010

GEOPHYSICAL REPORT
ELECTROMAGNETIC & MAGNETIC SURVEYS
SHOAL LAKE PROJECT - ONTARIO
GRIDS 5A, 5B, 6E & 7C

A.P. Pryslak
April, 1983

A. Introduction

This report deals with results of geophysical surveys conducted over 4 grids situated in the Shoal Lake area of Northwestern Ontario. Two grids are situated in Glass Township, north of Clytie Bay of Shoal Lake. These surveys are part of a follow-up program to an INPUT survey completed by Questor Surveys Limited in the fall of 1981 and are base-metal targets. Grids 6E and 7C are part of a regional exploration program for Cameron Island type gold mineralization.

Access to the properties situated around Shoal Lake is via the Rush Bay Road which connects Clytie Bay of Shoal Lake with the Trans-Canada Highway.

B. Regional Geology

The metavolcanic-metasedimentary sequence forms part of the Wabigoon Subprovince, Superior Province of Archean Age. The O.G.S. Compilation Map 2443 - Kenora - Fort Frances Sheet illustrates the major lithological units for the Shoal Lake area. Detailed geological mapping by Davies gives further information on the geology of the Shoal Lake area.

C. Linecutting

Grids were established over the target areas in January and February, 1983. Lines were spaced at 400-foot intervals and stations were picketed at 100-foot intervals along the lines.

D. Geophysical Surveys

All grids were surveyed using Apex Parametrics Max-Min II units at a frequency of 444 Hz with 400-foot coil separation. Readings were taken at 100-foot station intervals, except in areas of anomalous readings where this was reduced to 50-foot intervals.

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The magnetic survey utilized the Geometrics G-816 unit, serial No.450. Again, readings were at 100-foot intervals, except for areas of anomalous activity where it was reduced to 50-foot stations. All grids were surveyed by the magnetometer.

The VLF-EM survey was carried out over grid 7C. The instrument used for the survey was a Geonics EM 16 unit utilizing the Culter, Maine station.

E. Property 5 - Grid A

(i) Geology - Davies' mapping shows that the grid area is underlain by a sequence of felsic and mafic metavolcanics intruded by minor gabbro sills.

(ii) H.L.E.M. Survey Results - A strong long-trending conductor lies to the north of the Base Line between lines 12+00E and 48+00E. The central and east portions of this feature display widths of 75 to 175 feet or it may also be interpreted as two separate but narrow conductors. The conductors are correlative with a weak positive magnetic anomaly. The amplitude of the magnetic response varies from several tens of gammas to approximately 600 gammas on line 20+00E. This conductor was tested by Selco a number of years ago and was identified as graphic tuff-sediments with minor pyrrhotite, pyrite and sphalerite.

Two short conductors lie approximately 1000-feet to the north of the long conductor. The conductivity is variable along the strike length of both features. The most easterly conductor, which lie south of a small lake, is correlative with a weak magnetic anomaly in the magnetude of 200 gammas. This conductor would appear to lie along the contact of felsic pyroclastics and mafic metavolcanic flows.

The easterly conductor has no apparent correlation with anomalous magnetic responses and is likely due to graphitic tuffs or sediments.

(iii) Magnetometer Survey Results - A narrow positive magnetic anomaly extends from co-ordinate 14N - 40E to 12N - 52E. Elsewhere, the magnetic susceptabilities are low and subtely reflect the trend of lithological units. Several isolated high peaks may reflect errors in reading.

(iv) Recommendations - Minor base-metal mineralization is known to occur in the area just outside the grid. Davies' mapping shows that outcrops over the grid area are abundant. Therefore, it is recommended that the grid be mapped and that particular attention be paid to locating the source of the conductors. Testing of conductors by diamond drilling would be dependant upon results of these geological investigations.

F. Property 5 - Grid B

(i) Geology - Davies' mapping shows that the north part of the grid is underlain by felsic pyroclastics and that the south part is comprised of mafic metavolcanic flows.

(ii) H.L.E.M. Survey Results - Two conductors have been identified by the survey. The conductivity of both features varies from weak to moderate along the strike. The north conductor is strongest at the west while the south conductor has its strongest response at the east end.

Both conductors have moderate magnetic signature but this is also variable along the strike of the conductors.

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(iii) Magnetometer Survey Results - Moderate positive magnetic anomalies are elongated in an east-west direction and display stratigraphic trends. The variation in magnetic response within the mafic volcanic sequence probably is due to minor differences in flow units.

(iv) Recommendations - The conductors should be prospected during the summer months to find their possible source. If these are not located, testing by diamond drilling is recommended.

G. Property 6 - Grid E

(i) Geology - Davies' mapping shows this area to be underlain by the lower tholeiitic volcanic sequence. The south part of the grid is occupied by rocks of the upper calc-alkaline felsic volcanics, with the contact being under the lake and approximately parallel to the shore in the west part of the grid. The southeast part of the grid is underlain by intrusive rocks of the Canoe Lake Stock.

(ii) H.L.E.M. Survey Results - A total of six conductors were identified by the survey and 3 were subsequently tested by diamond drilling. All conductors are comprised of chert-pyrrhotite units intraformational to mafic volcanic flows.

Conductor No.1 - Co-ordinate 14N, 4+00E to 12N, 20+00E.
Weak to moderate conductor with a weak flanking magnetic anomaly. Tested by diamond drilling on L8E, 12N.

Conductor No.2 - Co-ordinate 2N, 4+00E to 1N, 28+00E.
A strong magnetic response flanks the conductor to the south. This is correlative with a mafic-ultramafic flow versus more normal basalts situated north of the conductor which have a low magnetic signature.

5/...

Conductor No.4 - Co-ordinate 7N, 48+00E, to 10N, 68+00E.
This conductor was tested by diamond drilling on L52E and is due to chert-pyrrhotite.

Conductor No.5 - Co-ordinate 8S, 60+00E.
This strong, single line feature is situated near the contact of the volcanics and the Canoe Lake Stock. It was tested by diamond drilling and is due to an intraformational unit of chert-pyrrhotite.

Conductor No.6 - Co-ordinate 2S, 0+00.
This weak conductor with high quadrature response is likely due to minor chert-sulphide bands associated with the transition zone between the tholeiitic volcanics and the calc-alkaline volcanics. This transition zone was tested by drilling on line 8+00E and intersected such mineralization.

(iii) Magnetometer Survey Results - Positive magnetic features are related either to chert-pyrrhotite zones or magnetite-bearing ultramafic units. The areas of magnetic response are occupied either by normal basalt flows in the north part of the grid or by the calc-alkaline sequence in the south part.

(iv) Recommendations - Conductor No.2 is situated in an area of topographic high and is likely to be exposed in outcrop. This should be checked and sampled for gold mineralization.

H. Property 7 - Grid C

(i) Geology - This grid lies east of Clytie Bay and north of Bag Bay of Shoal Lake. Davies' mapping shows that the east end of the grid is underlain by intrusive rocks of the Canoe Lake Stock. Mafic volcanics, gabbro and ultramafic rocks occupy the central part of the grid and felsic pyroclastics are exposed along the protrusion of the shoreline.

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The above volcanic sequence is interpreted to be stratigraphically equivalent to the sequence in the vicinity of Cameron Island.

The Crown Point mine is located within the Canoe Lake granodiorite. Gold mineralization here is associated with quartz veins.

In 1968, Olympia Mines carried out diamond drilling on a sulphide zone situated east of the base line in the central part of the property.

(ii) H.L.E.M. Survey Results - Three strong bedrock conductors have been identified by this survey. These fall within the mafic-ultramafic volcanic sequence. Drilling by Olympia Mines identified one of the conductors as due to chert-pyrrhotite with minor nickel and copper values. It is uncertain if the drilling tested only one or both of the two parallel conductors situated east of the base line. The third conductor, lying between the base line and the shore line is likely similar in nature to that encountered by the drilling.

A weak conductor situated at the east end of the grid between lines 261N and 269N appears to conform with the contact of the volcanic sequence and the Canoe Lake Stock.

A weak, single line response occurs at co-ordinate 65E, 245N. The quadrature response is greater than the in-phase, suggesting a lake bottom sediment response.

(iii) Magnetometer Survey Results - A zone of positive magnetic response, approximately 600-feet wide, extends from the area north of the base line on 237+00N to the area south of the base line on 281+00N. This magnetic feature identifies a sequence of ultramafic flows and pyrrhotite-bearing cherts and basalts.

7/...

The area of low magnetic response along the west portion of the grid correlates with felsic metavolcanics and the low magnetic response to the east of the positive magnetic anomaly correlates with the granodiorite of the Canoe Lake Stock.

(iv) VLF-EM Survey Results - Numerous conductors have been identified by this survey. The VLF survey shows that the two HLEM conductors situated east of the base line are in fact separate conductors and not a single broad feature. Some of the features coincide with shore line or areas of topographic lows. Geological mapping is required to see if some of the features are due to structures within the bedrock.

(v) Recommendations - Geological mapping is recommended prior to any testing for gold mineralization by diamond drilling.

A P Poplsh

2.5474

1983 10 05

Mr. Wade Mathew
Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5160
Kenora, Ontario
P9N 3X9

Dear Sir:

RE: Geophysical (Electromagnetic and Magnetometer) Survey on mining claims K 533164 et al in the Areas of Shoal Lake, Echo Bay and Boys Township.

The Geophysical (Electromagnetic and Magnetometer) survey assessment work credits as listed with my Notice of Intent dated September 7, 1983 have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-1380

D. Kinvig:mc

Encl.

cc: Selco Inc
55 University Avenue
Suite 1700
Toronto, Ontario M5J 2H7

cc: T. Pryslak
534 Berry Street
Winnipeg, Manitoba R3H 0R9

cc: Resident Geologist
Kenora, Ontario

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.5474

Date 1983 09 06

Mining Recorder's Report of Work No. 29-83

Recorded Holder: SELCO INC

Township or Area: ECHO BAY AND BOYS TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	K 564171 to 76 inclusive
Magnetometer 40 days	564178
Radiometric _____ days	589131 to 33 inclusive
Induced polarization _____ days	589145 to 47 inclusive
Other _____ days	589152 to 54 inclusive
Section 77 (19) See "Mining Claims Assessed" column	589161
Geological _____ days	590008-09
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☒ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

20 DAYS MAGNETOMETER

K 564170
590010

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 (19) — 60:

828 (83/6)

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.5474

Date 1983 09 06

Mining Recorder's Report of Work No. 29-83

Recorded Holder: SELCO INC

Township or Area: ECHO BAY AND BOYS TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	K 564171 to 76 inclusive 564178 589131 to 33 inclusive 589145 to 47 inclusive 589152 589154 589161 590008-9
Electromagnetic 20 days	
Magnetometer ____ days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☒ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

10 DAYS ELECTROMAGNETIC

K 564170
589153
590010

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 (19) — 60:

828 (83/6)

Ministry of
Natural
Resources

Ontario

Sept. 28/83

Your file: 29-83

1983 09 07

Our file: 2.5474

Mr. Wade Mathew
Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5160
Kenora, Ontario
P9N 3X9

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

DK D. Kinvig:mc

Encls:

cc: Selco Inc
55 Univeristy Avenue
Suite 1700
Toronto, Ontario
M5J 2H7

cc: T. Pryslak
534 Berry Street
Winnipeg, Manitoba
R3H 0R9

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
845 Toronto, Ontario

Ministry of Natural Resources

Ontario

Notice of Intent

for Technical Reports

1983 09 06

2.5474/29-83

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

Ministry of Natural Resources
Ontario

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

TO. F. MATHEWS TORONTO
Apr. 22nd

18-83.

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.

SHOAL - P6

The Mining Act

Type of Survey(s)	Township or Area
Geophysical	Shoal Lake M2339
Claim Holder(s)	**Prospector's Licence No.**
Selco Inc.	T190
Address	
55 University Ave., Suite 1700, Toronto, Ontario M5J 2H7	
Survey Company	**Date of Survey (from & to)** Day / Mo. / Yr. — **Total Miles of line Cut**
Selco Inc.	17 01 83 — 08 02 83 — 15 miles
Name and Address of Author (of Geo-Technical report)	
T.Pryslak - 534 Berry St., Winnipeg, Manitoba R3H 0R9	

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	564170	
	564171	
	564172	
	564173	
	564174	
	564175	
	564176	
	564178	
	590008	
	590009	
	590110	

See previous work for this claim

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
MAR 17 1983
MINING LANDS SECTION

KENORA MINING DIV.
RECEIVED
FEB 21 1983
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

Total number of mining claims covered by this report of work: 11

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 Recorder
660	FEB. 21/83	
	Date Approved as Recorded	Branch Director

Date: Feb. 17. 83 — Recorded Holder or Agent (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
A. Pryslak - 534 Berry St., Winnipeg, Manitoba R3H 0R9

K-564170.

Date Certified: Feb. 10, 1983 — Certified by (Signature)

1362 (81/9)

FWM

#31-83

Ministry of Natural Resources — Ontario

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

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.

Shoal - P5 Grid 'A'

The Mining Act

Type of Survey(s): Geophysical	Township or Area: M1949
Claim Holder(s): Selco Inc.	Prospector's Licence No.: T190
Address: 55 University Ave., Suite 1700 , Toronto, Ontario M5J 2H7	
Survey Company: Selco Inc.	Date of Survey (from & to): Day / Mo. / Yr. — Feb. '83 — Day / Mo. / Yr.
Total Miles of line Cut: 9.5 mls.	
Name and Address of Author (of Geo-Technical report): T. Pryslak - 534 Berry Street, Winnipeg, Manitoba R3H 0R9	

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	589131	
	589132	
	589133	
	589145	
	589146	
	589147	
	589152	
	589153	
	589154	
	589161	

RECEIVED
APR 15 1983
MINING LANDS SECTION

KENORA MINING DIV.
RECEIVED
MAR 25 1983
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

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.

589127

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

Date: Mar 21 · 83

Recorded Holder or Agent (Signature):

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
600	Mar 25/83	
	Date Approved as Recorded	Branch Director

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: T. Pryslak - 534 Berry Street, Winnipeg, Manitoba R3H 0R9

Date Certified: March 14, 1983

Certified by (Signature):

1362 (81/9)

FWM

Ministry of Natural Resources
Ontario

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

#30-83

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.

2.5474

Shoal - P5 Grid 'B'

The Mining Act

Type of Survey(s)	Township or Area
Geophysical	M1949
Claim Holder(s)	**Prospector's Licence No.**
Selco Inc.	T190
Address	
55 University Ave., Suite 1700, Toronto, Ontario M5J 2H7	
Survey Company	**Date of Survey (from & to)** Day | Mo. | Yr. — Day | Mo. | Yr.	**Total Miles of line Cut**
Selco Inc.	Feb. '83	4 mls.
Name and Address of Author (of Geo-Technical report)	
T. Pryslak - 534 Berry Street, Winnipeg, Manitoba R3H 0R9	

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	623794	
	623795	
	589134	
	589155	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
APR 15 1983
MINING LANDS SECTION

KENORA MINING DIV.
RECEIVED
MAR 25 1983
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

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.

589134

Total number of mining claims covered by this report of work. 4

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
240	Mar 25/83	
	Date Approved as Recorded	Branch Director
	83.09.07	

Date: May. 21. 83 — Recorded Holder or Agent (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
T. Pryslak - 534 Berry Street, Winnipeg , Manitoba R3H 0R9

Date Certified: March 14, 1983 — Certified by (Signature)

1362 (81/9)

FWM

#29-83

Ministry of Natural Resources
Ontario

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

Shoal P7 Grid 'C'

The Mining Act

2.5474

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.

Type of Survey(s)	Township or Area
Geophysical	M2339
Claim Holder(s)	**Prospector's Licence No.**
Selco Inc.	T190
Address	
55 University Avenue, Suite 1700, Toronto, Ontario M5J 2H7	
Survey Company	**Date of Survey (from & to)** Day / Mo. / Yr. – Day / Mo. / Yr.	**Total Miles of line Cut**
Selco Inc.	Feb. '83	12 mls.
Name and Address of Author (of Geo-Technical report)	
T. Pryslak - 534 Berry Street, Winnipeg, Manitoba R3H 0R9	

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	533164				
	533165				
	533166				
	533167				
	533168				
	533169				
	623402				
	623659				
	623660				
	623791				
	623792				
	623793				

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MAR 15 1983
MINING LANDS SECTION

KENORA MINING DIV.
MAR 25 1983
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

533164

Total number of mining claims covered by this report of work. 12

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 Recorder
960	Mar. 25/83	
	Date Approved as Recorded	Branch Director
	83.09.07	

Date Mar 21. 83. Recorded Holder or Agent (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

T. Pryslak - 534 Berry Street, Winnipeg, Manitoba R3H 0R9

Date Certified: March 14, 1983

Certified by (Signature)

1362 (81/9)

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.5474

May 24/83

Mining Lands Comments

☑ To: Geophysics Mr. Roger Barlow

Comments

☑ Approved ☐ Wish to see again with corrections | Date May 9/83 | Signature R Blk

☐ 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)

SELCO INC.

55 University Avenue Suite 1700
Toronto Ontario M5J 2H7 Telephone: (416) 361 0794
Telex: 06 22537 Cable: Selcoex Toronto

April 21, 1983

Ministry of Natural Resources
Mining Lands Section
Room 6450, Whitney Block
Queen's Park
Toronto, Ontario

Dear Sir,

RE: SHOAL PROJECT - PROPERTY 6 - M.2339

Further to my letter (April 13, 1983) in which I enclosed the Report and drawings for this group of claims; I have now received the final drawings SO 3580 and SO 3580B, please find copies enclosed.

Yours very truly,

SELCO INC.

J.E. Rackley
Claims Control Co-ordinator

JER:rt
Encl.

1983 04 21 2.5474

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5160
Kenora, Ontario
P9N 3X9

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 K 533164 et al in the Areas of Shoal Lake, Echo Bay and Boys Township.

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 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

A. Barr:sc

cc: Selco Incorporated
Toronto, Ontario

Attention: Ms. J.E. Rackley.

SELCO INC.

55 University Avenue Suite 1700
Toronto Ontario M5J 2H7 Telephone: (416) 361 0794
Telex: 06 22537 Cable: Selcoex Toronto

April 13, 1983

Ministry of Natural Resources
Mining Lands Section
Room 6450, Whitney Block
Queen's Park
Toronto, Ontario

Dear Sir,

RE: SHOAL PROJECT - PROPERTY 6 - M.2339

Further to our Report of Work (Feb. 16, 1983) please find enclosed the following:-

CONTENT

(in duplicate)

Geophysical Report
Technical Data Sheets
Drawings No. SO 3580 (B)

I apologize for submitting preliminary drawings, our field operations were working under a tight time-frame and I am expecting the finished drawings to be available within 2 weeks.

Yours very truly,

SELCO INC.

J.E. Rackley
Claims Control Co-ordinator

JER:rt
Encl.

SELCO INC.

55 University Avenue Suite 1700
Toronto Ontario M5J 2H7 Telephone: (416) 361 0794
Telex: 06 22537 Cable: Selcoex Toronto

April 13, 1983

Ministry of Natural Resources
Mining Lands Section
Room 6450, Whitney Block
Queen's Park
Toronto, Ontario

Dear Sir,

RE: SHOAL PROJECT - PROPERTIES 5 & 7 - M.1949, 2339

Further to our Report of Work (March 21, 1983) please find enclosed the following:-

CONTENT

(in duplicate)

Geophysical Reports
Technical Data Sheets
Drawings No. SO 3547, 3547B, 3547C
SO 3548, 3548B
SO 3550, 3550B

Yours very truly,

SELCO INC.

J.E. Rackley
Claims Control Co-ordinator

JER:rt
Encl.

Ontario

Ministry of Natural Resources

File SHOAL - P5
GRID 'A'

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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) Geophysical
Township or Area M.1949
Claim Holder(s) Selco Inc. - 55 University Ave.,
Suite 1700, Toronto, Ontario M5J 2H7
Survey Company Selco Inc.
Author of Report A.P. Pryslak
Address of Author 534 Berry St., Winnipeg, Man. R3H 0R9
Covering Dates of Survey Feb.'83 - Mar. '83
(linecutting to office)
Total Miles of Line Cut 6.5 miles

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	20
–Magnetometer	40
–Radiometric	
–Other	
Geological	
Geochemical	

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Apr. 14. 83 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2.3416

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
K	589131
K	589132
K	589133
K	589145
K	589146
K	589147
K	589152
K	589153
K	589154
K	589161

RECEIVED
APR 15 1983
MINING LANDS SECTION

TOTAL CLAIMS 10

If space insufficient, attach list

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations EM=383 Mag=530 Number of Readings EM=383 Mag=530

Station interval 50' (same at 100') Line spacing 400'

Profile scale 1":20%

Contour interval Every 100 Gammas to 500 Gammas
Every 500 Gammas thereafter

MAGNETIC

Instrument Geometrics G816

Accuracy – Scale constant ± 1 gamma

Diurnal correction method Base Station

Base Station check-in interval (hours)

Base Station location and value Intersection at Base Lines and Cross Lines

ELECTROMAGNETIC

Instrument Apex Max-Min II

Coil configuration Horizontal

Coil separation 125m and 250m

Accuracy ± 0.5%

Method: ☐ Fixed transmitter ☐ Shoot back ☑ In line ☐ Parallel line

Frequency 444 Hz
(specify V.L.F. station)

Parameters measured In-phase and quadrature components of secondary field as a percentage of primary field.

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

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

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken_____

Total Number of Samples_____

Type of Sample_____
(Nature of Material)

Average Sample Weight_____

Method of Collection_____

Soil Horizon Sampled_____

Horizon Development_____

Sample Depth_____

Terrain_____

Drainage Development_____

Estimated Range of Overburden Thickness_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis_____

General_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others_____

Field Analysis (_____tests)

Extraction Method_____

Analytical Method_____

Reagents Used_____

Field Laboratory Analysis

No. (_____tests)

Extraction Method_____

Analytical Method_____

Reagents Used_____

Commercial Laboratory (_____tests)

Name of Laboratory_____

Extraction Method_____

Analytical Method_____

Reagents Used_____

General_____

Ontario

Ministry of Natural Resources

File SHOAL - P5
GRID 'B'

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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) Geophysical
Township or Area M.1949
Claim Holder(s) Selco Inc. - 55 University Ave.
Suite 1700, Toronto, Ontario M5J 2H7
Survey Company Selco Inc.
Author of Report A.P. Pryslak
Address of Author 534 Berry St., Winnipeg, Man. R3H 0R9
Covering Dates of Survey Feb.'83 - Mar.'83
(linecutting to office)
Total Miles of Line Cut 4 miles

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	20
--Magnetometer	40
--Radiometric	
--Other	
Geological	
Geochemical	

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Apr. 14 .83 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2.3416

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
K	623794
K	623795
K	589134
K	589135

If space insufficient, attach list

RECEIVED
APR 15 1983
MINING LANDS SECTION

TOTAL CLAIMS 4

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations EM=207 Mag=257 Number of Readings EM=207 Mag=257

Station interval 50' (some at 100') Line spacing 400'

Profile scale 1":20%

Contour interval Every 100 Gammas to 500 Gammas
Every 500 Gammas thereafter

MAGNETIC

Instrument Geometrics G816

Accuracy -- Scale constant ± 1 gamma

Diurnal correction method Base Station

Base Station check-in interval (hours)

Base Station location and value Intersection at Base Lines and Cross Lines

ELECTROMAGNETIC

Instrument Apex Max-Min II

Coil configuration Horizontal

Coil separation 125m and 250m

Accuracy ± 0.5%

Method: ☐ Fixed transmitter ☐ Shoot back ☑ In line ☐ Parallel line

Frequency 444 Hz
(specify V.L.F. station)

Parameters measured In-phase and quadrature components of secondary field as a percentage of primary field.

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

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

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken_____

Total Number of Samples_____

Type of Sample_____
(Nature of Material)

Average Sample Weight_____

Method of Collection_____

Soil Horizon Sampled_____

Horizon Development_____

Sample Depth_____

Terrain_____

Drainage Development_____

Estimated Range of Overburden Thickness_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis_____

General_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others_____

Field Analysis (_____tests)

Extraction Method_____

Analytical Method_____

Reagents Used_____

Field Laboratory Analysis

No. (_____tests)

Extraction Method_____

Analytical Method_____

Reagents Used_____

Commercial Laboratory (_____tests)

Name of Laboratory_____

Extraction Method_____

Analytical Method_____

Reagents Used_____

General_____

Ontario

Ministry of Natural Resources

File SHOAL - P7
GRID 'C'

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

**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) Geophysical
Township or Area M.2339
Claim Holder(s) Selco Inc. - 55 University Ave.,
Suite 1700, Toronto, Ontario M5J 2H7
Survey Company Selco Inc.
Author of Report A.P. Pryslak
Address of Author 534 Berry St., Winnipeg, Man. R3H 0R9
Covering Dates of Survey Feb.'83 - Mar.'83
(linecutting to office)
Total Miles of Line Cut 12 miles

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	40
–Magnetometer	40
–Radiometric	
–Other	
Geological	
Geochemical	

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Apr. 14. SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2.3416

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
K	533164
K	533165
K	533166
K	533167
K	533168
K	533169
K	623402
K	623659
K	623660
K	623791
K	623792
K	623793

If space insufficient, attach list

RECEIVED
APR 15 1983
MINING LANDS SECTION

TOTAL CLAIMS 12

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations EM=530 Mag=683 Number of Readings EM=530 Mag=683

Station interval 50' (some at 100') Line spacing 400'

Profile scale 1":20%

Contour interval Every 100 Gammas to 500 Gammas
Every 500 Gammas thereafter

MAGNETIC

Instrument Geometrics G816

Accuracy – Scale constant ± 1 gamma

Diurnal correction method Base Station

Base Station check-in interval (hours)

Base Station location and value Intersection at Base Lines and Cross Lines

ELECTROMAGNETIC

Instrument Apex Max-Min II

Coil configuration Horizontal

Coil separation 125m and 250m

Accuracy ± 0.5%

Method: ☐ Fixed transmitter ☐ Shoot back ☑ In line ☐ Parallel line

Frequency 444 Hz (specify V.L.F. station)

Parameters measured In-phase and quadrature components of secondary field as a percentage of primary field.

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

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

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

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_____

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_____

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations VLF=580 Number of Readings VLF=580

Station interval 50' and 100' Line spacing 400'

Profile scale 1":20%

Contour interval

Instrument

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

Instrument Geonics EM16

Coil configuration N/A

Coil separation N/A

Accuracy IP 1":50% QP 1": 20%

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency 17.8 KHz Cutler NAA
(specify V.L.F. station)

Parameters measured In-phase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field.

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

Ontario

Ministry of Natural Resources

File SHOAL - P6
GRID 'E'

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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) Geophysical
Township or Area M.1949
Claim Holder(s) Selco Inc. - 55 University Ave.,
Suite 1700, Toronto, Ontario M5J 2H7
Survey Company Selco Inc.
Author of Report A.P. Pryslak
Address of Author 534 Berry St., Winnipeg, Man. R3H 0R9
Covering Dates of Survey Feb.'83 - Apr.'83
(linecutting to office)
Total Miles of Line Cut 8.5 miles

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	20
--Magnetometer	40
--Radiometric	
--Other	
Geological	
Geochemical	

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Apr 14.83 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2.3416

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
K	564170
K	564171
K	564172
K	564173
K	564174
K	564175
K	564176
K	564178
K	590008
K	590009
K	590010

If space insufficient, attach list

RECEIVED
APR 15 1983
MINING LANDS SECTION

TOTAL CLAIMS 11

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations EM=479 Mag=519 Number of Readings EM=479 Mag=519

Station interval 100' (some at 50') Line spacing 400'

Profile scale 1":20%

Contour interval Every 100 Gammas -1000 to +1000
Every 1000 Gammas thereafter

MAGNETIC

Instrument Geometrics G816

Accuracy – Scale constant ± 1 gamma

Diurnal correction method Base Station

Base Station check-in interval (hours)

Base Station location and value Intersection at Base Lines and Cross Lines

ELECTROMAGNETIC

Instrument Apex Max-Min II

Coil configuration Horizontal

Coil separation 125m and 250m

Accuracy ± 0.5%

Method: ☐ Fixed transmitter ☐ Shoot back ☑ In line ☐ Parallel line

Frequency 444 Hz
(specify V.L.F. station)

Parameters measured In-phase and quadrature components of secondary field as a percentage of primary field.

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

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

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken_____

Total Number of Samples_____

Type of Sample_____
(Nature of Material)

Average Sample Weight_____

Method of Collection_____

Soil Horizon Sampled_____

Horizon Development_____

Sample Depth_____

Terrain_____

Drainage Development_____

Estimated Range of Overburden Thickness_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis_____

General_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others_____

Field Analysis (_____tests)

Extraction Method_____

Analytical Method_____

Reagents Used_____

Field Laboratory Analysis

No. (_____tests)

Extraction Method_____

Analytical Method_____

Reagents Used_____

Commercial Laboratory (_____tests)

Name of Laboratory_____

Extraction Method_____

Analytical Method_____

Reagents Used_____

General_____

2.5474

	Mag.	E.M.	V.L.E.		Mag.	E.M.		Mag.	E.M.	
K.-535164 -	✓	✓	✓	K-564178	✓	✓	K.-590008	✓	✓	
65 -	✓	✓	✓	589131	✓	1/4 ✓	09	✓	✓	
66 -	✓	~1/4	✓	32	~1/4	1/4	590010	~1/2	~1/2	V.L.E.
67 -	✓	✓	✓	33	✓	✓	623402	✓	~1/4 ✓	✓
68 -	✓	✓	✓	589134	✓	✓	623659	✓	✓	✓
533169	✓	✓	✓	589145	✓	✓	623660	✓	✓	✓
564170	1/2	1/2		46	✓	✓	623791	✓	✓	✓
71	✓	✓		589147	✓	✓	92	✓	✓	✓
72	✓	✓		589152	✓	✓	623793	✓	1/4 ✓	✓
73	✓	✓		53	1/2	~1/2	94	✓	✓	
74	✓	✓		54	✓	✓	623795	✓	✓	
75	✓	✓		589155	✓	✓				
564176	✓	✓		589161	✓	~1/4				

- The claims checked in green are listed on the 2 'checked out' Reports of Work. The others are on the revised work statements.

O.K.

NOTES

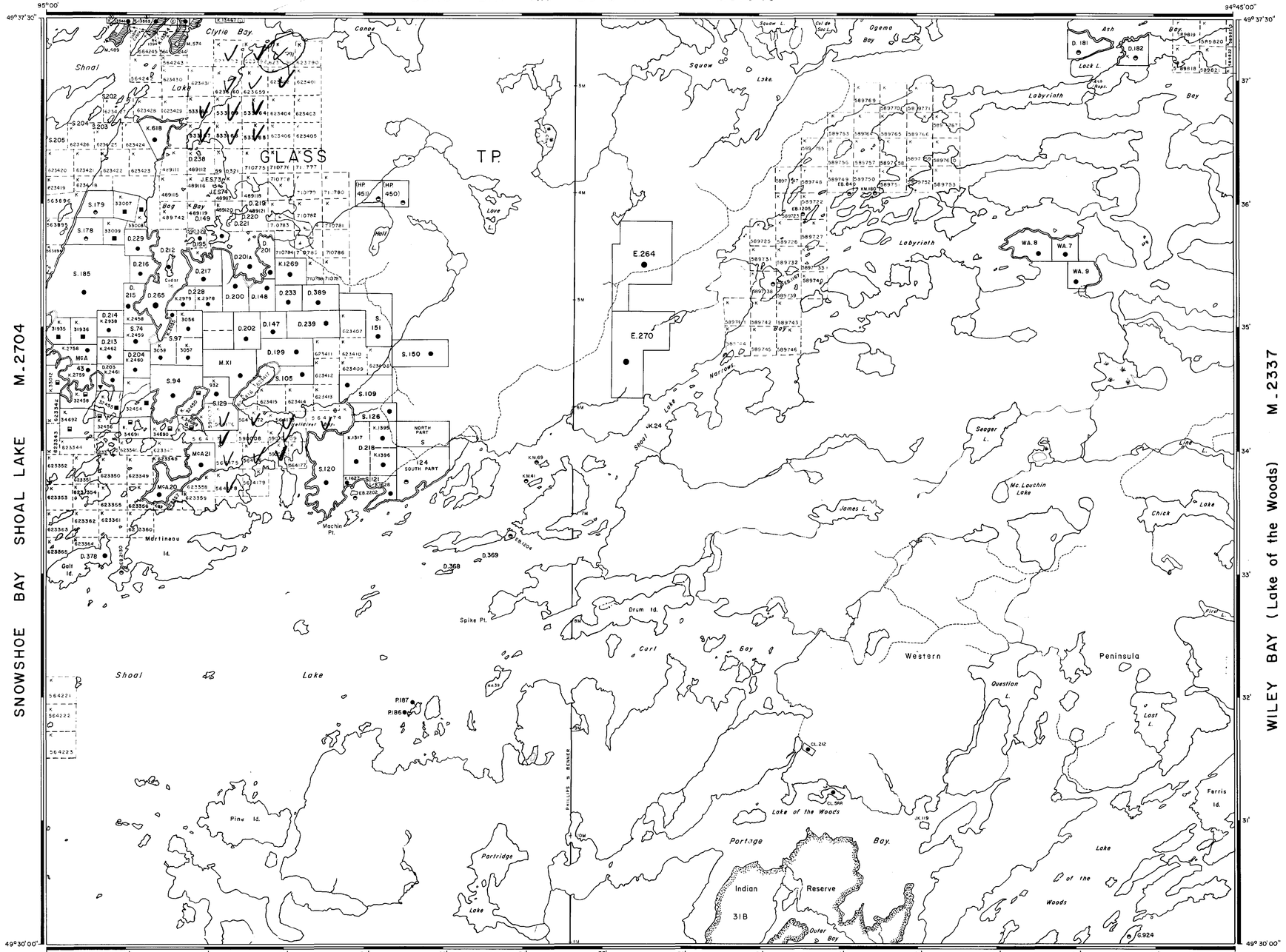
400' surface rights reservation along the shores of all lakes and rivers.

Flooding Rights reserved to 1064' mean sea level.

Islands in Shoal Lake and inlets thereto do not form part of Glass Township

2.5474

ECHO BAY and BOYS TP. M-1949



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. / LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES: LOT LINES / PARCEL BOUNDARY / MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	◒
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◨
" MINING RIGHTS ONLY	◧
LICENCE OF OCCUPATION	▼
CROWN LAND SALE	CS
ORDER-IN-COUNCIL	OC
RESERVATION	(R)
CANCELLED	(C)
SAND & GRAVEL	(S)

SCALE: 1 INCH = 40 CHAINS

FEET 0 500 1000 2000 4000 6000 8000

METRES 0 200 400 600 800 KM 2 KM

ACRES	HECTARES
40	16

AREA

SHOAL LAKE

DATE OF ISSUE AUG 12 1983 Ministry of Natural Resources

DISTRICT **KENORA**

MINING DIVISION

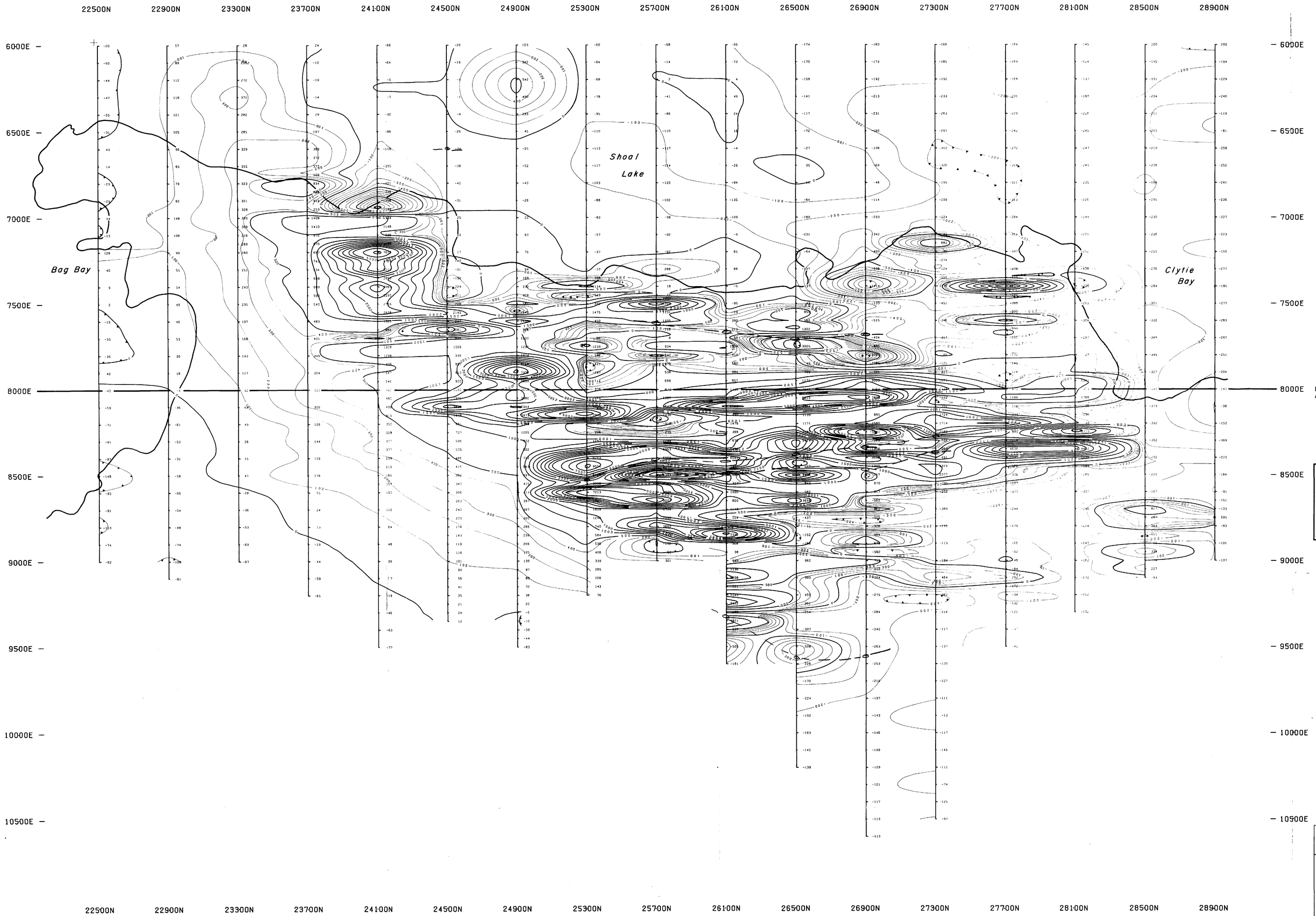
KENORA

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

DATE 10th. SEPTEMBER / 73 | PLAN No. **M-2339**

NATIONAL TOPOGRAPHIC SERIES 52E 10

495 944



MAGNETOMETER INSTRUMENT

TYPE: GEOMETRICS G-816

Readings in Gammas: +10 / -230

Base: 60,000

Profile:

Contour Interval: Every 1000 gammas from -5000 gammas to -1500 gammas
Every 100 gammas from -1500 gammas to 500 gammas
Every 500 gammas to 5000 gammas
Every 1000 gammas thereafter

OTHER INFORMATION	
SEE DRWG. NO.	TYPE
SO.3547B	H.L.E.M., LOCATION PLAN, CLAIMS
SO.3547C	V.L.F.

0 400
FEET

SELCO INC. EXPLORATION

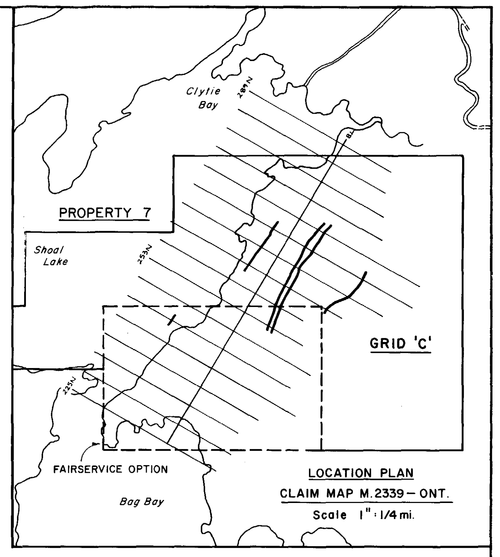
SHOAL LAKE PROJECT

PROPERTY 7, GRID 'C' - OPTION

MAG. SURVEY

DRAWN BY	DATE	N.T.S.	PLAN
L. Carpenter	FEB. 1983		SO.3547
TRACED BY	DATE		
Dataplot S.D.	March 1983		

25474



LOCATION PLAN
CLAIM MAP M.2339 – ONT.
Scale 1" = 1/4 mi.

22500N 22900N 23300N 23700N 24100N 24500N 24900N 25300N 25700N 26100N 26500N 26900N 27300N 27700N 28100N 28500N 28900N

6500E
7000E
7500E
8000E
8500E
9000E
9500E
10000E

BASELINE
AZ. 30°

K 623431
K 533166
K 533167
K 533169
K 533168
K 533165
K 533164
K 623660
K 623659
K 623402
K 623793
K 623792
K 623791

Shoal Lake
Bag Bay
Clytie Bay
W.P.

ELECTROMAGNETIC INSTRUMENT
TYPE: Apex MAX–MIN II
HORIZONTAL LOOP (Percent of Primary Field)
Frequency: 444 Hz.
Cable Length: 400 ft.
In Phase: ●—●— Out of Phase Quadrature
Conductor Width:
Profile Scale: 1" = 20%

OTHER INFORMATION	
SEE DRWG. NO	TYPE
SO.3547 SO.3547C	MAG. V.L.F.

N

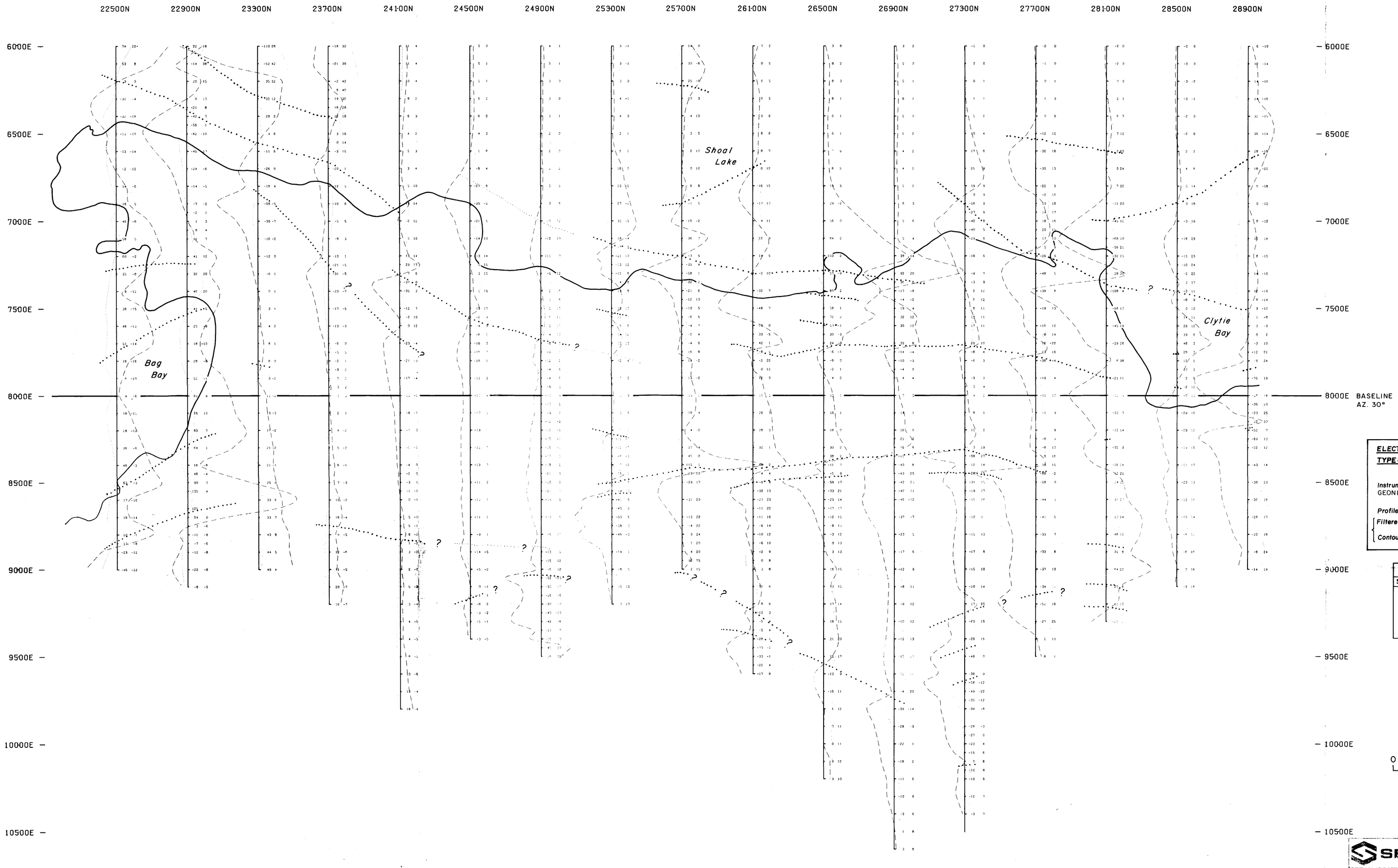
0 400
FEET

SELCO INC. EXPLORATION

SHOAL LAKE PROJECT

PROPERTY 7, GRID 'C' – OPTION
H.L.E.M. SURVEY

DRAWN BY	DATE	N.T.S.	PLAN
L.C.	Feb. 1983		SO.3547B
TRACED BY	DATE		
Dataplot S.J.	March 1983		



ELECTROMAGNETIC INSTRUMENT

TYPE: V.L.F.

Instrument: GEONICS E.M. 16

Station: CUTLER

Profile Scale: I.P. 1": 50% ———
O.P. 1": 20% .....

Filtered Dip Angles (Fraser)

Contour Interval:

OTHER INFORMATION

SEE DRWG. NO	TYPE
SO.3547 SO.3547B	MAG. H.L.E.M., LOCATION PLAN, CLAIMS

N

0 400
FEET

SELCO INC. EXPLORATION

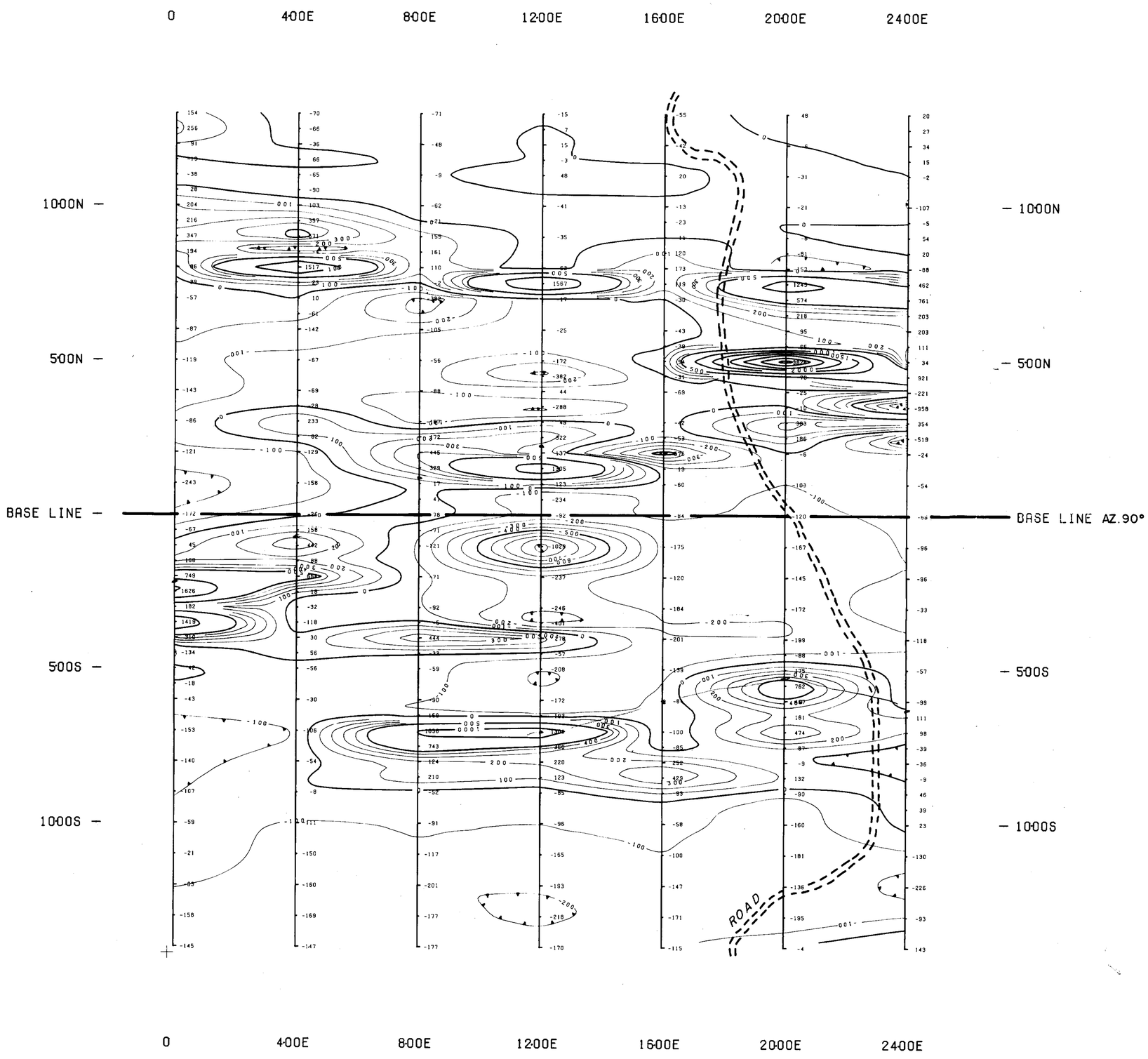
SHOAL LAKE PROJECT

PROPERTY 7, GRID 'C'– OPTION

V.L.F. SURVEY

DRAWN BY	DATE	N.T.S.	PLAN
L.C.	Feb. 1983		SO.3547C
TRACED BY Dataplot S.J.	DATE March 1983		

2.5474



MAGNETOMETER INSTRUMENT

TYPE: GEOMETRICS G 816

Readings in Gammas: [354 / -519]

Base: 60,000 gammas

Profile:

Contour Interval: Every 100 gammas from -1000 to + 500 gammas
Every 500 gammas thereafter.

OTHER INFORMATION	
SEE DRWG. Nº	TYPE
SO.3548 B	H.L.E.M., LOC. PLAN, CLAIMS

0 200 400
FEET

-N-

SELCO INC. EXPLORATION

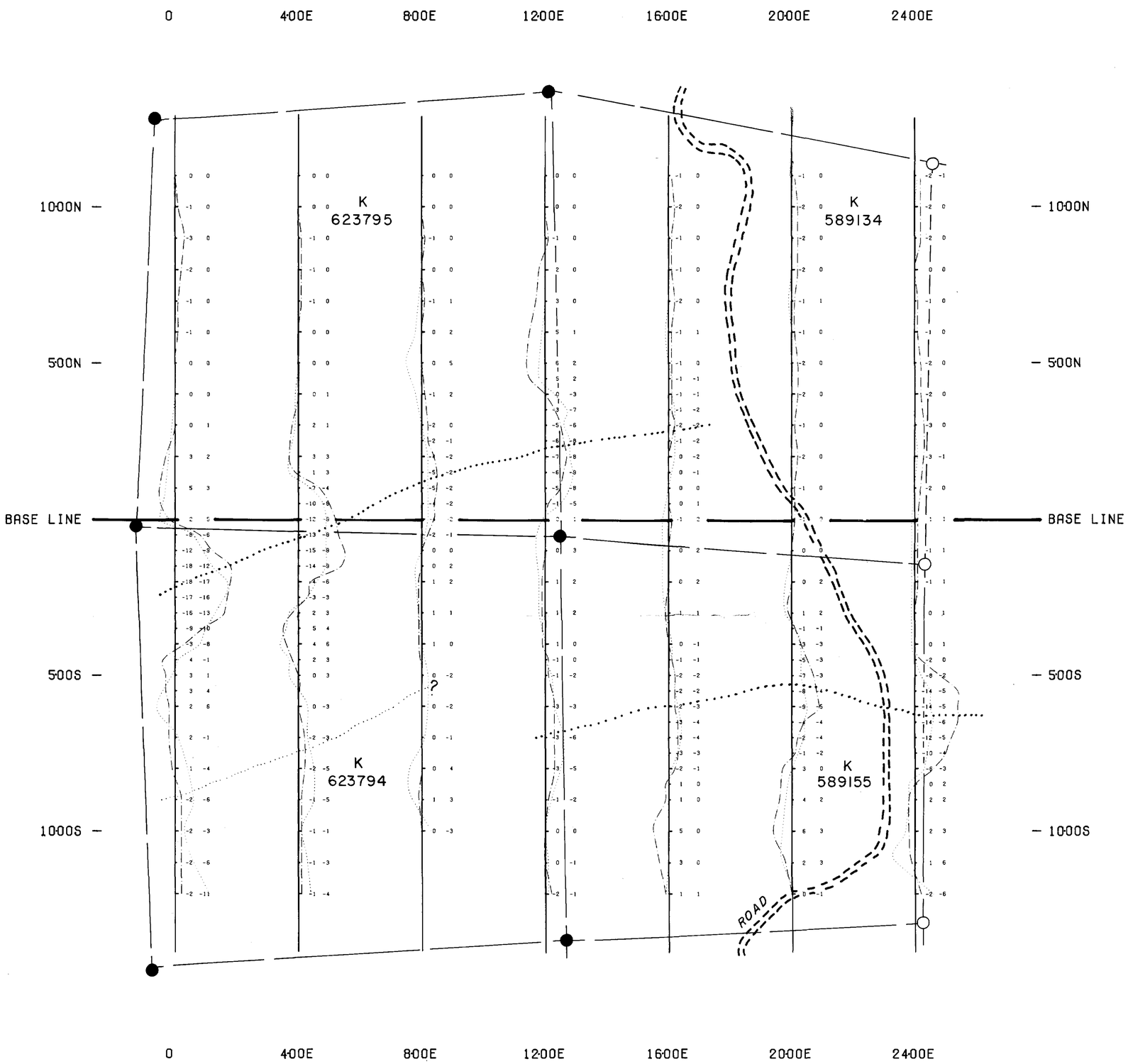
SHOAL LAKE PROJECT

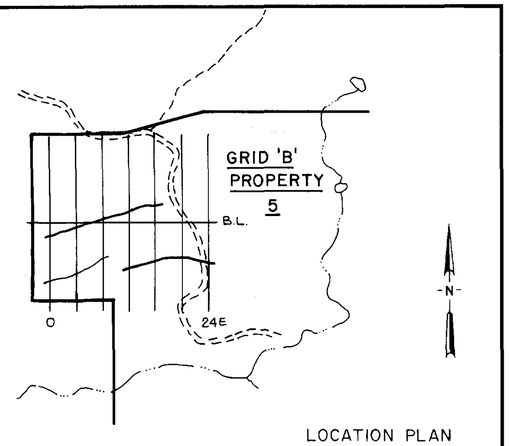
PROPERTY 5 — GRID 'B'

MAG. SURVEY

DRAWN BY L.C.	DATE Feb. 1983	N.T.S.	PLAN SO.3548
TRACED BY Data Plot J.G.	DATE March 1983		

2.5474





LOCATION PLAN
CLAIM MAP M.1945, ONT.
Scale : 1" = 1/4 mile

ELECTROMAGNETIC INSTRUMENT
TYPE: APEX MAX- MIN II

HORIZONTAL LOOP *(Percent of Primary Field)*
Frequency: 444 Hz
Cable Length: 400 ft
In Phase: ●—●→ [1 2 ←●---● *Out of Phase Quadrature*
Conductor Width:
Profile Scale: 1" = 20%

OTHER INFORMATION	
SEE DRWG. Nº	TYPE
SO. 3548	MAG.

0 100 200
FEET

N

SELCO INC. EXPLORATION

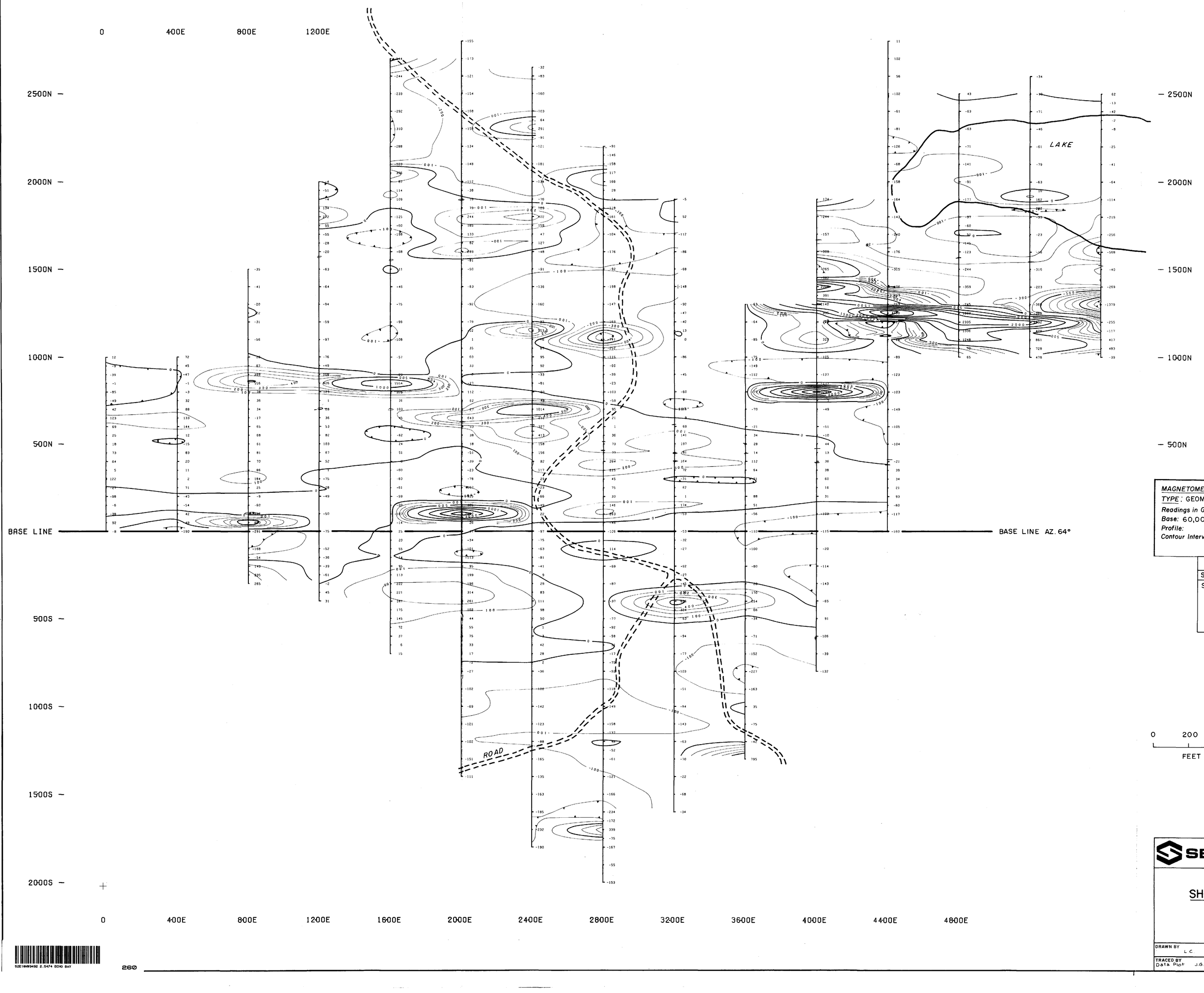
SHOAL LAKE PROJECT

PROPERTY 5 — GRID 'B'

H.L.E.M. SURVEY

DRAWN BY L.C.	DATE Feb. 1983	N.T.S.	PLAN SO.3548B
TRACED BY Data Plot J.G.	DATE March 1983		

2.5474



MAGNETOMETER INSTRUMENT
TYPE: GEOMETRICS G816
Readings in Gammas:
Base: 60,000 gammas
Profile:
Contour Interval: Every 100 gammas from -1300 to +500 gammas
Every 500 gammas thereafter

OTHER INFORMATION	
SEE DRWG. Nº	TYPE
SO.3550B	H.L.E.M., LOC. PLAN, CLAIMS

0 200 400
FEET

N

SELCO INC. EXPLORATION

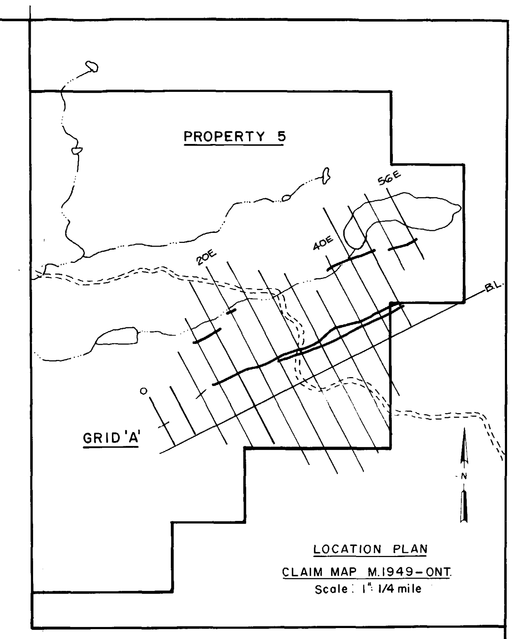
SHOAL LAKE PROJECT

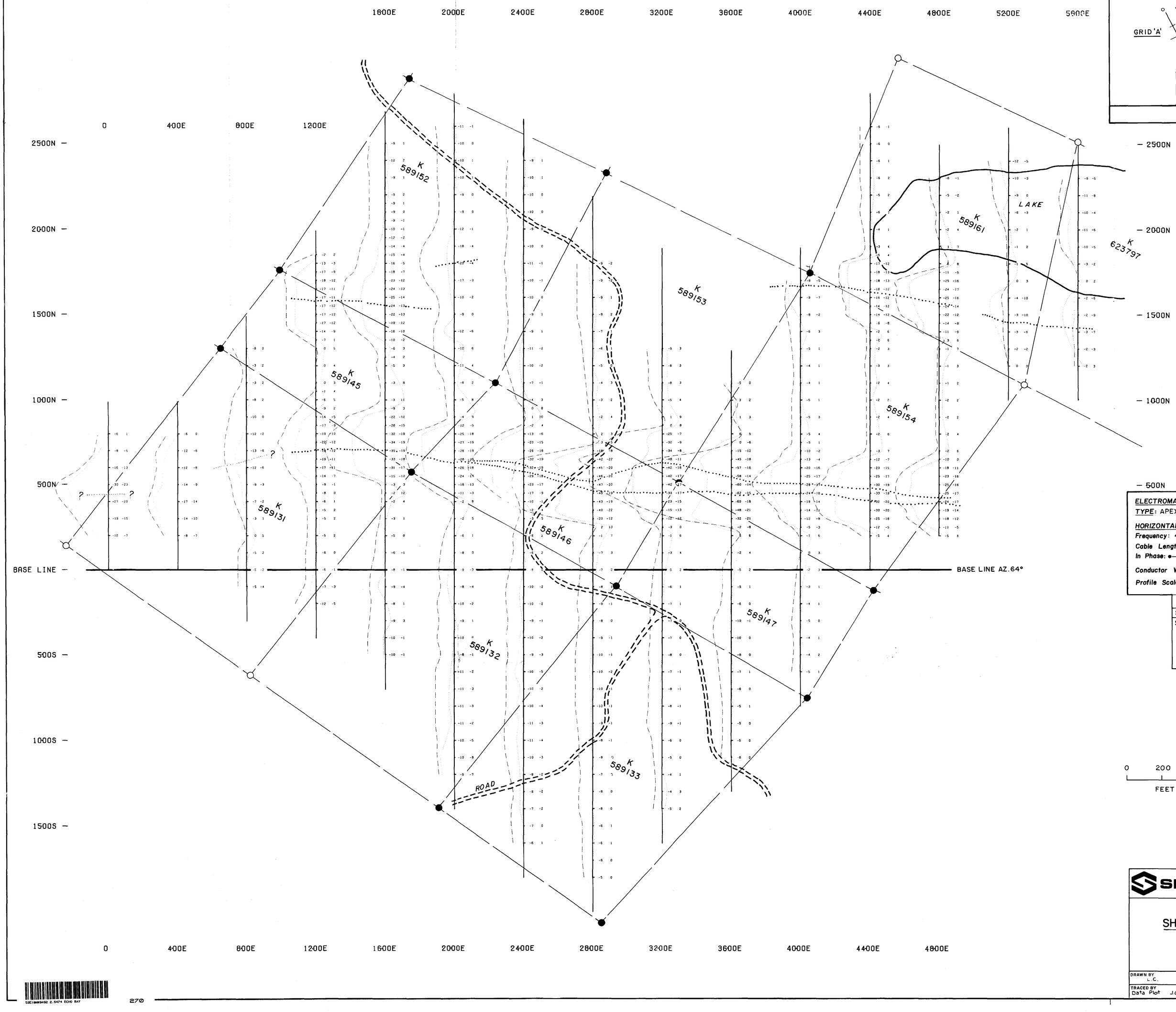
PROPERTY 5 — GRID 'A'

MAG. SURVEY

DRAWN BY	DATE	N.T.S.	PLAN
L.C.	Feb. 1983		SO.3550
TRACED BY Data Plot J.G.	DATE March 1983		

2.5474





ELECTROMAGNETIC INSTRUMENT

TYPE: APEX MAX-MIN II

HORIZONTAL LOOP (Percent of Primary Field)

Frequency: 444 Hz

Cable Length: 400 ft.

In Phase: ●—●→ [2 5 10 ●—●← *Out of Phase Quadrature*

Conductor Width: ▨

Profile Scale: 1" = 20%

OTHER INFORMATION	
SEE DRWG. NO.	TYPE
SO.3550	MAG.

0 200 400

FEET

N

SELCO INC. EXPLORATION

SHOAL LAKE PROJECT

PROPERTY 5 — GRID 'A'

H.L.E.M. SURVEY

DRAWN BY	DATE	N.T.S.	PLAN
L.C.	Feb. 1983		SO.3550B
TRACED BY Data Plot J.G.	DATE March 1983		

270

2.5474

NOTE: REFER TO SO 3580B-H.L.E.M.,CLAIMS,LOC.PLAN

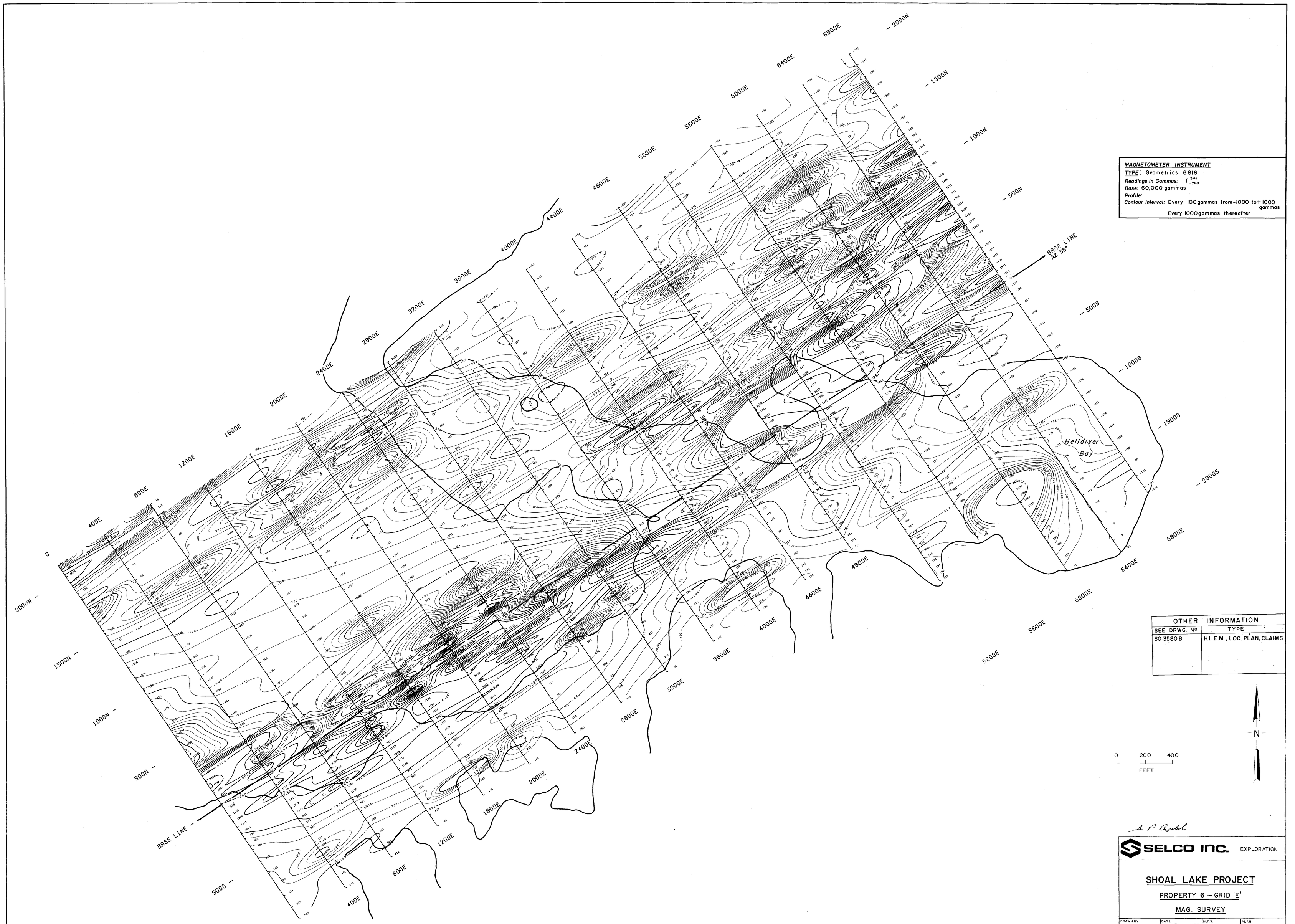
0 200 400 FEET

HELL-DIVER BAY

Base Line O S5°W

Base Line O N55°W

N



MAGNETOMETER INSTRUMENT

TYPE: Geometrics G.816

Readings in Gammas: $\{^{541}_{-768}$

Base: 60,000 gammas

Profile:

Contour Interval: Every 100 gammas from -1000 to + 1000 gammas
Every 1000 gammas thereafter

OTHER INFORMATION	
SEE DRWG. Nº	TYPE
SO.3580 B	H.L.E.M., LOC. PLAN, CLAIMS

N

0 200 400
FEET

SELCO INC. EXPLORATION

SHOAL LAKE PROJECT

PROPERTY 6 – GRID 'E'

MAG. SURVEY

DRAWN BY	DATE	N.T.S.	PLAN
L.C.	Feb. 1983		SO.3580
TRACED BY	DATE		
Data Plot	April 1983	25474	

NOTE: REFER TO SO.3580 - MAG.

PRELIMINARY

0 200 400
FEET

SELCO MINING CORPORATION LIMITED
(EXPLORATION DIVISION)

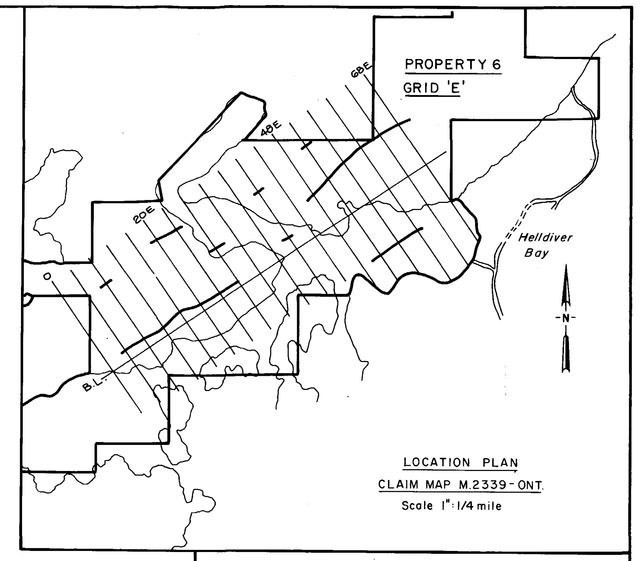
SHOAL LAKE PROJECT
PROPERTY 6 - GRID 'E'
H.L.E.M. SURVEY

DRAWN BY Lawrence Carpenter	DATE February 23, 1983	PLAN No. SO3580B
TRACED BY	DATE	

ELECTROMAGNETIC INSTRUMENT
TYPE: MaxMin II Apex Serial #793
HORIZONTAL LOOP (Percent of Primary Field)
Frequency: 444 Hz
Cable Length: 400ft
In Phase: Out of Phase Quadrature
Conductor Width:
Profile Scale: 1 inch: 20%
Scale: 1:1200
Lake Shore

25474

300



LOCATION PLAN
CLAIM MAP M.2339-ONT.
Scale 1" = 1/4 mile

ELECTROMAGNETIC INSTRUMENT
TYPE: APEX MAX-MIN II

HORIZONTAL LOOP (Percent of Primary Field)
Frequency: 444 Hz
Cable Length: 400 ft
In Phase: ●—●— [20 5 3 —●— *Out of Phase Quadrature*
Conductor Width: ~~~~~
Profile Scale: 1" = 20%

OTHER INFORMATION	
SEE DRWG. NO.	TYPE
SO.3580	MAG.

BASE LINE AZ. 55°

CLAIM BOUNDARY ON SHORE LINE

Helldiver Bay

K 564170
K 564171
K 564172
K 564173
K 564174
K 564175
K 564176
K 564178
K 590008
K 590009
K 590010

0 200 400
FEET

N

SELCO INC. EXPLORATION

SHOAL LAKE PROJECT

PROPERTY 6 – GRID 'E'

H.L.E.M. SURVEY

DRAWN BY	DATE	N.T.S.	PLAN
L.C.	Feb. 1983		SO.3580B
TRACED BY	DATE	25474	
Data Plot	April 1983		

310