



42A01NE0275 2.6989 GRENFELL

010

GEOLOGICAL SURVEY REPORT

ON THE

PERRON PROPERTY

PERRON-GRENFELL GRID

GRENFELL TOWNSHIP

LARDER LAKE MINING DIVISION

DISTRICT OF TIMISKAMING, ONTARIO

FOR

ALEXANDER H. PERRON

**RECEIVED**

JUL 26 1984

MINING LANDS SECTION

JULY 24, 1984

MARY GREER

GEOLOGICAL TECHNICIAN



42A01NE0278 2.6989 GRENFELL

010C

TABLE OF CONTENTS

INTRODUCTION. . . . . 1, 2

PROPERTY DESCRIPTION. . . . . 2

LOCATION AND ACCESS . . . . . 2

PREVIOUS WORK . . . . . 2, 3

SURVEY PROCEDURE. . . . . 3

TOPOGRAPHY. . . . . 3

GENERAL GEOLOGY . . . . . 3, 4

ECONOMIC GEOLOGY. . . . . 4

PRESENTATION OF FIELD RESULTS . . . . . 5, 6

CONCLUSIONS AND RECOMMENDATIONS . . . . . 6, 7

BIBLIOGRAPHY. . . . . 8

CERTIFICATE . . . . . 9

ILLUSTRATIONS

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

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

Grid Sketch - (Figure 2) . . . . . 3 a)

Accompanying Plan Map. . . . . In Back Pocket

Scale: 1 inch to 200 feet

Date: July 1984

Perron - Grenfell Grid

Geological Survey

Drawing No. P-G: 84-3

GEOLOGICAL SURVEY REPORT  
ON THE  
PERRON PROPERTY  
PERRON-GRENFELL GRID  
GRENFELL TOWNSHIP  
LARDER LAKE MINING DIVISION  
DISTRICT OF TIMISKAMING, ONTARIO

INTRODUCTION

The Perron-Grenfell Group was recorded by Alexander H. Perron on July 27, 1981, for claims L-620212-218 (inclusive) and September 1, 1982, for claims L-642541 and L-642641.

A geophysical grid, at a 400 foot line spacing, was subsequently established by A. H. Perron in March of 1982. Two geophysical surveys, (electromagnetic and magnetic) were completed over the entire Perron-Grenfell Group. (See Regional Geologist Files).

In June of 1984, a geological survey was completed, describing topography and identifying the visible outcrops.

The geological survey was completed by Mary Greer with Alexander H. Perron assisting, all 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 integral part of this report.

PROPERTY DESCRIPTION

The Perron-Grenfell grid consists of a contiguous block of nine (9) unpatented mining claims located in Grenfell 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-620212 to L-620218 (inclusive)	7
L-642541	1
L-642641	<u>1</u>
Total No. of Claims	<u>9</u>

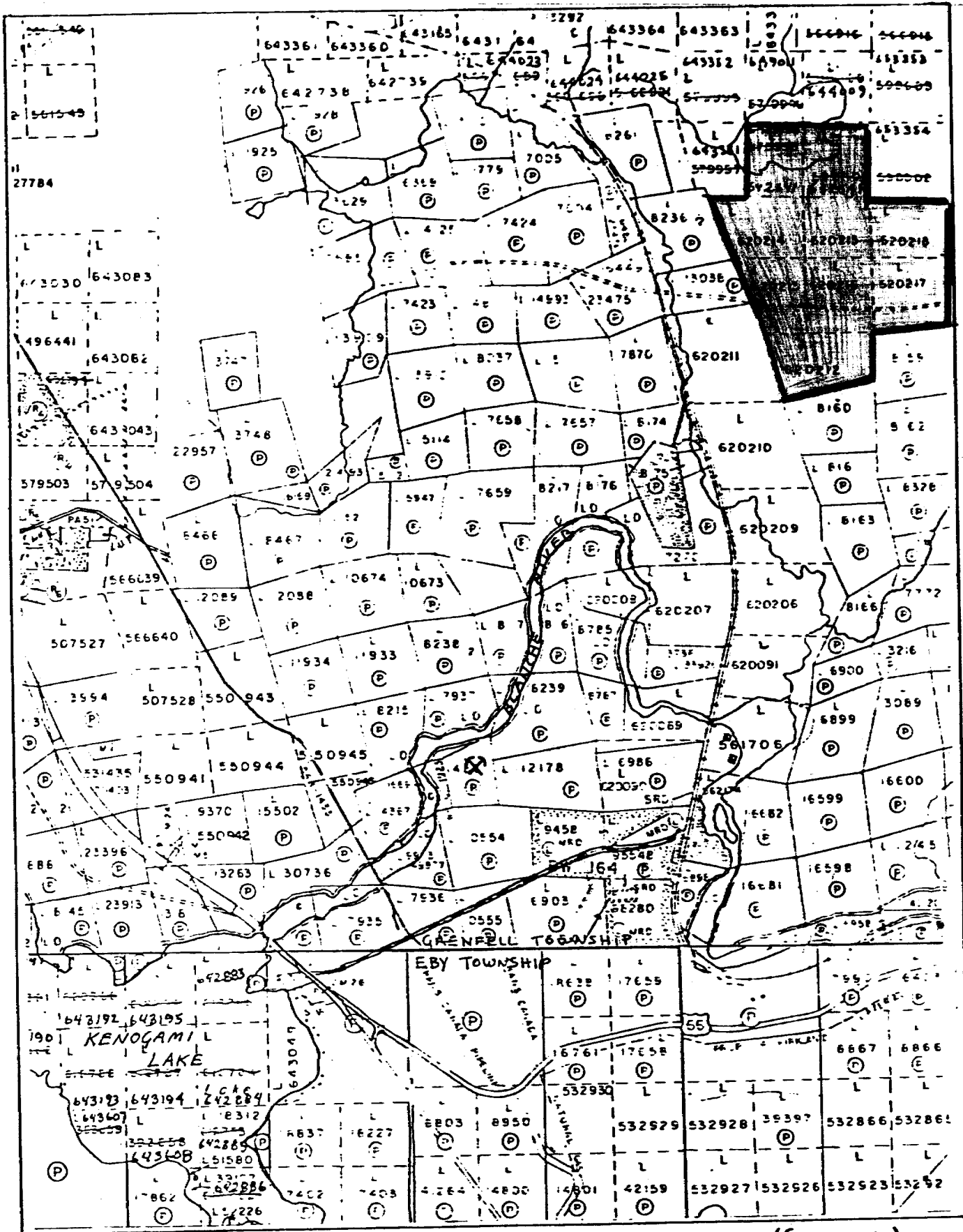
LOCATION AND ACCESS

The location of the Perron-Grenfell Group is along the eastern township boundary of Grenfell-Teck, between the two (2) and three (3) mile boundary posts.

The property is located approximately seven (7) miles west of the town of Kirkland Lake. The property is accessible via the Goldthorpe Road and extends westward approximately five (5) miles from the town of Chaput Hughes. (See figure 1a and 1b).

PREVIOUS WORK

The property is spotted with trenchings and old workings of which

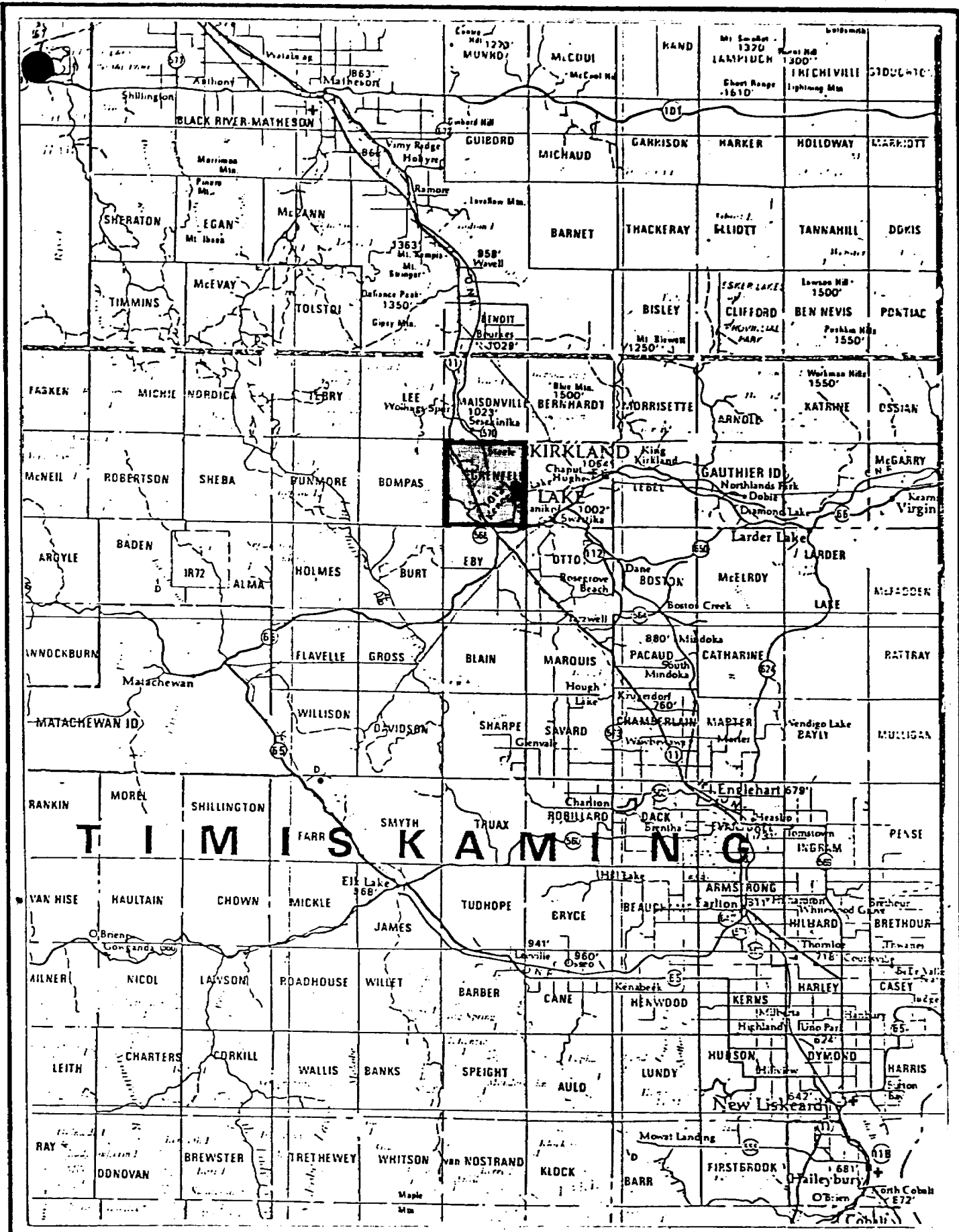


(figure 1d)

# Claim Location Map

Scale: 1 inch = 1/2 mile

(taken from January 1985 Grenfell claimm)



# Location Map

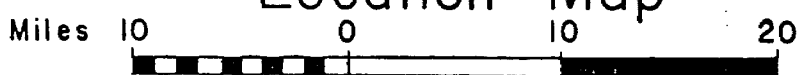


Figure 1b

no known data is available. There are two (2) gold showings found on the property, one along the south shore of Cook Lake on L-642541, and a visible gold showing in the centre of the property on L-620215. (See figure 2).

#### SURVEY PROCEDURE

A baseline was established N 60° W across the Perron-Grenfell property for a total footage of 7,300 feet.

A grid system of picket lines at 400 foot spacings with stations every 100 feet, was cut at right angles to the baseline.

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

#### TOPOGRAPHY

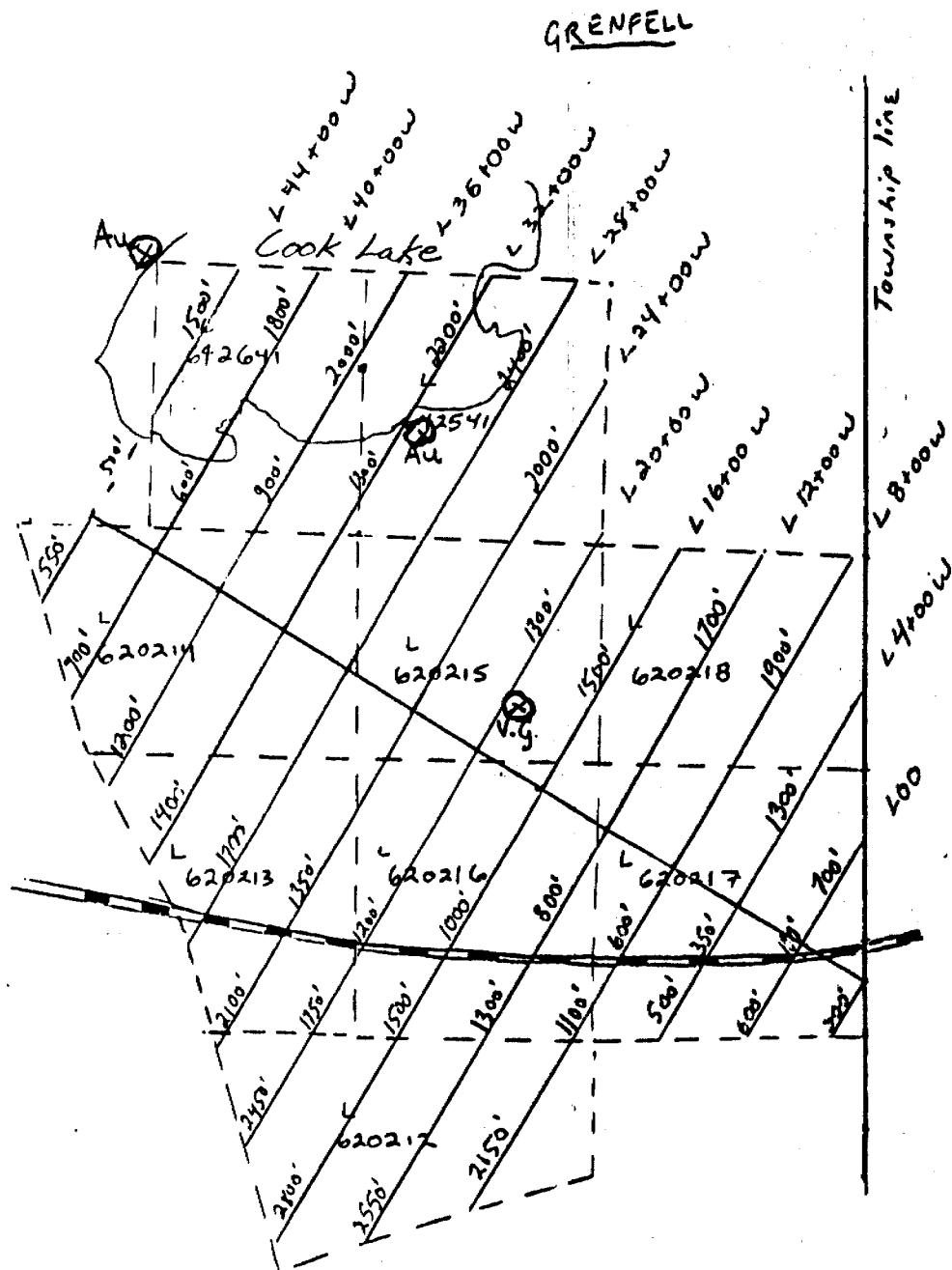
The general terrain consists of high exposed outcrop in the centre of the property. With Cook Lake to the north and a beaver pond and a creek along the east side.

The property is covered largely by poplar, birch and spruce, with areas of scrub bush and alder.

#### GENERAL GEOLOGY

According to the O.D.M. Geological Map No. 2060 covering the townships of Bompas and Grenfell, the underlying bedrock of the Perron-Grenfell grid claims is illustrated as being primarily basic volcanic rock.





(figure 2)

## Perron-Grenfell Group Grid Sketch

Scale 1" = 1000'

Drawn for:

Alexander H. Perron

Drawn by:

Mary Greer

Date: February 7, 1983

The volcanics occur as basalt, andesite and dacite flows. Gabbro, diabase and diorite can also be found, occurring as coarser centres of flows and intrusives into the lava sequence.

#### ECONOMIC GEOLOGY

Gold was first discovered in the vicinity of Larder Lake in 1903 and claims were staked for gold in the vicinity of Kirkland Lake and Swastika during the gold rush of 1906.

The main Kirkland Lake gold camp started mining in 1913 and was the second largest producer of gold in Ontario and Canada. The bulk of the gold ore came from the eastern part of Teck township mined by famous mines such as Kirkland Lake Gold, Teck-Hughes, Lakeshore, Wright Hargreaves, Sylvanite and Toburn.

Presently, the only producing mine is the Wilroy Mines Limited, Macassa Division. The Macassa Mine is only five (5) miles east of the Perron Property.

Directly due south southeast, approximately two (2) miles, is the Four Nations Consolidated Gold Mines. Mining operations were carried out on the property prior to 1933 and continued to November, 1934.

## PRESENTATION OF FIELD RESULTS

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

For the purpose of this presentation, due to the large amount of visible outcrop, refer to the accompanying plan map for the outcrop location. The topography will also be described in greater detail.

### i) Topography:

To the north of the property lies Cook Lake and a beaver pond system extends along the northwest side of the property. The lines crossing the pond are L0+00, L 4+00 W, L 8+00 W and L 12+00 W.

Over 75% of the property is covered by poplar, birch and spruce. The terrain is very rugged with an exceptionally large outcrop formation in the centre of the claims. This is a very high formation rising approximately 100 feet above the surrounding low areas.

### ii) Geology:

Only one main age group was noted on the Perron-Grenfell Grid. The age group is of the Pre-Cambrian Series, being basic volcanic rocks, primarily gabbro, diabase, basalt and andesite.

The gabbro and diabase rock composes 75% of the visible outcrop and appears to intrude into the basalt lavas. No distinct

contact was found however to prove this observation. The gabbro and diabase may also be the more coarsely grained portions of thick flows.

The gabbros are grey-greenish black in colour and are medium to coarse grained in colour. Some visible minerals could be identified. They are plagioclase and pyroxene and hornblende. The rusty stains indicate iron oxides present and quartz may be less than 5%. The samples examined showed some ophitic texture. The apparent diabase found is mapped as gabbro, appearing only to be a variety of the grain size in the gabbroic flows.

The basalt was found in the south and southeast corner of the property. Pillow structure was also noted on some of the outcrops mapped.

The basalt examined was a very fine to fine grained light grey rock. Due to the aphanitic texture it is difficult to see any mineral types. It may be that the mineralogy may be the same for the basaltic flows and the gabbroic flows. The gold showings occur along quartz veins in the gabbro flows, with sulphide association.

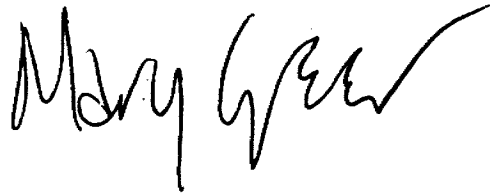
#### CONCLUSIONS AND RECOMMENDATIONS

The outcrops are part of a large basic volcanic flow and the gold mineralization may be in the quartz veins found.

It is recommended that stripping and trenching be carried out to

obtain more data on these showings.

Respectfully submitted

A handwritten signature in black ink, appearing to read "Mary Greer". The signature is written in a cursive style with a long, sweeping flourish at the end.

July 24, 1984

Mary Greer  
Geological Technician

BIBLIOGRAPHY

James A. Grant

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

C E R T I F I C A T E

I, Mary Greer, of Lynden, Ontario, do hereby certify:

1. That I am a Geophysical Technician and reside at:  
49 McKelvie Avenue, Kirkland Lake, Ontario.
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 (5) years and I am qualified to write  
this report.
5. That I supervised and participated in this survey.

July 24/04  
Date

  
Mary Greer  
Geophysical Technician



42A01NE0276 2.6989 GRENFELL

300

Type of Survey(s) **GEOLOGICAL SURVEY** 2.0 Township or Area **GRENFELL**  
 Claim Holder(s) **ALEXANDER H. PERRON** Prospector's Licence No. **K 19026**  
 Address **103 Government Rd. E. Kirkland Lake Ontario**  
 Survey Company **Perrons' Inc.** Date of Survey (from & to) **01 07 84 / 10 07 84** Total Miles of line Cut **8 miles.**  
 Name and Address of Author (of Geo-Technical report) **MARY GREER 49 McKelvie Ave Kirkland Lake Ontario**

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: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	<b>40</b>
	Geochemical	

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

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

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
L	620212				
	620213				
	620214				
	620215				
	620216				
	620217				
	620218				
	642541				
	642541				
<b>RECEIVED</b>					
<b>JUL 19 1984</b>					
<b>MINING CLAIMS SECTION</b>					
<b>KIRKLAND LAKE</b>					
<b>MINING DIV.</b>					
<b>RECEIVED</b>					
<b>JUL 12 1984</b>					
AM PM					
7 13 19 10 11 12 1 12 3 14 15 16					

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. **9**

For Office Use Only

Total Days Cr. Recorded  Date Recorded **JUL 12 1984** Mining Recorder *[Signature]*

Date Reported as Recorded **84.10.22** *[Signature]*

Date **July 12/84** Reported 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 Ave Kirkland Lake**

Date Certified **July 12/84** Certified by (Signature) *Mary Greer*





Mining Lands Comments

*Ditto - as per file 2.7008*

To: Geophysics

*Mr. Roger Barlow*

Comments

Approved  Wish to see again with corrections

Date *Dec 15/84*

Signature *R. Barlow*

To: Geology - Expenditures

Comments

Approved  Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

**RUSH/URGENT** *lgt. L.D.*

Approved  Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

103 Government Road East,  
Kirkland Lake, Ontario  
P2N IA9

September 5, 1984

Ms. Susan Hurst,  
Land Management Branch,  
Ministry of Natural Resources,  
Whitney Block,  
Room 6643,  
Queen's Park,  
Toronto, Ontario  
M7A IW3

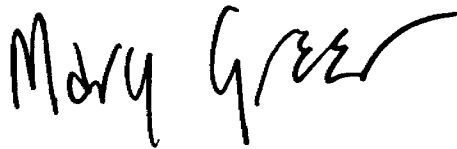
Dear Ms. Hurst:

RE: Our File #254  
Your File 2.6989  
Grenfell Township

Further to our telephone conversation of yesterday, please find enclosed our Assessment Work Breakdown completed as per your instructions.

I trust this meets with your satisfaction.

Yours very truly,



(Miss) Mary Greer,  
Geological Technician

MG/p

Encl.

<b>RECEIVED</b>	
Land Management Branch	
CIRCULATE <input type="checkbox"/>	
COMMENTS PLEASE BY <input type="checkbox"/>	
SEP 10 1984	
S. E. YOUNG	
J. R. MERRON	
J. C. SMITH	✓
W. L. GOOD	
M. J. HOGAN	
W. P. BROOK	
RETURN TO R. 6643	

**RECEIVED**  
SEP 10 1984  
MINING LANDS SECTION

Details of Assessment Work Breakdown

FIELD WORK

<u>Type of Work</u>	<u>Name &amp; Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
GEOLOGY	ALEX H. PERRON 103 GOVERNMENT RD. EAST, KIRKLAND LAKE, ONT. P2N1A9	JUNE 29/84 to JULY 10/84	12
GEOLOGY	MARY GREER 49 MCKELVIE AVENUE, KIRKLAND LAKE, ONT.	JUNE 29/84 to JULY 10/84	12

CONSULTANTS

<u>Name &amp; Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>
JOHN DUNCAN, SWASTIKA, ONTARIO	(OFFICE WORK) JULY 11/84 to JULY 12/84	2
KEN DOANE, GOVERNMENT RD. W. KIRKLAND LAKE, ONT. FIELD AND OFFICE	JULY 6/84 to JULY 8/84	3

DRAUGHTSMAN, TYPING, OTHERS. (specify)

<u>Name &amp; Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
MARY GREER, 49 MCKELVIE AVE., KIRKLAND LAKE, ONT.	DRAFTING REPORT WRITING	JULY 11/84 to JULY 24/84	14
G. PERRON, 113 FIRST ST., KIRKLAND LAKE, ONT. P2N 1N6	TYPING, PHOTOCOPYING ASSEMBLING, FINISHING REPORT	JULY 20/84 to JULY 24/84	5
TOTAL 8 HOUR TECHNICAL DAYS			48

LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
ALEX H. PERRON	103 GOV'T RD. EAST, KIRKLAND LAKE, ONT. P2N 1A9	MARCH 1/83 to MARCH 18/83	18
MARY GREER	49 MCKELVIE AVE., KIRKLAND LAKE, ONTARIO	MARCH 1/83 to MARCH 18/83	18
TOTAL 8 HOUR LINE-CUTTING DAYS			36

- 1. Type of Survey GEOLOGICAL REPORT
- 2. Township or Area GRENFELL
- 3. Numbers of Mining Claims Traversed by Survey L-620212, L-620213, L-620214, L-620215, L-620216, L-620217, L-620218, L-642541, L-642641
- 4. Number of Miles of Line Cut 8 MILES Flown \_\_\_\_\_
- \*5. Number of Stations Established \_\_\_\_\_
- \*6. Make and type of Instrument Used \_\_\_\_\_
- \*7. Scale Constant or Sensitivity \_\_\_\_\_
- \*8. Frequency Used and Power Output \_\_\_\_\_

9. Summary of Assessment Credits (details on reverse side)  
 Total 8 hour Technical Days (Include Consultants, Draughting etc.) 48  
 Total 8 hour Line-Cutting Days 36

Calculation

$$\frac{48}{\text{Technical}} \times 7 = \frac{336}{\text{Line-cutting}} + \frac{36}{\text{Line-cutting}} = \frac{372}{\text{Line-cutting}} \div \frac{9}{\text{Number of claims}} = \frac{41.3}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims  Check  
 If otherwise, please explain \_\_\_\_\_

Dated: Sept. 5/84 Signed: Mary Green

Note: (A) \* Complete only if applicable.  
 (B) Complete list of names, addresses and dates on reverse side.  
 (C) Submit separate breakdown for each type of survey.  
 (D) Submit in duplicate.



Ministry of  
Natural  
Resources

*Sept 17/84*

1984 08 27

Your File: 254  
Our File: 2.6989

Mr. George J. Koleszar  
Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

A handwritten signature in dark ink, appearing to read 'S.E. Yundt'.

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3

*Rds.* Hurst:mc

Encls.

cc: Alexander H. Perron  
103 Government Road East  
Kirkland Lake, Ontario  
P2N 2E8

cc: Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario



Ministry of  
Natural  
Resources

Ontario

Notice of Intent  
for Technical Reports

1984 08 27

2.6989/254

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Recorded Holder

ALEXANDER H. PERRON

Township or Area

GRENFELL TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p><b>Geophysical</b></p> <p>Electromagnetic _____ days</p> <p>Magnetometer _____ days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column 40</p> <p>Geological _____ days</p> <p>Geochemical _____ days</p> <p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>L 620212 to 216 inclusive</p>

Special credits under section 77 (16) for the following mining claims

30 DAYS GEOLOGICAL

L 620217-18  
642541  
642641

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       Insufficient technical data filed

1984 08 03

Your File: 254  
Our File: 2.6989

Mr. George J. Koleszar  
Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
P.O. Box 984  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 620212 et al in the Township of Grenfell.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416)965-6918

A. Barr:sc

cc: A.H. Perron  
103 Government Rd East  
Kirkland Lake, Ontario  
P2N 2E8

cc: Mary Greer  
49 McKelvie Ave  
Kirkland Lake, Ontario  
P2N 2K6



49 McKelvie Avenue,  
Kirkland Lake, Ontario  
P2N 2K6

REGISTERED MAIL

July 24, 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  
Grenfell Township  
Larder Lake Mining Division

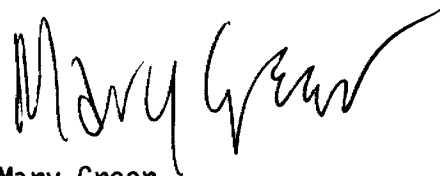
Enclosed herewith please find a duplicate copy of the following:

- Report dated July 24, 1984, by Mary Greer entitled:

Geological Survey Report  
On the Perron Property  
Perron-Grenfell Grid  
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,



Mary Greer  
Geological Technician

MG/p

Encls.

**RECEIVED**

**JUL 26 1984**

**MINING LANDS SECTION**



**GEOPHYSICAL TECHNICAL DATA**

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

Number of Stations 408 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 \_\_\_\_\_

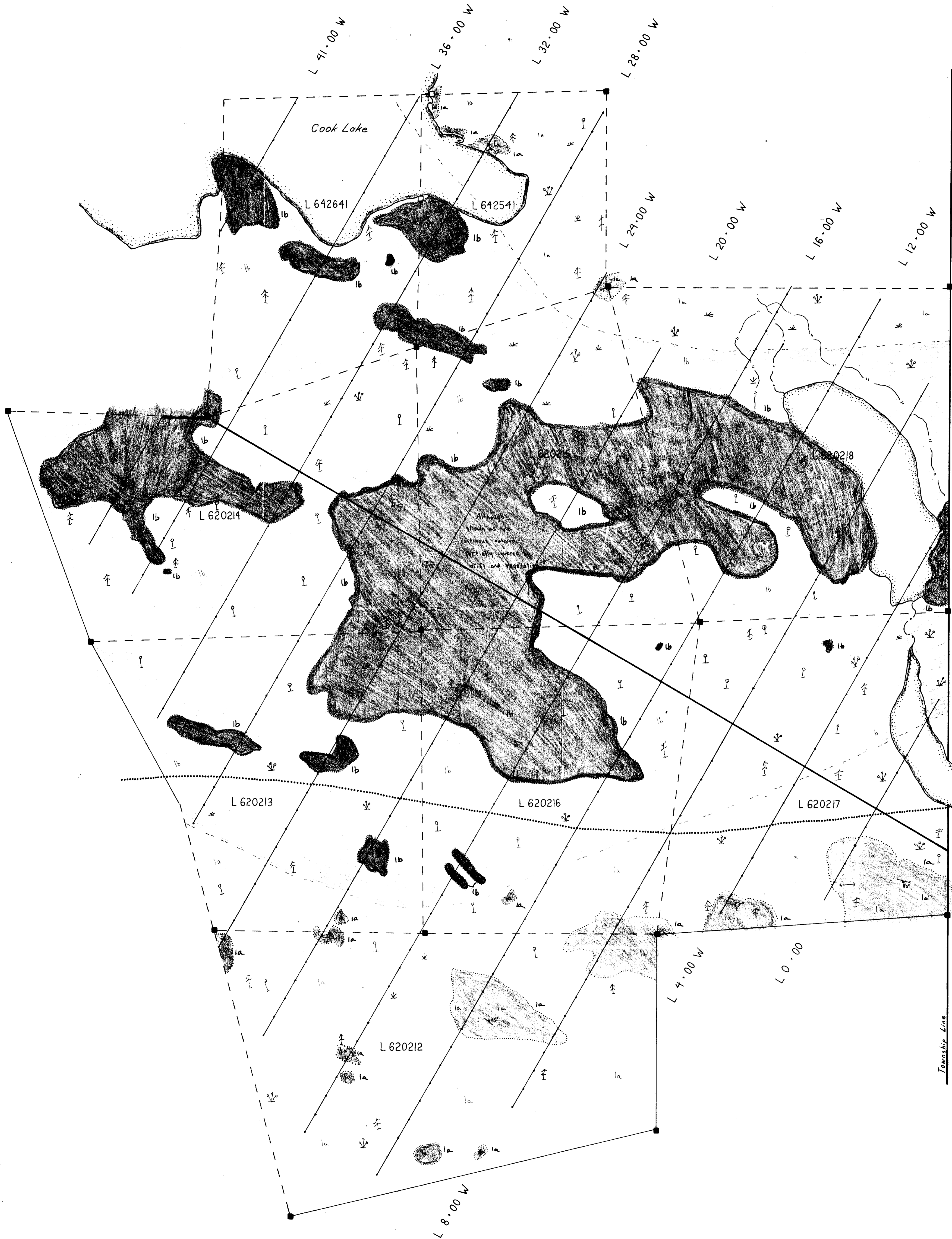
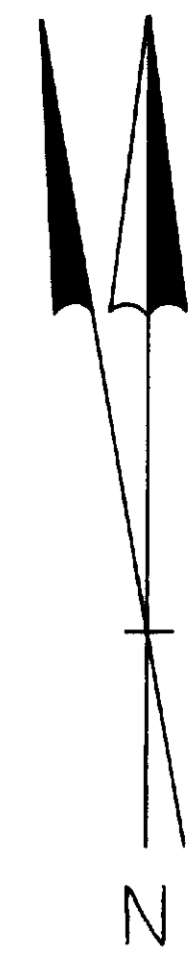


3

2.6989

620212.	✓		64254/	1/4									
13	✓		641	1/4									
14	✓												
15	✓												
16	✓												
17	1/4												
18	1/4												

3



**SYMBOLS**

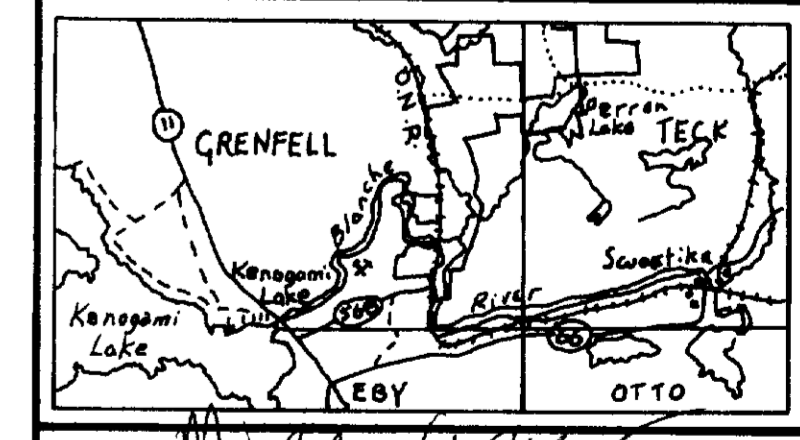
- ⌘ Swamp, marshy wet area
- ⌘ Alder, willow
- ⌘ Poplar, birch
- ⌘ Spruce, Jack pine
- Open area
- Pond, lake
- Creek
- ..... Bush access road
- Claim post
- - - Claim line
- Outcrop
- - - Inferred geological boundary
- Joints
- △ Rillow lava
- Strike of vertical schistosity

**LEGEND**

- Quaternary**  
Pleistocene
- Represented by the lighter colours on the map
- Pre-cambrian**  
Archean
- Basic Volcanic rocks
- la**  
Basalt, andesite, \*
- lb**  
Gabbro, diabase, \*
- \* May be an illustration of the cooling history of the parent rock

**KEY MAP**

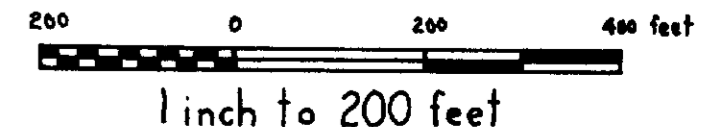
Scale: 1 inch to 2 miles



**PERRON GRENFELL GRID**

GEOLOGICAL SURVEY

GRENFELL TOWNSHIP  
LARDER LAKE MINING DIVISION  
DISTRICT OF TIMISKAMING, ONTARIO



1 inch to 200 feet

**PERRON & ASSOCIATES**  
KIRKLAND LAKE CANADA

DRAWN BY: M.M.G. DRAWING NO.: P.G.-84-3 DATE: July 1984

