42A01SE8918 2.10395 EBY

010

GEOLOGICAL & GEOPHYSICAL SURVEY REPORT
ON THE
PERRON PROPERTY

EBY EIGHT GROUP

EBY TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO

FOR

ALEXANDER H. PERRON

RECEIVED
MINING LANDS SECTION

SEPTEMBER 15, 1987

MARY GREER
GEOLOGICAL TECHNICIAN

42A01SE8918 2.10395 EBY

010C

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Accompanying Plan Maps. . . . . In Back Pocket

Scale: 1 inch to 200 feet

Date: August 1987

EBY EIGHT

Ground Magnetometer Survey

Map No: 87-8-A

Ground VLF-EM Survey

Map No: 87-8-B

Geological Survey

Map No: 87-8-C

GEOLOGICAL AND GEOPHYSICAL SURVEY REPORT

ON THE

PERRON PROPERTY

EBY EIGHT GROUP

EBY TOWNSHIP

LARDER LAKE MINING DIVISION

DISTRICT OF TIMISKAMING, ONTARIO

INTRODUCTION

The Eby Eight claims were recorded by Mary Greer and Katherine Calberry.

A geophysical grid was established by Perrons during the fall of 1986. Three subsequent surveys were carried out by Perrons about July, 1987. These surveys were two geophysical surveys (electromagnetic, magnetic) and a geological survey. All surveys were completed over the entire eight (8) claims. The instruments used for the geophysical surveys were a Geonics EM16 unit and a McPhar GP-8 Proton Magnetometer.

These surveys were supervised by Mary Greer with Anita Helin and Dean Sharkey assisting.

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

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

PROPERTY DESCRIPTION

The Eby Eight Group consists of eight (8) contiguous unpatented mining claims located in Eby township NW 1/2 Lot 7, N 1/2 Lot 8, NE 1/2 Lot 9, Concession III, Larder Lake Mining Division, District of Timiskaming, Ontario, and are further described as follows:

Claim No.	No. of Claims
L-894497 to L-894500 (inclusive)	4
L-917278 to L-917279	2
L-917283 to L-817284	2
Total number of claims	8

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).

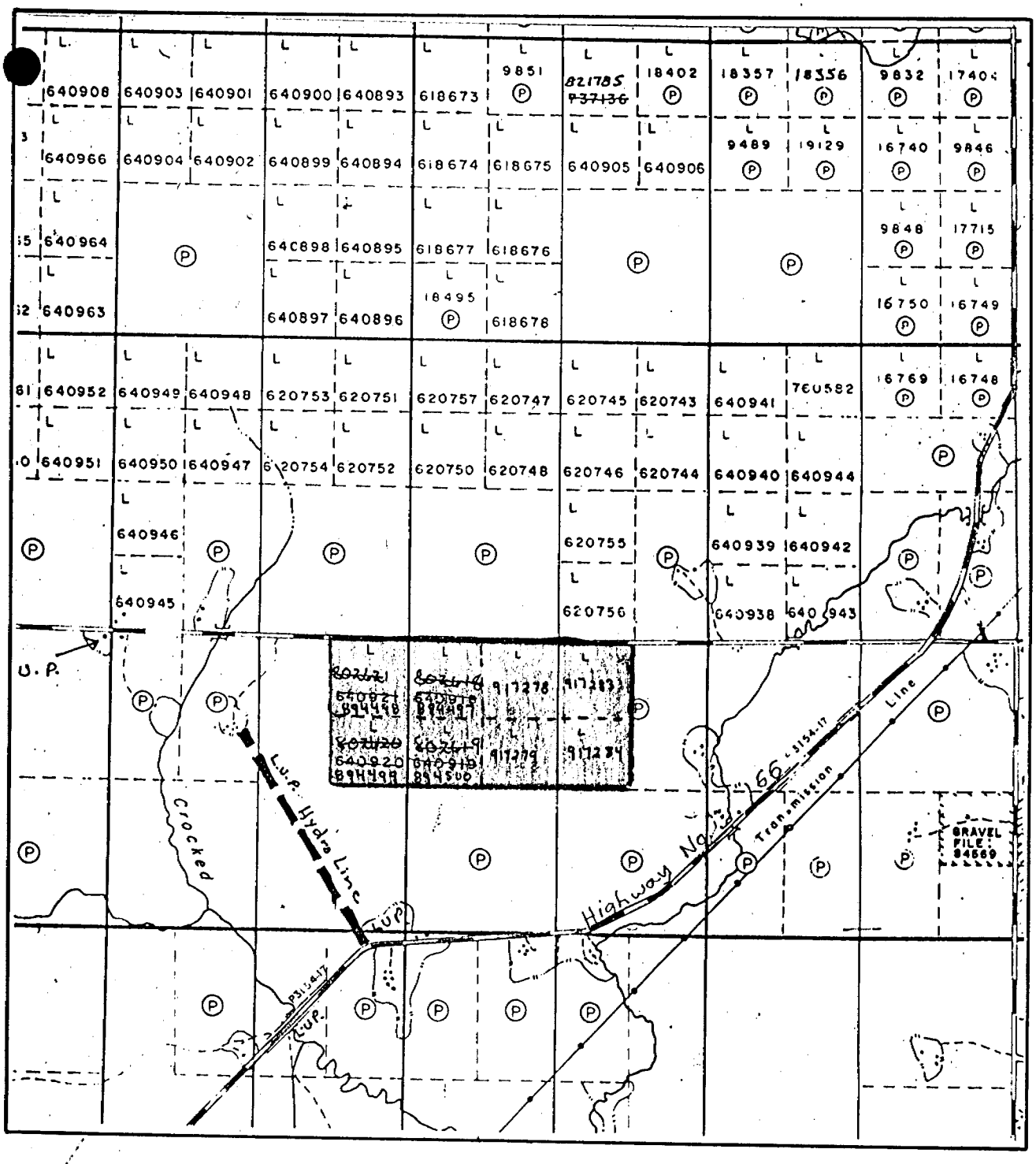
LOCATION AND ACCESS

The Eby property 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 7, north half of Lot 8 and the 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

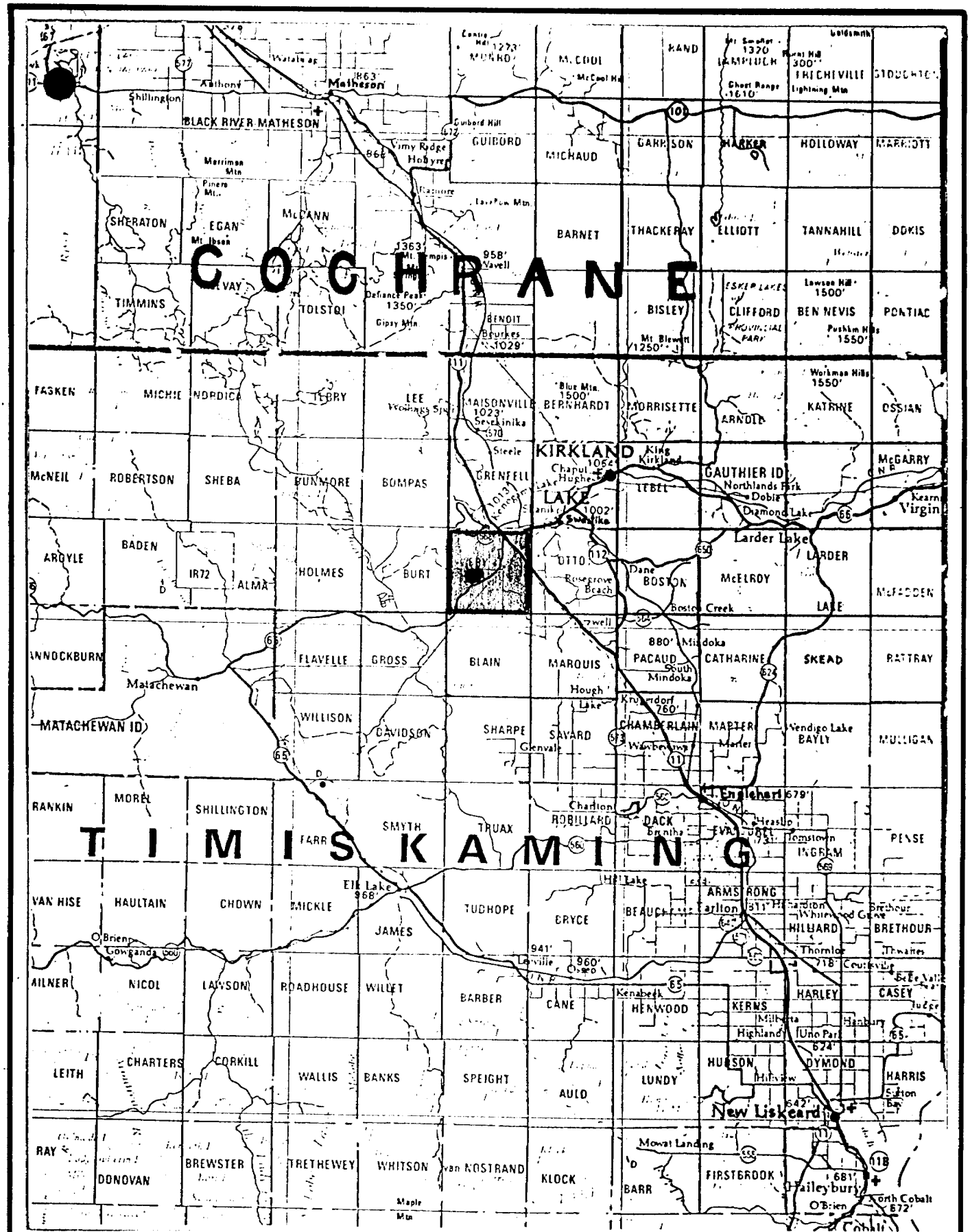
In 1949 and 1950, Preston Mines conducted geological mapping and



Claim Location Map

Scale: 1 inch to 1/2 mile

Figure 1a



Location Map

Miles 10 0 10 20

Figure 1b

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

An east west baseline was established east from the No. 4 post of L-894498 for 5,280 feet along the concession road. Picket lines were established at right angles to the baseline at 400 foot intervals, with stations every 100 feet along the lines. Readings were taken every 100 feet.

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 and the northeastern is high and rugged. An old bush road gives access to the claim in a southwest 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 occur to the north of the property, below Kenogami Lake.

ECONOMIC GEOLOGY

Gold is known to occur 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.

INSTRUMENTATION

i) Electromagnetic Survey:

The VLF-EM method uses as a source, one of the main submarine communications transmitters in the 15 to 25 kHz band found throughout the world. These submarine communication radio waves travel in a single mode parallel to the surface of the earth along the earth-air interface.

Without vertical conductors and travelling over flat ground, the magnetic field component of this radio or surface wave is horizontal and perpendicular to it's direction of travel.

VLF instruments are capable of picking up these structures that change the direction of the waves by measuring the tilt angle of the major axis of the polarization ellipse. This is illustrated by the tilt angle being zero on flat ground, but when a conductor is present the tilt angle will acquire a finite value. The direction of such parameters as depth, depth extent, dip and width of the conductor is very minimal.

The VLF easily illustrates the location of the upper limit of dipping structures which can be seen or plotted as VLF profiles as areas of greatest change in tilt angle per unit of distance.

The instrument used for this survey was a Geonics EM16 unit. The sensitivity of this unit is $\pm$ 1% for the inphase and $\pm$ 1% for the quadrature. The operating frequency for the EM16 is from 15-25 kHz and

the station selection is made by plug-in units.

For the purpose of this survey the station used was Cutler, Maine, which has a frequency of 24.0 kHz.

All readings were taken perpendicular to the station and the topography was noted for further use in the interpretation of the EM results.

ii) Magnetic Survey:

This system uses a backward motion of spinning protons of a hydrogen atom within a fluid of hydrogen and carbon. These spinning magnetic protons are caused to have two opposite poles by applying a magnetic field using a current within a coil of wire. When the current is stopped, the protons precess about the earth's magnetic field and in turn generate a small current in the wire. This frequency of precession is proportional to the earth's total magnetic field.

This instrument is read directly in gammas which is the absolute value of the earth's total field for that station.

The instrument used for this survey was a McPhar GP-8 Proton Magnetometer, this instrument has a one gamma sensitivity.

The diurnal variation was monitored by closing each loop at any secondary check station, at a gridline-baseline intersection.

Diurnal corrections were applied by linear distribution of any

observed variation over the time between base stations. The corrections were calculated by using a time vs drift graph.

PRESENTATION AND DISCUSSION OF RESULTS

i) Electromagnetic Survey:

The field data is presented on a plan map No. 87-8-B, found in the back pocket of this report.

The VLF-EM data is illustrated as profiled data along the survey lines and is plotted at a vertical scale of 1 inch to $\pm$ 40%, with the positive to the left and negative to the right. See the accompanying plan map for the conductor location.

All the conductors found show a strong inphase and a weak quadrature response. The conductor found on claim L-917283 has a very distinct inphase with a minor positive response. This conductor occurs in a low area between some outcrop and it may indicate the topographical boundary between the exposed outcrop and overburden. However the axis is not in line with the boundary and may be indicating a geological structure such as a fault or shear zone. The other conductors such as the one occuring on claim L-894499 and L-894498 may indicate conductive overburden with a conductor at depth. The double axis may be from a horizontal conductor usually conductive overburden.

The conductor found on claim L-894500 and L-917284 are not continuous enough to make substantial observations on.

ii) Magnetic Survey:

The field data is presented on a map at a horizontal scale of one

inch to 200 feet, Map No. 87-8-A, found in the back pocket of this report.

The magnetic data is illustrated as isomagnetic values recorded at each station.

The magnetic survey shows an extensive magnetic response with magnetic relief varying from 58,200 gammas, to 64,000 gammas. An east west magnetic trend is prominent with definite north south deviations occurring across the claims. The strongest one appears between L 12 + 00 E and L 16 + 00 E. There is also a trend between L 20 + 00 E and L 24 + 00 E at 20 + 00 S which strikes approximately 150° north.

There is a prominent east west band of very high magnetics which may indicate an iron rich tholeiite.

PRESENTATION OF GEOLOGICAL FIELD OBSERVATIONS

The field data is presented on a map at a horizontal scale of one inch to 200 feet, Map No. 87-8-C, found in the back pocket of this report.

For the purpose of this presentation, see the accompanying plan map for outcrop and topographic locations, the topography will also be described in greater detail.

i) Topography:

The property can be divided in two halves with four claims to the west and four to the east. The western claims are predominately dry with dead spruce and balsam fir from the spruce budworm, which causes rough bush with lots of deadfall and raspberry.

Claims L-894498 and L-894499 are flat and dry, to the east on claims L-894497 and L-894500 outcrop occurs. The high area around the outcrops is caused by the ability of the diabase to resist erosion. The eastern half, particularly the southern part is a mixture of spruce, balsam fir and alder. The alder swamp is extensive and crosses the southern part of claim L-917279 and L-917284. Claim L-917283 is drier with a rough rock terrain with poplar spruce bush.

ii) Geology:

The exposed outcrops found on the Eby Eight 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

It was noted during the geological survey that many of the flows were magnetic, being iron-rich. However the magnetic survey indicates they are considerably more magnetic than previously thought and that a greater proportion are actually iron bearing. The magnetic survey also indicated a break between L 12 + 00 E and L 16 + 00 E. This is probably the magnetic signature of the known diabase dike which was located between L 12 + 00 E and L 16 + 00 E up around 2 + 00 S. The dike was again noted near L 16 + 00 E at the centre of the property and the magnetics are not as definite as elsewhere.

Some of the northwest-southeast magnetic structures may indicate a cross structure such as a fault or shear zone and should be examined more closely.

The VLF-EM conductors show some associations with the magnetic trend. Conductor 87-1 follows the north side of a magnetic low. This may illustrate having some relation to geological structures rather than topographical features. The same can be said about 87-3 and 87-5. There is a possibility that these conductors are one and presumably are realigned due to a fault which is what the magnetic structure may be between L 12 + 00 E and L 16 + 00 E.

It is recommended that the magnetics VLF-EM survey and geology survey be closely examined and future diamond drill targets be considered.

Respectfully submitted,



September 15, 1987

Mary Greer
Geophysical 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

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 have been continuously engaged in my profession for the past six (6) years and I am qualified to write this report.

4) That I supervised and participated in this survey.

September 15/87
Date

Mary Greer
Mary Greer
Geophysical Technician

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mii

42A01SE8918 2.10395 EBY

900

Type of Survey(s): GEOLOGICAL SURVEY	Township or Area: EBY
Claim Holder(s): MARY GREER	Prospector's Licence No.: K-19410
Address: 103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONTARIO P2N IA9	
Survey Company: PERRONS '	Date of Survey (from & to): Day 28 Mo. 07 Yr. 87 — Day 30 Mo. 07 Yr. 87
Total Miles of line Cut: APPROX. 12 MILES	
Name and Address of Author (of Geo-Technical report): MARY GREER, 103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONT. P2N IA9	

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	40
	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.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	894497 ✓				
	894498 ✓				
	894499 ✓				
	894500 ✓				
	917283 ✓				
	917284 ✓				

RECEIVED
AUG 28 1987
MINING LANDS SECTION

LARDER LAKE MINING DIV.
JUL 3 1987
AM
8.95

RECORDED
JUL 31 1987
Receipt #

Total number of mining claims covered by this report of work: 6

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
240	July 31, 1987	Acting
	Date Approved as Recorded: 1987.10.08	Branch Director

Date: Friday July 31/87 — 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, 103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONT. P2N IA9

Date Certified: July 31/87 — Certified by (Signature): Mary Greer

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

2.10395

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.

Type of Survey(s): GEOLOGICAL SURVEY	Township or Area: EBY
Claim Holder(s): ALEX H. PERRON	Prospector's Licence No.: K-19026
Address: 103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONTARIO P2N IA9	
Survey Company: PERRONS'	Date of Survey (from & to): 28 07 87 30 07 87 (Day / Mo. / Yr. / Day / Mo.) — Total Miles of line Cut: APPROX.4 MILES
Name and Address of Author (of Geo-Technical report): MARY GREER, 103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONT. P2N IA9	

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	917278	
	917279	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
AUG 28 1987
MINING LANDS SECTION

LAND [illegible]
JUL 31 1987
AM
7 8 9 10 11 12 1 2 3 4 5 6
8:45

Total number of mining claims covered by this report of work: 2

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	July 31, 1987	Acting
	Date Approved as Recorded: 1987 10 08	Branch Director

AB

Date	Recorded Holder or Agent (Signature)
July 31/87	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, 103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONT. P2N IA9

Date Certified: July 31/87 — Certified by (Signature): Mary Greer

1362 (85/12)

Ministry of Natural Resources — Ontario

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

561/87

The Mining Act 2.10395

Instructions: – Please type or print. Nov. 3
– 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.

Type of Survey(s)	Township or Area
GEOPHYSICAL - ELECTROMAGNETIC MAGNETOMETER	EBY

Claim Holder(s)	Prospector's Licence No.
ALEX H. PERRON, 103 GOV'T RD. E, KIRKLAND LAKE, ONT	K-19026

Survey Company	Survey Dates (linecutting to office)	Total Miles of line Cut
PERRONS	28 (Day) 07 (Mo.) 87 (Yr.) — 30 (Day) 07 (Mo.) 87 (Yr.)	APPROX. 9 MILES

Name and Address of Author (of Geo-Technical report)
MARY GREER, 103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONTARIO P2N IA9

Special Provisions Credits Requested

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

Man Days

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

Airborne Credits

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

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.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L-	894497				
	894498				
	894499				
	894500				
	917278				
	917279				
	917283				
	917284				

RECEIVED
SEP 29 1987
MINING LANDS SECTION

LARDER LAKE MINING DIV.
RECEIVED
SEP 14 1987
AM 7 8 9 10 11 12 PM 1 2 3 4 5 6
10:25AM

Total number of mining claims covered by this report of work. 8

For Office Use Only		
Total Days Cr. Recorded	Date Recorded	Mining Recorder
320	Sept. 14/87	Mya. Werner
	Date Approved as Recorded 1987.10.08	Regional/Branch Director for M. Gillanders

AB

Report Completed

Date of Report	Recorded Holder or Agent (Signature)
SEPT. 14, 1987	

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, 103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONT. P2N IA9

Date Certified	Certified By (Signature)
SEPT. 14/87	

1362 (81/2)

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File _____

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 AND-ELECTROMAGNETIC GEOPHYSICAL -MAGNETIC

Township or Area EBY

Claim Holder(s) ALEX H. PERRON, 103 GOV'T RD. EAST, KIRKLAND LAKE, ONT. P2N IA9

Survey Company PERRONS

Author of Report MARY GREER

Address of Author 49 MCKELVIE AVE. KIRKLAND LAKE, ONT. P2N 2K6

Covering Dates of Survey JULY 1987 (linecutting to office)

Total Miles of Line Cut APPROX. 7 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	20
--Magnetometer	20
--Radiometric	
--Other	
Geological	40
Geochemical	

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

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

DATE: SEPT. 15/87 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-	894497
L-	894498
L-	894499
L-	894500
L-	917278
L-	917279
L-	917283
L-	917284

If space insufficient, attach list

TOTAL CLAIMS 8

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 416 Number of Readings MAGNETOMETER - 416 VLF-EM - 426

Station interval 100' FEET Line spacing 400' FEET

Profile scale 1 INCH = ± 40

Contour interval 100 GAMMAS

MAGNETIC

Instrument McPHAR GP-8 PROTON MAGNETOMETER

Accuracy – Scale constant ± 1 GAMMA

Diurnal correction method TIME VS DRIFT WITH COMPUTER PROGRAM CLOSED LOOPS

Base Station check-in interval (hours) 45 MINUTES

Base Station location and value BL 0 + 00 58697 GAMMAS

ELECTROMAGNETIC

Instrument GEONICS VLF-EM 16 UNIT

Coil configuration HORIZONTAL AND VERTICAL

Coil separation INFINITY

Accuracy ± 1%

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency 24.0 KHz CUTLER MAINE (specify V.L.F. station)

Parameters measured HORIZONTAL & VERTICAL

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 _____

Grenfell Twp. M.351

Burt Twp. M.334

Otto Twp. M.379

Iain Twp. M.418

VI

V

IV

III

II

12 11 10 9 8 7 6 5 4 3 2 1

2.10395

THE TOWNSHIP OF 2.10395

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

N½ Lot 7, Con. 3 - Cert. of Forfeiture - Sept 17/85

JUL 17 1987
LARDER LAKE MINING RECORDER'S OFFICE

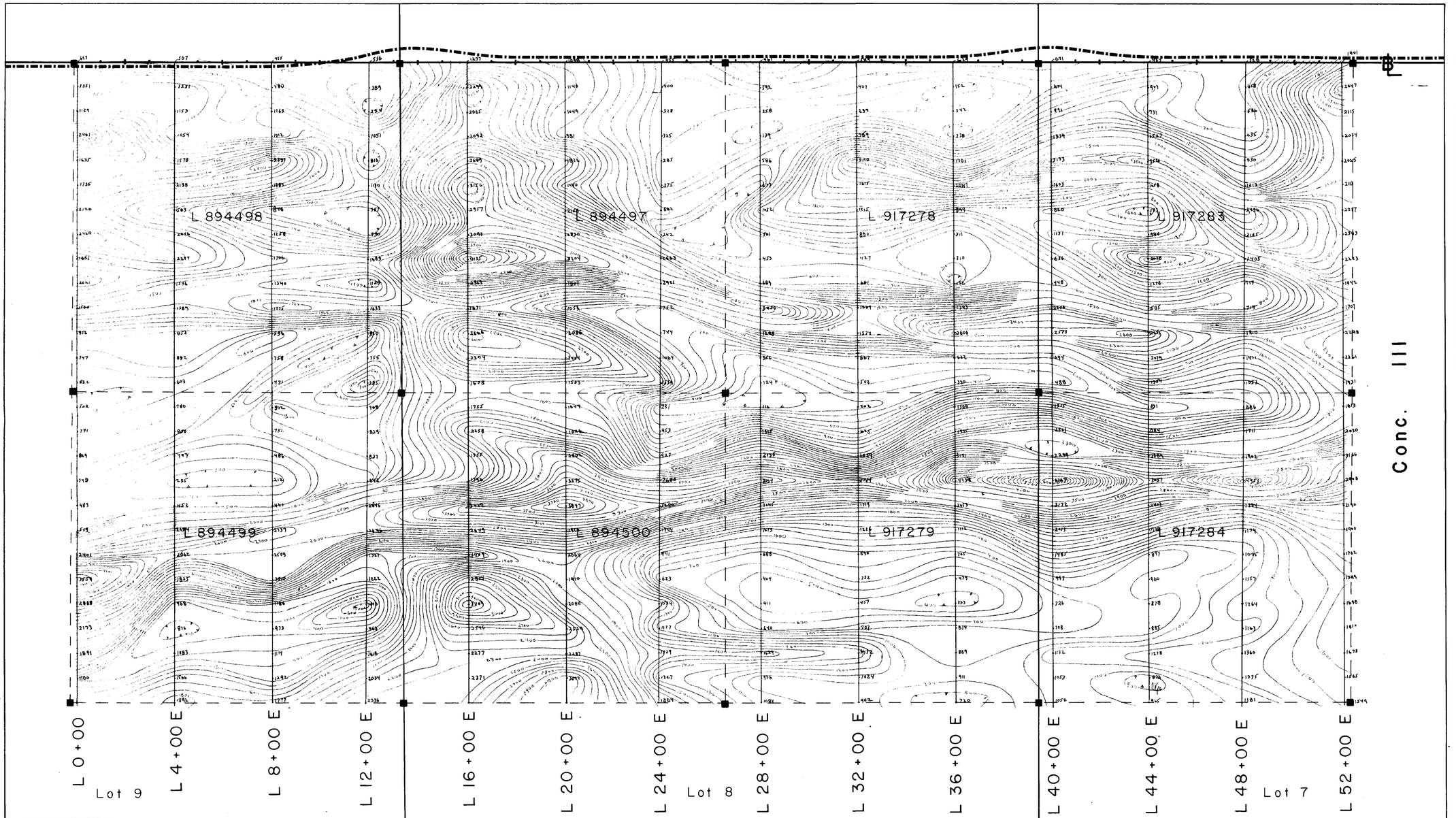
PLAN NO.- M-345

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

42A01SE8918 2.10395 EBY

200

Kalamov



SYMBOLS

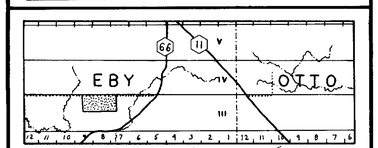
Isomagnetic contours
Base station
Claim post ■ Claim line — —
Secondary road

INSTRUMENTATION

Instrument used: McPhar GP-81 Proton Magnetometer

Datum subtracted: 58,000 ɣ
Contour interval: 100 gammas
Contoured by: Mary Greer

KEY MAP



Mary Greer

EBY EIGHT

GROUND MAGNETOMETER SURVEY

EBY TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO

200 0 200 400 600

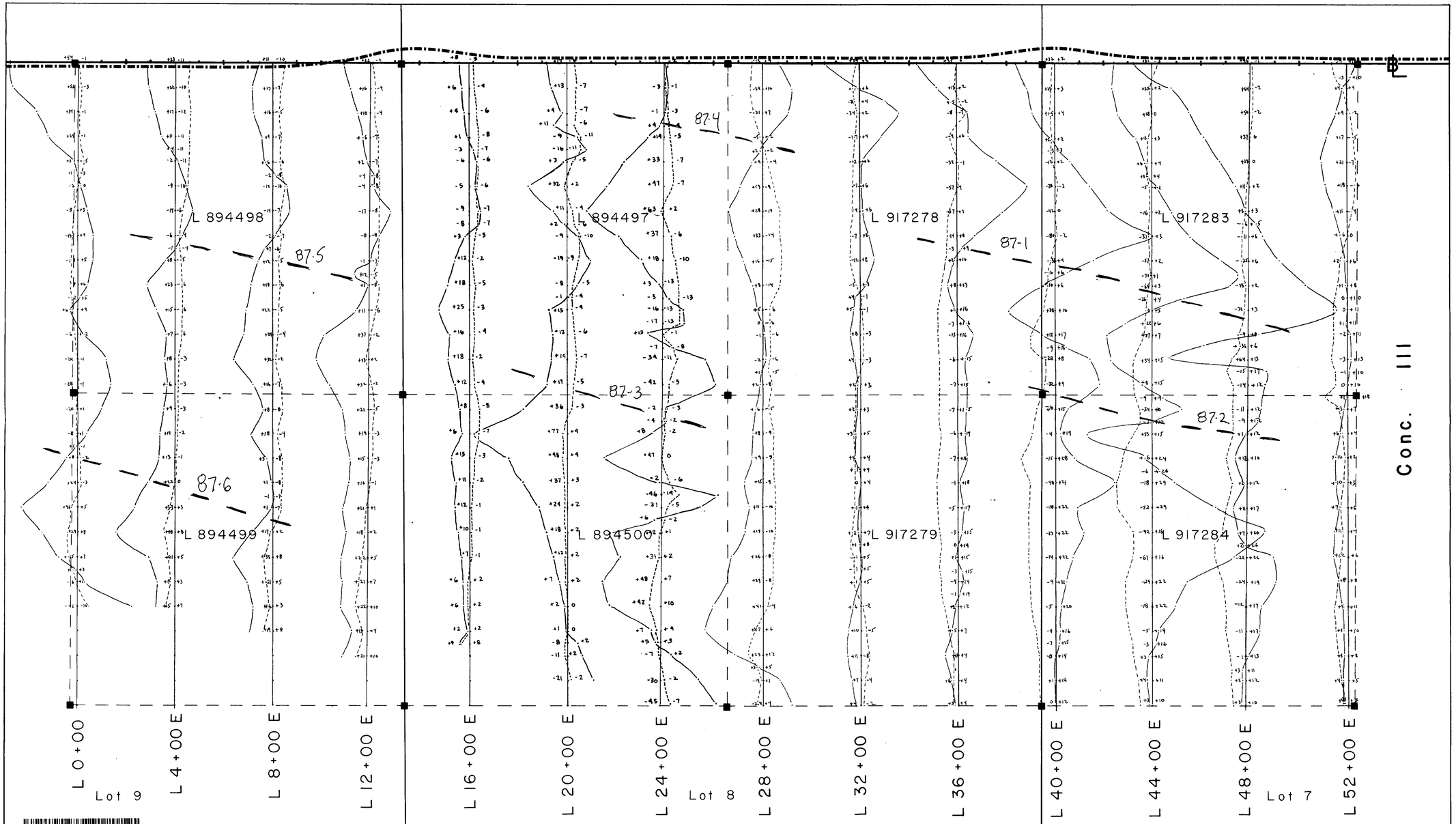
Scale: 1 inch to 200 feet

PERRONS'
KIRKLAND LAKE CANADA

Drawn by: Mary Greer | Map No.: 87-8-A | Date: August 1987

42A01SE0016 2.10395 EBY

2.10395



SYMBOLS

Inphase

Quadrature

VLF conductor

Claim post ■ claim line

Secondary road

INSTRUMENTATION

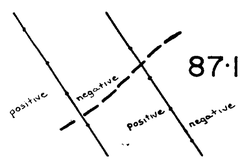
Instrument used : GEONICS EM16

Station used : Cutler, Maine

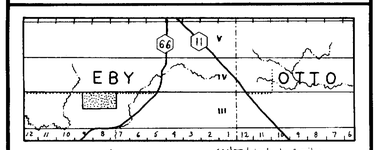
NAA 24.0 kHz

Vertical scale : 1 inch = ± 40%

Plotted by : Anita Helin



KEY MAP



Mary Greer

EBY EIGHT

GROUND VLF-EM SURVEY

EBY TOWNSHIP

LARDER LAKE MINING DIVISION

DISTRICT OF TIMISKAMING, ONTARIO

200 0 200 400 600

Scale: 1 inch to 200 feet

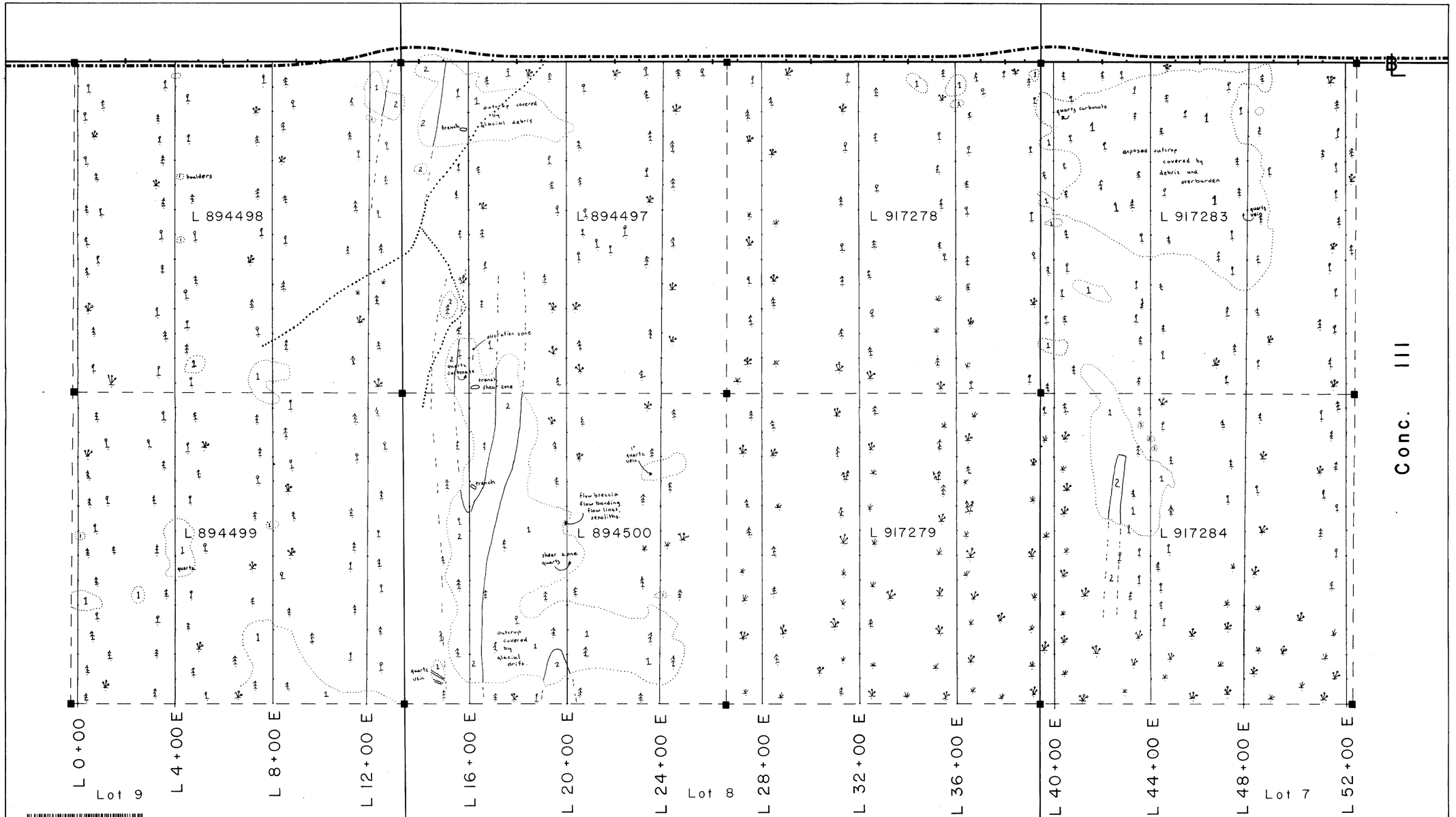
PERRONS'

KIRKLAND LAKE *CANADA*

Drawn by: Mary Greer | Map No.: 87-8-B | Date: August 1987

2.10395

42A01SE0918 2.10395 EBY



N

SYMBOLS

Outcrop ⬭ Pillows

Geological boundary (known) ——— (inferred) – – –

Spruce, balsam fir Cedar

Poplar, birch Alder Swamp

Claim line —— Claim post ■

Road Bush trail .....

LEGEND

PLEISTOCENE

Sand and gravel, silt, clay

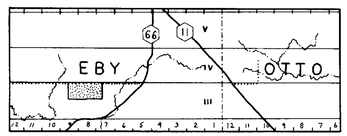
ARCHEAN

2 Matachewan diabase

KEEWATIN

1 Tholeiitic flows, pillow lava

KEY MAP



Mary Greer

EBY EIGHT

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.: 87-8-C | Date: August 1987

2.10395

42A01SE8918 2.10395 EBY