

2.3307



31C15NW0056 2.3307 CLARENDON

010

SELCO MINING CORPORATION LIMITED  
GEOPHYSICAL REPORT  
CLAIMS EO-502014 - 502019  
CLARENDON TOWNSHIP  
FRONTENAC COUNTY, ONTARIO

**RECEIVED**

MAY 26 1980

MINING LANDS SECTION

I.G.L. Sinclair,  
April, 1980.

## INTRODUCTION

This report describes the results of geophysical surveys on a group of six claims in Clarendon Township. The field work was carried out by N. Wilson and D. Watkins under the supervision of I.G.L. Sinclair.

## LOCATION AND ACCESS

The claims are located approximately 3 kms. north-east of Ardoch on Lots 33 and 34 in Concession II and Lot 34 in Concession III.

The property can be reached by driving south from the village of Ompah on the Green Lake Road for some 5 kms.

## CLAIM STATUS

The claims EO-502014 - 502019, were recorded on May 12th, 1977. Reports on geological and geochemical surveys have previously been filed for assessment by St. Joseph Explorations Ltd. and the claims are in good standing until May 12th, 1980.

The claims have now been transferred from St. Joseph Explorations Ltd. to Selco Mining Corporation Limited.

## GEOLOGICAL SETTING

The claims are underlain by metasedimentary rocks of the Grenville Supergroup. Rock types include graphitic marble, silicified marble and biotite paragneiss.

The regional structural trend, as defined by schistosity and compositional layering, is approximately N70°E.

## GEOPHYSICAL SURVEYS

### V.L.F. Survey

This survey was conducted using a Crone Radem VLF-EM instrument; dip angles were measured using the signal being transmitted from the station at Cutler, Maine. Readings were taken at 30m intervals along grid lines 1+20m apart; data obtained were filtered, using the Fraser method, prior to being plotted.

### Magnetometer Survey

A Sharpe Fluxgate MF-1 instrument was used for this survey; readings were taken at 30m intervals along grid lines 1+20m apart. Base stations were established at the intersection of the base line with each cross line and readings were corrected to allow for diurnal variations. A contoured plan of the results is attached.

The geophysical plans also show results obtained from surveys conducted on an extension of the grid to east over land, the mineral rights of which have been optioned from a private landowner.

#### RESULTS AND RECOMMENDATIONS

The hydro power line which crosses the north-western portion of the surveyed area has severely distorted both the V.L.F. and magnetometer results along its length; this distortion appears to be limited to the area within the boundaries of the hydro right-of-way. The V.L.F. readings taken over Green Lake also appear to be distorted, presumably due to the presence of conductive lake bottom sediments.

The V.L.F. shows the presence of numerous conductive zones of varying strength, throughout the area, most of which are extended parallel to the regional strike of the bedrock. Many of these may be caused by topographic and structural features of the area but those which can be correlated with geochemical anomalies should be investigated further by trenching and, if warranted, by drilling; the most interesting such anomaly lies at the N.E. corner of claim 502018 where a conductive zone has been detected at the possible up-ice termination of a strong, linear zinc anomaly.

The magnetometer survey reveals the presence of several anomalous zones which show a general tendency to be elongated parallel to the regional strike. The magnetic anomalies show little correlation with conductive zones or geochemical anomalies and appear to be related to variations in bedrock lithology rather than to the presence of mineralized zones.





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SELCO MINING CORPORATION LIMITED

GEOPHYSICAL REPORT

CLAIMS: EO-502033 - 502038

CLARENDON TOWNSHIP

FRONTENAC COUNTY, ONTARIO

I.G.L. Sinclair,

May, 1980.

## INTRODUCTION

This report describes the results of geophysical surveys on a group of six claims in Clarendon Township. The field work was carried out by N. Wilson and D. Watkins under the supervision of I.G.L. Sinclair.

## LOCATION AND ACCESS

The claims are located approximately 2 km. north-east of the village of Ardoch on Lots 32 and 33 in Concession IV and Lot 33 in Concession V.

The property can be reached by driving south from the village of Ompah on the Green Lake road for some 6 km.

## CLAIM STATUS

The claims, EO-502033 - 502038, were recorded on May 12th, 1977. Reports on geological and geochemical surveys have previously been filed for assessment by St. Joseph Explorations Limited and the claims are in good standing until May 12th, 1980.

The claims have now been transferred from St. Joseph Explorations Limited to Selco Mining Corporation Limited.

#### GEOLOGICAL SETTING

The claims are underlain by metasedimentary rocks of the Grenville Supergroup. Rock types present include graphitic marble, silicified marble and biotite paragneiss. A geological map of the claims was previously filed for assessment by St. Joseph Exploration Limited.

The regional strike, as defined by schistosity and compositional banding, is approximately N70°E.

#### GEOPHYSICAL SURVEYS

##### V.L.F. Survey

This survey was conducted using a Crone Radem V.L.F.-E.M. instrument; dip angles were measured using the signal transmitted from Cutler, Maine. Readings were taken at 30m intervals along grid lines 1+20m apart and are plotted on the accompanying plan; the readings were filtered by computer using the Fraser method and the contours are based on the results of the filtering.



### Magnetometer Survey

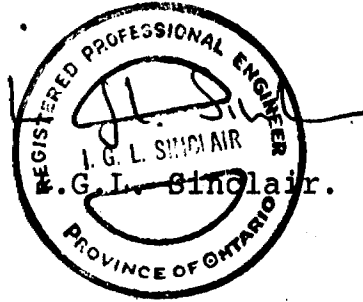
A Sharpe Fluxgate MF-1 instrument was used for this survey; readings were taken at 30m intervals along grid lines 1+20m apart. Base stations were established at the intersections of the base line with each cross line and readings were corrected, when necessary, to allow for diurnal variations. A contoured plan of the results is attached.

### RESULTS AND RECOMMENDATIONS

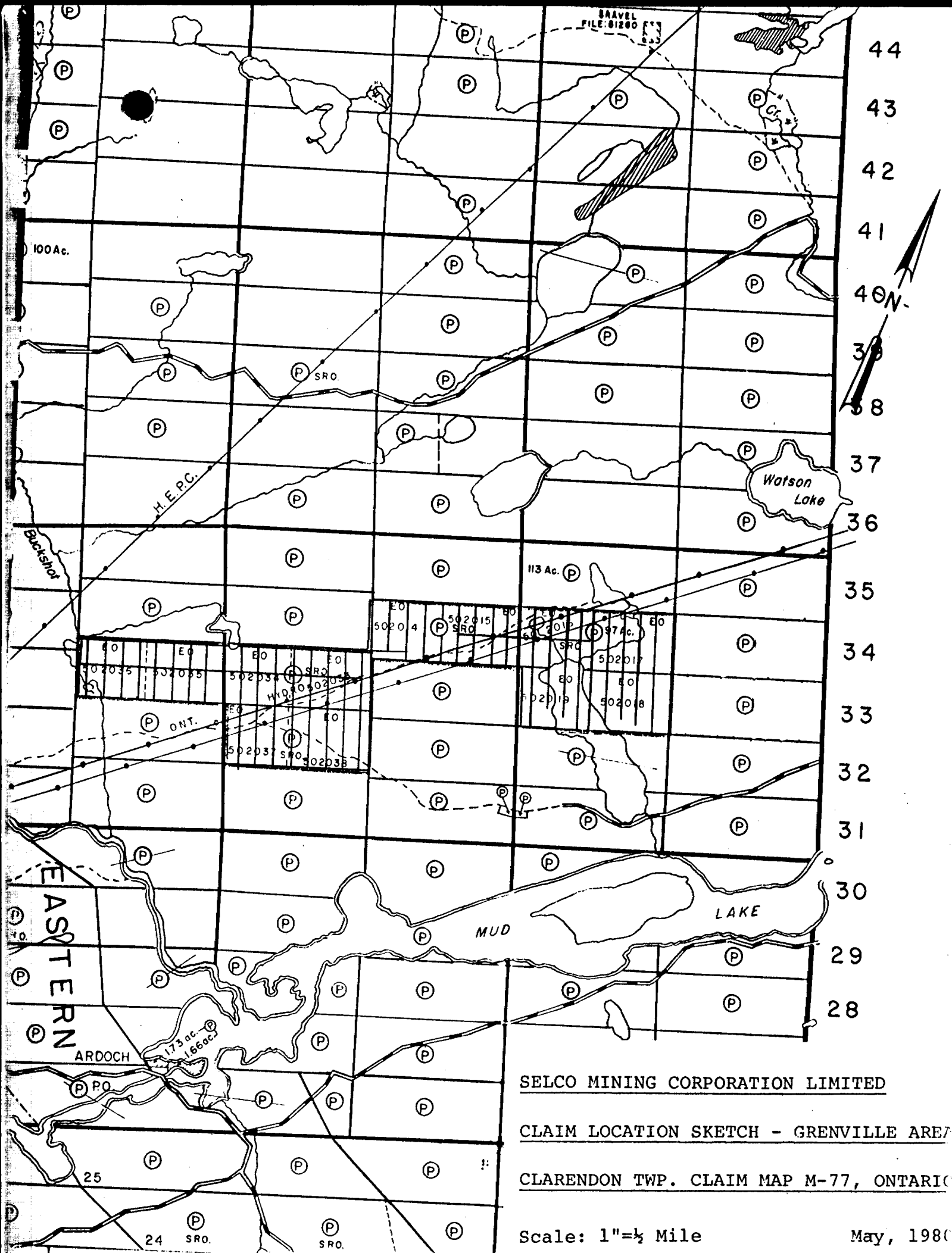
The hydro power line which crosses the area surveyed appears to have severely distorted the V.L.F. results and cast doubts on the validity of any conductors located in its vicinity. Results of the magnetometer survey within the vicinity of the power line area also suspect.

Elsewhere in the area a strong conductor is located south of the base line at the west end of the survey area and is flanked by a magnetic anomaly. No significant geochemical anomaly is associated with this conductor and it is regarded as having low priority as a drill target. Detailed geological examination of available outcrop and some additional soil sampling will, however, be carried out in the vicinity of the conductor.

No other zones of interest were located as a result of this survey although there are some weakly conductive zones and scattered magnetic highs in the northern half of the area.



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SELCO MINING CORPORATION LIMITED

CLAIM LOCATION SKETCH - GRENVILLE AREA

CLARENDON TWP. CLAIM MAP M-77, ONTARIO

Scale: 1" = 1/2 Mile

May, 1980

GEOPHYSICAL - GEO  
TECHNICAL I



900

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 Geophysical  
Township or Area Clarendon - M-77  
Claim holder(s) Selco Mining Corporation Limited  
Author of Report I.G.L. Sinclair  
Address Suite 1700, 55 University Ave., Toronto  
Covering Dates of Survey February 1 - 24, 1980  
(linecutting to office)  
Total Miles of Line cut 17.05 miles

MINING CLAIMS TRAVERSED	
List numerically	
EO	502014
(prefix)	(number)
EO	502015
EO	502016
EO	502017
EO	502018
EO	502019
EO	502033
EO	502034
EO	502035
EO	502036
EO	502037
EO	502038
TOTAL CLAIMS <u>12</u>	

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	Geophysical	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	-Electromagnetic	20
ENTER 20 days for each additional survey using same grid.	-Magnetometer	20
	-Radiometric	
	-Other	
	Geological	
	Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)  
Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: May 20 80 SIGNATURE: [Signature]  
Author of Report or Agent

PROJECTS SECTION  
Res. Geol. \_\_\_\_\_ Qualifications 2,3058  
Previous Surveys \_\_\_\_\_  
Checked by \_\_\_\_\_ date \_\_\_\_\_  
GEOLOGICAL BRANCH \_\_\_\_\_  
Approved by \_\_\_\_\_ date \_\_\_\_\_  
GEOLOGICAL BRANCH \_\_\_\_\_  
Approved by \_\_\_\_\_ date \_\_\_\_\_

OFFICE USE ONLY

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

## GEOPHYSICAL TECHNICAL DATA

### GROUND SURVEYS

Number of Stations EM = 1012 MAG = 1605 Number of Readings EM = 1012 MAG = 1605

Station interval 25m/12.5m

Line spacing 120m

~~Profile scale or~~ Contour intervals 10%

Every 100 gammas to 1000

(specify for each type of survey) Every 500 gammas thereafter

### MAGNETIC

Instrument Sharpe Fluxgate MF-1/McPhar M-700

Accuracy - Scale constant ± 5 gammas

Diurnal correction method Base stations

Base station location Taken at the intersection of B.L. & Cross Lines

### ELECTROMAGNETIC

Instrument Crone Radem

Coil configuration \_\_\_\_\_

Coil separation \_\_\_\_\_

Accuracy ± 10

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency Cutler Maine

(specify V.L.F. station)

Parameters measured Dip angle of secondary field.

### GRAVITY

Instrument \_\_\_\_\_

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

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

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

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

### INDUCED POLARIZATION -- RESISTIVITY

Instrument \_\_\_\_\_

Time domain \_\_\_\_\_ Frequency domain \_\_\_\_\_

Frequency \_\_\_\_\_ Range \_\_\_\_\_

Power \_\_\_\_\_

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

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

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


















Miller Twp. (M.127)

THE TOWNSHIP  
OF  
**CLARENDON**

COUNTY OF  
FRONTENAC  
EASTERN ONTARIO  
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 
- TRAILS 
- PATENTED S.R.O. 

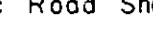
**NOTES**  
This Map Is Not To Be Used  
FOR SURVEY PURPOSES


Lot And Concession Lines Shown Hereon Are Projected From The Best Information Available, But Their True Position Is Not Guaranteed, For Official Survey Purposes Consult The Original Survey Plans And Field Notes Of Records In The Ministry Of Natural Resources.

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






Flooded Lands Shown Thus: 

Flooding Rights Reserved On Cross Lake And Fawn Lake To Elevation 110.5'.  
File: 126113.

Original Survey Line Of Frontenac Road Shown Thus: 

Islands in Clarendon Lake shown thus   
Surface Rights Only withdrawn from staking.  
File: 140798

AREAS WITHDRAWN FROM STAKING

S.R. - SURFACE RIGHTS	M.R. - MINING RIGHTS			
Section	Order No.	Date	Disposition	File
	Reserved for Public Use		SR	87431
			SR & MR	59062
			SR	125573
	M.N.R. Reservation		SR	140861
	Reservation		SR & MR	92175

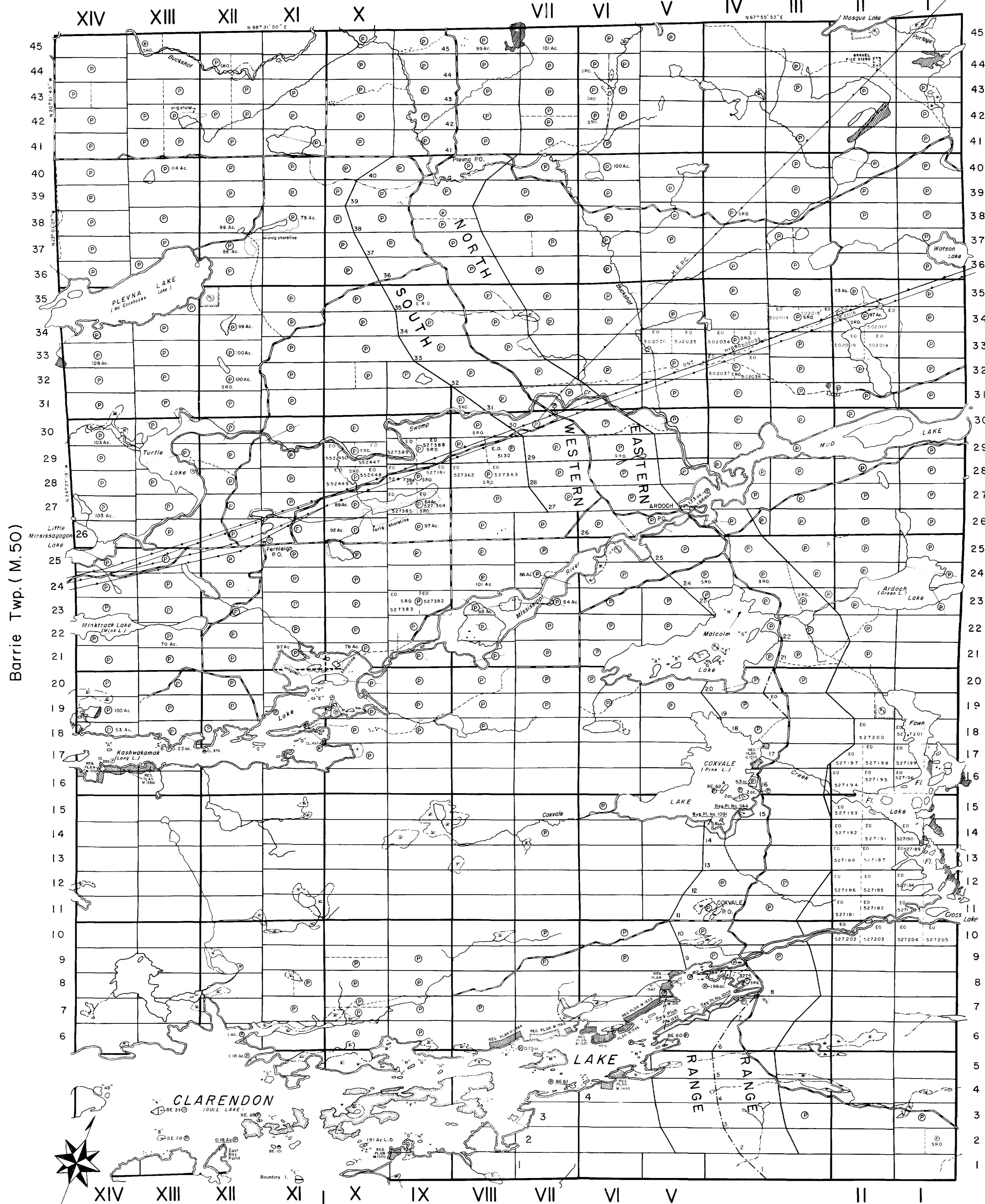
DATE OF ISSUE  
**MAY 27 1980**  
SURVEYS AND MAPPING  
BRANCH

PLAN NO.-M.77

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

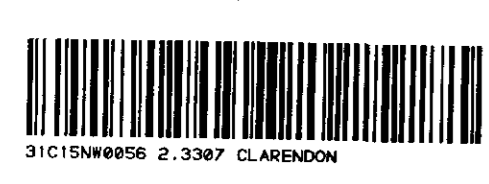
Barrie Twp. (M.50)

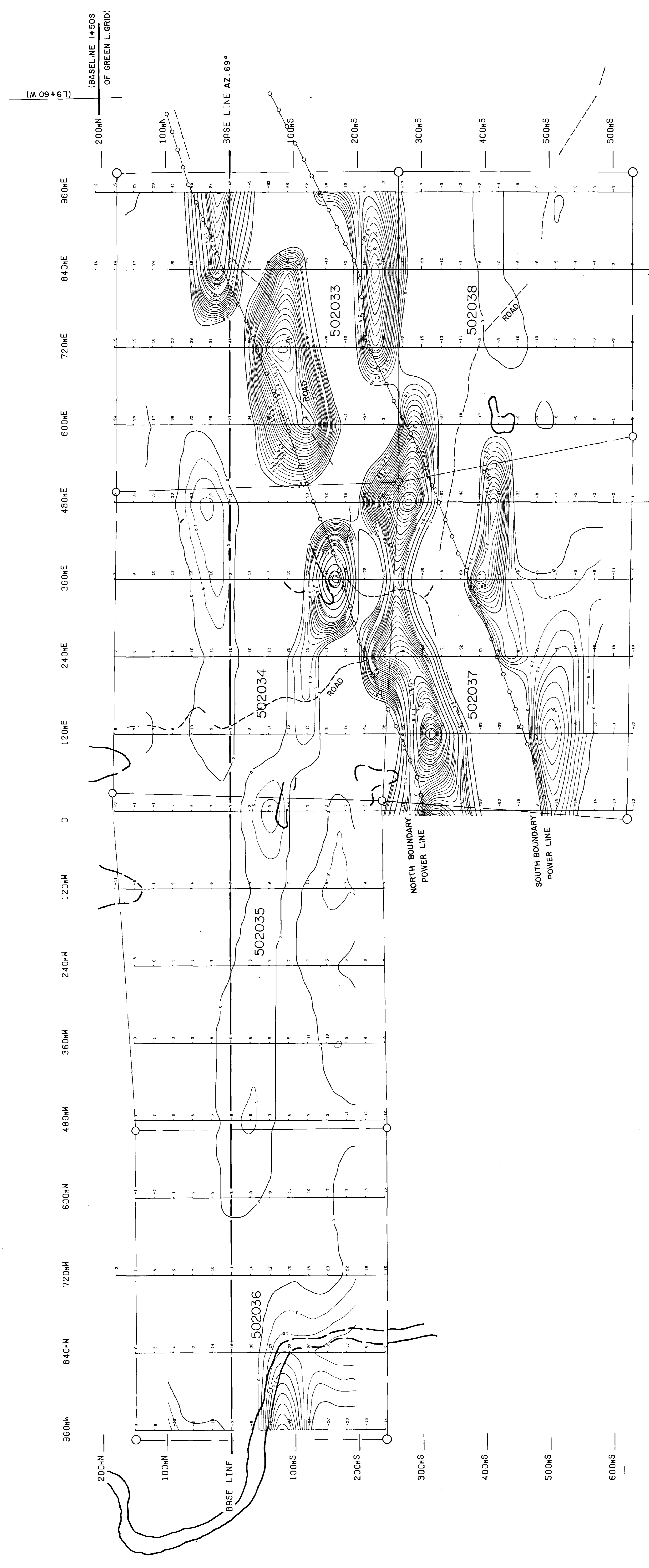
Palmerston Twp. (M.139)



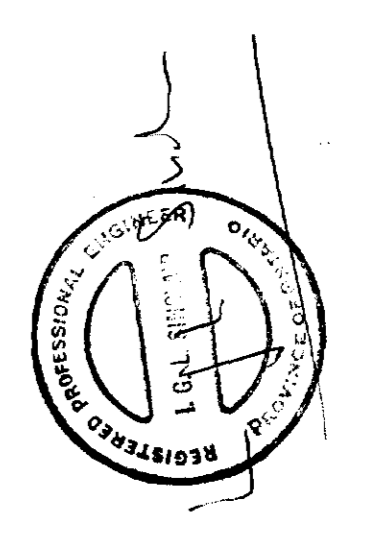
Barrie Twp. (M.109)

Olden Twp. (M.136)





NOTE: REFER TO S.M. 2913 — MAG.  
 S.M. 2943C — V.L.F. CLAIMS LOC. PLAN (Sheet 2 of 2)  
 S.M. 2943 — MAG. (Sheet 2 of 2)



**SELCO MINING CORPORATION**  
 (EXPLORATION DIVISION) LIMITED

GRENVILLE AREA  
 CLARENDON TWP. — V.L.F. SURVEY  
 CLAIMS EO 502033 TO EO 502038

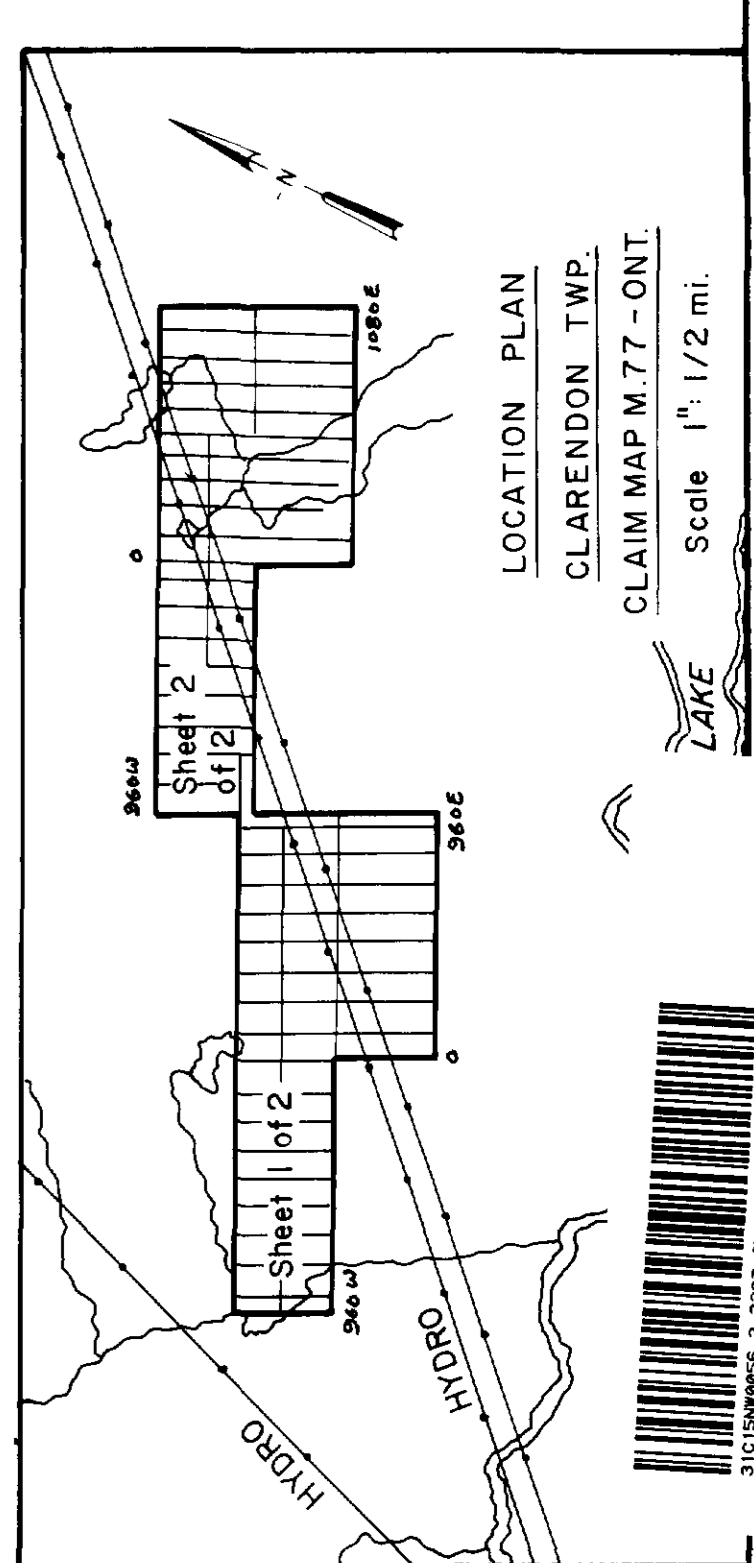
DATE: 1977  
 DRAWN BY: J.E. GIBSON  
 CHECKED BY: J.E. GIBSON

Sheet 1 of 2

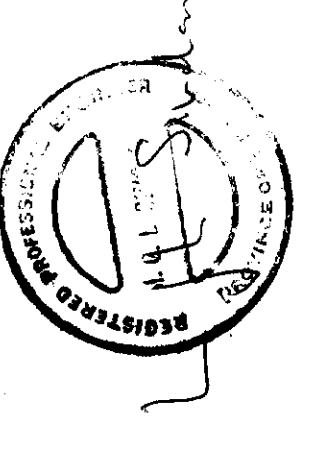
1:2500  
 0 100  
 METRES

ELECTROMAGNETIC INSTRUMENT  
 TYPE: CRONE  
 V.L.F.  
 Instrument: RADEM  
 Degrees of Dip Angle  
 Profile Scale  
 Filtered Dip Angles (Framer)  
 Contour Interval: 10%

Station: CUTLER, MAINE



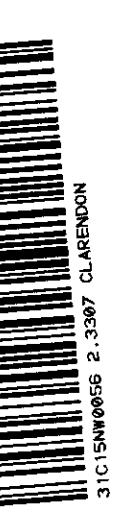
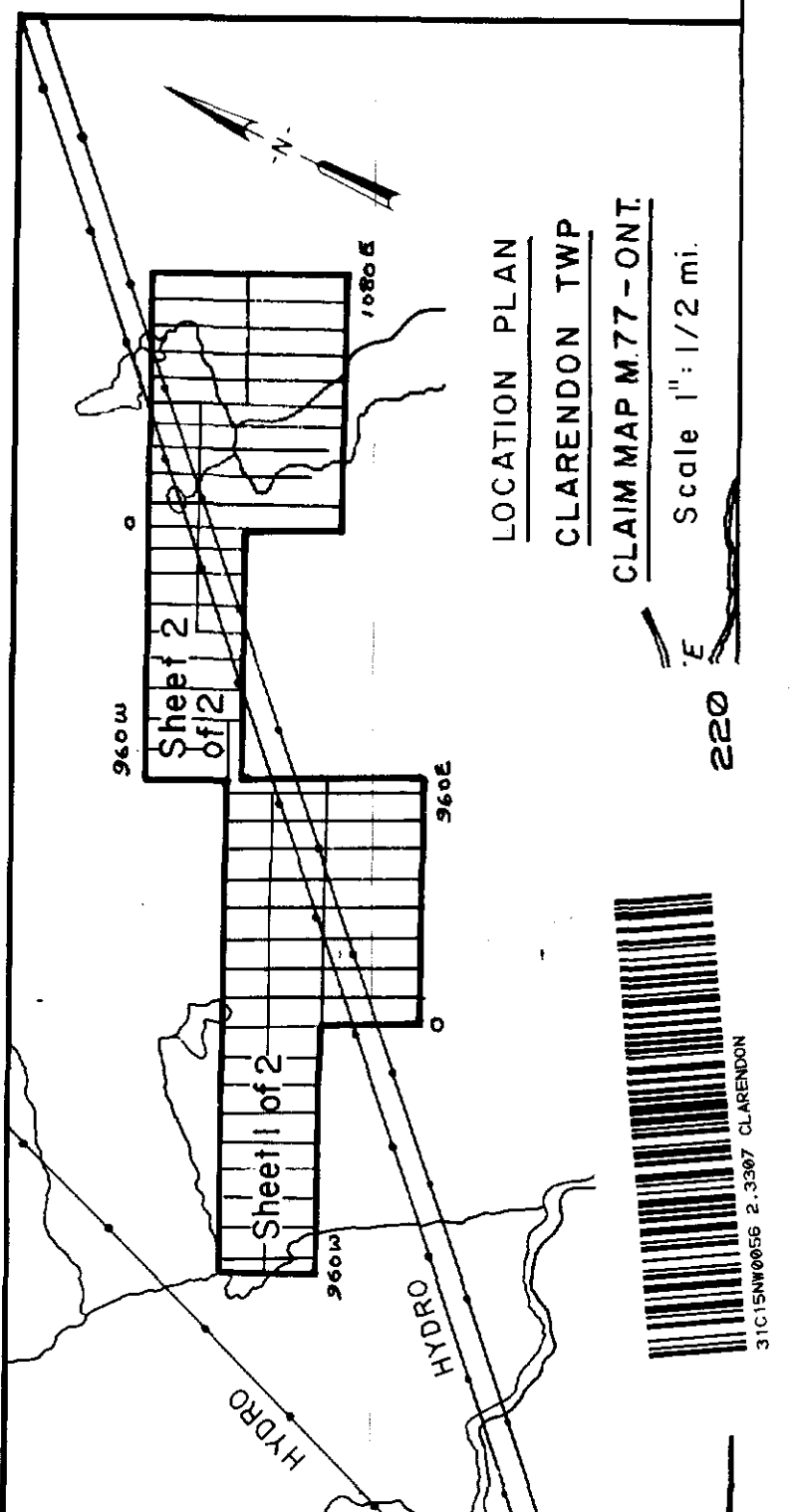
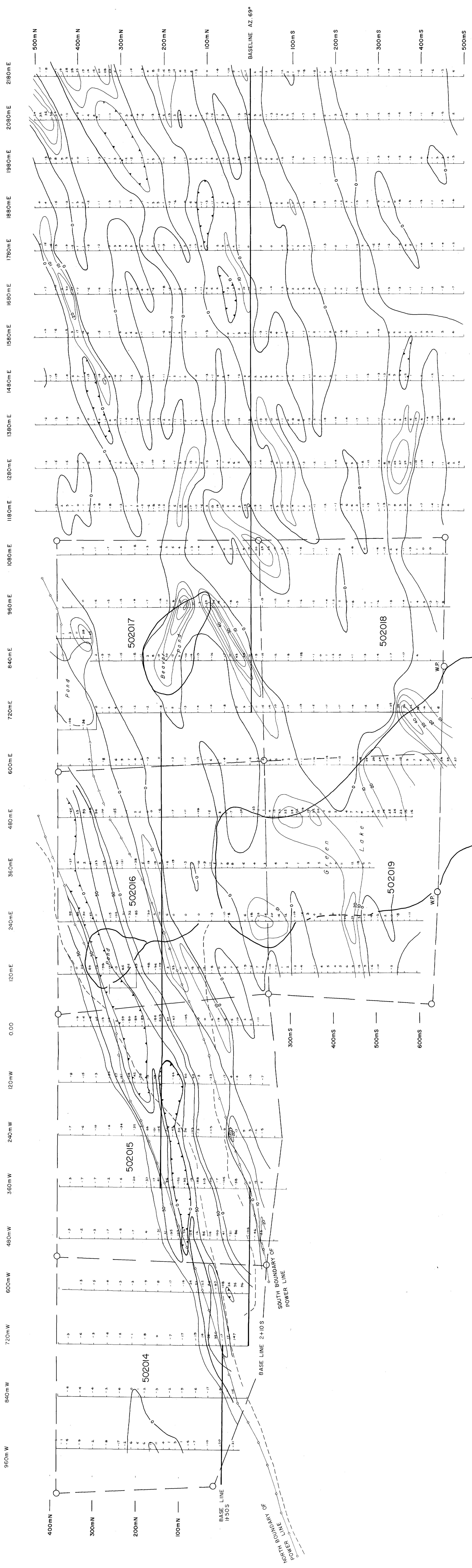
NOTE: REFER TO SM 2943 - MAG.  
SM 2913 - MAG Sheet 1 of 2  
SM 2913 - VLF Sheet 2 of 2



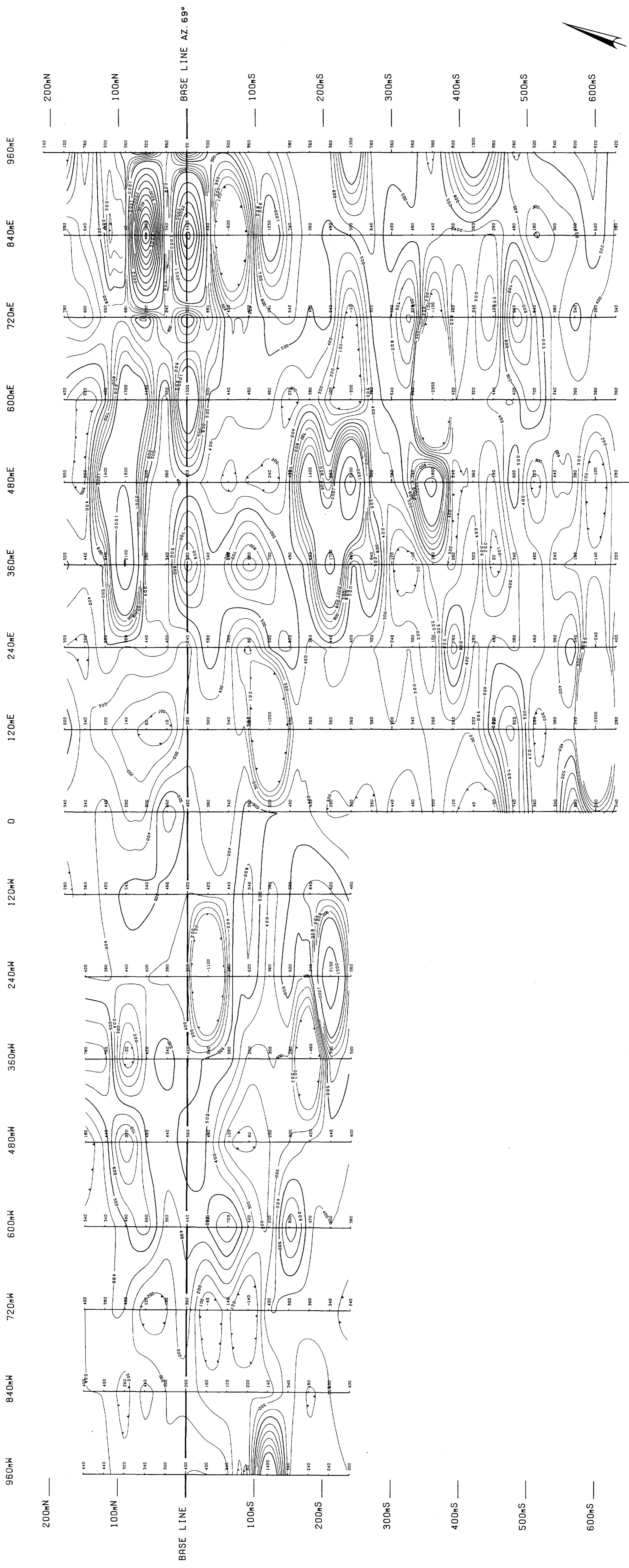
**SELCO MINING CORPORATION LIMITED**  
(EXPLORATION DIVISION)  
GRENVILLE AREA  
CLARENDON TWP - VLF SURVEY  
CLAIMS EO 502014 TO EO 502019

1:2500  
0 100  
METRES  
Sheet 2 of 2

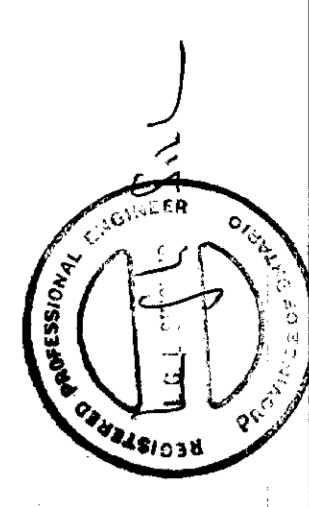
ELECTROMAGNETIC INSTRUMENT	
TYPE:	CRONE
VLF:	
Instrument:	RADEM
Dip Angle:	Station: CUTLER, MAINE
Profile Scale:	Station: CUTLER, MAINE
Filtered Dip Angles (Framer):	1, 3, 5
Contour Interval:	10%







NOTE: REFER TO SM 2913C - V.L.F.  
 SM 2943 - MAG. (Sheet 2 of 2)  
 SM 2943C - V.L.F. CLAIMS, LOC. PLAN  
 (Sheet 2 of 2)



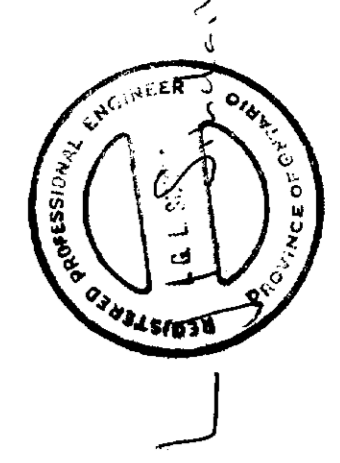
**SELCO MINING CORPORATION**  
 LIMITED  
 EXPLORATION DIVISION  
 GRENVILLE AREA  
 CLARENDON TWP - MAG. SURVEY  
 CLAIMS E.O. 502033 TO E.O. 502038

MAGNETOMETER INSTRUMENT  
 TYPE: M-700  
 Readings in Gauss: 100  
 Scale: 1:100  
 Contour Interval: Every 100 Gauss to 1000 Gauss  
 Every 500 Thereafter

1: 2500  
 0 100  
 METRES



NOTE: REFER TO SM 2943 - V.L.F.  
 SM 2943 - MAG. SHEET OF 2  
 SM 2913 - V.L.F. SHEET 2 OF 2



**SELCO MINING CORPORATION LIMITED**  
 (INCORPORATED IN CANADA)  
 EXPLORATION DIVISION  
**GRENVILLE AREA**  
 CLARENDON TWP. - MAG. SURVEY  
 CLAIMS EO 502014 TO EO 502019  
 April, 1982

1: 2500  
 0 100  
 METRES

Sheet 2 of 2

MAGNETOMETER INSTRUMENT:  
 TYPE: SHERRILL FLUORITE MF-1  
 Readings in Gauss: [ 400  
 Profile:  
 Contour Interval: Every 100 Gauss to 500 Gauss,  
 Every 200 Gauss thereafter.

