



32D04SW0277 2.7379 CATHARINE

010

GEOLOGICAL SURVEY REPORT  
ON THE  
PERRONS' INC. PROPERTY  
MISEMA EIGHT GRID  
CATHARINE TOWNSHIP  
LARDER LAKE MINING DIVISION  
DISTRICT OF TIMISKAMING, ONTARIO  
FOR  
ALEXANDER H. PERRON

RECEIVED  
NOV 06 1984  
MINING LANDS SECTION

NOVEMBER 1, 1984

MARY GREER  
GEOLOGICAL TECHNICIAN



32D04SW0277 2.7379 CATHARINE

010C

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ILLUSTRATIONS

Location Map - (Figure 1 a). . . . . 3 a)

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Accompanying Plan Map. . . . . In Back Pocket

Scale: 1 inch to 200 feet

Date: October 1984

Misema Eight Grid

Geological Survey

Drawing No. 8-84-3

GEOLOGICAL SURVEY REPORT  
ON THE  
PERRONS' INC. PROPERTY  
MISEMA EIGHT GRID  
CATHARINE TOWNSHIP  
LARDER LAKE MINING DIVISION  
DISTRICT OF TIMISKAMING, ONTARIO

INTRODUCTION

The Misema Eight Grid was recorded on April 15, 1982 and October 8, 1982.

A geophysical grid at a 400 foot line spacing was subsequently established by A. H. Perron in October 1983. During the period of October 1983, two geophysical surveys were completed over the entire group.

In September of 1984 a geological survey was performed by Mary Greer.

All field work, drafting and interpretation was completed by Mary Greer.

The purpose of this report is to briefly describe the outcrops found in said survey.

The outcrops detected are shown on the accompanying plan map, at a scale of one inch to 200 feet, that form an integral part of this report.

PROPERTY DESCRIPTION

The Misema Eight Grid consists of a contiguous block of eight (8), 40 acre, unpatented mining claims located in Catharine Township, Larder Lake Mining Division, District of Timiskaming, Ontario, and are further described as follows:

| <u>Claim No.</u>         | <u>No. of Claims</u> |
|--------------------------|----------------------|
| L-642535-538 (inclusive) | 4                    |
| L-664063-066 (inclusive) | <u>4</u>             |
| Total number of claims   | <u>8</u>             |

Ownership of the claim group was attested to by Alexander H. Perron of 103 Government Road East, Kirkland Lake, Ontario, and was not independently ascertained by the writer. (See Figure 1b).

LOCATION AND ACCESS

The Catharine Six Group encompasses the Conc. VI, Lots 8 and 9, Catharine Township, approximately 12 miles southeast of the town of Kirkland Lake, Ontario.

This property is readily accessible via a secondary road that extends eastward approximately three miles from the village of Boston Creek. Boston Creek is located approximately 15 miles southeast of Kirkland Lake and may be reached via highway 112 and 564.

The aforementioned secondary road is easily travelled by standard drive in the summer and snowmobile in the winter. (See Figure 1a)

#### PREVIOUS WORK

Scattered old trenching can be found throughout the property, however no records of these trenches are available.

In June 1981 Amax Minerals Exploration conducted a geological survey over claims L-664063 to L-664066 (inclusive). The survey was by pace and traverse and local outcrop was located and identified. No geophysical surveys were performed, although a geophysical survey was proposed.

In October 1983, an electromagnetic and magnetic survey was performed by Perrons' Inc. (See Regional Assessment Files).

#### SURVEY PROCEDURE

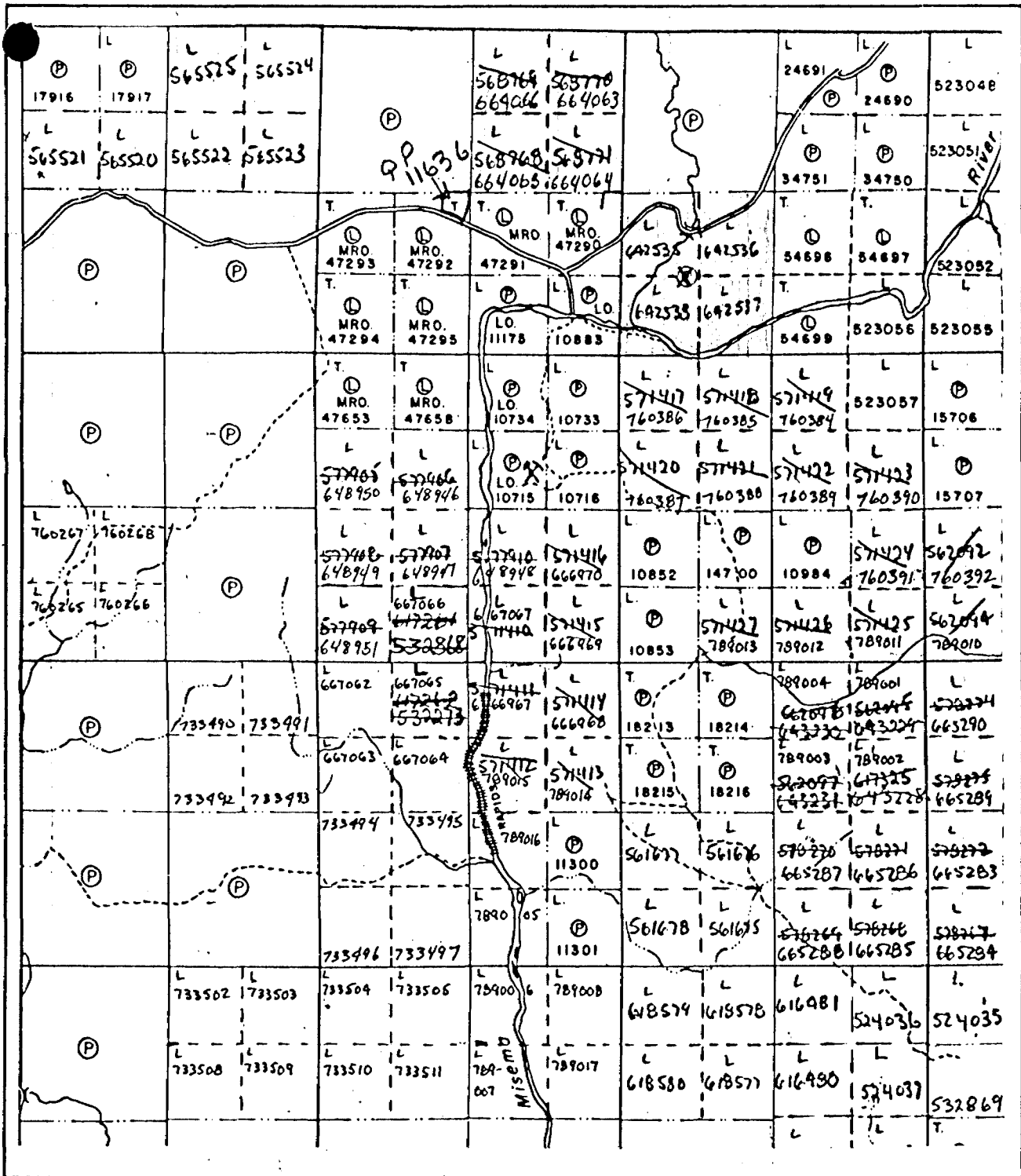
A northwest-southeast baseline was established from the common post of claims L-664064 and L-642535. The baseline was cut 3,150 feet south to the Misema River and extended diagonally northwest for 3,800 feet.

A grid system of picket lines 400 feet apart with stations each 100 feet, was established at right angles to the baseline.

Outcrops were noted along the picket lines and compass and traverse lines connected outcrops in between lines, to tie them into the main grid.

#### TOPOGRAPHY

The general terrain of this property varies from jack pine covered sand ridges to the southeast section of the property, to gently sloping poplar, birch and spruce spotted with small outcrops to the northwest section. The

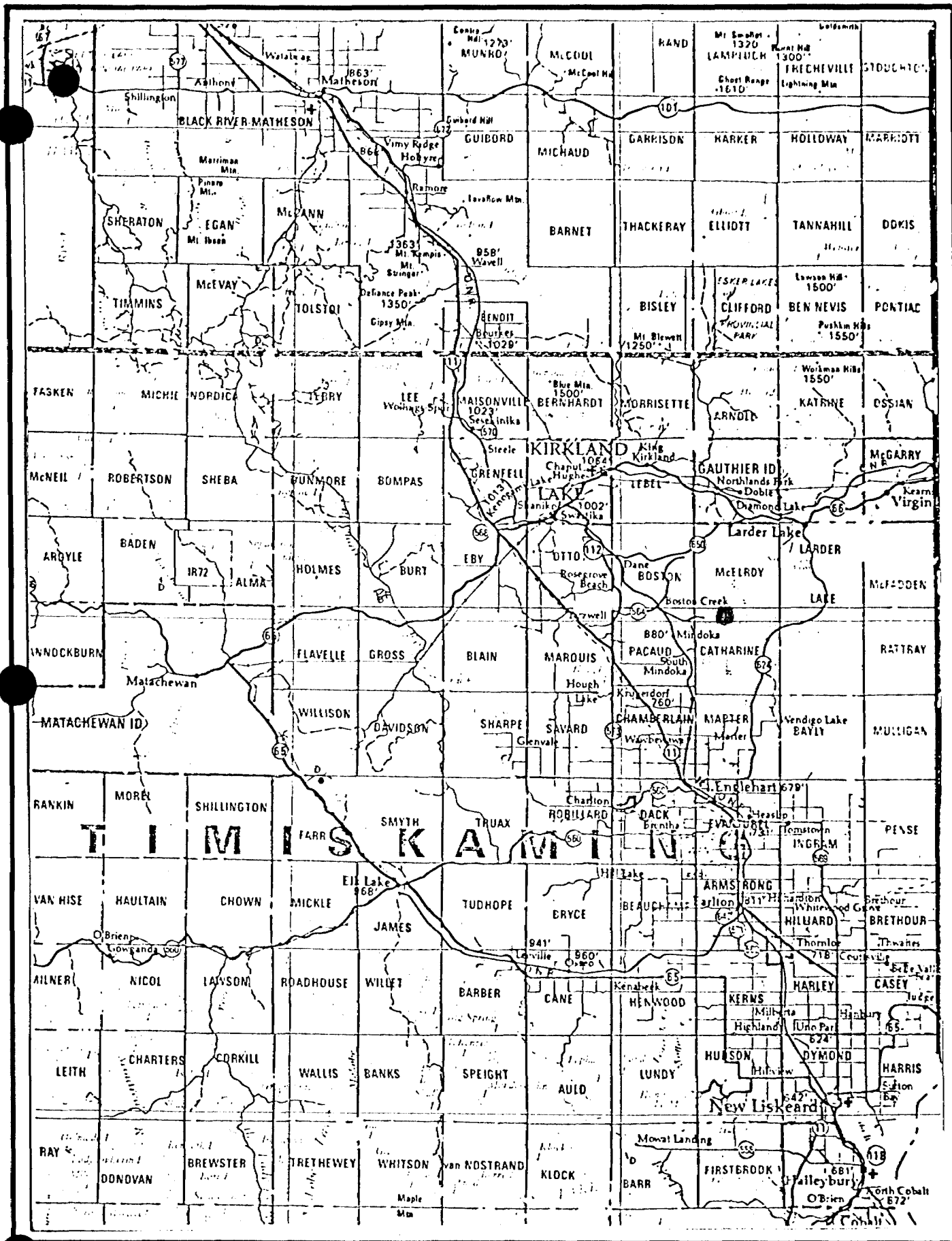


## Claim Location Map

Scale: 1 inch to 1/2 mile

(Taken from a March 1984 claim map)

Figure 1a



# Location Map

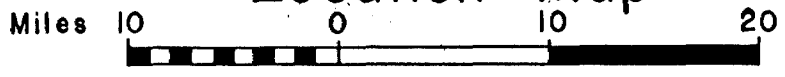


Figure 1b



difference in elevation averages 75 feet. A slow moving creek passes through the centre of the southeast group with the Misema River flowing west along the southern boundary.

#### GENERAL GEOLOGY

O.D.M. Geological Map 2043, covering Catharine and Marter townships, at a scale of one inch to one-half mile, indicates that the bedrock is underlain by Keewatin volcanics. This includes intermediate to acidic volcanics that are mainly pyroclastic. The local exposed outcrops are classified as a carbonatized fragmented andesite, with some areas of agglomerate found.

#### ECONOMIC GEOLOGY

Situated to the immediate northeast of the claim group, along the McElroy-Catharine township line, lies the Cathroy-Larder Mine property.

Cathroy-Larder Mines was incorporated in 1943 to succeed Yama Gold Mines. Yama Gold Mines produced 22,250 tons grading 0.14 oz. Au/ton between 1938 to 1942. A new gold zone was discovered by Cathroy-Larder about 1000 feet south of the shaft. After considerable underground development, including surface and underground diamond drilling, ore reserves were calculated at 280,000 tons grading 0.20 oz. Au/ton.

Mirado Nickel optioned the property in 1960 conducting additional surface and underground drilling. In 1980 the property was optioned by Canamax (Amax) and further surface diamond drilling was performed as well as surface stripping over the south ore body.

The rocks within the mine area belong to the Skead-Group which are mainly dacites, andesites, rhyolite flows and pyroclastics. These rocks are cut by small dikes of syenite, lamprophyre and diorite.

The ore is stratabound within pyroclastic units. The shaft ore body is at or near the upper contact of the Skead pyroclastics. The south ore bodies are approximately 1,500 feet from the top of the Skead group.

The upper contact of the Skead group within the mine area strike about S 70° E and dip steeply north to vertical. The ore zones consist of many narrow quartz-calcite-sulphide and massive sulphide seams. The sulphides are pyrite, chalcopyrite and sphalerite, gold is found in fractures in the pyrite.

## PRESENTATION OF FIELD OBSERVATIONS

The field data is presented on a map at a horizontal scale of one inch to 200 feet, Map No. 8-84-3 found in the back pocket of this report.

For the purpose of this presentation, due to the large amount of visible outcrop, the results will be generally described. The topography will also be described in greater detail.

### i) Topography:

The general terrain of the property is flat with small seasonal gullies occurring throughout the group. Glacial deposits of sand and gravel were found in the central part of the four (4) southern claims. Two (2) creeks are found in the lower areas between the sand hills. These creeks flow across south into the Misema River which flows west across the property. The northern four (4) claims are covered by spruce and poplar bush with scattered gullies and seasonal creek beds.

### ii) Geology:

The rock types found on the Misema Eight grid were pyroclastic volcanic rocks of the Keewatin series. Two different types were noted; one an agglomerate and a dacite or andesite, aphanitic tuff. These rock types are further described as follows:

#### a) Agglomerate:

The agglomerate is primarily composed of angular to subrounded fragments which vary in size from one foot in diameter to pebble size and smaller.

The agglomerate weathers a soft grey white and was very difficult

to break. Fresh surfaces could be scratched with a knife and were not magnetic. Small visible grains of pyrite were noted throughout the matrix of the rock which was a greenish grey colour of altered plagioclase, chlorite and quartz.

b) Dacite and andesite aphanitic tuff:

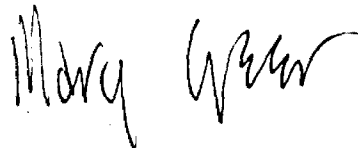
The matrix of this rock was similar to the agglomerate without any pebbles occurring. Occasional phenocrysts of possibly plagioclase were noted.

The rocks examined weathers a light grey with some pock marked weathering. It was easily scratched with a knife, was not magnetic and contained minute visible grains of pyrite in the matrix.

CONCLUSIONS AND RECOMMENDATIONS

Very little outcrop was found on the property. The major proportion being in the southwest corner of claim L-664065. It is here that many old trenches were found. It is recommended that these trenches be opened up, freshened and re-examined.

Respectfully submitted,



November 1, 1984

Mary Greer  
Geological Technician

BIBLIOGRAPHY

James A. Grant

1963: Geological Report No. 18,  
Catharine and Marter Townships:  
Ontario Department of Mines

C E R T I F I C A T E

I, Mary Greer, of Kirkland Lake, Ontario, do hereby certify:

- 1) That I am a Geophysical Technician and reside at:  
49 McKelvie Avenue, Kirkland Lake, Ont. P2N 2K6.
- 2) That I graduated from Sir Sandford Fleming College  
at Lindsay, Ontario, in 1978, with a diploma as a  
Geological Technician.
- 3) That I was employed as a Geophysical Technician by  
H. E. Neal and Associates for 18 months.
- 4) That I have been practising my profession for a  
period of five (5) years and I am qualified to write  
this report.
- 5) That I supervised and participated in this survey.

November 1, 1984  
Date

Mary Greer  
Mary Greer  
Geological Technician



320045W0277 2.7379 CATHARINE

900

Mining Lands Section

File No 2.7379

Control Sheet

TYPE OF SURVEY     GEOPHYSICAL  
                            GEOLOGICAL  
                            GEOCHEMICAL  
                            EXPENDITURE

MINING LANDS COMMENTS:

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*Lgd.*

*L.D.*

*Dennis K.*

Signature of Assessor

*Nov. 6/84*

Date

Perrons' Inc.,  
103 Government Road East,  
Kirkland Lake, Ontario  
P2N 1A9

REGISTERED MAIL

November 1, 1984

Mr. Fred Matthews,  
Lands Administration Branch,  
Mining Lands Section,  
Ministry of Natural Resources,  
Room 6450, Whitney Block,  
Queen's Park,  
Toronto, Ontario  
M7A 1W3

Dear Sir:

RE: Geological Survey Report for  
Catharine Township  
Larder Lake Mining Division

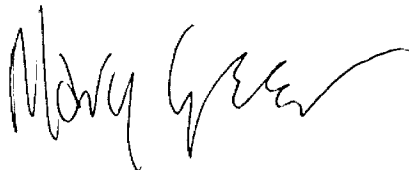
Enclosed herewith please find a duplicate copy of the following:

- Report dated November 1, 1984, by Mary Greer entitled:

Geological Survey Report  
Perrons' Inc. Property  
Misema Eight Grid  
Catharine Township  
Larder Lake Mining Division  
District of Timiskaming, Ontario

I trust this is the information required to correspond with the Report of Work filed concerning the above noted township.

Yours truly,



Mary Greer  
Geological Technician

MG/p  
Encls.

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NOV 06 1984

**MINING LANDS SECTION**



LANDS  
MAN.  
City of  
Natural  
Resources  
Ontario

Report of Work  
Geophysical, Geological,  
Geochemical and Expenditures)

27379

Instructions: Please type or print  
If number of mining claims traversed  
exceeds space on this form, attach a list.  
Note: Only days credits calculated in the  
"Expenditures" section may be entered  
in the "Expend Days Cr." columns.  
Do not use shaded area below.

# 413

(file 642535)

Mining Act

Type of Survey(s): **GEOLOGICAL** W 84 08 440  
 Claims Holder(s): **ALEX H. PERRON**  
 Address: **103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONT. P2N 1A9**  
 Survey Company: **PERRONS' INC.**  
 Date of Survey (from & to): **30 09 84 | 12 01 84**  
 Total Miles of line Cut: **APPROX. 8 MILES**  
 Name and Address of Author (of Geo Technical report):  
**MARY GREER, 49 MCKELVIE AVE., KIRKLAND LAKE, ONT. P2N 2K6**  
 Township or Area: **CATHARINE**  
 Prospector's Licence No.: **K-19026**

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

| Special Provisions   | Geophysical                         | Days per Claim |
|--|-------------------------------------|----------------|
| For first survey:<br>Enter 40 days. (This includes line cutting)                             | - Electromagnetic<br>- Magnetometer | 20             |
| For each additional survey:<br>using the same grid:<br>Enter 20 days (for each)              | - Radiometric<br>- Other            |                |
| Non-Days<br>Complete reverse side<br>and enter total(s) here                                 | Geological                          |                |
|  | Geochemical                         |                |
| Airborne Credits<br>Note: Special provisions<br>credits do not apply<br>to Airborne Surveys. | Electromagnetic                     | Days per Claim |
|  | Magnetometer                        |                |
|  | Radiometric                         |                |

| Prefix | Mining Claim Number | Expend. Days Cr. | Prefix | Mining Claim Number | Expend. Days Cr. |
|--------|---------------------|------------------|--------|---------------------|------------------|
| L      | 642535              |                  |        |                     |                  |
|        | 642536              |                  |        |                     |                  |
|        | 642537              |                  |        |                     |                  |
|        | 642538              |                  |        |                     |                  |

KIRKLAND LAKE  
MINING DISTRICT  
**RECEIVED**  
OCT - 4 1984  
AM PM  
7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6

Expenditures (excludes power stripping)  
 Type of Work Performed:  
 Performed on Claim(s):  
 Calculation of Expenditure Days Credits  
 Total Expenditures \$  ÷  =   
 Total Days Credits  
 Instructions  
 Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **4**

Date: **Oct 17/84**  
 Received Holder or Agent (Signature): **Mary Greer**

For Office Use Only  
 Total Days Cr. Recorded: **80**  
 Date Recorded: **Oct 4 1984**  
 Mining Recorder: **[Signature]**  
 Date Approved as Recorded: **Nov 7/84**  
 Branch Director: **[Signature]**

Certification Verifying Report of Work  
 I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.  
 Name and Postal Address of Person Certifying:  
**MARY GREER 49 McKelvie Ave Kirkland Lake Ontario**  
 Date Certified: **Oct 20/84**  
 Certified by (Signature): **Mary Greer**

ANDS  
MAN

# 499

Report of Work  
(Geophysical, Geological,  
Geochemical and Expenditures)

Instructions: Please type or print.  
If number of mining claims traversed  
exceeds space on this form, attach a list.  
Note: Only days credits calculated in the  
"Expenditures" section may be entered  
in the "Expend. Days Cr." columns.  
Do not use shaded areas below.

(file 664-063)

Mining Act

Type of Survey: **GEOLOGICAL** *W 69 08 499*

Claim Holder: **ALEX H. PERRON**

Address: **103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONT. P2N 1A9**

Survey Company: **PERRONS' INC.**

Name and Address of Author (of Geo. Technical report): **MARY GREER, 49 MCKELVIE AVE., KIRKLAND LAKE, ONT. P2N 2K6**

Township or Area: **CATHARINE**

Prospector's Licence No.: **K-19026**

Date of Survey (from & to): **30 Day | 09 Mo. | 84 Yr. | 12 Day | 01 Mo. | 84 Yr.**

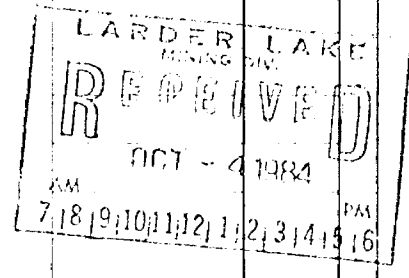
Total Miles of line Cut: **APPROX. 8 MILES**

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

| Special Provisions   | Geophysical   | Days per Claim |
|--|---|----------------|
| For first survey:<br>Enter 40 days. (This includes line cutting)                             | - Electromagnetic<br>- Magnetometer                             | 40             |
| For each additional survey:<br>using the same grid:<br>Enter 20 days (for each)              | - Radiometric<br>- Other  |                |
| Main Days<br>Complete reverse side<br>and enter total(s) here                                | Geological  |                |
|  | Geochemical   |                |
| Airborne Credits<br>Note: Special provisions<br>credits do not apply<br>to Airborne Surveys. | Geophysical   |                |
|  | - Electromagnetic<br>- Magnetometer<br>- Radiometric<br>- Other |                |
|  | Geological  |                |
|  | Geochemical   |                |

| Mining Claim |        | Expend. Days Cr. | Mining Claim |        | Expend. Days Cr. |
|--------------|--------|------------------|--------------|--------|------------------|
| Prefix       | Number |                  | Prefix       | Number |                  |
| L            | 664063 |                  |              |        |                  |
|              | 664064 |                  |              |        |                  |
|              | 664065 |                  |              |        |                  |
|              | 664066 |                  |              |        |                  |



Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures: \$  ÷ 15 = Total Days Credits:

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **4**

Date: **Oct. 4/84** Recorded Holder or Agent (Signature): *Mary Greer*

For Office Use Only

Total Days Cr. Recorded: **160** Date Recorded: **OCT 4 1984** Mining Recorder: *[Signature]*

Date Approved as Recorded: *1205 7/84* Branch Director: *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **MARY GREER 49 MCKELVIE Ave Kirkland Lake**

Date Certified: **Oct. 4/84** Certified by (Signature): *Mary Greer*



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

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) GEOLOGICAL SURVEY  
Township or Area CATHARINE  
Claim Holder(s) ALEXANDER H. PERRON  
103 GOVERNMENT RD. E., KIRKLAND LAKE, ONT.  
P2N 1A9  
Survey Company PERRONS' INC.  
Author of Report MARY GREER  
Address of Author 49 MCKELVIE AVENUE, KIRKLAND LAKE, ONT.  
P2N 2K6  
Covering Dates of Survey SEPT. 30/84 - OCT. 12/84  
(linecutting to office)  
Total Miles of Line Cut 8 MILES (APPROXIMATELY)

MINING CLAIMS TRAVERSED  
List numerically

| (prefix) | (number) |
|----------|----------|
| L        | 642535   |
| L        | 642536   |
| L        | 642537   |
| L        | 642538   |
| L        | 664063   |
| L        | 664064   |
| L        | 664065   |
| L        | 664066   |

SPECIAL PROVISIONS  
CREDITS REQUESTED

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

ENTER 20 days for each  
additional survey using  
same grid.

|                   | DAYS<br>per claim |
|-------------------|-------------------|
| Geophysical       |                   |
| - Electromagnetic |                   |
| - Magnetometer    |                   |
| - Radiometric     |                   |
| - Other           |                   |
| Geological        | 40                |
| Geochemical       |                   |

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: November 1/84 SIGNATURE: Mary Greer  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications Ph.D.

Previous Surveys

| File No. | Type | Date | Claim Holder |
|----------|------|------|--------------|
|          |      |      |              |
|          |      |      |              |
|          |      |      |              |
|          |      |      |              |
|          |      |      |              |
|          |      |      |              |
|          |      |      |              |
|          |      |      |              |

RECEIVED

NOV 06 1984

MINING CLAIMS SECTION

TOTAL CLAIMS 8

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 337 Number of Readings
Station interval 100 FEET Line spacing 400 FEET
Profile scale
Contour interval

MAGNETIC

Instrument
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
Base Station location and value

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

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) \_\_\_\_\_

Instrument(s) \_\_\_\_\_  
(specify for each type of survey)

Accuracy \_\_\_\_\_  
(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken \_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_

General \_\_\_\_\_

ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_

2.7379

Seal.

Seal.

Li-642535

✓

664063

✓

36

✓

64

✓

37

✓

65

✓

642538

✓

664066

✓

D.K.

McELROY TP. M. 366

NOTES

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

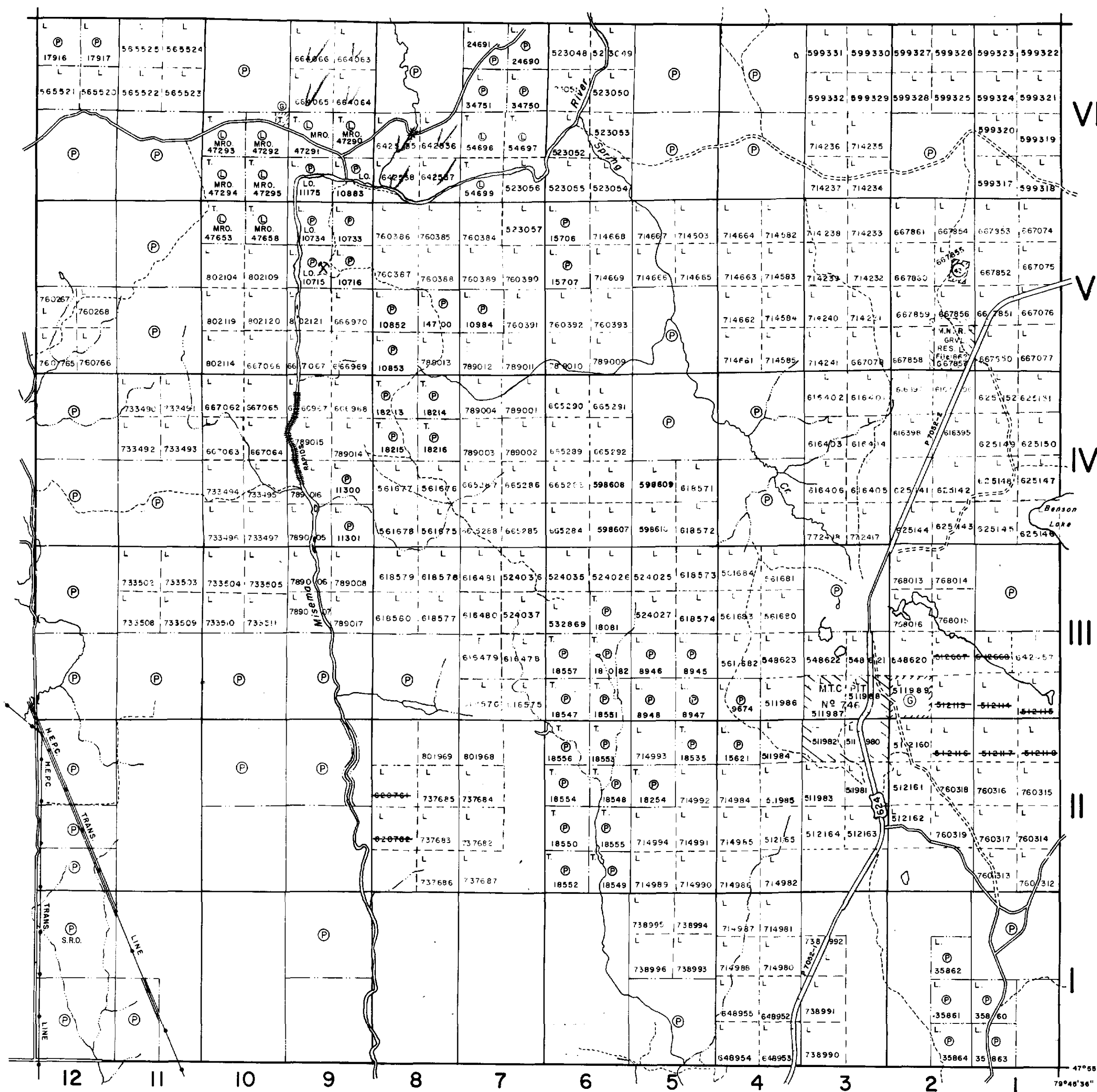
As withdrawn from staking under Section 43 of the Mining Act

| File          | Date     | Disposition |
|---------------|----------|-------------|
| W.54/74 26940 | 10/10/74 | S.R.O.      |

DATE OF ISSUE  
OCT 12 1984  
Ministry of Natural Resources  
TORONTO

PACAUD TP. M. 380

SKEAD TP. M. 387



LEGEND

|  |              |
|--|--------------|
| PATENTED LAND  | (P) or (●)   |
| PATENTED FOR SURFACE RIGHTS ONLY                                 | (○)          |
| LEASE  | (○)          |
| LICENSE OF OCCUPATION  | L.O.         |
| CROWN LAND SALES   | C.S.         |
| LOCATED LAND   | Loc.         |
| CANCELLED  | C.           |
| MINING RIGHTS ONLY   | M.R.O.       |
| SURFACE RIGHTS ONLY  | S.R.O.       |
| HIGHWAY & ROUTE NO.  | (17)         |
| ROADS  | —            |
| TRAILS   | - - -        |
| RAILWAYS   | —+—          |
| POWER LINES  | — —          |
| MARSH OR MUSKEG  | (wavy lines) |
| MINES  | (X)          |
| QUARRY PERMIT  | (Q)          |
| *used only with summer resort locations or when space is limited |              |

TOWNSHIP OF  
**CATHARINE**  
DISTRICT OF  
TIMISKAMING  
LARDER LAKE  
MINING DIVISION  
SCALE : 1 INCH = 40 CHAINS (1/2 MILE)

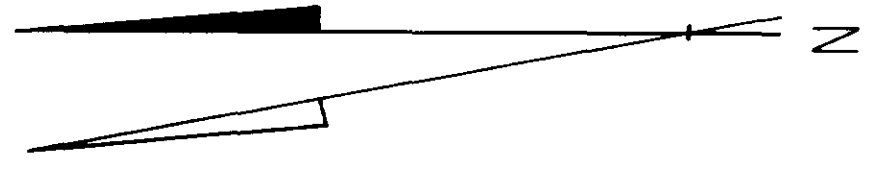
DR. K.K.I.  
DATE JUNE '72  
PLAN NO. **M. 336**

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH



MARTER TP. M. 543





### SYMBOLS

- Outcrop
- Trench
- River
- Creek
- Forest boundary
- Alder
- Spruce, balsam fir
- Jack pine
- Poplar, birch
- Claim post
- Claim line
- Primary access road
- Secondary access road

### LEGEND

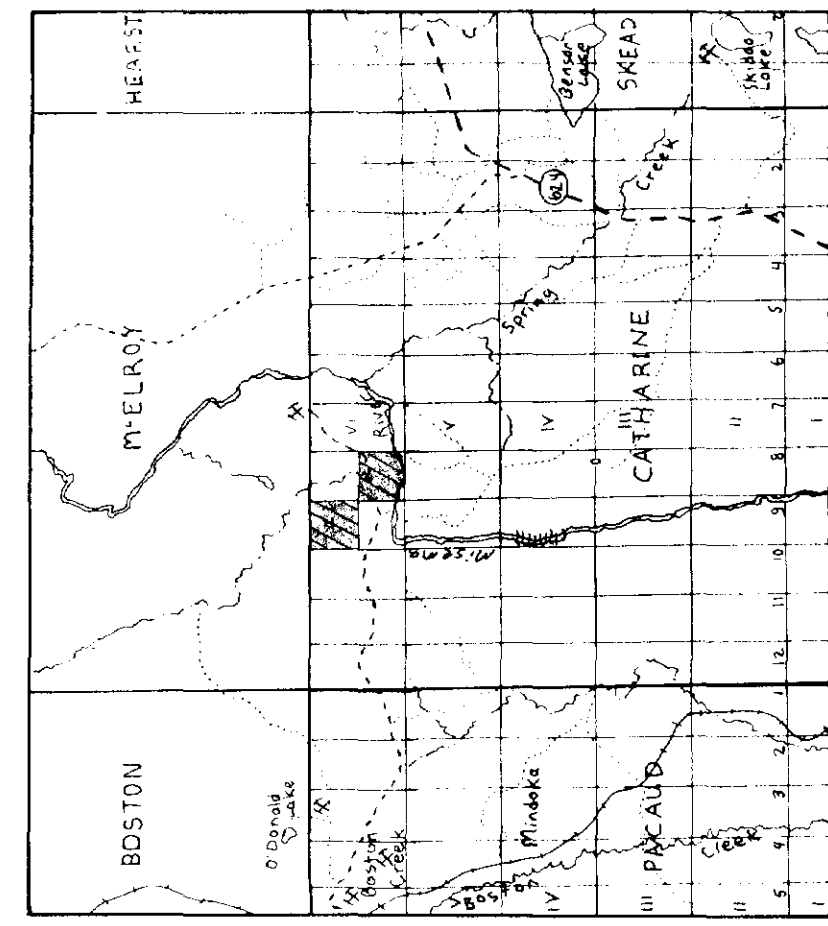
#### QUATERNARY

- Pleistocene
- Clay, sand and gravel indicated by the lighter colours on map

#### PRECAMBRIAN

- Keewatin
- Dacite and andesite, aphanitic tuff
- Agglomerate

#### KEY MAP



### MISEMA EIGHT GRID

27379

### GEOLOGICAL SURVEY

CON. VI LOTS 8 & 9  
CATHARINE TOWNSHIP  
LARDER LAKE MINING DIVISION  
DISTRICT OF TIMSKAMING, ONTARIO

1 inch to 200 feet

PERARONS' 83 LIMITED  
HIGHLAND LAKE  
CANADA

Drawn by: Mary Geer Drawing No. 8 81-13 Date: October 1984

M<sup>c</sup>ELROY TOWNSHIP  
CATHARINE TOWNSHIP

Township Line

L 36.00 W

L 32.00 W

L 28.00 W

L 24.00 W

L 20.00 W

L 16.00 W

L 12.00 W

L 8.00 W

L 4.00 W

L 4.00 E

L 8.00 E

L 12.00 E

L 16.00 E

L 20.00 E

L 24.00 E

L 28.00 E

L 32.00 E

CON. VI

L 664063

L 664064

L 664065

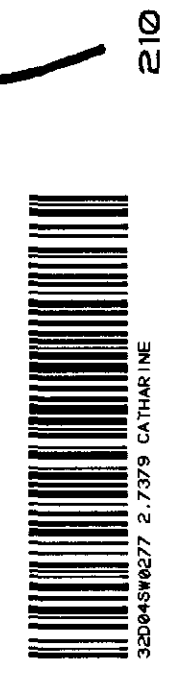
L 642535

L 642536

L 642538

Lot 9

Lot 8



210