



32D04SW0319 2.5093 BOSTON

010

REPORT OF MAGNETIC SURVEY

MARSHALL CLAIMS

BOSTON TOWNSHIP

RECEIVED
SEP 30 1982
MINING LANDS SECTION

BY: MIKE LEAHY
SEPTEMBER 27, 1982.

INTRODUCTION

LOCATION + ACCESS

The property herein described consists of a group of leased and unpatented claims in north-central Boston township, Ontario. The claims are numbered as follows:

| | |
|-----------|----------|
| L- 579085 | L- 72990 |
| L- 598569 | L- 73002 |
| L- 598570 | L- 91027 |
| L- 636515 | |

The area covered is approximately 180 acres. Access may be gained via bush road leading north from The Adams Mine road east of Dane.

GEOLOGY

The Marshall claims are underlain by the syenites of the Lebel stock as well as highly altered meta-volcanics along the south boundary of the stock.

Rock types include various phases of syenite ranging from fine-grained to porphyritic in texture, pink to black in color and from acid to basic in composition. Along the southern boundary are injection gneisses, highly metamorphosed basic lavas and tuff. The area may be generally defined as the alteration halo surrounding the Lebel stock. The Long Lake fault bisects the group following the course of Boston creek in a roughly North-South direction. Displacement along the fault has been West-side South. No significant metallic mineralization has been found to date on the claims.

MAGNETIC SURVEY

In August and September of 1982 a control system of base and picket lines was cut over the survey area. Picket lines were cut perpendicular to the base line which had a bearing of W 7°-S. One mile of base line

and four miles of picket line were cut. Picket lines were cut at 400 foot intervals and stations were marked every 100 feet. Three hundred and three readings were taken at both 100 and 50 foot intervals.

The objective of the survey was to map possible iron formations which might be associated with base metal mineralization as is the case further downstream along Boston creek.

A Sharpe MF-1 fluxgate magnetometer was used to conduct the survey. Results were plotted on a map with a horizontal scale of 1" = 200'. Contours were drawn at 500 gamma intervals due to the very sharp gradients occurring all over the survey area.

RESULTS OF MAGNETIC SURVEY

The resulting map shows highs up to 10,000 gammas above 0 indicating rocks with magnetite concentrations of several percent. The rock tupe having the highest magnetite concentration appeared to be gneissic metabasalt with a coarse-grained crumbly texture. This rock type outcrips at several places along the base line. The pink fine-grained syenite appeared to contain the least magnetite and is believed to occupy the areas responding in the range of 0 to 1,000 gammas. Basic syenite and less altered metavolcanics are believed to underlie the areas of intermediate response. The close proximity of this area to the Boston Iron range is probably the cause of the unusually high magnetite concentrations found along the south boundary of the survey area. It is a possibility that heretofore undiscovered mineralization may be found in this area since it is bound on the North by the Lebel stock and on the South by the Boston Iron range which is known to contain significant base-metal mineralization.

CONCLUSIONS

The purpose of the survey was accomplished in that

areas of magnetite enrichment were located although they were found to be somewhat leaner than expected. A reading taken over Iron formation along the road south of the group gave a response of 45,000 gammas - several times higher than the highest reading within the survey area. No evidence of sulphide mineralization was observed in outcrop during the course of the survey.

RECOMMENDATIONS

It is recommended that both electromagnetic and geological surveys be conducted over the survey area. Complete spectrographic analyses should be done in order to investigate the possibility of rare earth minerals being present. Further work on the claims should be decided after analysis of the results of the above-mentioned recommendations.

Michael Leaky
Sept., 1982

Ontario
 Lands
 Admin
 July 25
 Magnetic



expenditures" section may be entered
 the "Expend. Days Cr." columns.
 not use shaded areas below. #280

Type of Survey(s) **Magnetic**

Claim Holder **Charles Marshall, St. Catharines, Ontario**

Survey Company **M. Leahy**

Survey Dates (linecutting to office)
 20 08 82 | 31 08 82
 Day | Mo. | Yr. | Day | Mo. | Yr.

Total Miles of line Cut **2.3**

Name and Address of Author (of Geo-Technical report)
Michael Leahy 24 Dixon Ave. Kirkland Lake Ont.

Special Provisions Credits Requested

Mining Claims Traversed (List in numerical sequence)

900
 Boston Twp.
 Inspector's Licence No. **K-15629**

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

| Mining Claim | | | Mining Claim | | |
|--------------|--------|------------------|--------------|--------|------------------|
| Prefix | Number | Expend. Days Cr. | Prefix | Number | Expend. Days Cr. |
| L | 598569 | 40 | | | |
| | 598570 | 40 | | | |

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MINING LANDS SECTION

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

| Instructions | Days per Claim |
|--|-----------------|
| Note: Special provisions credits do not apply to Airborne Surveys. | 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.

Report Completed

Date of Report **Aug 31 / 82**

Recorded Holder or Agent (Signature) **Michael Leahy**

LARDER LAKE MINING DISTRICT

RECEIVED

AUG 31 1982

AM 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 PM

Total number of mining claims covered by this report of work. **2**

For Office Use Only

Total Days Cr. Recorded **40**

Date Recorded **AUG 31 1982**

Date Approved as Recorded **83.06.21**

Mining Recorder **S. M.**

Regional Branch Director **[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
Michael LEAHY 24 Dixon Ave. Kirkland Lake Ont.

Date Certified **Aug 31 / 82**

Certified by (Signature) **Michael Leahy**

Jan 14/83

Mining Lands Comments

~~- map not signed~~
~~- no key map dam map~~
~~- no legend~~

To: Geophysics

Mr Barlow

Comments

Approved Wish to see again with corrections

Date May 11/83

Signature [Signature]

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

LD

Approved Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

1982 10 22

2.5093

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
(Magnetometer) Survey submitted under Special
Provisions (credit for Performance and Coverage) on
Mining Claims L 579085 et al in the Township of Boston.

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

DW:sc

cc: Mr. Michael Leahy
Kirkland Lake, Ontario

cc: Mr. Charles Marshall
St. Catharines, Ontario

BOSTON

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

NOTES

400' Surface Rights Reservation
shores of all Lakes and Rivers

AREAS WITHDRAWN FROM STAKING

| Sec | Order No. | Date | Disp'n | File |
|---------------|-----------|---------|--------|-------|
| 43 (R30 1970) | | 18/4/73 | M.R. | 58998 |
| 43 (R 1971) | NRW 36/79 | 30/5/79 | S.R. | 47935 |

SAND and GRAVEL

GRAVEL FILE 27683 & 147035

DATE OF ISSUE
JUN 16 1983
Ministry of Natural Resources
TORONTO

PLAN NO.-M-332

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Otto Twp. M.379

McElroy Twp. M.366

Pacaud Twp. M.380



