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**OCT 31 1980**

**MINING LANDS SECTION**

GEOPHYSICAL SURVEY REPORT

GRENFELL TOWNSHIP

CLAIM L507527

Re: Assessment Work Credit  
Geophysical Survey

Douglas Grant Sirola P.Eng., M.B.A.

October 23, 1980

*L.D.*

RESUME

Douglas Grant Sirola

Birth Date: May 19, 1940

Place: Kirkland Lake, Ontario

Education: B.S. Metallurgical Engineering , Michigan Technological University; B.S. Engineering Administration, Michigan Technological University; M.B.A. University of Toronto

Professional: Professional Engineer - province of Ontario,  
member - Canadian Institute of Mining and Metallurgy  
member - Prospectors and Developers Association

Employment: Haileybury School of Mines - faculty 1970 - present

Mineral Industry Consultant - 1976 - present

Research Securities of Canada Limited - vice president  
and director - 1973-1975

Merrill Lynch Royal Securities Limited - mining  
industry financial analyst - 1970-1972

Midland Osler Securities Limited - mining industry  
financial analyst - 1968-1970

Nordberg Manufacturing Company - sales engineering  
- 1964-1967

The Sirola family has been extensively involved in mining exploration work for many years. My own exposure to claim staking and geophysical work began at the age of fifteen.

## LOCATION AND ACCESS TO THE PROPERTY

Claim L507527 is one of an eleven claim contiguous group located near the south boundary of Grenfell Township some nine miles west of the town of Kirkland Lake. Access is gained by a quarter mile long bush road east from Highway #11 approximately one and one-half miles north of the Kenogami Lake bridge.

## SUMMARY OF EXPLORATION TO DATE

During the 1978 summer program a VLF EM survey covering over 10,000 feet was completed on claim L507527 in order to establish structural relationships. The survey was followed up by extensive prospecting of surface outcrops and existing trenches. Assays were completed on over seventy grab samples collected at various locations on the claim.

Two sites were selected, and extensive backhoe stripping was completed.

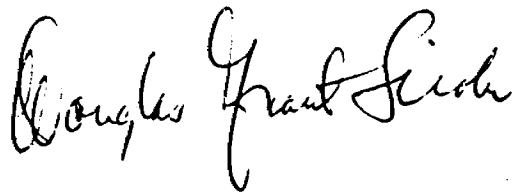
## METHOD OF SURVEY

An east-west base line was cut across claim L507527 and the adjoining claim L566640 in order to allow a tie-in to a known survey pin at post number one on the latter claim. Over 200 stations on a north-south grid were then established in the area of interest on claim 507527. These are individually identified in the bush by indelibly marked bush tape. The north-south grid is at 100 foot line intervals with stations at 50 foot intervals.

Marked stations were established either by pace and compass or by tape and compass. A VLF survey was conducted using a Ronka model 16 EM unit.

## RESULTS AND CONCLUSIONS

Results appear to confirm the known north-westerly geological trend for the area. No crossovers were indicated by the survey results.



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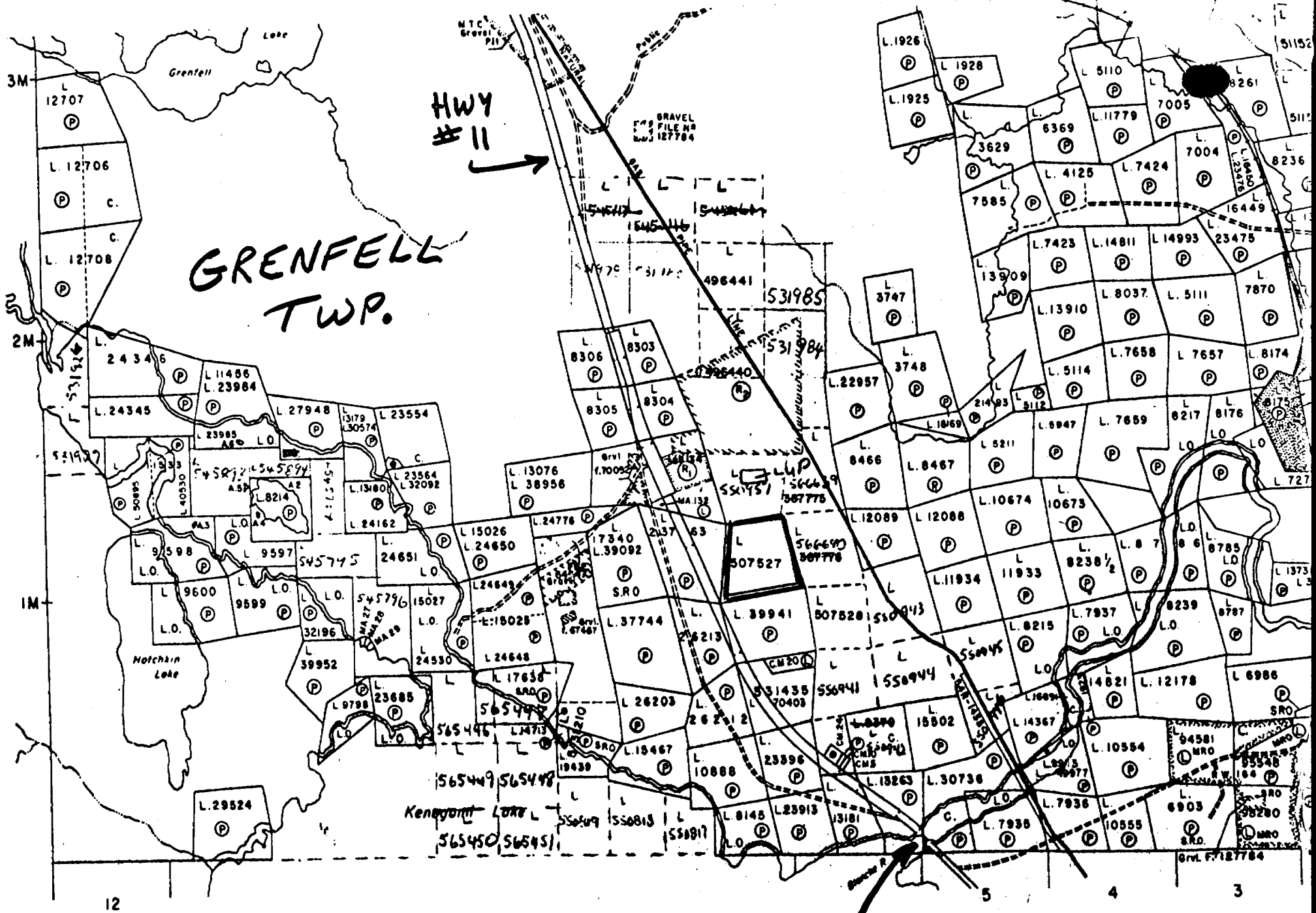


\*Note: This report includes a claim group map completed after filing for assessment work credit. The group map was prepared on the basis of extensive investigation of patent surveys. Assessment work credit for drafting is recorded in this report.

IN PHASE EM READINGS  
GRANT SIROLA CLAIMS (CLM 507527)  
GRENFELL TOWNSHIP

<u>Location</u>	200W	100W	0W	100E	200E	300E	400E	600E	700E	800E
900N						+29				
850N			+19			+30			+25	+28
800N	+9	+9	+21	+25	+30	+28	+37	+35	+25	+25
750N			+21			+25		+35	+29	+25
700N	+5	+9	+19	+22	+25	+25	+32	+35	+35	+25
650N		+9	+17			+25		+32	+35	+28
600N	+2	+9	+15	+15	+20	+22	+26	+29	+32	+32
550N		+9	+10		+20	+19		+29	+30	+33
500N	+5	+7	+10	+15	+20	+19	+21	+20	+30	+30
450N	+5	+5	+7	+14	+15	+18		+18	+27	+30
400N	+3	+2	+6	+10	+10	+15	+12	+16	+20	+25
350N	+2	+3	+2	+7	+6	+7		+15	+20	+25
300N	-1	0	0	+1	+5	+5	+2	+14	+10	+15
250N*	-5	0	-1	+1	0	0	+5	+10	+12	+15
200N	-7	0	-6	-5	0	0	+5	+10	+10	+13
150N	-3	-3	-1	-8	-2	+3	+6	+2	+5	+11
100N	-9	-6	0	-6	-3	+5	0	+8	+5	+8
50N	-12	-8	-3	-1	-5	-1	+3	+4	+7	+5
0	-19	-12	-8	-5	-10	-10	-3	-3	+2	+5
50S			-9				-8	-10	-5	-2
100S			-9	-4	-5	-17	+2	-10	-5	0
150S			-16				-5	-10	-4	+4
200S			-12	-7	-2	-5	-25	-9	-7	+2
250S			-16					-10	-10	-3
300S			-20					-15	-22	-6
350S			-19					-8	-15	-10
400S			-25					+3		-20
450S			-29					+9		
500S			-36							
550S			-41	fence nearby						
600S			-33							

\*east-west baseline cut at 250N. See claim group map



# GRENFELL TWP.

HWY # 11

BRAVEL FILE NO. 127784

L. 307527

12

EBY TWP. M-345

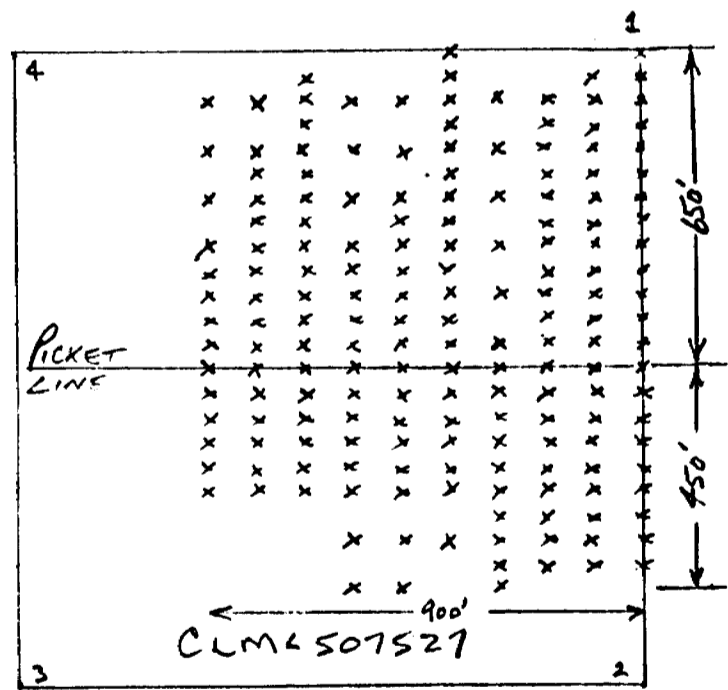
KENOGAMI LAKE BRIDGE

Gr. F. 127784

# GEOPHYSICAL SURVEY

RONKA EM-16

## LOCATION OF STATIONS



13

- SCALE:  $\frac{1}{4}$ " = 100'
- LINE SPACING: 100'
- STATION INTERVAL: 50' EXCEPT WHERE OTHERWISE SHOWN.
- 179 MARKED STATIONS WITH READINGS COMPLETED.

GEOPHYSICAL SURVEYS

Author of Report: Grant Sirola

Instrument: Ronka EM 16

Expenditure: self operated

DATE	OFFICE or FIELD	OPERATOR /HOURS	PACE, CHAIN & COMPASS OPERATOR /	HOURS
May 22/80	F	G. Sirola 6	D. Hakola	6
May 23/80	O	G. Sirola 4		
May 24/80	O	G. Sirola 4		
May 24/80	F	G. Sirola 4	M. Sirola	4
May 28/80	F	G. Sirola 6	D. Hakola	6
May 28/80	O	G. Sirola 2		
June 1/80	F	G. Sirola 3	B. Sirola	3
June 2/80	O	G. Sirola 2		
June 3/80	F	G. Sirola 5	D. Hakola	5
June 3/80	O	G. Sirola 2		
July 8/80	F	G. Sirola 8	D. Hakola	8
July 8/80	O	G. Sirola 4		
July 10/80	F	G. Sirola 3	D. Hakola	3
July 13/80	F	G. Sirola 8		
July 13/80	O	G. Sirola 2		
July 15/80	O	G. Sirola 5		
<b>TOTAL HOURS</b>		<b>68</b>		<b>35</b>

Addresses: Grant Sirola, Barbara Sirola, Mike Sirola  
P.O. Box 1178, Haileybury, Ontario

Dennis Hakola, RR# 1 Cobalt, Ontario

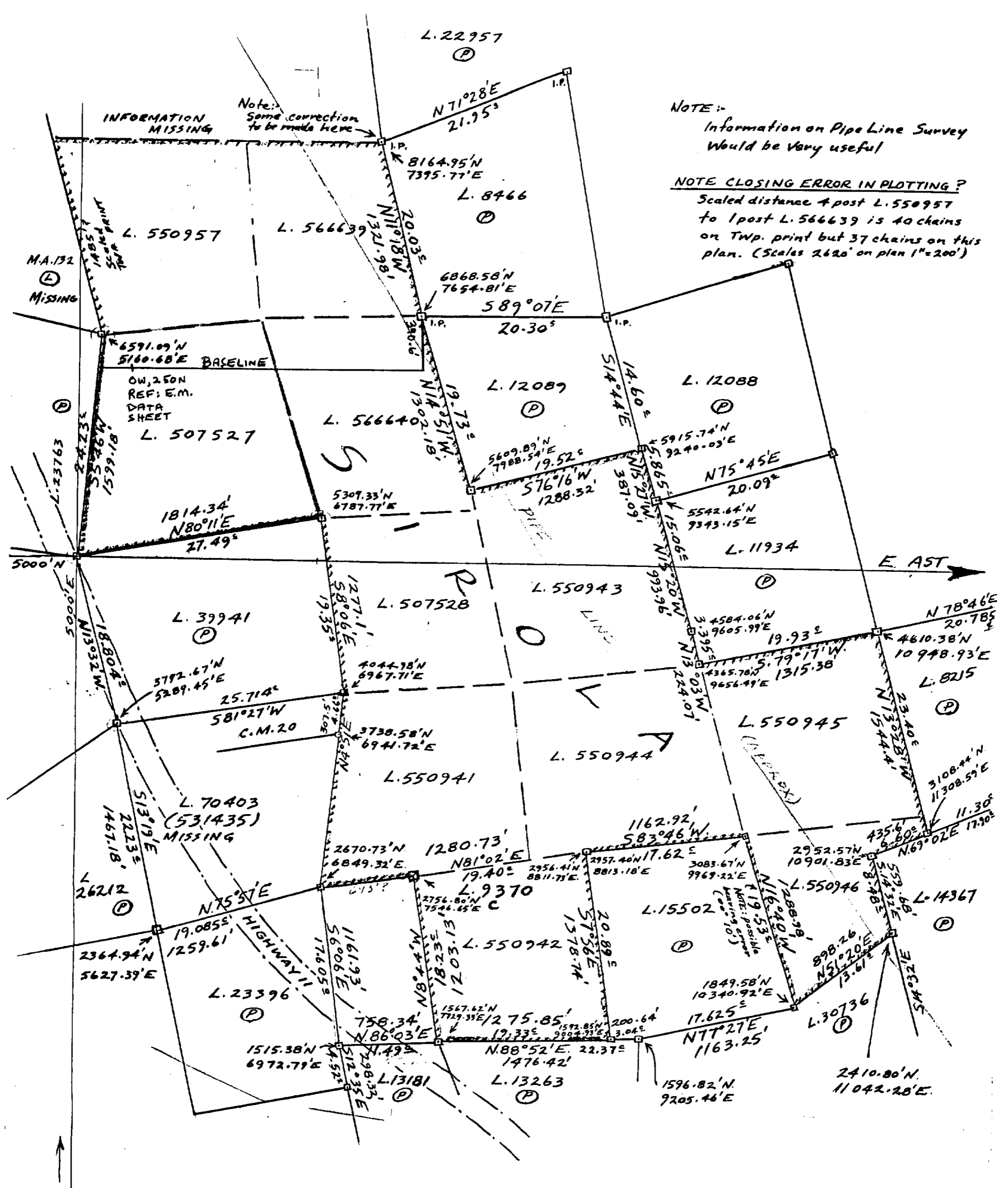
$$\frac{68}{8} \times 7 = 59.5 \text{ days.}$$

$$\frac{35}{8} = 4.375 \text{ days.}$$

Total 63 days

*Grant Sirola*





NOTE:-  
Information on Pipe Line Survey  
Would be Very useful

NOTE CLOSING ERROR IN PLOTTING?  
Scaled distance 4 post L. 550957  
to 1 post L. 566639 is 40 chains  
on Twp. print but 37 chains on this  
plan. (Scales 2620' on plan 1"=200')

INFORMATION MISSING  
Note: Some correction  
to be made here

M.A.132  
MISSING

OW, 250N  
REF: E.M.  
DATA  
SHEET

5000' N  
3' 0005

L. 70403  
(531435)  
MISSING

L. 26212

N. ASTRONOMIC

SURVEY NOTES ETC.  
**G. SIROLA CLAIMS**

GRENFELL TWP. - KIRKLAND LAKE AREA - ONT.

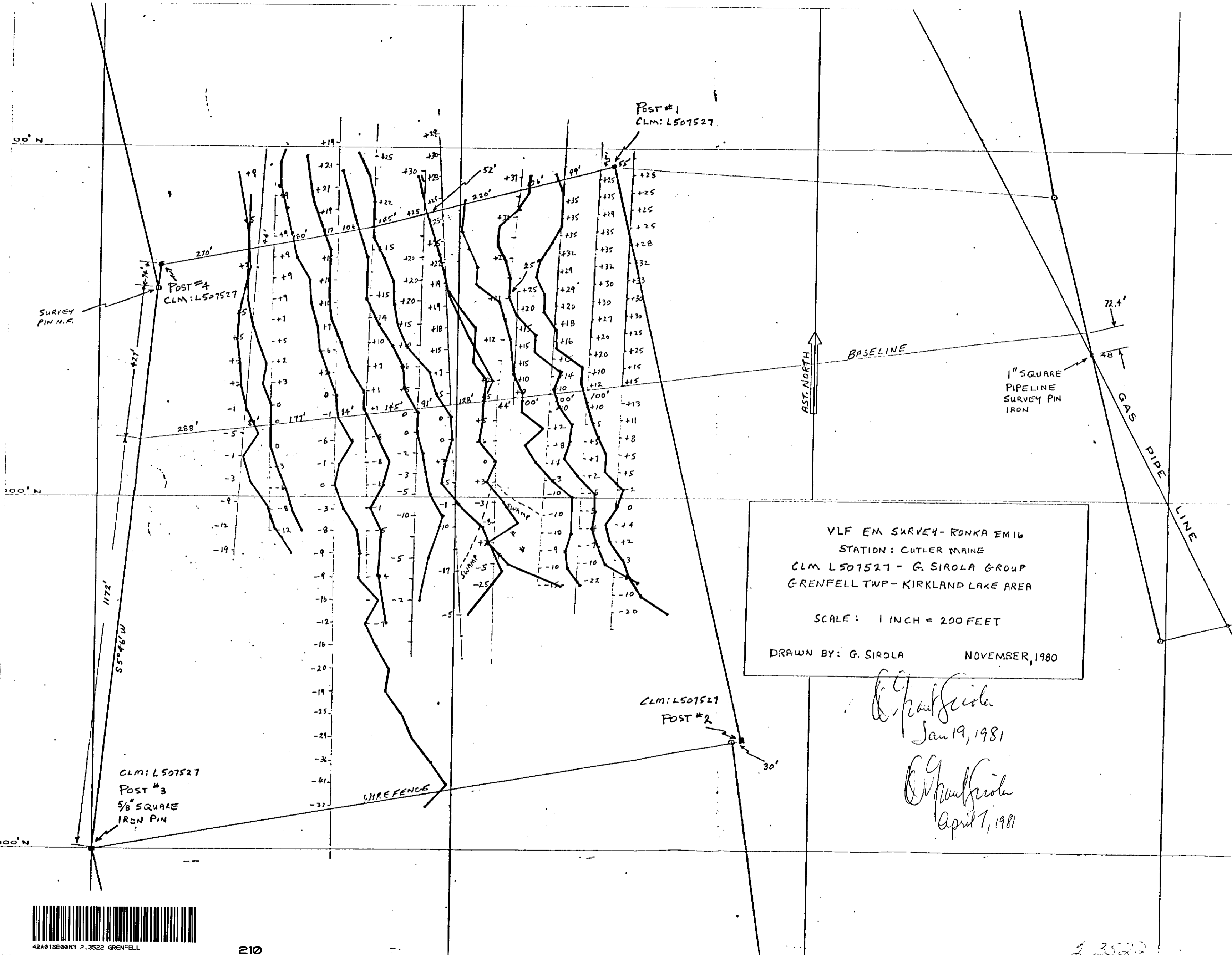
Scale: 1 inch = 10 chains

- SYMBOLS**
- Surveyed claim corner
  - Surveyed claim boundary
  - - - Unsurveyed claim boundary
  - ▬▬▬ Property boundary

October 9, 1980  
H.H.

f co-ordinates: N° 4 post of L. 39941 = 5000' N. and 5000' E. (Astronomic)





VLF EM SURVEY - RONKA EM 16  
 STATION: CUTLER MAINE  
 CLM L507527 - G. SIROLA GROUP  
 GRENFELL TWP - KIRKLAND LAKE AREA  
 SCALE: 1 INCH = 200 FEET  
 DRAWN BY: G. SIROLA NOVEMBER, 1980

*G. Sirola*  
 Jan 19, 1981  
*G. Sirola*  
 April 7, 1981

