



32D04SW0118 2.13846 MCELROY

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2.13846

REPORT ON

GEOLOGICAL SURVEY

MCELROY TOWNSHIP, ONTARIO

BY

R.A. MACGREGOR, P. ENG.

December 10, 1990

RECEIVED

JAN 15 1991

MINING LANDS SECTION

INTRODUCTION

A geological survey was carried out on 9 claims in McElroy Township during 1990.

LOCATION ACCESS AND OWNERSHIP

The property is located in the central part of McElroy Township, Larder Lake Mining Division, District of Temiskaming, Ontario. The claims are numbered L857996 to 857999 inclusive, L894250 to 894252 inclusive, L894254 and L1136757. They are recorded in the name of R.A. MacGregor, 28 Ford Street, Sault Ste. Marie, Ontario and Skead Holdings Ltd., c/o Box 1110, Sault Ste. Marie, Ontario.

Access to the property is by logging and forest access roads which lead from Highway 624 about 8 miles south of Larder Lake, Ontario. These roads extend to within $\frac{1}{2}$ mile of the property.

PREVIOUS EXPLORATION

Previous exploration has consisted of a few pits, some short diamond drill holes and geophysical surveys. Most of this work was carried out in the 1950's and 1960's.

SURVEY PROCEDURE

The boundaries of the surveyed claims were cut out with chain saw and picketed. Survey pins were relocated. In addition a grid with a baseline at approximately 310 degrees and crosslines at 400 foot intervals was established over part of the property. Lines were chained and picketed. These lines were then traversed, and intervening parts by pace and compass. Rock outcrop and rock types were noted. Some samples were taken for future analysis.

GEOLOGY

The property is underlain by a volcanic to sedimentary sequence of rocks of the Larder Lake group. Ultramafic to mafic volcanics or intrusives underlie most of the claims. Along the north part of the claims are volcanoclastic to sedimentary rocks. The extreme northern part is underlain by the south edge of the McElroy syenite stock. The ultramafic to mafic sequence consists of gabbro to serpentized gabbro and peridotite. The northerly sequence consists of fine to medium grained greywackes with volcanoclastic conglomerates or debris flows. The matrix and clasts of which are ultramafic material similar to the ultramafic volcanics further south. Near the contact with the McElroy stock it contains stringers and inclusions of reddish feldspars.

The McElroy stock consists of syenite and diorite with intrusive breccia near the contact. There is a massive to semi massive sulphide showing near the boundary between claims L857997 and L857998 at the north end. Nickel and copper assays are reported from this showing.

RESULTS AND CONCLUSIONS

The claims are underlain by a largely ultramafic sequence with some sediments along the south margin of the McElroy Stock. A nickel-copper showing has been located near the contact with the McElroy stock. Geophysical surveying is indicated to check for nickel sulphide deposits.

Respectfully submitted



Robert A. MacGregor, P. Eng.

December 10, 1990

CERTIFICATE

I, Robert A. MacGregor, Certify:

1. I am a Mining Engineer residing at 28 Ford Street, Sault Ste. Marie, Ontario. I have worked as a mining engineer and geologist for the past 20 years.
2. I am a member of the Association of Professional Engineers of the Province of Ontario and a member of the Canadian Institute of Mining and Metallurgy.
3. I attended Queen's University for two years in the Mining Geology course.
4. I am the recorded holder of the mining claims in this report and have personal knowledge of the work performed.

Dec 10/90

Date

A circular seal for a Registered Professional Engineer in the Province of Ontario. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER" around the top and "PROVINCE OF ONTARIO" around the bottom. In the center, there is a signature that appears to be "R. A. MacGregor".
Robert A. MacGregor

URGENT!
W 9008.006



900

#673
2.18
Report of Work
(Geophysical, Geological and Geochem)

Mining Act

| | | |
|--|---------------------------------------|--|
| Type of Survey(s) Geological | Mining Division Larder Lake | Township or Area McElroy Township |
| Recorded Holder(s) R.A. MacGregor | 2.13840 | Prospector's Licence No. K-15070 |
| Address 28 Ford Street, SAULT STE. MARIE, Ontario P6A 4N4 | | Telephone No. 949-5928 |
| Survey Company Colex Exploration Inc. | | |
| Name and Address of Author (of Geo-Technical Report) R.A. MacGregor, 28 Ford St., Sault Ste. Marie, Ont. | | Date of Survey (from & to) 01.09.90 10.11.90 |

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

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

| Airborne Credits | Days per Claim | |
|---|-----------------|--|
| Note: Special provisions credits do not apply to Airborne Surveys | Electromagnetic | |
| | Magnetometer | |
| | Other | |

| Mining Claim | | Mining Claim | | Mining Claim | |
|--------------|---------------|--------------|--------|--------------|--------|
| Prefix | Number | Prefix | Number | Prefix | Number |
| L | 857996 | | | | |
| | 857997 | | | | |
| | 857998 | | | | |
| | 857999 | | | | |
| | 894250 | | | | |
| | 894251 | | | | |
| | 894252 | | | | |
| | 894254 | | | | |

RECEIVED
DEC 10 1990
MINING LANDS SECTION

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

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true

Name and Address of Person Certifying
R.A. MacGregor, 28 Ford St., Sault Ste. Marie, Ontario P6A 4N4

Telephone No. **705-949-5928** Date **Nov. 14/90** Certified By (Signature)

For Office Use Only

| | | |
|---------------------------------------|--|---------------------------------------|
| Total Days Cr. Recorded 320 | Date Recorded Nov 15/90 | Mining Recorder <i>[Signature]</i> |
| | Date Approved as Recorded *SEE REVISED WORK STATEMENT* | Provincial Manager, Mining Lands |

Received Stamp
LARDER LAKE MINING DIVISION
NOV 15 1990
TIME 9:00am

M.L.

DOCUMENT No. W 9008-00729

- Instructions
- Please type or print.
 - Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
 - If number of mining claims traversed exceeds space on this form, attach a list.
 - Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Report of Work (Geophysical, Geological and Geochemical Surveys)

1. Name of Survey(s): Geological

2. Mining Division: Larder Lake Township or Area: McElroy

3. Recorded Holder(s): Skead Holdings Ltd Prospector's Licence No.: 2.13846 7-1956

4. Address: 1/2 Box 1110 Sault Ste Marie Ont Telephone No.: 949-5928

5. Surveying Company: Colex Exploration Inc

6. Name and Address of Author (of Geo-Technical Report): RA Mac Gregor 28 Ford St Sault Ste Marie Date of Survey (from & to): Dec 9, 90 10 11 90

Special Provisions Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

| Special Provisions | Geophysical | Days per Claim |
|---|--|----------------|
| 1. For first survey: Enter 40 days (This includes line cutting) | - Electromagnetic - Magnetometer - Other | |
| 2. For each additional survey using the same grid: Enter 20 days (for each) | Geological Geochemical | <u>40</u> |

| Mining Claim | | Mining Claim | | Mining Claim | |
|-----------------------------|----------------|--------------|--------|--------------|--------|
| Prefix | Number | Prefix | Number | Prefix | Number |
| <u>L</u> | <u>1136757</u> | | | | |
| RECEIVED | | | | | |
| FEB 04 1991 | | | | | |
| MINING LANDS SECTION | | | | | |

7. Total miles flown over claim(s): Dec 10/90

8. Signature of Recorder Holder or Agent (Signature): [Signature]

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

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

9. Name and Address of Person Certifying: RA Mac Gregor 28 Ford St Sault Ste Marie

Telephone No.: 949-5928 Date: Dec 10/90 Certified By (Signature): [Signature]

10. Office Use Only

11. Date Recorded: Dec 13/90 Mining Recorder: [Signature]

12. Date Approved as Recorded: 70 Provincial Manager, Mining Lands: [Signature]

"SEE REVISED WORK STATEMENT"

Received Stamp: **RECEIVED**
LARDER LAKE MINING DIVISION
DEC 13 1990
TIME 11:05am



2.13846

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) GEOLOGICAL
Township or Area McElroy Township
Claim Holder(s) R.A. MacGregor
Skead Holdings Ltd.
Survey Company Colex Exploration Inc.
Author of Report R.A. MacGregor,
Address of Author P.O. Box 1110, Sault Ste. Marie, Ont.
Covering Dates of Survey 01/09/90 to 10/12/90
Total Miles of Line Cut 5.85 miles

MINING CLAIMS TRAVERSED
List numerically

Table with 2 columns: (prefix) and (number). Contains entries: 857996, 857997, 857998, 857999, 894250, 894251, 894252, 894254. Total Claims: 8

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS per claim

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

- Geophysical: Electromagnetic, Magnetometer, Radiometric, Other
Geological: 40
Geochemical

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Dec. 10/90 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. Qualifications 2.1102

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____
Station interval _____ Line spacing _____
Profile scale _____
Contour interval _____

MAGNETIC

Instrument _____
Accuracy – Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

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 _____

Mining Lands Section
 MINISTRY OF NORTHERN DEVELOPMENT
 AND MINES
 159 Cedar Street
 SUDBURY, Ontario P3E 6A5

Areas Shaded in blue for "Account Customers" Les espaces ombrés bleus sont à l'usage des clients titulaires d'un compte

Account No. N° de compte Telephone No. N° de téléphone

Sender's name and address Nom et adresse de l'expéditeur

R A HOGG GREGOR

316 WELLINGTON S. W.

SALT STE MARIE

Postal Code Postal

ONT

P6A1J1

Bill of Lading

Connaissance

TO A

Telephone No. N° de téléphone

MINING LANDS SECTION

M. NORTHERN DEVELOPMENT

159 CEDAR ST

+ MINES

SUDBURY

Postal Code Postal

ONT

P3E6A5



EE 008344599 CA

COURIER MESSAGERIES



EE 008 344 599 CA

- This Bill of Lading is subject to audit
- Do not mail dangerous goods
- If sender selects "signature not required" option, insurance against loss and damage is waived.

- Ce connaissance est sujet à vérification
- Ne pas poster de matières dangereuses
- Si l'expéditeur opte pour "signature non requise" il renonce au droit de recevoir un remboursement en cas de perte et de dommage.

Sender's signature

Signature de l'expéditeur

[Handwritten Signature]



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
4th Floor, 159 Cedar Street
Sudbury, Ontario
P3E 6A5

Telephone: (705) 670-7264
Fax: (705) 670-7262

Your File: W. 9008.673, 729
Our File: 2.13846

May 9, 1991

Mining Recorder
Ministry of Northern Development
and Mines
4 Government Road East
KIRKLAND LAKE, Ontario
P4N 1A2

Dear Sir/Madam:

RE: Notice of Intent dated April 9, 1991 for Geological
Survey on mining claims L. 857996 et al. in the Township
of McElroy.

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,

Ron. C. Gashinski,
Provincial Manager, Mining Lands
Mines & Minerals Division

ONTARIO GEOLOGICAL SURVEY
GIS - ASSESSMENT FILES

MAY 28 1991

RECEIVED

LJ/jl

cc: Mr. R. A. MacGregor
Sault Ste. Marie, Ontario

Resident Geologist
Kirkland Lake, Ontario

✓ Assessment Files Office
Toronto, Ontario

Recorded Holder
 R.A. MacGregor

Township or Area
 McElroy Township

| Type of survey and number of Assessment days credit per claim | Mining Claims Assessed |
|--|---|
| Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days | L.857996 - 999 incl. 894250 - 252 incl. 894254 1136757 |
| Section 77 (19) See "Mining Claims Assessed" column | |
| Geological 23.8 _____ days | |
| Geochemical _____ days | |
| Men days <input type="checkbox"/> Airborne <input type="checkbox"/> | |
| Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> | |
| <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. | |
| <input type="checkbox"/> 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; Geological - 40; Geochemical - 40; Section 77(19) - 60.

REFERENCES

AS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY

S.O. - SURFACE RIGHTS ONLY

M.S. - MINING AND SURFACE RIGHTS

Order No. Date Disposition File

MINING RIGHTS WITHDRAWN FROM STAKING

ORDER NO. W. 18/86

NR OPENS W/18/86

SAND AND GRAVEL

M.N.R. GRAVEL File 179165

GRAVEL PIT File 113703

M.N.R. GRAVEL File 160982

* APPLICATION FOR SURFACE RIGHTS PARTS UNDER PUBLIC LANDS ACT.

TOWNSHIP SUBJECT TO FORESTRY OPERATIONS

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

"NOTICE OF FORESTRY ACTIVITY"
THIS TOWNSHIP / AREA FALLS WITHIN THE TIMISKAMING MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE M.N.R. UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129

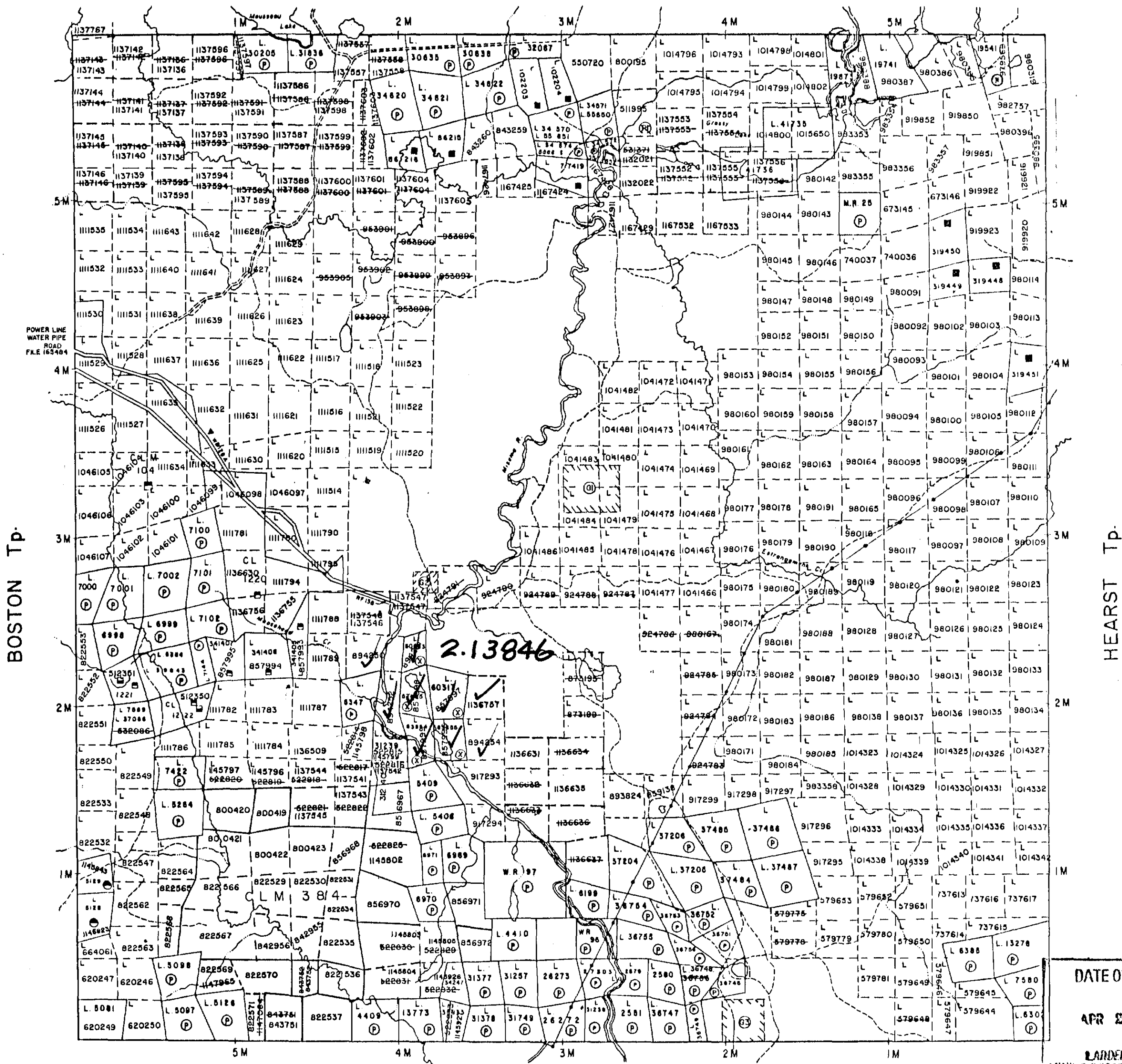
SWASTIKA, ONT.
POK 170
705-642-3222



32D45V0118 2.13846 MCELROY

200

GAUTHIER Tp.



CATHARINE Tp.

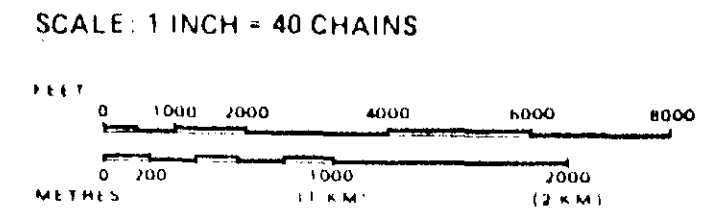
LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC
- LOTS, MINING CLAIMS, PARCELS, ETC
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

| TYPE OF DOCUMENT | SYMBOL |
|---------------------------------|--------|
| PATENT, SURFACE & MINING RIGHTS | |
| " SURFACE RIGHTS ONLY | |
| " MINING RIGHTS ONLY | |
| LEASE, SURFACE & MINING RIGHTS | |
| " SURFACE RIGHTS ONLY | |
| " MINING RIGHTS ONLY | |
| LICENCE OF OCCUPATION | |
| ORDER IN COUNCIL | |
| RESERVATION | |
| CANCELLED | |
| SAND & GRAVEL | |

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 83 SUBSCL 1



TOWNSHIP
McELROY
M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE
MINING DIVISION
LARDER LAKE
LAND TITLES / REGISTRY DIVISION
TIMISKAMING

DATE OF ISSUE
APR 29 1991

LARDER LAKE
MINING RECORDER'S OFFICE

Ministry of Land Natural Resources Management Branch
Ontario

Date JANUARY, 1985
Number
G-3214

CIRCULATED FEB. 26, 1990

Geological Survey

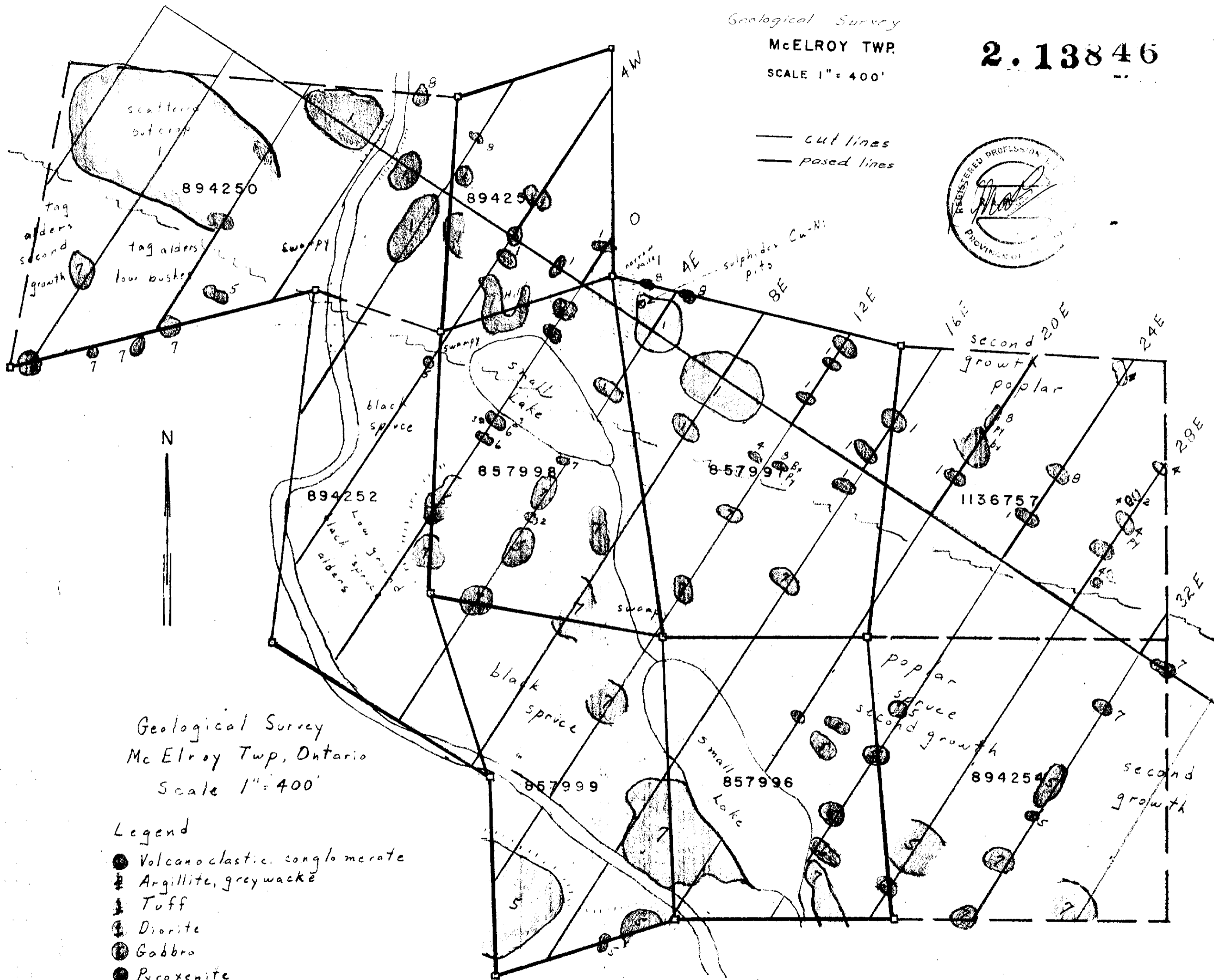
McELROY TWP.

SCALE 1" = 400'

2.13846



— cut lines
— posed lines



Geological Survey
Mc Elroy Twp, Ontario
Scale 1" = 400'

Legend

- Volcanoclastic conglomerate
- Argillite, greywacke
- ▲ Tuff
- ⊕ Diorite
- ⊙ Gabbro
- Pyroxenite
- ⊙ Serpentinized Peridotite
- ⊙ Syenite
- Py pyrite
- Bx Breccia

