REPORT
ON
GEOPHYSICAL SURVEYS
ON THE PROPERTY OF
GOLD ISLAND RESOURCES LTD.
LOWER LAKE ABITIBI, ONTARIO

by

PROSPECTING GEOPHYSICS LTD.

WILLOWDALE, ONTARIO

MAY 18, 1983

REPORT
ON
GEOPHYSICAL SURVEYS
ON THE PROPERTY OF
GOLD ISLAND RESOURCES LTD.
LOWER LAKE ABITIBI, ONTARIO

INTRODUCTION

Gold Island Resources Ltd. owns a 320 acre property covering what is referred to as Shaft Island in Lower Lake Abitibi and has recently acquired by staking an additional 80 claims surrounding the original property.

A V.L.F. (very low frequency) electromagnetic survey combined with a magnetic survey has recently been completed on the entire 88 claims. The following report and accompanying maps describe the surveys and give an interpretation of the results.

PROPERTY

The property is located in Lower Abitibi Lake, Larder Lake Mining Division of Ontario, some 17 miles west of the Ontario-Quebec boundary. It consists of 88 unpatented mining claims which include the original 8 claims covering Shaft Island and vicinity and the 80 additional claims recently staked.

The entire claim group is shown on the accompanying maps and these are registered with the Ministry of Natural Resources of Ontario as follows:

L616579-L616580
L616589 to L616593
L616570
L680907 to L680986 → no work reported

PROPERTY (cont'd)

The claims are mostly covered by the lake with the exception of a few islands as shown on the accompanying maps.

GEOLOGY

The regional geology is described by M. B. Baker in the Ontario Bureau of Mines Vol. XVIII, 1909, with an accompanying map. This shows the area to be largely underlain by Keewatin volcanics that include intermediate to basic lavas interbedded with tuffs and bands of iron formation. These have been intruded by a hornblende granite batholith which extends from the southeast shore of Lower Abitibi Lake across the north shore of the lake and northeasterly into the Province of Quebec. Cutting both the Keewatin volcanics and the granite, are diabase, gabbro and diorite of late Precambrian age.

The property of Gold Island Resources Ltd., as interpreted from geological mapping of the islands, shows the southeast portion to be underlain by the Keewatin volcanics and the remainder by one of the younger diorite intrusives. The volcanic-diorite contact crosses the south tip of Shaft Island in a direction approximating N50°E. The northwestern three-quarters of the property appears to be underlain by the diorite and the older Keewatin volcanics underlie the southeast quarter.

From previous work on the islands, a number of bluish quartz veins have been reported in the diorite trending N80°W to N80°E. They appear to be best developed within about 1,000 feet of the diorite contact. Only one of these veins has been

GEOLOGY (cont'd)

explored in any detail and that is the one on Shaft Island. The vein crosses the northern part of the island for a length of about 250 feet where it is still open at both ends and goes off the island. The vein varies in width from 5 inches to 4 feet and is mineralized with fine pyrite and minor amounts of chalcopyrite, pyrrhotite and sphalerite. The vein is entirely within diorite and, in places, the wall rock is sheared for a few inches to two feet on either side of the vein.

SURVEY METHODS AND INSTRUMENT DATA

The geophysical surveys were carried out over the entire 88 claims with reconnaissance lines over the ice that have been picketed and tied into the islands. The lines were north-south and at 400 foot intervals as shown on the accompanying maps.

The equipment used in the electromagnetic survey was the Geonics EM-16 system. The V.L.F. method uses the radiation from powerful military radio transmitters at low frequencies as primary signals as opposed to portable transmitters in the conventional E.M. methods. The transmitter station used in the present survey is located at Annapolis, Maryland.

The instrument has two receiving coils and the parameters measured are:

(1) The vertical in-phase component.
(2) The vertical out-of-phase component. (quadrature component)

SURVEY METHODS AND INSTRUMENT DATA (cont'd)

The interpretation of the results uses the relative measurements of these two parameters and it is possible to outline such poor conductors as sheared contacts, breccia zones, faults, and alteration zones, as well as good sulphide conductors. Because V.L.F. anomalies are produced by a wide range of geological affects, profiles tend to show a complex "cluttered" pattern and additional assistance is required to distinguish trends. By the use of the Fraser method of filtering tilt angle profiles, the readings are converted into contourable data and it is this data that are plotted on the accompanying map.

The magnetic survey was carried out over the same network of lines using a Geometrics E-816 Proton magnetometer. The magnetometer measures the earth's total magnetic field in gammas. Readings were taken at 100 foot intervals with some detail readings at 50 foot intervals. These are plotted as gammas on a separate map after correction for diurnal variation. All conductor axes have been plotted on the magnetic map to aid in the interpretation.

RESULTS OF THE GEOPHYSICAL SURVEYS

The results of the electromagnetic survey are shown on Map 1, on a scale of 300 feet to the inch, accompanying this report. An examination of the map shows a number of conductive zones trending in a general east-west direction. Some of the conductive zones are quite strong but some of the high readings

RESULTS OF THE GEOPHYSICAL SURVEYS (cont'd)

are near the shoreline of the islands. It is quite possible some of this conductivity is due to the shore line rather than conductivity in the underlying rocks. The conductors are lettered A, B, C, D, etc. for reference purposes and the axes have been superimposed on Map No. 2 which shows the results of the magnetic survey.

The main feature showing on the magnetic map is a well-defined, although somewhat irregular, zone of quite high readings trending in a northeasterly direction. The zone starts in the southwest corner of the property and extends northeasterly for a distance of about two miles which takes it past Shaft Island. The magnetic values within this zone range from 800 to as high as 8,000 gammas, compared to a background of 100 to 300 gammas. The magnetic zone more or less parallels the assumed diorite-volcanic contact and is situated just north of the contact.

The interpretation of this zone is that it probably represents a highly altered contact zone within the diorite. The magnetic values to the south of the magnetic anomaly are generally quite low ranging from 100 to 300 gammas and these probably represent the volcanics. The magnetic anomaly representing the probable alteration is about 3,000 feet wide and it is within this anomaly that some of the main conductive zones are found. These include E, F, G, H, I, J, K, L, N and W zones as shown on Map No. 2.

RESULTS OF THE GEOPHYSICAL SURVEYS (cont'd)

It would appear from the magnetics that the diorite ends just northeast of Shaft Island and Camp Island to the north. This would indicate that the northeast corner of the property, which is devoid of conductive zones, is underlain by volcanics. Shaft Island is thus close to the nose of the diorite and the area of the magnetic anomaly would appear to be favourable for gold-bearing quartz veins.

A brief description of the above-mentioned conductive zones within this favourable area follows:

"E" Zone consists of a medium to weak conductor with a strike of N80^{o}W which conforms with the strike of the known quartz veins in the diorite.

"F" Zone is a fairly strong but short conductor just north of Camp Island. It should be pointed out here that the shore outlines as shown on the geophysical maps are not accurate due to the presence of the snow and ice and the wide spacing of the lines. It is possible that "F" zone represents the shore line of the island rather than a conductor in the underlying rocks. However, its position at the nose of the diorite warrants some investigation.

"G" Zone consists of a series of discontinuous conductors within an area of quite high magnetic readings. These warrant investigation but, unfortunately, they are in the lake and not in close proximity to an island.

RESULTS OF THE GEOPHYSICAL SURVEYS (cont'd)

"H" Zone is a good conductor with a length of over 2,000 feet situated just north of an island. The best part of the conductor is that portion close to the island and thus some of the conductivity may be due to the shoreline.

"I" Zone is similar to "H" zone and, again, the strongest conductivity is just north of a small island.

"J" Zone is a fairly continuous conductor with a strike ranging from about N80°W to N80°E. It is strongest at the east end and warrants some further investigation.

"K", "L" and "W" Zones are all located on a fairly large island to the southwest of Shaft Island. It is referred to as Island "D" and is underlain by diorite but is close to the diorite-volcanic contact. The conductivity is very high and the magnetic readings suggest considerable alteration. All of these factors suggest a strong possibility of sulphides being present. There is also a strong conductor just north of the island but this would appear to be due to the shoreline.

"N" Zone includes three short strong conductive zones at the north end of Shaft Island, in the vicinity of the gold-bearing vein. These are largely due to high readings obtained just off-shore and it is difficult to determine if these are due to shoreline or the gold-bearing zone. Further correlation with previous drill results is necessary.

"Q" and "R" Zones are in the vicinity of an island situated some 3,000 feet southwest of Shaft Island. This

RESULTS OF THE GEOPHYSICAL SURVEYS (cont'd)

island is referred to as Island "C" and the east end has been mapped as diorite. It must be quite close to the volcanic-diorite contact and thus any conductors on the island warrant investigation.

There are several other conductors in the volcanics in the southeast corner of the property, in the vicinity of what is referred to as Island "B". Some of these are on the island and can possibly be investigated by geological examination.

CONCLUSIONS AND RECOMMENDATIONS

The geophysical surveys have been successful in outlining what appears to be a fairly wide favourable zone within the diorite, trending northeast, There are a number of significant conductive zones within this zone, all of which are relatively close to the diorite-volcanic contact. These conductors warrant further investigation as it is quite possible that some represent sulphides and there is the possibility of similar gold-bearing quartz veins to that occurring on Shaft Island.

Summer exploration must, of necessity, be confined to the islands on the property and thus immediate prospecting and geological mapping is recommended for islands "B", "C", and "D", all of which contain conductive zones. Following this initial work, the results should be evaluated to determine if a diamond drilling program is warranted. It is quite

Ministry of Natural Resources
Ontario

W8308000981 Lands manag

Report of Work
(Geophysical, Geological, Geochemical and Expenditures) # 9

File # L 616570

The M

32D13SW0004 2.5584 SULPHUR ISLAND

900

Type of Survey(s)	Township or Area
GEOPHYSICAL	SULPHUR ISLAND G-6

Claim Holder(s)	Prospector's Licence No.
DON McKINNON	M-15389

Survey Company	Survey Dates (linecutting to office)	Total Miles of line Cut
PROSPECTING GEOPHYSICS LTD	21 03 83 (Day | Mo. | Yr.) to Day | Mo. | Yr.	9 miles

Name and Address of Author (of Geo-Technical report)

DAVID ROSS, 169 Perreault Ave., VAL D'OR, Quebec J9P 2H1

Special Provisions Credits Requested

Instructions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	40
	- Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days

Instructions		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

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.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
	see attached	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
MAR 30 1983
MINING LANDS SECTION

LARDER LAKE MINING DIV.
RECEIVED
APR - 5 1983
AM 7 8 9 10 11 12 1 2 3 4 5 PM

Total number of mining claims covered by this report of work. 8

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
480	APR 08	
	Date Approved as Recorded 83.09.26	Provincial Mining Branch Director

Report Completed

Date of Report	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

DAVID ROSS, 169 Perreault Ave., VAL D'OR, Quebec J9P 2H1

	Date Certified	Certified by (Signature)
	31-03-83	

3582 (83/12)

CLAIM NO.	DAYS
L616570	60
616579	60
616580	60
616589	60
616590	60
616591	60
616592	60
616593	60

Above claims on extension to April 29, 1983

Report and map to follow.

Ministry of Natural Resources
Ontario

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

Report #143
Lands Management
File # L680947
The Mining Act 2.5584
July 28th

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): Electromagnetic and Magnetometer	Township or Area: Sulphur Island - M416
Claim Holder(s): L. Patriquin	Prospector's Licence No.: K19872
Address: 169 Perrault Avenue, Val d'Or, P.Q.	
Survey Company: Prospecting Geophysics Ltd.	Date of Survey (from & to): 24 02 83 (Day Mo. Yr.) 18 05 83 (Day Mo. Yr.)
Total Miles of line Cut: 35	
Name and Address of Author (of Geo-Technical report): H. J. Bergmann, 70 Chiswell Cres., Willowdale, Ontario M2N 6E1	

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 - Electromagnetic	40
	- Magnetometer	20
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	

RECEIVED
JUN 6 1983
MINING LANDS SECTION

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.
L	680947		L	680970	
	680948			680971	
	680949			680972	
	680950			680973	
	680951			680974	
	680952			680975	
	680953			680976	
	680954			680977	
	680955			680978	
	680956			680979	
	680957			680980	
	680958			680981	
	680959			680982	
	680960			680983	
	680961			680984	
	680962			680985	
	680963			680986	
	680964				
	680965				
	680966				
	680967				
	680968				
	680969				

LARDER LAKE MINING DIV.
RECEIVED
MAY 30 1983
AM 7 8 9 10 11 12 PM 1 2 3 4 5 6
Total number of mining claims covered by this report of work: 40

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
2400	May 30, 1983	
	Date Approved as Recorded: 83.09.26	Branch Director

Date	Recorded Holder or Agent (Signature)
May 25/83	H. J. Bergmann

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
H. J. BERGMANN - 70 Chiswell Crescent, Willowdale, ONT. M2N 6E1

Date Certified	Certified by (Signature)
May 25/83	H. J. Bergmann

3382 (83/9)

Ministry of Natural Resources
Ontario

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

Report #192

Lands Management

File # L 680907

The Mining Act

2.5584

July 28th

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
Electromagnetic and Magnetometer	Sulphur Island-M416

Claim Holder(s)	Prospector's Licence No.
A. Lecouter	K19873

Address: 1641 Rue Le Baron, Val d'Or, P.Q.

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Prospecting Geophysics Ltd.	24 02 83 (Day, Mo., Yr.) – 18 05 83 (Day, Mo., Yr.)	35

Name and Address of Author (of Geo-Technical report): H. J. Bergmann, 70 Chiswell Crescent, Willowdale, Ontario M2N 6E1

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	40
	- Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

RECEIVED
JUN 6 1983
MINING LANDS SECTION

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

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.

Date	Recorded Holder or Agent (Signature)
May 25/83	[signature]

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	680907		L	680929	
	680908			680930	
	680909			680931	
	680910			680932	
	680911			680933	
	680912			680934	
	680913			680935	
	680914			680936	
	680915			680937	
	680916			680938	
	680917			680939	
	680918			680940	
	680919			680941	
	680920			680942	
	680921			680943	
	680922			680944	
	680923			680945	
	680924			680946	
	680925				
	680926				
	680927				
	680928				

LARDER LAKE MINING DIV.
RECEIVED
MAY 30 1983
AM 7 8 9 10 11 12 1 2 3 4 5 6

Total number of mining claims covered by this report of work: 40

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
2400	May 30, 1983	[signature]
	Date Approved as Recorded: 83.09.26	Branch Director: [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: H.J. BERGMANN – 70 Chiswell Crescent, Willowdale, Ont. M2N 6E1

Date Certified	Certified by (Signature)
May 25/83	[signature]

1362 (81/9)

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

June 30/83

File 2.5584

Mining Lands Comments

☑ To: Geophysics Mr. Barlow.

Comments

☑ Approved ☐ Wish to see again with corrections | Date Sept 1/83 | Signature

☐ To: Geology - Expenditures

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Geochemistry

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

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

1593 (81/10)

98-L 616570

1983 06 02

2.5584

Mr. George J. Koleszar
Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
KIRKLAND LAKE, Ontario

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 L.616570 et al in the Area of Sulphur Island.

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:eib

cc: Don McKinnon
Box 1130
Timmins, Ontario
P3N 7H9

Prospecting Geophysics Ltd.
70 Chiswell Crescent
Willowdale, Ontario
M2N 6E1

Att: Mr. H. J. Bergmann, P.Eng.

May 24, 1983

Mr. E. F. Anderson, Director
Land Management Branch
Ministry of Natural Resources
Room CA50
Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir:

Enclosed you will find two copies of a report and maps covering geophysical surveys on 88 claims on Lower Seine Lake Area. All work has been recorded with the Mining Recorder in Richard Lake.

If there are any questions on this submission, please contact the writer.

Yours truly,

PROSPECTING GEOPHYSICS LTD.

H. J. Bergmann, P. Eng.

Dear Mr Anderson
I forgot to include the attached Appendix to the Report. Would you please insert them for me
Sincerely
H Bergmann

Ontario

Ministry of Natural Resources

File _____

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) Electromagnetic & Magnetometer
Township or Area Sulphur Island
Claim Holder(s) A. Lecouter
L. Patriquin
Survey Company Prospecting Geophysics Ltd.
Author of Report H. J. Bergmann
Address of Author 70 Chiswell Crescent, Willowdale, Ont
Covering Dates of Survey Feb. 24 - May 18, 1983 (linecutting to office)
Total Miles of Line Cut 76

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	20
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: May 18/83 SIGNATURE: H. J. Bergmann
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

RECEIVED
MAY 30 1983
MINING LANDS SECTION

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

See attached list
(prefix) (number)

If space insufficient, attach list

TOTAL CLAIMS 88

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 3850 Number of Readings EM-3850 Magnetic - 4720

Station interval 100 ft. Line spacing 400 ft.

Profile scale

Contour interval Electromagnetic - 10
Magnetic

MAGNETIC

Instrument Geonics E-816 Proton Magnetometer

Accuracy -- Scale constant ± 1 gammas

Diurnal correction method Base stations

Base Station check-in interval (hours) 2

Base Station location and value See map

ELECTROMAGNETIC

Instrument Geonics EM-16

Coil configuration

Coil separation

Accuracy ± 1%

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

Frequency 21.4 kHz Annapolis, Maryland (specify V.L.F. station)

Parameters measured Vertical in-phase component. Vertical out-of-phase component (quadrature)

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 _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

LIST OF CLAIMS

L680907	L680941	L680975
" 908	" 942	" 976
" 909	" 943	" 977
" 910	" 944	" 978
" 911	" 945	" 979
" 912	" 946	" 980
" 913	" 947	" 981
" 914	" 948	" 982
" 915	" 949	" 983
" 916	" 950	" 984
" 917	" 951	" 985
" 918	" 952	" 986
" 919	" 953	L616579
" 920	" 954	L616580
" 921	" 955	L616589
" 922	" 956	L616590
" 923	" 957	L616591
" 924	" 958	L616592
" 925	" 959	L616593
" 926	" 960	L616570
" 927	" 961	
" 928	" 962	
" 929	" 963	
" 930	" 964	
" 931	" 965	
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" 936	" 970	
" 937	" 971	
" 938	" 972	
" 939	" 973	
" 940	" 974	

PROSPECTING GEOPHYSICS LTD.

GEOPHYSICAL & GEOLOGICAL SURVEYS

70 CHISWELL CRESCENT, WILLOWDALE, ONTARIO M2N 6E1 · TEL. 416-226-2388

May 24, 1983

Mr. E. F. Anderson, Director
Land Management Branch
Ministry of Natural Resources
Room 6450
Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir:

Enclosed you will find two copies of a report and maps covering geophysical surveys on 88 claims on Lower Lake Abitibi. All work has been recorded with the Mining Recorder in Kirkland Lake.

If there are any questions on this submission, please contact the writer.

Yours truly,

PROSPECTING GEOPHYSICS LTD.

H. J. Bergmann, P. Eng.

HJB:bss
Encls.

File 2.5584

	Em	Maj
L 680947	✓	✓
948	✓	✓
949	✓	✓
950	✓	✓
951	✓	✓
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946	✓	✓
616570	✓	✓
579	✓	✓
580	✓	✓
589	✓	✓
590	✓	
591	✓	✓
592	✓	✓
593	✓	✓

Tie Line 56 N

680911 680910 680909 680908 680907 680947

A B C D

WP1/680918
WP1/680914
WP1/680916

680916 680915 680914 680913 680912 680948

680921 680920 680919 680918 680917 680949

L A K E

V E

680926 680925 680924 680923 680922 680950

G H I

Base Line 0

680931 680930 680929 680928 680927 616592 61

J M

680936 680935 680934 680933 680932 616593

WP 1/680936
WP 1/680941
WP1/680940

K O

WP 4/680936
WP 3/680931
P 4/680941
P 3/680936

L

680941 680940 680939 680938 680937 680982

P1/680946

WP 3/680943
P 4/680946
WP 3/680946

W Q R

680946 680945 680944 680943 680942 680986

P2/680944
P3/680943

Tie Line 50 S

L72 E L68 E L64 E L60 E L56 E L52 W L48 W L44 W L40 W L36 W L32 W L28 W L24 W L20 W L16 W L12 W L8 W L4 W L0-00 L4 E L8 E

island boulder

Tie Line 56 N

680951 680955 680959 680963 680967

680952 680956 680960 680964 680968

A B I T I B I

680953 680957 680961 680965 680969

F

680954 680958 680962 680966 680970

island

WP4/680955
WP.1/680951

WP2/680950
WP3/680954
WP4/616580
WP1/616592

N

616589 616590 680971 680975

6580

D.D.H

DDH

SHAFT ISLAND

616579 616570 616591 680972 680976

WP 2/616579
WP.3/616570
WP 3/616591
WP2/616591
WP1/680981
WP4/680980

P

island

680981 680980 680979 680973 680977

island

WP 1/680980
WP.4/680979

T

S

O

680982 680984 680974

680983

WP3/680972
WP4/680971

U

680978

WP 2/680978
P 2/680974
P 3/680978

island

P 2/680984
P 3/680983

P 3/680974 P 2/680983

Tie Line 50

L 12 E L 16 E L 20 E L 24 E L 28 E L 32 E L 36 E L 40 E L 44 E L 48 E L 52 E L 56 E L 60 E L 64 E L 68 E L 72 E

N

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680915 680914 680913 680912 680948 680952 680956 680960 680964 680968

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680926 680925 680924 680923 680922 680950 680954 680958 680962 680966 680970

680931 680930 680929 680928 680927 616592 616580 616583 616590 680971 680975

680936 680935 680934 680933 680932 616593 616579 616570 616591 680972 680976

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680946 680945 680944 680943 680942 680986 680985 680984 680983 680974 680978

SCALE 1 inch = 1/2 mile

LEGEND

- MEASUREMENT STATIONS ALONG PICKET LINES
- FRASER REDUCTION METHOD USED
- CONTOUR INTERVAL : + 10
- ELECTRICAL CONDUCTOR
- INSTRUMENT USED : GEONICS EM - 16
- CLAIM POST
- SWAMP

Note Annapolis, Maryland (NSS, 21.4 kHz) Station used. Readings taken facing North, notes calculated S - N.

Very Low Frequency

ELECTROMAGNETIC SURVEY

GOLD ISLAND RESOURCES LTD.

PROJECT: GOLDEN SHAFT ISLAND

AREA: SULPHUR ISLAND
NORTHERN, ONTARIO

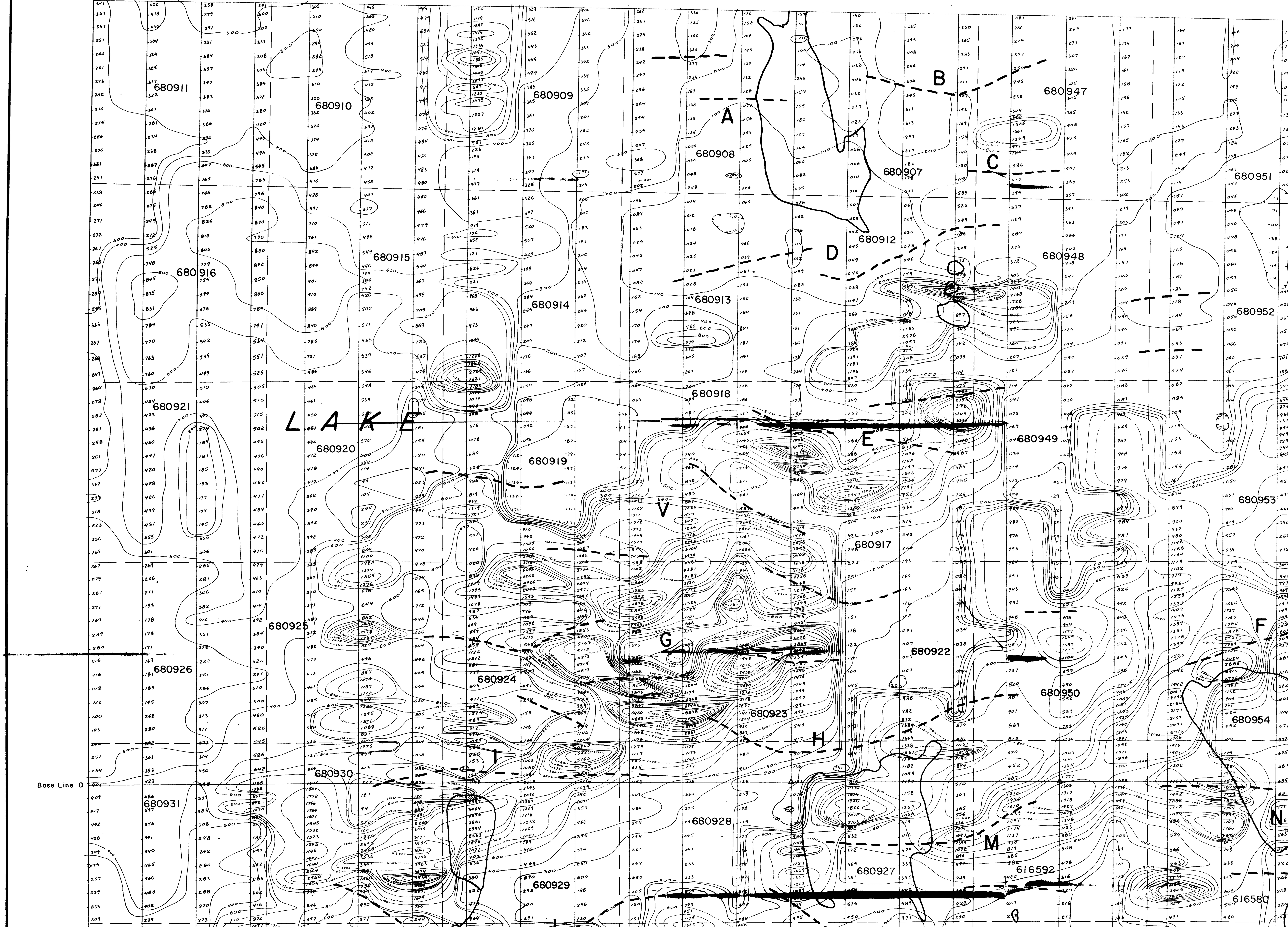
1" = 300 ft

DATE: March, 1983

PROSPECTING GEOPHYSICS LTD.

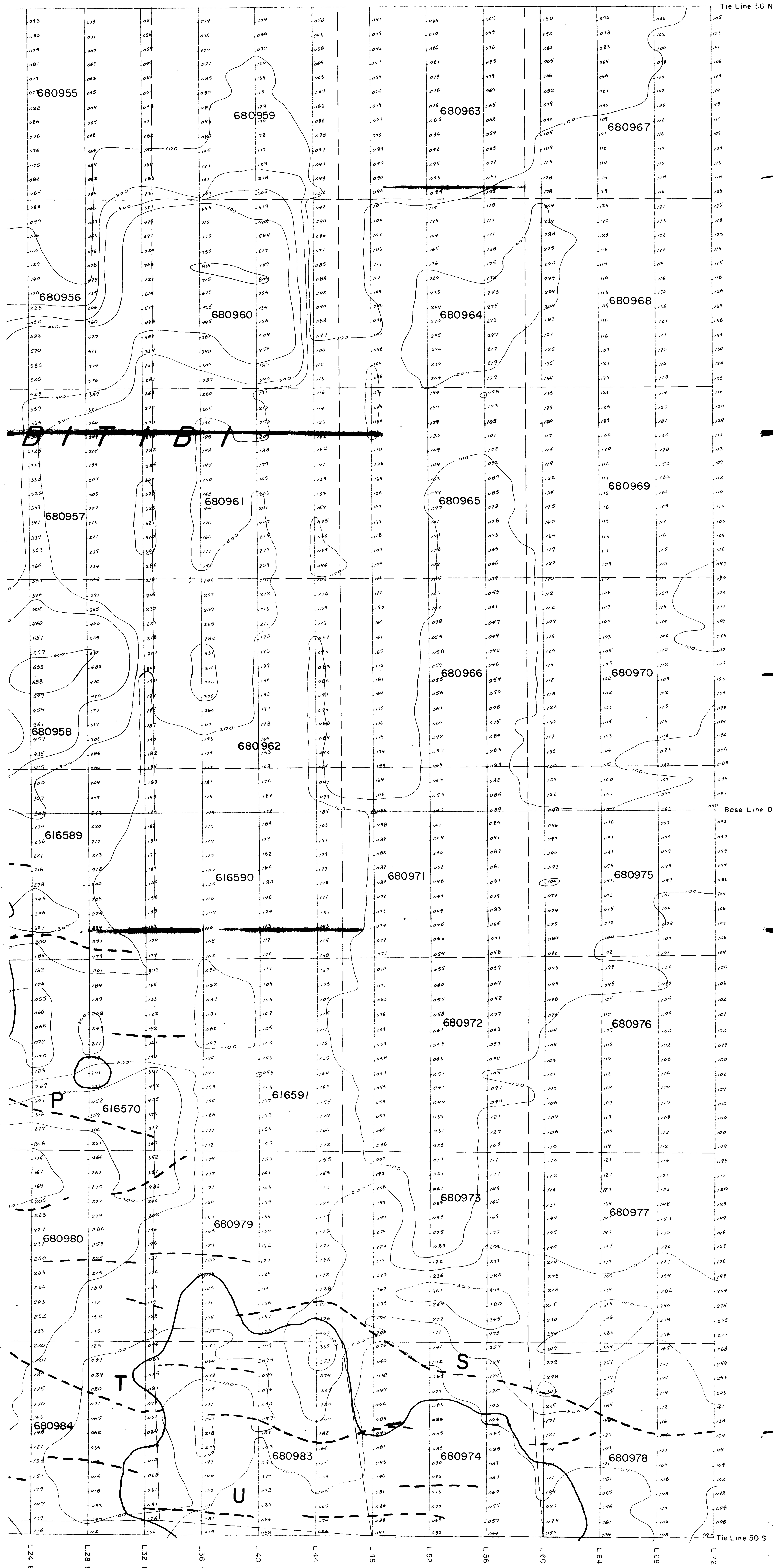
FILE: 8

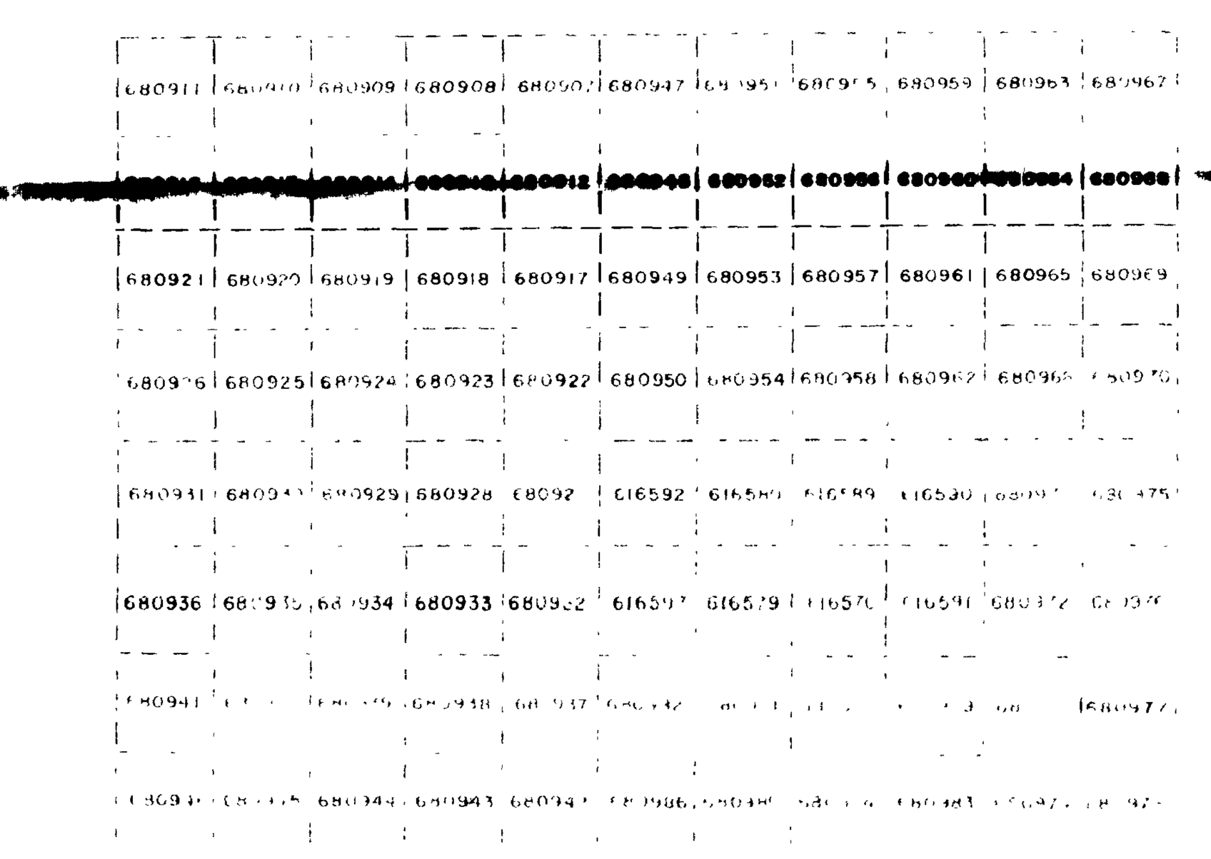
SHEET No. 1



32D13SW0004 2.5584 SULPHUR ISLAND

210





CLAIM MAP

SCALE 1 inch = 1/2 mile

LEGEND

- MEASUREMENT STATIONS ALONG PICKET LINES
- READINGS OF EARTH'S TOTAL MAGNETIC FIELD
- RECORDED READINGS ARE 59 000 PLUS PLOTTED VALUES
- MAGNETIC CONTOURS
- △ BASE STATION
- ▬ ▬ ▬ ELECTRICAL CONDUCTOR
- INSTRUMENT USED: PROTON MAGNETOMETER

MAGNETOMETER SURVEY

GOLD ISLAND RESOURCES LTD.

GOLDEN SHAFT ISLAND

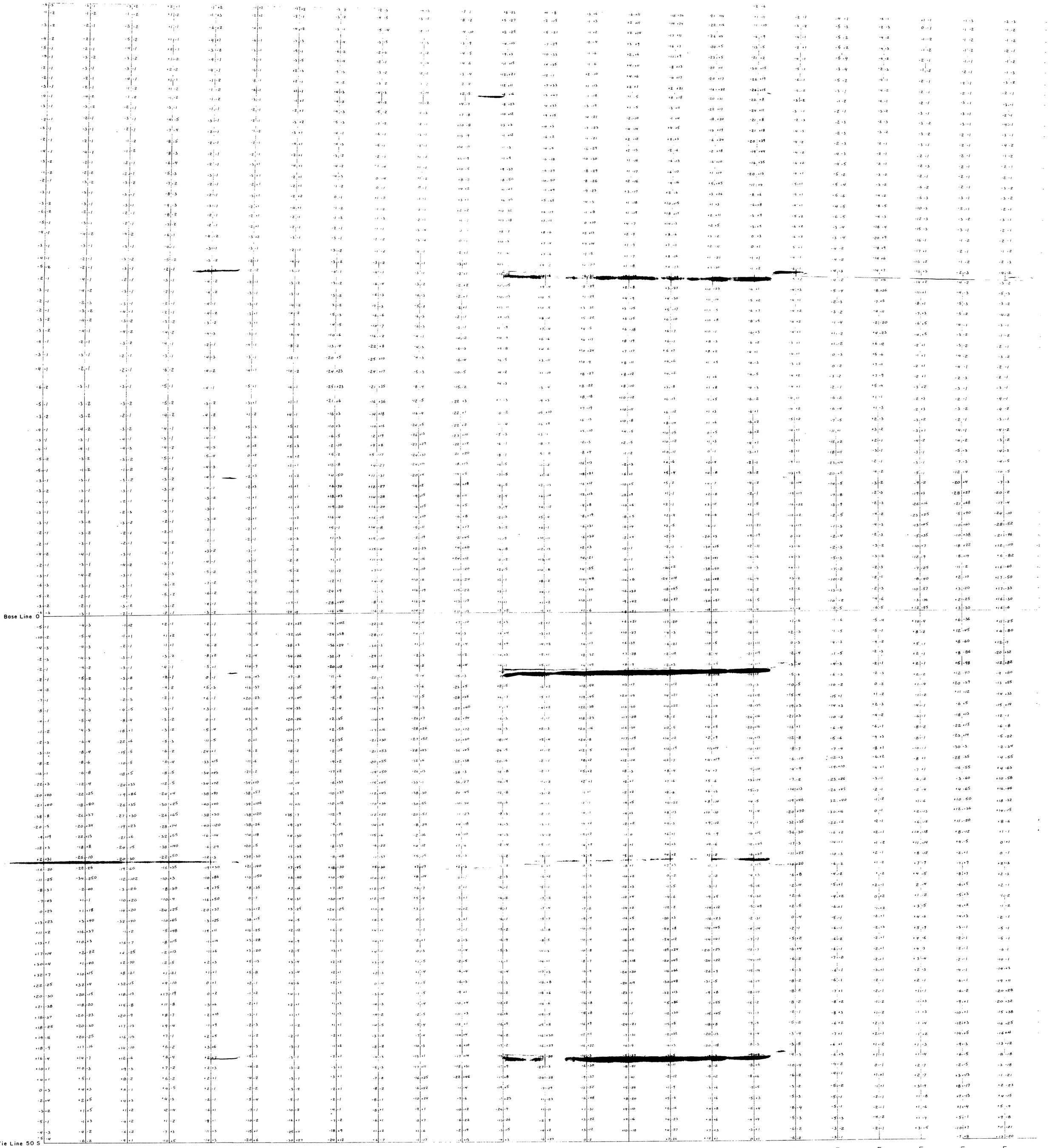
SULPHUR ISLAND
NORTHERN, ONTARIO

1" = 300 ft

March, 1983

PROSPECTING GEOPHYSICS LTD

2



N

Base Line 0

CLAIM MAP

SCALE 1 in. = 1/2 mile

Tie Line 50 S

L.24 E L.28 E L.32 E L.36 E L.40 E L.44 E L.48 E L.52 E L.56 E L.60 E L.64 E L.68 E L.72 E

LEGEND

MEASUREMENT STATIONS ALONG PICKET LINES

ELECTROMAGNETIC READINGS - In Phase Component

ELECTROMAGNETIC READINGS - Out of Phase Component

TYPE OF WORK

DIP - ANGLE DATA

CLIENT

GOLD ISLAND RESOURCES LTD.

PROJECT

GOLD SHAFT ISLAND

SULPHUR ISLAND
NORTHERN, ONTARIO

SCALE

1" = 300 ft

DATE

March, 1983

PROSPECTING GEOPHYSICS LTD.

DRAWN BY

MAP OR SHEET NO

3