42A01SE0195 2.7131 EBY

010

Geophysical Report on the

Eby Township Property

of

Hemlo Reef Resources Ltd.

E B Y T O W N S H I P

Larder Lake Mining Division

RECEIVED

SEP 0 6 1984

MINING LANDS SECTION

Larder Lake, Ont.

August, 1984

Glenn C. Kasner

Mining Technologist

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Claim Location Map

Enclosed in back flap

Profiled V.L.F. Survey scale 1cm = 25 meters

Contoured Magnetometer Survey scale 1cm = 25 meters

Introduction

The Hemlo Reef Resources Ltd. property on which the ground magnetometer and V.L.F. survey took place comprises one unpatented, unsurveyed mining claim (L-760582), was worked on by the author from October 20 to October 26, 1983. The claim is one of 57 held by Hemlo Reef Resources Ltd. office at 1816 - 44 Victoria Street, Toronto, Ontario, M5C 1Y2. A Phoenix II V.L.F. instrument utilizing the Cutler Maine transmitting station and a geometrics proton magnetometer was used for the surveys. The surveyed claim is one of 57 contiguous claims with the base station located 800 meters to the east of B.L. 0+00. The base station was set to read 59000 gammas with divinal fluctuations corrected for by reading the base station at the start and end of each daily survey. Readings for both the V.L.F. and magnetometer were taken at 25 meter intervals. The area lies in a topographic depression and is covered by swamp and alders.

The claim is located in the north east portion of Eby Township, District of Timiskaming, Concession 4, Lot 6 and may be reached by a dirt road along the south concession line. No previous work has been recorded on the property.

Survey Results

The V.L.F. survey indicates that a weak conductor crosses the claim in an arc fashion and has been folded. The magnetometer survey outlined a relative magnetic high situated on line 8+00W, 2+25S which oriented north east - south west. This magnetometer high flants a magnetic depression which has been folded the same manner as the V.L.F. conductor.

Conclusions

The magnetic depression roughly correlates with the V.L.F. conductor and a closer look at this area should be taken.

Respectfully Submitted

Glenn C. Kasner

Kirkland Lake, Ontario
August 30, 1984

CERTIFICATE OF QUALIFICATIONS

I, Glenn C. Kasner of the Town of Kirkland Lake, District of Timiskaming, in the Province of Ontario, Canada do hereby certify that:

1. I am a mining technologist, a director and employee of Hemlo Reef Resources with an office located at 1816 - 44 Victoria Street, Toronto, Ontario.

2. I am a graduate of Haileybury School of Mines having received the Degree of Mining Technologist in 1976. I have since practiced in the filed continuously as an independent contractor.

3. I have knowledge of, and experience in the region in which the Hemlo - Eby claim is located.

4. In addition to personal knowledge of the area, I have made use of the records of the Ministry of Natural Resources, and of Hemlo Reef Resources in the preparation of this report. I examined this property from October 20, 1983 to October 26, 1984.

Dated this 30th day of August 1984

Glenn C. Kasner, Mining Technologist

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expendi

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900

#245

g claims, traverse
form, attach a list
calculated in the
on may be entered
ays Cr." columns
as below.

Sept. 4/84

Type of Survey(s)	Township or Area
Geophysical	Eby
Claim Holder(s)	**Prospector's Licence No.**
Hemlo Reef Resources	T1566
Address	
5-1816-44 Victoria St Toronto	
Survey Company	**Date of Survey (from & to)** Day / Mo. / Yr. — Day / Mo. / Yr.	**Total Miles of line Cut**
Hemlo Reef Personal	1 / 6 / 83 — 30 / 04 / 84	1.5
Name and Address of Author (of Geo-Technical report)	
Glenn C. Kasner Box 1053 Kirkland Lake Ont	

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	40
	Geophysical - Magnetometer	20
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	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	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	760582	60

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
JUL 17 1984
MINING LANDS SECTION

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

Total number of mining claims covered by this report of work. 1

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
60	JUL 6 1984	
	Date Approved as Recorded	Branch Director
	84.9.14	

Date	Recorded Holder or Agent (Signature)
July 5/84	

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
RJ Kasner Box 993 Kirkland Lake Ont.

Date Certified	Certified by (Signature)
July 5/84	

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) V.L.F. and Magnetometer

Township or Area Eby Township, District of Timiskaming

Claim Holder(s) Hemlo Reef Resources

Survey Company Hemlo Reef Resources

Author of Report _____

Address of Author _____

Covering Dates of Survey Oct. 20 to Oct. 26
(linecutting to office)

Total Miles of Line Cut 2.4 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	20
–Radiometric	
–Other	
Geological	
Geochemical	

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

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

DATE: Nov. 30/84 SIGNATURE: Kenneth Hooper
Author of Report or Agent

Res. Geol. _____ Qualifications 2.2071

Previous Surveys

File No.	Type	Date	Claim Holder

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	760582

If space insufficient, attach list

TOTAL CLAIMS 1

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 85 Number of Readings 85

Station interval 25 meters Line spacing 100 meters

Profile scale

Contour interval 250 gammas

MAGNETIC

Instrument Geometrics G-826 Proton Magnetometer

Accuracy -- Scale constant ± gamma

Diurnal correction method Base station check before and after each daily survey

Base Station check-in interval (hours) 6 hrs

Base Station location and value baseline 0+00, 59000 gammas

ELECTROMAGNETIC

Instrument Phoenix V.L.F. -2

Coil configuration

Coil separation Infinite

Accuracy

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

Frequency Cutler Maine (specify V.L.F. station)

Parameters measured Orientation of the magnitude at 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 _____

_____

_____

_____

_____

_____

_____

_____

_____

Mining Lands Section

File No 2.7031

Control Sheet

TYPE OF SURVEY

✓ GEOPHYSICAL

____ GEOLOGICAL

____ GEOCHEMICAL

____ EXPENDITURE

MINING LANDS COMMENTS:

LD. lga.

S Hurst

Signature of Assessor

84-09-14

Date

1984 09 13

Your File: 245
Our File: 2.7131

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

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) On Mining Claim L 760582 in the Township of Eby.

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

Yours sincerely,

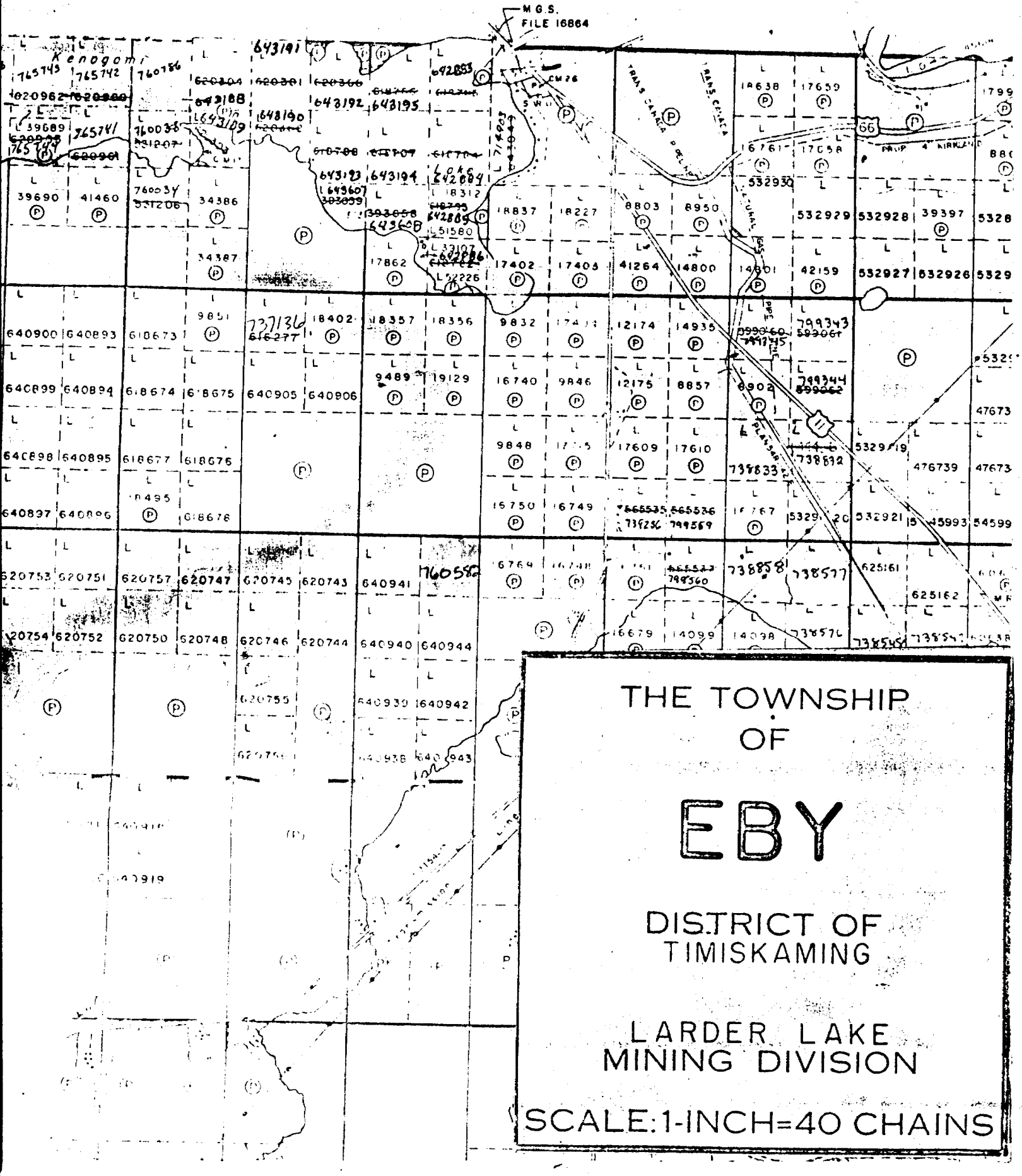
S.E. Yundt
Director
Land Management Branch

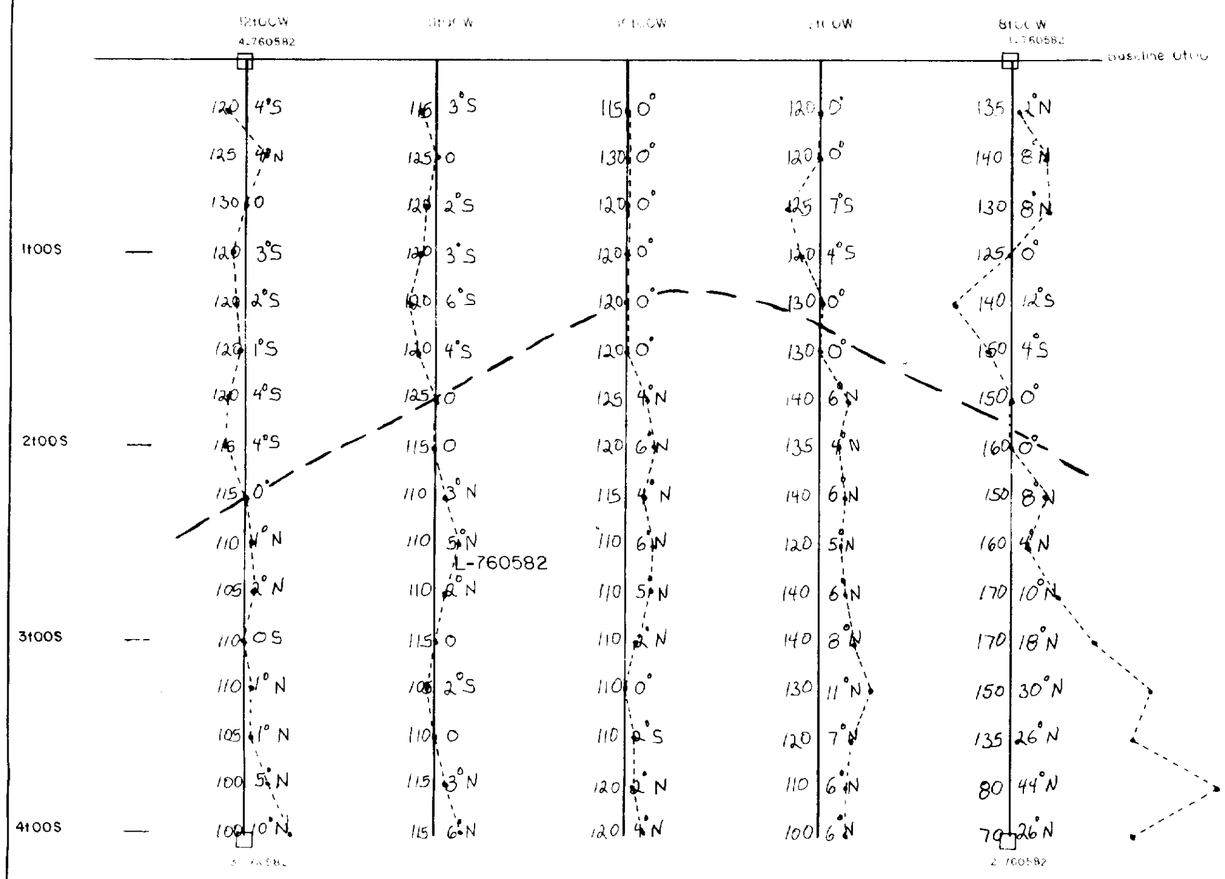
Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

A. Barr:mc

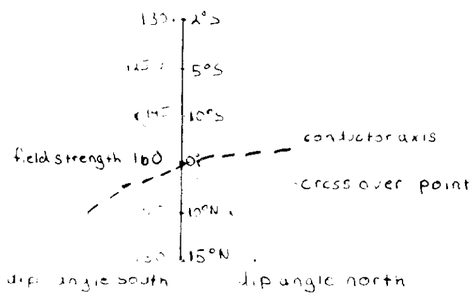
cc: Hemlo Reef Resources
44 Victoria Street
Suite 1816
Toronto, Ontario
M5C 1Y2

Grenfell Twp. M. 351

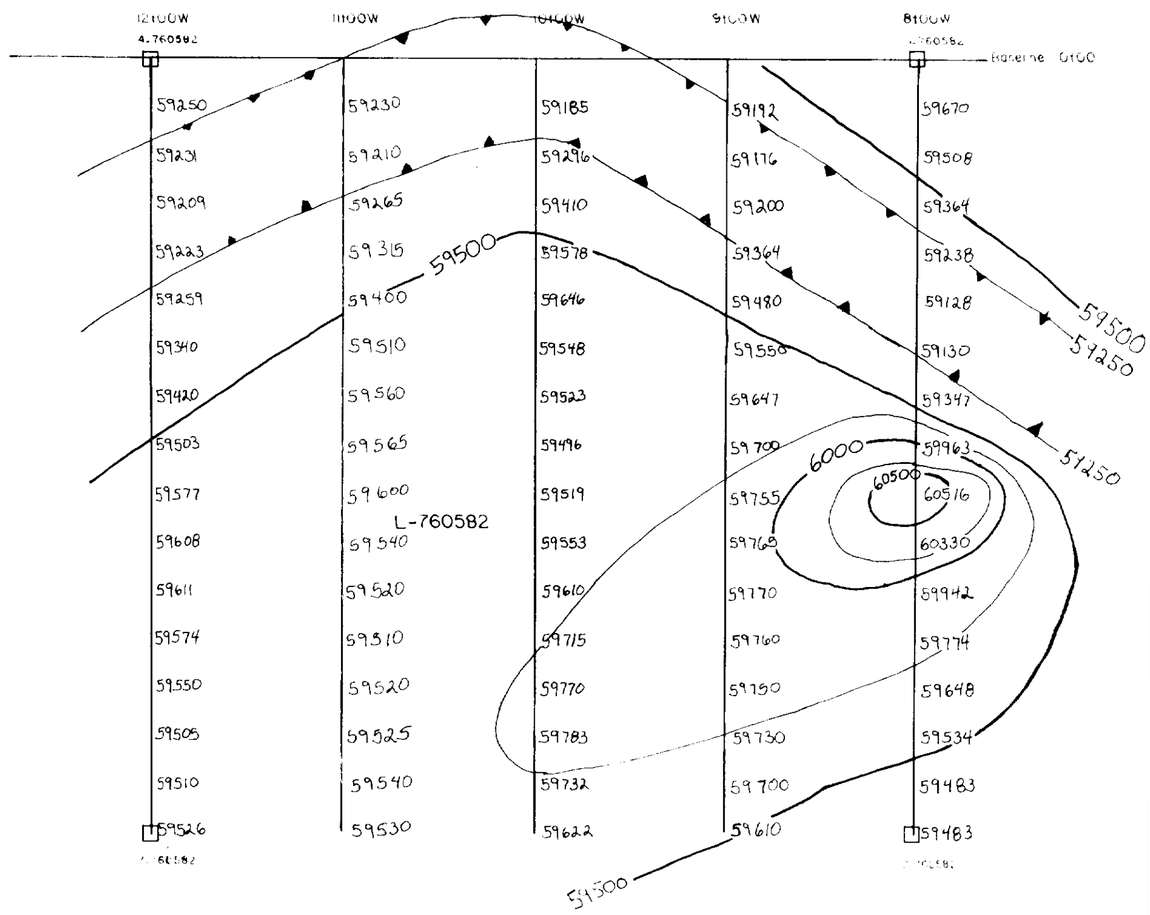




V.L.F SURVEY



FREQ Cutler, Maine 24.8 KHz



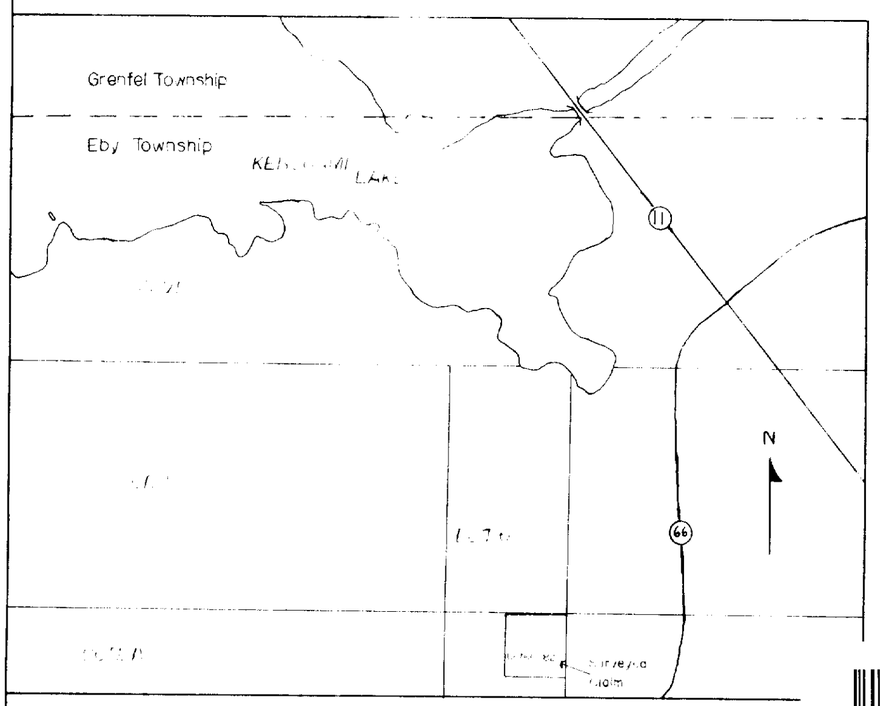
MAG SURVEY

Contour Interval 250 gammas

Base Station Location L 0+00W on Baseline = 59000 gammas

Mag Depression





LOCATION MAP Scale 1"= 2640'

Scale 1cm = 25m

EBY GROUP 2.7131

SURFACE MAG. and V.L.F SURVEY

EBY TOWNSHIP

LARDER LAKE MINING DIVISION

DISTRICT of TIMISKIMING, ONT.

HEMLO REEF RESOURCES

Drawn by: D.D	Drawing No.1	Date: August 1984

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