42A01SE0191 2.8263 EBY

010

GEOLOGICAL SURVEY REPORT

ON THE

PERRON PROPERTY

EBY FOUR GROUP

EBY TOWNSHIP

LARDER LAKE MINING DIVISION

DISTRICT OF TIMISKAMING, ONTARIO

FOR

ALEXANDER H. PERRON

RECEIVED

JUL 08 1985

MINING LANDS SECTION

JULY 1, 1985

MARY GREER

GEOLOGICAL TECHNICIAN

42A01SE0191 2.8263 EBY

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ILLUSTRATIONS

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

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

Accompanying Plan Map. . . . . In Back Pocket

Scale: 1 inch to 200 feet

Date: June 1985

Eby Four

Geological Survey

Map No. 85-E4-1

GEOLOGICAL SURVEY REPORT
ON THE
PERRON PROPERTY
EBY FOUR GROUP
EBY TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO

INTRODUCTION

The Eby Four Claims were recorded by Wm. Scott on July 27, 1984.

During the period of June 10 to June 26, 1985, a geological survey was completed describing topography and any visible outcrops.

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

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

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

PROPERTY DESCRIPTION

The Eby Four Group consists of four (4) contiguous unpatented mining claims located in Eby township, NW1/2 Lot 8, NE1/2 Lot 9, Concession III, Larder Lake Mining Division, District of Timiskaming, Ontario, and are further described as follows:

Claim No.	Township	No. of Claims
L-802618 to L-802621 (inclusive)	Eby	4

Ownership of the aforementioned claims have been attested to by Alexander H. Perron of 103 Government Road EAst, Kirkland Lake, Ontario, and was not independently ascertained by the writer. (See Figure 1a).

LOCATION AND ACCESS

The Eby Four Group is located in the central part of Eby township, 2 miles west of Highway No. 66. The property is found in Concession III, northwestern part of Lot 8 and northeastern part of Lot 9.

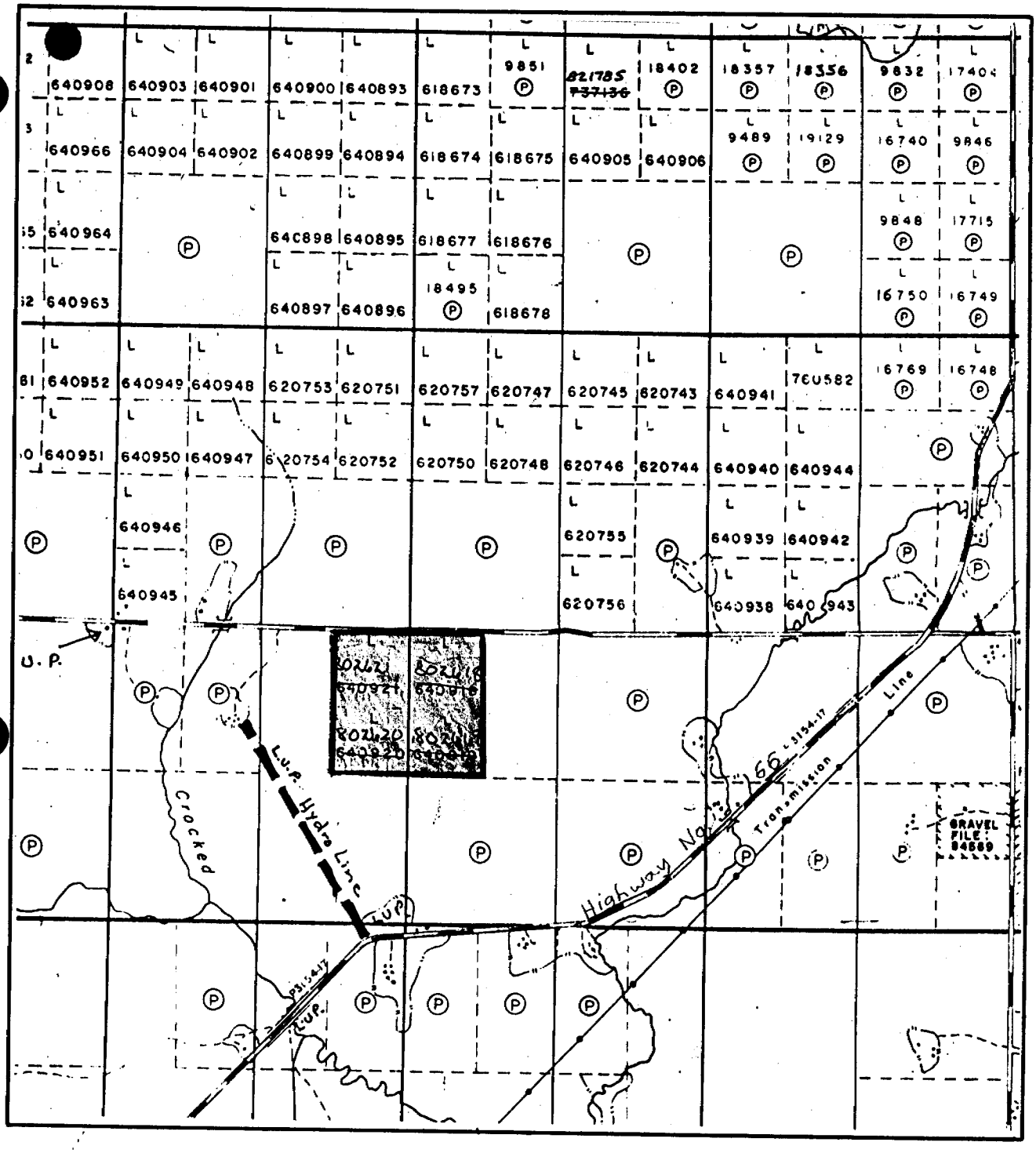
The property is twelve (12) miles west from the town of Kirkland Lake, Ontario, on Highway No. 66, then two (2) miles west on the Eby Concession III line. (See Figure 1a and 1b).

PREVIOUS WORK

In 1949 and 1950, Preston Mines conducted geological mapping and drilled three (3) diamond drill holes. The holes tested a shear zone containing minor quartz and concentrated pyrite with gold across a two foot width over a twenty-five (25) foot length. The drilling intersected 0.01 to 0.10 oz/ton Au across 0.5 to 1.0 feet.

SURVEY PROCEDURE

The geological survey was carried out by using compass and pace traverse lines. Any topographical features or outcrop was then noted along the traverse lines.

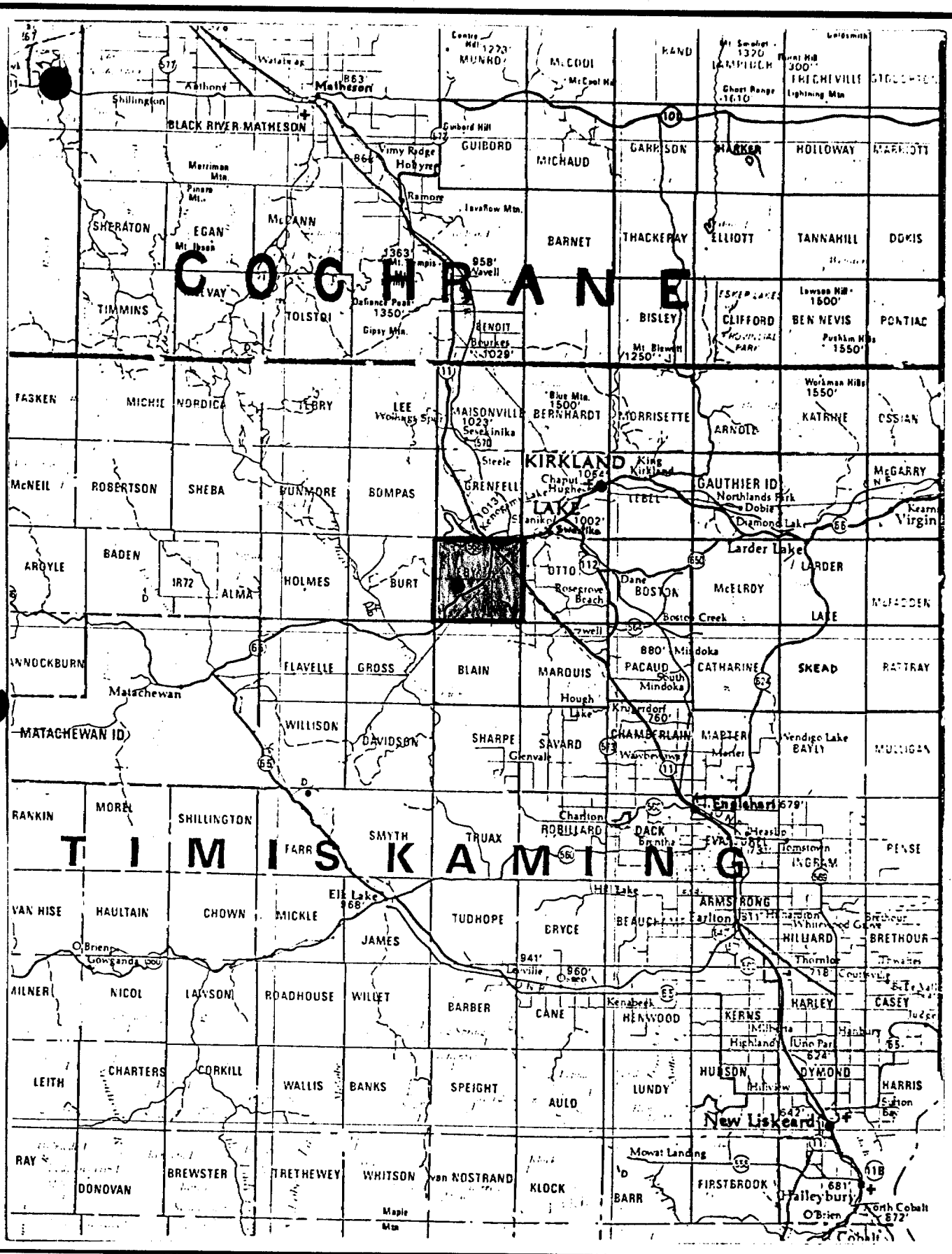


Claim Location Map

Scale: 1 inch to 1/2 mile

(Taken from a Mar. 1985 claim map)

Figure 1a



Location Map

Figure 1b

TOPOGRAPHY

The claim group is covered by poplar and birch bush with areas of spruce, balsam fir and alder. The areas of outcrop found in the centre of the group is high and rugged. An old bush road gives access to the claims in a south-west direction.

GENERAL GEOLOGY

The O.D.M. Geological Report No. 99, Geology of the Eby and Otto Area, District of Timiskaming, indicates that the underlying bedrock is predominantly mafic metavolcanics cut by diabase dykes. The metasediments of the Kirkland-Larder Lake break occurr to the north of the property, below Kenogami Lake.

ECONOMIC GEOLOGY

Gold is known to occurr in carbonate rocks and these rocks are not confined to the area of the Kirkland-Larder Lake break area. These carbonate zones can be found by detailed geological mapping and magnetic surveys for formations under the overburden. The zones will form low areas between the magnetic highs that show up other formations such as iron formations.

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-E4-1, found in the back pocket of this report.

For the purpose of this presentation, the topography will be described in greater detail.

i) Topography:

A low area crosses the centre part of the claims from the west

to the southeast. The primary vegetation in this area is spruce, balsam fir and some alder. The western two claims are flat, mostly covered by poplar and birch. The high areas around the outcrops is caused by the ability of the diabase to resist erosion. A small clearing is found to the north of claim L-802618. No creeks or major swamps are found on the property.

ii) Geology:

The exposed outcrops found on the Eby Four group consists of magnesium tholeiite and diabase dykes, some small syenite porphyry dykes and quartz veins were also found. The rock types are further described as follows:

a) Magnesium rich tholeiites, including pillow lava and some flow top breccia.

These rock types were found to be a fine grained greenish grey massive type of tholeiitic basalt. They were difficult to break, having a loud ring, and weathered a chalk grey.

Coarse grained textures were found, the minerals in the rock were the same as the fine grained, they are probably the interior part of the lava flows.

Some interbedded strata was noted which had angular fragments in the matrix. These fragments grade down into coarser dark rock. The graduation of fragments indicate the tops face north. Pillows were noted in rare spots over the group,

they indicate an east-west strike with tops facing north.

b) Diabase:

The diabase found has a very distinct ophitic texture and weathers light brown. The dykes vary from fine grained on the edges to coarser grained on the inside. The dyke is irregular in outline, having many offshoots and bulges.

c) Syenite porphyry and quartz veins. The syenitic porphyry had feldspar phenocrysts (1/8 - 1/4") in the matrix of hornblende and other dark feldspars. These dykes have the same strike of the lava flows so do not appear to have been intruded.

The quartz veins were found to be without mineralization and were striking S 60° E and dipping to the southwest. The veins have been intruded into the flows but cut off by the diabase dykes.

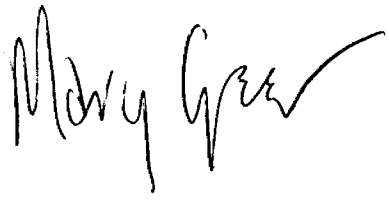
Some shear zones were found in the tholeiites because of this pyrite and quartz were found. The shearing appears to be in an east-west direction.

CONCLUSIONS AND RECOMMENDATIONS

The syenite porphyry may be a favourable location for further geological work, such as stripping and trenching.

It is recommended that a geophysical survey be carried out over the claims. This would include an electromagnetic survey and a magnetic survey.

Respectfully submitted,



July 1, 1985

Mary Greer
Geological Technician

BIBLIOGRAPHY

Ontario Department of Mines and Northern Affairs

Geological Report 99

Geology of the Eby and Otto Area
District of Timiskaming

by H. L. Lovell - 1972.

CERTIFICATE

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.

July 2/85
Date

Mary Greer
Mary Greer
Geophysical Technician

Ontario

Geochemical and Expenditures) 85080237

Mining Ac

42A01SE0191 2.8263 EBY

900

Type of Survey(s)

GEOLOGICAL SURVEY

Claim Holder

ALEXANDER H. PERRON

Address

103 Government Rd. E. Kirkland Lake.

Survey Company

Perrons'

Date of Survey (from & to)

Day	Mo.	Yr.	Day	Mo.	Yr.
10	06	85	26	06	85

Total Miles of line Cut

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

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

LARDER LAKE MINING DIV.
RECEIVED
JUN 26 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	802618	
	802619	
	802620	
	802621	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
JUL 04 1985
MINING LANDS SECTION

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

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
80	JUN 26 1985	
	Date Approved as Recorded	Branch Director
	85.7.17	

Date	Recorded Holder or Agent (Signature)
June 26/85	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	Certified by (Signature)
June 26/85	Mary Greer

1362 (81/9)

Mining Lands Section

File No 2.8263

Control Sheet

TYPE OF SURVEY

____ GEOPHYSICAL

__✓__ GEOLOGICAL

____ GEOCHEMICAL

____ EXPENDITURE

MINING LANDS COMMENTS:

<E by Twp>

Lgd.

L.D.

Signature of Assessor

July 12/85

Date

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

Township or Area EBY

Claim Holder(s) ALEX H. PERRON, 103 GOV'T RD. E.,
KIRKLAND LAKE, ONT. P2N 1A9

Survey Company PERRONS

Author of Report MARY GREER

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

Covering Dates of Survey JUNE 10/85 - JUNE 26/85 P2N 2K6
(linecutting to office)

Total Miles of Line Cut ---

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	802618
L	802619
L	802620
L	802621

TOTAL CLAIMS 4

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: July 2, 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 _____

_____

_____

_____

_____

_____

_____

_____

_____

REGISTERED MAIL

PERRONS

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

July 1, 1985

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
JUL 08 1985
MINING LANDS SECTION

Dear Sir:

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

Enclosed herewith please find a duplicate copy of the following:

- Report dated July 1, 1985, by Mary Greer entitled:

  Geological Survey Report on the
  Perron Property
  Eby Four Group
  Eby 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,
Geological Technician
MG/p

Encls.

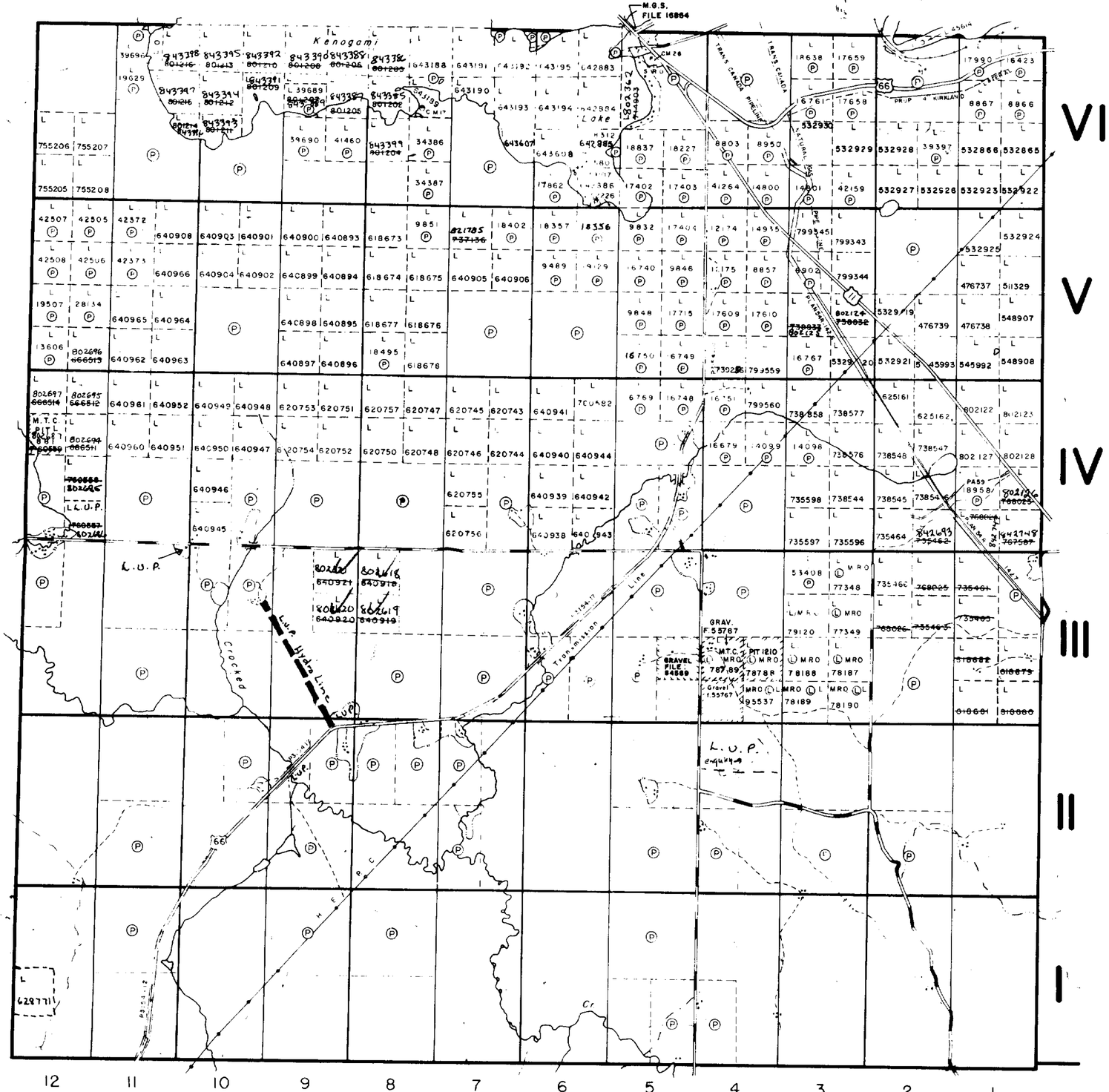
W.345

EBY

Grenfell Twp. M.351

Burt Twp. M.334

Otto Twp. M.379



Blain Twp. M.418

K. Kalamov

THE TOWNSHIP OF EBY

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

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

AREAS WITHDRAWN FROM STAKING
under Sec. 43 of The Mining Act (R.S.O. 1970).

Order No.	File	Date	Disposition

NATURAL RESOURCES
JUL 26 1985
TITLES SECTION

July 4/85 -

#1

PLAN NO. M-345

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

42A01SE0191 2.8263 EBY

W.342

L 802621

L 802618

L 802620

L 802619

open area

Small syenite porphyry dikes

qtz vein

qtz vein shear zone

flow breccia

qtz vein

qtz vein

qtz vein

CON. III

Lot 9

Lot 8

N

SYMBOLS

- Outcrop
- pillows
- Geological boundary (known)
- Geological boundary (inferred)
- Spruce, balsam fir
- Poplar, birch
- Alder
- Low wet area
- Claim line
- Claim post
- Road
- Bush road
- Traverse lines

LEGEND

PLEISTOCENE

Silt, sand and gravel, clay

ARCHEAN

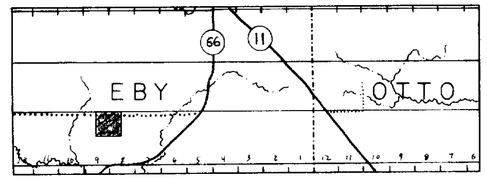
2 Matachewan diabase

KEEWATIN

1 Tholeiitic basalt, including pillow lava

KEY MAP

(Scale: 1 inch 2 miles)



EBY FOUR

GEOLOGICAL SURVEY

EBY TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO

200 0 200 400 600

Scale: 1 inch to 200 feet

PERRONS'
KIRKLAND LAKE CANADA

Drawn by: Mary Greer | Map No.: 85-E4-1 | Date: June 1985

42A01SE0191 2.8263 EBY

1
210