42A01NE0504 2.6988 TECK

010

GEOLOGICAL SURVEY REPORT
ON THE
PERRONS' 83 LIMITED PROPERTY

WEDGE CLAIMS

TECK TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO

FOR
ALEXANDER H. PERRON

RECEIVED
JUL 26 1984
MINING LANDS SECTION

JULY 15, 1984

MARY GREER
GEOLOGICAL TECHNICIAN

42A01NE0504 2.6988 TECK

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TABLE OF CONTENTS

INTRODUCTION. 1

PROPERTY DESCRIPTION. 2

LOCATION AND ACCESS 2

PREVIOUS WORK 2, 3

SURVEY PROCEDURE. 3

TOPOGRAPHY. 3

GENERAL GEOLOGY 3, 4

ECONOMIC GEOLOGY. 4, 5

PRESENTATION OF FIELD OBSERVATIONS. 6, 7, 8

CONCLUSIONS AND RECOMMENDATIONS 8, 9

BIBLIOGRAPHY. 10

CERTIFICATE 11

ILLUSTRATIONS

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

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

Geology Map - (Figure 2) . . . . . 4a)

Accompanying Plan Map. . . . . In Back Pocket

Scale: 1 inch to 200 feet

Date: July 1984

Wedge Claims

Geological Survey

Map No. 84-W-3

GEOLOGICAL SURVEY REPORT

ON THE

PERRONS' 83 LIMITED PROPERTY

WEDGE CLAIMS

TECK TOWNSHIP

LARDER LAKE MINING DIVISION

DISTRICT OF TIMISKAMING, ONTARIO

INTRODUCTION

The Wedge Claims were recorded on July 12, 1982 for claims L-642539 - 540, and on November 22, 1982 for L-666099.

A geophysical grid was established on April, 1984, on the Teck claims.

During the period of April 11-12, 1984, two geophysical surveys (electromagnetic, magnetic) were conducted over the entire group. During June of 1984 a geological survey was performed over the Perron Property by Mary Greer with Alexander Perron assisting.

All drafting and interpretation was completed by Mary Greer.

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

The field work detected is shown on the accompanying map, at a scale of one inch to 200 feet, that forms an integral part of this report.

PROPERTY DESCRIPTION

The Wedge Claims consist of a contiguous block of three (3) unpatented mining claims located in Teck township, Larder Lake Mining Division, District of Timiskaming, Ontario, and are further described as follows:

Claim No.	No. of Claims
L-642539 - L-642540	2
L-666099	1
Total number of claims	3

Ownership of the aforementioned unpatented mining claims has been attested to by Alexander H. Perron of 103 Government Road East, Kirkland Lake, Ontario. (See figure 1a).

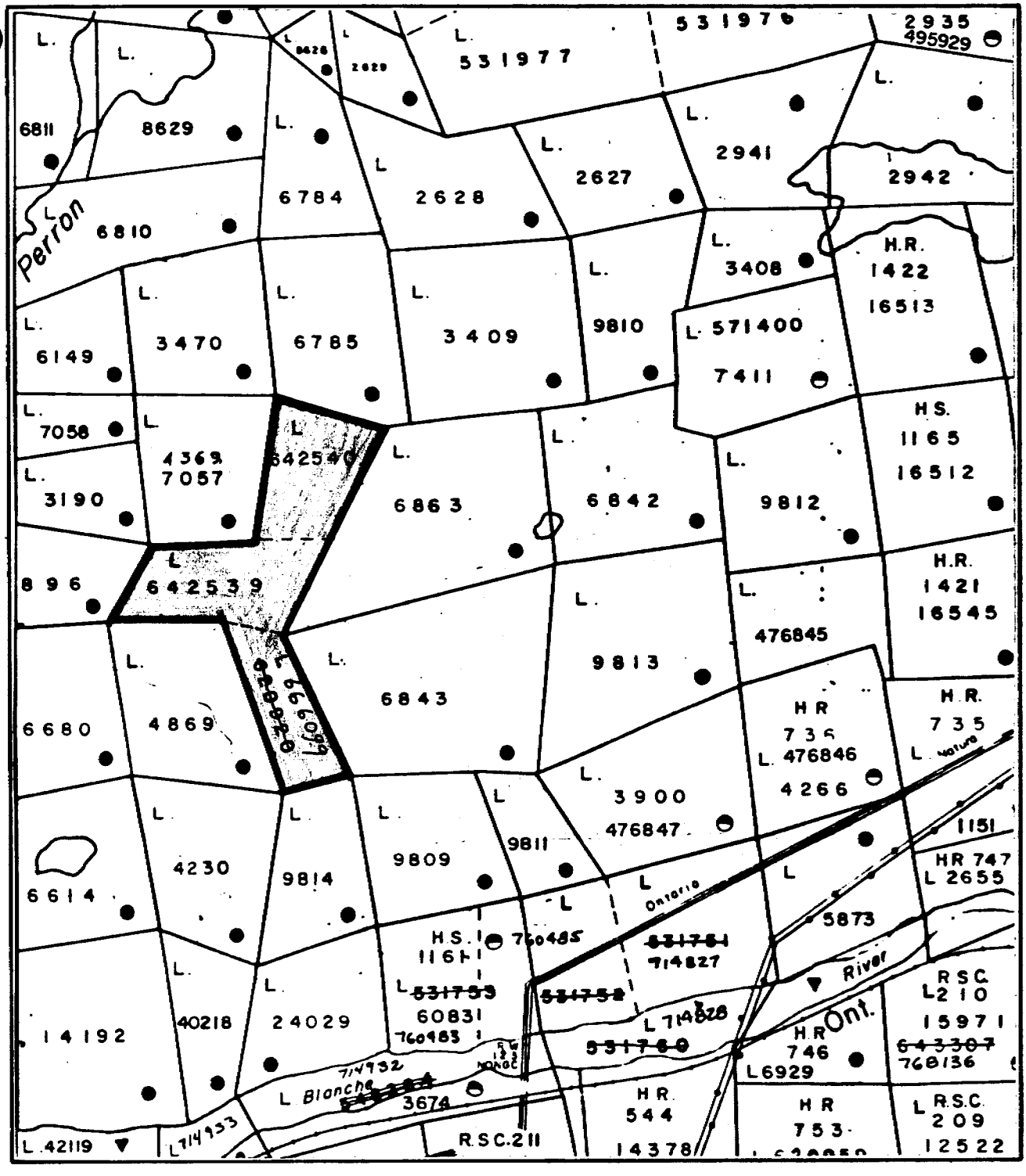
LOCATION AND ACCESS

The Wedge Claims are found in the very southwest quarter of Teck township, lying 4,000 feet north of the Blanche River and 4,000 feet south of Perron Lake. The claims are approximately five (5) miles from the town of Kirkland Lake.

The claims are accessible only by walking trails extending northward from the Blanche River or the natural gas line bearing east-west from the town of Swastika. (See figure 1b).

PREVIOUS WORK

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

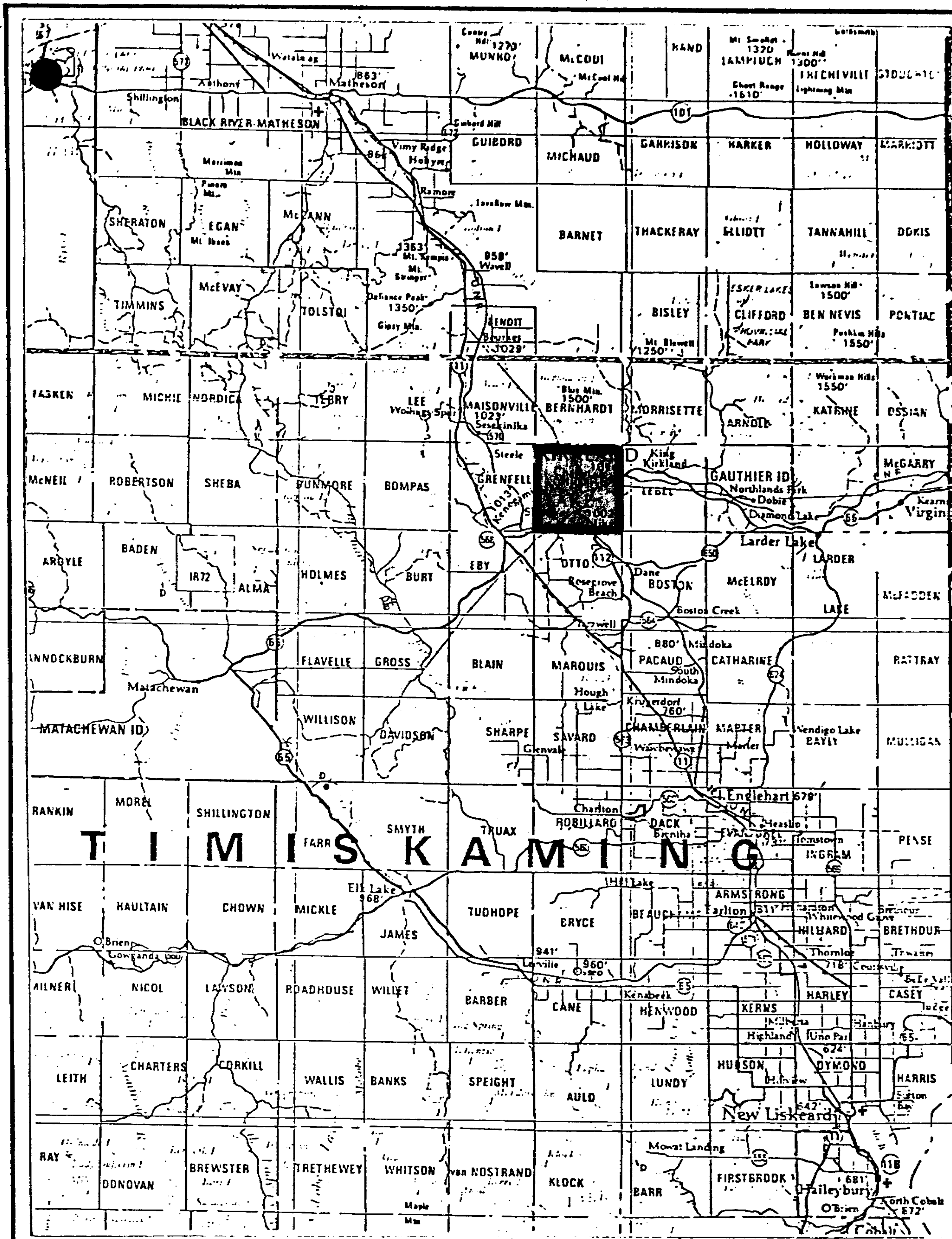


Claim Location Map

Scale: 1 inch to 1/4 mile

(Taken from a May 1984 claim map)

Figure 1a



Location Map

Miles 10 0 10 20

Figure 1b

drill hole on claim L-642539 and a magnetometer survey was performed on claim L-666099 by Queenston Gold Mines Limited. (See Regional Assessment Files).

SURVEY PROCEDURE

An east-west baseline was established north of the No. 2 post of claim L-642539.

A grid system of picket lines 200 feet apart with stations every 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 the lines, to tie them into the main grid.

TOPOGRAPHY

The general terrain of this property varies from rugged high outcrop hills to low flat swamps. The boundaries of the property follow higher rough ground. Claim L-666099 consists of large areas of outcrop and high hills, claims L-642539 and L-642540 have a large swamp occurring in the centre of the claims. (See figure 2).

GENERAL GEOLOGY

O.D.M. Geological Map 1945-1, covering Teck township, at a scale of one inch to 1,000 feet, indicates that the bedrock is predominantly sediments, which are conglomerates, tuffs and agglomerates of the Timiskaming series. The tuffs and agglomerates occur on Claim L-666099,

they are laced with syenites and syenite porphyry.

The northern claims are underlain by the conglomerates. A Post-Algoman diabase dyke occurs north-south through the centre claim. An east-west fault lies along the south boundary of claim L-642539. This fault is recognized to be part of the Kirkland Lake-Larder Lake break which is part of an east plunging synclinorium. (See Figure 2).

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.

As previously mentioned, the Kirkland Lake «Main Break» is an east plunging synclinorium located between the Lake Abitibi Batholith and the Round Lake Batholith. The Kirkland Lake-Larder Lake Fault zone marks the south location of the synclinorium and the Destor-Porcupine Fault zone marks the north. The major gold producing mines are found in these zones.

Presently, the only producing mine is the Wilroy Mines Limited, Macassa Division. The Macassa Mine is only two miles northeast along



Geology Map

Scale: 1 inch to 1000 feet

POST-ALGOMAN

Diabase

ALGOMAN

A9 Syenite, quartz feldspar porphyry

A5 Basic syenite

TIMISKAMING

T4 Tuff and agglomerate

T3 Tuffaceous conglomerate

T2 Conglomerate

Figure 2.

strike from the Perron Property.

The Kirkland Lake «Break» is mapped out to cross the northern boundary of L-666099.

PRESENTATION OF FIELD OBSERVATIONS

The field data is presented on a map at a horizontal scale of one inch to 200 feet, Map No. 84-W-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 by rock types. The topography will also be described in greater detail.

i) Topography:

The baseline traverses through a wet swampy lowland with outcrop and higher dry land rising up to the north, west, south and southeast. The east lines, particularly L 2+00 E and L 4+00 E cross a flooded area of an extended beaver pond. Due to this pond, the rest of the swamp is barely accessible.

Alder, larch and black spruce are the predominant vegetation found in the low areas.

To the south lines L 2+00 E, L 0+00 E, L 2+00 W and L 4+00 W rise up out of the swamp to high rugged ground of large massive outcrops predominantly covered by poplar, spruce and some jackpine. There is also a swamp found between L 9+00 S and L 13+00 S, L 0+00 and L 2+00 W. The general rise from the swamp to higher ground occurs approximately at L 2+00 N on L 4+00 W to L 10+00 W and at L 13+00 N on L 0+00 and L 2+00 W and L 11+00 N on L 2+00 E and L 4+00 E. These higher areas are also covered mainly by spruce, poplar, jackpine and some scrub bush.

ii) Geology:

Three main age groups were noted on the Perron Property. They are the Timiskaming Series, Algoman Series and Post Algoman Series. The Timiskaming Series composes 90% of the visible outcrop. Due to the large amount and variety of outcrops, refer to plan map for outcrop locations.

a) Timiskaming Series

In the Timiskaming Series two (2) main rock types were noted; interbedded conglomerate and greywacke and Tuff and agglomerates. The conglomerates consist primarily of rounded to ovoid boulders. Some outcrops consisted of pebbles which show good sorting. The pebbles consist of jasper, chert, quartz, syenite, rhyolite and pink trachyte. The conglomerate matrix appears to be a sandy greywacke. The greywacke weathers dark grey and is a medium to fine grained rock. The greywacke is interbedded with pebble conglomerate. 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, there is some distinct bedding lines. There appears to be foreigh rock material in some of the outcrop.

b) Algoman Series

The Algoman Series consist of syenite porphyry and basic syenite.

The basic syenite is a dark rock having a larger content of ferromagnesian minerals. It has a rough, uneven surface, and may contain mineral grains of feldspar, biotite and hornblende.

The syenite porphyry weathers a dark pink, lighter than the basic syenite. There is generally visible crystals of feldspar. The syenite porphyry examined shows good porphyritic texture, is red to grey in colour, and the phenocrysts may be orthoclase, and the ferrogagnesian minerals are probably hornblende, chlorite and a large amount of biotite. There is also some magnetite some samples taken were slightly magnetic. The matrix is light pink in colour.

c) Post Algoman

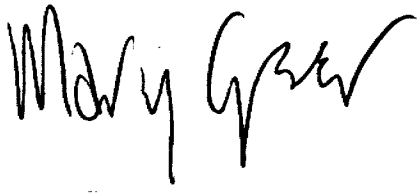
The Post Algoman series consist of a diabase dyke trending north south across the property. The diabase examined was finely phaneric, and showed an ophitic texture. The minerals may be olivine, plagioclase, pyroxene and metallic oxides.

CONCLUSIONS AND RECOMMENDATIONS

The geological survey was conducted to determine the location of the Kirkland Lake Fault system which the major gold zones are located on. There was no evidence of this system on the exposed outcrops and it is concluded that the fault occurs down in the low swampy area.

It is therefore recommended that some diamond drilling be carried out in the winter to further determine where the zone is and if there is any gold mineralization present.

Respectfully submitted,



July 15, 1984

Mary Greer
Geological Technician

BIBLIOGRAPHY

Ontario Department of Mines

Maps

Vol. LVII 1948, Part V

Map 1945-1

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 15/84
Date

Mary Greer
Mary Greer
Geophysical Technician

Ministry of Natural Resources
Ontario

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

File

W8408.244

M 42A01NE0504 2.6988 TECK

900

Type of Survey(s): GEOLOGICAL 2.6988

Township or Area: TECK

Sept 7/84

Claim Holder(s): ALEXANDER H. PERRON

Prospector's Licence No.: K 19026

Address: 103 GOVERNMENT Rd. E.

Survey Company: Kirkland Lake Ontario

Date of Survey (from & to): 24 06 84 (Day Mo. Yr.) 26 06 84 (Day Mo. Yr.)

Total Miles of line Cut: 3 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

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

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

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	642539	
	642540	
	666099	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

LARDER LAKE MINING DIV. RECEIVED JUL - 6 1984 AM 7 8 9 10 11 12 1 2 3 4 5 PM

RECEIVED
JUL 17 1984
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
40	JUL 6 1984	
	Date Approved as Recorded: 84.8.17	Branch Director

Date: July 6/84 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 Ave Kirkland Lake Ontario

Date Certified: July 6/84 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 TECK TOWNSHIP

Claim Holder(s) ALEXANDER H. PERRON
103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONT.

Survey Company PERRONS' 83 LIMITED

Author of Report MARY GREER

Address of Author 49 MCKELVIE AVE., KIRKLAND LAKE, ONT.

Covering Dates of Survey 01/04/84 - 10/07/84
(linecutting to office)

Total Miles of Line Cut APPROXIMATELY THREE (3) MILES

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 40
Geochemical _____

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

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

DATE: July 15/84 SIGNATURE: Mary Greer
Author of Report or Agent

Res. Geol. _____ Qualifications 2.4529

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	642539
L	642540
L	666099

If space insufficient, attach list

TOTAL CLAIMS 3

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 153 Number of Readings _____

Station interval 100 FEET Line spacing 200 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 _____

49 McKelvie Avenue,
Kirkland Lake, Ontario
P2N 2K6

REGISTERED MAIL

July 15, 1984

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

Dear Sir:

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

Enclosed herewith please find a duplicate copy of the following:

- Report dated July 15, 1984, by Mary Greer entitled:

  Geological Survey Report
  On the Perrons' 83 Limited Property
  Wedge Claims
  Teck 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

1984088 03

Your File: 244
Our File: 2.6988

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 642539 et al in the Township of Teck.

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 Road EAst
Kirkland Lake, Ontario

cc:Mary Greer
49 McKelvie Avenue
Kirkland Lake, Ontario

Mining Lands Section

File No 2.6988

Control Sheet

TYPE OF SURVEY

____ GEOPHYSICAL

__✓__ GEOLOGICAL

____ GEOCHEMICAL

____ EXPENDITURE

MINING LANDS COMMENTS:

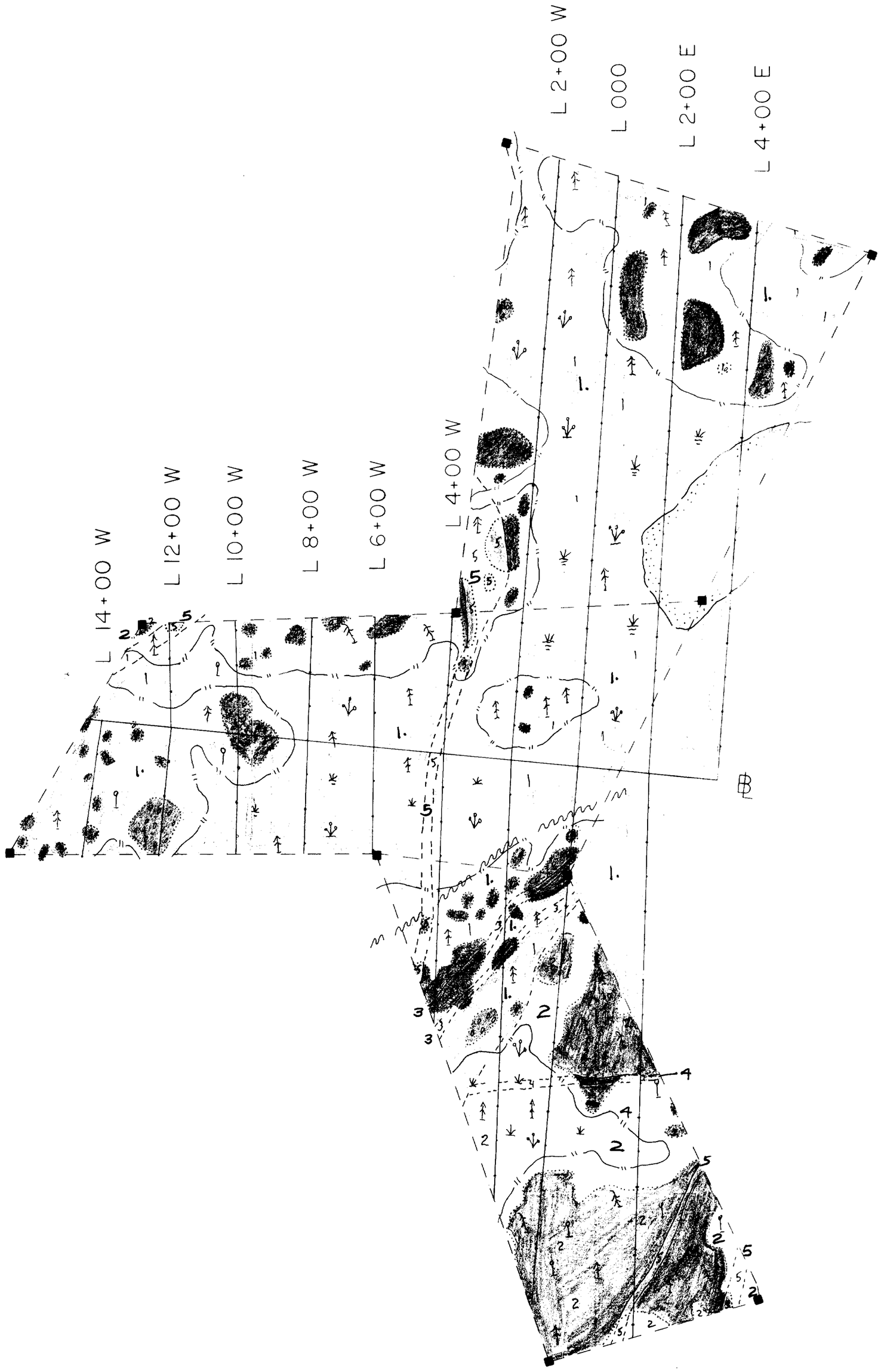
lgd. LD

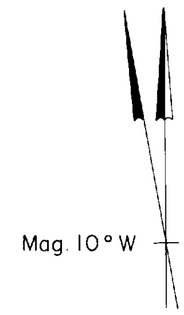
D. Hunt

Signature of Assessor

aug 16/84

Date





SYMBOLS

- Outcrop
- Geological boundary defined
- Geological boundary assumed
- Fault assumed
- Direction of beds
- Low area
- Swamp, wet area
- Poplar, birch
- Spruce, Jack pine
- Pond
- Claim post
- Claim line
- Alder, willow

LEGEND

Post-Algoman

5 Diabase

Algoman

4 Syenite porphyry

3 Basic syenite

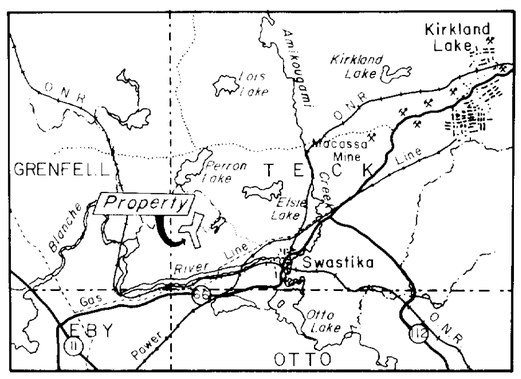
Timiskaming

2 Tuff and agglomerate

1 Conglomerate, some greywacke

KEY MAP

(Scale 1 inch to 2 miles.)



WEDGE CLAIMS

GEOLOGICAL SURVEY

TECK TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO

200 0 200 400 600

Scale: 1 inch to 200 feet

PERRONS' 83 LTD.
KIRKLAND LAKE CANADA

Drawn by: Mary Greer | Map No. 84-W-3 | Date: July 1984

42A01NE0584 2.6988 TECK

1/200

2.6988