



32D04NW0395 2.8321 MORRISETTE

010

GRID M21
MORRISETTE TOWNSHIP,
LARDER LAKE MINING DIVISION,
NTS 32D4

REPORT ON
MAGNETIC SURVEY

A. James Walker, P. Eng.

April 24, 1985

62-2234

RECEIVED

AUG - 1 1985

MINING LANDS SECTION



32D04NW0395 2.8321 MORRISSETTE

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ENCLOSURES

Grid M21	Magnetic Survey	Contours 1:5000
	Magnetic Survey	Values 1:5000

INTRODUCTION

Walker Exploration contracted to carry out a magnetic survey over 8 mineral claims in the southwest part of Morrisette Township, about 5 kilometers northeast of Kirkland Lake.

Linecutting was carried out in January 1985 by Jean Alix Co. Ltd., while the magnetic survey was made March 29th and 30th, 1985, over approximately 12.5 kilometers of line.

The survey was carried out with an EDA PPM 300 total field proton magnetometer. An EDA PPM 400 base station magnetometer was used for diurnal control.

SUMMARY

This magnetic survey shows a general E-W trend to volcanics. Isolated magnetic highs likely represent diorites or basaltic units. Previous HLEM surveys did not locate near surface conductors, but VLF-EM located a zone along the southerly two claims.

PROPERTY

This 8 claim property is located in the southwest part of Morrisette Township (Claims 803343-803350 inclusive). The group is about 5 kilometers north of Kirkland Lake. Access is via a bush road running south-east of the Kirkland Lake airport (about 2 kilometers).

PREVIOUS WORK

In 1972 Pioneer Consultants for Tornado Mines carried out magnetic and horizontal loop EM surveys over most of this group. Magnetics were generally flat with no good conductors indicated.

In 1978 Rio Tinto did magnetic and VLF-EM on claims to the west and south of this property. A weak VLF zone occurs just west of Claim 803343.

In 1980 Rosario Exploration did geological mapping on the east part of this block, reporting andesites and basalts with an east-west trend. A magnetic survey confirmed the east-west trend while the VLF-EM shows a conductor crossing the south part of the group (803343 and 803344), with weaker zones to the north.

Rosario also drilled 2 holes on Claim 803343, mainly basalt. One hole intersected a fault at 107-116 and had to be stopped (Hole drilled south at -50°) after going into broken core, sand and gravel, and weathered breccia. With the proximity to Kirkland Lake, it is assumed the property has been the object of much prospecting over the years.

GENERAL GEOLOGY (OGS Report 84, Map 2193)

The geological map shows the group to be mainly drift covered. It is located in an area of easterly trending Keewatin volcanics. Outcrops

of diorite have been mapped to the west of the grid.

SURVEY METHOD

The magnetic survey was performed with an EDA PPM 300 magnetometer, measuring total field to 0.1 gammas. Diurnal control was made by using an EDA base station magnetometer (PPM 400) located on the Esker Lake road. Other grids on this project are tied into this base station, so a common base level for all grids was established.

The magnetometer and base station have solid state memory for storage of values and location of stations read. The units are plugged together each evening and the computer programme allows for automatic diurnal corrections to field values. Corrected data was stored on cassette of an HP85 computer.

Observations were made at 25 meter intervals on lines 125 meters apart. As well base line and tie lines were read. Values are plotted on a plan at a scale of 1:5000. Contours of values are plotted on a separate sheet at 25 gamma intervals.

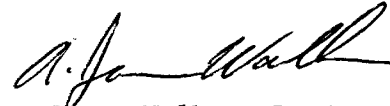
SURVEY RESULTS

The survey shows a general east-west trend to the volcanic rocks. Magnetic highs likely represent mafic intrusions.

CONCLUSIONS

The survey should be related to previous work and should provide a good base for planning further exploration on this project.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "A. James Walker".

A. James Walker, P. Eng.

AJW/sb

SURVEY DATA

Grid M21

Morrisette Township, Larder Lake Mining Division, Ontario

Geophysical Contractor - Walker Exploration Ltd.

Covering Dates - Linecutting - January 1985
Magnetic Survey - March 29-30, 1985
Drafting - April 16-17, 1985
Report - April 24, 1985

Line Coverage - Linecutting - 12.475 kilometers
Magnetic Survey - 12.475 kilometers
Readings - 513
Line spacing - 125 meters
Station spacing - 25 meters

Crew

Linecutting - Jean Alix Co. Ltd., Val D'Or Quebec
Magnetic Survey - J. Tough, Bracebridge, Ontario
D. Miles, London, Ontario
Drafting - R. T. Marcroft, Mississauga, Ontario
Field Report - A. J. Walker, Mississauga, Ontario

Instruments

Magnetic Survey - EDA PPM 300 Proton, Total Field
Direct Reading, 0.1 Gamma
Solid State Memory
EDA PPM 400 Base Station Recorder

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 462 Number of Readings 513
Station interval 25 meters Line spacing 125 meters
Profile scale
Contour interval 25 Gammas

MAGNETIC

Instrument EDA PPM 300
Accuracy - Scale constant Readout to 0.1 Gammas
Diurnal correction method Base Station Recorder EDA PPM 400
Base Station check-in interval (hours) Continuous (15 second)
Base Station location and value On Esker Lake Road just north of north arm of
Victoria Lake - 58640 Gammas

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency (specify V.L.F. station)
Parameters measured

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method [] Time Domain [] Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing
Type of electrode



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900

Mining Lands Section

File No 28321

Control Sheet

TYPE OF SURVEY

- GEOPHYSICAL
- GEOLOGICAL
- GEOCHEMICAL
- EXPENDITURE

MINING LANDS COMMENTS:

← Morrisette →

L.D.

Denis K.

Signature of Assessor

Aug-22/05

Date



Ministry of
Natural
Resources

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

28321

- Instructions: - Please type or print. #281
- 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.

(File # 803343) The Mining Act

Type of Survey(s) Geophysical - Mag.	Township or Area Morrisette Twp.
Claim Holder(s) Lac Minerals Ltd.	Prospector's Licence No. T-664
Address Suite 2105, North Tower, Royal Bank Plaza, P.O. Box #156, Toronto, Ont. M5J 2J4	
Survey Company Walker Exploration Ltd.	Date of Survey (from & to) 01 01 85 24 04 85 Day Mo. Yr. Day Mo. Yr.
Total Miles of line Cut 12.5 km	
Name and Address of Author (of Geo-Technical report) A. James Walker, 10 Hurontario St., Mississauga, Ont.	

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- 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		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	803343				
	803344				
	803345				
	803346				
	803347				
	803348				
	803349				
	803350				

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AUG 20 1985
MINING LANDS SECTION

LARDER LAKE
MINING DIV.
RECEIVED
AUG - 5 1985
AM PM
7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 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.

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

Date **5 July/85** Recorded Holder or Agent (Signature) *Denise McDermid*

For Office Use Only

Total Days Cr. Recorded **320** Date Recorded **AUG 6 1985** Mining Recorder

Date Approved as Recorded **85-08-27** Branch Director *J.R. [Signature]*

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
**Denise McDermid, Lac Minerals Ltd., Suite 2105, North Tower, Royal Bank Plaza,
P.O. Box #156, Toronto, Ont. M5J 2J4**

Date Certified **05 July, 1985** Certified by (Signature) *Denise McDermid*

1985 08 15

File: 2.8321

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

Dear Sir:

We received reports and maps on August 1, 1985 for a Geophysical (Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 803343, et al, in Morrisette Township.

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

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

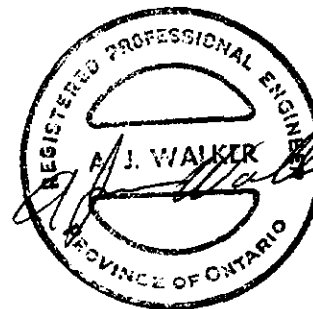
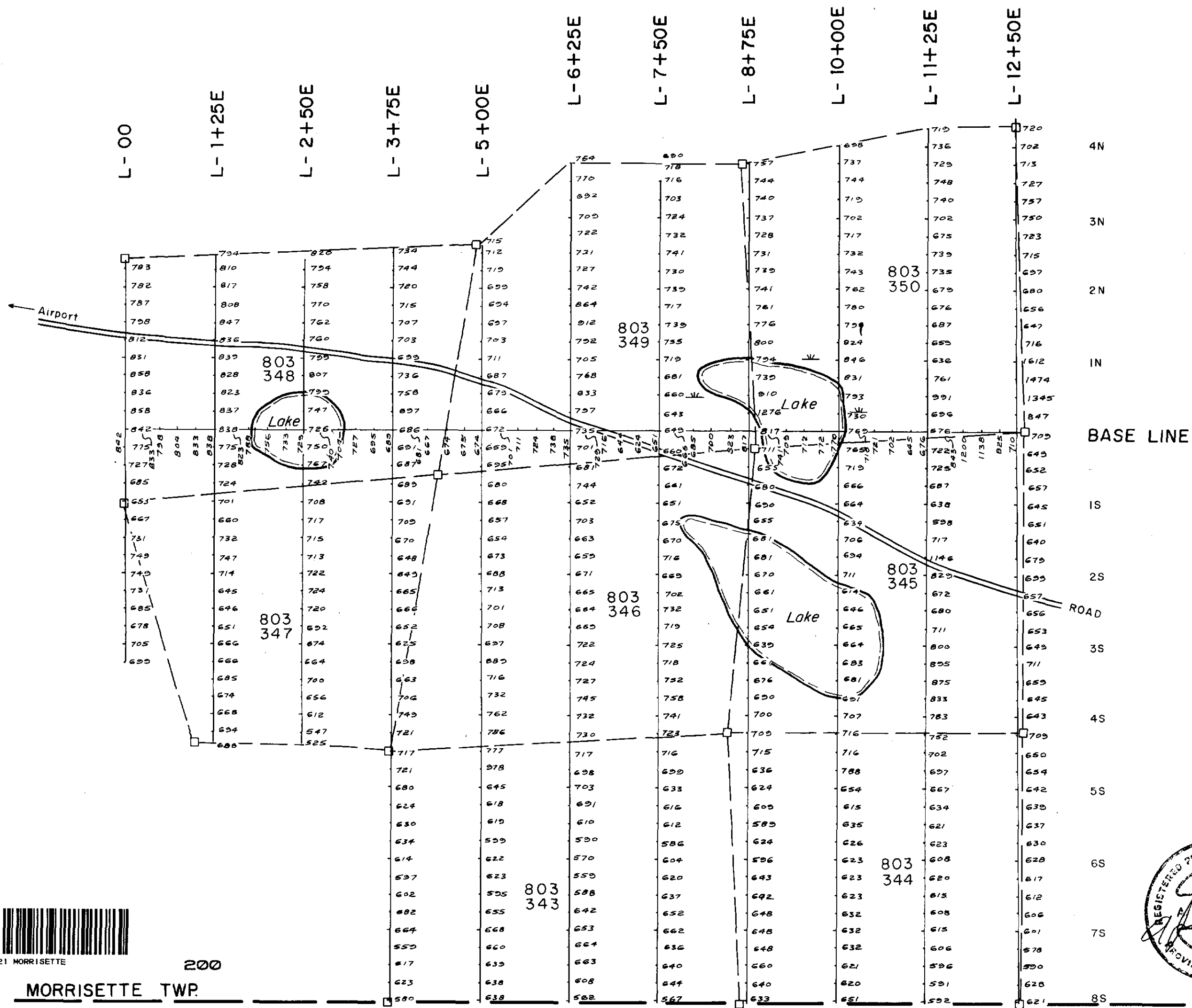
Yours sincerely,

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

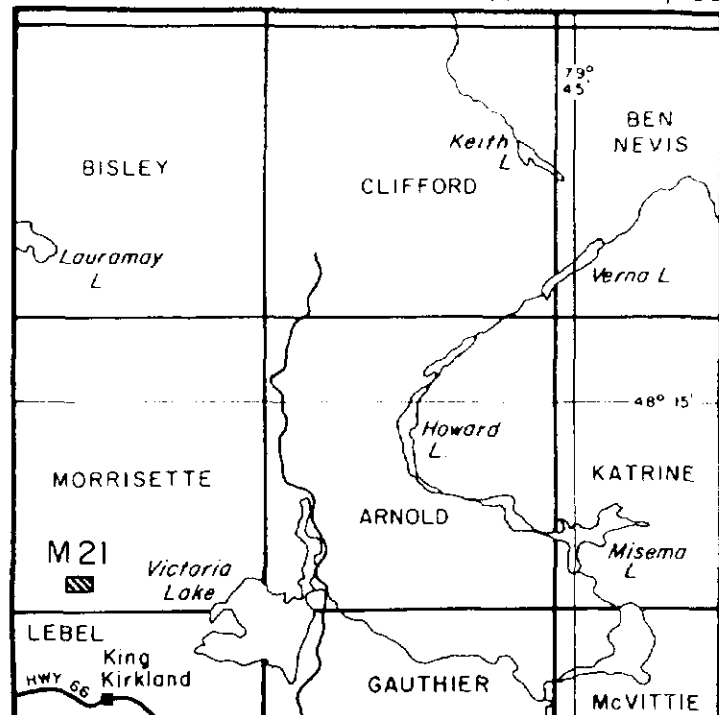
cc: Lac Minerals Ltd
Suite 2105, North Tower
P.O. Box 156
Royal Bank Plaza
Toronto, Ontario
M5J 2J4
Attention: Mrs. Denise McDermid



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MORRISETTE TWP.
LEBEL TWP

GRID LOCATION MAP SCALE 1:250,000

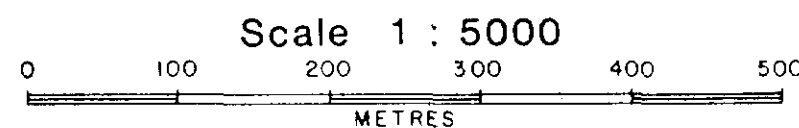


LEGEND

- Grid line with 25m stations... ————
- Located claim post and line... —□—
- Swamp, Creek, Lakeshore... ————
- Instrument.....EDA PPM-300
- Base station.....EDA PPM-400
- Values above base level of 58,000 gammas

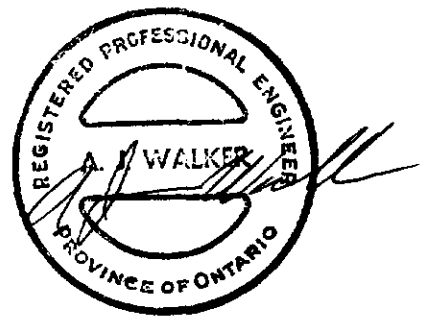
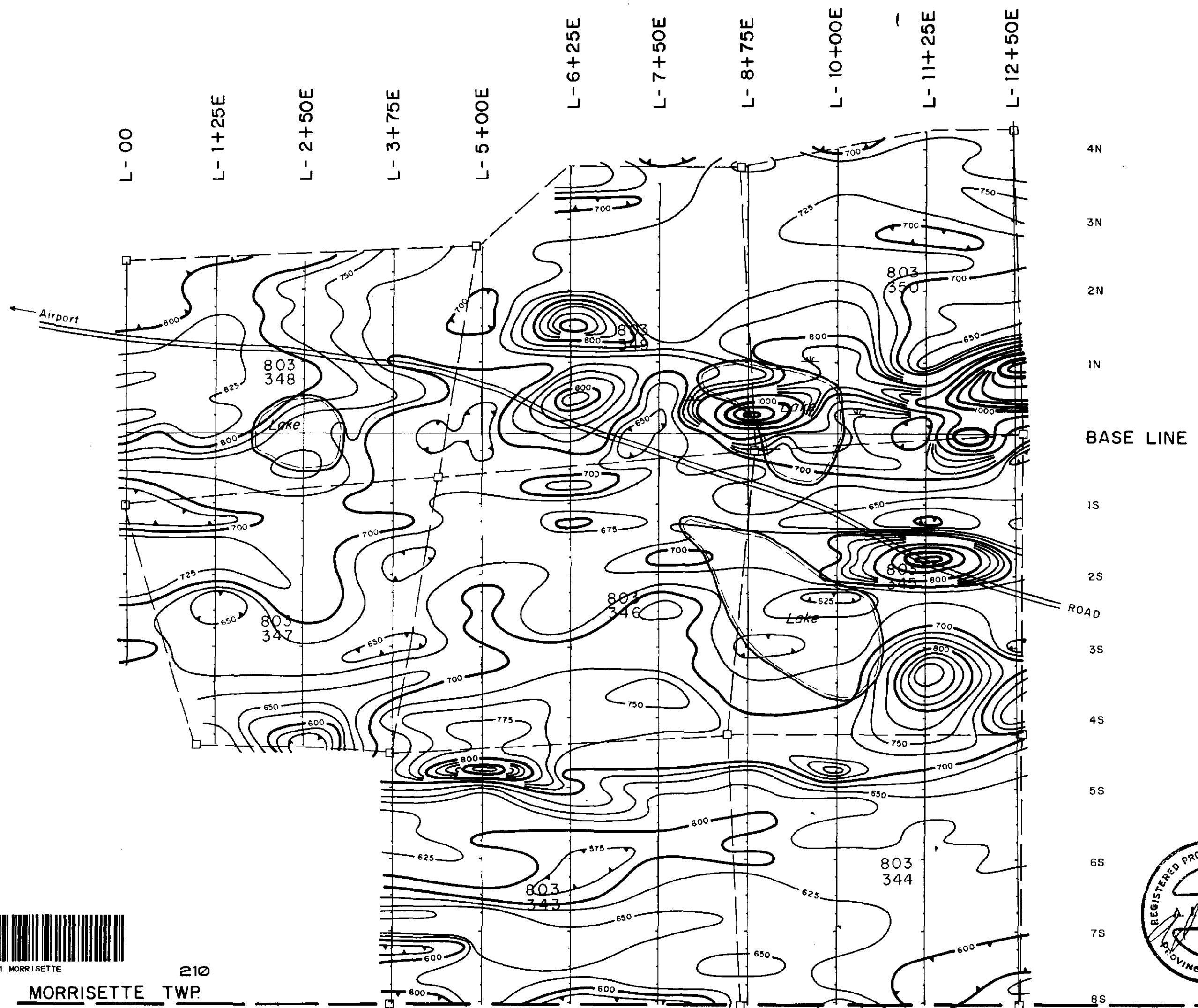
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GRID M21
MORRISETTE TOWNSHIP
Larder Lake M.D., Ontario
Magnetometer Survey
TOTAL FIELD
MAGNETIC READINGS



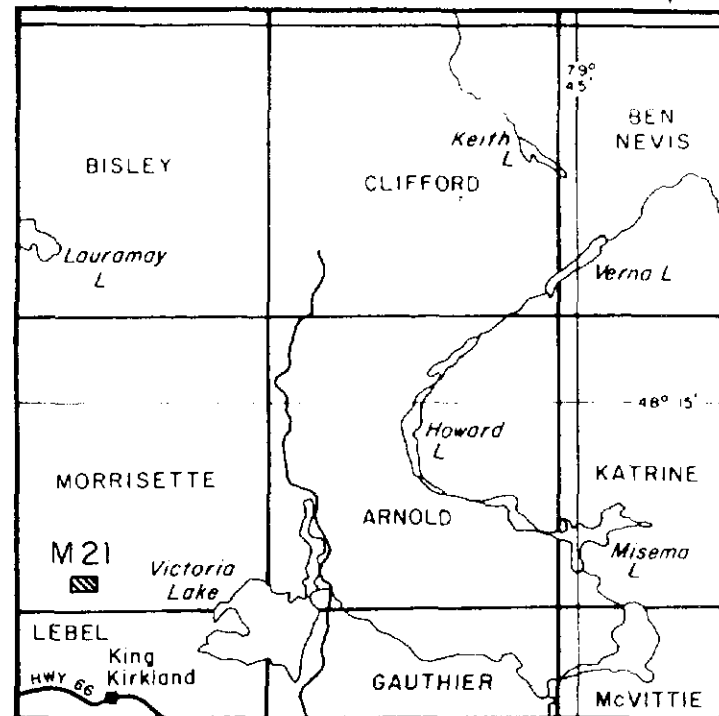
WALKER EXPLORATION LTD.
Survey Contractor
Mississauga, Ontario

April 1985



210
MORRISETTE TWP.
LEBEL TWP.

GRID LOCATION MAP SCALE 1:250,000

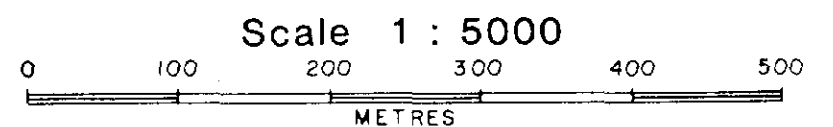


LEGEND

- Grid line with 25m stations
- Located claim post and line
- Swamp, Creek, Lakeshore
- Instrument.....EDA PPM-300
- Base station.....EDA PPM-400
- Values above base level of 58,000 gammas
- Contour interval.....25 gammas
- 25 gamma contour.....
- 100 gamma contour.....
- 500 gamma contour.....
- Depression.....

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GRID M21
MORRISETTE TOWNSHIP
Larder Lake M.D., Ontario
Magnetometer Survey
TOTAL FIELD
MAGNETIC CONTOURS



WALKER EXPLORATION LTD.
Survey Contractor
Mississauga, Ontario
April 1985