



32D04SW0117 2.13819 MCELROY

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JAN 03 1991

MINING LANDS SECTION

**2.13819**

VLF-EM SURVEY

MCELROY TOWNSHIP, ONTARIO

by

R.A. MacGregor, P. Eng. *Qual 2.1102*

December 21, 1990

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JAN 03 1991

MINING LANDS SECTION

## I. INTRODUCTION

A VLF-EM survey was carried out over cut lines during the summer, 1990.

## II. LOCATION, ACCESS AND OWNERSHIP

The property is located in the west central part of McElroy Township. There are 16 claims numbered L1111780 to 1111790; L1111794 to 1111795; L1136755 to 1136756; all inclusive and L1136630. The claims are recorded in the name of R.A. MacGregor, 28 Ford Street, Sault Ste. Marie and Skead Holdings Ltd., c/o Box 1110, Sault Ste. Marie, Ontario.

Access to the property is by way of roads built by Adams Mine for Access to their tailing control dams and pumphouse. Adams Mine is accessible by paved Highway 650 which connects with Highway 112 at Dane about 7 miles south of Kirkland Lake, Ontario.

## PREVIOUS EXPLORATION

The area has been prospected intermittently for many years. There are old pits for which few records exist. More recently geophysical surveys and limited diamond drilling have been carried out. Showings of molybdenite and gold have been investigated.

## TOPOGRAPHY

The property is covered by a mixture of outcrop and swampy or low ground. Adams Mine tailings decant area covers parts of the northerly claims. Steep banks exist along parts of Mousseau Creek. The area has been cut over and is covered by poplar with thick underbrush.

## SURVEY PROCEDURE

Existing cut lines which mark the boundaries of survey claims were used as baselines from which lines were run south and north by pace and compass on the south block of claims. On the northerly claim, an existing grid which is overgrown was used as rough control for lines run by pace and compass.

### Survey Procedure (Continued)

VLF-EM survey was run with a Phoenix VLF-2 instrument set to the signal from Cutler, Maine (24.0 KHz). Readings were taken at 100-foot intervals along all the lines, using the procedure outlined in Appendix I. The looping method was used for control of variation.

### VI. DISCUSSION OF RESULTS

There are a few weak cross-overs on the south group which may be topographic effects.

On the northerly block contains a number of anomalies which warrant further checking. Some are close to power or pipe lines but do not follow them exactly. The cross-over in the north-west part may be a graphitic horizon or shear zone. It should be trenched and sampled.

Respectfully submitted



R.A. MacGregor, P. Eng.

December 21, 1990

C E R T I F I C A T E

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 personally have knowledge of the field work covered by this report.

Dec 21/90  
Date





Ontario



32D04SW0117 2.13819 MCELROY

900

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. 9008.00626  
Our File: 2.13819

April 15, 1991

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 March 15, 1991 for Geophysical  
(Electromagnetic) Survey on mining claims S.1111780  
et al. in McElroy Township.

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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

DM/jl

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

Resident Geologist  
Kirkland Lake, Ontario

Assessed Holder R.A. MacGregor/Skead Holdings

Location or Area McElroy Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L.1111780 to 790 incl. 1111794 - 795
Electromagnetic _____ 20 _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Geological _____ days	
Geochemical _____ days	
<input type="checkbox"/> _____ days _____ days	
Special provision <input checked="" type="checkbox"/> _____ days _____ days	
<input type="checkbox"/> Credits have been reduced because of partial work dates and figures of applicant. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (18) for the following mining claims

15 days Electromagnetic L. 1136630, 1136755  
 5 days Electromagnetic L.1136756

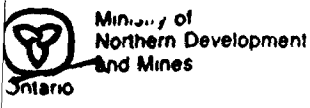
No credits have been allowed for the following mining claims

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(18) - 80.

M.L.

~~Nov 29~~  
Dec 28



DOCUMENT NO.  
W9008-00626

Instructions  
- Please type or print  
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type  
- 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.

**Mining Act**  
Report of Work **2.13819**  
(Geophysical, Geological and Geochemical Surveys)

Type of Survey(s) <b>Electromagnetic</b>	Mining Division <b>Larder Lake</b>	Township or Area <b>McElroy Township</b>
Recorded Holder(s) <b>R.A. MacGregor / Skead Holdings Ltd.</b>	Prospector's Licence No <b>2.13819 K15070/T1956</b>	
Address <b>28 Ford Street, SAULT STE. MARIE, Ontario P6A 4N4</b>		Telephone No <b>949-5928</b>
Survey Company <b>Colex Exploration Inc.</b>		
Name and Address of Author (of Geo-Technical Report) <b>R.A. MacGregor, 28 Ford St., Sault Ste. Marie, Ont.</b>		Date of Survey (from & to) Day: 9, Mo: 9, Yr: 1990 Day: 10, Mo: 10, Yr: 1990

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	<b>20</b>
	- Magnetometer	
	- 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 totals here	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys	- Electromagnetic	
	- Magnetometer	
	- Other	
Total miles flown over claim(s)		
Date <b>Oct. 29/90</b>	Recorded Holder or Agent (Signature) <i>[Signature]</i>	

Mining Claims Traversed (List in numerical sequence)					
Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
<b>L</b>	<b>1111780</b>				
	<b>1111781</b>				
	<b>1111782</b>				
	<b>1111783</b>				
	<b>1111784</b>				
	<b>1111785</b>				
	<b>1111786</b>				
	<b>1111787</b>				
	<b>1111788</b>				
	<b>1111789</b>				
	<b>1111790</b>				
	<b>1111794</b>				
	<b>1111795</b>				
	<b>1136630</b>				
	<b>1136755</b>				
	<b>1136756</b>				
				Total number of mining claims covered by this report of work.	<b>16</b>

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NOV 26 1990

MINING LANDS SECTION

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 **Oct. 22/90** Certified by (Signature) *[Signature]*

**For Office Use Only**

Total Days Cr Recorded <b>320</b>	Date Recorded <b>Oct 29 1990</b>	Mining Recorder <i>[Signature]</i>
Date Approved as Recorded <b>SEE REVISED WORK STATEMENT</b>		Provincial Manager, Mining Lands <i>[Signature]</i>

RECEIVED  
LARDER LAKE  
MINING DIVISION  
OCT 29 1990  
TIME 10:42 am



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 McElroy Township  
Claim Holder(s) Skoad Holdings Ltd.  
R.A. MacGregor  
Survey Company Colex Exploration Inc.  
Author of Report R.A. MacGregor,  
Address of Author c/o P.O. Box 1110, Sault Ste. Marie, Ont.  
Covering Dates of Survey 01/09/90 to 21/12/90  
(linecutting to office)  
Total Miles of Line Cut \_\_\_\_\_

**MINING CLAIMS TRAVERSED**  
List numerically

1111780	(prefix)	(number)
1111781		
1111782		
1111783		
1111784		
1111785		
1111786		
1111787		
1111788		
1111789		
1111790		
1111794		
1111795		
1136530		
1136755		
1136756		
TOTAL CLAIMS <u>16</u>		

If space insufficient, attach list

**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	<u>20</u>
-Magnetometer	_____
-Radiometric	_____
-Other	_____
Geological	_____
Geochemical	_____

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Dec. 21/90 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.1102

**Previous Surveys**

File No.	Type	Date	Claim Holder

OFFICE USE ONLY



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 **100 feet** Line spacing **100 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 **Phoenix VLF-2**

Coil configuration **N/A**

Coil separation **N/A**

Accuracy **± 4°**

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency **Cutler, Maine (24.0 KHz)**

(specify V.L.F. station)

Parameters measured **Dip angle of the resultant field**

GRAVITY

Instrument \_\_\_\_\_

Scale constant \_\_\_\_\_

Corrections made \_\_\_\_\_

Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

Instrument \_\_\_\_\_

Method  Time Domain  Frequency Domain

Parameters – On time \_\_\_\_\_ Frequency \_\_\_\_\_

– Off time \_\_\_\_\_ Range \_\_\_\_\_

– Delay time \_\_\_\_\_

– Integration time \_\_\_\_\_

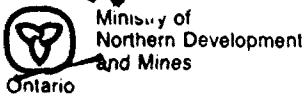
Power \_\_\_\_\_

Electrode array \_\_\_\_\_

Electrode spacing \_\_\_\_\_

Type of electrode \_\_\_\_\_

INDUCED POLARIZATION  
RESISTIVITY



DOCUMENT No. W9008-00626

Nov 29  
Dec 28

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Address <b>28 Ford Street, SAULT STE. MARIE, Ontario P6A 4N4</b>		Telephone No. <b>949-5928</b>
Survey Company <b>Colex Exploration Inc.</b>		
Name and Address of Author (of Geo-Technical Report) <b>R.A. MacGregor, 28 Ford St., Sault Ste. Marie, Ont.</b>		Date of Survey (from & to) Day Mo Yr Day Mo Yr <b>9 20 90 15 10 90</b>

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
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Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
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	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Other	
Total miles flown over claim(s)		
Date <b>Oct. 29/90</b>	Recorded Holder or Agent (Signature) <i>R. MacGregor</i>	

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	1111789				
	1111790				
	1111794				
	1111795				
	1136630				
	1136755				
	1136756				

**RECEIVED**  
NOV 26 1990  
MINING LANDS SECTION

Total number of mining claims covered by this report of work. **16**

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**

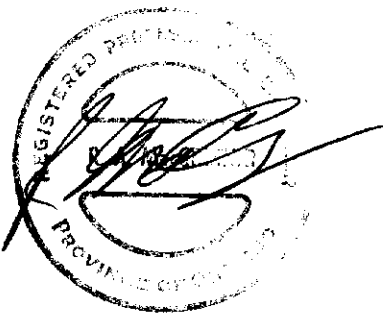
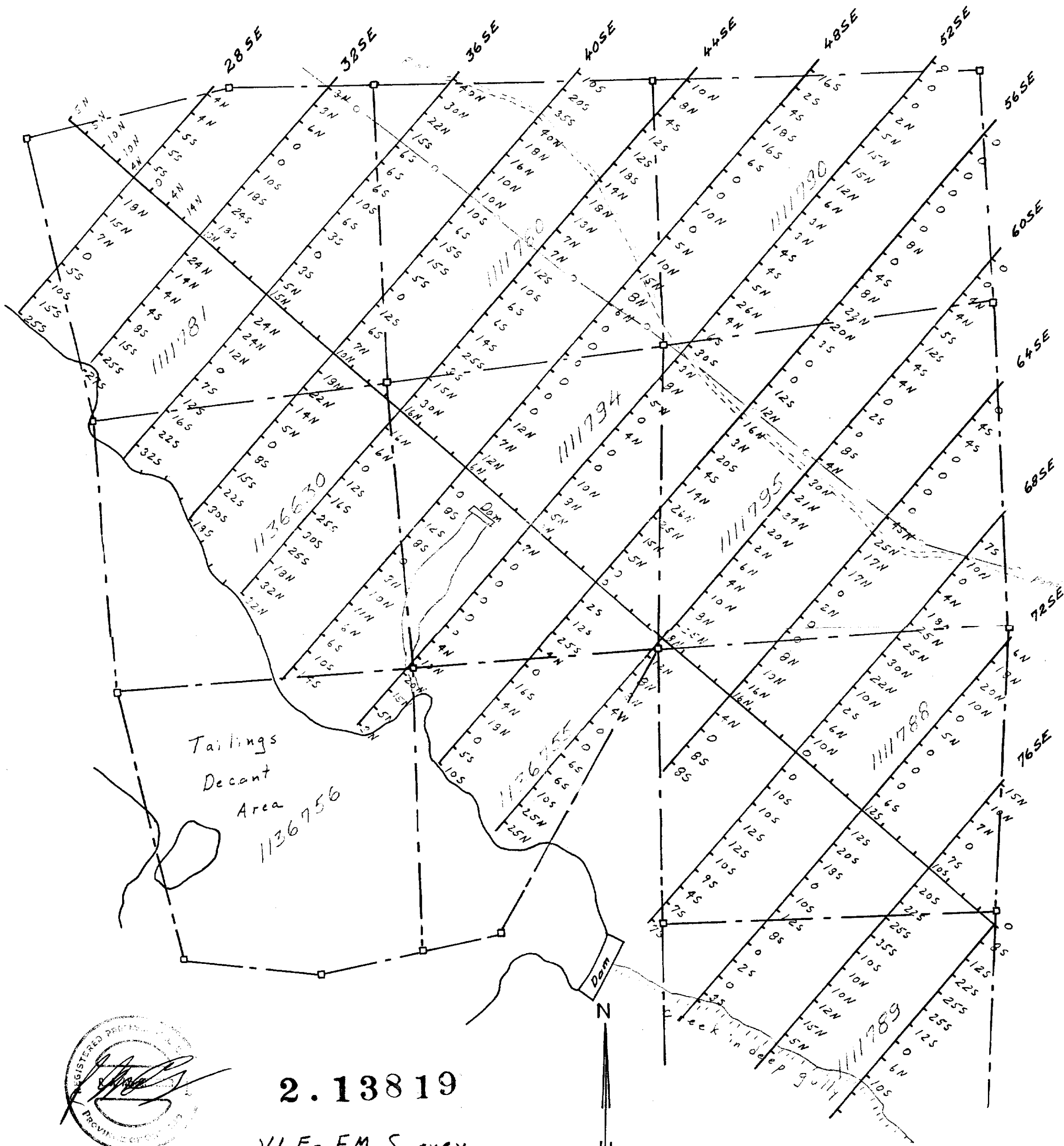
Telephone No. **705-949-5928** Date **Oct. 22/90** Certified By (Signature) *R. MacGregor*

For Office Use Only

Total Days Cr. Recorded <b>320</b>	Date Recorded <b>Oct 29/90</b>	Mining Recorder <i>for</i>
	Date Approved as Recorded	Principal Manager, Mining Lands <i>[Signature]</i>

Received Stamp  
**RECEIVED**  
LARDER LAKE  
MINING DIVISION  
OCT 29 1990  
TIME 10:42am

WP



2.13819

VLF-EM Survey

McElroy Twp.

Ontario

Scale 1" = 400'

Inst.: Crone Radem

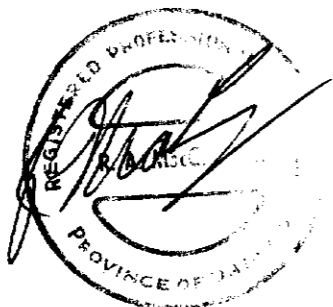
Her, Maine (24.0 KHz)



320845W0117 2.13819 MCELROY

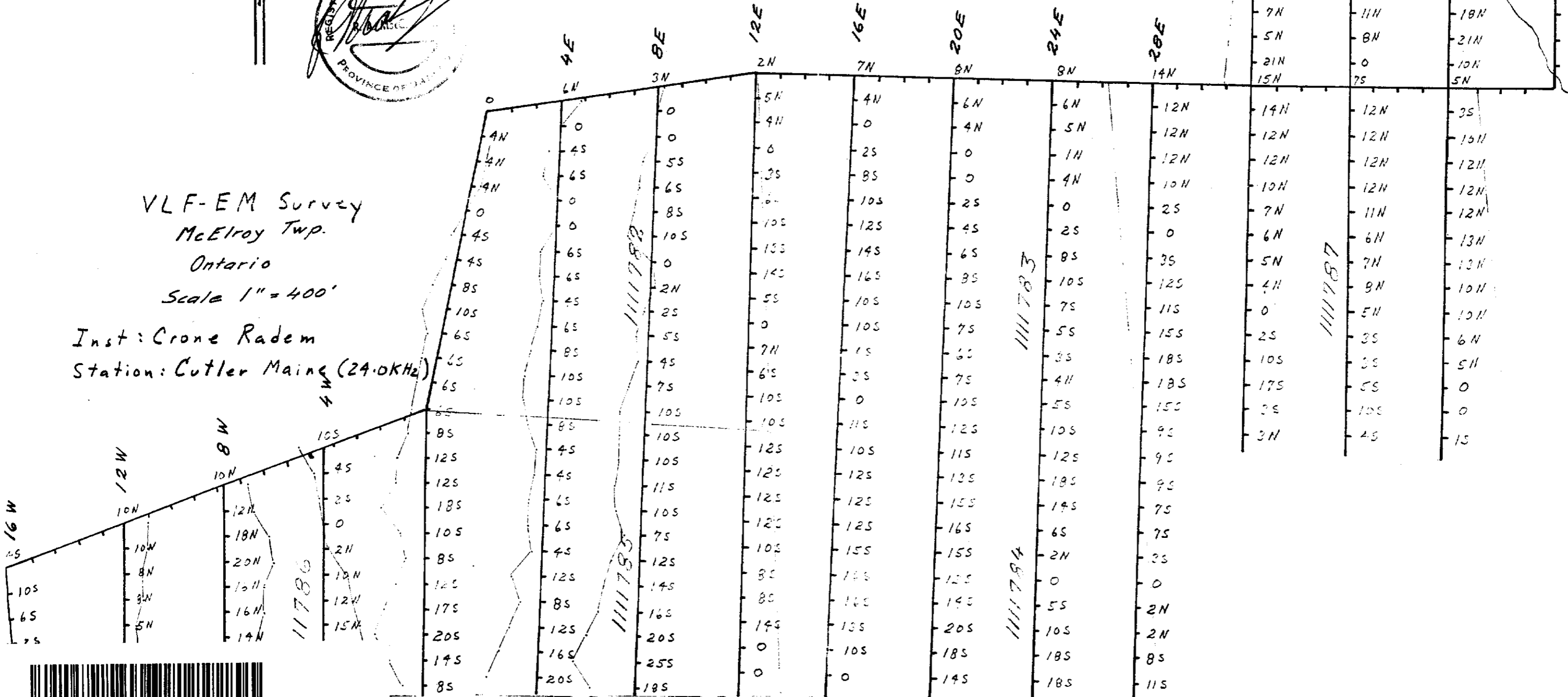


2.13819



VLF-EM Survey  
McElroy Twp.  
Ontario  
Scale 1" = 400'

Inst: Crone Radem  
Station: Cutler Maine (24.0KHz)



32E 36E 40E 44E

