42A01SE0076 2.8374 GRENFELL

010

# GEOLOGICAL SURVEY REPORT
# ON THE
# PERRON PROPERTY
# ONE MAN MINE GROUP

GRENFELL TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO

FOR

ALEXANDER H. PERRON

RECEIVED
AUG 22 1985
MINING LANDS SECTION

AUGUST 11, 1985

MARY GREER
GEOLOGICAL TECHNICIAN

42A01SE0076 2.8374 GRENFELL

010C

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# ILLUSTRATIONS

Claim Location Map - (Figure 1a). . . . . 2a)

Location Map - (Figure 1b). . . . . 2b)

Accompanying Plan Map. . . . . In Back Pocket

Scale: 1 inch to 200 feet

Date: August, 1985

One Man Mine Group

Geological Survey

Map No. 85-OMM-G-1

GEOLOGICAL SURVEY REPORT
ON THE
PERRON PROPERTY
ONE MAN MINE GROUP
GRENFELL TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO

## INTRODUCTION

The One Man Mine Group was recorded by William Scott on July 31, 1985.

During the period of July 27 to July 30, 1985, a geological survey was completed describing topography and any visible outcrops. The geological survey was conducted by and under the active supervision of Mary Greer with John Malnerich of Kenogami, Ontario, assisting.

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

The purpose of this report is to briefly describe the results obtained in said survey.

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

## PROPERTY DESCRIPTION

The One Man Mine Group consists of three (3) contiguous unpatented mining claims located in Grenfell Township, Larder Lake Mining Division, District

of Timiskaming, Ontario. The claim numbers are L-802851, L-802852 and L-802853.

Ownership of the claims has been attested to by Alexander H. Perron of 103 Government Road East, Kirkland Lake, Ontario, and was not independently ascertained by the writer.

## LOCATION AND ACCESS

The location of the One Man Mine Group is in the southeast corner of Grenfell Township, approximately one mile from the hamlet of Kenogami Lake.

The property is located approximately ten (10) miles west of the town of Kirkland Lake on highway No. 66, a half mile north on highway No. 11, then one and a half miles east on secondary highway No. 568 to Kenogami Station, then the property is accessible on foot via the Ontario Northland Railraod. The group is also accessible by boat on the Blanche River travelling east from the hamlet of Kenogami Lake. (See figure 1a and 1b).

## PREVIOUS WORK

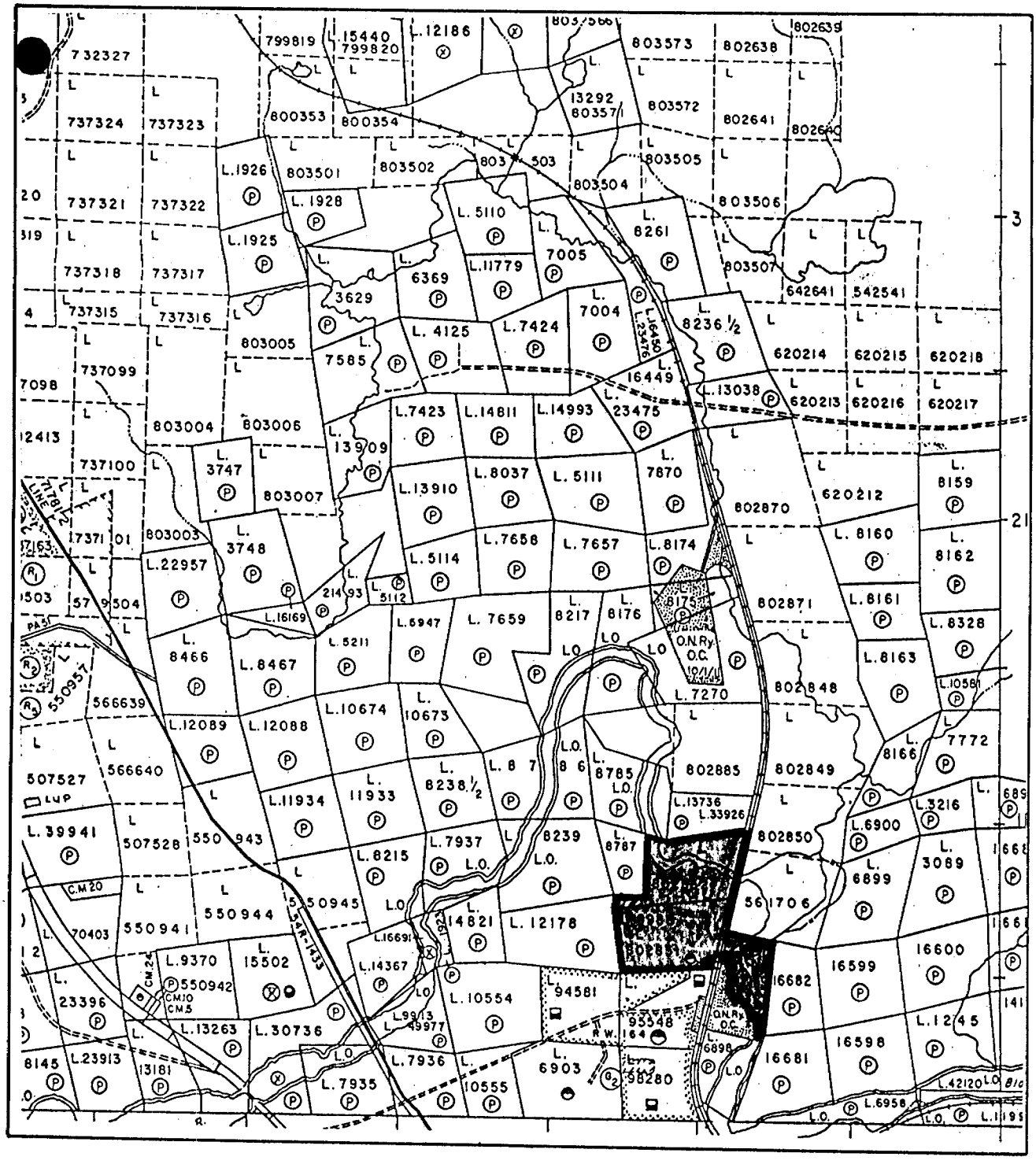
There was no signs of trenching or previous work noticed in the bush. No records of any work is available.

## SURVEY PROCEDURE

The geological survey was carried out by using compass and pace traverse lines. Any topographical features or outcrops were then noted along the traverse lines. A canoe was also used to reach areas unaccessible by water.

## TOPOGRAPHY

The Perron property consists of low swampy areas surrounding large areas

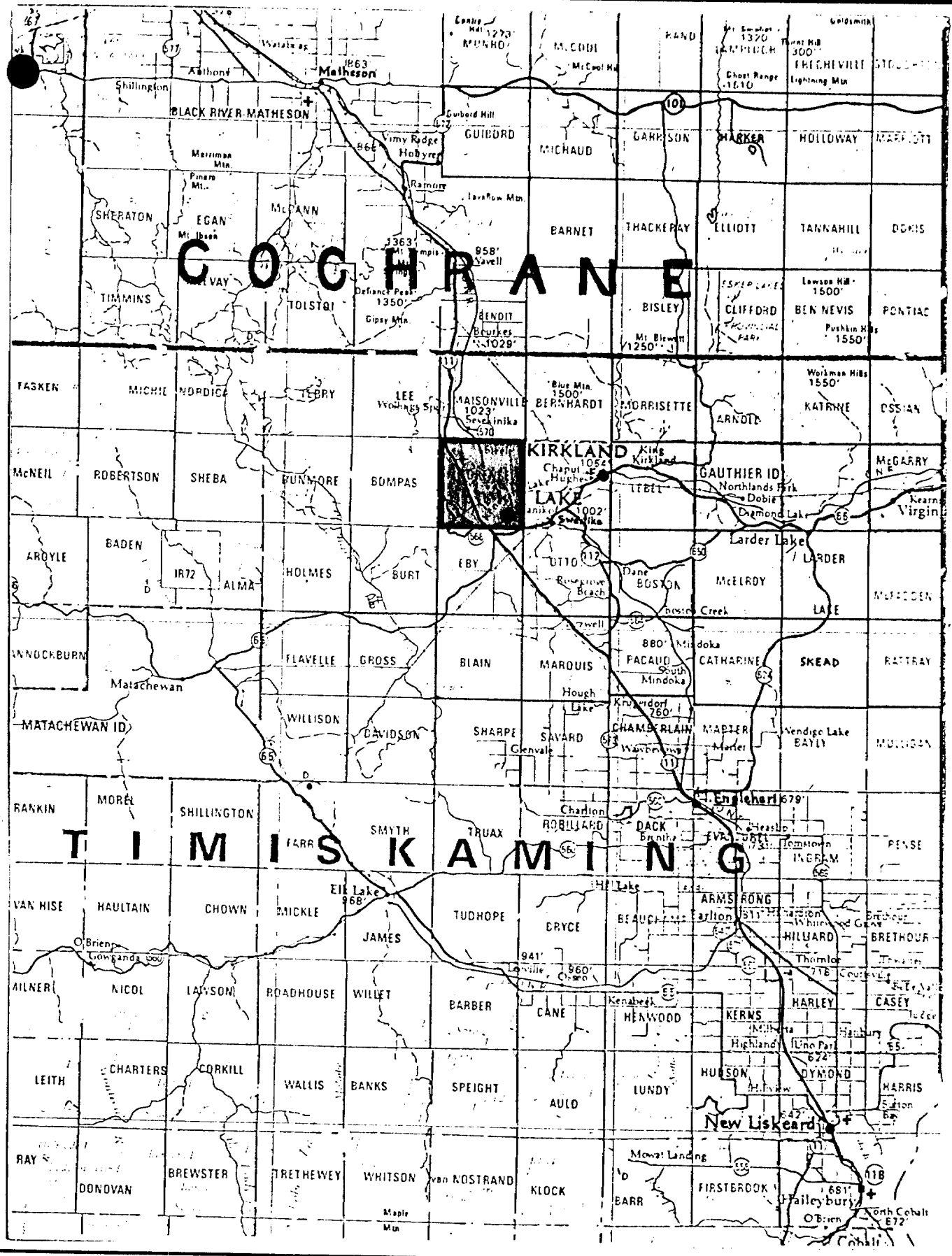



# Claim Location Map

Scale: 1 inch to 1/2 mile

(Taken from a Mar. 1985 claim map)

Figure 1a




# Location Map

Miles 10 0 10 20

Figure 1b

of outcrop with the Blanche River flowing through two of the claims. Claim L-802852 has the Blanche River flowing east through the claim, and claim L-802853 has the River flowing south around a large island in the centre.

## GENERAL GEOLOGY

According to the O.D.M. Geological Map No. 2060 covering the townships of Bompas and Grenfell, the underlying bedrock of the One Man Mine Group is illustrated as being primarily an undifferentiated intermediate and basic volcanic rock.

Other rock types surrounding the One Man Mine Group is illustrated as three (3) rock types merging together. A conglomerate, conglomeratic arkose and greywacke to the west; and tuff and agglomerate, trachyte and trachytic agglomerate and breccia to the northeast-southwest. The largest type consists of volcanic flows of basalt, andesite, dacite and gabbro diabase and diorite to the north. The volcanic flows are trending north-northwest to the south-southwest and the lava flows are facing east.

## ECONOMIC GEOLOGY

Directly due east, approximately one mile along strike is the Four Nations Consolidated Gold Mines Limited abandoned mine, presently known as the A. E. Campbell Estate.

Mining operations were carried out on the property prior to 1033 and continues until November, 1934. A shaft was sunk to 500 feet on claim L-14,821 and had levels opened at 125, 250, 375 and 500 feet with a considerable amount of lateral work done.

The mine workings and the property to the north is underlain by interbanded diorite and basic volcanics of the Keewatin Series.

The veins strike N 55° - 60° E and dip 65° - 75° S. The No. 1 vein consists of a four (4) foot width of quartz veinlets and pyritized wall rock, the quartz is one to two (2) feet in width and is very sparsely mineralized. An incomplete plan of the No. 1 vein shows all assays to be less than 0.11 oz/ton in gold across drift width.

Underground exploration was done on the 500 foot level, and a sheared zone lying about 250 feet southeast was examined. This zone strikes N 70° E and dips steeply to the south. The sheared zone is from thirty (30) to forty (40) feet in width and contains some white quartz stringers, but gold values were low.

To the north of the river the «Allen Vein» was found striking N 36° W with quartz stringers and vein breccia with low gold values. Northwest of the Allen Vein a northwest striking fault was found.

## PRESENTATION OF FIELD OBSERVATIONS

The field data is presented on a map at a horizontal scale of one inch to 200 feet, Map No.: 85-OMM-G-1 found in the back pocket of the report.

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

### i) Topography:

The topography will be described by individual claim numbers starting with the northwest claim, L-802852.

The claim is divided by the Blanche River flowing east through the north half. North of the river the topography is flat with dense bush of scrub poplar and alder. The areas of outcrop are covered by spruce, balsam fir and birch. South of the river the claim is covered by spruce and jack pine on the areas of exposed outcrop which jut out of the surrounding lower area of poplar and dense alder.

Claim L-802851 consists of much of the same topography as claim L-802852. The southern boundary has a high exposure of outcrop with an approximate height of 60 feet.

Claim L-802853 consists of very low ground covered in swamp and alder. The Blanche River flows south through the claim around a island found in the centre of the claim.

ii) Geology:

a) Magnesium Rich Tholeiitic Basalt

This rock type had the highest percentage of exposed rock. It can be described as a medium grey-green rock with a slightly conchodial fracture. The texture was aphanitic with very fine grained granular surface. There was no structure noted, consisting of very massive flows. And little alteration. A similar rock type was also found in large flows, although the texture was different, being aphanitic with an ophitic texture in spots. The general characteristics are the same as the fine grained outcrops.

b) Timiskaming Series

In the Timiskaming Series two (2) main rock types were noted; interbedded conglomerate and grey wacke and tuff and agglomerates. The conglomerates consist primarily of round to ovoid boulders. Some outcrops consist of pebbles which show good sorting. The pebbles are jasper, chert, quartz, syenite, rhyolite and pink trachyte. The conglomerate matrix appears to be a sandy grey wacke. The grey wacke weathers dark grey and is medium to fine grained rock. There are visible angular grains of quartz and some chlorite and carbonate material.

The tuffs weather to a light pink colour, some grains are visible, mainly feldspar or trachyte. The tuffs may be water laid deposits, due to some distinct bedding lines.

c) Huronian Conglomerate

The conglomerate is a pink-grey in colour. The subrounded

pebbles consist of granitic rocks, gabbro and diabase are also found in the pebbles. The approximate size of the pebbles is about 1 to 4 centimeters. The matrix is a fine grained grey colour, and was difficult to see it's components.

A small intrusion of quartz-feldspar porphyry was found on the east shore of L-802853 and is a pink medium grained rock. There is generally visible crystals of feldspar which may be orthoclose, any ferromagnessian minerals found probably are horneblende or biotite.

## CONCLUSIONS AND RECOMMENDATIONS

The geological survey was performed to generally describe the surface features and rock types prior to a geophysical survey. Areas of interest that were found is along the Blanche River on L-802853. This is part of the Kirkland Lake - Larder Lake Break system.

It is recommended that a geophysical survey be performed over the group to further delineate any underlying bedrock.

Respectfully submitted,

Mary Green

August 11, 1985

Mary Green
Geological Technician

# BIBLIOGRAPHY

James A. Grant

1964: Geological Report No. 30
Bompas and Grenfell Townships
ONTARIO DEPARTMENT OF MINES

1946: Map No. 1946-1
Kenogami: Lake area
District of Timiskaming, Ontario
Scale: 1 inch to 1,000 feet

# 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, Ontario, 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 Limited 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.

August 11/85
Date

Mary Greer
Mary Greer
Geophysical Technician

W8508002.64

Ministry of Natural Resources
Ontario

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

283

42A01SE0076 2.8374 GRENFELL

900

Mir.

(Claim L802851)

| Type of Survey(s) | Township or Area |
|---|---|
| GEOLOGICAL | GRENFELL |

| Claim Holder(s) | Prospector's Licence No. |
|---|---|
| ALEX H. PERRON | K-19026 |

Address: 103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONTARIO P2N IA9

| Survey Company | Date of Survey (from & to) | Total Miles of line Cut |
|---|---|---|
| PERRONS | 27 07 85 (Day Mo. Yr.) 30 07 85 (Day Mo. Yr.) | - |

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

Credits Requested per Each Claim in Columns at right

| Special Provisions | | Days per Claim |
|---|---|---|
| For first survey: Enter 40 days. (This includes line cutting) | Geophysical | |
| | - Electromagnetic | |
| | - Magnetometer | |
| For each additional survey: using the same grid: Enter 20 days (for each) | - Radiometric | |
| | - Other | |
| | Geological | 20 |
| | Geochemical | |

| Man Days | | Days per Claim |
|---|---|---|
| Complete reverse side and enter total(s) here | Geophysical | |
| | - Electromagnetic | |
| | - Magnetometer | |
| | - Radiometric | |
| | - Other | |
| | Geological | |
| | Geochemical | |

| Airborne Credits | | Days per Claim |
|---|---|---|
| Note: Special provisions credits do not apply to Airborne Surveys. | Electromagnetic | |
| | Magnetometer | |
| | Radiometric | |

LARDER LAKE MINING DIV. RECEIVED JUL 31 1985 AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

Mining Claims Traversed (List in numerical sequence)

| Mining Claim Prefix | Mining Claim Number | Expend. Days Cr. |
|---|---|---|
| L | 802851 | |
| | 802852 | |
| | 802853 | |

| Mining Claim Prefix | Mining Claim Number | Expend. Days Cr. |
|---|---|---|
| | | |

RECEIVED
AUG 7 1985
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 3

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.

For Office Use Only

| Total Days Cr. Recorded | Date Recorded | Mining Recorder |
|---|---|---|
| 60 | JUL 31 1985 | |
| | Date Approved as Recorded: 85-08-27 | Branch Director |

Date: July 30 85 — Recorded Holder or Agent (Signature): Mary Greer

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 AVENUE, KIRKLAND LAKE, ONTARIO P2N IA9

Date Certified: July 30 85 — Certified by (Signature): Mary Greer

1362 (81/9)

Ontario

Ministry of Natural Resources

File _____

# 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 GRENFELL TOWNSHIP
Claim Holder(s) ALEXANDER H. PERRON
103 GOV'T.RD.E.,KIRKLAND LAKE,ONT.
Survey Company PERRONS
Author of Report MARY GREER
Address of Author 49 MCKELVIE AVE., KIRKLAND LAKE,ONT
Covering Dates of Survey JULY 27 - JULY 30, 1985
(linecutting to office)
Total Miles of Line Cut --

**MINING CLAIMS TRAVERSED**
**List numerically**

| (prefix) | (number) |
|---|---|
| L | 802851 |
| L | 802852 |
| L | 802853 |

TOTAL CLAIMS 3

If space insufficient, attach list

**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 _____
–Magnetometer _____
–Radiometric _____
–Other _____
Geological 20
Geochemical _____

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

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

DATE: August 11/85 SIGNATURE: Mary Greer
Author of Report or Agent

Res. Geol. _____ Qualifications 24529

Previous Surveys

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

OFFICE USE ONLY

837 (5/79)

## GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

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 _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

PERRONS

103 GOVERNMENT ROAD EAST - KIRKLAND LAKE, ONTARIO - P2N 1A9 - (705) 567-7057

August 16, 1985

REGISTERED MAIL

Mr. Fred Matthews,
Lands Administration Branch,
Mining Lands Section,
Ministry of Natural Resources,
Room 6450, Whitney Block,
Queen's Park,
Toronto, Ontario
M7A IW3

RECEIVED
AUG 22 1985
MINING LANDS SECTION

Dear Sir:

RE: Technical Report for
Grenfell Township
Larder Lake Mining Division

Enclosed herewith please find a duplicate copy of the following:

- Report dated August 11, 1985, by Mary Greer entitled:

  Geological Survey Report
  on the Perron Property
  One Man Mine Group
  Grenfell 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,

PERRONS

Mary Greer

Mary Greer,
Geological Technician

MG/p
Encls.2

Mining Lands Section

File No 28374

Control Sheet

TYPE OF SURVEY

____ GEOPHYSICAL

__✓__ GEOLOGICAL

____ GEOCHEMICAL

____ EXPENDITURE

MINING LANDS COMMENTS:

< Grenfell >

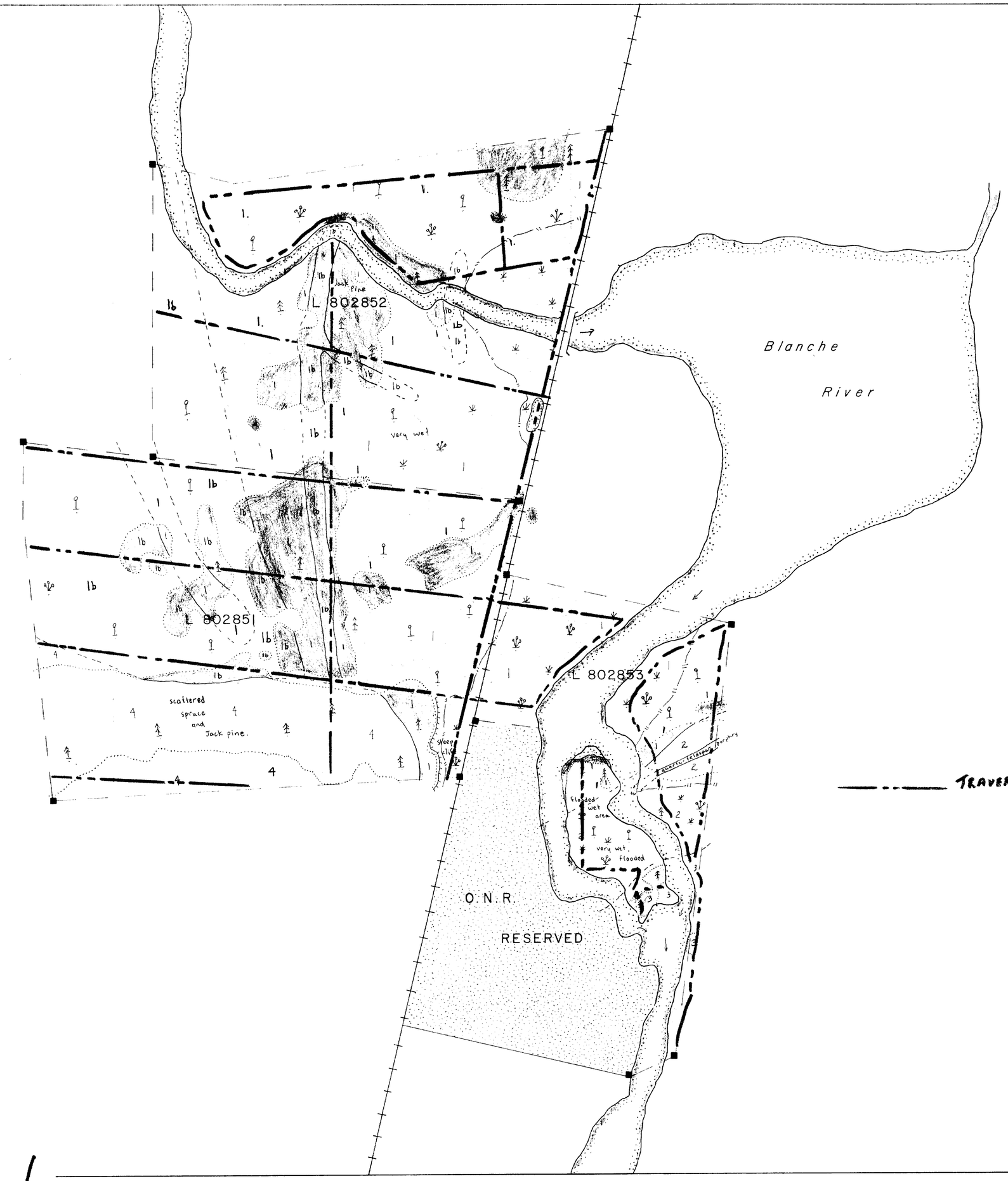
Lgd.

LS.

Signature of Assessor

Aug. 27/85

Date




Mag. N10°W

N

## SYMBOLS & LEGEND

- Outcrop
- 80° Strike and dip
- Geological boundary (known)
- Geological boundary (inferred)
- Poplar, birch
- Alder
- Spruce, balsam fir
- River
- Wet areas
- Railroad
- Access road

**Quaternary**

PLEISTOCENE

- Clay, sand and gravel, till

**Precambrian**

HURONIAN (Cobalt group)

- 4 Conglomerate

TIMISKAMING

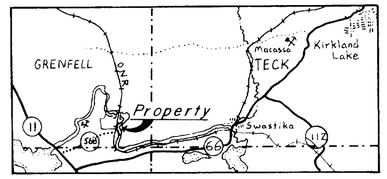
- 3 Tuff and agglomerate
- 2 Conglomerate, greywacke

KEEWATIN

- 1. Tholeiitic basalt
- 1b Gabbro, diabase, diorite

## KEY MAP

(Scale: 1 inch to 2 miles)




# ONE MAN MINE GROUP

## GEOLOGICAL SURVEY

GRENFELL TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO

200 0 200 400 600

Scale: 1 inch to 200 feet

PERRONS' 28374
KIRKLAND LAKE CANADA

Drawn by: Mary Greer | Map No.: 85-OMM-G-1 | Date: August 1985

42A01SE0276 2.8374 GRENFELL

1/200