



31M13NE0012 2.14265 SKEAD

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JUL 30 1991

MINING LANDS SECTION

VLF-EM SURVEY

SKEAD TOWNSHIP, ONTARIO

BY

R.A. MACGREGOR, P. ENG.

JULY 26, 1991

INTRODUCTION

A VLF-EM survey was carried out over cut lines in Skead Township during 1991.

LOCATION, ACCESS AND OWNERSHIP

The property is located in the north part of lots 4 and 5 Concession 4, Skead Township, Larder Lake Mining Division, Ontario. The claims are numbered L1146034 to 1146035, L1151503 and L115105 to 1151507 inclusive. They are recorded in the name of R.A. MacGregor, 28 Ford Street, Sault Ste. Marie, Ontario recently transferred from Lucien Lacasse, 214 George St., Dobie, Ontario.

Access to the property is by a bush road running south to St. Anthony Lake from Highway 624 about 8 miles south of Larder Lake, Ontario.

PREVIOUS EXPLORATION

There are no records of previous exploration on the claims, however numerous old pits and trenches attests to such work having been done. The work appears to be more that 50 years old.

SURVEY PROCEDURE

A baseline was cut along the north boundary of lots 4 and 5 Concession 4. Crosslines were cut south and 200-foot intervals from the baseline. Lines were chained and picketed every 100 feet.

A VLF-EM survey was run with a Crone Radem instrument set to the signal from Cutler, Maine (24.0 KHz). Readings were taken at 100-foot intervals along all lines. The looping method was used for control of variation.

DISCUSSION OF RESULTS

The VLF-EM survey shows a number of cross-overs which may warrant follow-up. The claims should also be covered by a magnetometer and geological survey to further assess the mineralization and structure on the property.

Respectfully submitted



R. A. MacGregor, P. Eng.

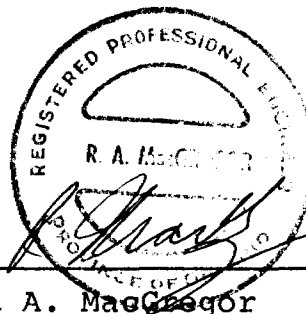
July 26, 1991

CERTIFICATE

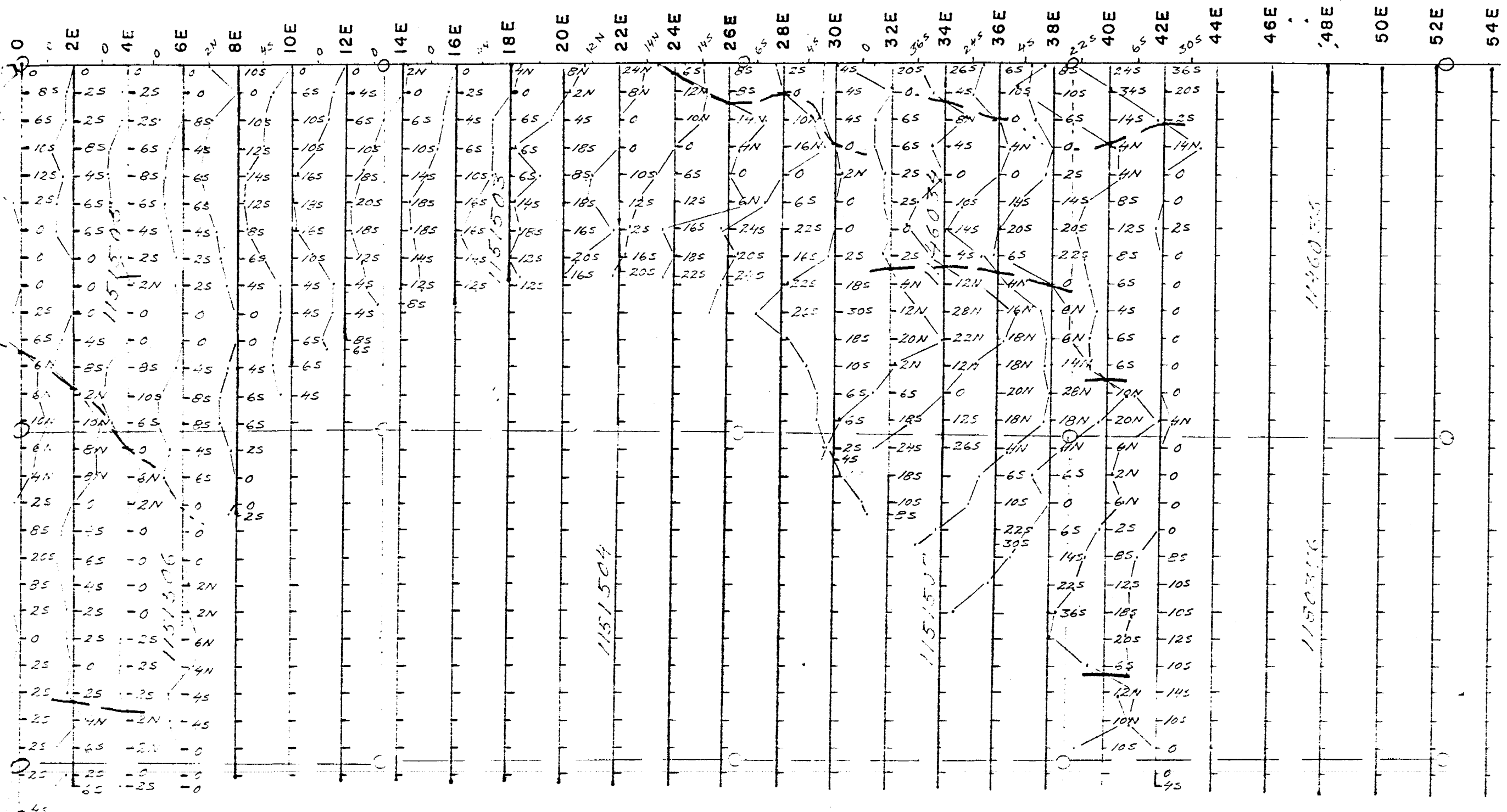
I, Robert A. MacGregor, Certify:

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.

July 26/91
Date



Robert A. MacGregor



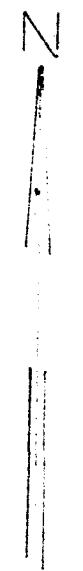
INSTRUMENT: CRONE RADEM
 STATION: CUTLER, MAINE (24.0 KHz)
 SCALE: 1" = 40'



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VLF-EM SURVEY
 SKEAD TWP.

SCALE 1" = 400'





31M13NE0012 2.14265 SKEAD

900

Report of Work
(Geophysical, Geological and Geochemic)

Mining Act

Type of Survey(s) VLF-EM	Mining Division Larder Lake	Township or Area Stead
Recorded Holder(s) Lucien Lacasse	Prospector's Licence No. K-18234	
Address 214 George St. Dobic Ont, POK 1B0	Telephone No. 568-8941	
Survey Company Self		
Name and Address of Author (of Geo-Technical Report) K. A. MacGregor 28 Ford St. South Ste Marie P6A 4N4 Ont.	Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. 5 91 31 5 91	

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	40
	- Magnetometer	
For each additional survey using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	40
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys	Electromagnetic	Days per Claim
	Magnetometer	
	Other	

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
2	1146034				
	1146035				
	1151503				
	1151505				
	1151506				
	1151507				

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MINING LANDS DIVISION

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

6

Total miles flown over claim(s):

Date **May 31/91** Recorded Holder or Agent (Signature) *Lucien Lacasse*

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
Lucien Lacasse 214 George Dobic Ont

Telephone No. **568-8941** Date **May 31/91** Certified By (Signature) *Lucien Lacasse*

For Office Use Only

Total Days Cr. Recorded 240	Date Recorded May 31/91	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded	Provincial Manager, Mining Lands <i>[Signature]</i>

'SEE REVISED WORK STATEMENT'

RECEIVED

JUL 31 PM 3 51



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Geoscience Approvals Section
159 Cedar Street, 4th Floor
Sudbury, Ontario
P3E 6A5

Toll Free: 1-800-465-3880
Telephone: (705) 670-7264
Fax: (705) 670-7262

November 1, 1991

Your File: W. 9180.00260
Our File: 2.14265

Mining Recorder
Ministry of Northern Development
and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir/Madam:

Re: Notice of Intent dated October 1, 1991 for Geophysical
(Electromagnetic) Survey on mining claims L.1146034 et al.
in the Township of Skead.

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,

A handwritten signature in cursive script, appearing to read "Ron C. Gashinski".

Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

LJ /jl

cc: Mr. Lucien Lacasse
Dobie, Ontario

Resident Geologist
Kirkland Lake, Ontario

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

✓ Assessment Files Office
Toronto, Ontario



Recorded Holder
Lucien Lacasse

Ownership or Area
Skead Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>32</u> days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days	L.1146034-035 L.1151503 L.1151505-507 incl.
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input checked="" 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.



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) VLF-EM
Township or Area Skead Township
Claim Holder(s) R.A. MacGregor
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 01/05/91 to 26/07/91
(linecutting to office)
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

L1146034
.....
1146035 (prefix) (number)
.....
1151503
.....
1151505
.....
1151506
.....
1151507
.....

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 40
--Magnetometer _____
--Radiometric _____
--Other _____
Geological _____
Geochemical _____

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

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

DATE: July 26, 1991 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder
.....
.....
.....
.....
.....
.....
.....
.....

TOTAL CLAIMS 6

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 394 Number of Readings 394
Station interval 100 feet Line spacing 400 feet
Profile scale 1" = 40'
Contour interval _____

MAGNETIC

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

ELECTROMAGNETIC

Instrument Crone Radem
Coil configuration N/A
Coil separation N/A
Accuracy ± 1/2°
Method: Fixed transmitter Shoot back In line Parallel line
Frequency Cutler, Maine (24.0 KHz)
Parameters measured Dip angle of the resultant field
(specify V.L.F. station)

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 _____

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

LAND AND GRAVEL
G. MTC PIT NO.230

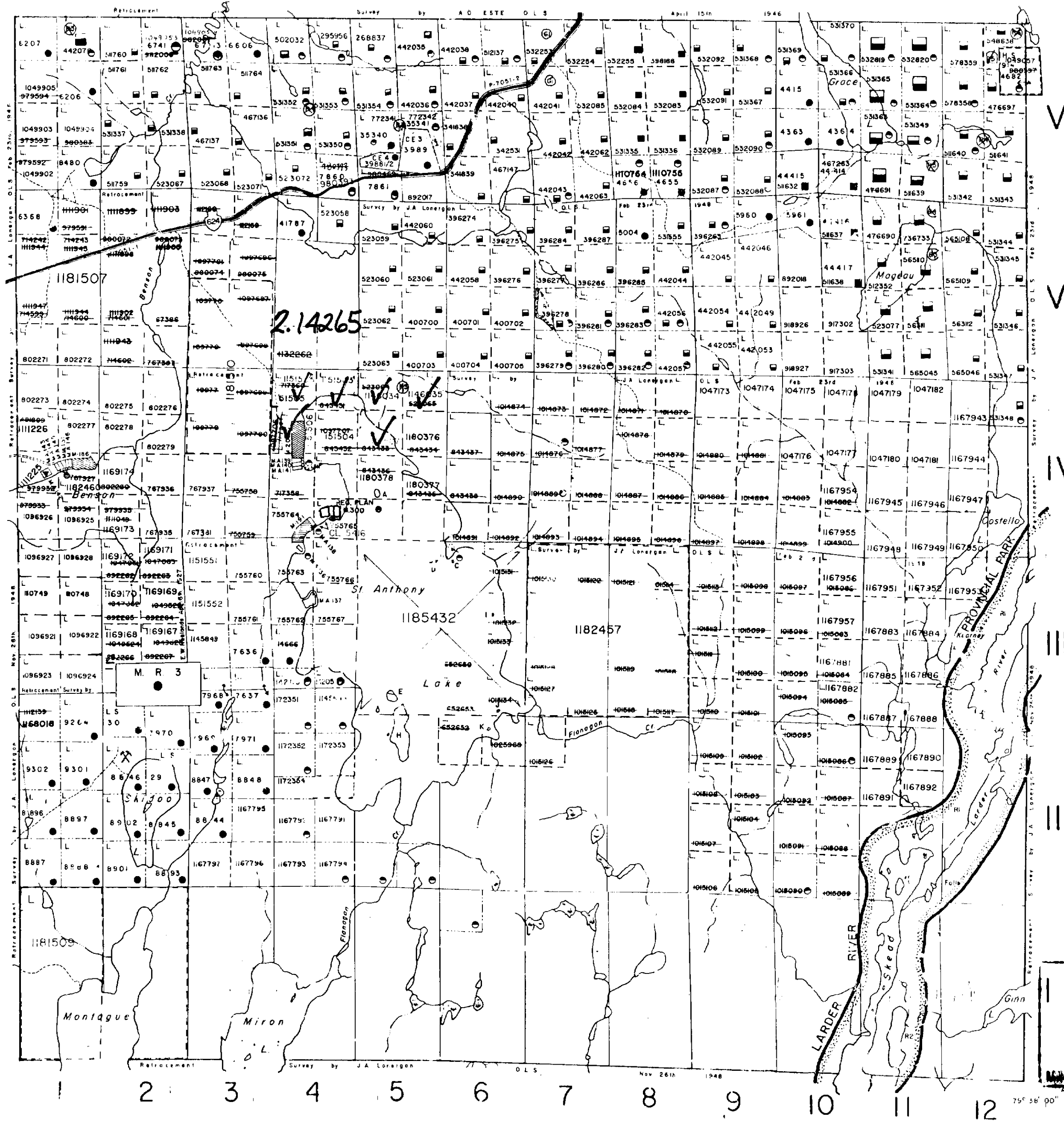
F 163 APPLICATION UNDER PUBLIC LANDS ACT

AREAS WITHDRAWN FROM STAKING

- (R¹) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W-63-83
- (R²) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W-6-85
- (R³) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W-7-86
PART OF R3 REOPENED BY ORDER O-19/88 NOV 30/88
PART OF R3 REOPENED BY ORDER NO. O-L10/89 NR
PART OF R3 REOPENED BY ORDER O-L11-89 NR
- (R⁴) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W-8-86
PART OF R4 REOPENED BY ORDER O-19/88L NOV 30/88
PART OF R4 REOPENED BY ORDER O-20/88L NOV 30/88
- (R⁵) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W-9-86
Part of R5 re-opened O34/86, O33/86, O12/87
PART OF R5 REOPENED BY O 27 86 NR MAR 30, 1988
- (R⁶) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W-72-87
PART OF R6 REOPENED BY O-17/88L NOV 30/88

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 CON-

CATHARINE TP. M.336



HEARST TP. M.354

BAYLY TP. M.323

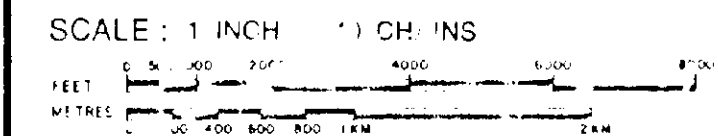
RATTAY TP. M.384

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASF 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
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

DISPOSITION OF CROWN LANDS

- | TYPE OF DOCUMENT | SYMBOL |
|---------------------------------|--------|
| PATENT, SURFACE & MINING RIGHTS | |
| SURFACE RIGHTS ONLY | |
| MINING RIGHTS ONLY | |
| LEASED SURFACE & MINING RIGHTS | |
| SURFACE RIGHTS ONLY | |
| MINING RIGHTS ONLY | |
| LICENCE OF OCCUPATION | |
| CROWN LAND SALE | |
| ORDER-IN-COUNCIL | |
| RESERVATION | |
| CANCELLED | |
| SAND & GRAVEL | |



ACRES	HECTARES
40	16

TOWNSHIP
SKEAD
DISTRICT

DATE OF ISSUE
406 26 1988
LARDER LAKE
MINING RECORDERS OFFICE

TIMISKAMING
MINING DIVISION
LARDER LAKE
Ministry of Natural Resources

Ontario Surveys and Mapping Branch
Date 10/4/74 Plan No.
Whitney Block
Owen's Park, Toronto
M.387

