



52J02SW0048 52J02SW0044 FOURBAY LAKE

010

Proton Magnetometer
and
VLF Electromagnetic
Surveys

King's Bay Project
NTS 52-J-2

Phantom Exploration Services Ltd.

July, 1983

R. D. Middaugh

INTRODUCTION

Steep Rock Iron Mines Limited of Atikokan, Ontario contracted Phantom Exploration Services Ltd. of Thunder Bay, Ontario, to conduct magnetic and electromagnetic surveys on the King's Bay project during the fall and winter of 1982-1983.

LOCATION, ACCESS AND GRIDS

The survey area is located on King's Bay on Sturgeon Lake approximately 25 kilometers south of Savant Lake, Ontario. The area is protected by 13 patented claims numbered BG 128, BG 129, BG 134, BG 135, BG 136, BG 149, and AL 367-AL373 inclusive and 131 unpatented claims numbered 612198-612205 inclusive, 570992-570998 inclusive, 612083-86 inclusive, 475230-34 inclusive, 612072-82 inclusive, 487247-66 inclusive, 487673-80 inclusive, 569540-45 inclusive, 570217-266 inclusive, 569987-95 inclusive, 704758, 704760, 437022, and 486281. These claims are either held by or are under option to Steep Rock Iron Mines Limited. The claims under option are from several different parties.

Access to the general area via highway #599 is excellent all year round. The Great Lakes Forest Products Six Mile Lake Road and related haul roads can be easily travelled during the summer and greatly facilitate access to the property by snow machine in the winter.

The grid was established by Steep Rock Iron Mines Limited, who contracted the work to Mr. Allen Best of Savant Lake, Ontario. Approximately 270 kilometers of wing lines and 19 kilometers of base and tie lines were cut, chained, and picketed at 25 meter intervals. The work was done during the fall and winter of 1982-83.

PERSONNEL

The day to day and over-all supervision of the geophysical program was under R.D. Middaugh of Phantom Exploration Services Ltd.

INSTRUMENTATION

Magnetic

A proton precession magnetometer (model MP-2) manufactured by Scintrex Ltd. of Concord, Ontario was used for this survey. The total field measurement was read with a resolution of one gamma and all values were corrected for diurnal variations using a MBS-2 model base station recorder, also manufactured by Scintrex Ltd. Readings were recorded at 25 meter intervals on the grid lines. Where the magnetic gradient exceeded 300 gammas between 25 meter stations, an intermediate reading was taken at 12.5 meters.

Electromagnetic

A VLF EM-16 unit manufactured by Geonics Ltd. of Mississauga, Ontario was used for this survey. Both in and out of phase readings were taken at 25 meter intervals on the grid lines. The transmitter station used was Cutler, Maine with a frequency of 17.8 KHz.

DISCUSSION OF RESULTS

Magnetic

The survey area is presented in plan form on seven maps at a scale of 1:2500. The corrected magnetic data is plotted on these maps and contoured at 200 gamma intervals where feasible. The datum was selected to be 59,000 gammas.

While no regional magnetic gradient is evident, the data does indicate a sequence of rocks that exhibit an east-west regional trend. East of line 21+00E, however, this trend bends east north-east. The sequence is magnetically heterogeneous although broad bands of rather quiet magnetics do exist. These areas probably represent thick flow sequences within the volcanic pile. The magnetic highs are narrow in width and are discontinuous along strike. Magnetic lows are intimately associated with these highs and are due to dipole effects. These highs probably represent interflow exhalative iron rich

units within the volcanogenic sequence.

Other magnetic lows found within the survey area and not associated with magnetic highs may be due to felsic intrusive rocks. This is definitely true of large areas located on the eastern portion of the grid.

One very prominent magnetic feature is located between lines 1+00E and 7+00E at about 8+00S to 9+00S. This feature seems to be quite isolated and could possibly represent the result of some sort of north-south tectonic movement.

Electromagnetic

The survey area is presented in plan form at a scale of 1:2500 on seven maps with a vertical scale set at 1 cm = 20% for the EM profiles. A second set of maps at the same scale presents the filtered data which is contoured at +20 intervals.

The numerous conductive trends located within the survey area conform, for the most part, to the regional magnetic trend and commonly are directly related to the magnetic features. A few trends, however, cut across strike at both north-east and north-west angles suggesting that the area has undergone east-west compressional forces. The origin of these features was probably con-

temporaneous with the emplacement of the felsic intrusive rocks found in the general area.

Some of the trends are traceable across the entire survey area although the conductivity is variable along strike. Many of the anomalies, however, tend to be discontinuous along strike while others pinch out completely.

The anomalies located in Sturgeon Lake under King's Bay and Shore's Bay commonly have moderate to good conductivity but no magnetic signature. Although these conductors may be lake bottom effect, their location relative to the volcanic-intrusive contact area, warrant them some consideration.

Many of the more prominent conductive trends are summarized below.

<u>ANOMALY</u>	<u>CONDUCTIVITY</u>	<u>MAGNETIC ASSOCIATION</u>	<u>COMMENTS</u>
A-A	Good	Strong	Sulphide horizon
B-B	Good	Strong	Sulphide horizon
B'-B'	Moderate-poor	Strong	Fault related?
B''-B''	Moderate	Strong	East extention B-B
B'''-B'''	Poor	Nil	Lake-swamp
C-C	Poor-good	Strong	
D-D	Poor-good	Nil-good	
E-E	Good	Strong	

<u>ANOMALY</u>	<u>CONDUCTIVITY</u>	<u>MAGNETIC ASSOCIATION</u>	<u>COMMENTS</u>
E'-E'	Poor	Strong	
F-F	Good	Nil	Lake bottom/contact?
G-G	Poor	Nil	Lake bottom
H-H	Poor	Nil	
I-I	Poor	Strong	
J-J	Poor	Nil	Lake bottom
K-K	Poor	Strong	
L-L	Poor	Nil	Creek
M-M	Moderate	Nil	Lake bottom
N-N	Moderate-good	Nil	Lake bottom/swamp
O-O	Poor	Nil	
O'-O'	Moderate-poor	Nil	Swamp/N-N extention?
P-P	Poor	Strong	Discontinuous
Q-Q	Poor	Nil	Discontinuous lake bottom/swamp
R-R	Good	Strong	
S-S	Moderate	Strong	Fault related?
T-T	Good	Nil	Lake bottom/contact?
F ₁ -F ₁	Poor	Nil	N 60° E fault
F ₂ -F ₂	Poor	Nil	N 60° E fault
F ₃ -F ₃	Poor-good	Strong	N 60° W fault
F ₄ -F ₄	Poor	Weak	N 45° W fault
F ₅ -F ₅	Poor	Weak	N 30° W fault
F ₆ -F ₆	Poor	Weak	N 30° W fault

Conclusions and Recommendations

The area is underlain by an east- west striking, near vertical dipping sequence of volcanogenic rocks. They consist for the most part of intermediate flows with minor tuffs and associated volcano-clastic sediments. This sequence has undergone minor regional east-west compressional forces which was contemporaneous with the emplacement of large felsic intrusives found in the general area. The magnetic and electromagnetic trends probably outline the more sulphide rich interflow exhalative sequences.

Detailed mapping and prospecting should be carried out in order to better evaluate the geophysical results. Since the main economic interest on the property is gold mineralization, geochemical sampling of a suitable nature may better define any gold bearing horizons not necessarily outlined by the geophysical methods used to date. A detailed, tightly controlled magnetic survey over a relatively small area around the discovery could possibly aid in any structural control interpretation of the gold mineralization.

Subsequent to the above recommendations a drill program should be considered to test the resulting target areas.

Nov 22/83



Submitted by
Phantom Exploration Services Ltd.
R. D. Middaugh
R. D. Middaugh Geologist

APPENDIX

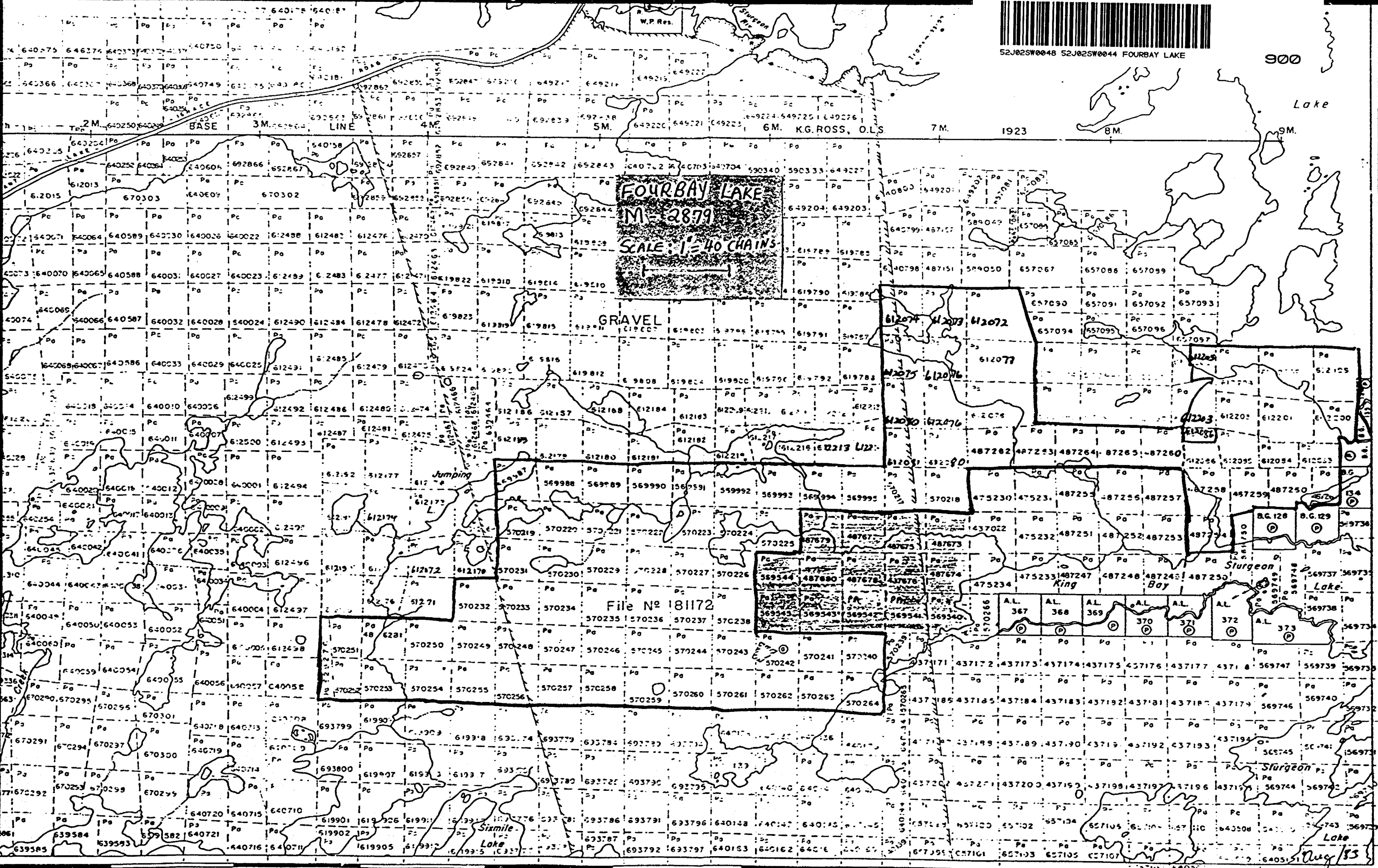
- Envelope 1. VLF Survey Profiles 7 Maps
- Envelope 2. VLF Survey Filtered Data 7 Maps
- Envelope 3. Magnetometer Survey 7 Maps



900

Lake

04'



FOURBAY LAKE
M-2879
SCALE: 1"=40 CHAINS

GRAVEL

File No 181172

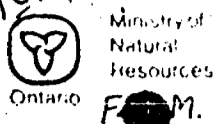
Sturgeon Lake

Aug 183

55' 54' 53' 52' 51' 50' 49' 48' 47' 46'

90045

To: **Group I** Due Date **Oct 15/83** **Dec 1972**



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

83-109

Instructions - Please type or print
- If number of mining claims traversed exceeds space on this form, attach a list
Note - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below

Mining Lands

The Mining Act

Type of Survey(s) **Geophysical Surveys, Mag and EM** Township or Area **Fourbay Lake, M-2879**
 Claim Holder(s) **Alan Best - George Armstrong & Armstrong - Fort Frances Ont.** Inspector's Licence No. **A Best - 52788**
 Address **A. Best - Savant Lake Ont.**
 Survey Company **Phanton Exploration Services Ltd.** Date of Survey (from & to) **No Vemhr. 92 APRIL - 83** Total Miles of line Cut **27.85 km**
 Name and Address of Author (of Geo-Technical report) **Rick Middaugh - RR #4, Alice Ave, Thunder Bay, Ont. P7B 5E5**

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
PA	612072	60			
	612073	60			
	612074	60			
	612075	60			
	612076	60			
	612077	60			
	612078	60			
	612079	60			
	612080	60			
	612081	60			
	612082	60			
	612083	60			
	612084	60			
	612085	60			
	612086	60			

RECEIVED
OCT 28 1983
MINING LANDS SECTION

PATRICIA MINING DIV.
RECEIVED
OCT 20 1983
A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ + 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Pa. 612072 Total number of mining claims covered by this report of work. **15**

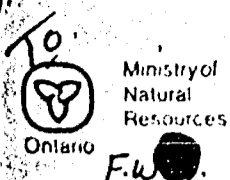
Date **Oct 13/83** Recorded Holder or Agent (Signature) **R.A. Bernatchez P. Eng.**

Total Days Cr. Recorded **900** Date Recorded **Oct. 20 1983** Mining Reporter **[Signature]**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying **Raymond A. Bernatchez, Steep Rock Resources Inc**
Atikokan Ontario Date Certified **Oct 13/83** Certified by (Signature) **R.A. Bernatchez P. Eng.**



Group II Due Date Nov 22/83
 Report of Work
 (Geophysical, Geological,
 Geochemical and Expenditures)

83-110

Instructions: Please type or print
 If number of mining claims traversed exceeds space on this form, attach list
 Note: Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns
 Do not use shaded areas below.

Dec 1984

Mining Lands

The Mining Act

Type of Survey(s): **Geophysical Survey - Mag and EM** Township or Area: **Fourbay Lake, M-2879**
 Claim Holder(s): **(Alan Best) George Armstrong (50-50) Option to Steep Rock (S-2788) A. Best.** Inspector's Licence No.:
 Address: **(Savant Lake, Ontario), Fort Frances, Ontario** 6 Armstrong R-1514
 Survey Company: **Phantom Exploration Services Ltd** Date of Survey (from & to): **Nov 82 March 1983** Total Miles of line Cut: **13.8 km**
 Name and Address of Author (of Geo-Technical report): **Rick Middaugh RR 4, Alice Ave. Thunder Bay Ontario P7B 5E5**

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

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
Pa	612199	60			
	612200	60			
	612201	60			
	612202	60			
	612203	60			
	612204	60			
	612205	60			

RECEIVED
 OCT 28 1983
 MINING LANDS SECTION

PATRICIA-MINING DIV.
 RECEIVED
 OCT 20 1983
 A.M. P.M.
 7:8 9:10:11:12: 1:2 3:4:5:6

Expenditures (excludes power stripping)
 Type of Work Performed:
 Performed on Claim(s):
 Calculation of Expenditure Days Credits
 Total Expenditures \$ + 15 = Total Days Credits
 Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

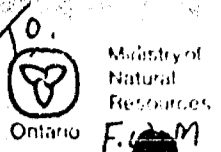
Pa. 612199 Total number of mining claims covered by this report of work: **7**

Date: **October 13/83** Recorded Holder or Agent (Signature): **R.A. Bernatchez, P. Eng.**

For Office Use Only
 Total Days Cr. Recorded: **420** Date Recorded: **Oct. 20 1983**
 Mining Recorder: **[Signature]**
 Date Approved of Records: **8.9.25**

Certification Verifying Report of Work
 I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **Raymond A Bernatchez, Steep Rock Resources Inc**
Atikokan Ontario Date Certified: **October 13/83** Certified by (Signature): **R.A. Bernatchez, P. Eng.**



Group III Due Date Jun 26/84

Decision

Report of Work (Geophysical, Geological, Geochemical and Expenditures)

#83-111

Instructions: - Please type or print... Note: - Only days credits calculated in the 'Expenditures' section may be entered in the 'Expend. Days Cr.' columns - Do not use shaded areas below

Mining Lands

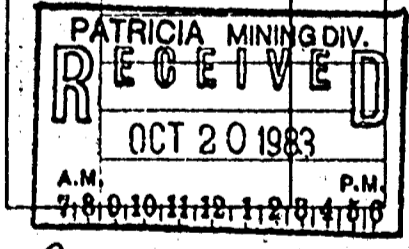
The Mining Act

Form header section containing: Type of Survey(s) Geophysical Surveys - Mag and E.M., Claim Holder(s) A. Best - G. Armstrong (50% each), Address, Survey Company Phantom Exploration Services Ltd., Date of Survey (from & to) Nov/82 April 83, Total Miles of line Cut 24.225 Km., Name and Address of Author (of Geo-Technical report) Rick Middaugh, RR #4, 736 Alice Ave. Thunder Bay, Ont. P7B 5E5

Table with columns: Special Provisions, Man Days, Airborne Credits, Geophysical, Geological, Geochemical, Days per Claim. Includes handwritten entries for Electromagnetic (20), Magnetometer (40), Radiometric, and other survey types.

Table with columns: Mining Claim Prefix, Mining Claim Number, Expend. Days Cr., Mining Claim Prefix, Mining Claim Number, Expend. Days Cr. Lists claim numbers 487254 through 487266 with 'Pa' prefix and '60' days credit.

Form section for Expenditures (excludes power stripping), Type of Work Performed, Performed on Claim(s), Calculation of Expenditure Days Credits (Total Expenditures \$ + 15 = Total Days Credits), Instructions: Total Days Credits may be apportioned at the claim holder's choice.



Total number of mining claims covered by this report of work. 10

Form section for Date (October 13/83) and Recorded Holder or Agent (Signature) R.A. Bernatchez, P. Eng.

Form section for For Office Use Only: Total Days Cr. Recorded 600, Date Recorded Oct. 20, 1983, Mining Recorder signature, Date Approved or Re-recorded 8/4/83.

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Form section for Name and Postal Address of Person Certifying: Raymond A Bernatchez Steep Rock Resources Inc, Atikokan, Ontario, P0T 1C0, Date Certified Oct 13/83, Certified by (Signature) R.A. Bernatchez, P. Eng.

Group IV Due Date July 7/86

Dec. 19th



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

83-112

Instructions: - Please type or print
If number of mining claims traversed
exceeds space on this form, attach a list
Note: - Only days credits calculated in the
"Expenditures" section may be entered in
the "Expend. Days Cr." columns.
- Do not use shaded areas below

Mining Lands

The Mining Act

Type of Survey(s) Geophysical Surveys, Mag and EM(VLF)	Township or Area Parry Sound 112029
Claim Holder(s) A Best G. Armstrong (50% each) Option to Steep Rock Res. Inc.	Prospector's Licence No. A Best 5-2788 G. Armstrong R-1869
Address A Best, Savant Lake Ont. G. Armstrong, Fort Frances Ont.	
Survey Company Phantom Exploration Services Ltd	Date of Survey (from & to) Nov 1 82 April 83
Total Miles of line Cut 15.675 Km.	
Name and Address of Author (of Geo-Technical report) Rick Middaugh, RR #4, 736 Alice Ave, Thunder Bay, Ont. P7B 5E5	

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

Mining Claims Traversed (List in numerical sequence)			Mining Claims Traversed (List in numerical sequence)		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
Pa	569987	60			
	569988	60			
	569989	60			
	569990	60			
	569991	60			
	569992	60			
	569993	60			
	569994	60			
	569995	60			
	486281	60			

RECEIVED

PATRICIA MINING DIV.
RECEIVED
OCT 20 1983
A.M. 7-8 P.M. 10-11-12-1-2-3-4-5-6

Pa. 486281

Total number of mining claims covered by this report of work. **10**

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ + 15 =

Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

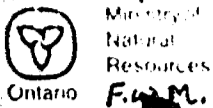
Total Days Cr. Recorded	Date Recorded	Mining Record
600	Oct. 20 1983	<i>[Signature]</i>
	Date Approved/Recorded	Branch Director
	84.4.25	<i>[Signature]</i>

Date **October 13/83** Recorded Holder or Agent (Signature) **R.A. Bernatchez, P. Eng.**

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
**Raymond A. Bernatchez, P. Eng. Steep Rock Resources Inc.
Atikokan, Ontario, P0T 1C0**

Date Certified **Oct 13/83** Certified by (Signature) **R.A. Bernatchez, P. Eng.**



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

Group V Due Date July 7/84

83-113
2.6160

Due 1984

Mineral Rights

The Mining Act

Instructions
Note: Expenditures are calculated in the "Expend. Days Cr." columns. Do not use shaded areas below.

Type of Survey(s) Geophysical Survey, Mag and E.M. Township or Area Four Bay Lake - M-2879
 Claim Holder(s) A. Best - G. Armstrong (50-50) Proprietor's Licence No. A. BEST S 2788
G. ARMSTRONG R-1869
 Address A Best - Savant Lake, Ont. G. Armstrong, Fort Frances, Ontario
 Survey Company Phantom Exploration Services Ltd Date of Survey (From & to) Nov 82 April 83 Total Miles of line Cut 74.9 Km
 Name and Address of Author (of Geo-Technical report) Rick Middaugh, RR #4, 736 Alice Ave, Thunder Bay Ont. P7B 5E5

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

Mining Claims Traversed (List in numerical sequence)		
Prefix	Number	Expend. Days Cr.
PA	570217	60
	570218	60
	570219	60
	570220	60
	570221	60
	570222	60
	570223	60
	570224	60
	570225	60
	570226	60
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	570257	60
	570258	60
	570259	60
	570260	60
	570261	60
	570262	60
	570263	60
	570264	60
	570265	60
	570266	60

Expenditures (excludes PATRICIA MINING DIV.)
 Type of Work Performed **RECEIVED**
 Performed on Claim(s) OCT 20 1983
 A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.
 Calculation of Expenditure Days Credits:
 Total Expenditures \$ 15 = Total Days Credits 15

P. 569987 Total number of mining claims covered by this report of work. **48**

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only
 Total Days Cr. Recorded 2880 Date Recorded Oct. 20, 1983 Mining Recorder [Signature]
 Date Approved as Recorded Oct. 23 Branch Director [Signature]

Date October 13/83 Recorded Holder or Agent (Signature) R. A. Bernatchez, P. Eng.

Certification Verifying Report of Work
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying Raymond A. Bernatchez, P. Eng. Steep Rock Resources Inc
Atikokan, Ontario, P0T-1C0 Date Certified October 13/83 Certified by (Signature) R. A. Bernatchez, P. Eng.



Ministry of
Natural
Resources

Geotechnical
Report
Approval

File
2.61160

Mining Lands Comments

These maps have not been reviewed by the Mining Lands Section.

- maps not signed claim lines and numbers missing

To: Geophysics *Mr. R. Barlow.*

Comments

[Handwritten signature]

Approved

Wish to see again with corrections

Date
Jan 21/84

Signature
R Barlow

To: Geology - Expenditures

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

L.D.

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

	m	em		m	em	
570217	✓	✓	570249	✓	✓	
18	✓	✓	50	✓	✓	
19	✓	✓	51	✓	✓	
20	✓	✓	52	✓	✓	
21	✓	✓	53	✓	✓	
22	✓	✓	54	✓	✓	
25	✓	✓	55	✓	✓	
24	✓	✓	56	✓	✓	
25	✓	✓	57	✓	✓	
26	✓	✓	58	✓	✓	
27	✓	✓	59	✓	✓	
28	✓	✓	60	✓	✓	
29	✓	✓	61	✓	✓	
30	✓	✓	62	✓	✓	
31	✓	✓	63	✓	✓	
32	✓	✓	64	✓	✓	
33	✓	✓	66	✓	✓	
34	✓	✓	569987	✓	✓	
35	✓	✓	88	✓	✓	
36	✓	✓	89	✓	✓	
37	✓	✓	90	✓	✓	
38	✓	✓	91	✓	✓	
40	✓	✓	92	✓	✓	
41	✓	✓	93	✓	✓	
42	✓	✓	94	✓	✓	
43	✓	✓	95	✓	✓	
44	✓	✓	486281	✓	✓	
45	✓	✓				
46	✓	✓				
47	✓	✓				
48	✓	✓				

pull

m em

m em

2.6160

	m	em		m	em	
487254	✓	✓	612095'	✓	✓	
58	✓	✓	86	✓	✓	
59	✓	✓				
60	✓	✓				
61	✓	✓				
62	✓	✓				
63	✓	✓				
64	✓	✓	570998	✓	✓	
65'	✓	✓	992	✓	✓	
66	✓	✓	97	✓	✓	
			96	✓	✓	
612199	✓	✓	93	✓	✓	
200	✓	✓	94	✓	✓	
201	✓	✓	95	✓	✓	
202	✓	✓				
203	✓	✓				
204	✓	✓				
205'	✓	✓				
612072	✓	✓				
73	✓	✓				
74	✓	✓				
75'	✓	✓				
76	✓	✓				
77	✓	✓				
78	✓	✓				
79	✓	✓				
80	✓	✓				
81	✓	✓				
82	✓	✓				
83	✓	✓				
84.	✓	✓				

STEEP ROCK RESOURCES INC.
40 UNIVERSITY AVENUE, SUITE 710
TORONTO, ONTARIO
M5J 2G5

December 6, 1983

Mr. E. F. Anderson, Director
Land Management Branch
Whitney Block Room 6550
Queen's Park
Toronto, Ontario
M7A 1W3

Re: Geophysical reports (Magnetic and Electro-
magnetic) on mining claims 612072 et al; Group
I, II, III, IV, and V in the Fourbay Lake area,
Claim Map M-2879

Dear Sir:

We are submitting the geophysical reports as per work reports submitted October 20, 1983 on Group I, II, III, IV, and V for your evaluation. We have enclosed a claim boundary sketch of our property located in the King Bay area with the reports. We have plotted the location of the claim post on one set of magnetic survey maps identified as Set I.

Yours truly,

R. A. Bernatchez, P. Eng.

R. A. Bernatchez, P. Eng
Geologist

RAB*blk
Encls.

RECEIVED

DEC 14 1983

MINING LANDS SECTION

1983 12 21

Your File: 109,110,111,112,113

Our File: 2.6160

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims PA 486281 et al in the Area of Fourbay Lake.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-1380

A. Barr:mc

cc: A. Best
Savant Lake, Ontario
POV 2S0

cc: R.A. Bernatchez P. Eng.
Atikokan, Ontario
POT 1C0

cc: G. Armstrong
707 Victoria Avenue
Fort Frances, Ontario
PBA 2C9

Dec. 28, 1983 M. Anderson.

Initial Check.

Assessed

Approved Reports of Work
sent out

Notice of Intent filed

Approval after Notice of Intent
sent out

Duplicate sent to Resident
Geologist

Duplicate sent to A.F.R.O.

March 13, 1984.

Mr. G. Armstrong
707 Victoria Avenue
Fort Frances, Ontario
P9A 2C9

Dear Sir:

RE: Geophysical (Electromagnetic and Magnetometer) Survey
submitted on Mining Claims 486281 et al in the
Area of Fourbay Lake.

Enclosed are the plans, in duplicate, for the above-mentioned survey. Please have the author of the report date and sign each map and show all claim lines and claim numbers. Please return all maps to this office as soon as possible.

For further information, please contact Mr. F.W. Matthews at
(416) 965-6918.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-6918

cc: Mining Recorder
Sioux Lookout, Ontario

M.E. Anderson:dg

2. 6. 1984

STEEP ROCK RESOURCES INC.
40 UNIVERSITY AVENUE, SUITE 710
TORONTO, ONTARIO
M5J 2G5

Atikokan, Ontario
April 13, 1984

Mr. S. E. Yundt, Director
Land Management Branch
Whitney Block Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir:

Re: Geophysical (Electromagnetic and Magnetometer)
Survey submitted on mining claims PA 486281 et al
in the area of Four Bay Lake M 2879

Enclosed are plans in duplicate for the above-mentioned survey showing the author's signature, date and all claim lines and numbers.

Mr. Armstrong forwarded these reports to our field office in Atikokan to carry out the instructions given in your letter of March 13, 1984. I have personal knowledge of all the work carried out on the property since our option.

Yours truly,

Raymond A. Bernatchez, P.Eng.

Raymond A. Bernatchez, P.Eng
Geologist

RAB*blk
Enclosures

RECEIVED

APR 19 1984

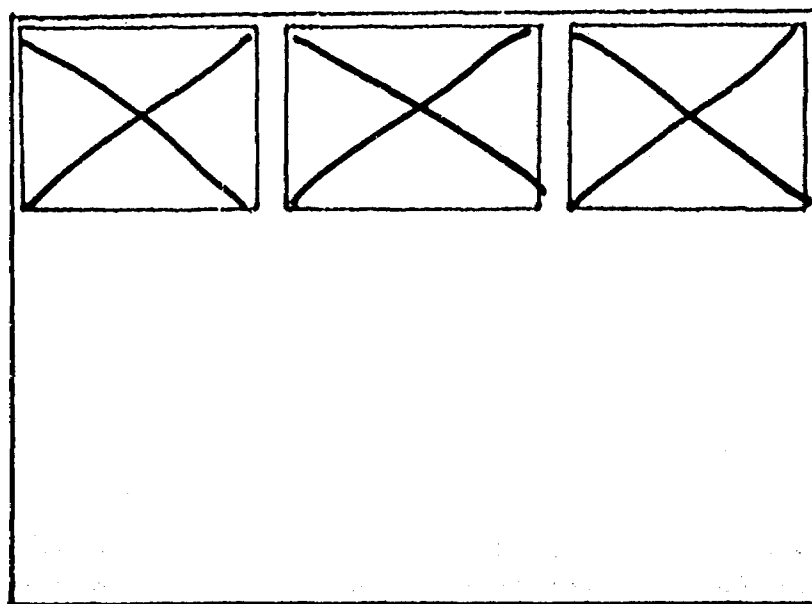
MINING LANDS SECTION

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

52J/02SW-0044# 1-2

LOCATED IN THE MAP
CHANNEL IN THE
FOLLOWING SEQUENCE

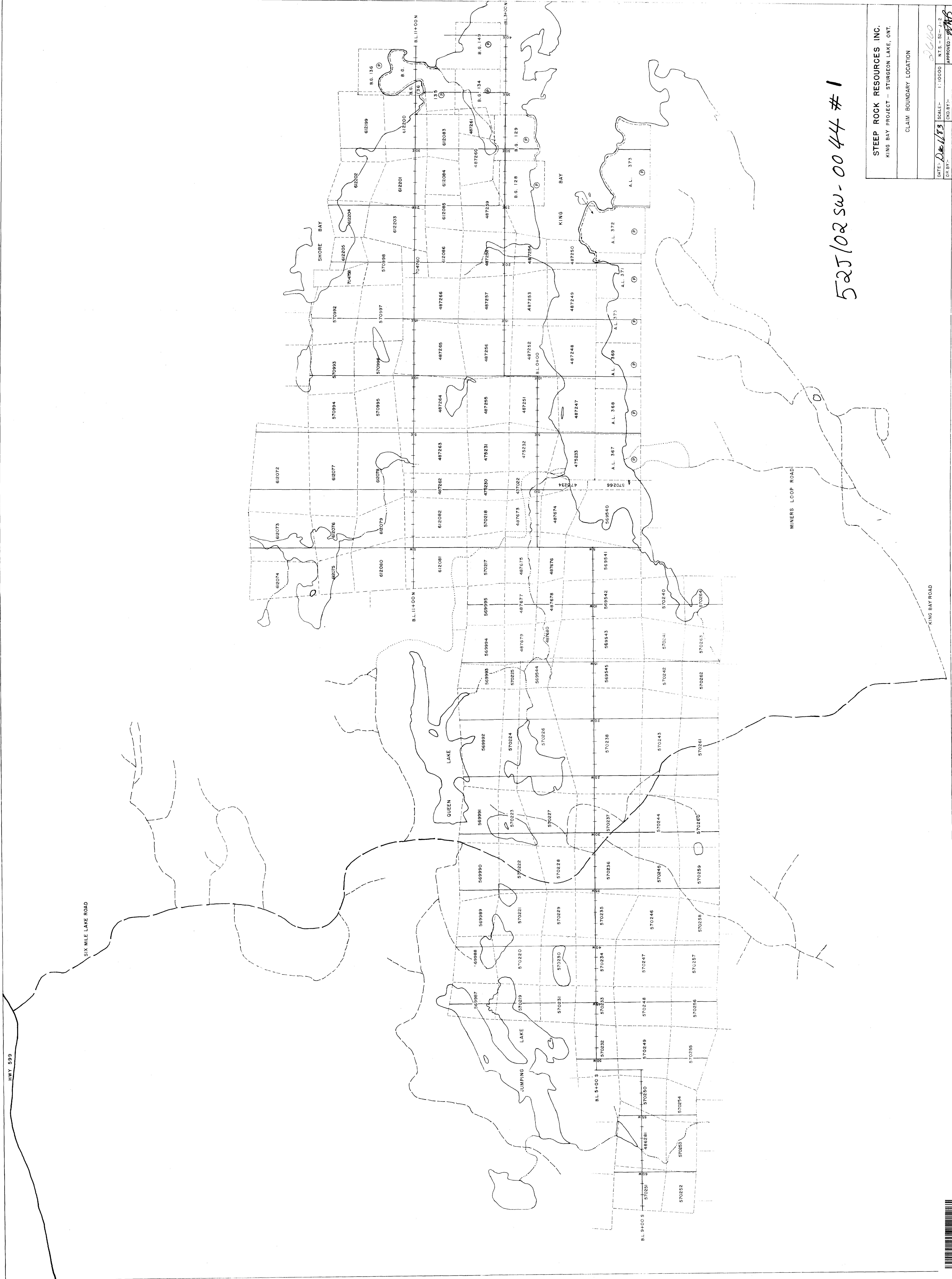
(X)



**FOR ADDITIONAL
INFORMATION**

SEE MAPS:

52J/02 SW - 0044 # 3-15

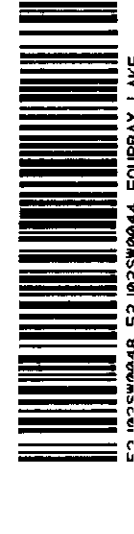


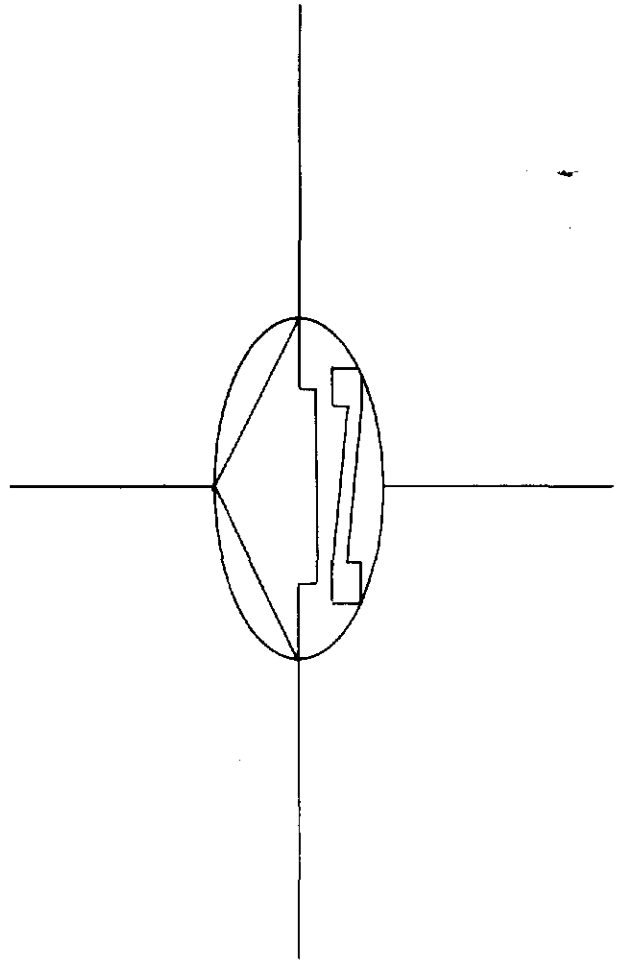
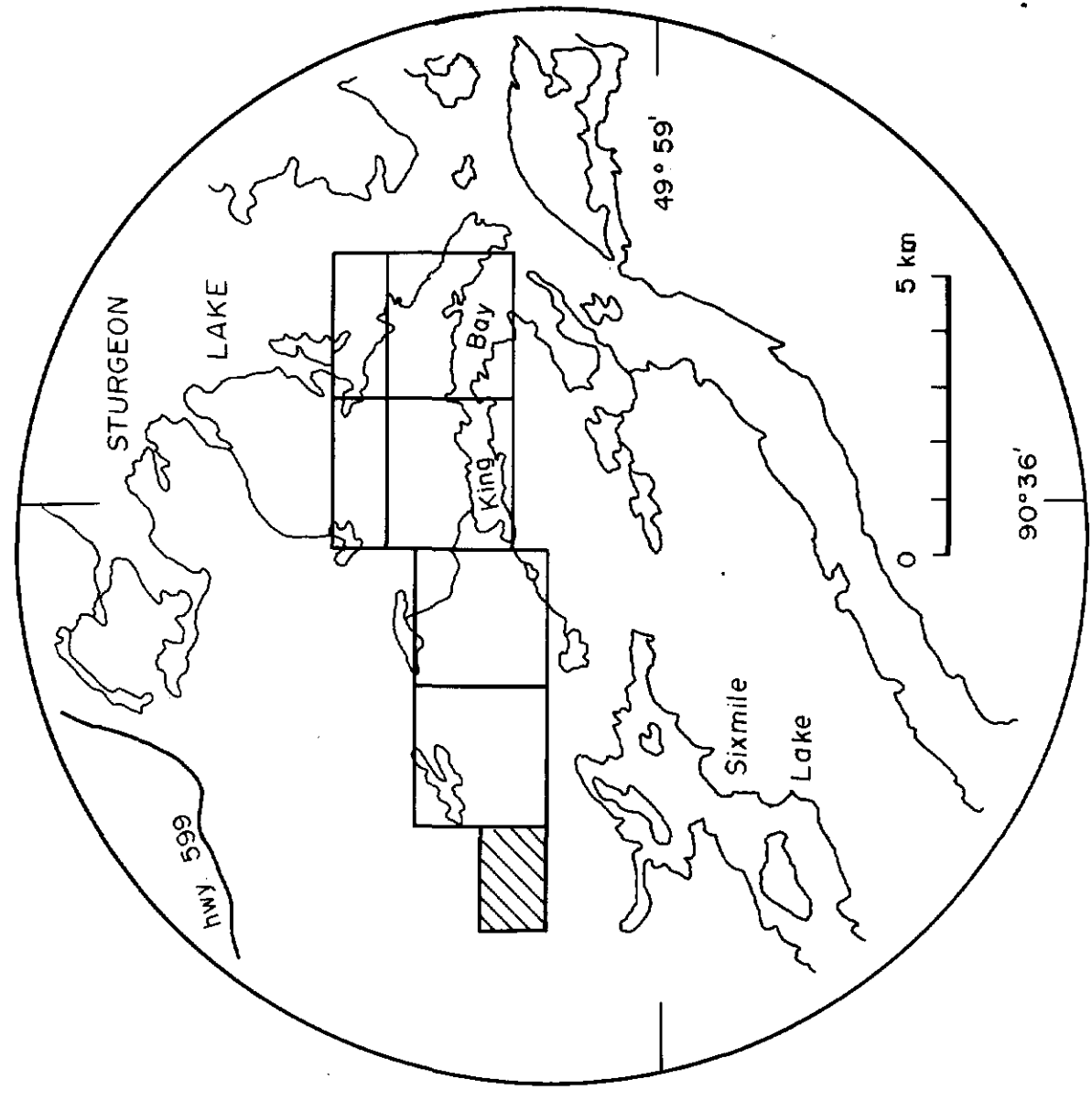
52J/02sw-0044 #1

STEEL ROCK RESOURCES INC.
 KING BAY PROJECT - STURGEON LAKE, ONT.

CLAIM BOUNDARY LOCATION

DATE: Dec 1/83 SCALE: 1:10000 N.T.S. - S2 - J-2
 DR BY: CKC/BY APPROVED: *[Signature]*



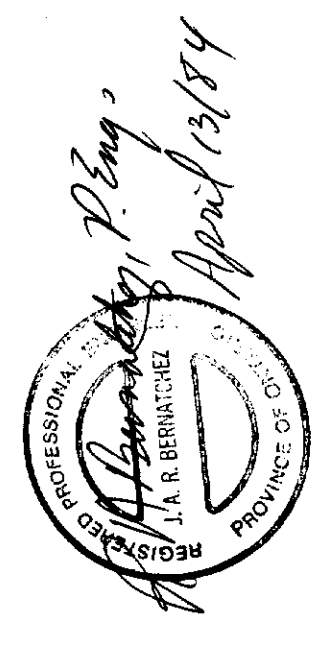


MAGNETOMETER SURVEY
 INSTRUMENT: SCINTREX MP-2 PROTON MAG.
 DATUM: 59,000
 CONTOUR INTERVAL: < 2000 at 200, > 2000 at 500
 MAGNETIC LOW:

BASE STATION RECORDER INFORMATION:
 INSTRUMENT: SCINTREX MBS-2
 RECORDING RANGE: 100 at
 RECORDING INTERVAL: 10 SECONDS
 CHART SPEED: 20 MM / HR

V.L.F. SURVEY
 INSTRUMENT: GEONICS EM-16
 TRANSMITTER STATION: CUTLER, MAINE
 INPHASE READINGS:
 OUT OF PHASE READINGS:
 PROFILE SCALE: 1cm = 20%
 CONDUCTOR AXIS:
 POSITIVE READINGS: EAST OF LINE
 CONTOUR INTERVAL: 20

TOPOGRAPHY
 SHORE:
 ROAD:
 CLAIM POST:

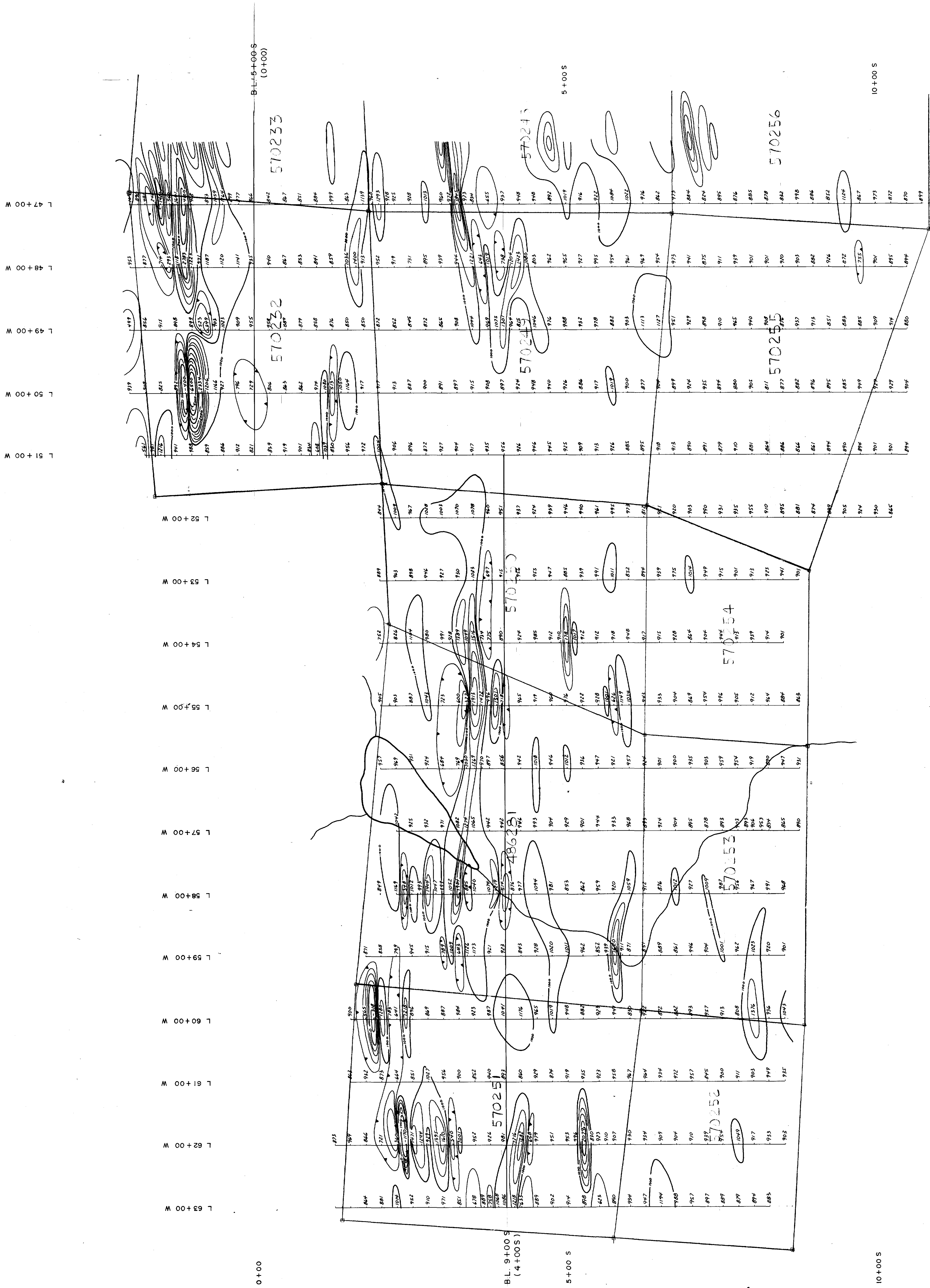


STEEP ROCK IRON MINES LIMITED
 ATIKOKAN, ONTARIO

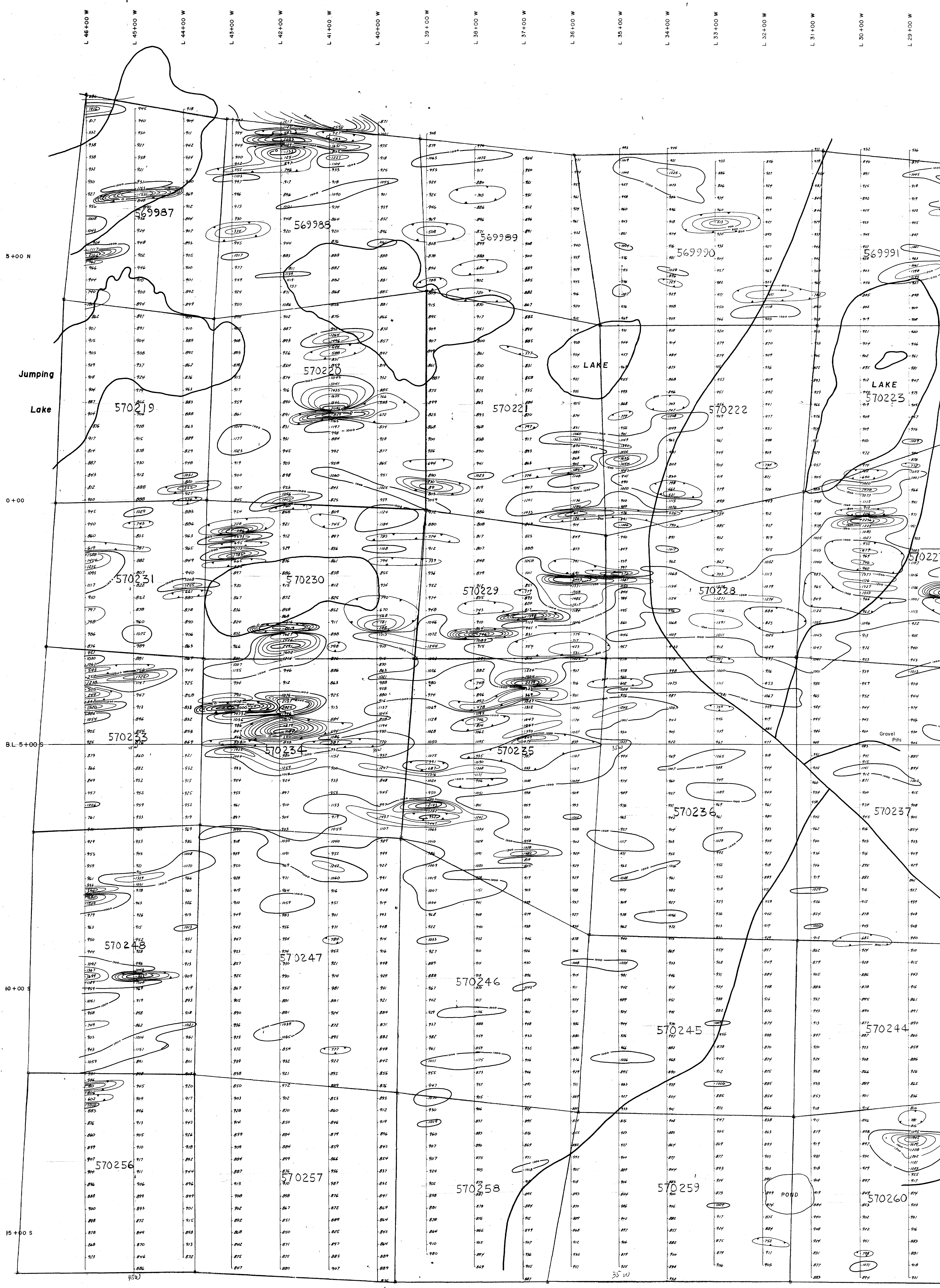
King's Bay Project
 STURGEON LAKE AREA

MAGNETOMETER SURVEY

Date: May, 1983 Scale: 1:2500 N.T.S.: 82-J-2
 PHANTOM EXPLORATION SERVICES LTD.

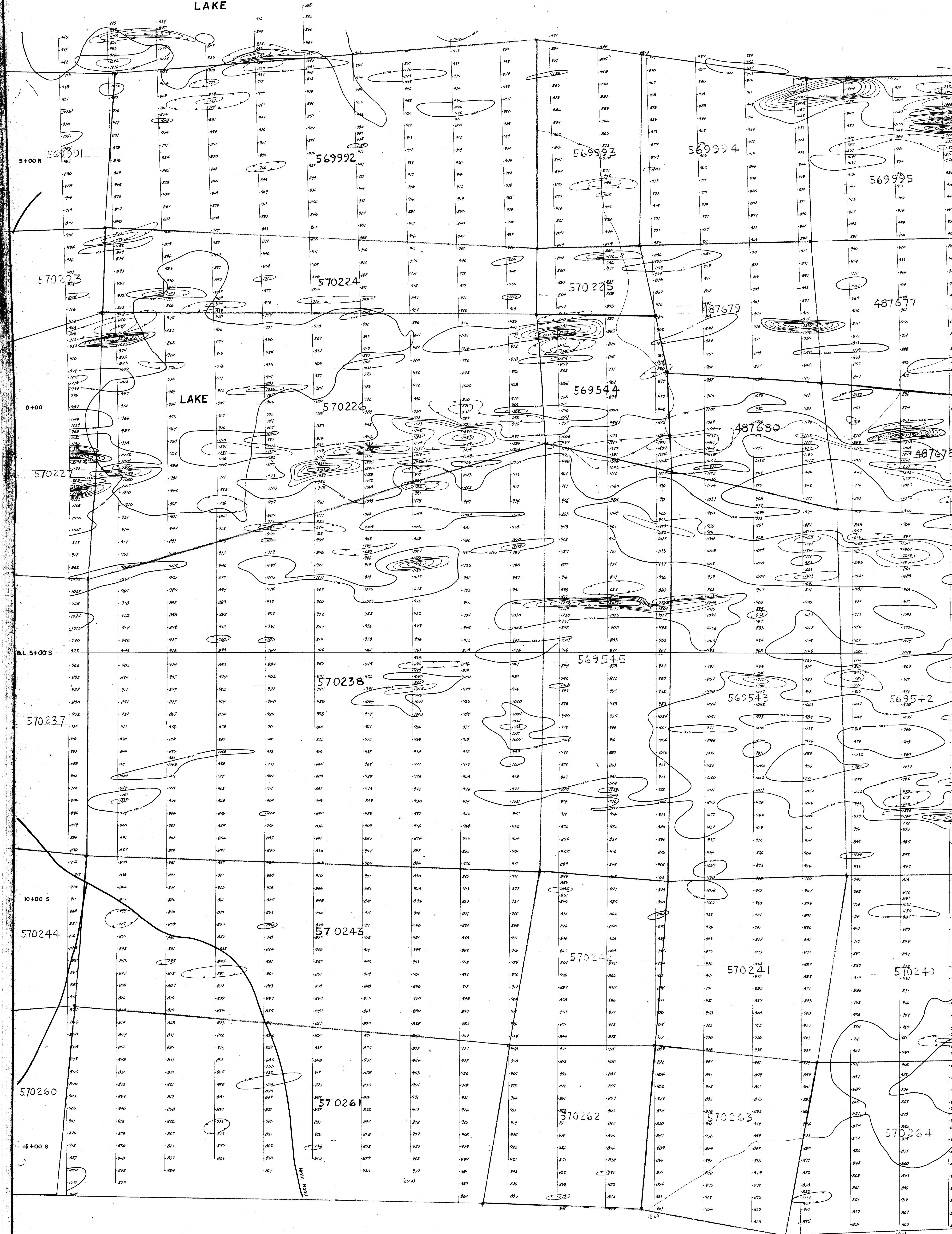


52J/02 SW -0044 #2



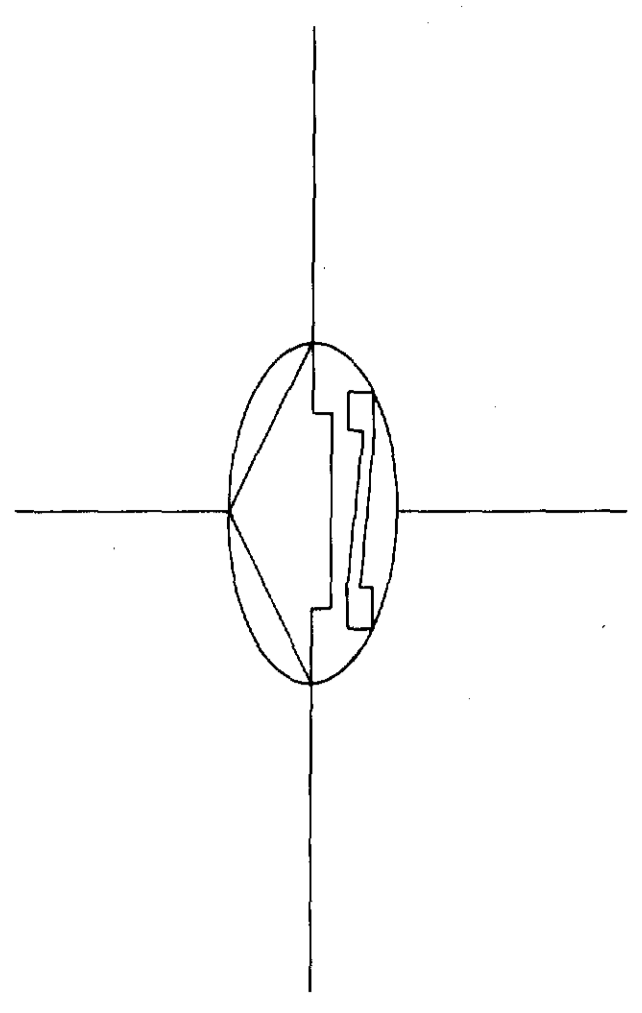
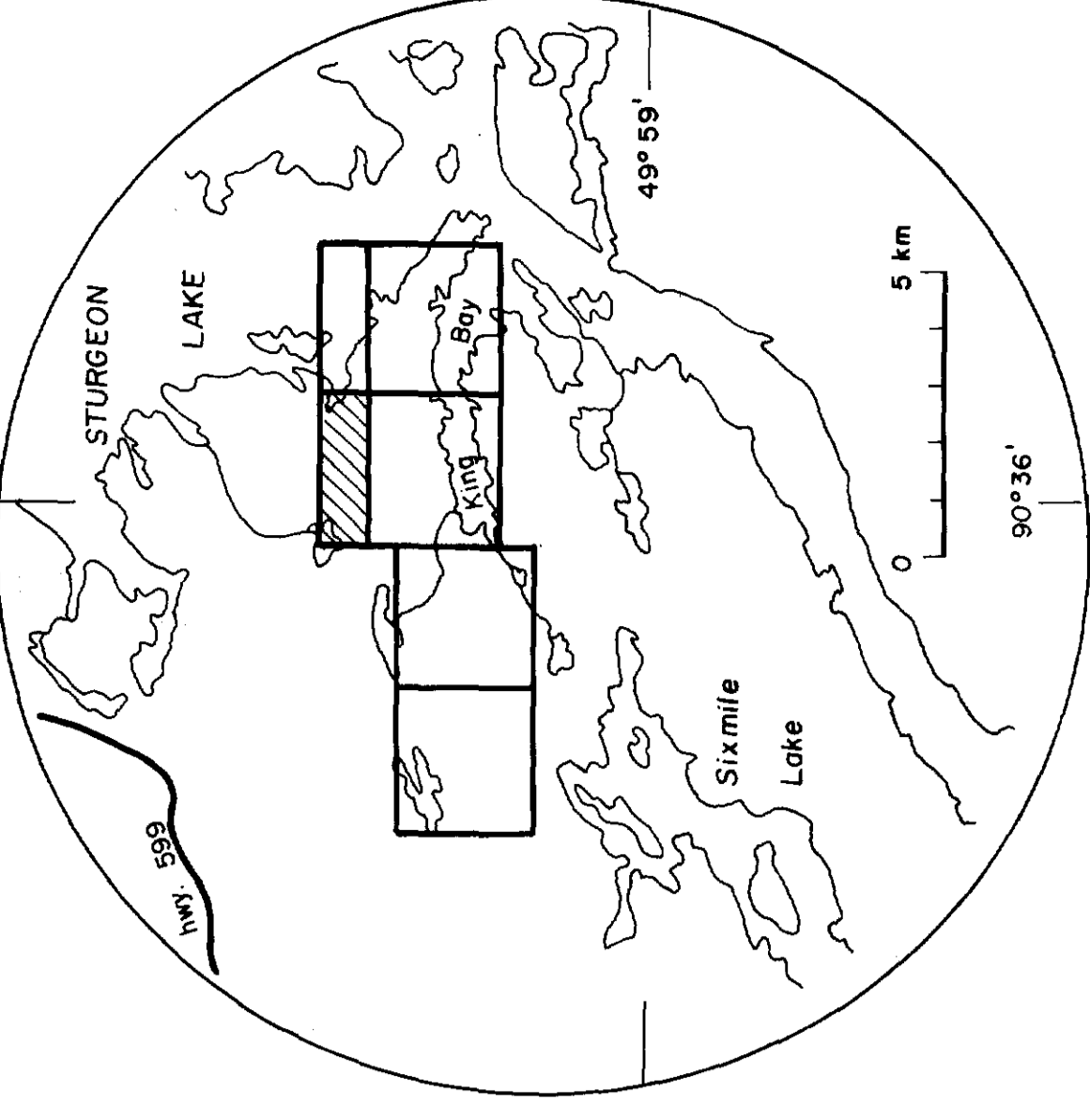
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LAKE



52J102SW-004



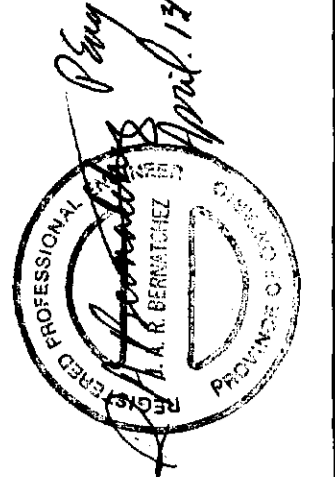


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 DATUM: 55,000
 CONTOUR INTERVAL: 2000 at 200 G; > 2000 at 500 G
 MAGNETIC LOW: \ominus

BASE STATION RECORDER INFORMATION:
 INSTRUMENT: EM-6
 PROFILE RANGE: 100 G
 RECORDING INTERVAL: 10 SECONDS
 CHART SPEED: 20 MM/HR

V.L.F. SURVEY
 INSTRUMENT: GEONICS EM-6
 BASE STATION: CUTLER, MAINE
 PROFILE SCALE: 1 cm = 20 %
 CONDUCTOR AXIS: EAST OF LINE
 CONTOUR INTERVAL: 20

TOPOGRAPHY
 SOILS
 ROADS
 CLAIM POST: \ominus

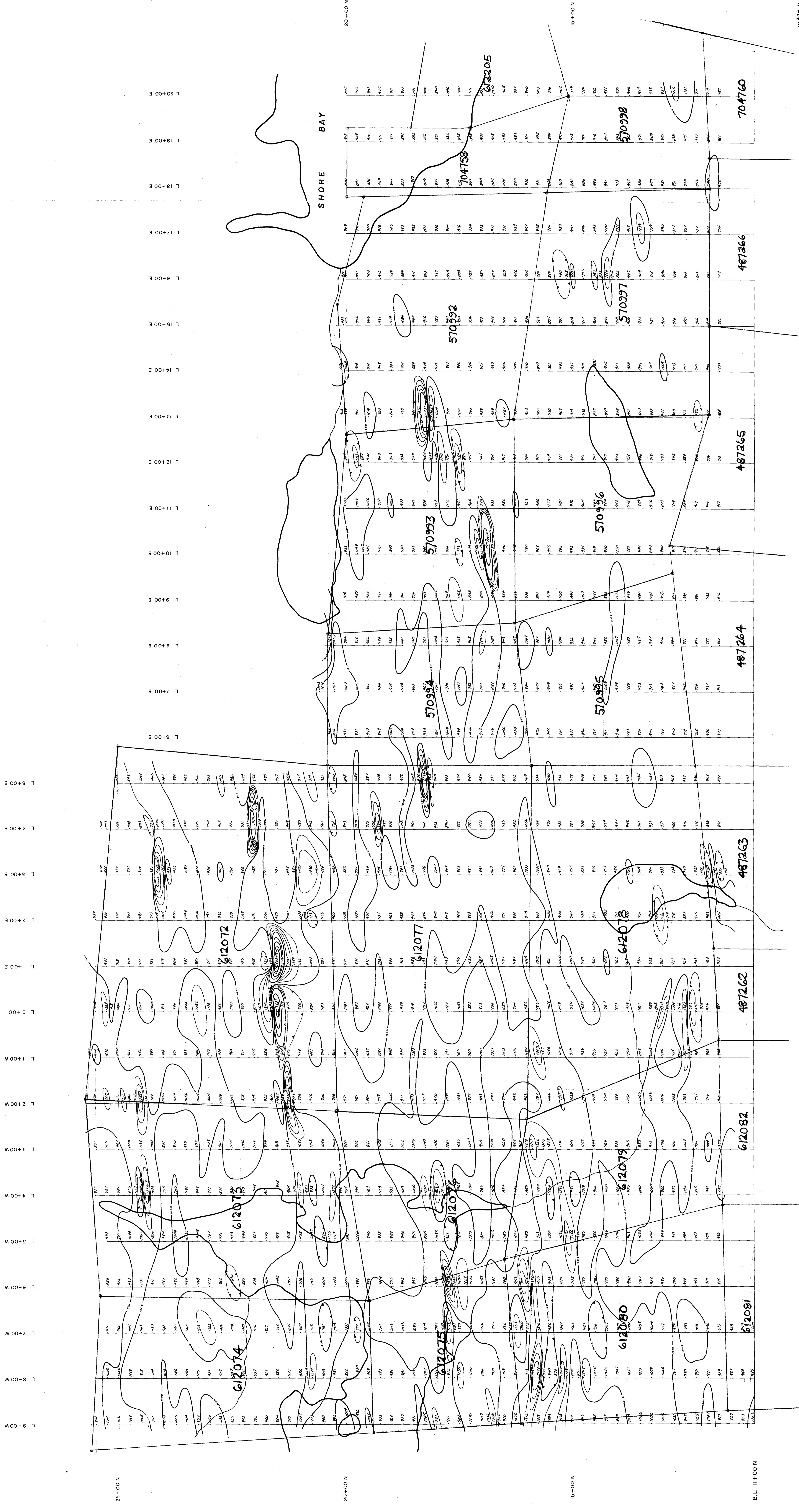


STEEP ROCK IRON MINES LIMITED
 ATKOKAN, ONTARIO

King's Bay Project
 STURGEON LAKE AREA

MAGNETOMETER SURVEY

DATE: May, 1983 SCALE: 1:2500 INT. S. 82-J-2
 PHANTOM EXPLORATION SERVICES LTD.



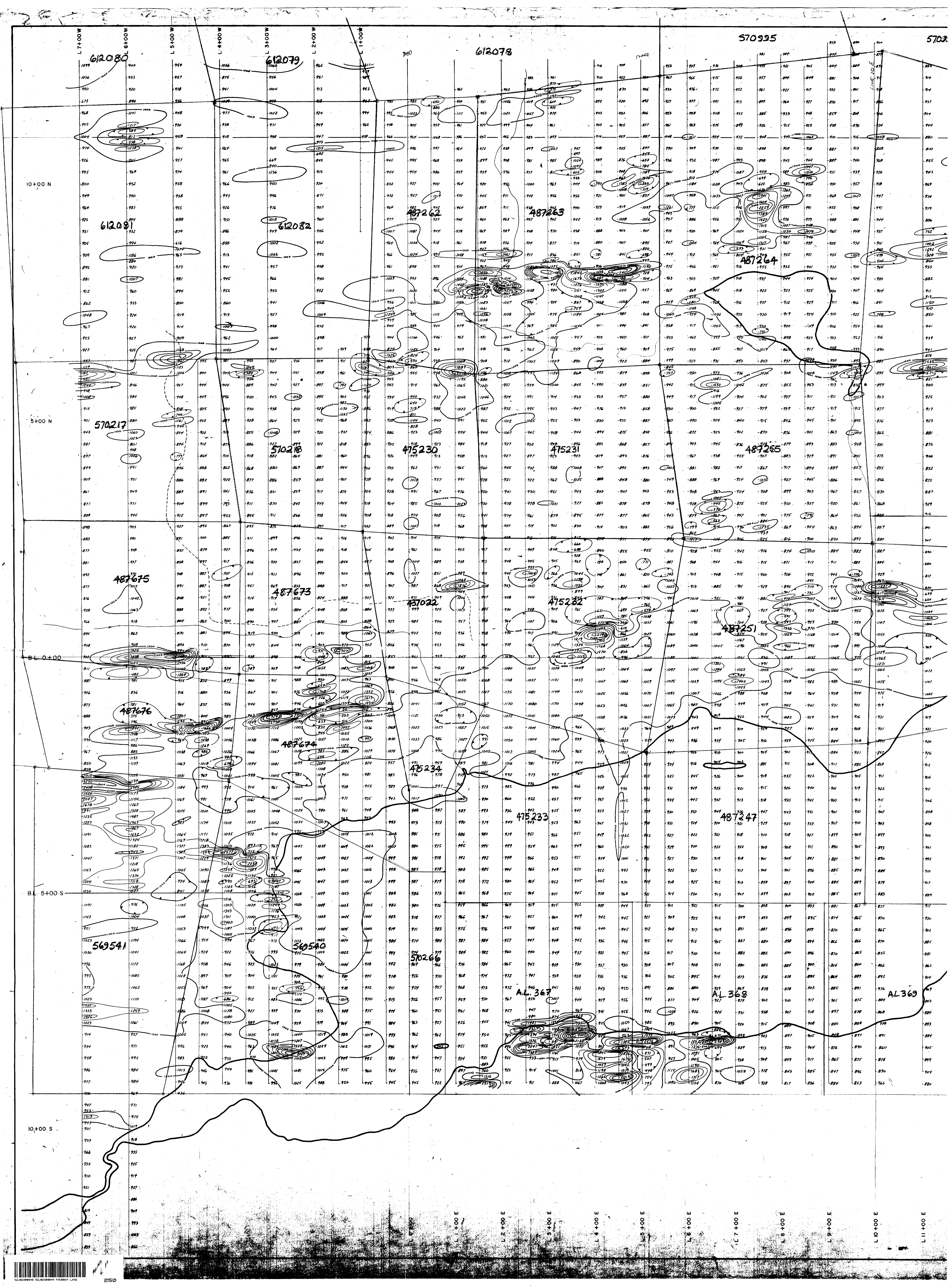
525/02sw-0044 #5

525/02sw-0044 #5

10400 N

10400 N

B.L. 11+00 N



10+00 N

5+00 N

BL 0+00

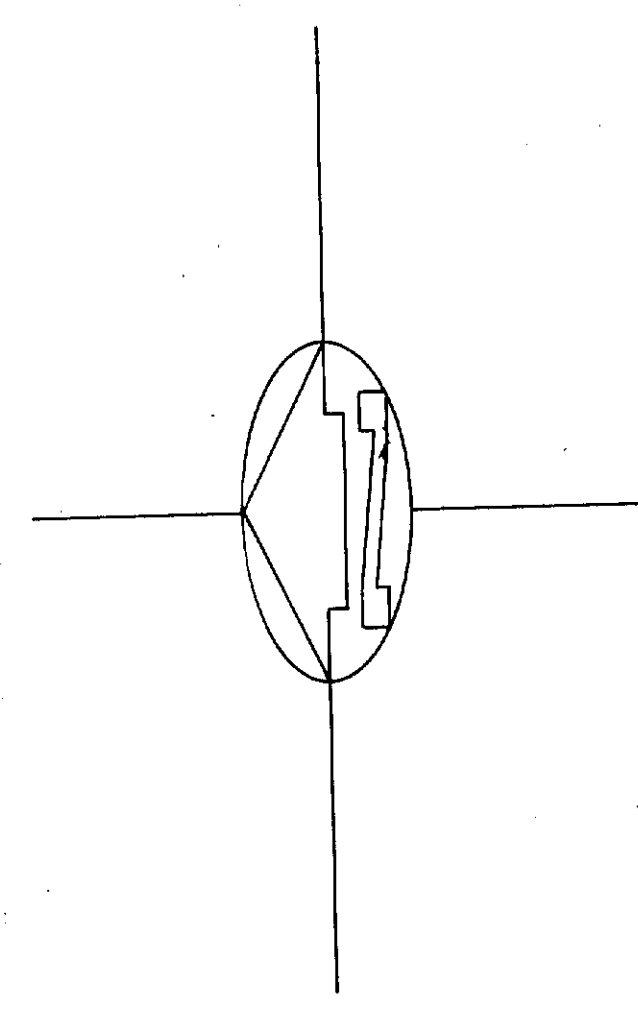
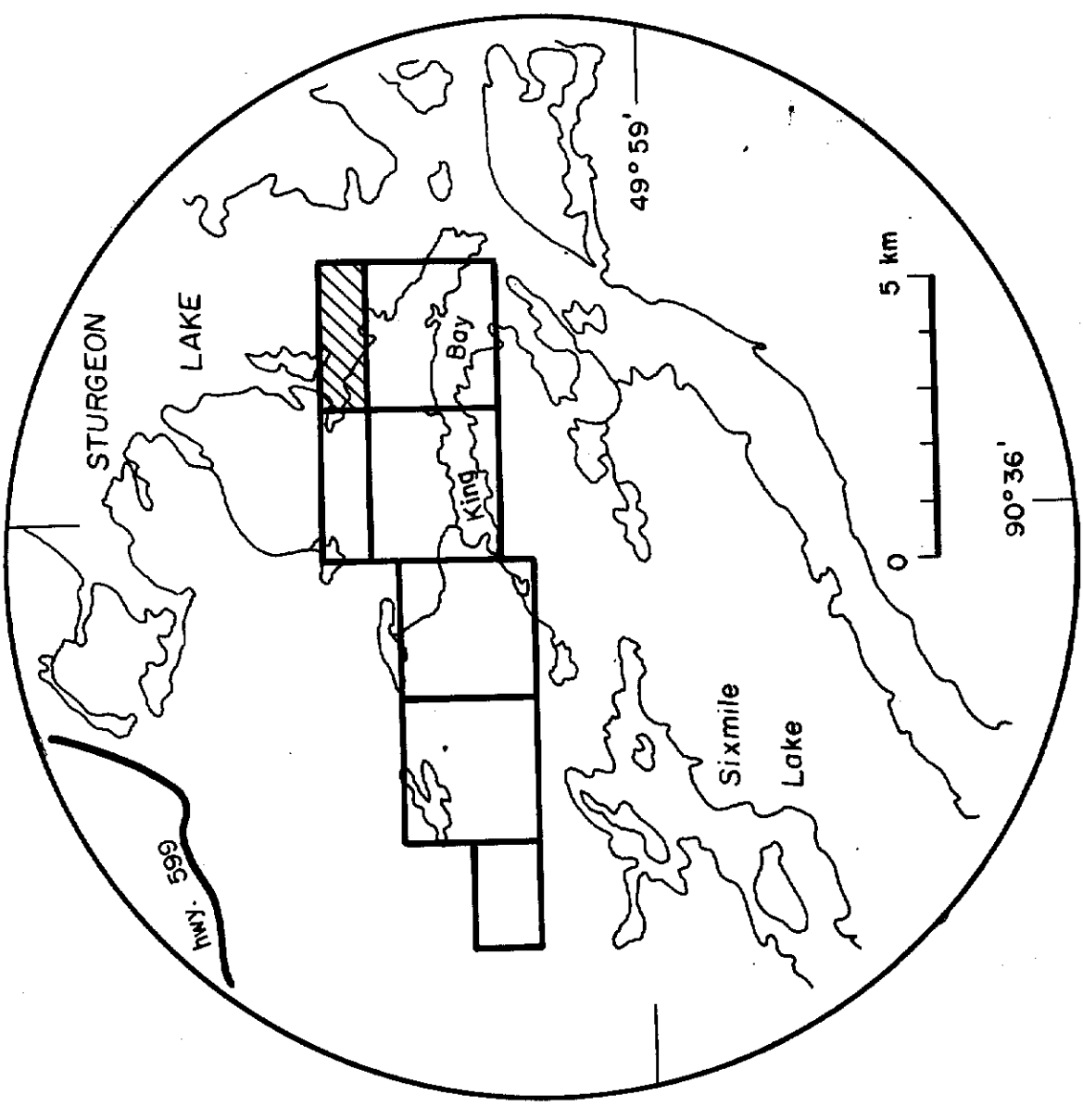
BL 5+00 S

10+00 S

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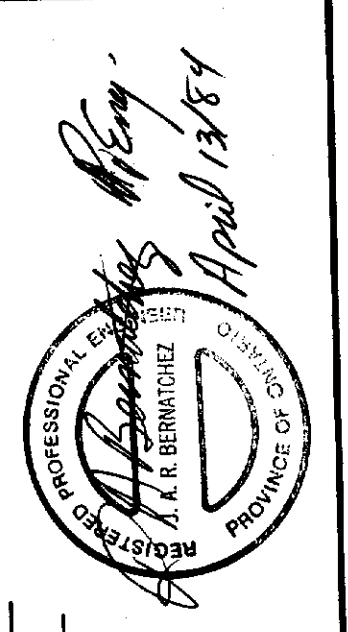


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 MAGNETIC LOW:

BASE STATION RECORDER INFORMATION:
 INSTRUMENT: SCINTREX MBS-2
 RECORDER RANGE: 100 <
 RECORDING INTERVAL: 10 SECONDS
 CHART SPEED: 20 MM / HR

V.L.F. SURVEY
 INSTRUMENT: GEONICS EM-6
 TRANSMITTER STATION: CUTLER, MAINE
 INPHASE READINGS:
 OUT OF PHASE READINGS:
 PROFILE SCALE: 1 cm = 20 %
 CONDUCTOR AXIS: EAST OF LINE
 POSITIVE READINGS: EAST OF LINE
 CONTOUR INTERVAL: 20

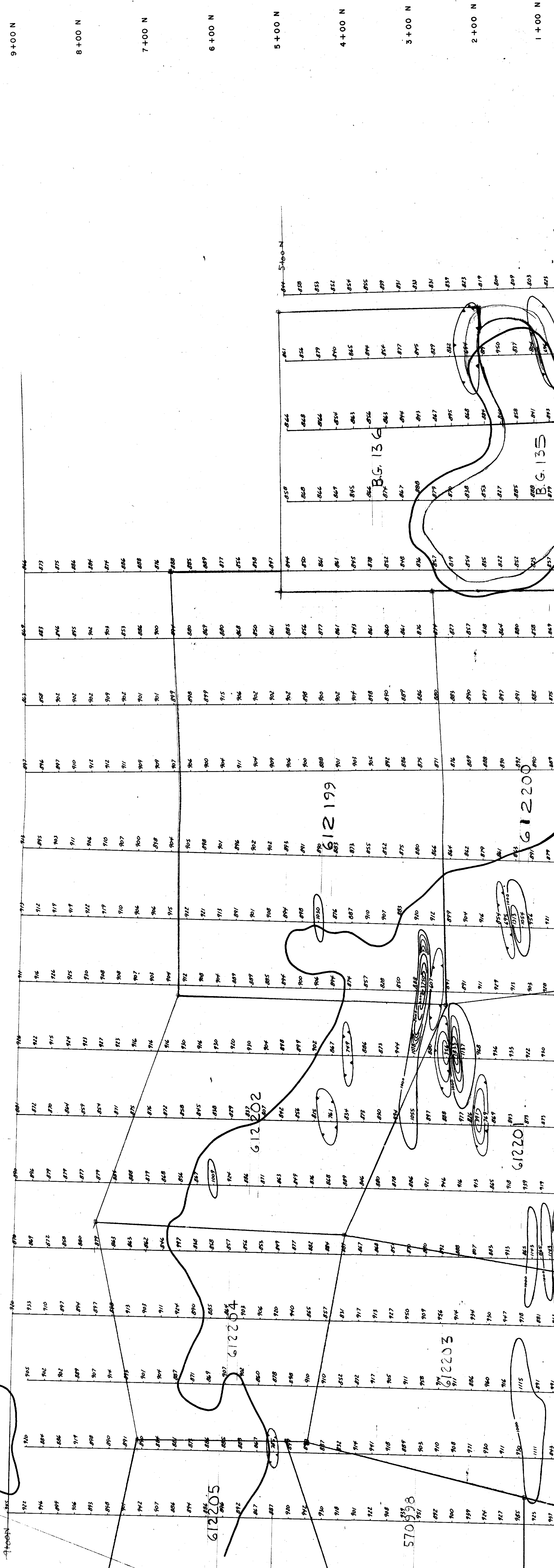
TOPOGRAPHY
 SHORE:
 ROAD:
 CLAIM POST:



STEEP ROCK IRON MINES LIMITED
 ATIKOKAN, ONTARIO
 King's Bay Project
 STURGEON LAKE AREA
MAGNETOMETER SURVEY
 Date: May, 1983 | Scale: 1:2500 | N.T.S. 52-J-2
 PHANTOM EXPLORATION SERVICES LTD.

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L 38+00 E
L 39+00 E

STURGEON LAKE



704760

525/02 SW-0044 # 7

510998

B.G. 135

704760

61203

61201

61200

B.G. 136

B.G. 135

612086

612085

612084

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B.G. 134

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487261

PLAN

487254

B.G. 138

B.G. 129

487250

KING'S BAY

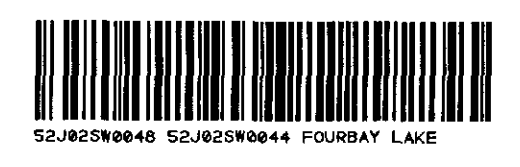
PLAN

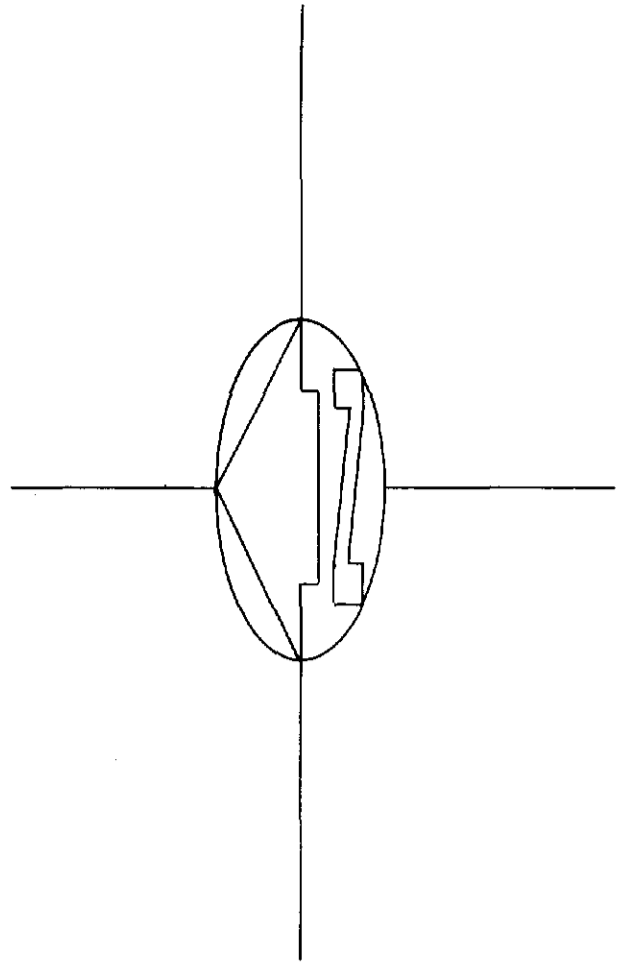
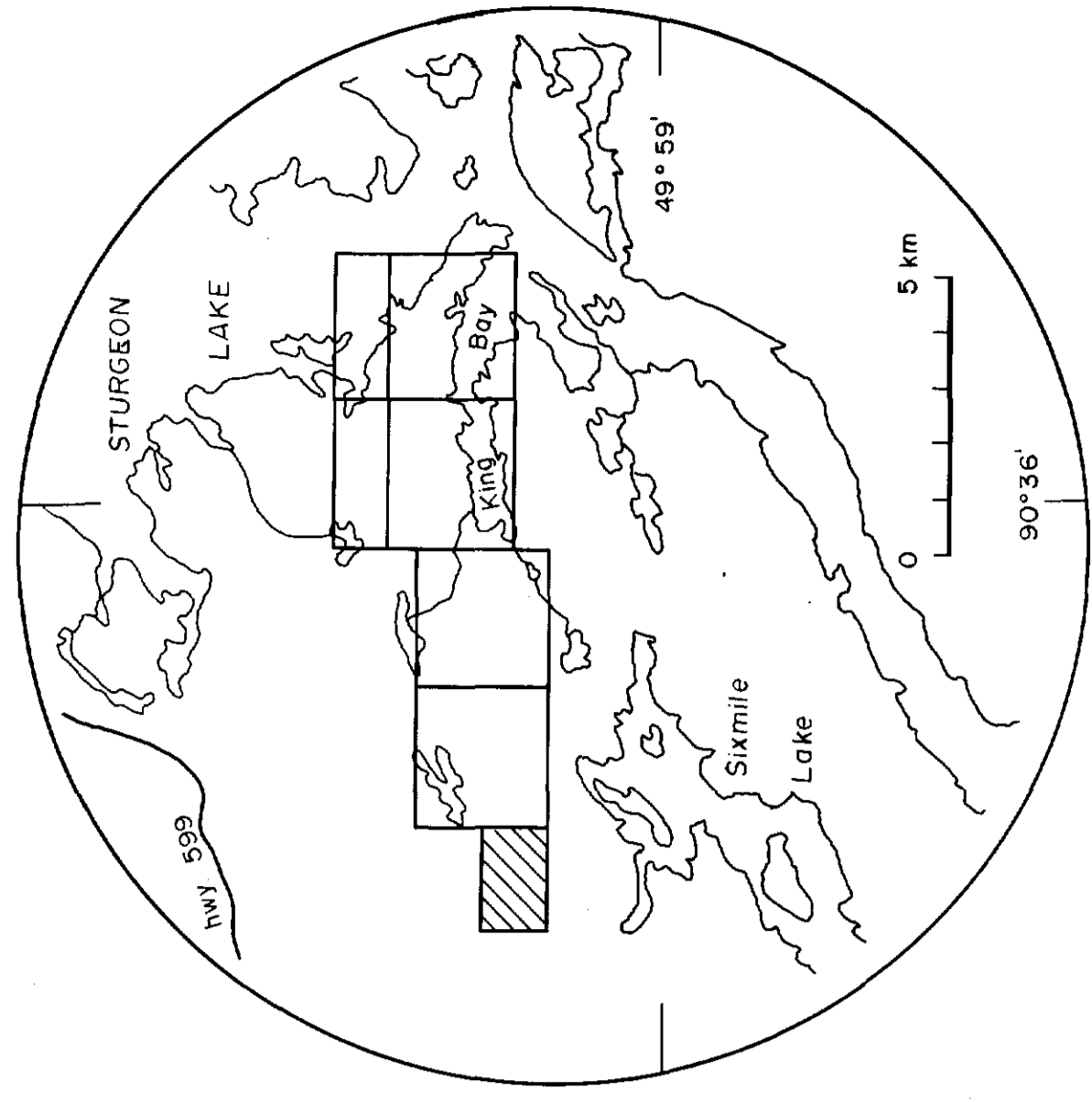
A.L. 371

A.L. 372

A.L. 373

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- L 38+00 E





MAGNETOMETER SURVEY
 INSTRUMENT: SCINTREX MP-2 PROTON MAG.
 DATUM: 59,000
 CONTOUR INTERVAL: $2000 \times \text{at } 200 ; >2000 \times \text{at } 500$
 MAGNETIC LOW:

BASE STATION RECORDER INFORMATION:
 INSTRUMENT: SCINTREX MBS-2
 RECORDING RANGE: 100 \times
 RECORDING INTERVAL: 10 SECONDS
 CHART SPEED: 20 MM / HR

V.L.F. SURVEY
 INSTRUMENT: GEONICS EM-16
 TRANSMITTER STATION: CUTLER, MAINE
 INPHASE READINGS:
 OUT OF PHASE READINGS:
 PROFILE SCALE: 1cm = 20%
 CONDUCTOR AXIS:
 POSITIVE READINGS: EAST OF LINE
 CONTOUR INTERVAL: 20

TOPOGRAPHY
 SHORE:
 ROAD:
 CLAIM POST:

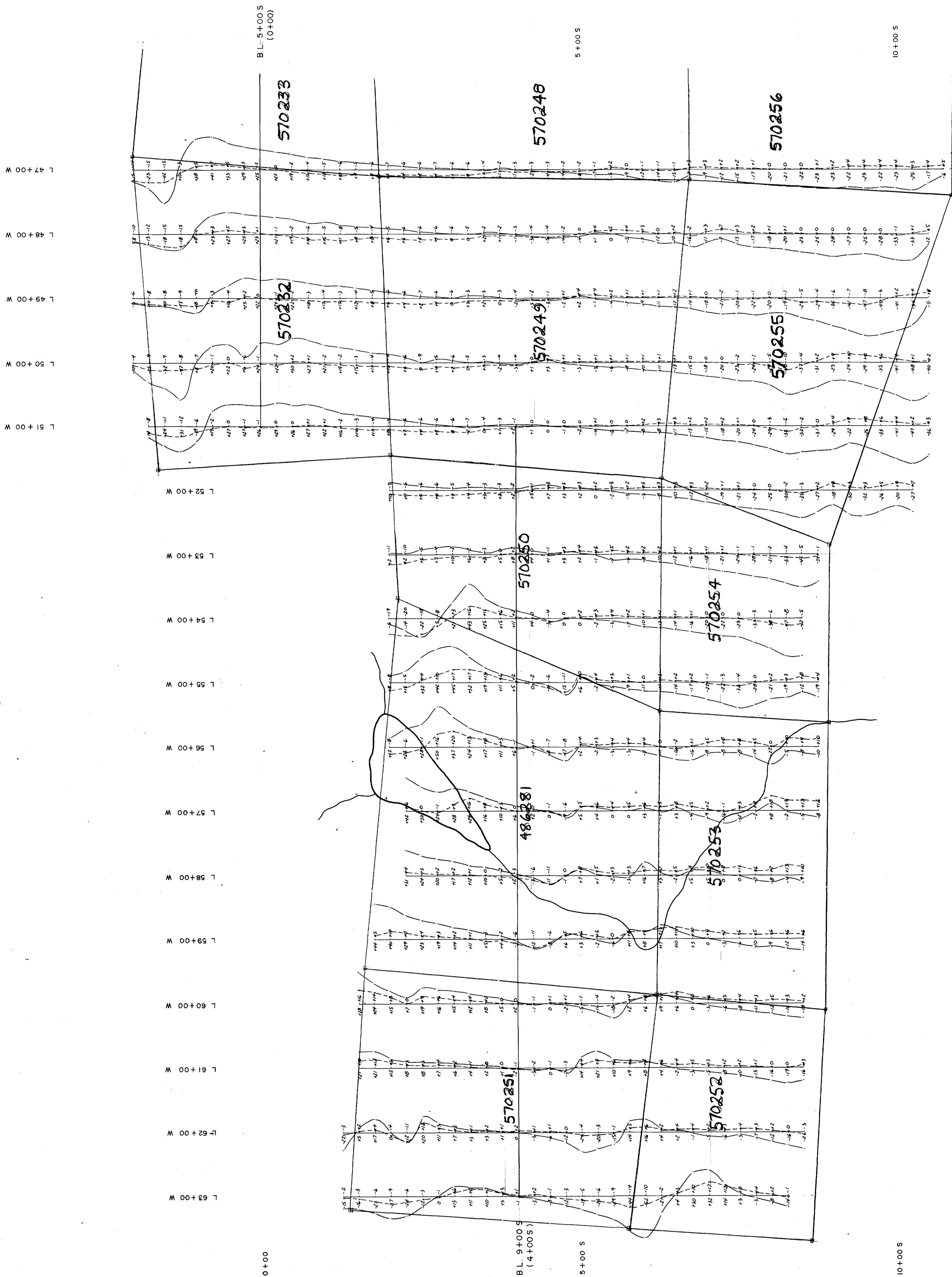


STEEP ROCK IRON MINES LIMITED
 ATIKOKAN, ONTARIO

King's Bay Project
 STURGEON LAKE AREA

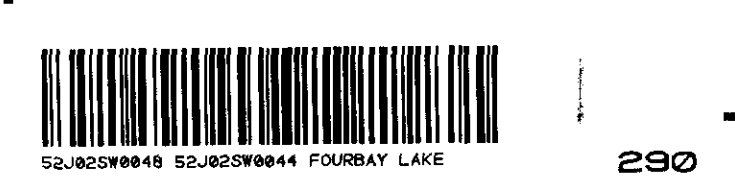
VLF PROFILE MAP

Date: May, 1983 | Scale: 1:2500 | N.T.S. 52-J-2
 PHANTOM EXPLORATION SERVICES LTD.



525/02 SW-0044 # 9

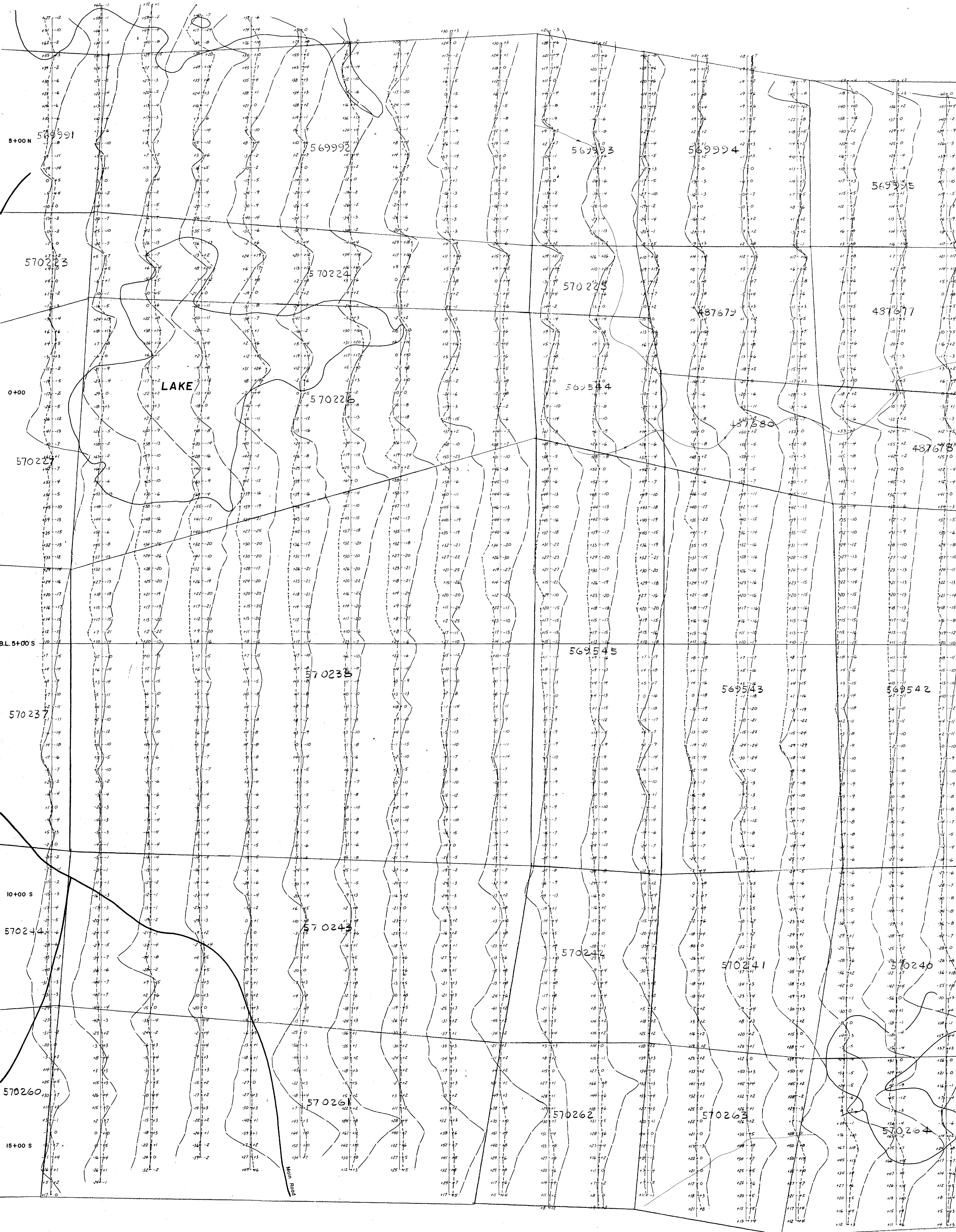




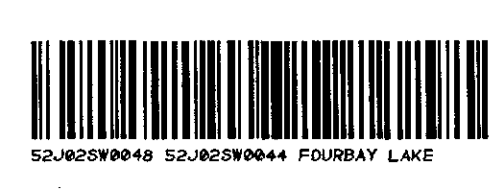
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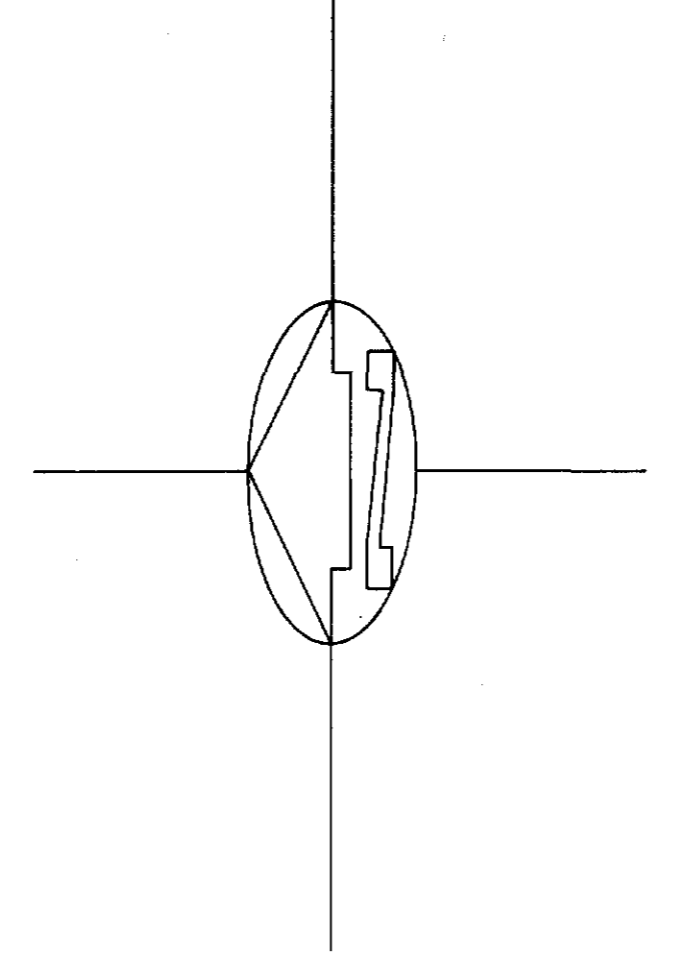
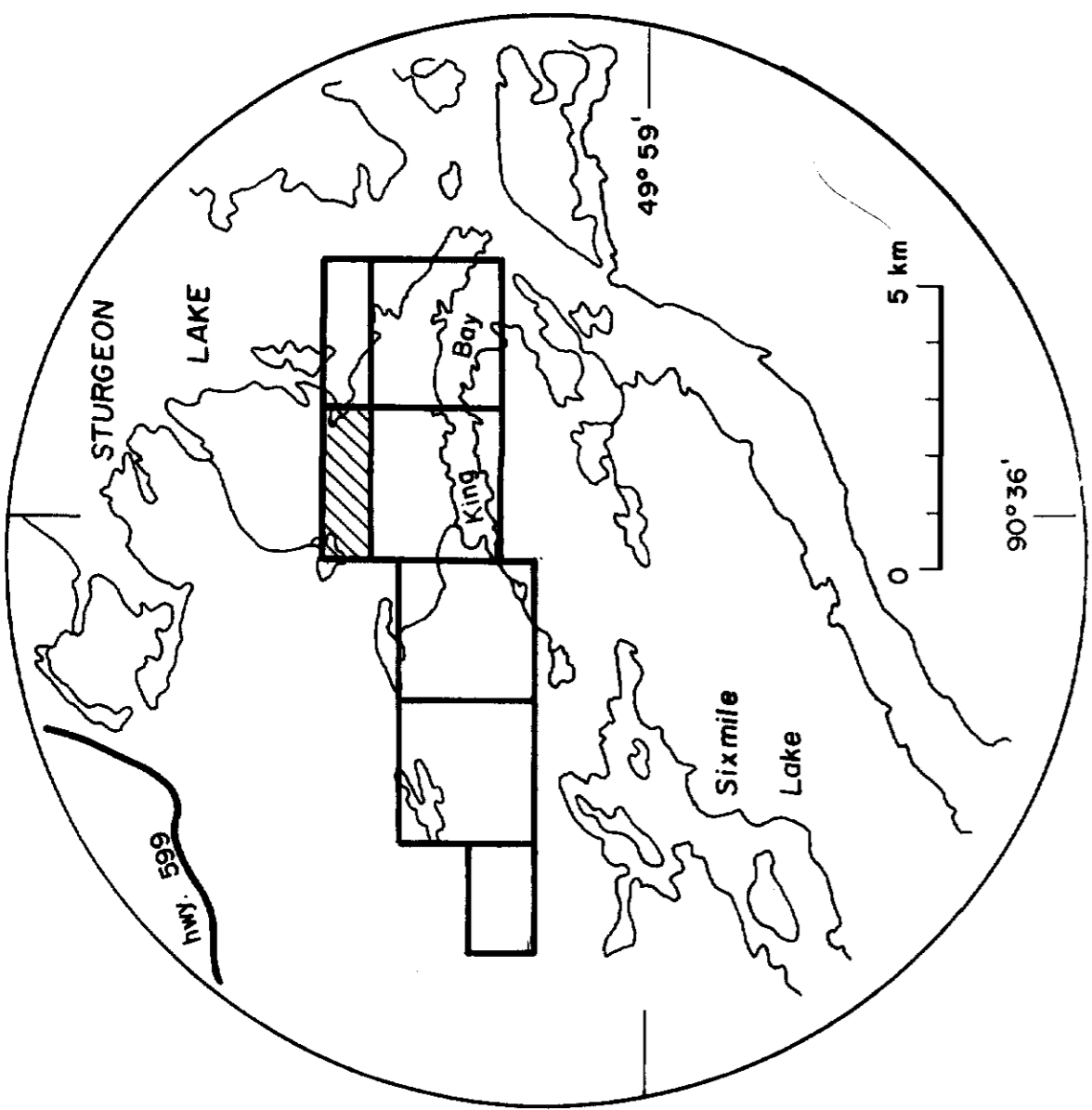
LAKE

LAKE



52J/02SW-0044 #





MAGNETOMETER SURVEY
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 DATUM: 55,000
 CONTOUR INTERVAL: 10
 MAGNETIC LOW: 10

BASE STATION RECORDER INFORMATION:
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 INSTRUMENT SERIAL: 1000
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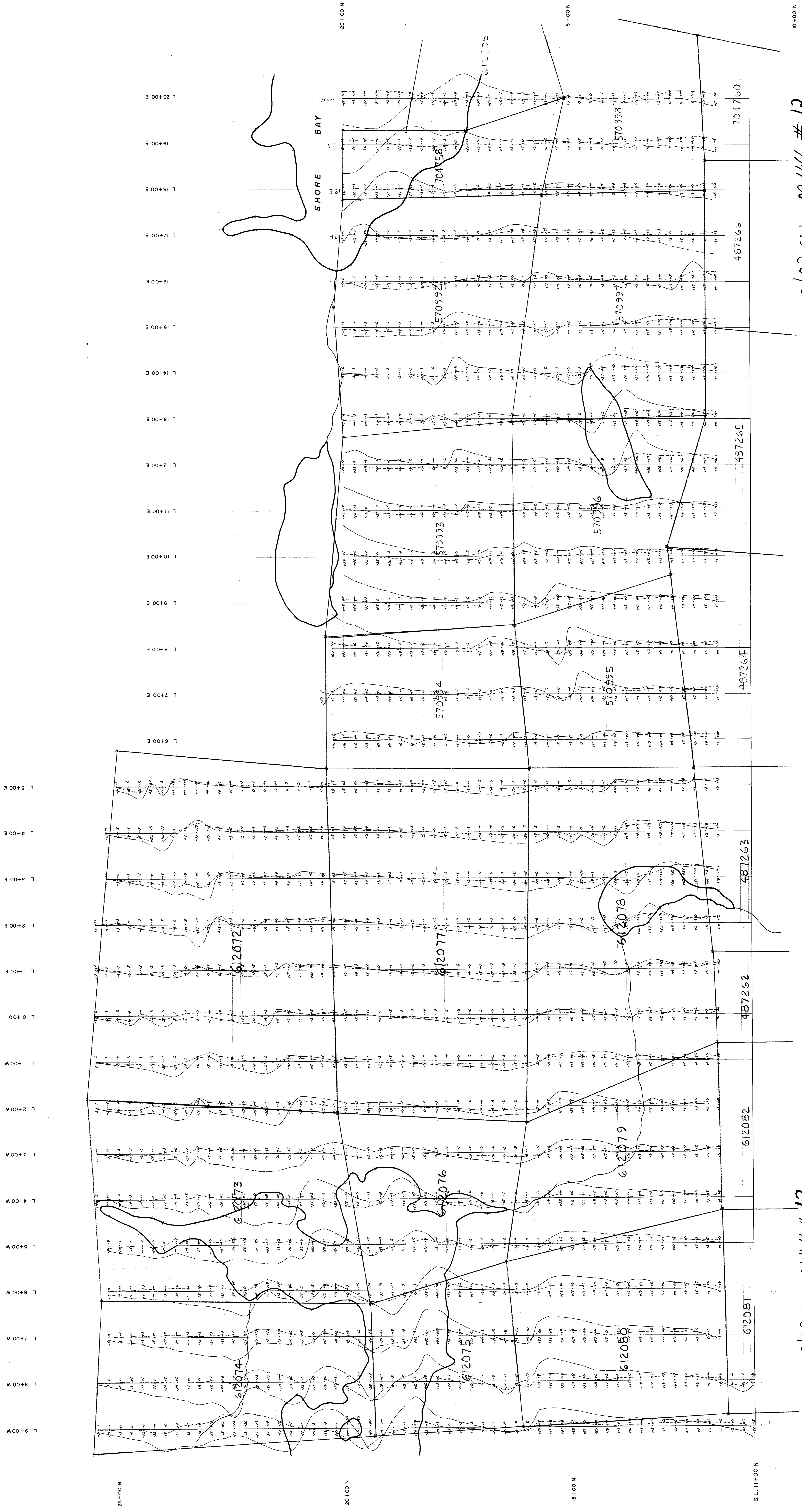
V.L.F. SURVEY
 INSTRUMENT: GEONICS EM-6
 INSTRUMENT SERIAL: 1000
 OPERATOR: CUTLER, MAINE
 DATE: 1983
 OUT OF PHASE READINGS: ---
 PROFILE SCALE: 1 cm = 20 %
 CONDUCTOR AXIS: —●—
 POSITIVE READINGS: EAST OF LINE
 CONTOUR INTERVAL: 20

TOPOGRAPHY
 SHORE
 ROAD
 CLAIM POST



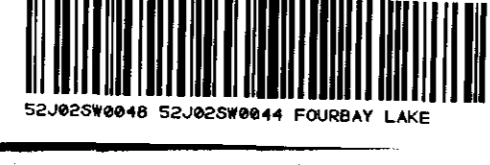
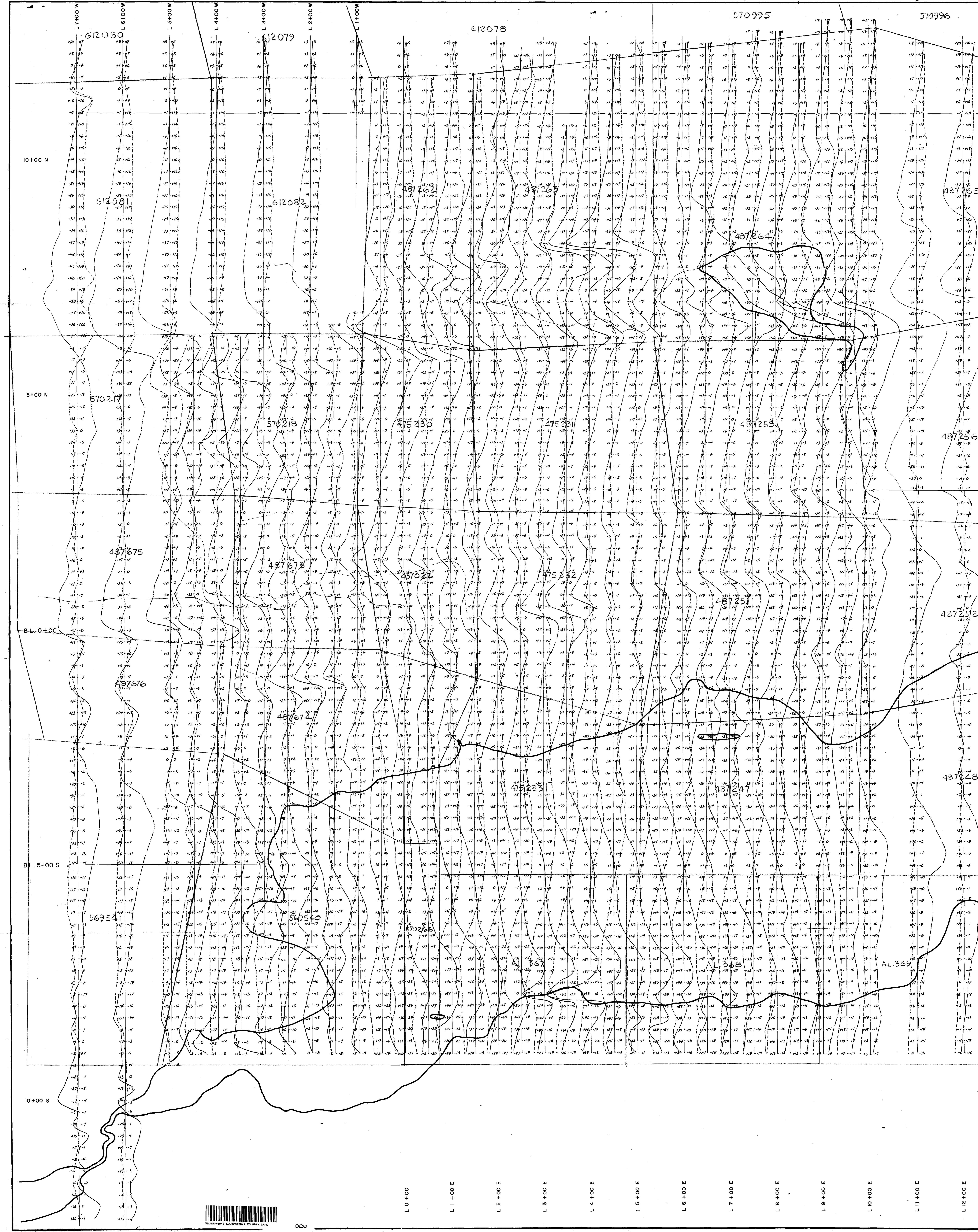
STEEP ROCK IRON MINES LIMITED
 ATKOKAN, ONTARIO

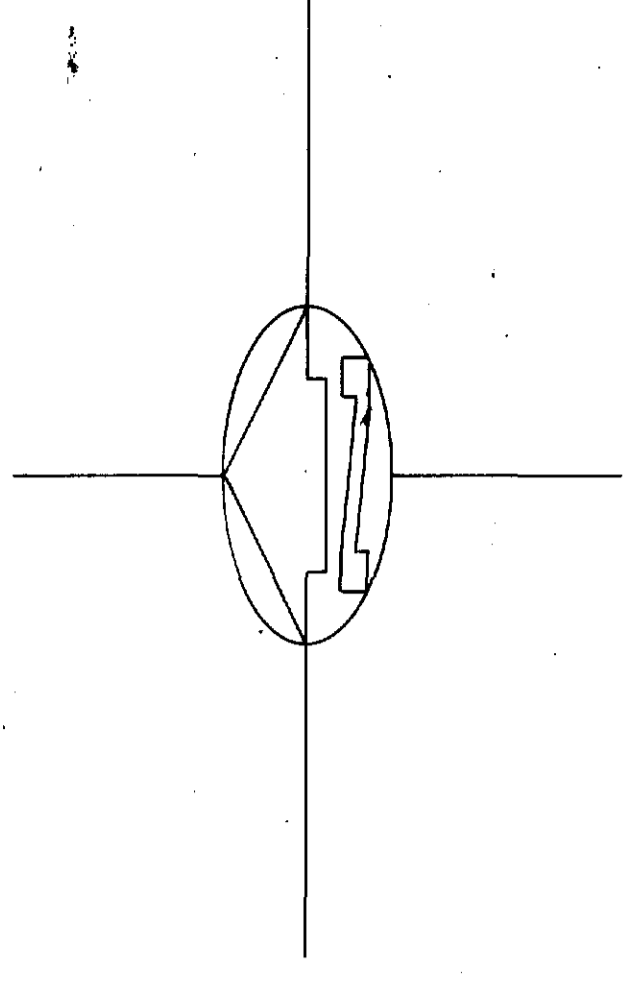
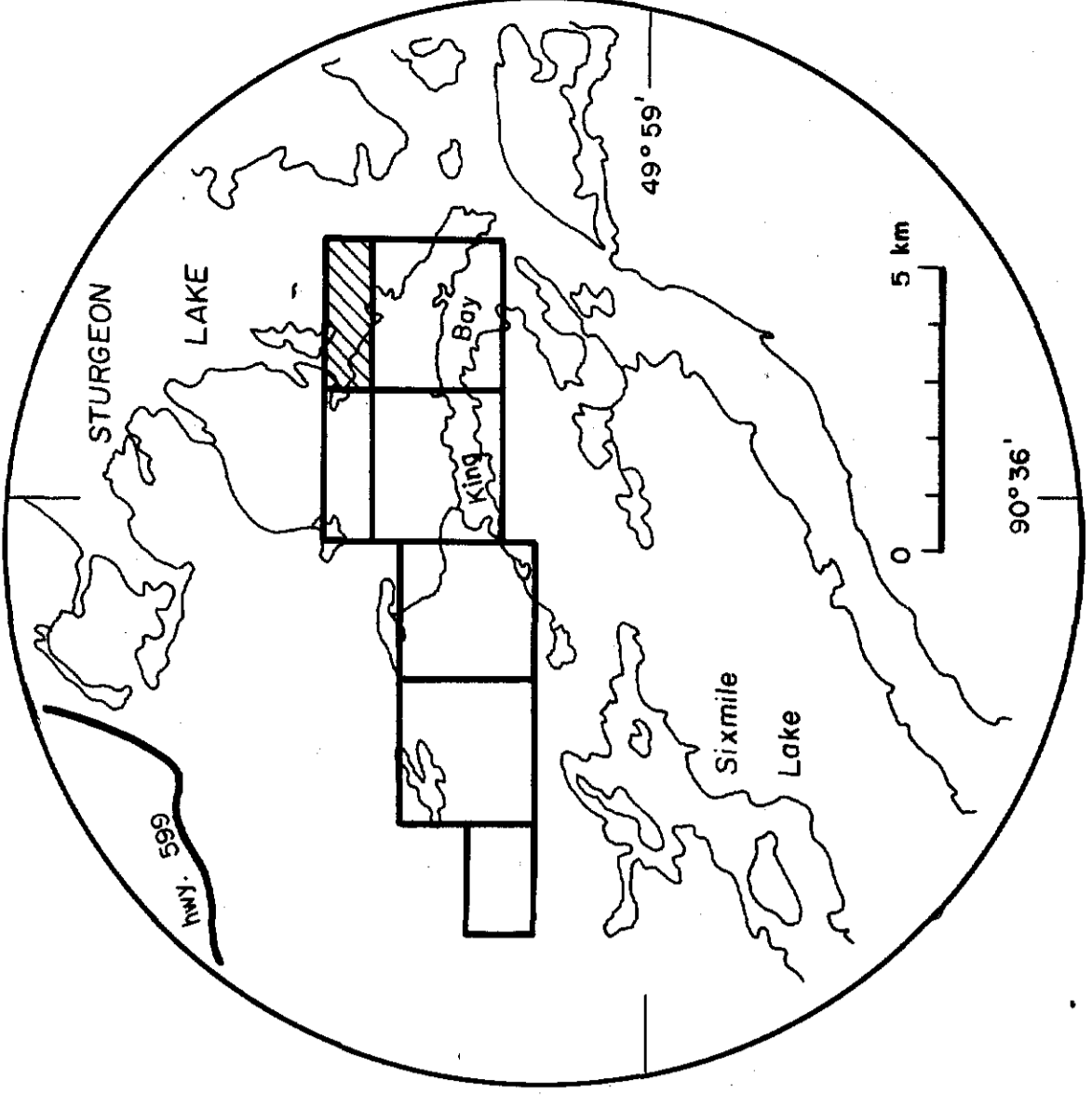
King's Bay Project
 STURGEON LAKE AREA
VLF PROFILE MAP
 Date: May, 1983. Scale: 1:2500. INT. S. 92-J-2
 PHANTOM EXPLORATION SERVICES LTD.



52 J 102 sw - 00 44 # 12

52 J 102 sw - 00 44 # 12





MAGNETOMETER SURVEY
 INSTRUMENT: SCINTREX MP-2 PROTON MAG.
 DATUM: 59,000
 CONTOUR INTERVAL: 10
 MAGNETIC LOW:

BASE STATION RECORDER INFORMATION:
 INSTRUMENT: SCINTREX MBS-2
 RECORDING RANGE: 100
 RECORDING INTERVAL: 10 SECONDS
 CHART SPEED: 20 MM / HR

V.L.F. SURVEY
 INSTRUMENT: GEONICS EM-16
 TRANSMITTER STATION: CUTLER, MAINE
 INPHASE READINGS:
 OUT OF PHASE READINGS:
 PROFILE SCALE: 1 cm = 20 %
 CONDUCTOR AXIS:
 POSITIVE READINGS: EAST OF LINE
 CONTOUR INTERVAL: 20

TOPOGRAPHY
 SHORE:
 ROAD:
 CLAIM POST:



52J/02 sw-0044 # 14

STEEP ROCK IRON MINES LIMITED
 ATIKOKAN, ONTARIO

King's Bay Project
 STURGEON LAKE AREA

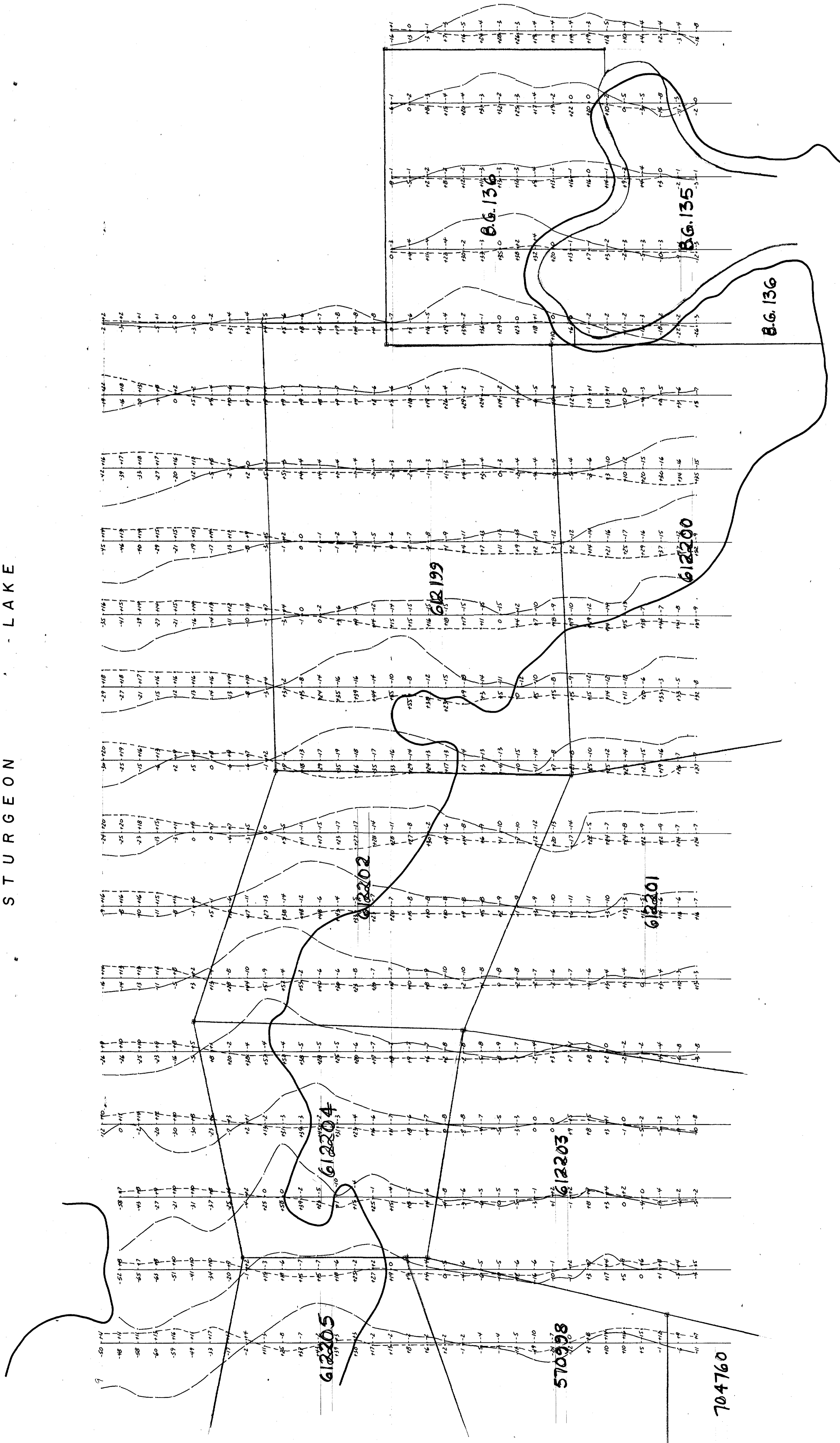
VLF PROFILE MAP

Date: May, 1963 | Scale: 1:2500 | N.T.S. 52-J-2
 PHANTOM EXPLORATION SERVICES LTD.

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 L 38+00 E
 L 37+00 E
 L 36+00 E
 L 35+00 E
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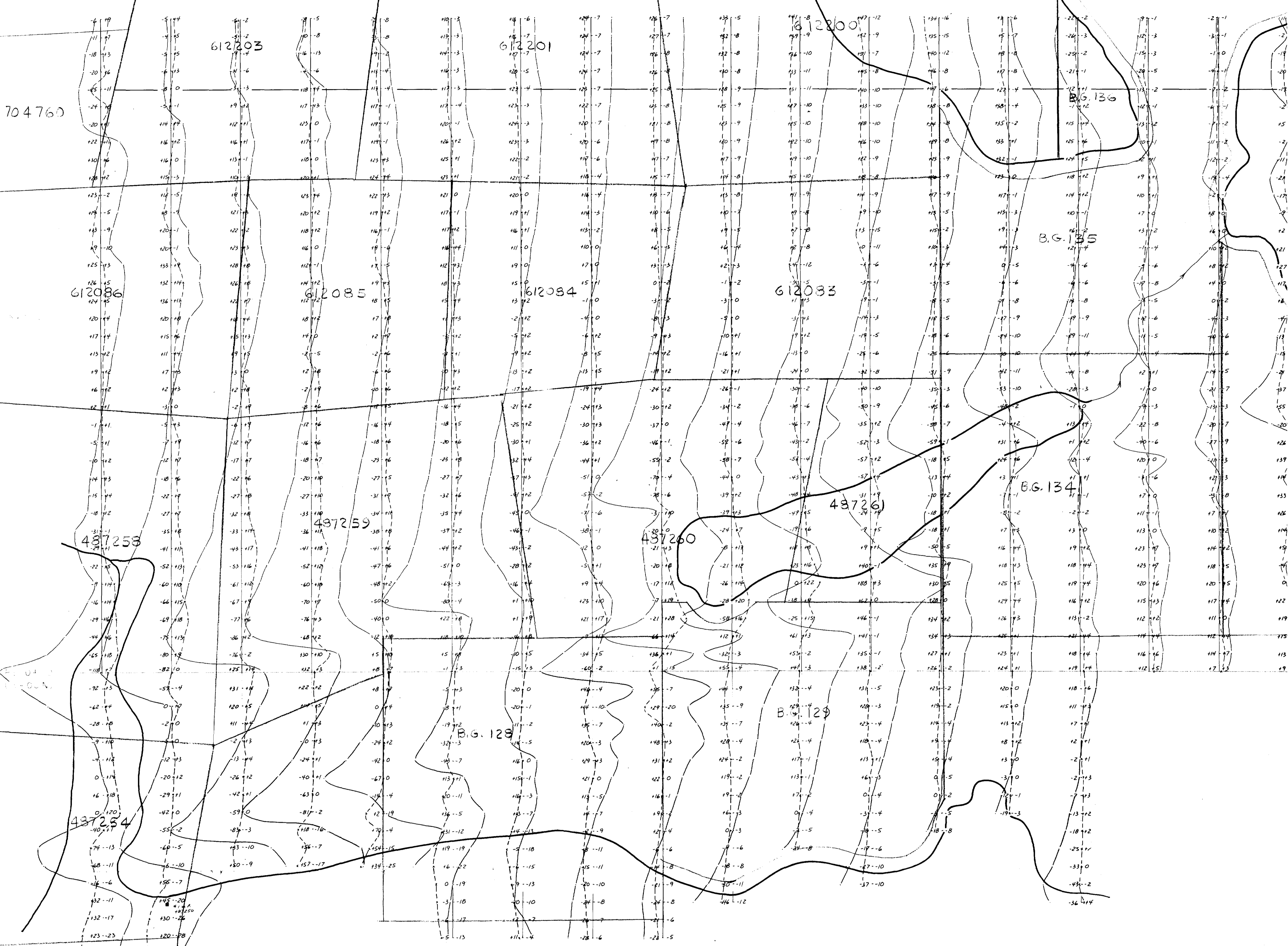
STURGEON LAKE

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 1+00 N

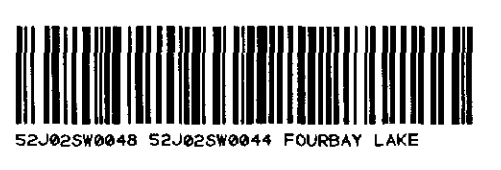
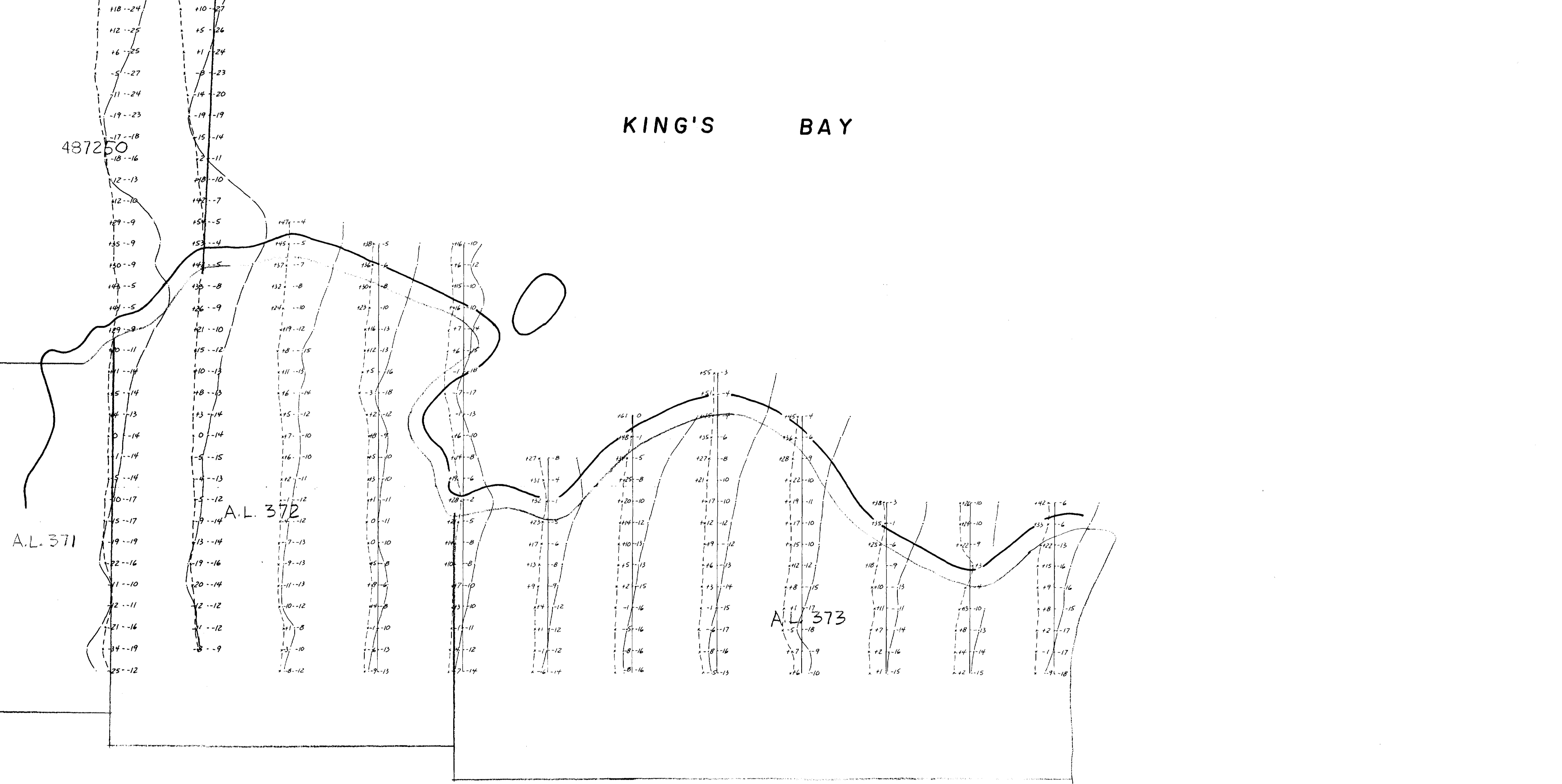


704760

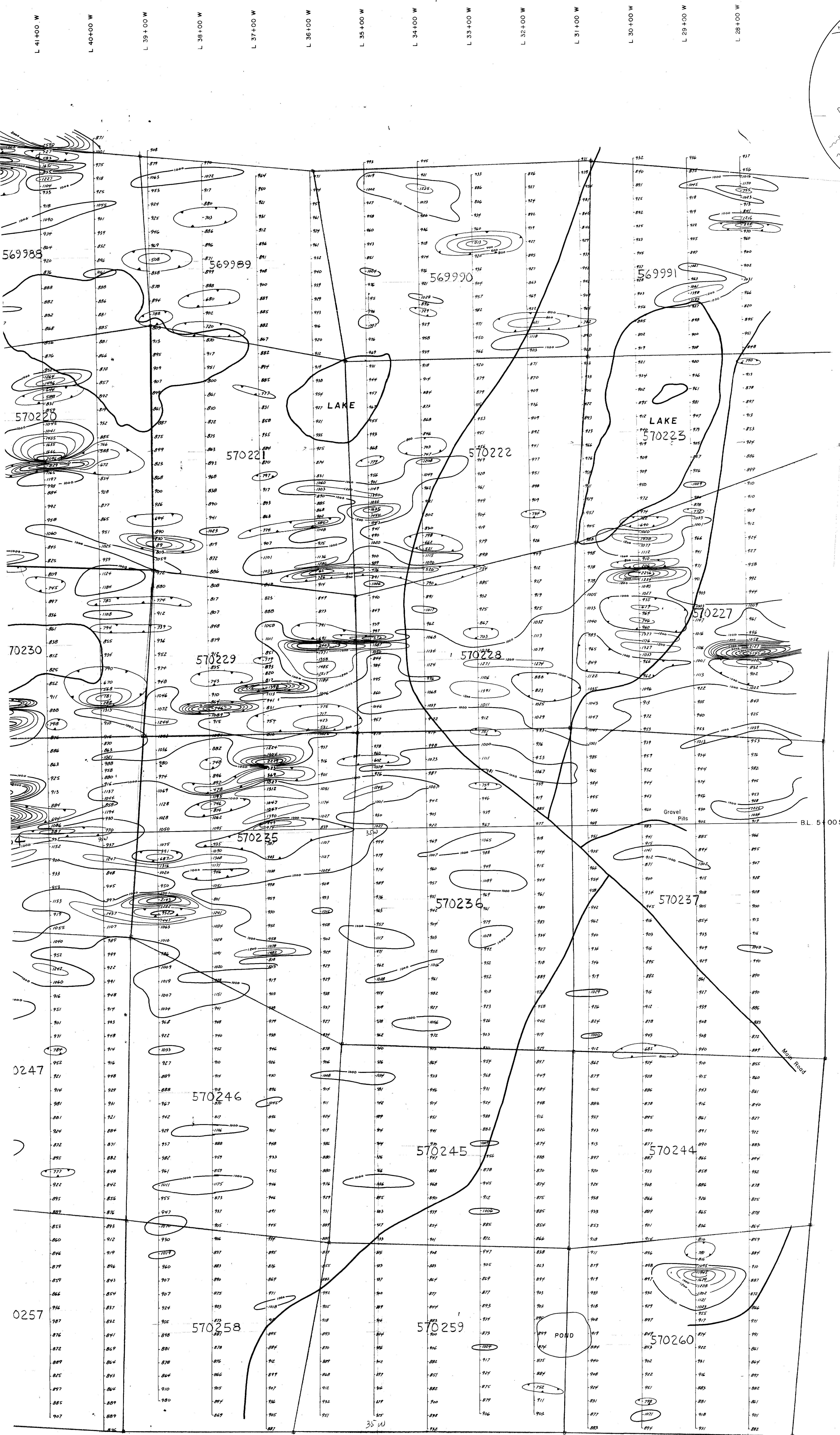
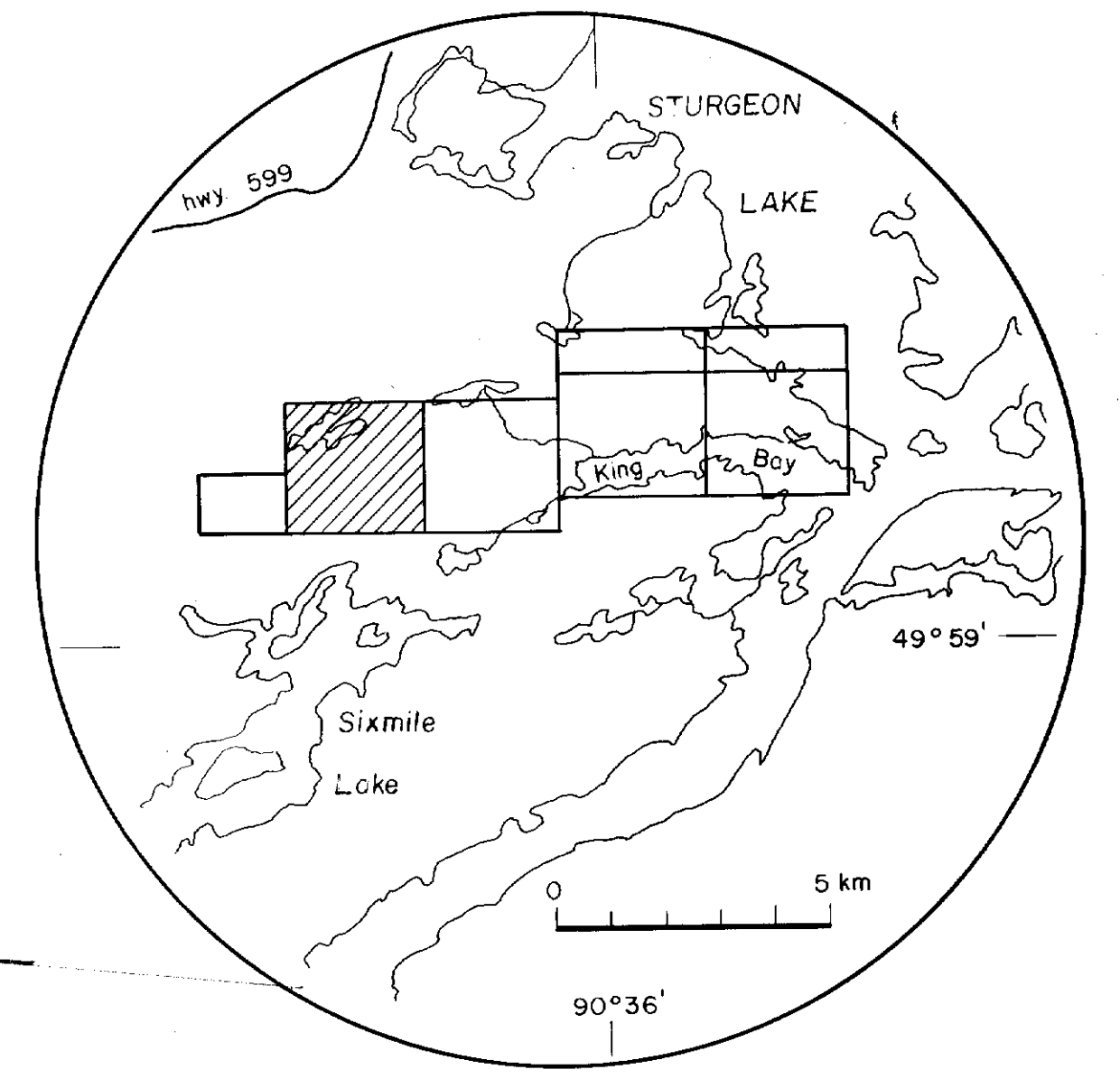




KING'S BAY



52J/02SW-0044 #3



MAGNETOMETER SURVEY
 INSTRUMENT: SCINTREX MP-2 PROTON MAG.
 DATUM: 59.000
 CONTOUR INTERVAL: < 2000 at 200 α ; > 2000 at 500 α
 MAGNETIC LOW:

BASE STATION RECORDER INFORMATION:
 INSTRUMENT: SCINTREX MBS-2
 RECORDER RANGE: 100 α
 RECORDING INTERVAL: 10 SECONDS
 CHART SPEED: 20 MM / HR

V.L.F. SURVEY
 INSTRUMENT: GEONICS EM-16
 TRANSMITTER STATION: CUTLER, MAINE
 INPHASE READINGS:
 OUT OF PHASE READINGS:
 PROFILE SCALE: 1cm = 20%
 CONDUCTOR AXIS:
 POSITIVE READINGS: EAST OF LINE
 CONTOUR INTERVAL:

TOPOGRAPHY
 SHORE:
 ROAD:
 CLAIM POST:

Professional Surveyor
 J. A. BERNIERI
 April 13/84

STEEP ROCK IRON MINES LIMITED
 ATIKOKAN, ONTARIO

King's Bay Project
 STURGEON LAKE AREA

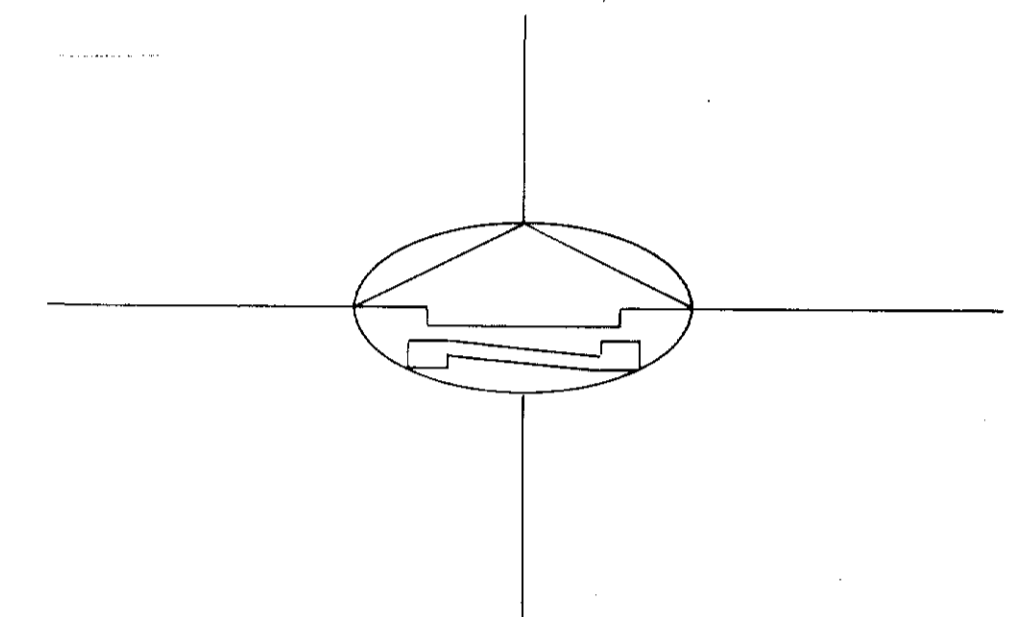
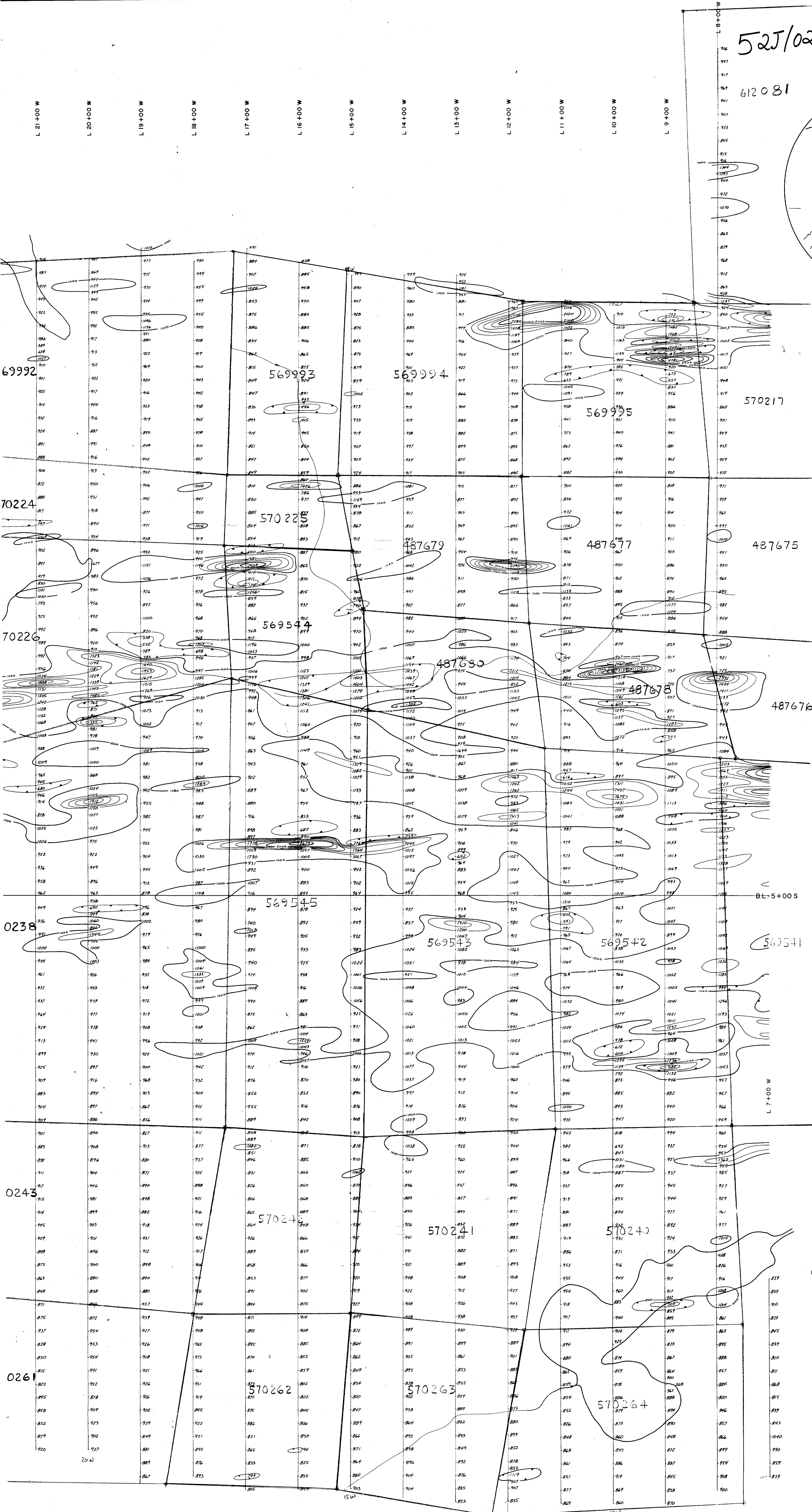
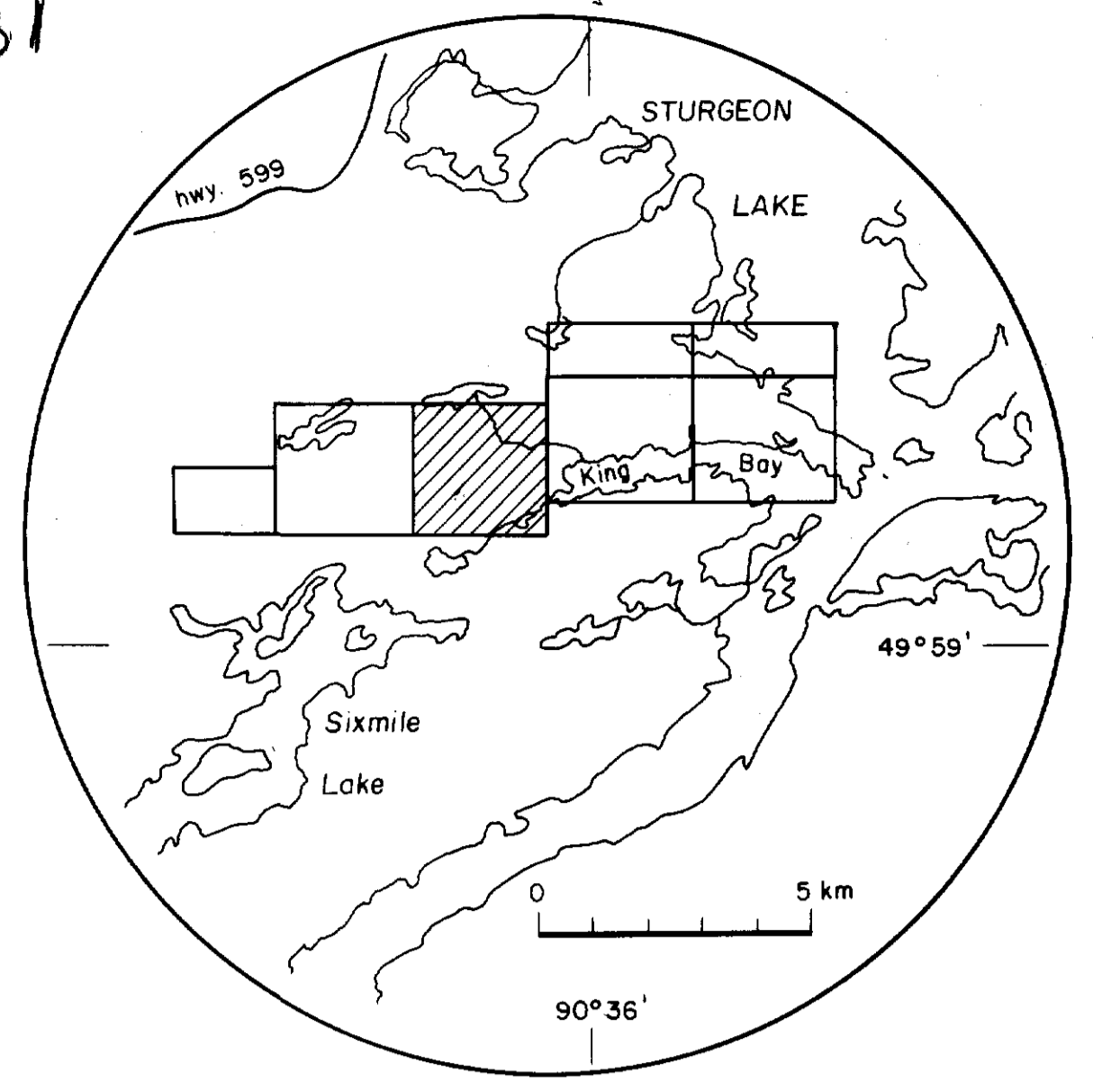
MAGNETOMETER SURVEY
 Date: November '82 Scale: 1:2500 N.T.S. 52-J-2
 PHANTOM EXPLORATION SERVICES LTD.

52J/02SW-0044 #3

26160

52J/02 SW-0044 #4

612081



MAGNETOMETER SURVEY
 INSTRUMENT: SCINTREX MP-2 PROTON MAG.
 DATUM: 59,000
 CONTOUR INTERVAL: < 2000 at 200 α ; > 2000 at 500 α
 MAGNETIC LOW:

BASE STATION RECORDER INFORMATION:
 INSTRUMENT: SCINTREX MBS-2
 RECORDER RANGE: 100 α
 RECORDING INTERVAL: 10 SECONDS
 CHART SPEED: 20 MM / HR

V.L.F. SURVEY
 INSTRUMENT: GEONICS EM-16
 TRANSMITTER STATION: CUTLER, MAINE
 INPHASE READINGS:
 OUT OF PHASE READINGS:
 PROFILE SCALE: 1 cm = 20 %
 CONDUCTOR AXIS:
 POSITIVE READINGS: EAST OF LINE
 CONTOUR INTERVAL:

TOPOGRAPHY
 SHORE:
 ROAD:
 CLAIM POST:

J.A. B. ROBINSON
 Geophysicist
 Ontario
 April 13/84

STEEP ROCK IRON MINES LIMITED
 ATIKOKAN, ONTARIO
 King's Bay Project
 STURGEON LAKE AREA
MAGNETOMETER SURVEY
 Date: November '82 Scale: 1:2500 N.T.S.: 62-J-2
 PHANTOM EXPLORATION SERVICES LTD.

52J/02 SW-0044 #4

570995

570996

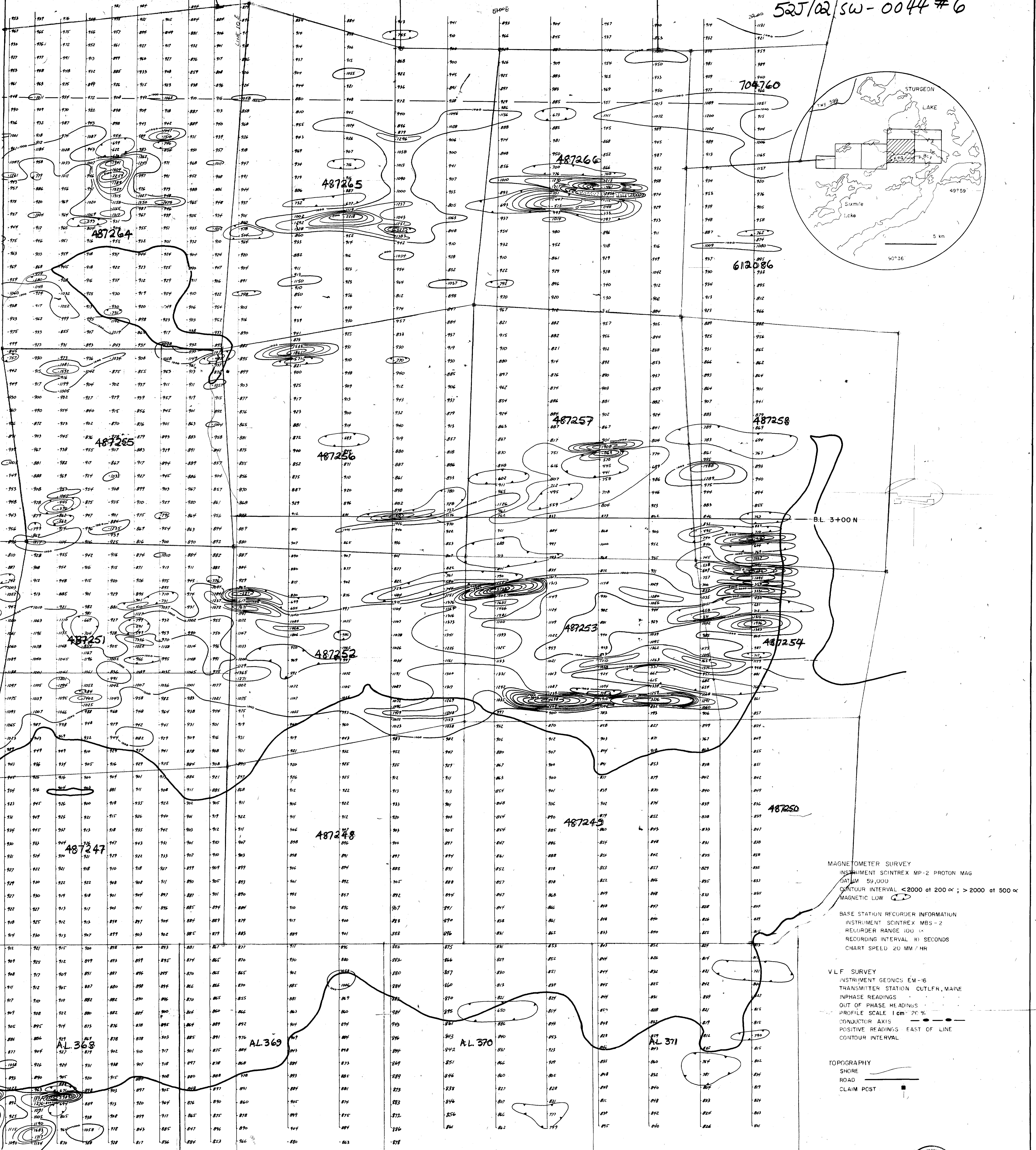
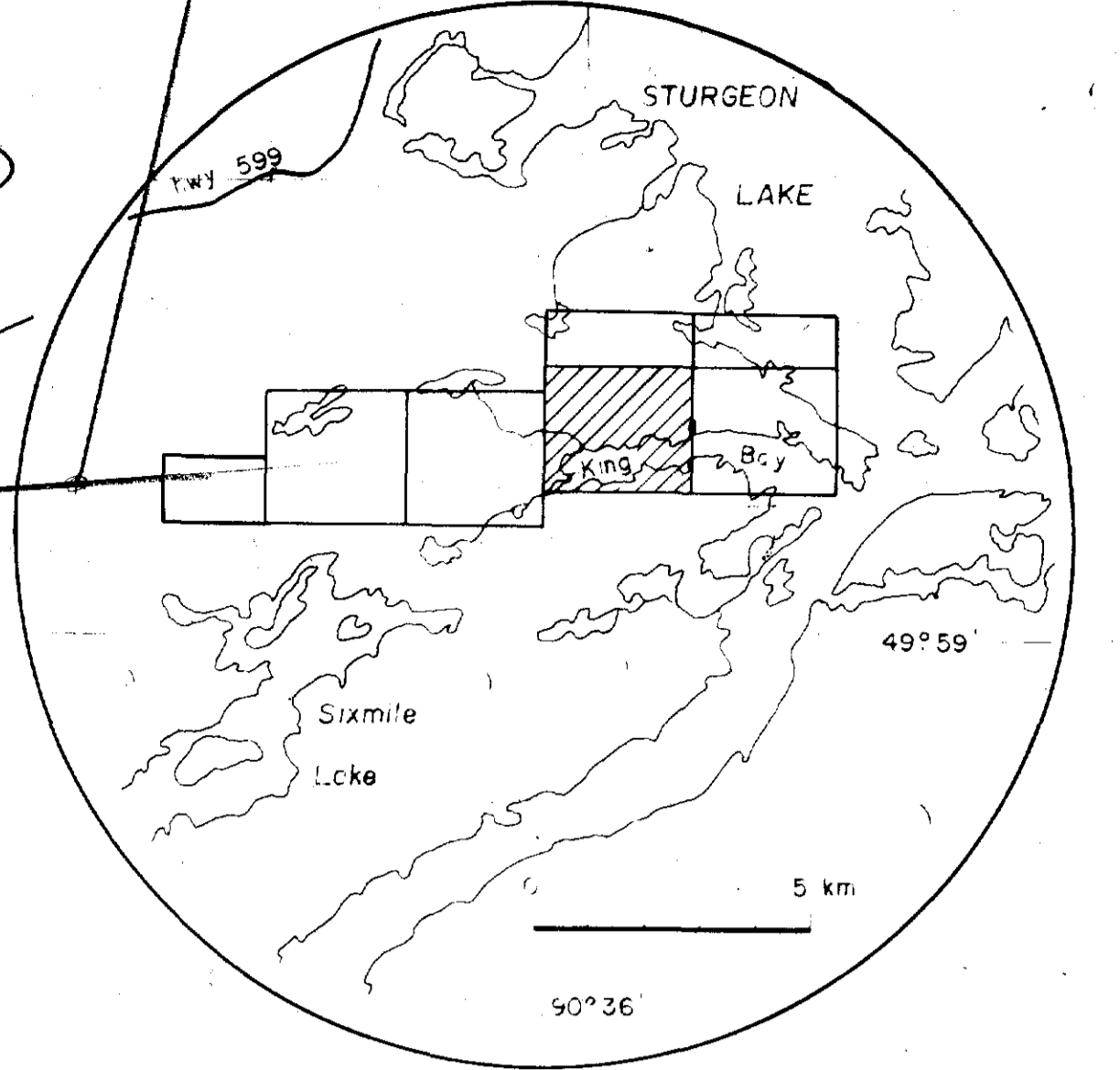
570997

570998

52J/02 SW-0044 #6

704760

612086



MAGNETOMETER SURVEY
 INSTRUMENT SCINTREX MP-2 PROTON MAG
 DATUM 59,000
 CONTOUR INTERVAL < 2000 at 200 α ; > 2000 at 500 α
 MAGNETIC LOW

BASE STATION RECORDER INFORMATION
 INSTRUMENT SCINTREX MBS-2
 RECORDER RANGE 100 α
 RECORDING INTERVAL 10 SECONDS
 CHART SPEED 20 MM / HR

VLF SURVEY
 INSTRUMENT GEONICS EM-16
 TRANSMITTER STATION CUTLFR, MAINE
 INPHASE READINGS
 OUT OF PHASE READINGS
 PROFILE SCALE 1 cm = 20 %
 CONDUCTOR AXIS
 POSITIVE READINGS EAST OF LINE
 CONTOUR INTERVAL

TOPOGRAPHY
 SHORE
 ROAD
 CLAIM POST

R. J. [Signature]
 April 13/84

52J/02 SW-0044 #6

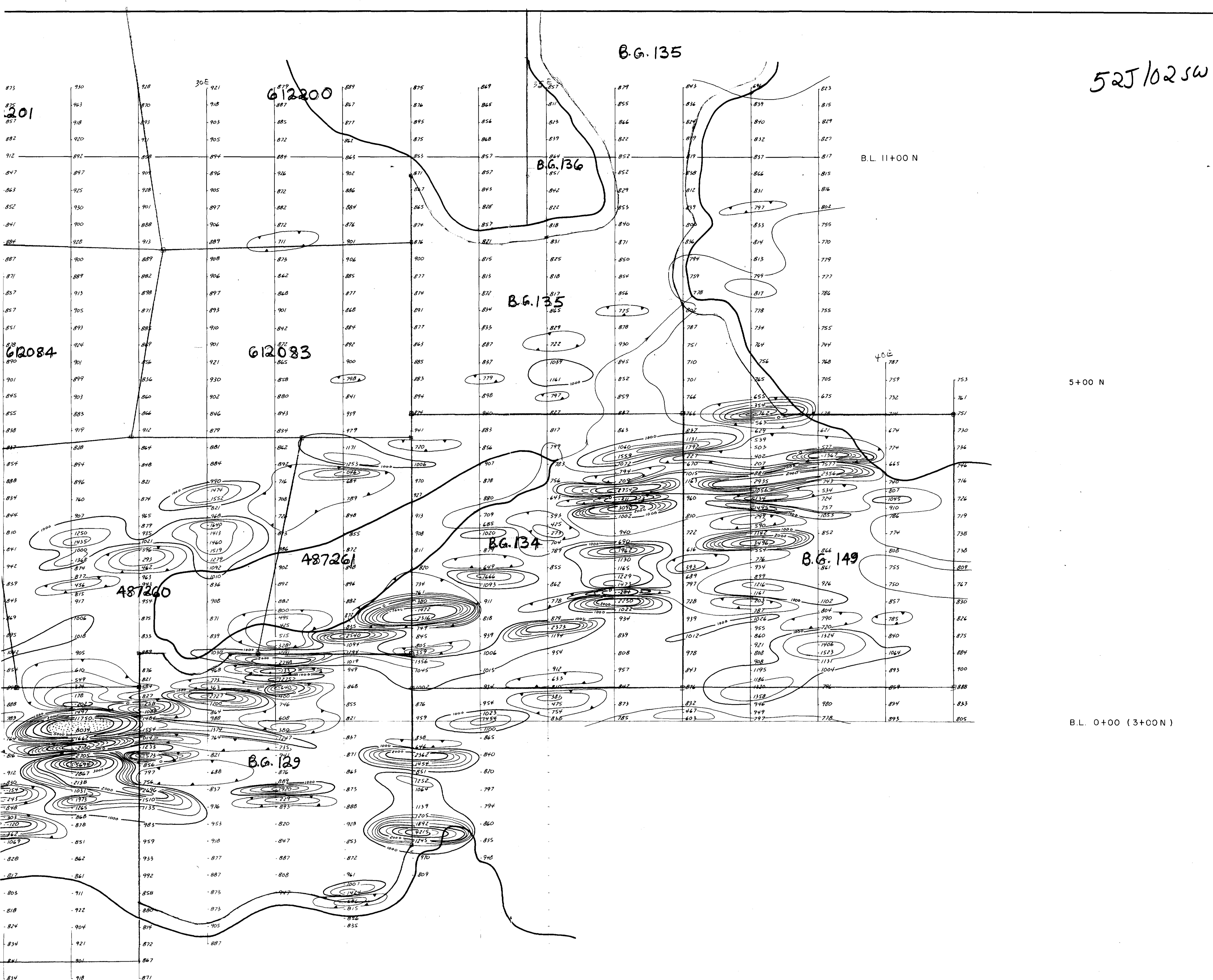
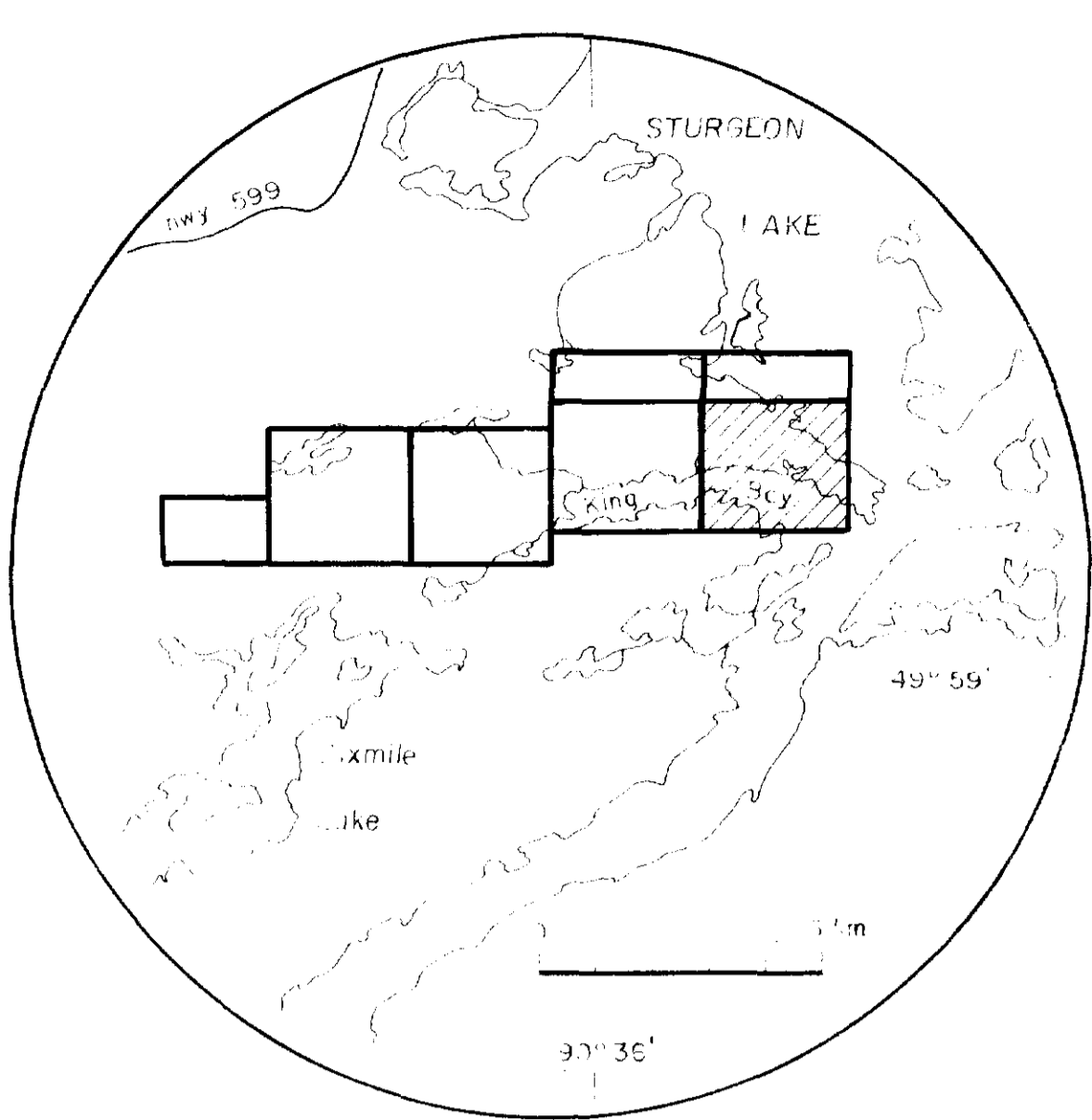
STEEP ROCK IRON MINES LIMITED
 ATKOKAN, ONTARIO

King's Bay Project
 STURGEON LAKE AREA 26160

MAGNETOMETER SURVEY
 Date: November 82 Scale: 1:2500 N.T.S.: 52-J-2
 PHANTOM EXPLORATION SERVICES LTD.

L 6+00E L 7+00E L 8+00E L 9+00E L 10+00E L 11+00E L 12+00E L 13+00E L 14+00E L 15+00E L 16+00E L 17+00E L 18+00E L 19+00E L 20+00E

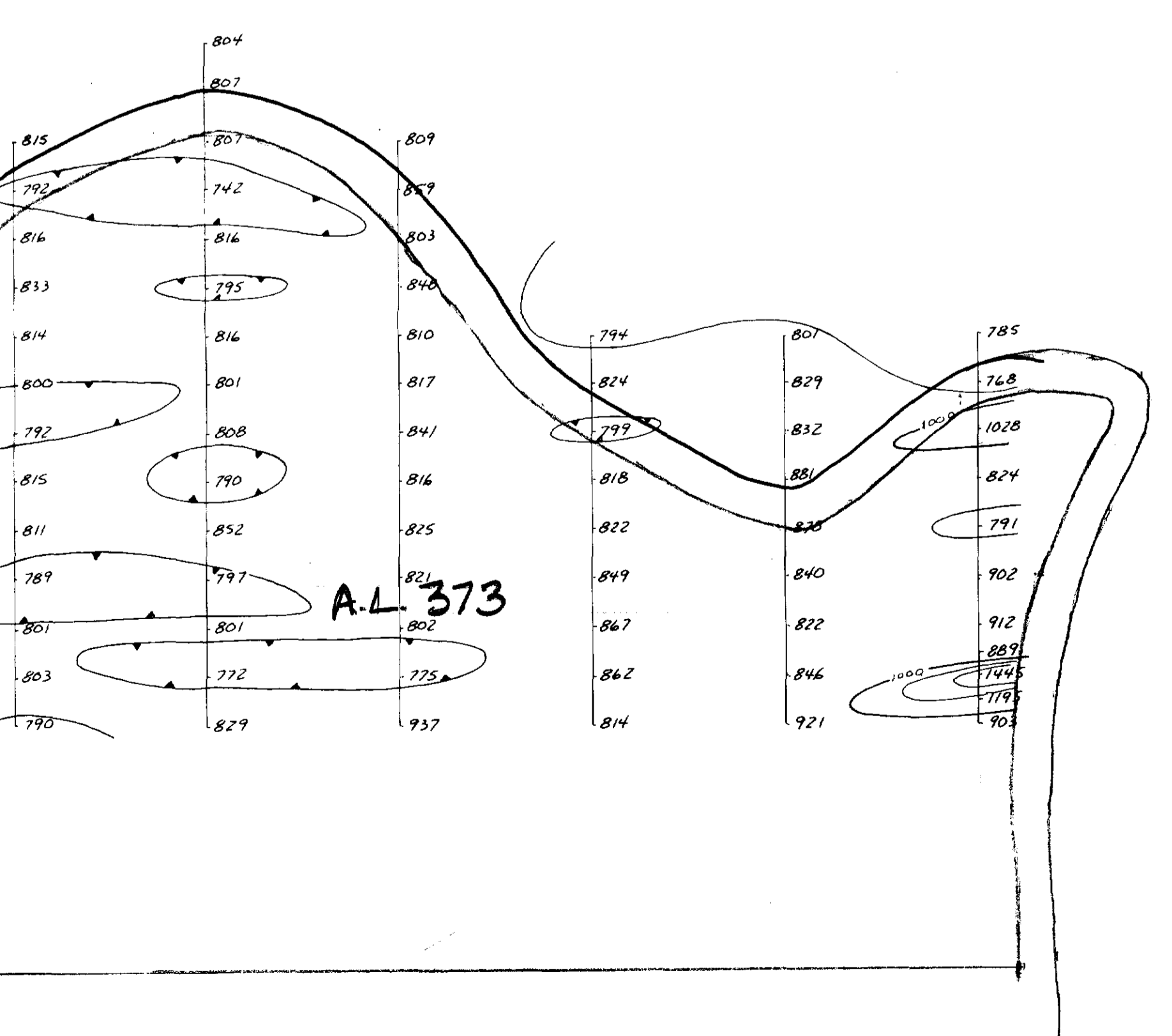
52J/02SW-0044 #8



5+00 N

B.L. 0+00 (3+00N)

KING'S BAY



MAGNETOMETER SURVEY
 INSTRUMENT SCINTREX MP-2 PROTON MAG
 DATUM 59,000
 CONTOUR INTERVAL <2000 at 200' ; >2000 at 500'
 MAGNETIC LOW

BASE STATION RECORDER INFORMATION
 INSTRUMENT SCINTREX MBS-2
 RECORDER RANGE 100'
 RECORDING INTERVAL 10 SECONDS
 CHART SPEED 20 MM / HR

VLF SURVEY
 INSTRUMENT GEONICS EM-16
 TRANSMITTER STATION CUTLER, MAINE
 INPHASE READINGS
 OUT OF PHASE READINGS
 PROFILE SCALE 1 cm = 20 %
 CONDUCTOR AXIS
 POSITIVE READINGS EAST OF LINE
 CONTOUR INTERVAL

TOPOGRAPHY
 SHORE
 ROAD
 CLAIM POST

Professional Surveyor
 I.A. B. BONDUR
 April 13/84

52J/02SW-0044 #8

L 27+00 E L 28+00 E L 29+00 E L 30+00 E L 31+00 E L 32+00 E L 33+00 E L 34+00 E L 35+00 E L 36+00 E L 37+00 E L 38+00 E L 39+00 E L 40+00 E L 41+00 E L 42+00 E L 43+00 E L 44+00 E L 45+00 E

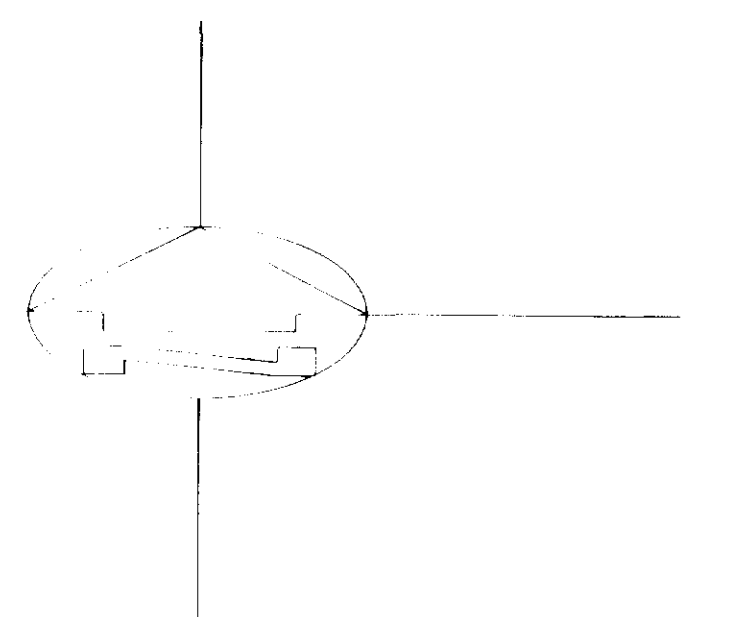
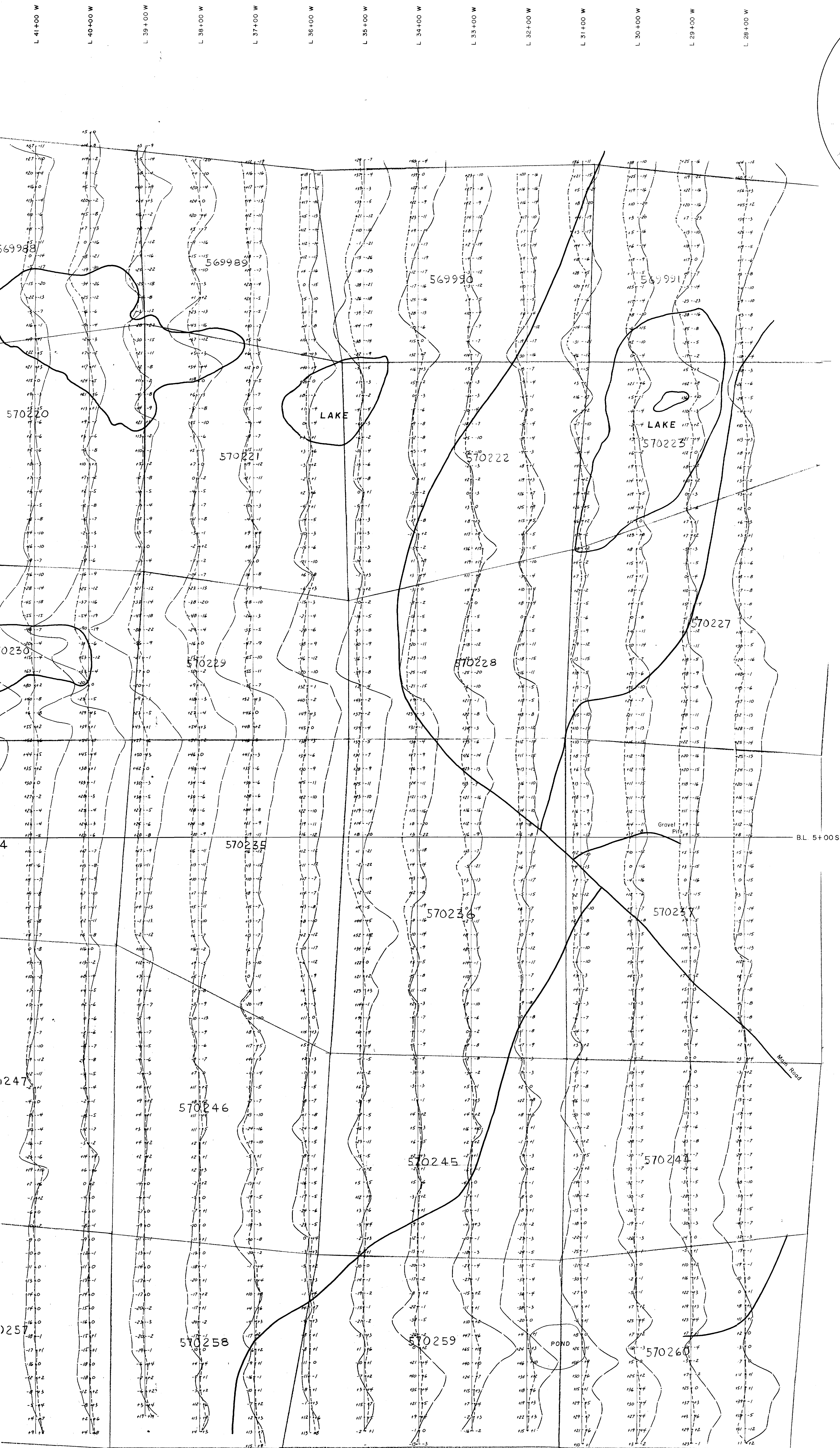
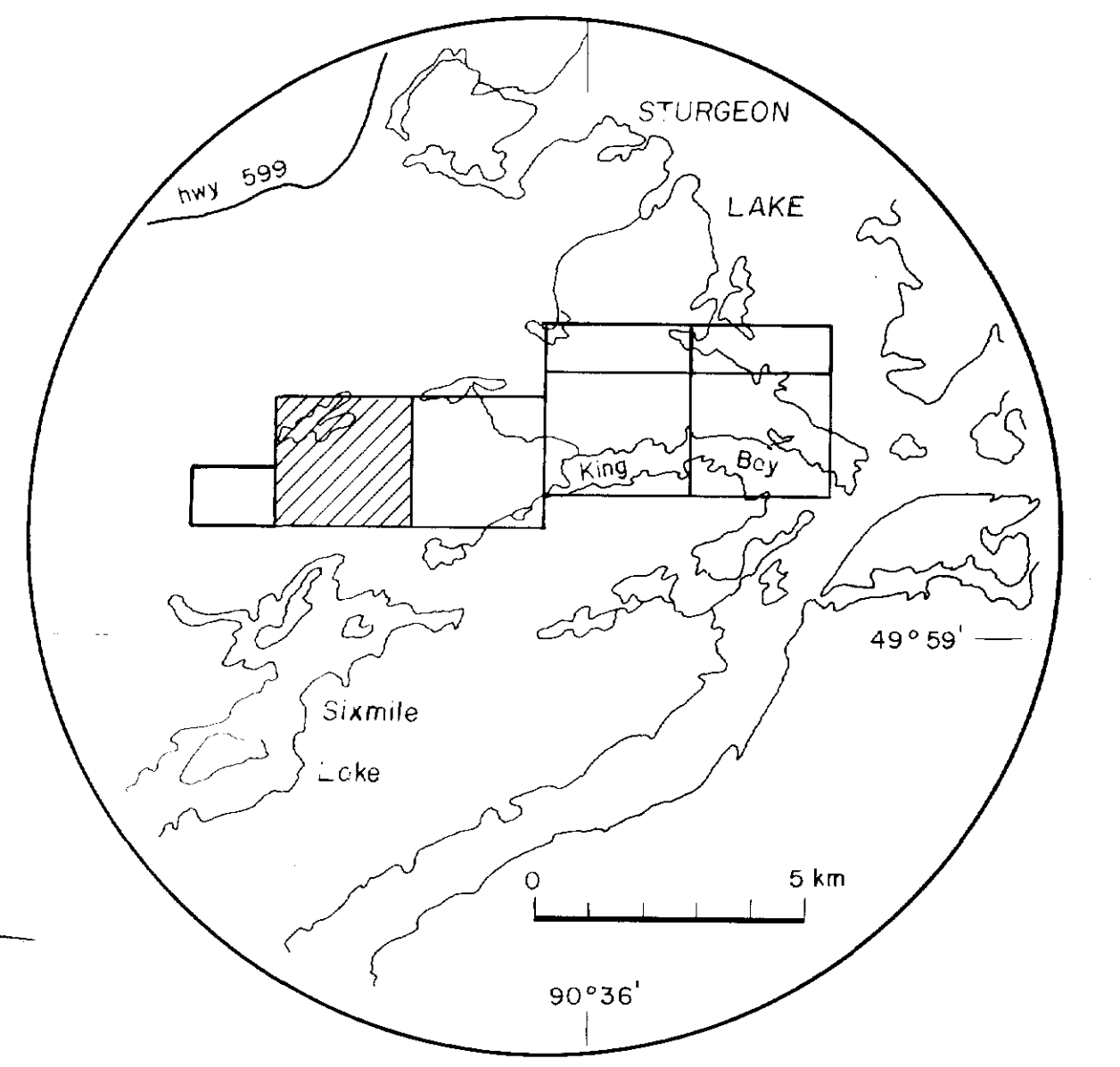
STEEP ROCK IRON MINES LIMITED
 ATIKOKAN, ONTARIO

King's Bay Project
 STURGEON LAKE AREA

MAGNETOMETER SURVEY
 Date: November '82 | Scale: 1:2500 | N.T.S.: 52-J-2
 PHANTOM EXPLORATION SERVICES LTD.

2/160

52J/02 SW-0044 # 10



MAGNETOMETER SURVEY
 INSTRUMENT SCINTREX MP-2 PROTON MAG.
 DATUM 59,000
 CONTOUR INTERVAL:
 MAGNETIC LOW

BASE STATION RECORDER INFORMATION:
 INSTRUMENT SCINTREX MBS-2
 RECORDER RANGE 100
 RECORDING INTERVAL 10 SECONDS
 CHART SPEED 20 MM / HR

V.L.F. SURVEY
 INSTRUMENT GEONICS EM-16
 TRANSMITTER STATION CUTLER, MAINE
 INPHASE READINGS
 OUT OF PHASE READINGS
 PROFILE SCALE 1cm = 20%
 CONDUCTOR AXIS
 POSITIVE READINGS EAST OF LINE
 CONTOUR INTERVAL:

TOPOGRAPHY
 SHORE
 ROAD
 CLAIM POST

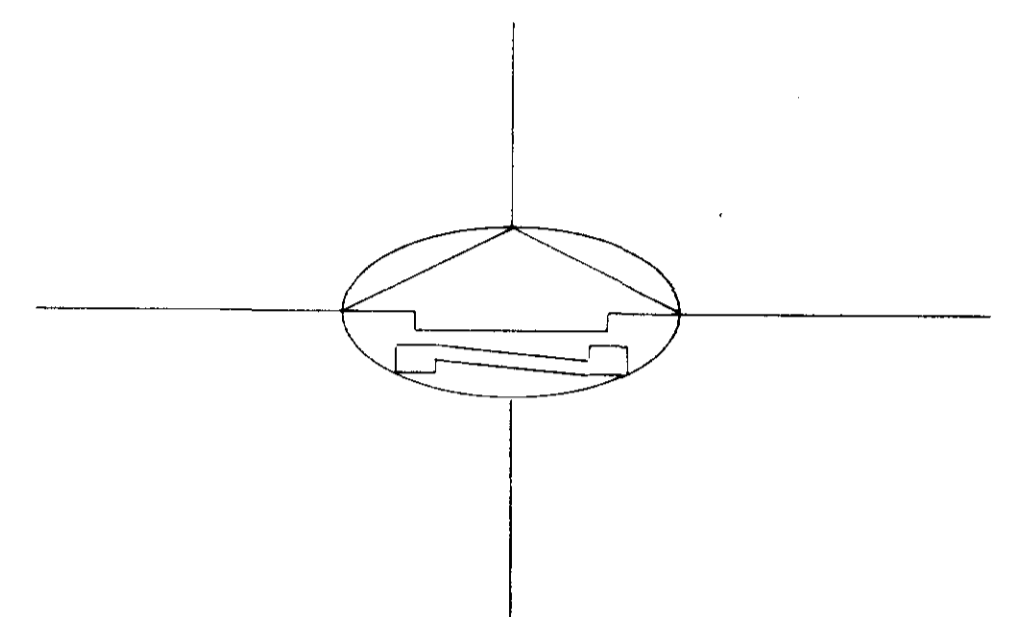
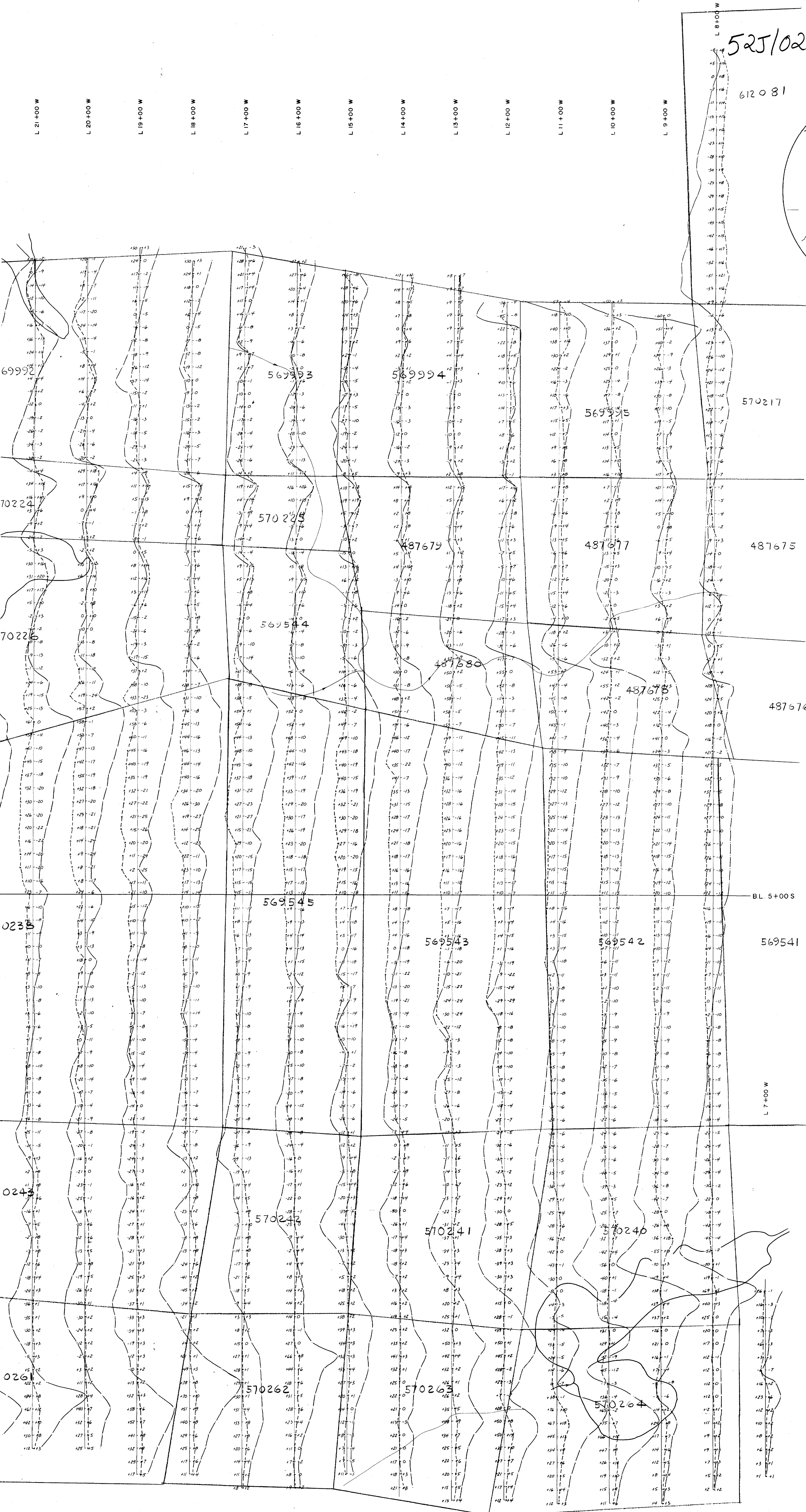
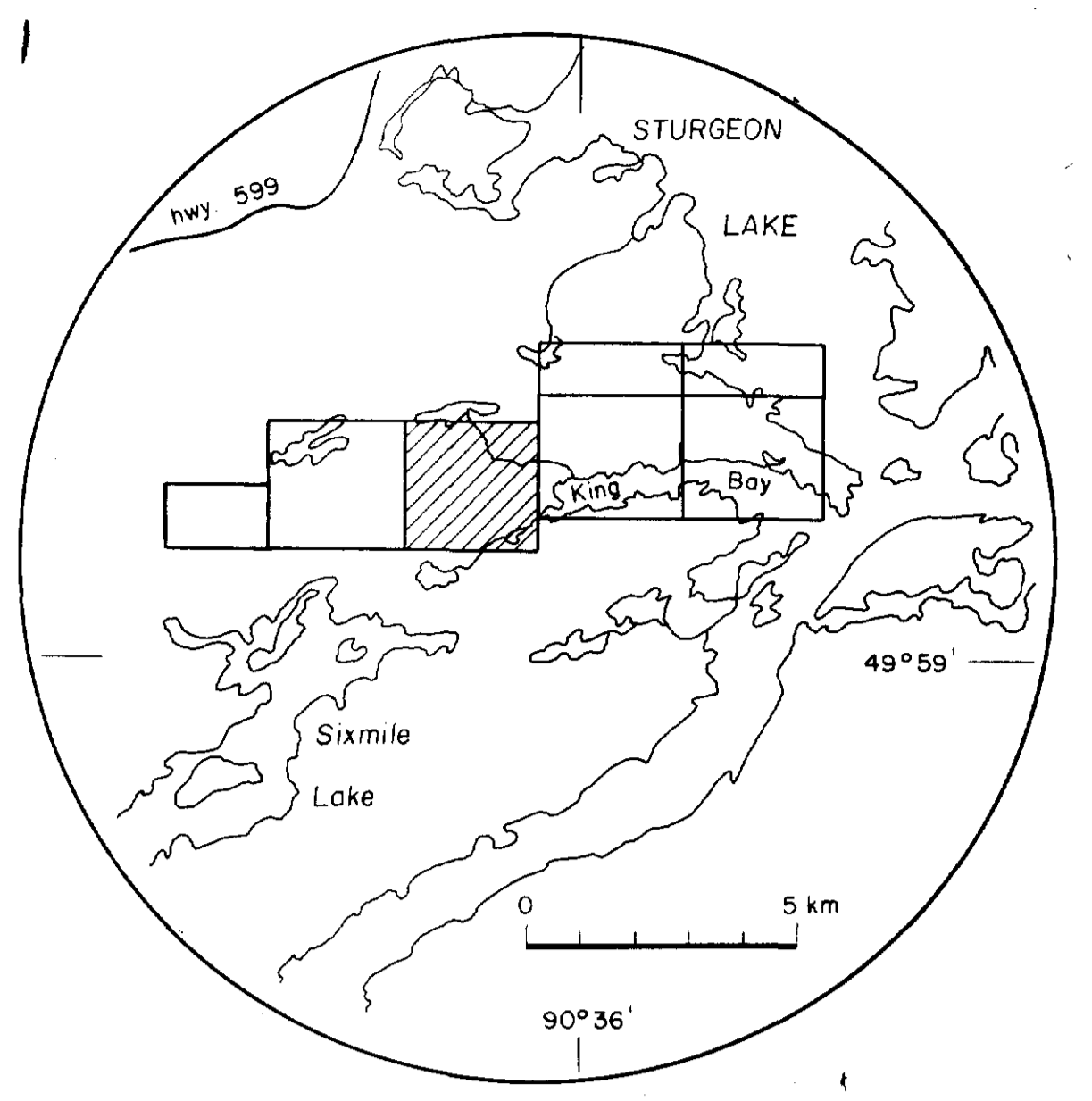
Professional Engineer
April 13/04

STEEP ROCK IRON MINES LIMITED ATIKOKAN, ONTARIO	
King's Bay Project STURGEON LAKE AREA	
V.L.F. PROFILE MAP	
Date: November '82	Scale: 1:2500 N.T.S.: 52-J-2
PHANTOM EXPLORATION SERVICES LTD.	

52J/02 SW-0044 # 10

52J/02sw-0044# 11

612081

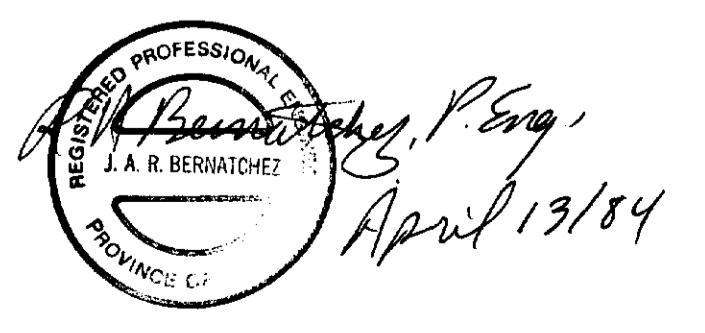


MAGNETOMETER SURVEY
INSTRUMENT: SCINTREX MP-2 PROTON MAG
DATUM: 59,000
CONTOUR INTERVAL:
MAGNETIC LOW

BASE STATION RECORDER INFORMATION:
INSTRUMENT: SCINTREX MBS-2
RECORDER RANGE: 100
RECORDING INTERVAL: 10 SECONDS
CHART SPEED: 20 MM / HR

V.L.F. SURVEY
INSTRUMENT: GEONICS EM-16
TRANSMITTER STATION: CUTLER, MAINE
INPHASE READINGS:
OUT OF PHASE READINGS:
PROFILE SCALE: 1 cm = 20%
CONDUCTOR AXIS:
POSITIVE READINGS: EAST OF LINE
CONTOUR INTERVAL:

TOPOGRAPHY
SHORE:
ROAD:
CLAIM POST:



STEEP ROCK IRON MINES LIMITED
ATIKOKAN, ONTARIO

King's Bay Project
STURGEON LAKE AREA

VL.F. PROFILE MAP

Date: November '82 Scale: 1:2500 N.T.S.: 52-J-2
PHANTOM EXPLORATION SERVICES LTD.

52J/02sw-0044# 11

26160

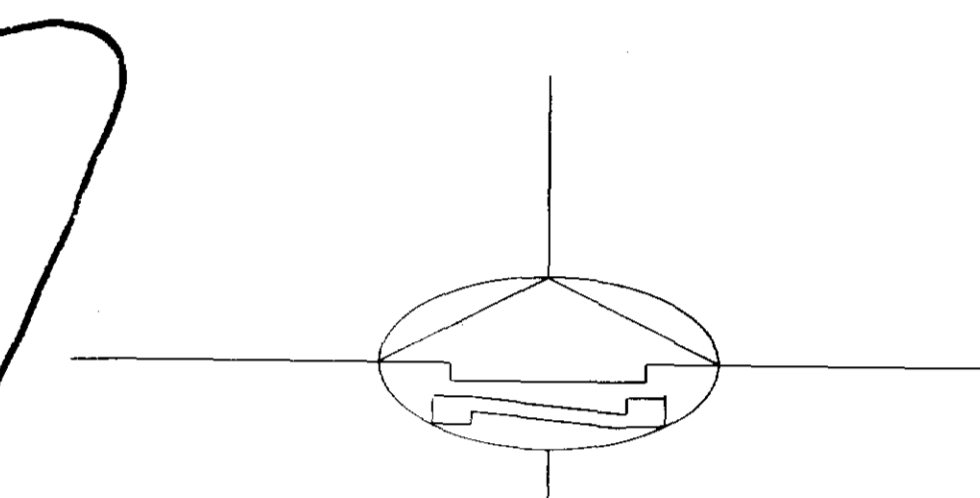
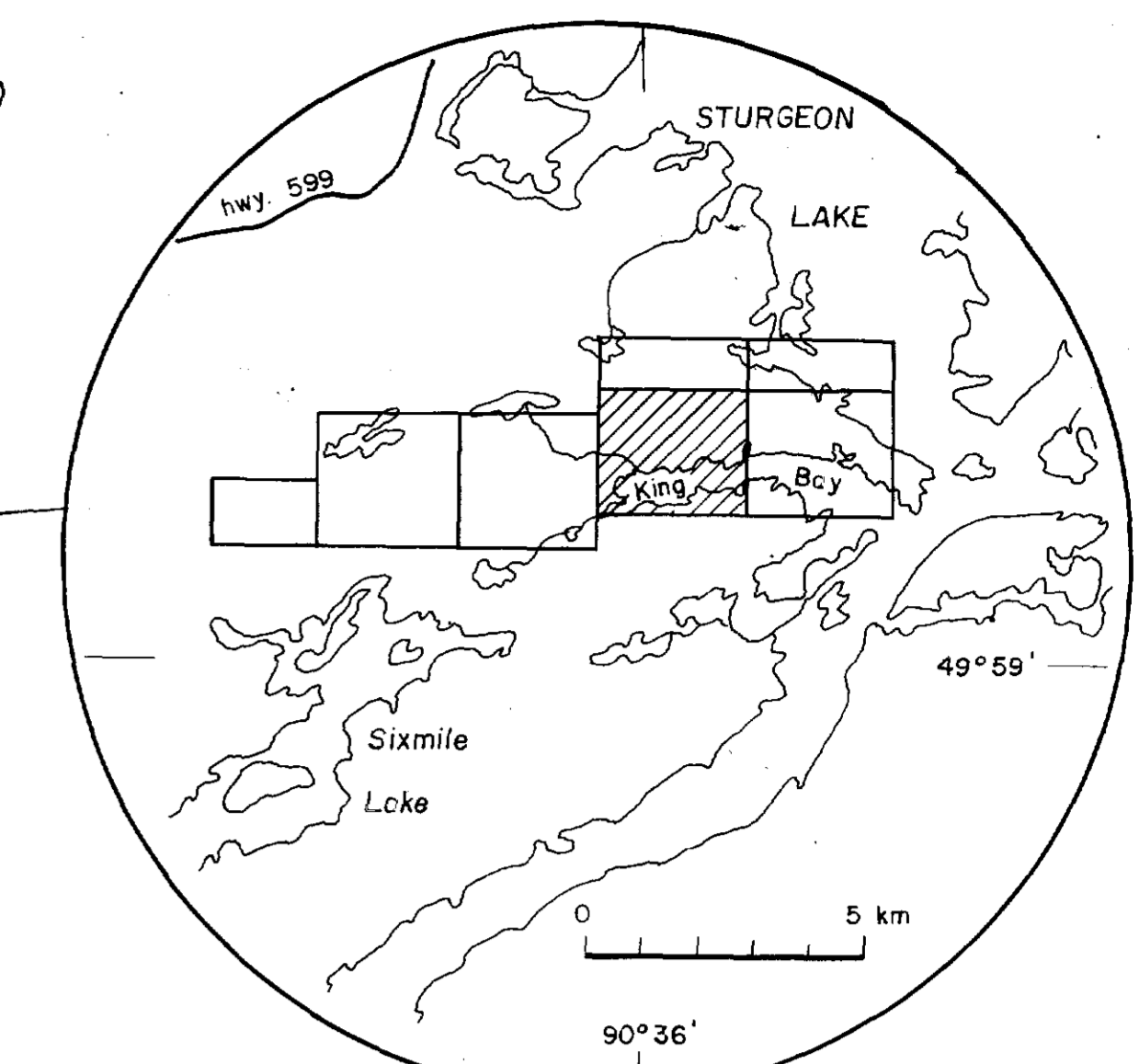
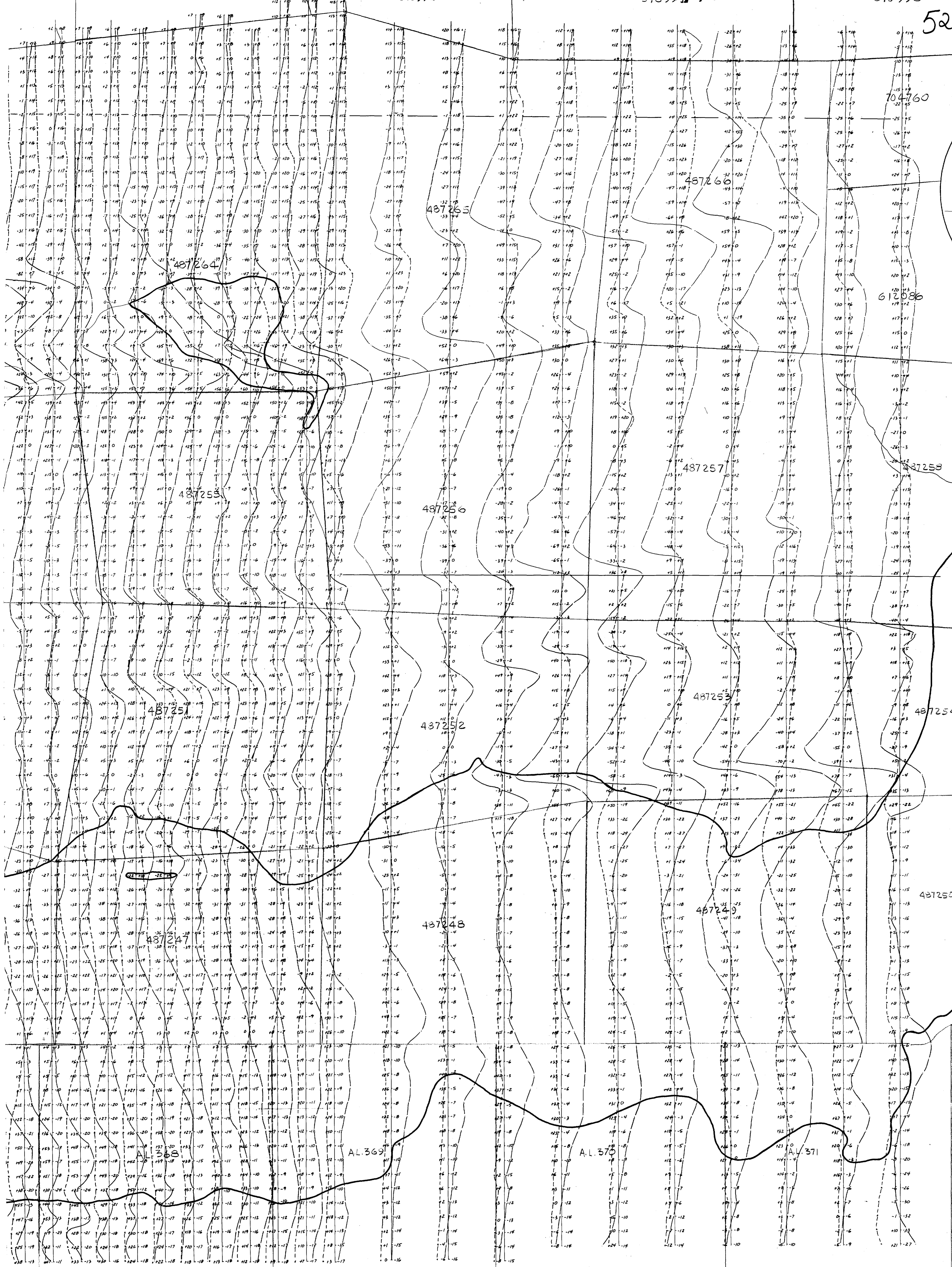
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52J/02SW-0044 #13



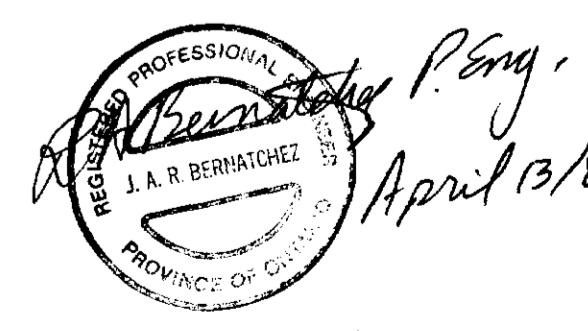
BL 3+00 N

MAGNETOMETER SURVEY
 INSTRUMENT: SCINTREX MP-2 PROTON MAG.
 DATUM: 59,000
 CONTOUR INTERVAL:
 MAGNETIC LOW:

BASE STATION RECORDER INFORMATION:
 INSTRUMENT: SCINTREX MBS-2
 RECORDER RANGE: 100
 RECORDING INTERVAL: 10 SECONDS
 CHART SPEED: 20 MM / HR

V.L.F. SURVEY
 INSTRUMENT: GEONICS EM-16
 TRANSMITTER STATION: CUTLER, MAINE
 INPHASE READINGS:
 OUT OF PHASE READINGS:
 PROFILE SCALE: 1cm = 20%
 CONDUCTOR AXIS:
 POSITIVE READINGS: EAST OF LINE
 CONTOUR INTERVAL:

TOPOGRAPHY
 SHORE:
 ROAD:
 CLAIM POST:

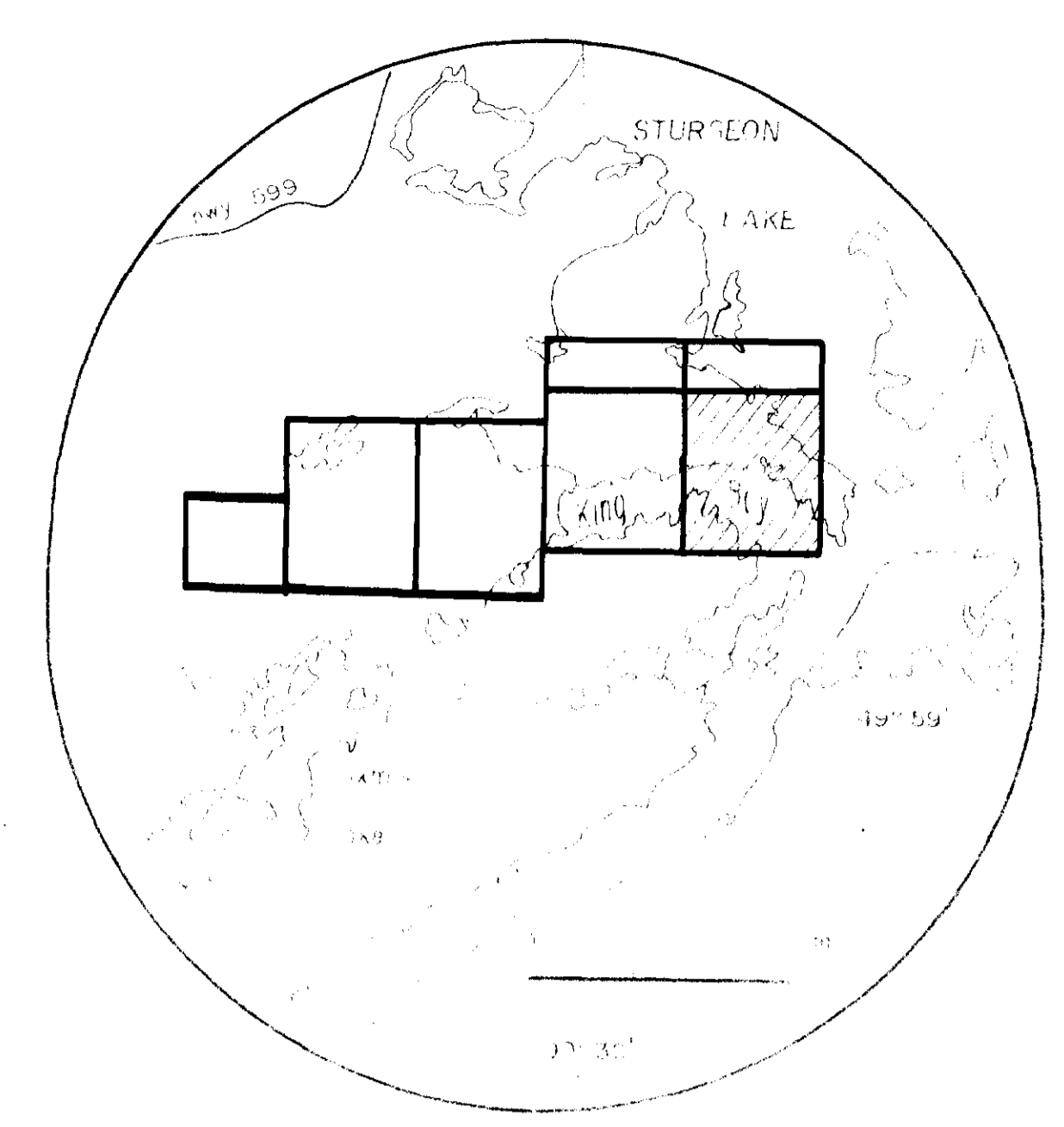
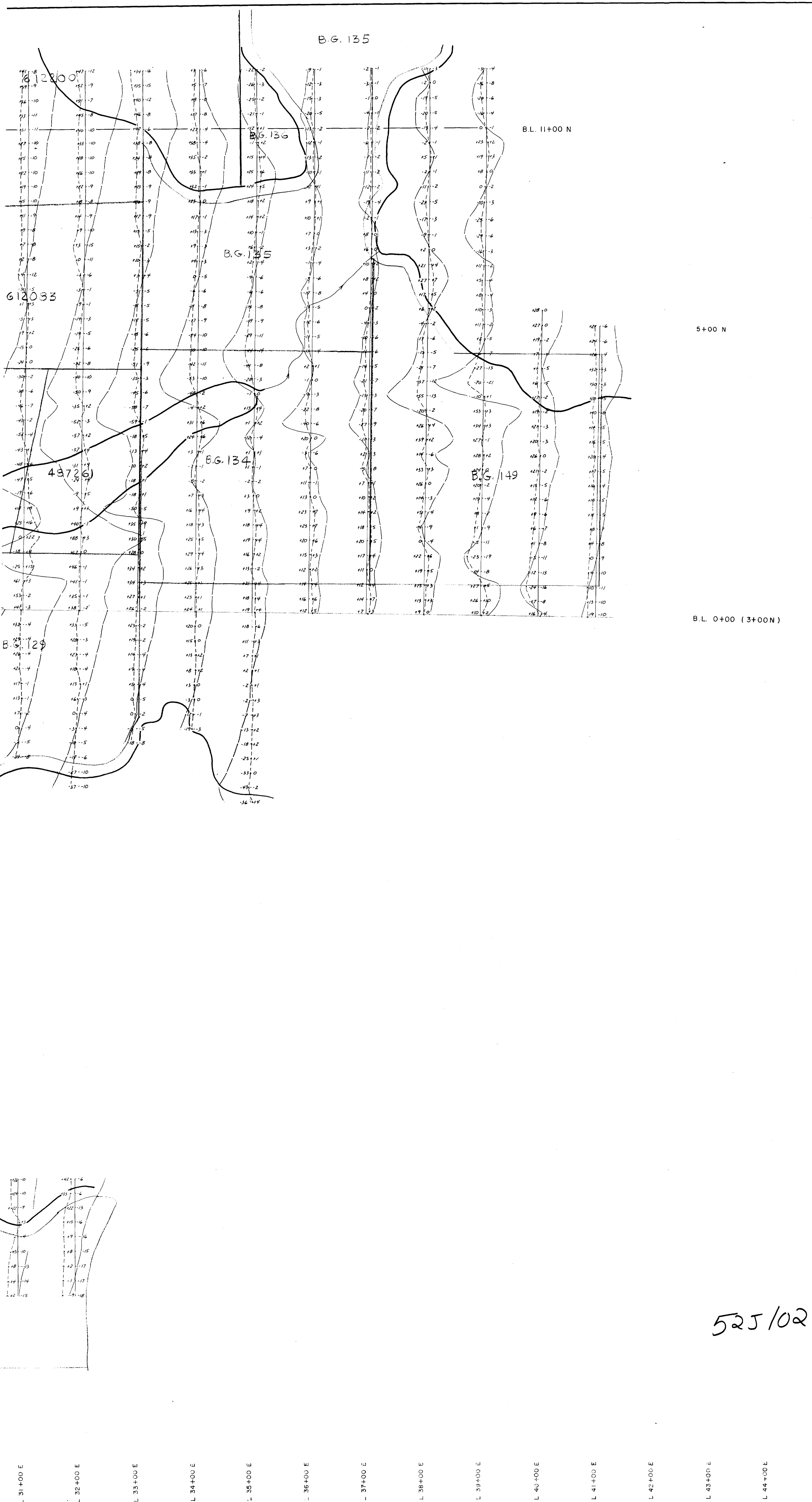


52J/02 SW -0044 #13

STEEP ROCK IRON MINES LIMITED ATIKOKAN, ONTARIO	
King's Bay Project STURGEON LAKE AREA	
VLF PROFILE MAP	
Date: November '82	Scale: 1:2500
N.T.S.: 52-J-2	
PHANTOM EXPLORATION SERVICES LTD.	

L 5+00 E L 6+00 E L 7+00 E L 8+00 E L 9+00 E L 10+00 E L 11+00 E L 12+00 E L 13+00 E L 14+00 E L 15+00 E L 16+00 E L 17+00 E L 18+00 E L 19+00 E L 20+00 E

26/60

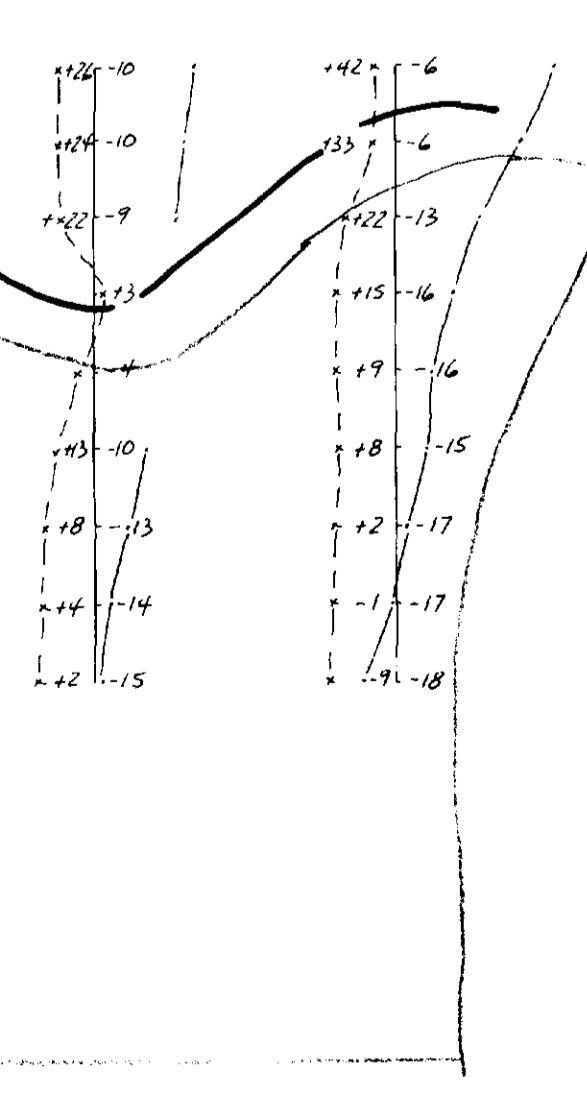


MAGNETOMETER SURVEY
 INSTRUMENT SCINTREX MP 2 PROTON MAG
 DATUM 1950
 CONTOUR INTERVAL
 MAGNETIC LOW

BASE STATION RECORDER INFORMATION
 INSTRUMENT SCINTREX MYS
 RECORDER RANGE 100
 RECORDING INTERVAL 10 SECONDS
 CHART SPEED 20 MM/HR

VLF SURVEY
 INSTRUMENT GEONICS EM-16
 TRANSMITTER STATION OUTLET, VANCE
 INPHASE READINGS
 OUT OF PHASE READINGS
 PROFILE SCALE 1 cm = 20 %
 CONDUCTOR AXIS
 POSITIVE READINGS EAST OF LINE
 CONTOUR INTERVAL

TOPOGRAPHY
 SHORE
 ROAD
 LAMP POST



525/02 SW-0044 # 15

R. A. [Signature]
 PROFESSIONAL SURVEYOR
 APPROVED 12/84
 PROVINCE OF ONTARIO

STEEP ROCK IRON MINES LIMITED ATIKOKAN, ONTARIO	
King's Bay Project STURGEON LAKE AREA	
VLF PROFILE MAP	
Date November '82 Scale 1:2500	N.T.S. 52-J-2
PHANTOM EXPLORATION SERVICES LTD.	

26/60