42A01SE8919 2.11385 EBY

010

MARY ELLEN RESOURCES LIMITED

ASSESSMENT REPORT ON CLAIMS L980369, L980368

EBY TOWNSHIP

LARDER LAKE MINING DIVISION

BY

S.J. CARMICHAEL, B.Sc.

RECEIVED

JUL 12 1988

MINING LANDS SECTION

Project # M-002

NTS 42A/SE

June 15, 1988

Kirkland Lake, Ontario

INTRODUCTION

Work was carried out during the months of May and June, 1988 on claims numbered L980368, L980369 and L842562. Mary Ellen Resources Ltd. hold 100% interest in the property.

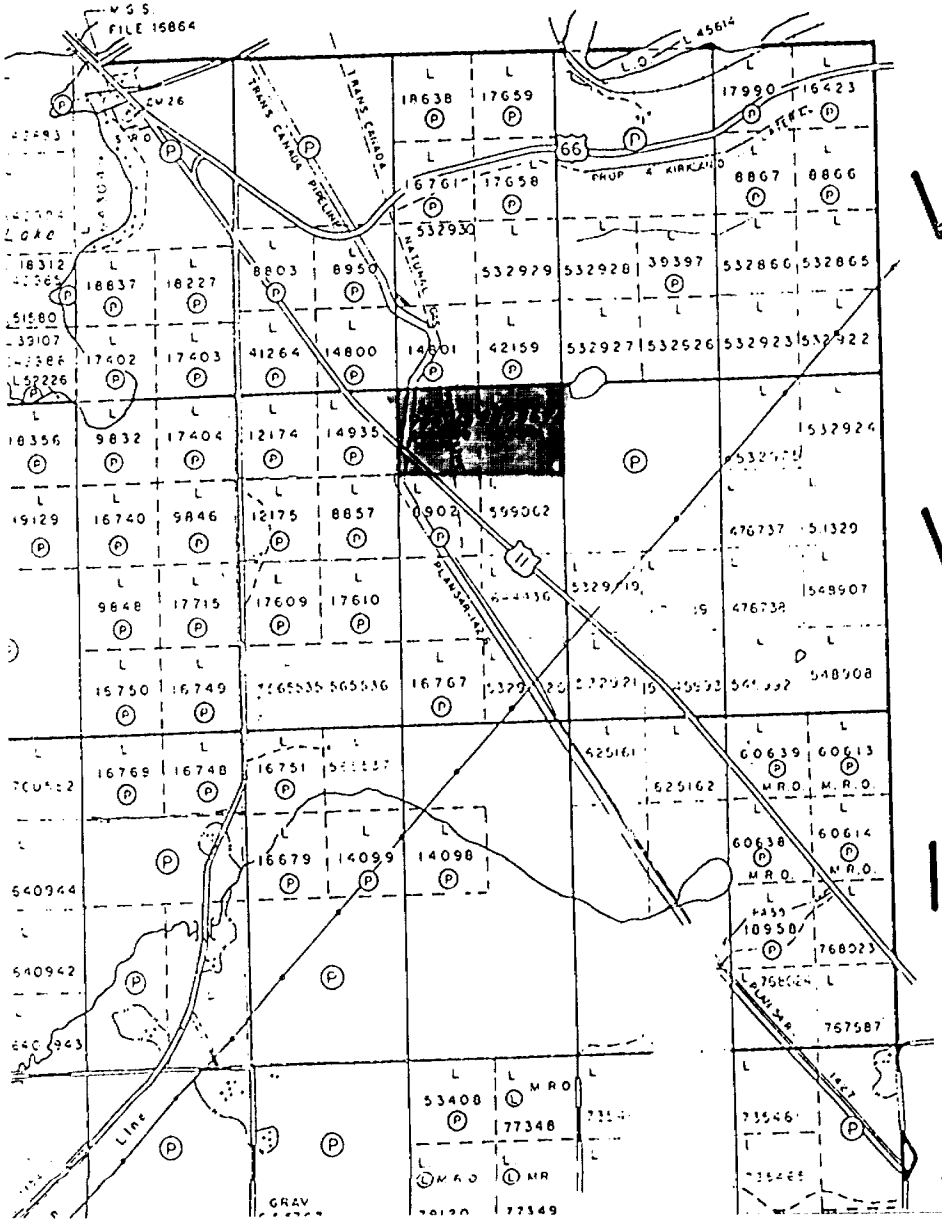
A V.L.F. survey, trench work and sampling was completed on the property.

The results of the program are presented and recommendations for further work are outlined in the report.

LOCATION AND ACCESS

Claims numbered L980368 and L980369 are located in the Eby Township, District of Timiskaming, Concession 5, Lot 3, north 1/2, northwest 1/4 and northeast 1/4 in the province of Ontario. Highway 11 passes through the southwestern portion of claim L980369 which is found approximately two miles (3.2 kilometers) south of the Village of Kenogami.

Twp. M. 351



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	L∝
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

TOPOGRAPHY AND VEGETATION

The claims are overlain by clay and glacial till. Outcrop exposure is estimated at 20 - 30%. The topography is undulating with high relief on the east portion of Claim L980369. The western portion of Claim L980369 and the central and eastern portions of Claim L980368 are characterized by flat relief with minor marshy depressions. Outcrop are elongate and generally ovoid trending 020 degrees.

Both claims have been logged in the past with resulting alders and low bush covering 40% of the area. The remainder of the property is covered by mature forest consisting of spruce, birch and poplar. A small beaver dam lake sits on the north east portion of Claim L980369.

GEOPHYSICAL DISCUSSION

VLF survey was completed over claim numbers L980368, L980369. The survey was carried out through uncut forest. Lines were spaced 100 meters apart with station intervals every 50 meters.

Geonics EM-16 VLF instrument was used to complete the survey using Annapolis Maryland (21.4 KH2) as a base station.

Results show a flat response over claim number L980369 with the exception of a weak anomaly D-D, (Map 1). It is proposed that this anomaly represents the clay-silt bottom of a northeast trending pond/marsh area.

Responses on claim number L980368 were considerably stronger than those found on L980369. It is inferred that anomaly A-A is a response to a graphitic sediment. The graphitic sediment can be seen in outcrop proximal to the first station on line 1.

It is proposed that anomaly B-B is the easterly strike extension of anomaly A-A. East of anomaly B-B the VLF responses are flat. This change may be explained by an abrupt change in lithology or a

north-south offset fault.

TRENCHING

Trenching was completed on claim L980369. The area on claim L980369 was trenched to uncover information pertaining to the geophysical anomally D-D.

Trenching indicates that cause of anomaly D-D is a north-east trending fault intruded by a possible mafic dike. This dike carries up to 5% pyrite over a width of 2 feet. Assays from this dike returned negligable gold values. Further work on the property should include geological mapping with close attention made to carbonate boulders which may indicate stronger mineralized structures on the property.

Respectfully submitted,

Stewart J. Carmichael

Stewart J. Carmichael, B.Sc.

CERTIFICATE OF QUALIFICATIONS

I, Stewart J. Carmichael, of the town of Kirkland Lake, Ontario, in the District of Timiskaming, in the Province of Ontario, do hereby certify that:

1) I am a geologist with Mary Ellen Resources Limited, with an office in Kirkland Lake, Ontario, address P.O. Box 546, Kirkland Lake, Ontario, P2N 3L1.

2) I am a graduate of McMaster University, Hamilton, Ontario, having received the degree of Bachelor of Science, Geology, from the Faculty of Science in 1982. I have since practiced in the field of mineral exploration continuously since graduation.

3) I have knowledge of, and previous exploration experience in the region of the Mary Ellen Resources property, Eby Township.

4) In addition to my personal knowledge of the area, I have made use of the records of the Ministry of Natural Resources of Ontario and of Mary Ellen Resources Limited. I examined and reviewed all data relevant to this study in June and July, 1988.

Dated this 7th day of July, 1988 at Kirkland Lake, Ontario.

S.J. Carmichael

S.J. Carmichael, B.Sc.

Mary Ellen Resources Ltd.

P.O. BOX 5[redacted]
KIRKLAND [redacted]E, ONTARIO
CANADA P2N 3L1
TELEPHONE (705) 642-3291

SUITE 500 - 67 RICHMOND ST.
TORONTO, ONTARIO
CANADA M5H 1Z5
TELEPHONE (416) 361-0737

Mary Ellen Resources Ltd.

Invoice #1

Timberjack and Backhoe Rental Project M-002 Eby Township

70 hours @ $60/hour	$4200.00
1 high pressure pump, hose and fittings	
7 days @ $20/day	140.00
Total	$4340.00

Glenn Kasner
Field Supervisor

Land Management

Ministry of Northern Development and Mines
Ontario

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

DOCU W8

42A01SE8919 2.11385 EBY

98/327 Min.

900

Type of Survey(s): Geophysical (V.L.F.-EM

Township or Area: Eby Township

Claim Holder(s): Mary Ellen Resources Limited

Prospector's Licence No.:

Address: P.O. Box 546, Kirkland Lake, Ontario, P2N 3J5

Survey Company: Mary Ellen Resources Limited

Date of Survey (from & to): 01 05 88 (Day Mo. Yr.) | 10 05 88 (Day Mo. Yr.)

Total Miles of line Cut: 4.4 Km

Name and Address of Author (of Geo-Technical report): S.J. Carmichael, P.O. Box 546, Kirkland Lake, Ontario, P2N 3J5

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	40
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	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	980368	
	980369	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
JUL 26 1988
MINING LANDS SECTION

LAND DIV.
RECEIVED
AUG - 8 1988
AM PM
7 8 9 10 11 12 1 2 3 4 5 6

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 8/88	M.A. Wearne
	Date Approved as Recorded	Branch Director
	See Revised Statement	

Date: July 7/88

Recorded Holder or Agent (Signature): S. Carmichael

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

S.S. Carmichael, P.O. Box 546, Kirkland Lake, Ont. P2N 3J5

Date Certified: July 7/88

Certified by (Signature): S. Carmichael

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) Geophysical (VLF-E.M.)

Township or Area Eby Township, District of Timiskaming

Claim Holder(s) Mary Ellen Resources Limited

P.O. Box 546, Kirkland Lake, Ontario

Survey Company Mary Ellen Resources

Author of Report Stewart J. Carmichael, B.Sc.

Address of Author P.O. Box 546, Kirkland Lake, Ontario

Covering Dates of Survey May 1st to May 10, 1988
(linecutting to office)

Total Miles of Line Cut 4.4 Km.

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	40
--Magnetometer	
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: July 7/88 SIGNATURE: S. Carmichael
Author of Report or Agent

Res. Geol. _____ Qualifications 2.7032

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

	(prefix)	(number)
L		980369
L		980368

If space insufficient, attach list

TOTAL CLAIMS 2

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 51 Number of Readings 51

Station interval 50 meters Line spacing 100 meters

Profile scale 1cm = 10 degrees

Contour interval

MAGNETIC

Instrument

Accuracy -- Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument Geonics EM-16 VLF

Coil configuration

Coil separation Infinite

Accuracy

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

Frequency 21.4 KHz Annapolis, Maryland (specify V.L.F. station)

Parameters measured Orientation and magnitude of the Major and Minor Axes of the eclipse of Polarization

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 _____

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

August 22, 1988

Your file: W8808-327
Our file: 2.11385

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

Re: Notice of Intent dated August 5, 1988
Geophysical (Electromagnetic) Survey
submitted on Mining Claims L 980368-69 et al
in the Township of Eby

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines & Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
AUG 29 1988
RECEIVED

SH:pl
Enclosure

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

Resident Geologist
Kirkland Lake, Ontario

Mary Ellen Resources Limited
P.O. Box 546
Kirkland Lake, Ontario
P2N 3J5

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File 2.11385

Date August 5, 1988

Mining Recorder's Report of Work No. W8808-327

Recorded Holder: Mary Ellen Resources Limited

Township ~~XXXX~~: Eby

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 30 days	L 980368-69
Magnetometer ____ days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☒ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

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

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Grenfell, Twp. M.351

Burt Twp. M.334

Otto Twp. M.379

Blain Twp. M.418

M.O.S. FILE 16864

L.S.R.

L.U.P.

Hydro Line

Crooked Cr.

Transmission Line

TRANS CANADA PIPELINE

NATIONAL GAS LINE

PROP. 4" KIRKLAND LATERAL

GRAVEL FILE 84599

GRAV. P 55787

Gravel P 55767

VI

V

IV

III

II

I

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

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

N½ Lot 7, Con. 3 - Part of Tie Reserve - Sept 17/68

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE ____ TIMISKAMING MANAGEMENT UNIT

AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129
NIPISSING, ONT.
P0K 1T0
705-642-3222

DATE

APR

#

LARDER LAKE MINING DIVISION

PLAN NO. M-345

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

42A01SE8919 2.11385 EBY

200

K. Kalamov

PIPELINE EASEMENT 20 m. CORRIDOR

L1E

L2E

L3E

L4E

L5E

L6E

L7E

L8E

L9E

TRANS CANADA PIPELINE

LAKE

980368 980369

PATENTED 842563

SCALE 1" = 1/2 mile

1 cm = 10°

DIP QUAD

CONDUCTOR AXIS

REVERSE CROSSOVER

LEGEND

INSTRUMENT – GEONICS EM-16
FREQUENCY – 21.4 KHz
STATION – ANNAPOLIS MARYLAND
– CLAIM POST
– LAKE
– SWAMP
– TRENCH
(P) – TRANS CANADA PIPELINE

2.11385

MARY ELLEN RESOURCES LTD.
EBY PROPERTY VLF SURVEY
CLAIM NO.'S 980368 & 980369

SCALE 1:1250

50m 25m 0m 25m 50m

SURVEY BY : J. PROFITT	DATE : JUNE 1988
DRAFTED BY : B. MANION	PROJECT M-002

S. Lamirault July, 1988

42A01SE0919 2.11385 EBY

210