



VLF-EM SURVEY - HEARST TWP., ONT.

by

COLEX EXPLORATION INC.

for

GARRISON GOLD INC.

February 20, 1988

RECEIVED

MAR 1 8 1988

MINING LANDS SECTION

VLF-EM SURVEY

HEARST TOWNSHIP, ONTARIO

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GARRISON GOLD INC.

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I. INTRODUCTION

A VLF-EM survey was conducted over cut lines on six claims in Hearst Township during December 1987.

II. LOCATION, ACCESS AND OWNERSHIP

The property is located in the south-central part of Hearst Township, Larder Lake Mining Division, District of Temiskaming, Ontario. The claims are numbered L917547 to 917549 and L979922 to 979924 both inclusive. They are recorded in the name of Garrison Gold Inc., c/o Box 1110, Sault Ste. Marie, Ontario.

Highway 624, a paved secondary highway passes through the central part of the claims. The claims lie about 5 miles south of the town of Larder Lake on this highway.

III. PREVIOUS EXPLORATION

There are no records of previous exploration on the claims, however a number of pits and trenches are in evidence of past work.

VI. TOPOGRAPHY

Large parts of the claims are covered by swamp or gravel and clay overburden. The east part of the claims are quite rugged due to steep outcrops formed of Cobalt sediments.

V. MAPPING PROCEDURE

A north-south baseline was laid out starting from a survey pin defining one of the claim corners on the north boundary. Crosslines were cut approximately every 400 feet from the baseline, starting at 500 feet south, as the north boundary (line 0) runs south-east and south-west from the survey pin. Picket lines were chained and picketed every 100 feet.

A VLF-EM survey was run with a Phoenix VLF-2 instrument set to the signal from Annapolis, Maryland (21.4 KHz). Readings were taken at 100-foot intervals along all lines, using the procedure outlined in Appendix I. The looping method was used for control of variation.

VI. GENERAL GEOLOGY

The general geology of Hearst Township has been described by J.E. Thomson. The area is underlain by early Precambrian volcanic, sedimentary and intrusive rocks. The eastern part of the claims are overlain by later Proterozoic Cobalt series sediments.

VII. DISCUSSION OF RESULTS

The VLF-EM survey shows four anomalies trending approximately NW-SE. Two of these anomalies approximately follow the margins of the magnetic body found in a magnetometer survey. They could represent shearing or mineralization along the edge of this presumed intrusion.

VIII. CONCLUSIONS AND RECOMMENDATIONS

Four anomalies have been located, two of which approximately parallel a magnetic body. Further work is indicated either by trenching or drilling to explain these anomalies.

Respectfully submitted

February 20, 1988

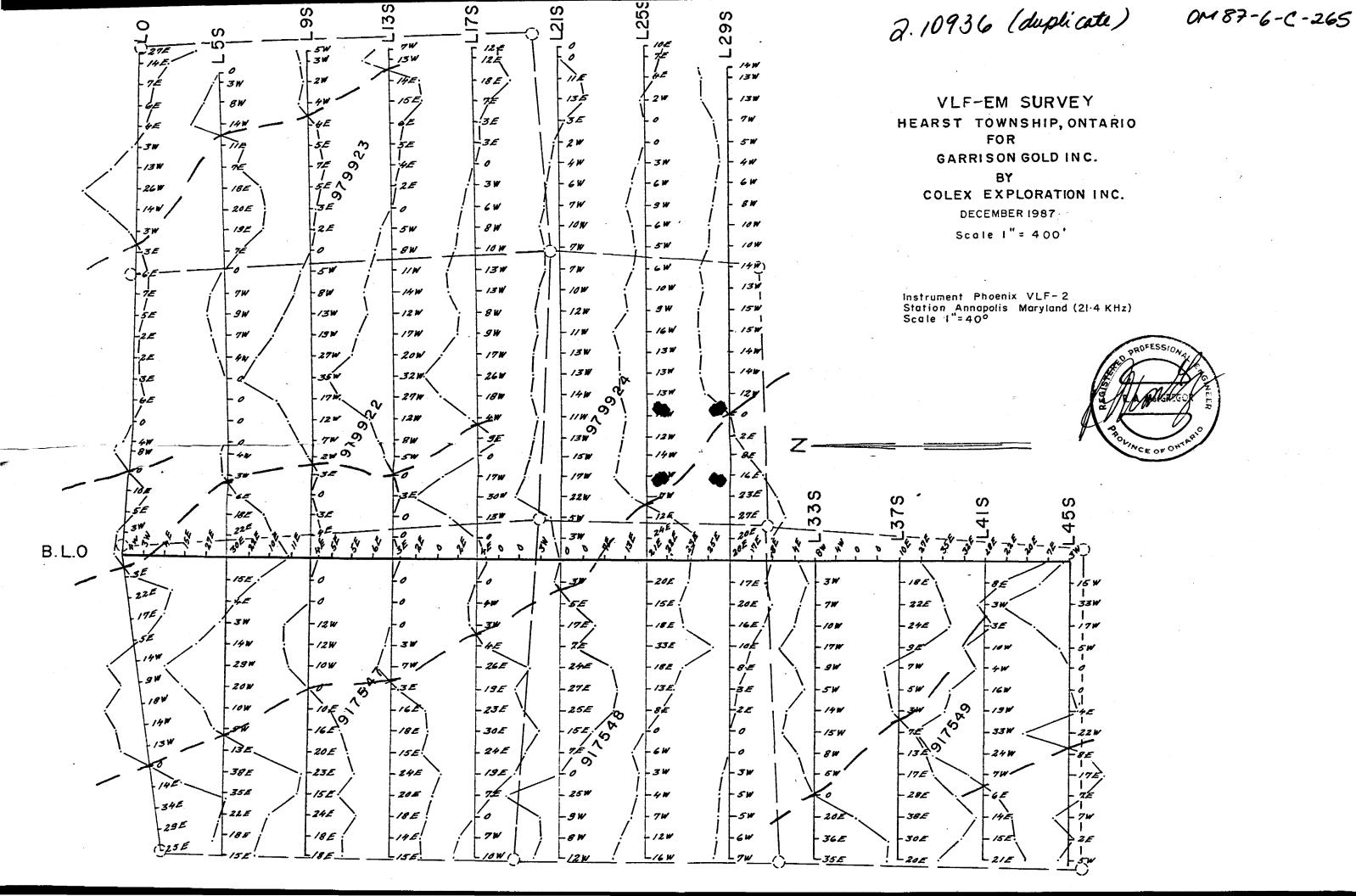
R.A. MacGregor, P. Eng.

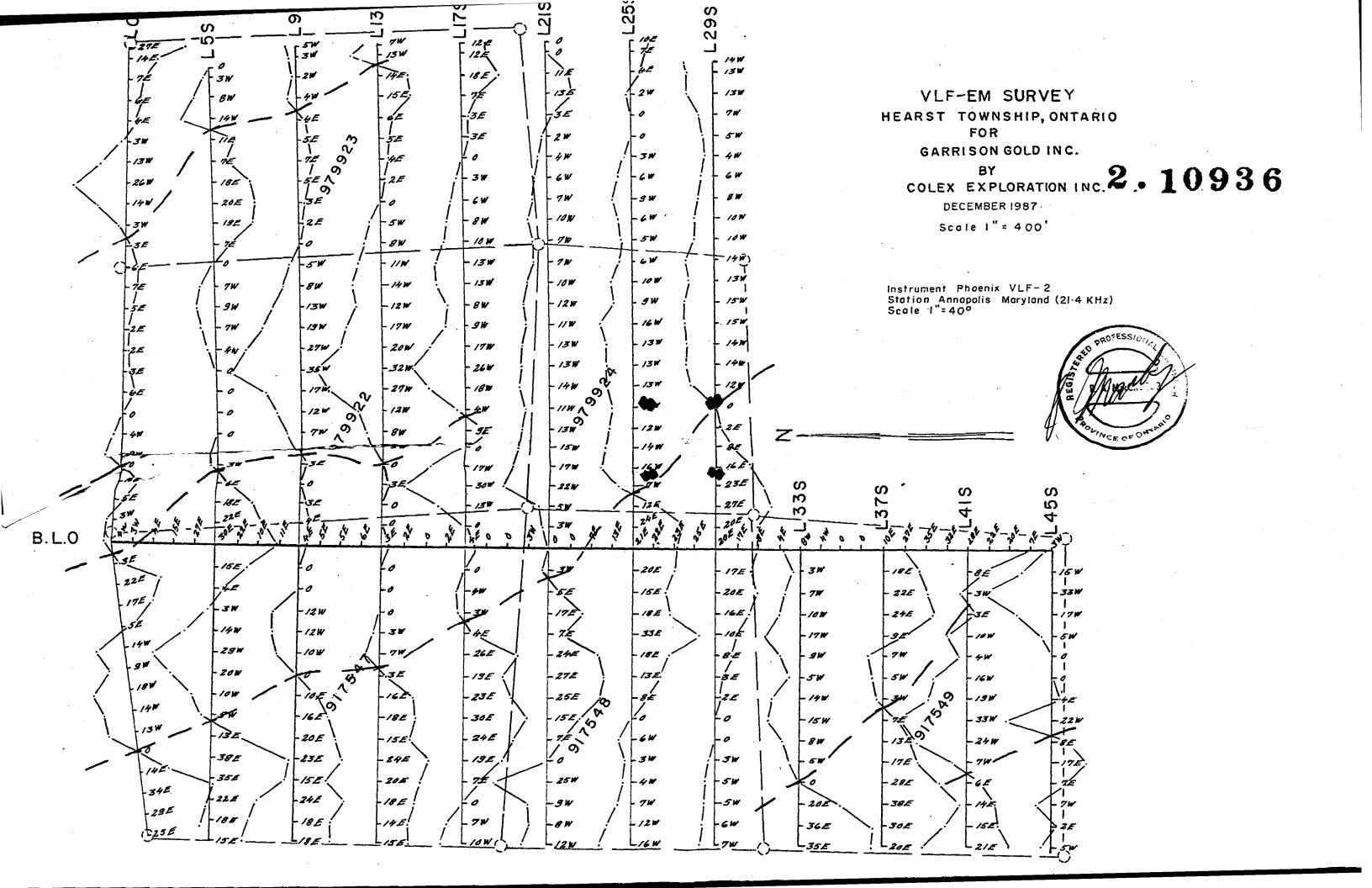
CERTIFICATE

- 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.
- 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.
- I attended Queen's University for two years in the Mining-Geology course.
- I personally supervised the field work covered by this report.

DAMA

R. A's Magoregor







Ministry of Northern Development and Mines



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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.

Township o		- Hearst - Garriso	- · · · · · · · · · · · · · · · · · · ·	MINING CLAIMS TRAVERSED List numerically		
Author of l Address of Covering D	Report	A. HaoGr Pord St	oration Inc. • gor • Sault Ste. Marie	£91784	(number)	
ENTER aline cutti survey. ENTER additional same gride	E CREDITS terI	udes ach (Special provisi	Geophysical -Electromagnetic 20 -Magnetometer	297992		
Res. Geol. Previous Su File No.		Qualifi Date	cations 2.1102 Claim Holder			

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

4	
•	

Number of Stations _	412	Number of I	Readings41	}
Station interval	100 ft.	Line spacing		
Contour interval	· · · · · · · · · · · · · · · · · · ·			
Instrument				· .
Accuracy - Scale	constant	•		
Diurnal correction	method			
Base Station check	-in interval (hours)			
Base Station locati	on and value			
		\$ §	•	
		•	•	
Instrument	Phoenix VLF-2			
			·	
Coil separation	N/A			
Accuracy	1/A 2 1/20			
	Fixed transmitter	☐ Shoot back	☐ In line	☐ Parallel line
Frequency	Annaphis, Maryl	and (21.4 KHz)		
Corrections made			· · · · · · · · · · · · · · · · · · ·	
****				·
Base station value	and location	· · · · · · · · · · · · · · · · · · ·		
Elevation accuracy	,			
Instrument				
Method	e Domain	☐ Freq	uency Domain	
Parameters - On t	e Domain ime	Freq	uency	
Parameters – On t	e Domain imeime	Freq Freq Rang	uency	
Parameters – On t	e Domain ime	Freq Freq Rang	uency	
Parameters — On t	e Domain imeime	Freq Freq Rang	uency	
Parameters — On t	e Domain ime ime y time	Freq Freq Rang	uency	
Parameters — On t — Off t — Dela — Integ	e Domain ime y time gration time	Freq Freq Rang	ge	
Parameters — On t — Off t — Dela — Integ Power Electrode array	e Domain ime y time gration time	Freq Freq Rang	uency	

INDUCED POLARIZATION

Ministry of Northern Development and Mines Ontario

Report of Work

Geochemical and Expenditures W8808 · 052

DOCUMENT No.

April 23

Instructions:

Please type or print.

If number of mining claims traexceeds space on this form, attach a exceeds space on this form, attach a mining claims traexceeds space on this form, attach a exceeds space on this form, attach a mining claims traexceed in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

	ng Act 2.70936 — Do not use shaded areas below.
Type of Survey(s)	Township or Area
VLF-EM Survey	Hearst Twp.
Claim Holder(s)	Prospector's Licence No.
Garrison Gold Inc.	T-1858
c/o Box 1110, Sault Ste. Marie,	, Ontario P6A 5N7
Survey Company Colex Exploration Inc.	Date of Survey (from & to) 10 12 87 31 12 87 7.72
Name and Address of Author (of Geo-Technical report)	

	xploration in	C.		Day Mo.	Vr. Day	12 87 7.72 Mo. 87.	
Name and Address of Author (o R.A. MacGregor	f Geo-Technical report) , 28 Ford St	., Sav	ilt Ste.	Marie,		,	
Credits Requested per Each (Claim in Columns at r	ight	Mining Cla	ims Traversed	(List in nume	erical sequence)	
Special Provisions	Geophysical	Days per Claim		ning Claim Number	Expend. Days Cr.	Mining Clair Prefix Num	
For first survey:	• Electromagnetic	20		917547	100/00.	Trettx Non	Der Days Ci.
Enter 40 days. (This includes line cutting)	- Magnetometer			917548	 		
For each additional survey:	- Radiometric			917549			
using the same grid: Enter 20 days (for each)	- Other			979922			
·	Geological			979923			
	Geochemical		100	979924			
Man Days	Geophysical	Days per Claim					
Complete reverse side and enter total(s) here	- Electromagnetic						
RECEIVE	- Magnetometer						
1(2 0 2	- Radiometric						
MAR 4 1988	- Other						
	Geological		1 302				
MINING LANDS SECT	Geochemical						
Airborne Credits		Days per Claim	1433				
Note: Special provisions	Electromagnetic					ARDER L	AKE
credits do not apply to Airborne Surveys.	Magnetometer					DEGET	/EII
	Radiometric			G <mark>eological s</mark> SSMENT FIL		FE 10 5 4	200 4
Expenditures (excludes power	er stripping)			OFFICE	T - HH	150 1 25 K	300
Type of Work Performed	or stripping,				1 11)	818 103 ini 81 18	137
			AF	PR 5 1988	31 14	5,15	1912
Performed on Claim(s)							
			RE	CEIVE	4 4		
	•			A REAL PROPERTY AND A SECURIOR OF THE PROPERTY AND A SECURIOR		\$\line{\pi} \text{\$\pi\$} \rightarrow	
Calculation of Expenditure Days	s Credits	Foto:	- A Sect			3. 6	
Total Expenditures		Totai s Credits					
\$	÷ 15 =		-			Total number of mir	ning 6
						claims covered by the report of work.	
Instructions Total Days Credits may be an	oportioned at the claim h	older's	<u></u>	- 0//	<u> </u>	7	<u> </u>
choice. Enter number of days				or Office Use Cr. Date Recorded		Mining Recorder	
columns at fight.	- 0		Recorded	Fel o	1988	Mull W	ermen
Peb. 13, 1988 Rec	conded Holder or Agent V	(gnature)	1,20	24 W	and 88	IRranch Director	~
Certification Verifying Repo	ert of Work					W.	
I hereby certify that I have a	****	nowledge of	the facts set fo	rth in the Report	of Work anne	xed hereto, having per	formed the work

or witnessed same during and/or after its completion and the annexed report is true.

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

Peb. 13/88

P.O. BOX 1110 SAULT STE. MARIE ONTARIO PSA 5N7

R. A. MACGREGOR, P.ENG.

MINING ENGINEER

404 PALAGE DRIVE SAULT STE. MARIE, ONTARIO POD-5H5 OFFICE: 705-949-5928 HOME: 705-949-4250

Mar 10/88

MINISTRY OF NORTHERN DEVELOPMENT & MINES Mining Lands Section Whitney Block 1 Room 6610 Queen's Park TORONTO, Ontario M7A 1W3

Dear Sir or Madam:

Enclosed please find report (s) on VLF-EM Survey- Marst Du VLF-EM Survey- Me Garry Sup, re: Barrisa Gold Sac. Wate Set 20 + Set 12/88 Kessestively

Snet Henni

Yours truly

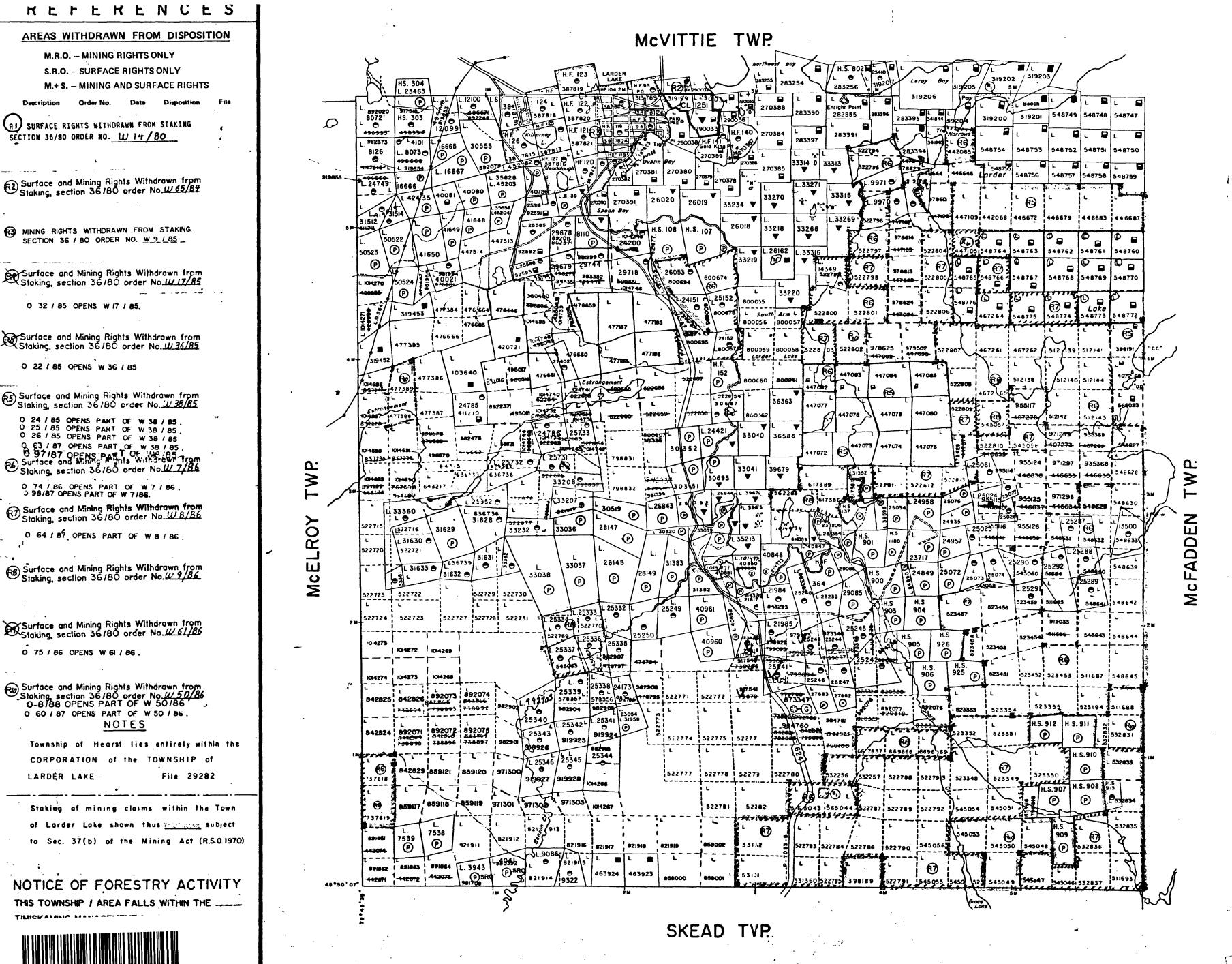
Robert A. MacGregor, P. Eng.

/jh

RECEIVED

MAR 18 1988

MINING LANDS SECTION



LEGEND

IIGHWAY AND ROUTE No.	- ()
THER ROADS	
RAILS	
URVEYED LINES:	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ET	C. ———
NSURVEYED LINES:	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
AILWAY AND RIGHT OF WAY	+ + +
TILITY LINES	~~~ ₹
ON-PERENNIAL STREAM	
LOODING OR FLOODING RIGHTS	
UBDIVISION OR COMPOSITE PLAN	
ESERVATIONS	
RIGINAL SHORELINE	*************************
IARSH OR MUSKEG	
IINES	☆
RAVERSE MONUMENT	•
	•

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	② or ●
" SURFACE RIGHTS ONLY	
", MINING RIGHTS ONLY	_
LEASE, SURFACE & MINING RIGHTS	
", SURFACE RIGHTS ONLY	=
", MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	🕙
CANCELLED	&
SAND & GRAVEL	.
NOTE: MINING RIGHTS IN PARCELS PATENTED PE	Y THE PUBLIC-

SCALE:	1	INCH =	40	CHAINS

FEET						
	<u></u>	1000	2000	4000	6000	8000
	_	-				
	0 2	200	1	000	20 0 Q	
METR	ES		(1	KM)	12 KM	1

Replaced on Aug 19, 1987

TOWNSHIP

M.N.R. ADMINISTRATIVE DISTRICT KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION / **TIMISKAMING**



Ministry of Land Natural

Management

Ontario

Resources Branch 2.10936

Date FEBRUARY, 1985

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