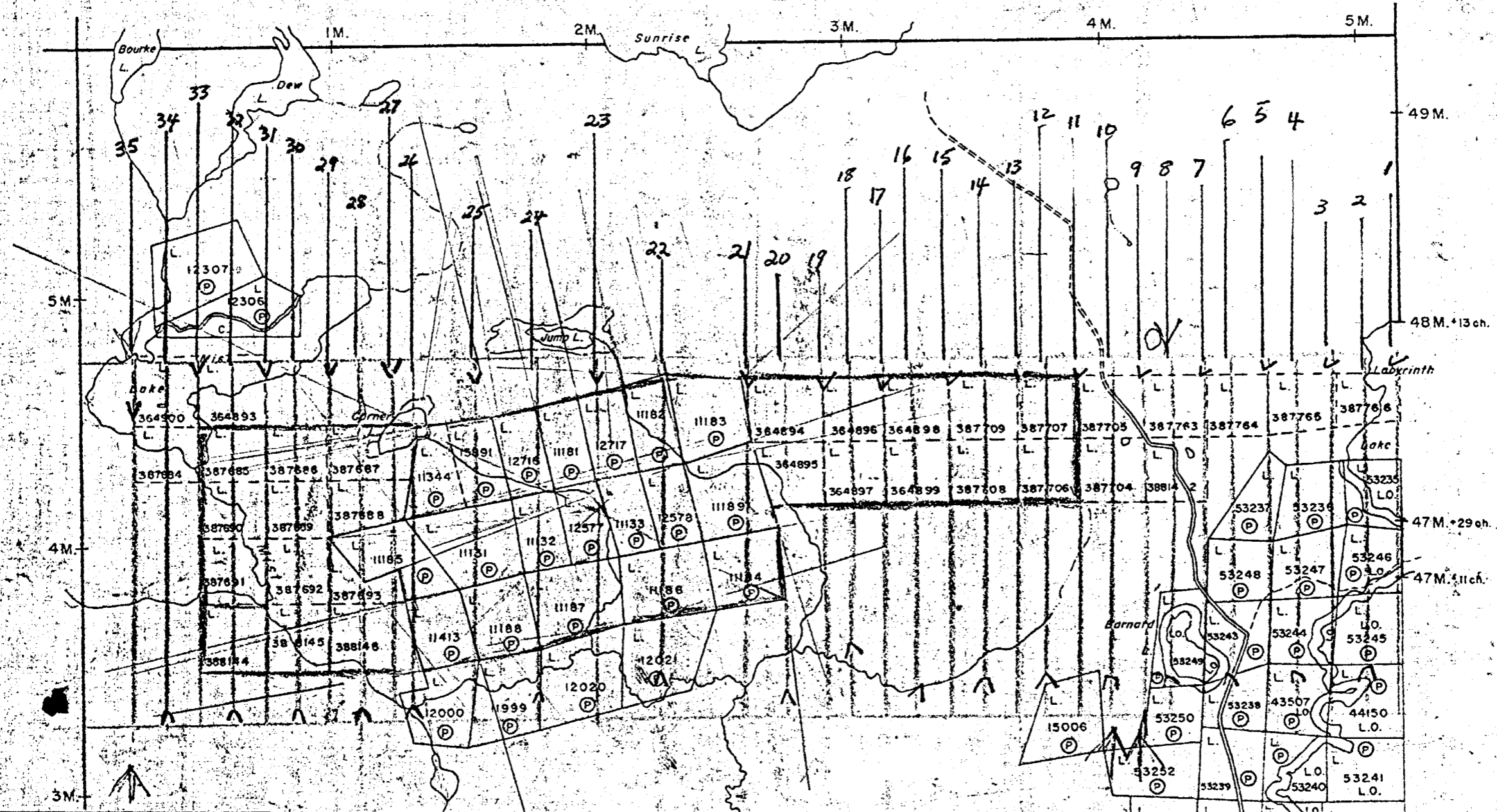


Pierre G. Lacombe, Ing.
P.G.Lacombe & Associates
Consulting Engineers

April 14, 1975.

ONTARIO

PONTIAC TWP. - M.382



A11
32

MP - M.357

OF QUEBEC

7 2.1790

NOTE:- This letter should be added to our report dated April 14, 1975 entitled:

"Airborne Magnetometer Survey
Minedel Mines Limited
Ossian Township Property"

covering claims 364894 et Al. in
Ossian Township.

May 8, 1975.

Mr. H. Cuomo
Minedel Mines Limited
943 Upper Gage Ave.
Hamilton, Ont.

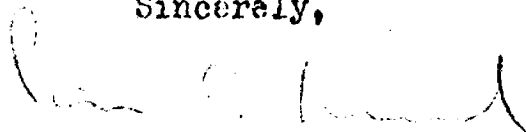
Dear Mr. Cuomo:

Referring to the airborne magnetometer survey recently flown over your Ossian Township property, after verification with our geophysicists, we find that the high magnetic readings obtained over the southern part of Line 21 are probably due to the presence of three timber skidders (types of tractors used in timbering operations) whose mass of steel has been picked up by the instrument.

It should be quickly checked on the ground, but chances are the lower part of Line 21 will be quite similar to the northern half.

Should you require line-cutting, geological or ground geophysical mapping and trenching work, we have the crews and equipment to perform same at your convenience, including surface drilling equipment.

Sincerely,



PGL: id

Pierre G. Lacombe, Inc.

RECEIVED

MAY 21 1975

LANDS ADMINISTRATION
BRANCH

RECEIVED

MAY 21 1975

PROJECTS UNIT

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations _____ Number of Readings _____

Station interval _____

Line spacing _____

Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base station location _____

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 _____

Time domain _____ Frequency domain _____

Frequency _____ Range _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____ Magnetic

Instrument(s) _____ Barringer M-123 System
(specify for each type of survey)

Accuracy _____ 2 gammas.
(specify for each type of survey)

Aircraft used _____ Cessna 180 CF-PKL

Sensor altitude _____ 400 ft.+ (Aircraft at 500')

Navigation and flight path recovery method _____ Topographic features.

Aircraft altitude _____ 500 Feet. _____ Line Spacing _____ 1/8 mile.

Miles flown over total area _____ 52.5 _____ Over claims only _____ 18

PONTIAC TWP. - M.382

THE TOWNSHIP OF

2.1790

OSSIAN

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (C.S.)
- LEASES (L)
- 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 around all lakes and rivers.

Summer resort locations patented for surface rights only shown thus (S)

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970).

Order No.	File	Date	Disposition
43	W.64/74 96371	4/12/74	S.R.O.

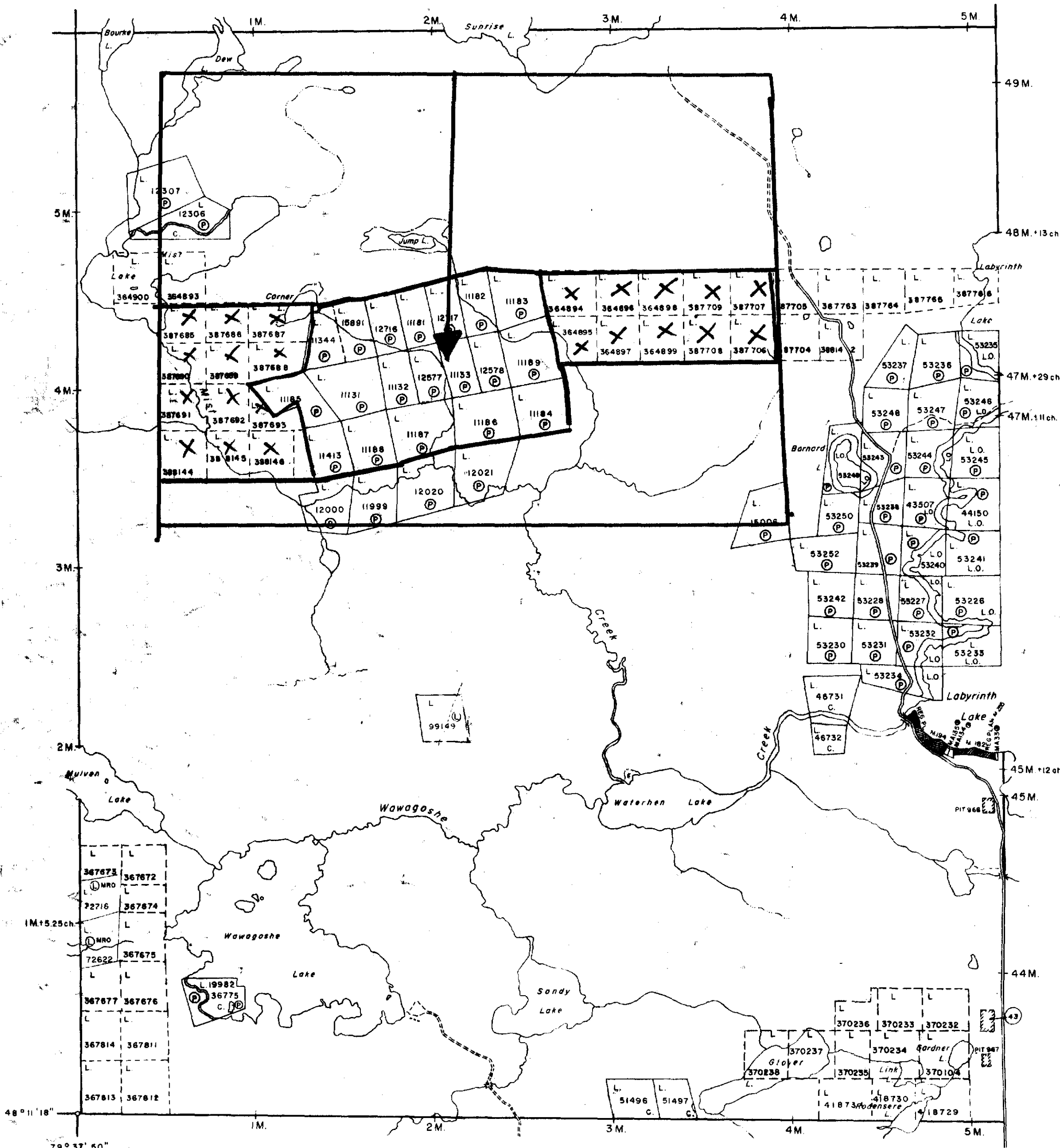
MINING LANDS
DATE OF ISSUE
APR 30 1975
MINISTRY OF NATURAL RESOURCES

PLAN NO. M.378

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

KATRINE TWP. - M.357

PROVINCE OF QUEBEC



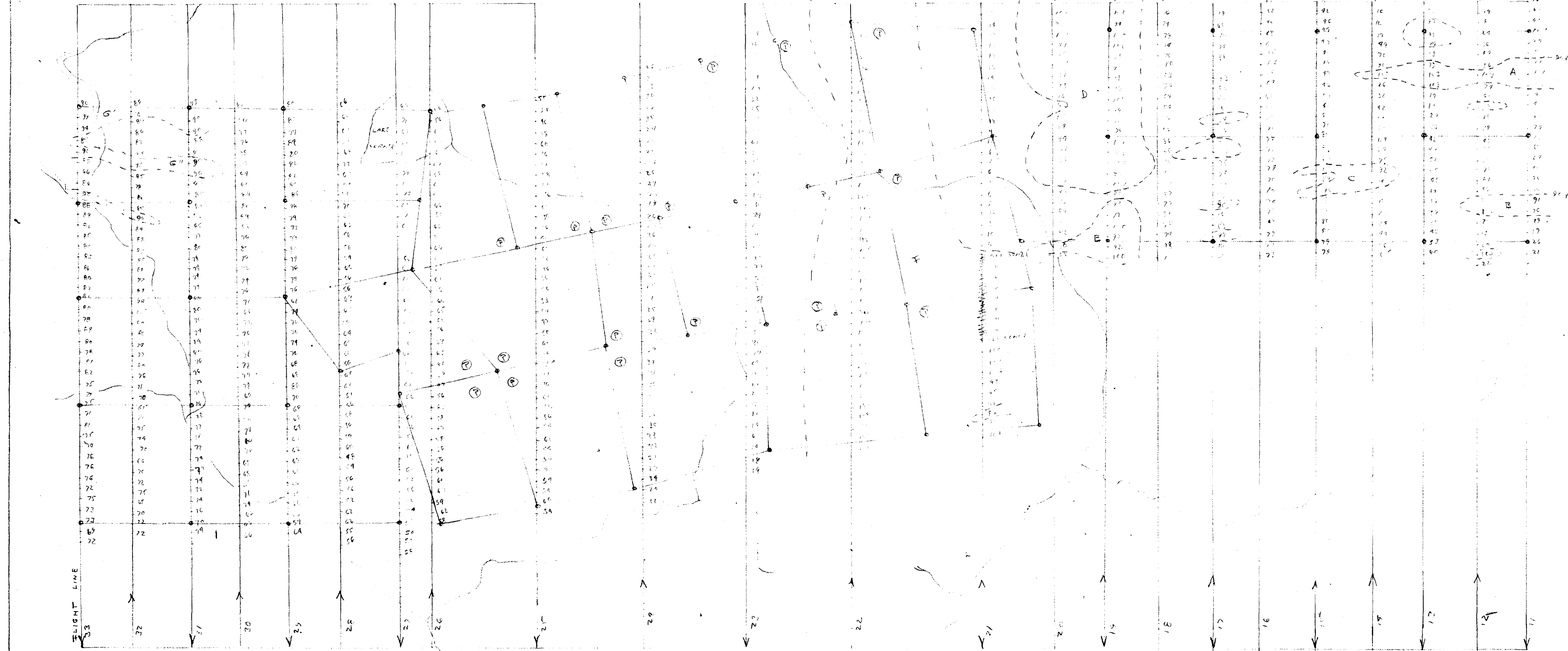
McGARRY TWP. - M.369



320055E0083 2.1790 OSSIAN

LAKE MIST

WUMP LAKE



LEGEND

- FLIGHT LINES
- FLIGHT DIRECTION
- CLAIM CORNERS
- MAGNETIC INTENSITY IN GAUSS
- PATENTED CLAIM
- ANOMALOUS AREA

AIRBORNE MAGNETIC SURVEY
 MINEDEL MINES LIMITED
 OSSIAN TWP., TIMISKAMING, ONT.

SCALE: 1" = 660'

P.G. LACOMBE & ASSOCIATES
 CONSULTING ENGINEERS

MARCH 1975

