GEOPHYSICAL REPORT

ON

MAGNETIC AND ELECTROMAGNETIC SURVEYS

CONDUCTED ON MINING CLAIMS:

L 634117 - L 634120 ✓

L 634138 - L 634141 ✓

L 634719 - L 634742 ✓

L 628535 - L 628538 ✓

L 663275 - L 663282

Located in Marathon and Moody Townships

in the Mining Division of Larder Lake, Ontario

by:
P.A. Diorio
April 5, 1983

TABLE OF CONTENTS

INTRODUCTION

This report describes magnetic and electromagnetic surveys which were completed by Utah Mines Ltd. personnel on mining claims located in Marathon and Moody Townships in the mining district of Larder Lake, Ontario. The area in question consists of a single block of 44 contiguous claims which are referred to here as the Marathon Lake Group, after the body of water of the same name, centrally located within this area. The surveys referred to in this report were conducted between February 10th, 1983 and April 5th, 1983.

MINING CLAIMS COVERED BY SURVEY

The Marathon Lake Group held by Utah Mines Ltd. consists of 44 mining claims as follows:

L 634117 - L 634120

L 634138 - L 634141

L 634719 - L 634742

L 628535 - L 628538

L 663275 - L 663282

LOCATION AND ACCESS

The claims of the Marathon Lake Group, lie approximately 32 miles E.S.E. of Cochrane, and straddle the Marathon- Moody township line. The property may be reached using 2 wheel drive vehicle from the main Cochrane- La Reine road. A logging road which leads south from the Cochrane- La Reine road starting ¼ mile west of the Low Bush river, leads directly to the property.

GEOLOGY - TOPOGRAPHY - AND VEGETATION

All claims of the Marathon Lake Group are covered by glacial drift, and no outcrop has been located. Ontario Department of Mines, Map 2205, Timmins - Kirkland Lake Geology Compilation Series, covers Moody and Marathon townships. The Marathon Lake Group are shown here to be underlain by mafic flows and pyroclastic rocks. This information is indicated as to have been derived from geophysical interpretation.

There is very little topographic relief throughout the area. Vegetation consists mainly of black spruce and poplar.

LINECUTTING - SURVEY GRIDS

Prior to commencement of the geophysical surveys, cut line grids were established to cover all the mining claims. Linecutting was carried out by Exploration Services Limited, Noranda Quebec, under contract to Utah Mines Ltd.

The grid was laid out as follows: A baseline, running east-west for 13,200 feet, was established centrally on the property as shown on the accompanying geophysical maps. Tie lines at the northern and southern extremes of the proposed survey lines were then established. North-south running traverse lines were surveyed and cut at 400' intervals. Conventional chaining techniques were used to establish stations at 100' intervals along each survey line with station ØN located on the baseline. At each station wooden pickets were established, which were clearly marked with their respective grid

designations to provide adequate station control for the planned geophysical surveys.

METHODS OF GEOPHYSICAL SURVEYS

(a) Magnetic Survey

The magnetic survey was carried out using a Barringer GM 122 held Proton precession magnetometer. Magnetometers of this type make use of the phenomena called Nuclear Magnetic Resonance. The phenomena is observable when the nuclei of certain materials are first aligned to some direction by an intense magnetic field and then allowed to precess about a "weak" magnetic field. In the case of this survey the "weak" field is the earth's magnetic field. The intense magnetic field is produced by a D.C. current through a coil surrounding a proton rich fluid (Kerosene). When the current is switched off, the protons precess about the earth's field with a frequency directly proportional to that field. The proportionality appears to be a fundamental property of the nuclei and is not influenced by temperature or chemical variations. The frequency is measured by observing the current induced in a coil surrounding the fluid. A magnetometer based on this principle is effectively free from drift. The Barringer magnetometer used for this survey employs a sensor mounted on a staff which is held at arm's length from the operator, thereby reducing possible magnetic

or electromagnetic affects introduced by the operator. The output is in the form of a 5 digit display yielding the total field measurement in gammas (nanoteslas). The resolution and accuracy of this unit is ± 1 gamma.

Magnetic readings must be corrected for the time varying component of the geomagnetic field. This was done by correcting all readings with respect to a base station located on the baseline at L0E. Using this point as a reference, additional base stations were established along the baseline at each traverse line. All magnetometer readings were made at 100' intervals along the traverse lines which were surveyed in loops beginning and ending at a base station. These loops were closed within 1.5 hours. The traverse line data was corrected to the previously established base station values by assuming linear drift during the course of the traverse loop. A total of 1,990 readings were recorded and corrected in this manner. The corrected magnetic values were plotted in plan format at a scale of 1" = 400' and contoured with 50 gamma contour intervals

(b) Electromagnetic Survey

The electromagnetic survey was carried out by Utah Mines Ltd. personnel using an Apex Max-Min II EM system. The Max-Min II EM unit consists of a transmitter coil and console which

generates an alternating primary field at one of four operating frequencies (222,444,888 or 1777 Hz). The choice of frequencies is made primarily on the type and depth of overburden and the type, size and depth of target being sought. In general a lower frequency will result in less geologic noise, have increased depth penetration, but at the same time will reduce sensitivity to conductors of interest.

The transmitter coil of the Apex Max-Min unit is connected to the receiving coil and console by a reference cable of suitable lengths. The choice of cable length lay primarily on the basis of depth to which EM penetration is desired for exploration. While an increased cable length gives greater depth of exploration, it also reduces the resolution of the system.

The receiving console, once tuned and nulled for local ground conditions gives an automatic readout of the real and imaginary components of the secondary field as a percentage of the primary field. With no conductor present, no secondary field is produced and only the primary field is present at the receiver. Under these conditions, 0 in-phase and 0 out-of-phase are recorded.

In the presence of a conductor, a secondary field is produced. Negative, real and quadrature readings are recorded immediately over the conductor. As the leading coil

approaches a conductor, positive readings are observed (positive shoulders). The coils have moved to a point where the conductor lies somewhere between the transmitter and receiver, negative values are observed, the maximum lying when the two coils straddle the conductor. As both coils move off the opposite end of the conductor, a second positive shoulder is observed. The readings are plotted as percentages of the primary field at the mid-point between the transmitter and receiver coils. The values are then profiled to outline anomalous regions.

The depth of penetration of this system is a function of the coil separation and frequency employed, but is generally regarded as being one half of the distance between transmitting and receiving coils. The nominal sensitivity of the instrument is about .2% of the primary field.

This survey was conducted using a 400' coil separation with readings taken at frequencies of 444 and 1777 Hz. The values of real and quadrature readings for each frequency are plotted on the accompanying maps of each grid.

INTERPRETATION

(a) Magnetic Survey

Results of the magnetometer survey are shown on the

accompanying contoured magnetic maps. The maps are drawn at a scale of 1" = 400' and the magnetic values are contoured at an interval of 50 gammas.

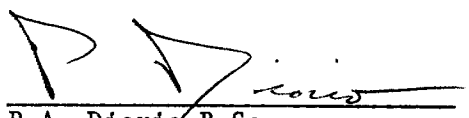
Variation of the magnetic field within this area is rather modest. In particular the east half of the grid shows very little magnetic variation. The west half of the grid is dominated by north to northeast bearing linear features which probably reflect diabase dykes pervasive in this geologic province. Since the direction of the survey lines is inappropriate for adequate resolution of narrow anomalies which strike north-south no detailed interpretation has been attempted. However the validity of the data was checked by running traverses along the baseline and both the north and south tie lines.

(b) Electromagnetic Survey

The Max-Min II data are plotted as profiles on the accompanying plan maps of the grid, drawn at a scale of 1" = 400'.

The EM data are dominated by large offsets in both the in and out-of-phase profiles. This is indicative of thick conductive overburden. No bedrock features of interest to the current exploration program were noted.

Marathon Lake Report (Continued)



P.A. Diorio B.Sc
Geophysicist
UTAH MINES LTD.

Ministry of Natural Resources
Ontario

W9308-071 ~~Report of Work~~
(Geophysical, Geological, Geochemical and Expenditures)

Lands

42A16NW0011 2.5533 MARATHON

900

File # L 634117

The M

Type of Survey(s): Electromagnetic and magnetic	Township or Area: Marathon & Moody Townships
Claim Holder(s): Utah Mines Ltd.	Prospector's Licence No.: T 793
Address: 4 King St. W. Suite 1406, Toronto, Ontario M5H 1B6	
Survey Company: Utah Mines Ltd.	Date of Survey (from & to): 10 02 83 (Day Mo. Yr.) 17 03 83 (Day Mo. Yr.)
Total Miles of line Cut: 43	
Name and Address of Author (of Geo-Technical report): P.A. Diorio, Utah Mines Ltd. 4 King St. W. Suite #1406, Toronto, 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	40
	Geophysical - Magnetometer	20
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	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	

RECEIVED
APR 12 1983
MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	634117	
	634118	
	634119	
	634120	
	634138	
	634139	
	634140	
	634141	
	634719	
	634720	
	634721	
	634722	
	634723	
	634724	
	634725	
	634726	
	634727	
	634728	
	634729	
	634730	
	634731	
	634732	
	634733	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	634734	
	634735	
	634736	
	634737	
	634738	
	634739	
	634740	
	634741	
	634742	
	628535	
	536	
	537	
	538	
	663275	
	276	
	277	
	278	
	279	
	280	
	281	
	282	

Total number of mining claims covered by this report of work: 44

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

RECEIVED
MAR 17 1983
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

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: MAR 22 1983

Mining Recorder:

Date Approved as Recorded: Branch Director

Date: March 15/83

Recorded Holder or Agent (Signature): P.Diorio

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: P.A. Diorio, Utah Mines Ltd. 4 King St. W. Suite 1406, Toronto, Ontario M5H 1B6

Date Certified:

Certified by (Signature):

1362 (81/9)

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.5533

Mining Lands Comments

July 5/83

4 To: Geophysics Mr. Roger Barlow

Comments

☑ Approved ☐ Wish to see again with corrections | Date August 9/83 | Signature

☐ To: Geology - Expenditures

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Geochemistry

Comments

L.D.

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1593 (81/10)

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) Magnetic- Electromagnetic

Township or Area Marathon, + Moody Twp.

Claim Holder(s) Utah Mines Ltd.

Survey Company Utah Mines Ltd.

Author of Report P. Diorio

Address of Author 4 King St. W. #1406, Toronto, Ontario

Covering Dates of Survey 10/02/83 to 05/04/83
(linecutting to office)

Total Miles of Line Cut 43

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: 5 April '83 SIGNATURE: D Diorio
Author of Report or Agent

Res. Geol. _____ Qualifications 2.4695

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

Please see attached list

If space insufficient, attach list

TOTAL CLAIMS _____

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 1990 Number of Readings Mag = 1990, EM = 1771x4

Station interval 100' Line spacing 400'

Profile scale 50% per inch (EM)

Contour interval 50 gammas per inch (MAG)

MAGNETIC

Instrument Barringer GM 122

Accuracy – Scale constant #1 Gamma

Diurnal correction method Base station loops, linear drift removed

Base Station check-in interval (hours) 1.5 hours maximum

Base Station location and value Baseline at line 0E

Value 59010 gammas

ELECTROMAGNETIC

Instrument Apex Parametrics Ltd. MAXMIN II

Coil configuration Co-planer horizontal loop

Coil separation 600 feet

Accuracy ±.2%

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

Frequency 1777 Hz, 444 Hz
(specify V.L.F. station)

Parameters measured In Phase and Out of Phase in percentage of primary field for each frequency.

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

MINING CLAIMS TRAVERSED (List numerically)

Prefix	Number
L	634117
L	634118
L	634119
L	634120
L	634138
L	634139
L	634140
L	634141
L	634719
L	634720
L	634721
L	634722
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L	634738
L	634739
L	634740
L	634741
L	634742
L	628535
L	628536
L	628537
L	628538
L	663275
L	663276
L	663277
L	663278
L	663279
L	663280
L	663281
L	663282

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 _____

_____

_____

_____

_____

_____

_____

_____

_____

2.5533

71

1983 10 05

2.5533

Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

RE: Geophysical (Electromagnetic & Magnetometer) Survey
on Mining Claims L 634117 et al in the Townships of
Marathon and Moody

The Geophysical (Electromagnetic & Magnetometer) Survey assessment work credits as listed with my Notice of Intent dated September 5, 1983 have been approved as of the above date.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

D. Kinvig:sc

cc: Utah Mines Limited
Suite 1406
4 King Street West
Toronto, Ontario

cc: Resident Geologist
Kirkland Lake, Ontario

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.5533

Date 1983 09 05

Mining Recorder's Report of Work No. 71

Recorded Holder: UTAH MINES LIMITED

Township or Area: MARATHON & MOODY

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L 628535 to 38 incl 634117 to 20 incl 634138 to 41 incl 634719-20 634723 to 33 incl 634735 to 42 incl 663276
Electromagnetic 40 days	
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

20 days Electromagnetic

L 634721-22
634734
663275
663277 to 82 incl.

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; Geological — 40; Geochemical — 40; Section 77 (19) — 60:

828 (83/6)

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.5533

Date 1983 09 05

Mining Recorder's Report of Work No. 71

Recorded Holder
UTAH MINES LIMITED

Township or Area
MARATHON & MOODY

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L 628535 to 38 inclusive 634117 to 20 inclusive 634138 to 41 " 634719 to 42 " 663276 663278 to 82 inclusive
Electromagnetic _____ days	
20 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

10 days Magnetometer

L 663275
663277

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; Geological — 40; Geochemical — 40; Section 77(19)—60:

828 (83/6)

Ministry of Natural Resources

Ontario

Sept 26 '83

Your file: 71

1983 09 05

Our file: 2.5533

Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

for D. Kinvig:sc

Encls:
cc: Utah Mines Limited
Suite 1406
4 King Street West
Toronto, Ontario

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

845 FILE

Ministry of Natural Resources
Ontario

Notice of Intent

for Technical Reports

1983 09 05

2.5533

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

#71 L 634117

2.5533

1983 06 01

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 Geophysical (Electromagnetic and Magnetometer) survey submitted under Special Provisions (credit for performance and Coverage) on mining claims L 634117 et al in the Townships of Marathon and Moody.

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

Yours very truly,

E. F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3

Phone: (416) 965-1380

A.Barr:md

cc Utah Mines Ltd.
Suite 1406, 4 King Street West
Toronto, Ontario
M5H 1B6
Attention: Mr. P. Diorio

UTAH MINES LTD.

MINERAL EXPLORATION

SUITE 1406, 4 KING STREET WEST. TORONTO, ONTARIO. CANADA M5H 1B6
(416) 368-3884

May 9, 1983

Ministry of Natural Resources,
Mining Lands Section,
Room 6450,
99 Wellesley Street, West,
Whitney Block, Queen's Park
Toronto, Ontario M7A

Attention: Mr. Arthur Barr

Dear Sir:

Please find enclosed duplicate, signed copies of Assessment Work Reports, Geophysical Plans and Technical Data Statements for each of two groups of claims, one in Marathon and Moody Townships, the other in Galna Township. These reports pertain to the claims listed on the attached Reports of Work filed with the Ministry of Natural Resources in March, 1983.

Yours truly,

P.A. Diorio
Geophysicist
Utah Mines Ltd.

PAD/ca

	E.M.	Mag.		E.M.	Mag.	2.5533	E.M.	Mag.
L-663535	✓	✓	L-634722	~½	✓	L-634737	✓	✓
36	✓	✓	23	✓	✓	38	✓	✓
37	✓	✓	24	✓	✓	39	~¼✓	✓
628538	✓	✓	25	✓	✓	40	✓	✓
634117	~¼✓	✓	26	✓	✓	41	✓	✓
18	✓	✓	27	✓	✓	634742	~¼✓	✓
19	✓	✓	28	✓	✓	663275½	½	½
634120	~¼✓	✓	29	✓	✓	76	✓	✓
634138	~¼✓	✓	30	~✓	✓	77 ½	½	½
39	✓	✓	31	✓	✓	78	~½	~¼✓
40	✓	✓	32	✓	✓	79	~½	~¼✓
634141	~¼✓	✓	33	¼	~¼	80	½	~¼✓
634719	✓	✓	34½	½	¼	81	½	~¼✓
20	✓	✓	35	✓	✓	663282	½	~✓
634721	½ ½	✓	634736	✓	✓	½		
						O.K.		

Findlay Twp.

Sherring Twp.

Bowyer Twp.

Moody Twp.

VI

V

IV

III

II

I

13 12 11 10 9 8 7 6 5 4 3 2 1

Bingle L.

Upper Bingle L.

Bingle Cr.

BINGLE STA.

C.N.R.

Ballast Pit

SUBDIVISION

Marathon

2.5533

641294 641295 641303
641293 641296 641302 641304 641311 641312 641323 641324
641297 641301 641305 641310 641313 641322 641325 641263 641264
641298 641300 641306 641309 641314 641321 641328 641262 641265 641274
641299 641307 641308 641315 641316 641327 641261 641266 641273 641275 641282 641283 641290 641220 641221 641222
641317 641318 641326 641328 641260 641267 641272 641276 641281 641284 641285 641224 641225 641226 641227 641228 641229 641230 641231
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641257 641258 641269 641270 641278 641279 641286 641287
634720 634741 634742
634719 634740 634728 634722 634723 634729 634735 634736 634737 634738
562482 562415 562481 562478 562477 634718 634739 634729 634726 634720
562414 562417 562480 562479 562476 562413 634717 634738 634730 634725 634724 634719 634732 634733 634734

42A16NW0011 2.5533 MARATHON

200

THE TOWNSHIP OF

MARATHON

DISTRICT OF COCHRANE

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
ROADS	
IMPROVED ROADS	
KING'S HIGHWAY	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	

NOTES

Flooded area shown thus below contours 826' & 881' covered by L.O. 8674

400' Surface Rights Reservation around all Lakes and Rivers.

DATE OF ISSUE
AUG 15 1983
Ministry of Natural Resources
TORONTO

PLAN NO — M.542

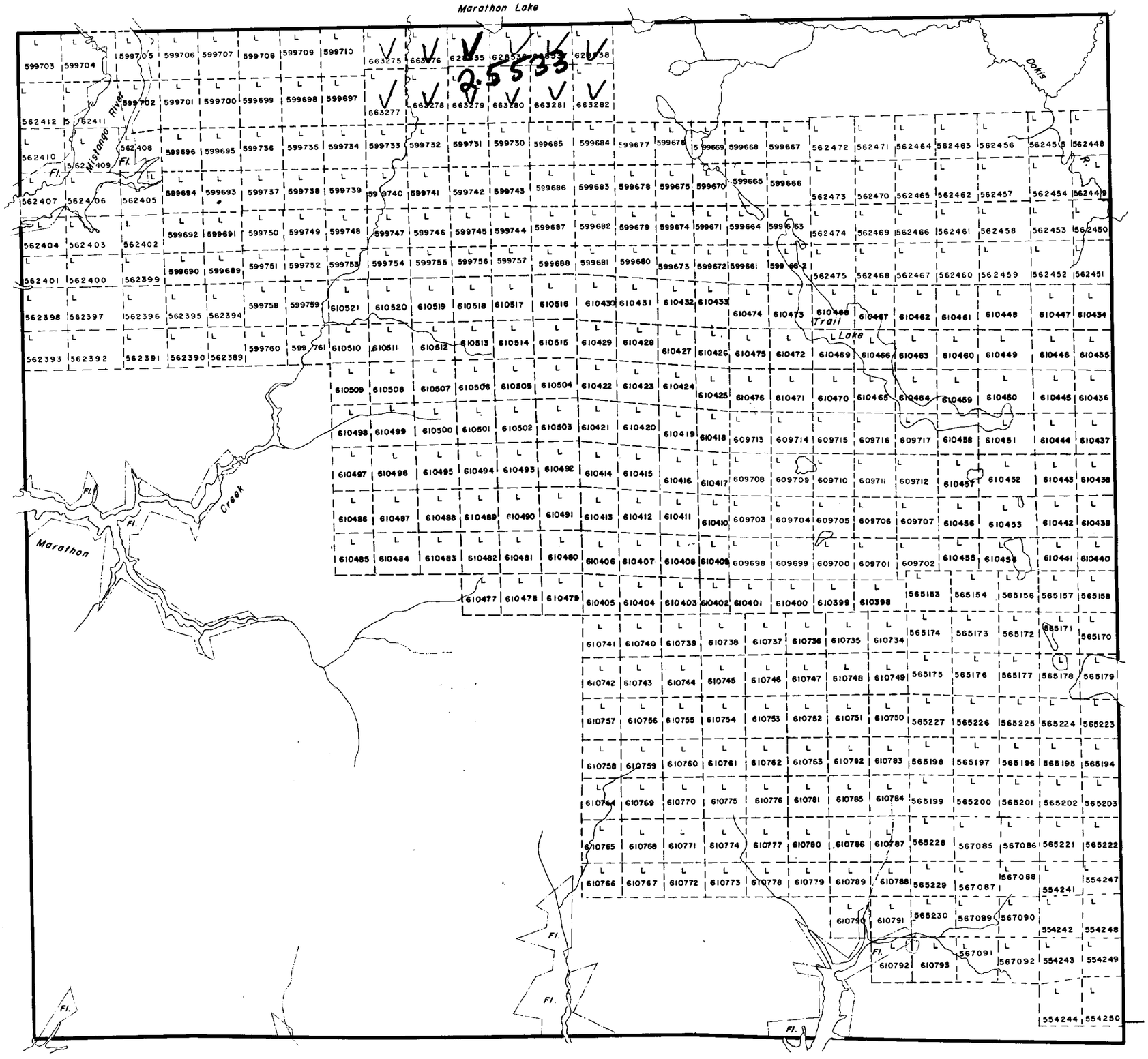
MINISTRY OF NATURAL RESOURCES
SURVEYED MAPPING BRANCH

MARATHON TP. M.542

WESLEY TP. M.613

GALNA TP. M.480

KNOX TP. M.525



THE TOWNSHIP OF MOODY

DISTRICT OF COCHRANE

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.

L.O. 8674 shown thus: covers land below contour 826' and 881'.

Subdivision of this township in lots and concessions was annulled May 29, 1963.

DATE OF ISSUE
AUG 15 1983
Ministry of Natural Resources
TORONTO

PLAN NO.- M. 1832

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

J.P.V.K.

42A16NW0011 2.5533 MARATHON

634120 634141 634119 634140 634728 634727 634722 634721 634739 634740 634741 634742

MARATHON

634118 634139 634729 634726 634723 634720 634735 634736 634737 634738

LAKE

634117 634138 634730 634725 634724 634719 634731 634732 634733 634734

Marathon Twp

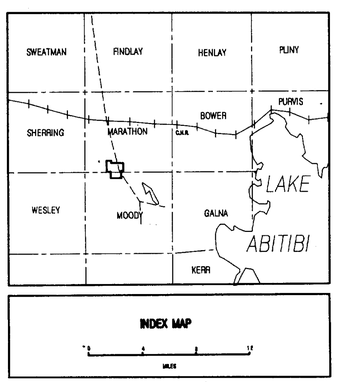
L8 2W L8 8W L8 4W L8 0W L7 6W L7 2W L6 8W L6 4E L2 0E L2 4E L2 8E L3 2E L3 6E L4 0E

Moody Twp

663275 663276 628535 628536 628537 628538

663277 663278 663279 663280 663281 663282

L8 4W L8 0W L5 6W L5 2W L4 8W L4 4W L4 0W L3 6W L3 2W L2 8W L2 4W L2 0W L1 6W L1 2W L8W L4W L0E L4E L8E L1 2E



INDEX MAP

MILES

N

UTAH MINES LIMITED
EXPLORATION DEPARTMENT
Toronto,Ont,Canada

MARATHON LAKE PROPERTY
Magnetometer Survey
TOTAL FIELD CONTOURS
Contour Interval=50 Gammas

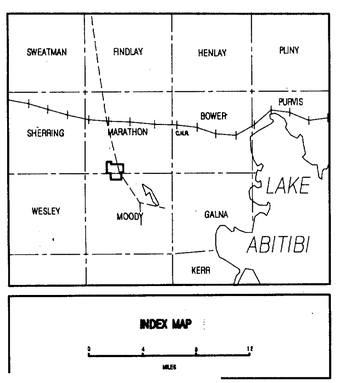
Date	Drawn	Checked	Revised	NTS	File	Map

0 400 800 1200
Ft

42A16NW0011 2.5533 MARATHON

220

2.5533



UTAH MINES LIMITED
EXPLORATION DEPARTMENT
Toronto,Ont,Canada

MARATHON LAKE PROPERTY

Magnetometer Survey

TOTAL FIELD VALUES

(in Gammas)

Date	Drawn	Checked	Revised	NTS	File	Map

0 400 800 1200
Ft

2.5533

6341 20
6341 41
6341 19
6341 40
6341 18
6341 39
6341 17
6341 38
6347 30
6347 29
6347 28
6347 27
6347 26
6347 25
6347 22
6347 23
6347 24
MARATHON
6347 21
6347 20
LAKE
6347 19
6347 39
6347 35
6347 31
6347 40
6347 36
6347 32
6347 41
6347 37
6347 33
6347 42
6347 38
6347 34
Marathon Twp
Moody Twp
L92W
L88W
L84W
L80W
L76W
L72W
L68W
L64W
L60W
L56W
L52W
L48W
L44W
L40W
L36W
L32W
L28W
L24W
L20W
L16W
L12W
L8W
L4W
L0E
L4E
L8E
L12E
L16E
L20E
L24E
L28E
L32E
L36E
L40E
6632 75
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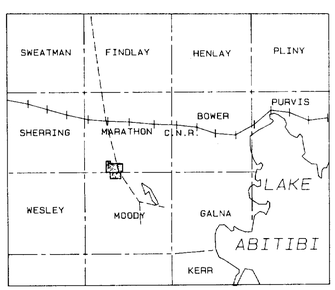
6632 82



INDEX MAP

0 4 8 12
MILES

LEGEND

In-Phase
Out-of-Phase
Claim Post
20N+ Survey Station

NOTE: Profiles plotted with Positive Towards East

UTAH MINES LIMITED
EXPLORATION DEPARTMENT
Toronto, Ont, Canada

MARATHON LAKE PROPERTY
Maxmin II Survey

FREQUENCY 444 Hz.
COIL SPACING 600'
In phase (solid) at 20% per inch
Out-of-Phase (dashed) at 20% per inch

Date	Drawn	Checked	Revised	NTS	File	Map

0 400 800 1200
Ft.

42A16NW0011 2.5533 MARATHON

240

25533

INDEX MAP

0 4 8 12

MILES

UTAH MINES LIMITED

EXPLORATION DEPARTMENT

Toronto,Ont,Canada

MARATHON LAKE PROPERTY

Maxmin II Survey

FREQUENCY 444 Hz.

COIL SPACING 600'

In Phase/Out-of-Phase values in %

Date	Drawn	Checked	Revised	NTS	File	Map

0 400 800 1200

Ft

42A16NW0011 2.5533 MARATHON

250

25533

634120 634141

634119 634140 634728 634727 634722 MARATHON 634721 634739 634740 634741 634742

634118 634139 634729 634726 634723 634720 LAKE 634735 634736 634737 634738

634117 634138 634730 634725 634724 634719 634731 634732 634733 634734

Marathon Twp

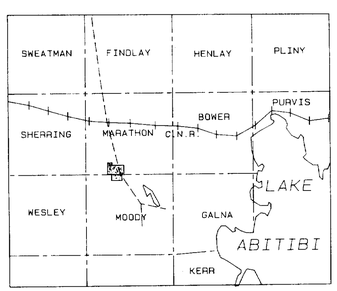
L92W L88W L84W L80W L76W L72W L68W L16E L20E L24E L28E L32E L36E L40E

Moody Twp

663275 663276 628535 628536 628537 628538

663277 663278 663279 663280 663281 663282

L64W L60W L56W L52W L48W L44W L40W L36W L32W L26W L24W L20W L16W L12W L8W L4W L0E L4E L8E L12E



INDEX MAP

0 4 8 12

MILES

LEGEND

In-Phase

Out-of-Phase

Claim Post

20N+ Survey Station

NOTE: Profiles plotted with Positive Towards East

UTAH MINES LIMITED
EXPLORATION DEPARTMENT
Toronto, Ont, Canada

MARATHON LAKE PROPERTY
Maxmin II Survey

FREQUENCY 1777 Hz.
COIL SPACING 600'
In phase (solid) at 50% per inch
Out-of-Phase (dashed) at 50% per inch

Date	Drawn	Checked	Revised	NTS	File	Map

0 400 800 1200 Ft

42A16NW0011 2.5533 MARATHON

260

2.5533

INDEX MAP

0 4 8 12
MILES

UTAH MINES LIMITED

EXPLORATION DEPARTMENT
Toronto,Ont,Canada

MARATHON LAKE PROPERTY

Maxmin II Survey

FREQUENCY 1777 Hz

COIL SPACING 600'

In Phase/Out of phase values in %

Date	Drawn	Checked	Revised	NTS	File	Map

0 400 800 1200
Ft

42A16NW0011 2.5533 MARATHON

2.5533