



S2M01SE0002 2.6867 ~~KAMMELL LAKE~~ BALL

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**BIRON BAY RESOURCES LIMITED**

Report on Geophysical Surveys  
Ball and Todd Townships

**RECEIVED**

JUN 1 1984

MINING LANDS SECTION

June 13, 1984

Peter J. Vamos, P.Eng.  
Consulting Geologist

## INTRODUCTION

Biron Bay Resources Limited acquired a group of 40 mining claims in Ball and Todd Townships. Some were staked for the company others were optioned by Biron Bay. The purpose was to secure ground in an area of favourable geology to extend the company's property of Patented claims.

This report is the conclusion of preliminary field work consisting of geophysical surveys on 30 of the claims. Such geophysical methods were already completed on part of the Patented claims and it is expected that the entire property will eventually be covered.

## SUMMARY

Work on the company's property was done in the spring of 1984. A baseline was cut mainly on dry land and a grid was prepared over the ice of Pipestone Bay. Magnetic and electromagnetic surveys were done to locate geophysical anomalies and to gain insight into the geological structure. 8 conductive zones were located, some were interpreted as a result of contact etc., others were assumed to be caused by sulphide mineralization. It was decided to do follow up work on three of the conductors while checking water depth etc. on areas where conductivity was indicated. Diamond drilling on at least one conductor was also recommended.

## THE PROPERTY, LOCATION AND ACCESS

This report covers the area of 30 mining claims located in Ball and Todd Townships in the District of Kenora in the Patricia Portion of the Red Lake Mining Division.

The following claims are all located in Ball Twp.

KRL 621826	KRL 621842
KRL 621827	KRL 621843
KRL 621828	KRL 621844
KRL 621829	KRL 621845
KRL 621830	KRL 621846
KRL 621831	KRL 621847
KRL 621832	KRL 621848
KRL 621833	KRL 621849
KRL 621834	KRL 621850
KRL 621835	KRL 621851
KRL 621836	KRL 621852
	KRL 621853

Todd Township

KRL 621837	KRL 621840
KRL 621838	KRL 621841
KRL 621839	KRL 775376
	KRL 775377

The property lies on the north side of Pipestone Bay of Red Lake, most claims are over water with some in portion cover land areas, such as islands and peninsulas. Only two claims are situated in whole over dry land.

Access can be gained to the claims by air or water from the town of Red Lake, which is located approximately 32km to the southeast. Red Lake is serviced by a paved highway (No. 125) and scheduled airlines from Toronto, Dryden or Winnipeg.

## HISTORY

The area of Pipestone Bay had been explored at various times by companies and individuals since gold was discovered in the 1920's. Several showings and occurrences have been described including some deposits where shafts were sunk and underground development was done. Currently a few of these deposits have been re-examined and the area has become active again.

Little is known about Biron Bay's claim group, and since most claims are over water it is safe to assume that very little, if any, exploration was done in the past. The only information is the author has located comes from the two peninsulas on the north side where reconnaissance geological and magnetic work was done nearly two decades ago by Aiken-Russet Red Lake Mines Ltd.

## GEOLOGY

The Biron Bay claims lie on the northwest side of the Red Lake Greenstone Belt. Gold was discovered there in the 1920's and production of the metal commenced in the thirties. The bulk of the production came from the east side of the belt and it is still continuing.

The host of gold mineralization are a series of volcanic rocks and volcanosediments all of the early Precambrian age, however gold has been reported from a very wide range of host rocks.

A variety of intrusive rocks are also known starting from ultrabasic intrusives to syenite and quartz porphyries. Since the depressed economy of gold mining which started during the forties and continued until the late seventies only little attention was paid to geological research in the area. Consequently little is known of the genesis and controls of the gold deposition. With the revived interest in gold such research started again a few years ago and the results are presently forth coming. New data, therefore may add new approaches to be followed on the Biron Bay property.

With about 3/4 of the prospect under water little is known of the geology. It is assumed that a large ultrabasic intrusion occupies most of the bay itself. Serpentinite and carbonotized serpentinite were mapped over large portions on each sides of the bay. Therefore it is safe to assume that large parts of the Biron Bay property is underlain by ultrabasics.

The contact between the ultrabasic and the volcanic seem to be also under water reaching land on the east boundary of the claims. A narrow band of the volcanic and sedimentary rocks are exposed along the two peninsulas on the north side of the bay. Also such rocks appear on the larger island on the east side of the property. All the small islands close to the south boundary are mapped as serpentinite.

## DESCRIPTION OF THE WORK PERFORMED

Field work started early in 1984. A baseline trending east west was laid out in a fashion where most of its runs along the two peninsulas on the north side of the bay, allowing for regeneration of the grid in the following winters. The baseline was

started on the west shore of Pipestone Bay on a property also staked for Biron Bay, but not subject of this report. It actually reaches the property at station 24+00E and continues on the property until 75+00E (metric). The total length of this grid is approximately 62.3 km, a very minor portion of which is over patented claims also owned by Biron Bay.

Lines were turned at 100m centres and were picketed at 25m stations. The following instrumentation was used Geometrics G816 Proton Magnetometer, Geonics EM16 VLF, and Apex Max Min II Horizontal Loop EM.

The VLF survey was restricted to a portion of the property, mainly to the northwest peninsula and was necessitated by local conditions which made the use of the horizontal loop hazardous.

The magnetic survey covered the entire grid area. Base stations were allocated along the baseline. Readings were taken at 25m stations. The corrected readings were plotted on a scale of 1:2000 and were contoured at 1000 izogammas.

The Horizontal Loop survey was executed using 150m coil separation to gain maximum depth penetration over the bay which is believed to be deep. The frequencies used were 444 Hz and 1777 Hz. The results were plotted as profiles on a series of maps. Conductors and their magnetic correlation is presented in a tubular form.

The surveys are shown on three map sheets (with the exception of the VLF Survey).

## DISCUSSION OF THE RESULTS

EM 16 VLF Survey was completed over a small portion of the property between lines 24+00E and 46+00E mainly north of the baseline, usually going as far as 50-75m south. It was necessitated by the sharp topographical change represented by a long narrow peninsula, the south facing cliffs were covered by a layer of ice which made travel difficult for a two man instrument such as a horizontal loop.

One long conductive feature was found. It runs almost parallel with the baseline about 150-200m north of it over the entire length of the survey (24+00E to 46+00E). In the absence of any correlating magnetic feature we have to conclude that the conductive trend is likely the geophysical expression of the contact between the Red Lake Greenstone Belt and the granitic pluton north of it.

## MAGNETIC SURVEY

Generally speaking the magnetic survey shows good indications of the geological structures. Though ultrabasic rocks are known to exist under water the magnetic contrast is not as extensive as one would expect. Few areas show higher than 4000 gamma values with the extreme (1 only) over 8000 gammas. We are attributing this to the depth of water (and lake sediments) which essentially removes the sensor from its usual distance from the source to 30-50 meters.

In detail little is seen on sheet 1. A minor jump in magnetic intensities about 200 - 300m south of the peninsula may suggest the vicinity of the ultrabasic contact.

A small magnetic anomaly on line 36E and 37E showing a peak value of 5300 gammas may be due to the same intrusive or could be caused by magnetic mineralization along the contact area of the intrusive.

Continuing eastward on sheet 2 the magnetic intensities appear to be increasing until several peaks of 5000 gammas, or over are seen in the vicinity of the island. In our interpretation this may be the effect of shallower water which culminates on the island where the ultrabasic rocks are exposed. Going further east the serpentinites swing to the south and their magnetic expression is found only on the very south side of the grid.

Sheet 3 already displays magnetic features which conform with the geological mapping in Todd Township. Large portions of this sheet appear to be underlain by volcanic rocks and volcanosediments, with iron formations showing 4000 to 7000 gamma peaks. The sub-parallel echelon distribution of these anomalies south of the baseline between line 65E and 75E, suggests block faulting.

### EM HORIZONTAL LOOP SURVEY

Completed between lines 35E and 75E, it ties on and compliments the VLF Survey. On sheet 1 single conductor was identified while it continues to the south east conductor A is only on one line (36E) on the property. For details see table.

Conductor B on Sheet 2 and 3 appears to be a long moderately wide feature. It displays some undulation which may be caused by minor faulting. With most of it located in the water north of the second peninsula it seems to show a connecting trend to the conductive feature defined by the VLF survey on Sheet 1. Conductor B is also located close to the assumed geological contact between the volcanics and the granite pluton on the north.

Conductor C displays also some minor faulting. This conductor is in places very wide (up to 136m). It lies under water in its entire length which makes interpretation more difficult. The magnetic correlation is direct on the east side of the conductor, however it becomes north flanking on the west. This may suggest that we could be dealing with two separate conductive features. The cause for the anomalous conditions is likely a stratigraphic condition with lake bottom sediments not excluded.

Conductor D - This short conductor is mostly under water, but parts of it may be investigated on the small island where sulphide occurrences are indicated, high conductivity associated with high magnetic values. This conductor was drilled in the past. Conductor E is located on sheet 3 on most lines just north of the property boundary. It is found on the property on lines 72, 73E only, it is also under water in its entire length. Magnetic correlation is dubious because the scanty magnetic data however it may be related to a very minor high of 0-10 gammas. The conductor appears to be 200-250m north of the granite contract which places it well into the granitic pluton. It may be due to uneven erosion or lake bottom conditions though it may be worth further investigation.

Conductor F is relatively short, and is entire on land. Conductivity appears to be strong with high direct magnetic correlation. Related to chemical sediments and iron formations possibly the combination of magnetite and pyrrhotite.

Conductor G is about 250m long. High and moderate conductivity correlates with moderately high magnetic peak. This conductor appears to be located on the contact of mafic and intermediate volcanics and requires further investigation.

Conductor G is again under water, it is visible on the eastern most line on the grid suggesting continuance to the east i.e. on dry land on the company's patented claims. Under water it seems to be weakly conductive, associated with a low broad magnetic feature.

The survey has confirmed some of the airborne conductors though large number of the airborne intercepts have escaped detection. We feel that this is caused by the difference in depth penetration of the instrumentation. The airborne instrumentation used here is capable of locating conductors at 150m depth while our instrumentation is limited to a depth of 75m maximum.

There are no charts available to show the depth of water but it is generally believed that Pipestone Bay is very deep. It is also our observation that the survey has shown a few areas where indication of anomalies can be seen but the results are not clear and strong to be considered as anomalies.

TABLE OF CONDUCTORS

<u>Cond. #</u>	<u>Location</u>	<u>Strength</u>	<u>Width</u>	<u>Mag. corr.</u>	<u>Mag. peak</u>	<u>Priority</u>
A	36E-37E	Mod.	± 1m	East flank 80m	5293	C
B	47E-65E	Wk.	1-30m	Minor low assoc.	-10 to 0	C
C	52E-62E	Wk.	18-136m	Flank-direct	2262	C
D	61E-62E	stg.	20-40m	Direct	9813	A - B
E	72E-73E	Wk.		Insufficient data		C
F	66E-68E	Stg.	20-70m	Direct	7825	A - B
G	72E-73E	Stg.	10m	Direct	5702	A - B
H	68E-75E	Wk	1-100m	Very broad (see text)	2535	B

**RECOMMENDATIONS**

It is suggested that the depth of water be tested in a few locations where anomalies are indicated. The results would then enable us to choose the step to be taken.

It is also recommended that further work be done on Conductors F and G consisting of prospecting, mapping and sampling.

Conductor C is positioned in an area of favourable geology, we are suggesting that this conductor be drill tested.

### COST ESTIMATE

The estimates are based on having Biron Bay's camp and equipment available.

Testing water depth		
3 days - 3 man crew \$650/day		\$ 1,950.00
Prospecting - mapping		
2 man crew \$300/day	6 days	1,800.00
Sampling		
2 man crew	2 days	600.00
Drafting		250.00
Supervision 15%		<u>690.00</u>
Total surface		\$ 5,290.00
Diamond drilling		
(based on drill being available at site)		
250m at \$85.00/m		\$21,250.00
Sampling		1,000.00
Assays		1,000.00
Preparation, supervision and technical work 15%		<u>3,487.50</u>
Total		<u><u>\$26,737.50</u></u>

June 14, 1984.



Peter J. Vamos, P.Eng.



52M01SE0002 2.6867 HAMMELL LAKE

Type of Survey(s) Horizontal Loop electromagnetic survey	Township or Area Bath and Todd Twp.
Claim Holder(s) Biven Bay Resources Ltd.	Prospector's Licence No. T 1091
Address Suite 15, 15 Wellington St W. Toronto Ont. M5T 1G7	
Survey Company H. E. Hall	Date of Survey (from & to) 20 03 84 17 04 84 Day Mo. Yr. Day Mo. Yr.
Total Miles of line Cut 50.00 km	
Name and Address of Author (of Geo-Technical report) Peter J. James P. Eng. 4867 Wilmot St Niagara Falls Ont L2E 1Z4	

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

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
KRL	621845		KRL	621826	
	621846			621827	
	621847			621828	
				621829	
				621830	
				621831	
				621832	
				621833	
				621834	
				621835	
				621836	
				621837	
				621838	
				621839	
				621840	
				621841	
				621848	
				621849	
				621850	
				621851	
				621852	
				621853	

RED LAKE MINING DIV.  
RECEIVED  
FIRST REC'D  
APR 18 1984  
A.M. 7:8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 P.M.

RED LAKE MINING DIV.  
RECEIVED  
MAY - 8 1984  
A.M. 7:8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 P.M.

RECEIVED  
JUL 19 1984

MINING LANDS SECTION

Total number of mining claims covered by this report of work. 25

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 500	Date Recorded May 8 / 84	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded see	Branch Director revised statement

Date 18 April 84

Recorded Holder or Agent (Signature)  
*[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  
Peter J. James P. Eng. 4867 Wilmot St Niagara Falls Ont L2E 1Z4

**KRL 621826**

Date Certified 18 April 84

Certified by (Signature)  
*[Signature]*





Ministry of  
Natural  
Resources

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

#84-34  
2.6867  
The Mining Act

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) VLF Electromagnetic Survey		Township or Area Ball Twp	
Claim Holder(s) Biron Bay Resources Ltd.		Prospector's Licence No. T1091	
Address Suite 15, 15 Wellington St W Toronto M5J 1G7			
Survey Company M E Hall		Date of Survey (from & to) 14 03 84 30 03 84 Day Mo. Yr. Day Mo. Yr.	
		Total Miles of line Cut 8.24 km	
Name and Address of Author (of Geo-Technical report) Peter J. Vamos P. Eng 4867 Willmet St Niagara Falls Ont L2E 1Z4			

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)	VLF Electromagnetic incl 10 # - 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	
Airborne Credits	Electromagnetic Magnetometer Radiometric	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.		

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
KRL	621842				
	621843				
	621844				
	621845				
	621846				
	621847				

RED LAKE  
MINING DIV.  
RECEIVED  
FIRST REC'D  
APR 18 1984  
A.M. P.M.  
7|8|9|10|11|12|1|2|3|4|5|6

RED LAKE  
MINING DIV.  
RECEIVED  
MAY - 8 1984  
A.M. P.M.  
7|8|9|10|11|12|1|2|3|4|5|6

Expenditures (excludes power stripping)

Type of Work Performed
Performed on Claim(s)
Calculation of Expenditure Days Credits
Total Expenditures \$ <input type="text"/> ÷ 15 = Total Days Credits <input type="text"/>
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.

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

Date 18 April 84	Recorded Holder or Agent (Signature) Peter J. Vamos
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For Office Use Only		Mining Recorder	
Total Days Cr. Recorded 20	Date Recorded May 8, 1984	<i>[Signature]</i>	
	Date Approved as Recorded see revised statement	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  
Peter J. Vamos P. Eng 4867 Willmet St Niagara Falls

<b>KRL 621842</b>	Date Certified 18 April 84	Certified by (Signature) <i>[Signature]</i>
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Ministry of  
Natural  
Resources

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

#84-35  
2.6867  
Mining Act

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) Total field magnetic survey	Township or Area Ball and Todd Twp
Claim Holder(s) Biron Bay Resources Ltd	Prospector's Licence No. T1091
Address Suite 15, 15 Wellington St W. Toronto M5J 1G7	
Survey Company H.E. Hall	Date of Survey (from & to) 17 03 84   17 04 84 Day   Mo.   Yr.   Day   Mo.   Yr.
Name and Address of Author (of Geo-Technical report) Peter J. James P. Eng 4867 Willmott St Niagara Falls Ont	
Total Miles of line Cut 5.6 00.00 km	

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

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.
KRL	621826	
	621827	
	621828	
	621829	
	621830	
	621831	
	621832	
	621833	
	621834	
	621835	
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	621840	
	621841	
	621842	
	621843	
	621844	
	621845	
	621846	
	621847	
	621848	

Prefix	Mining Claim Number	Expend. Days Cr.
KRL	621849	
	621850	
	621851	
	621852	
	621853	

RED LAKE MINING DIV.  
RECEIVED  
FIRST REC'D  
APR 18 1984  
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

RED LAKE MINING DIV.  
RECEIVED  
MAY - 8 1984  
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

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.

Total number of mining claims covered by this report of work. 28

Date 18 April 84  
Recorded Holder or Agent (Signature) Peter James

For Office Use Only

Total Days Cr. Recorded 1120  
Date Recorded May 8/84  
Date Approved as Recorded 8.10.3/

Mining Recorder [Signature]  
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  
Peter J. James P. Eng. 4867 Willmott St Niagara Falls Ont

KRL 621826  
Date Certified 18 April 84  
Certified by (Signature) Peter J. James





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) Magnetic and electromagnetic

Township or Area Todd and Ball Townships.

Claim Holder(s) Biron Bay Resources Limited.

Survey Company M. E. Hall

Author of Report Peter J. Vamos P. Eng.

Address of Author 4867 Willmott St. Niagara Falls, Ont.

Covering Dates of Survey Feb 1984 - June 1984.  
(linecutting to office)

Total Miles of Line Cut 62.3 km.

MINING CLAIMS TRAVERSED  
List numerically

Kr1 621826- 621836  
.....  
(prefix) (number)  
Kr1 621842- 621853 all in Ball T.  
.....  
Kr1 621837- 621839,  
.....  
Kr1 621840 and 621841 Todd Twp.  
.....

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: 15, June 1984 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.1431

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 30

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 2400 Number of Readings 7200
Station interval 25 m. Line spacing 100m.
Profile scale 1: 10
Contour interval 1000 gammas.

MAGNETIC

Instrument Geometric G 816 Proton.
Accuracy - Scale constant 1 gamma.
Diurnal correction method Corrected at base stations along the baseline.
Base Station check-in interval (hours) at each loop.
Base Station location and value

ELECTROMAGNETIC

Instrument Apex MaxMin II.
Coil configuration Horizontal Loop
Coil separation 150 m.
Accuracy 1 %.
Method: [ ] Fixed transmitter [ ] Shoot back [ ] In line [ ] Parallel line
Frequency Cutler (specify V.L.F. station)
Parameters measured In Phase and Out of Phase comp.

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 \_\_\_\_\_

84-33

84-34

84-35  
26867

EM

VLF

621826	✓	621842	✓	621826	✓
827	✓	843	✓	827	✓
828	1/4	844	1/4	828	✓
829	✓	845	1/4	829	✓
830	✓	846	2/4	830	✓
831	✓	847	1/4	831	✓
832	1/4			832	✓
833	✓			833	✓
834	✓			834	✓
835	✓			835	✓
836	✓			836	✓
837	✓			837	✓
838	✓			838	✓
839	✓			839	✓
840	✓			840	✓
841	✓			841	✓
621845	2/4			842	✓
846	2/4			843	✓
847	1/4			844	✓
848	1/4			845	✓
849	✓			846	✓
850	✓			847	✓
851	✓			848	✓
852	✓			849	✓
853	✓			850	✓
				851	✓
				852	✓
				853	✓





1984 11 22

Your File: 84-34  
Our File: 2.6867

Mining Recorder  
Ministry of Natural Resources  
Ontario Government Building  
Box 5003  
Red Lake, Ontario  
POV 2M0

Dear Sir:

RE: Notice of Intent dated November 1, 1984.  
Geophysical (Electromagnetic) Survey on  
Mining Claims KRL 621842 et al in the  
Ball Township

---

The assessment work credits, as listed with the  
above-mentioned Notice of Intent, have been approved  
as of the above date.

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

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

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

D. Isherwood:sc

cc: Biron Bay Resources Limited  
Suite 15  
15 Wellington Street West  
Toronto, Ontario  
M5J 1G7

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

cc: Peter J. Vamos  
4867 Willmott Street  
Niagara Falls, Ontario  
L2E 1Z4

Resident Geologist  
Red Lake, Ontario



Ontario

Ministry of  
Natural  
Resources

Technical Assessment  
Work Credits

File  
2.6867

Date  
1984 11 01

Mining Recorder's Report of  
Work No. 84-34

Recorded Holder

BIRON BAY RESOURCES LTD.

Township or Area

BALL TOWNSHIP

Type of survey and number of  
Assessment days credit per claim

Mining Claims Assessed

Geophysical

Electromagnetic VLF 20 days

KRL 621842 to 845 inc.  
621847

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  
KRL 621846

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;



Ontario

Ministry of  
Natural  
Resources

# Technical Assessment Work Credits

File  
2.6867

Date  
1984 10 12

Mining Recorder's Report of  
Work No. 84-33

Recorded Holder  
BIRON BAY RESOURCES LTD

Township or Area  
BALL, TODD TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ 20 days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days	KRL 621826 to 841 inclusive 621847 to 853 inclusive
Section 77 (19) See "Mining Claims Assessed" column	
<b>Geological</b> _____ days	
<b>Geochemical</b> _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>  <input type="checkbox"/> Credits have been reduced because of partial coverage of claims.  <input type="checkbox"/> 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  
KRL 621845-846

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:



Nov. 19, 1984.

1984 11 01

Your File: 84-34  
Our File: 2.6867

Mining Recorder  
Ministry of Natural Resources  
Ontario Government Building  
Box 324  
Red Lake, Ontario  
POV 2M0

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. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3

D. Isherwood:ig  
Encls.

cc: Biron Bay Resources Limited  
Suite 15  
15 Wellington Street West  
Toronto, Ontario  
M5J 1G7

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

File

cc: Peter J. Vamos  
4867 Willmott Street  
Niagara Falls, Ontario  
L2E 1Z4



Ministry of  
Natural  
Resources

Notice of Intent  
for Technical Reports

1984 11 01

2.6867/84-34

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 Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

1984 11 01

Your File: 84-33  
Our File: 2.6867

Mining Recorder  
Ministry of Natural Resources  
Ontario Government Building  
Box 324  
Red Lake, Ontario  
POV 2M0

Dear Sir:

RE: Notice of Intent dated October 12, 1984  
Geophysical (Electromagnetic) Survey on  
Mining Claims KRL 621826 et al in the  
Ball, Todd Townships

---

The assessment work credits, as listed with the  
above-mentioned Notice of Intent, have been approved  
as of the above date.

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

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone:(416)965-4888

D. Isherwood:mc

cc: Biron Bay Resources Limited  
Suite 15  
15 Wellington Street West  
Toronto, Ontario  
M5J 1G7

cc: Peter J. Vamos  
4867 Willmott Street  
Niagara Falls, Ontario  
L2E 1Z4

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

cc: Resident Geologist  
Red Lake, Ontario

Encl.



OCT 29, 1984.

1984 10 12

Your File: 84-33  
Our File: 2.6867

Mining Recorder  
Ministry of Natural Resources  
Ontario Government Building  
Box 324  
Red Lake, Ontario  
POV 2M0

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. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3

D. Isherwood:mc

Encls.

cc: Biron Bay Resources Limited  
Suite 15  
15 Wellington Street West  
Toronto, Ontario  
M5J 1G7

cc: Peter J. Vamos  
4867 Willmott Street  
Niagara Falls, Ontario  
L2E 1Z4

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

**FILE**

approval  
yet to be  
issued





Ministry of  
Natural  
Resources

Notice of Intent  
for Technical Reports

1984 10 12

2.6867/84-33

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.

PETER J. VAMOS, P. Eng.  
Consultants

2.6867

4867 Willmott Street, Niagara Falls, Ontario L2E 1Z4

Telephone (416) 357-1612

Ministry of Natural Resources  
Land Management Branch  
Room 6643, Whitney Block  
Queen's Park  
Toronto, Ontario  
M7A 1W3.

September 24, 1984

RECEIVED

SEP 27 1984

MINISTRY OF NATURAL RESOURCES

Your file: 2.6867

Dear Sir,

Enclosed please find electromagnetic plans (VLF HL) in duplicate with the profile scale shown, as you have requested.

Sincerely yours

*Peter J. Vamos*

Peter J Vamos P. Eng.

RECEIVED	
Land Management Branch	
CIRCULATE	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
SEP 27 1984	
S. E. YUNGT	
J. R. MORTON	
J. C. SMITH	<input checked="" type="checkbox"/>
W. L. GOOD	
E. HOGAN	
W. D. BROOK	
RETURN TO R. 6643	

September 24, 1984

File: 2.6867

REGISTERED

Biron Bay Resources Limited  
Suite 15  
15 Wellington Street West  
Toronto, Ontario  
M5J 1G7

Dear Sirs:

RE: Geophysical (Magnetometer & Electromagnetic) Survey  
submitted on Mining Claims KRL 621826 et al in the  
Townships of Ball and Todd.

---

Enclosed is a copy of our letter dated August 1, 1984  
requesting additional information for the above-mentioned  
survey.

Unless you can provide the required data by October 3, 1984  
the mining recorder will be directed to cancel the work  
credits recorded on May 8, 1984.

For further information, please contact Mrs. S. Hurst  
at (416)965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
(416)965-4888

S. Hurst:sc

Encl:

cc: Mining Recorder  
Red Lake, Ontario

cc: Peter J. Vamos  
4867 Willmott Street  
Niagara Falls, Ontario  
L2W 1Z5

*84-09-26  
Peter Vamos sent by  
registered mail  
84-09-25*

August 1, 1984

Our File: 2.6867

Biron Bay Resources Ltd  
Suite 15  
15 Wellington Street West  
Toronto, Ontario  
M5J 1G7

Dear Sirs:

RE: Geophysical (Magnetometer & Electromagnetic) Survey  
on Mining Claims KRL 621826 et al in Ball & Todd  
Townships

---

Returned herein are the electromagnetic plans (VLF & ML)  
in duplicate, for the above-mentioned survey. Please show  
the profile scale on each plan and return them to this  
office quoting file 2.6867.

For further information, please contact Mr. Ray Pichette  
at (416)965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416)965-4888

S. Hurst:mc

cc: Mining Recorder  
Red Lake, Ontario

cc: Peter J. Vamos  
4867 Willmott Street  
Niagara Falls, Ontario  
L2W 1Z5

Encl.

1984 07 06

Your File:  
Our File: 2.6867

Albert Scott Rivett  
Mining Recorder  
Ministry of Natural Resources  
Ontario Government Building  
Box 5003  
Red Lake, Ontario  
POV 2M0

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic & Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims KRL 621826 et al in the Townships of Todd and Ball.

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

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

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

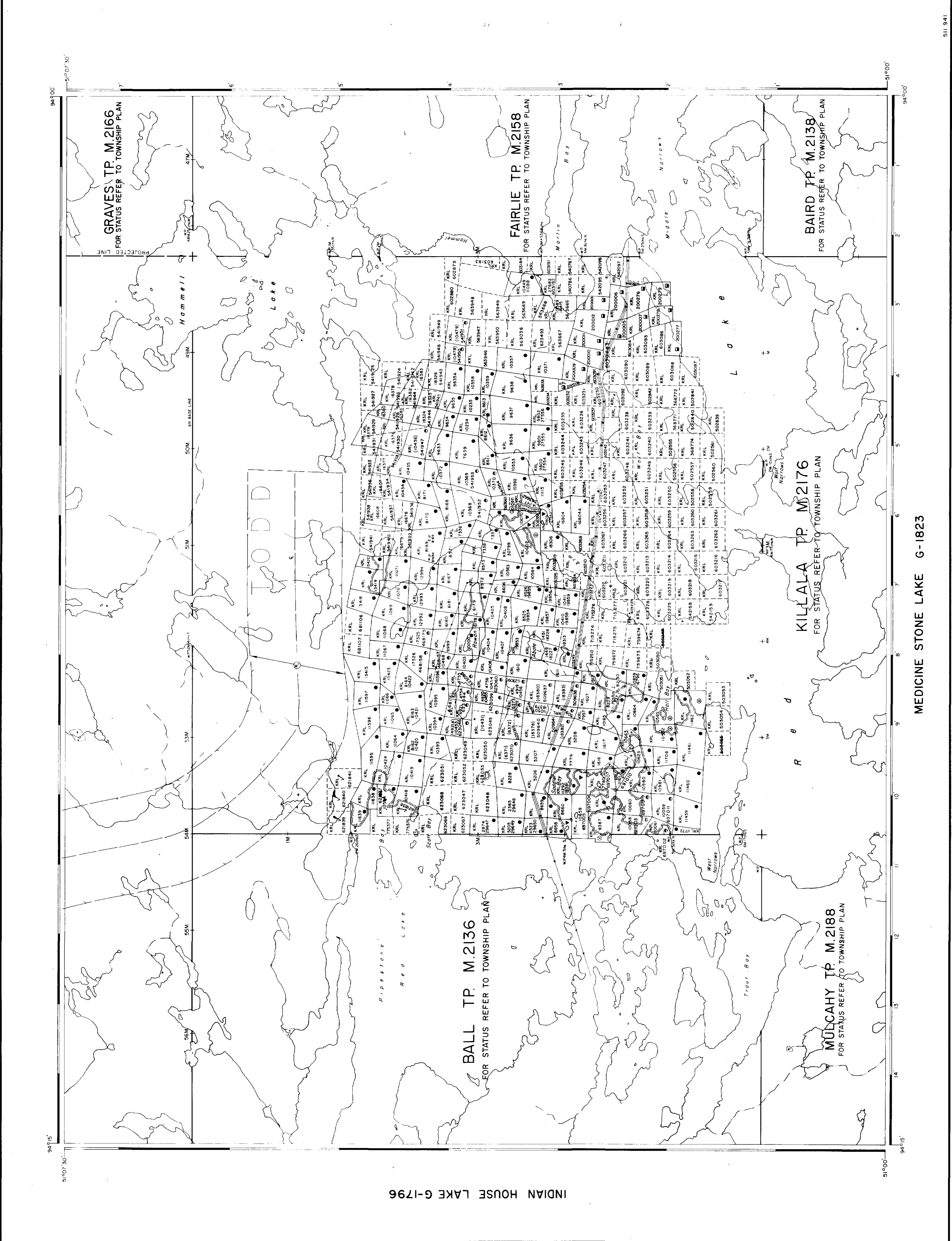
A. Barr:sc

cc: Biron Bay Resources Limited  
15 Wellington St W  
Suite 15  
Toronto, Ontario

cc: Peter J. Vamos  
4867 Willmott Street  
Niagara Falls, Ontario  
L2E 1Z5

DATE OF ISSUE  
 15/07/83  
 15/07/83

<b>LEGEND</b> HIGHWAY AND ROUTE NO. OTHER ROADS TRAILS SURFACE RIGHTS TOWNSHIP BASE LINES ETC. LOTS, MINING CLAIMS, PARCELS ETC. UNSURVEYED LINES PARCEL BOUNDARY MINING CLAIMS ETC. RAILWAY AND RIGHT OF WAY UTILITY LINES FLOODING OR FLOODING RIGHTS SUBDIVISION OR COMPOSITE PLAN RESERVATIONS ORIGINAL SHORELINE MARSH OR MUSKOG TRAVERSE MONUMENT	<b>DISPOSITION OF CROWN LANDS</b> <table border="0"> <tr> <th>TYPE OF DOCUMENT</th> <th>SYMBOL</th> </tr> <tr> <td>PATENT SURFACE &amp; MINING RIGHTS</td> <td>●</td> </tr> <tr> <td>SURFACE RIGHTS ONLY</td> <td>○</td> </tr> <tr> <td>LEASE SURFACE &amp; MINING RIGHTS</td> <td>■</td> </tr> <tr> <td>SURFACE RIGHTS ONLY</td> <td>□</td> </tr> <tr> <td>MINING RIGHTS ONLY</td> <td>▲</td> </tr> <tr> <td>LICENCE OF OCCUPATION</td> <td>OC</td> </tr> <tr> <td>ORDER IN COUNCIL</td> <td>OC</td> </tr> <tr> <td>CANCELLED</td> <td>○</td> </tr> <tr> <td>SAND &amp; GRAVEL</td> <td>○</td> </tr> </table> <p>NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 1, 1910, WHICH WERE NOT ORIGINAL PATENTEE'S, WILL BE PUBLIC LANDS UNLESS THE ORIGINAL PATENTEE'S CAN BE IDENTIFIED.</p>	TYPE OF DOCUMENT	SYMBOL	PATENT SURFACE & MINING RIGHTS	●	SURFACE RIGHTS ONLY	○	LEASE SURFACE & MINING RIGHTS	■	SURFACE RIGHTS ONLY	□	MINING RIGHTS ONLY	▲	LICENCE OF OCCUPATION	OC	ORDER IN COUNCIL	OC	CANCELLED	○	SAND & GRAVEL	○	<p>SCALE: 1 INCH = 40 CHAINS</p>
TYPE OF DOCUMENT	SYMBOL																					
PATENT SURFACE & MINING RIGHTS	●																					
SURFACE RIGHTS ONLY	○																					
LEASE SURFACE & MINING RIGHTS	■																					
SURFACE RIGHTS ONLY	□																					
MINING RIGHTS ONLY	▲																					
LICENCE OF OCCUPATION	OC																					
ORDER IN COUNCIL	OC																					
CANCELLED	○																					
SAND & GRAVEL	○																					



<b>REFERENCES</b> AREAS WITHDRAWN FROM DISPOSITION M.R.O. - MINING RIGHTS ONLY S.R.O. - SURFACE RIGHTS ONLY M.S. - MINING AND SURFACE RIGHTS Description: M.R.O.    Date: 15/7/83    File: S.R.C. 18821 SEC. 36/80    M/R/83	<b>INDIAN HOUSE LAKE G-1796</b> <b>MEDICINE STONE LAKE G-1823</b>
--	--

51,941

MINISTRY OF NATURAL RESOURCES  
 ONTARIO  
 FEBRUARY 14, 1983  
**G-1789**

W-5132E

BFTT J1A6

231S-M

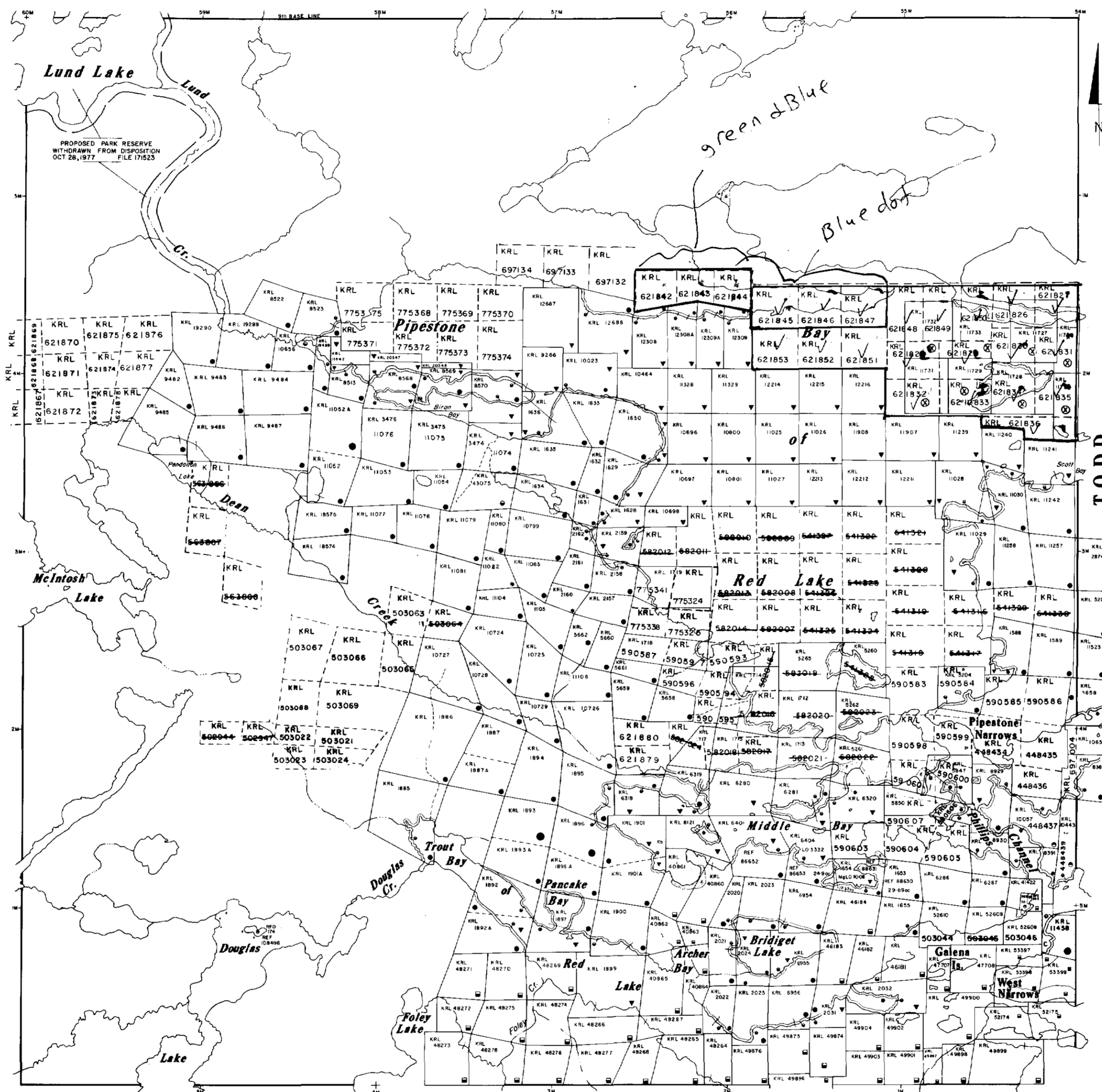
**LEGEND**

- 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 OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

**AREAS WITHDRAWN FROM DISPOSITION**

S.R. - SURFACE RIGHTS      M.R. - MINING RIGHTS

Description	Order No.	Date	Disposition	File

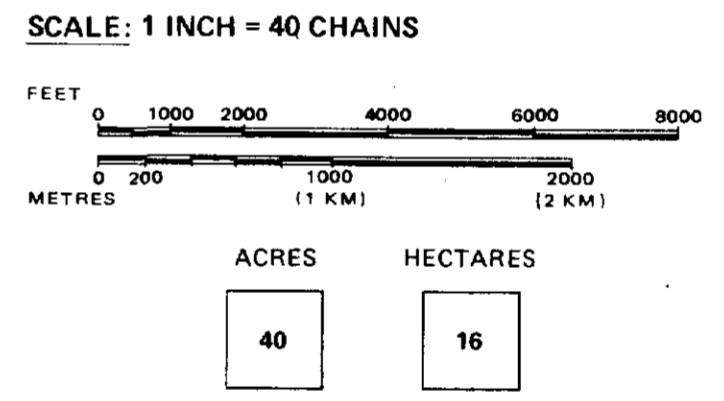


**DISPOSITION OF CROWN LANDS**

- | 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           | ◔      |
| ORDER-IN-COUNCIL                | OC     |
| RESERVATION                     | ⊙      |
| CANCELLED                       | ⊖      |
| SAND & GRAVEL                   | ⊕      |

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1912, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

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



TOWNSHIP OF  
**BALL**  
 DISTRICT **KENORA**  
 PATRICIA PORTION  
 MINING DIVISION  
**RED LAKE**

Ministry of Natural Resources  
 Ontario  
 Surveys and Mapping Branch

Date 8/2/80. Plan No. M-2136  
 National Topographic Series

W-5132E

BFTT J1A6



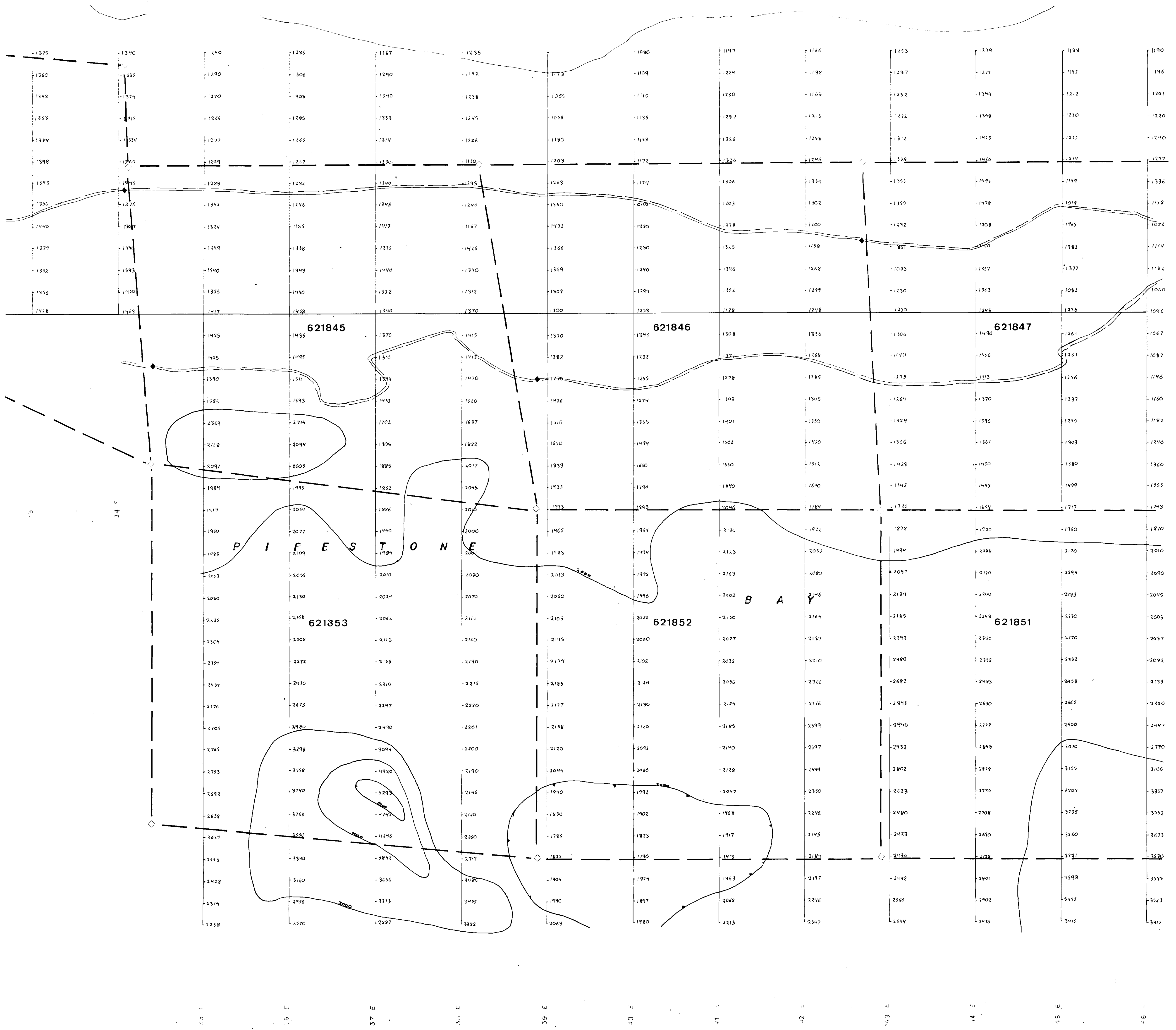


BIRON BAY RESOURCES LTD.

RED LAKE, ONT.  
Sheet 1

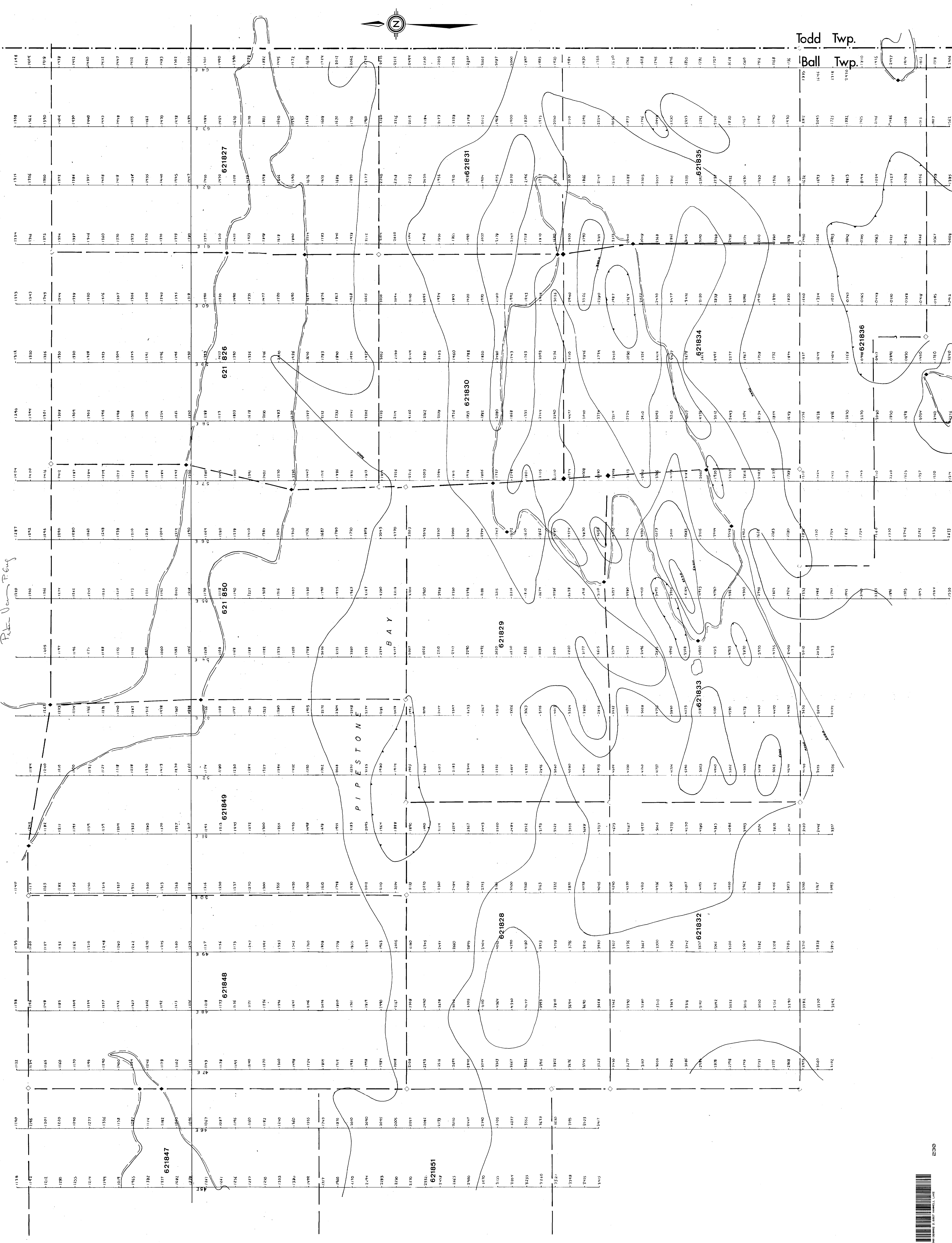
Magnetic Survey.

*Peter Jones P. Eng*  
*2/10/07*





*Plot Over PEG*



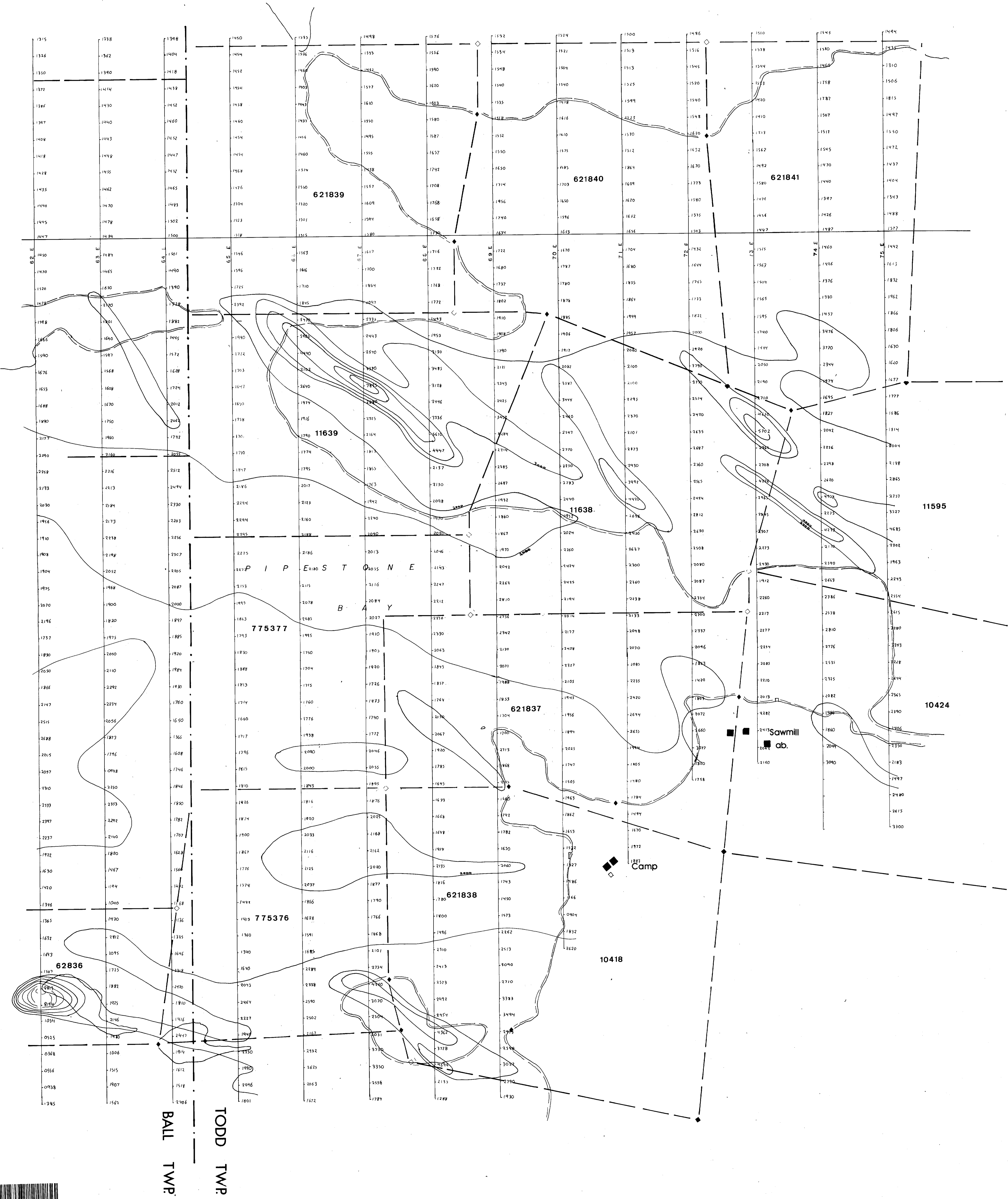
# BIRON BAY RESOURCES

RED LAKE ONT.

Sheet 3

Magnetic Survey

*Peter James Reif*

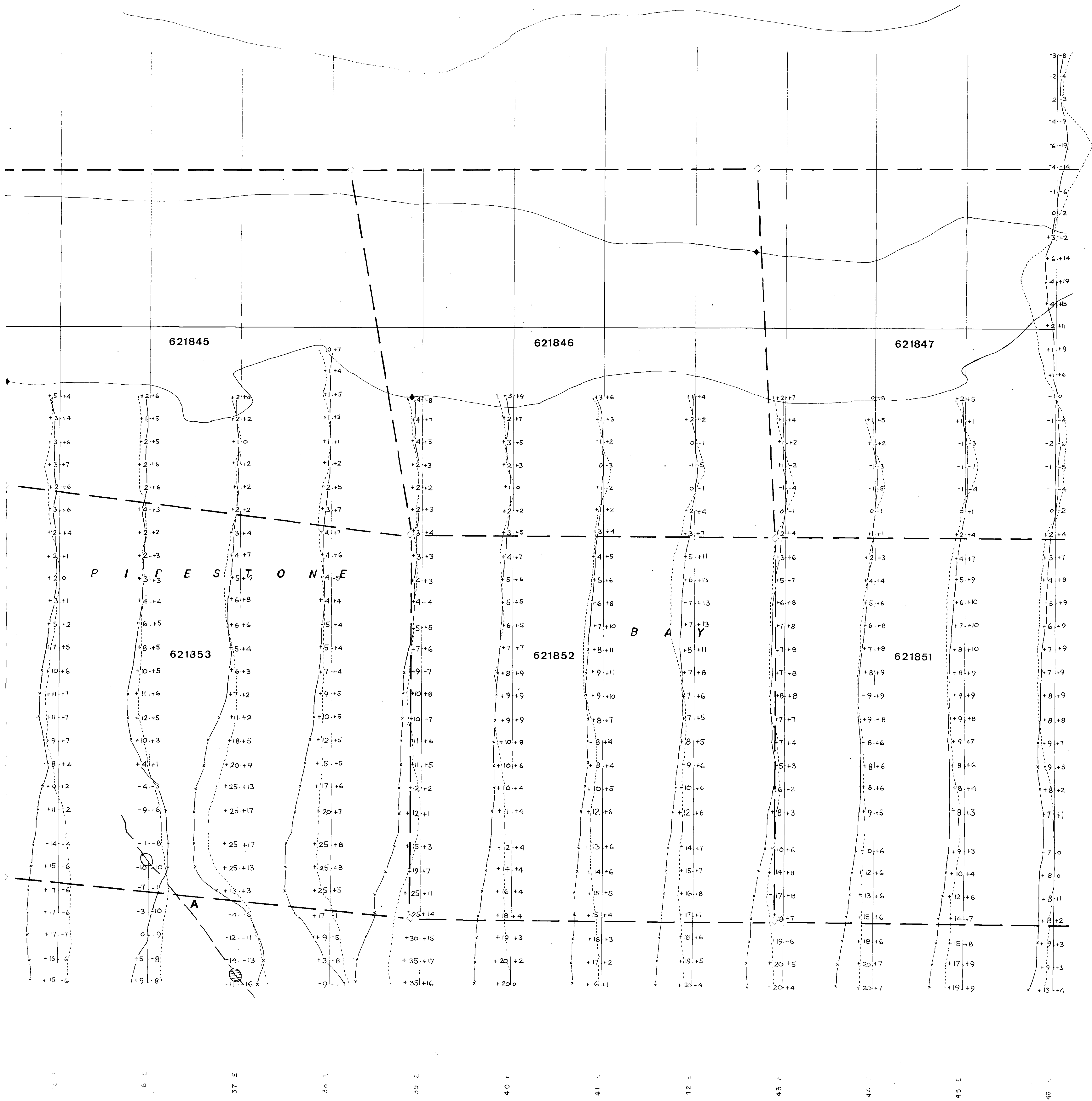


ON BAY RESOURCES LTD.

RED LAKE, ONT.  
Sheet 1

Electromagnetic (H. L.) Survey.

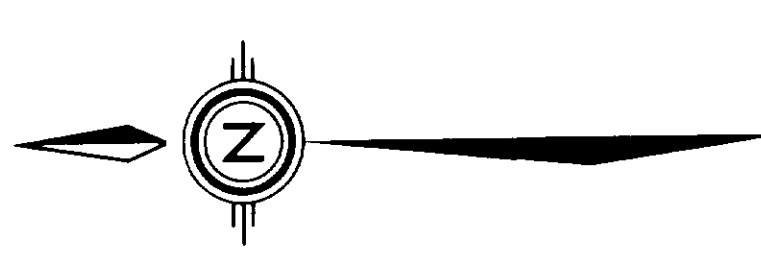
*Peter James P. Eng*



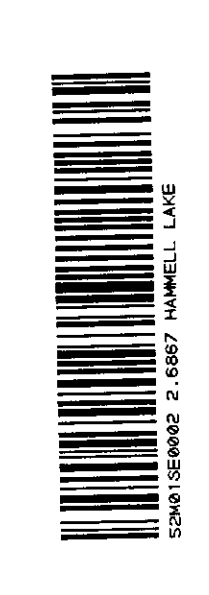
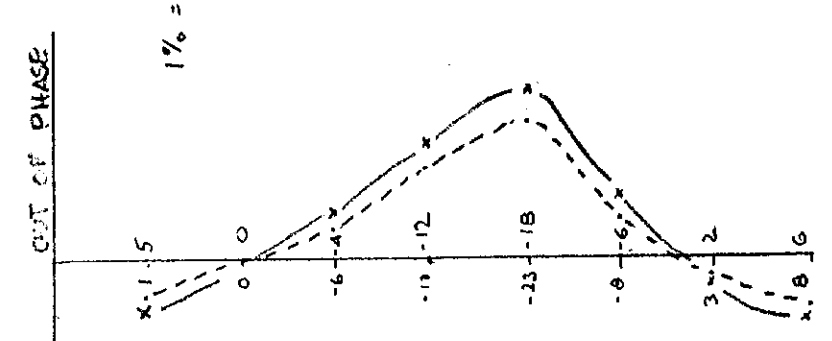


Electromagnetic (H.L.) Survey

Pike Dam Reef



Todd Twp.  
Ball Twp.



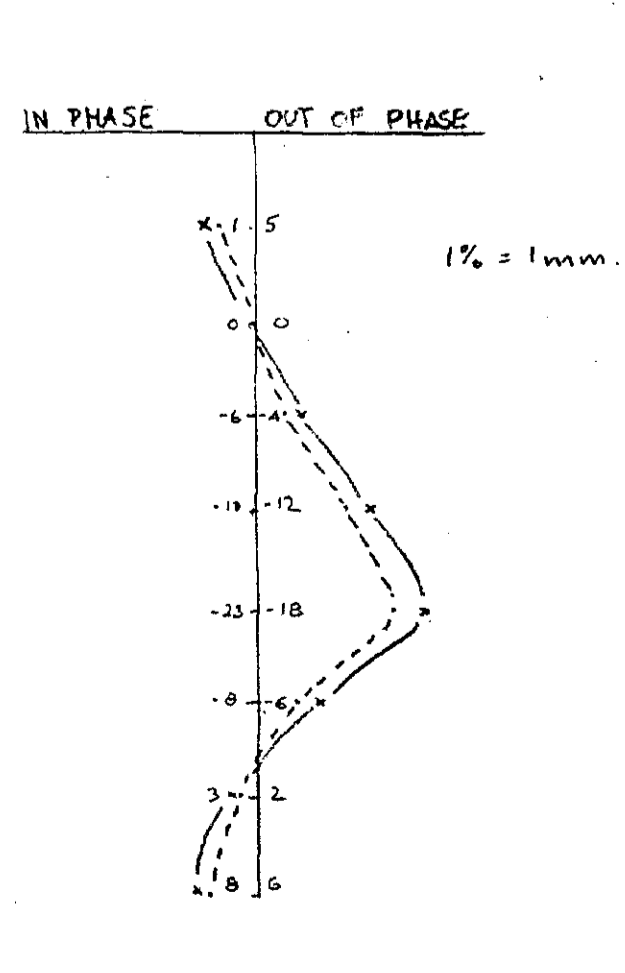
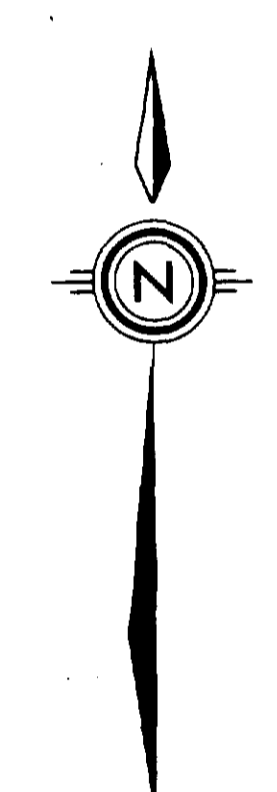
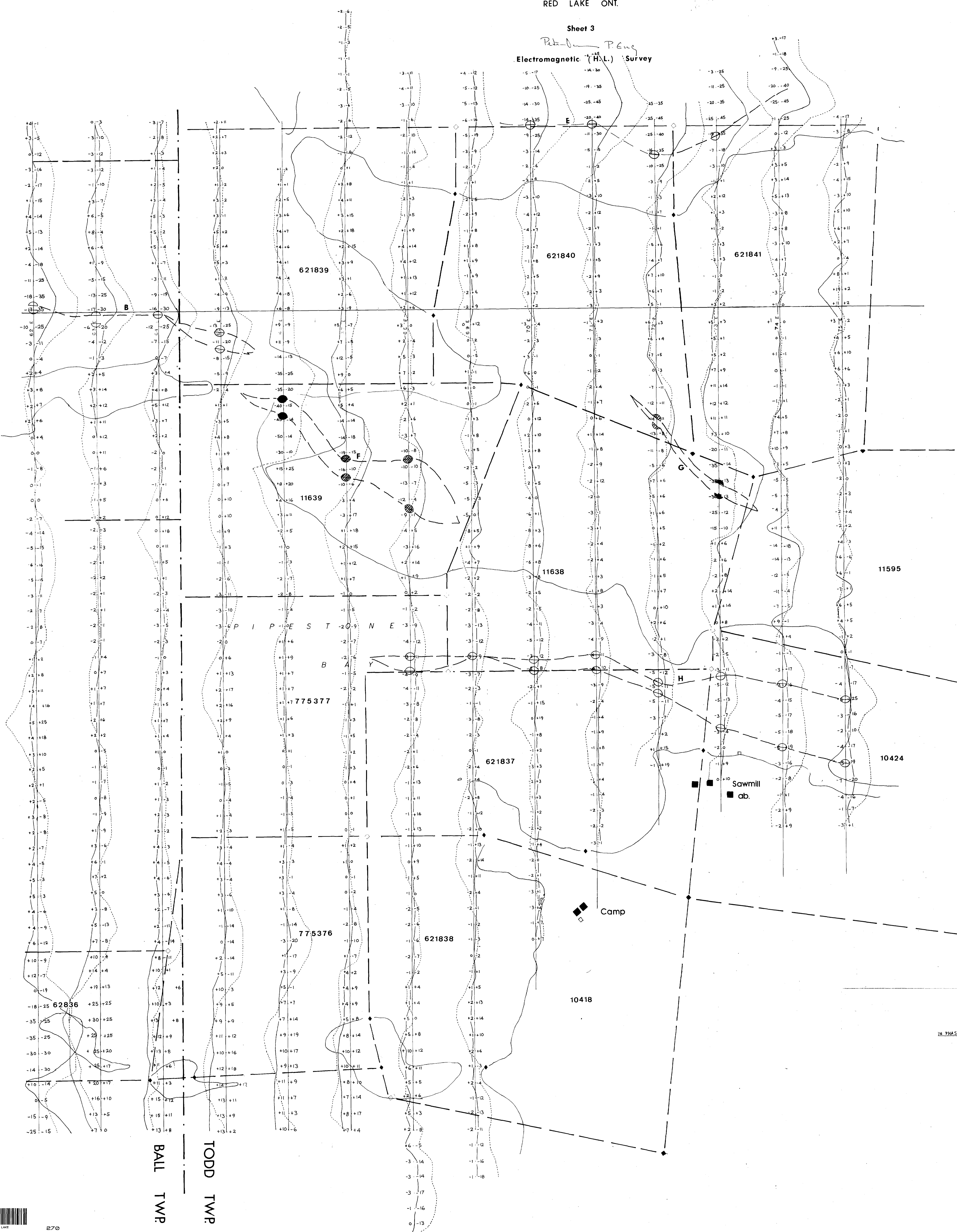
# BIRON BAY RESOURCES

RED LAKE ONT.

Sheet 3

Electromagnetic (H.L.) Survey

*Robt. P. C. C.*

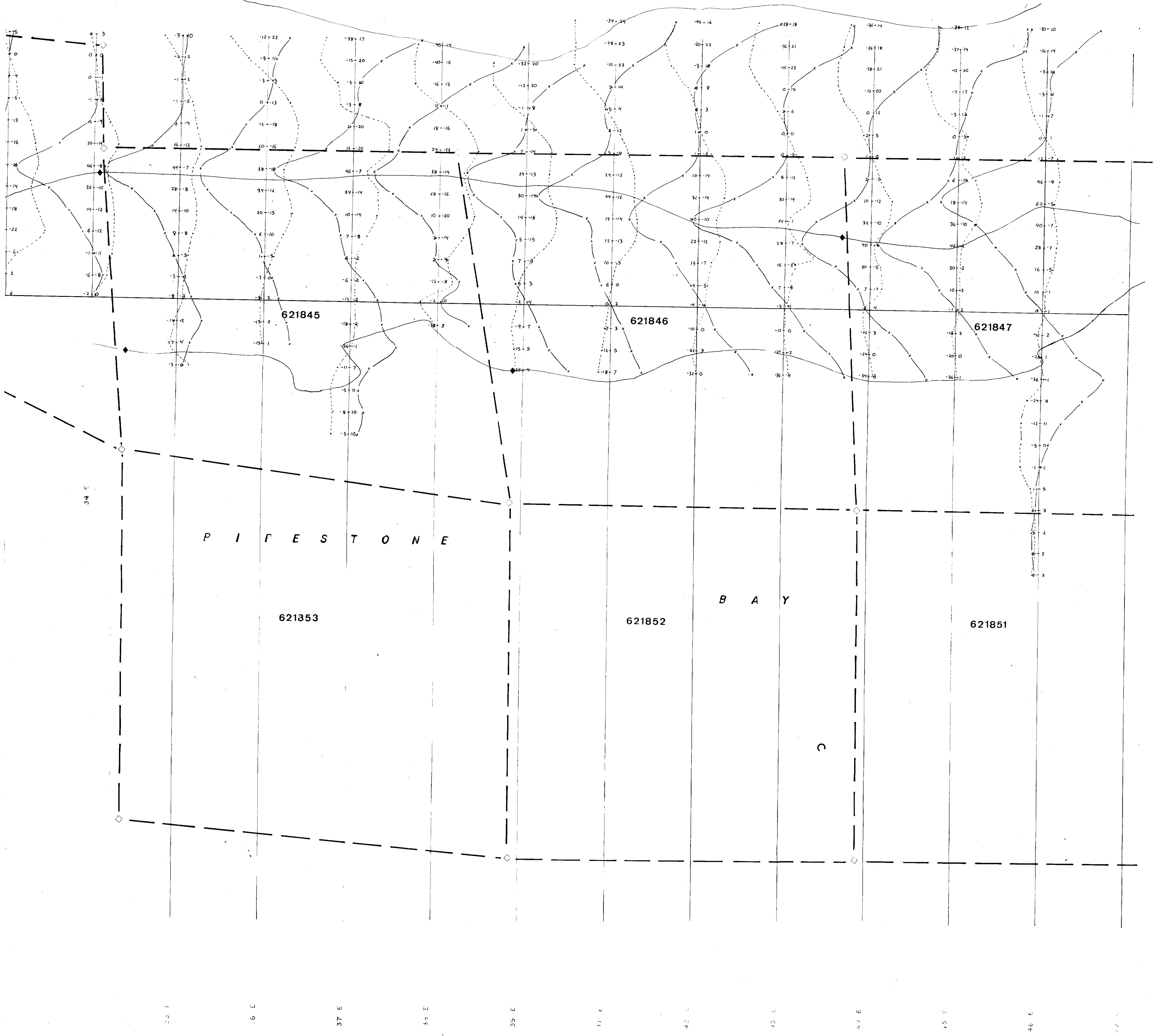


BIRON BAY RESOURCES LTD.

RED LAKE, ONT.  
Sheet 1

Electromagnetic (VLF) Survey.

*Peter Dan Pflug*



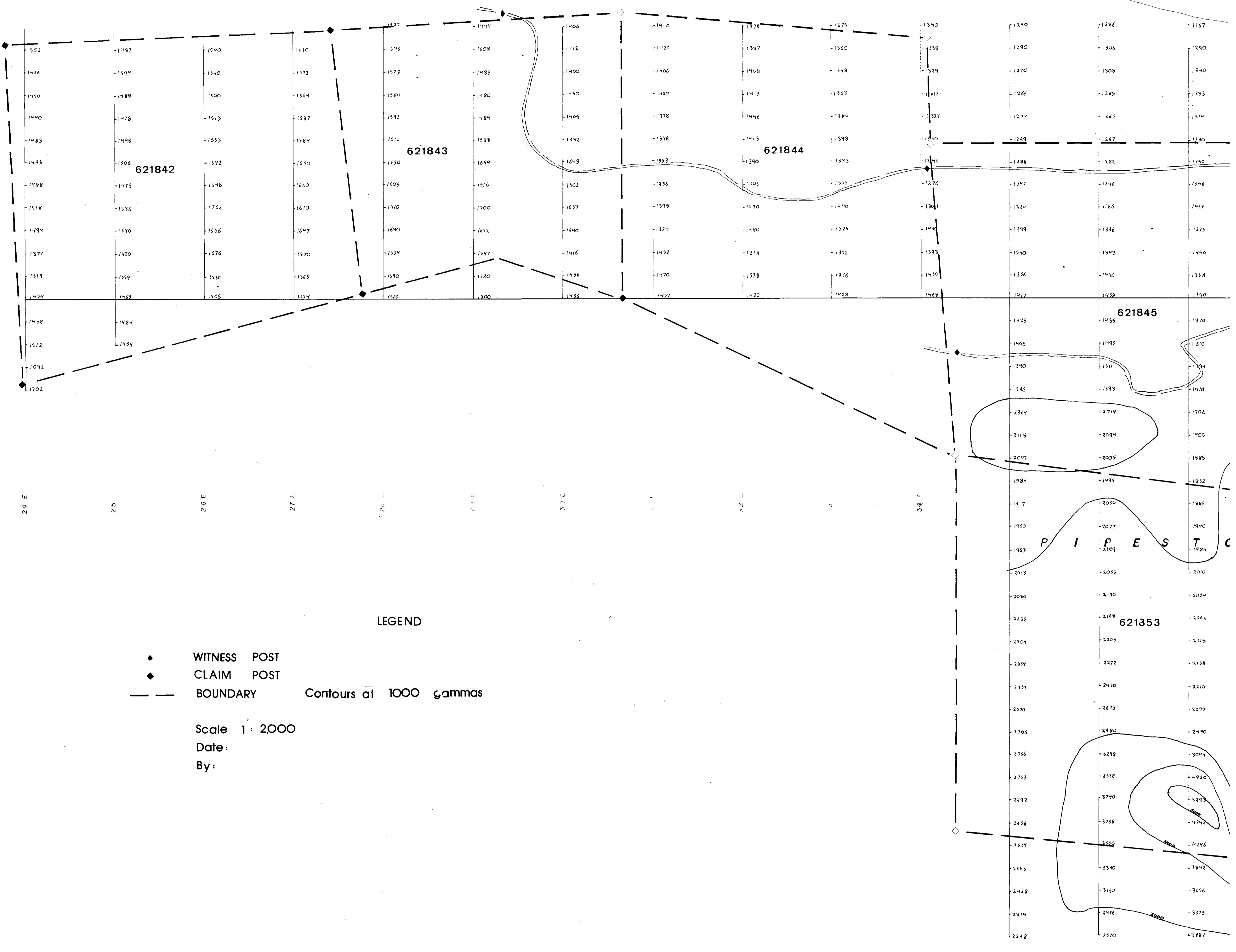


BIRON BAY RESOURCES LTD.

RED LAKE, ONT.  
Sheet 1

Magnetic Survey.

*Peter James P. Eng*



LEGEND

- ◆ WITNESS POST
  - ◆ CLAIM POST
  - BOUNDARY
- Contours at 1000 gammas

Scale 1: 2000

Date:

By:

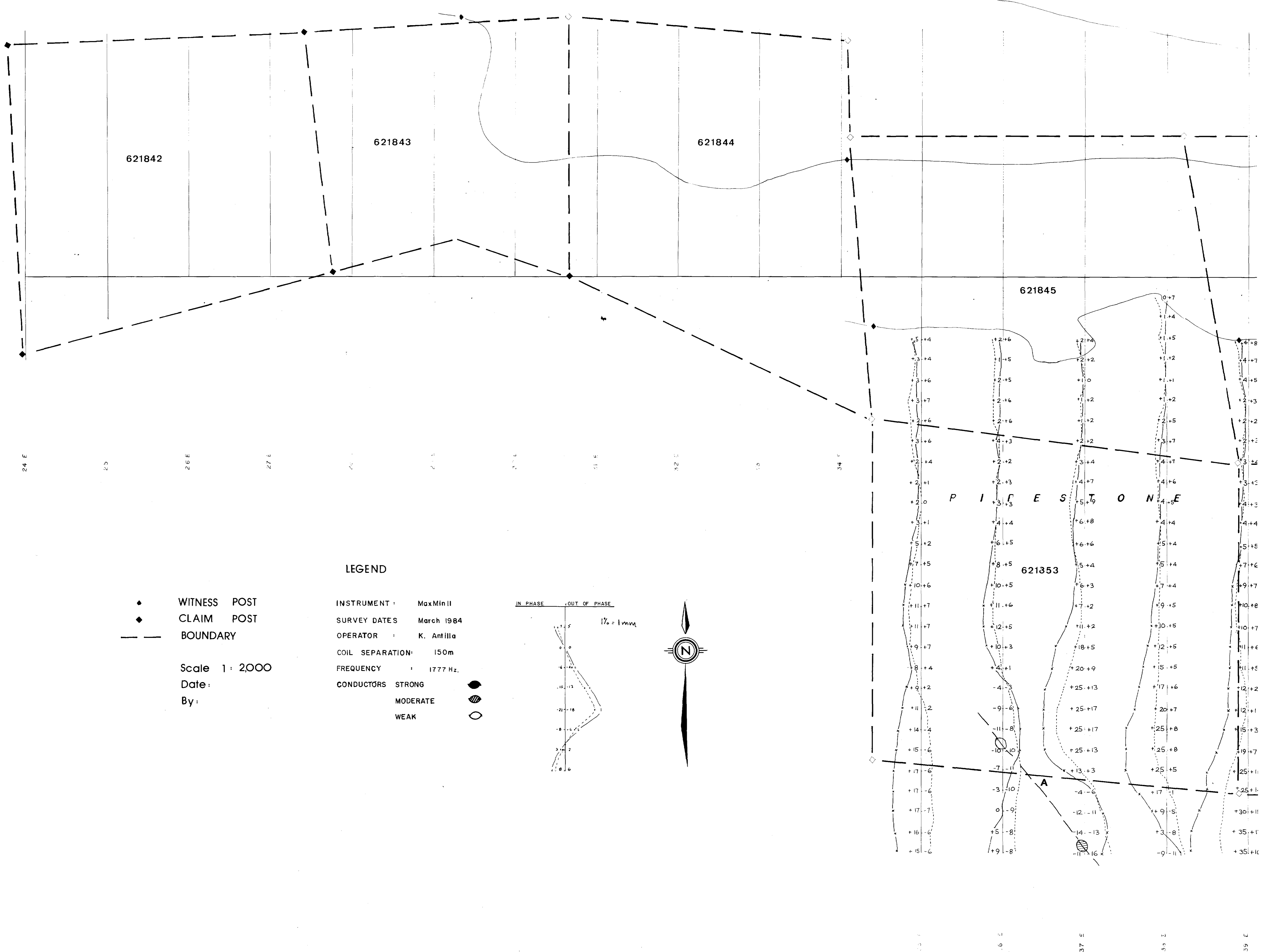


BIRON BAY RESOURCES LTD.

RED LAKE, ONT.  
Sheet 1

Electromagnetic (H. L.) Survey.

*Pete Downes P. Eng.*



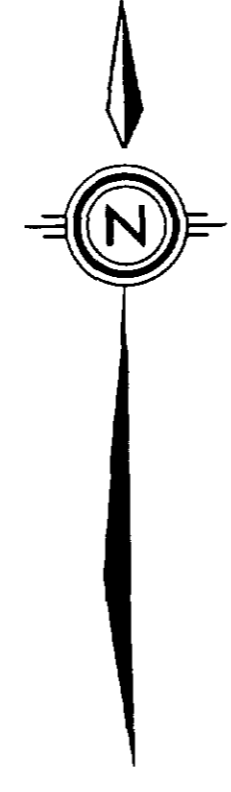
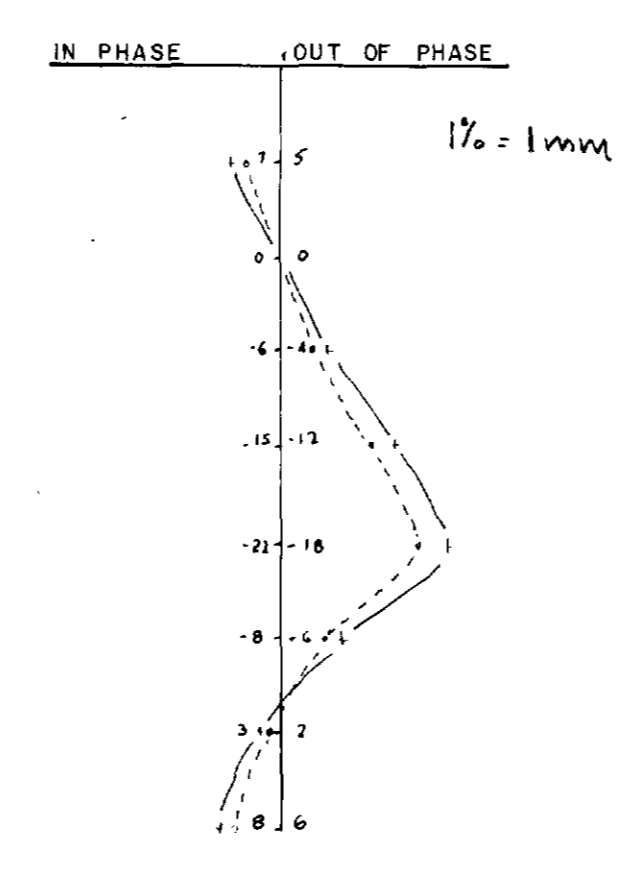
◆ WITNESS POST  
◆ CLAIM POST  
--- BOUNDARY

Scale 1:2,000  
Date:  
By:

**LEGEND**

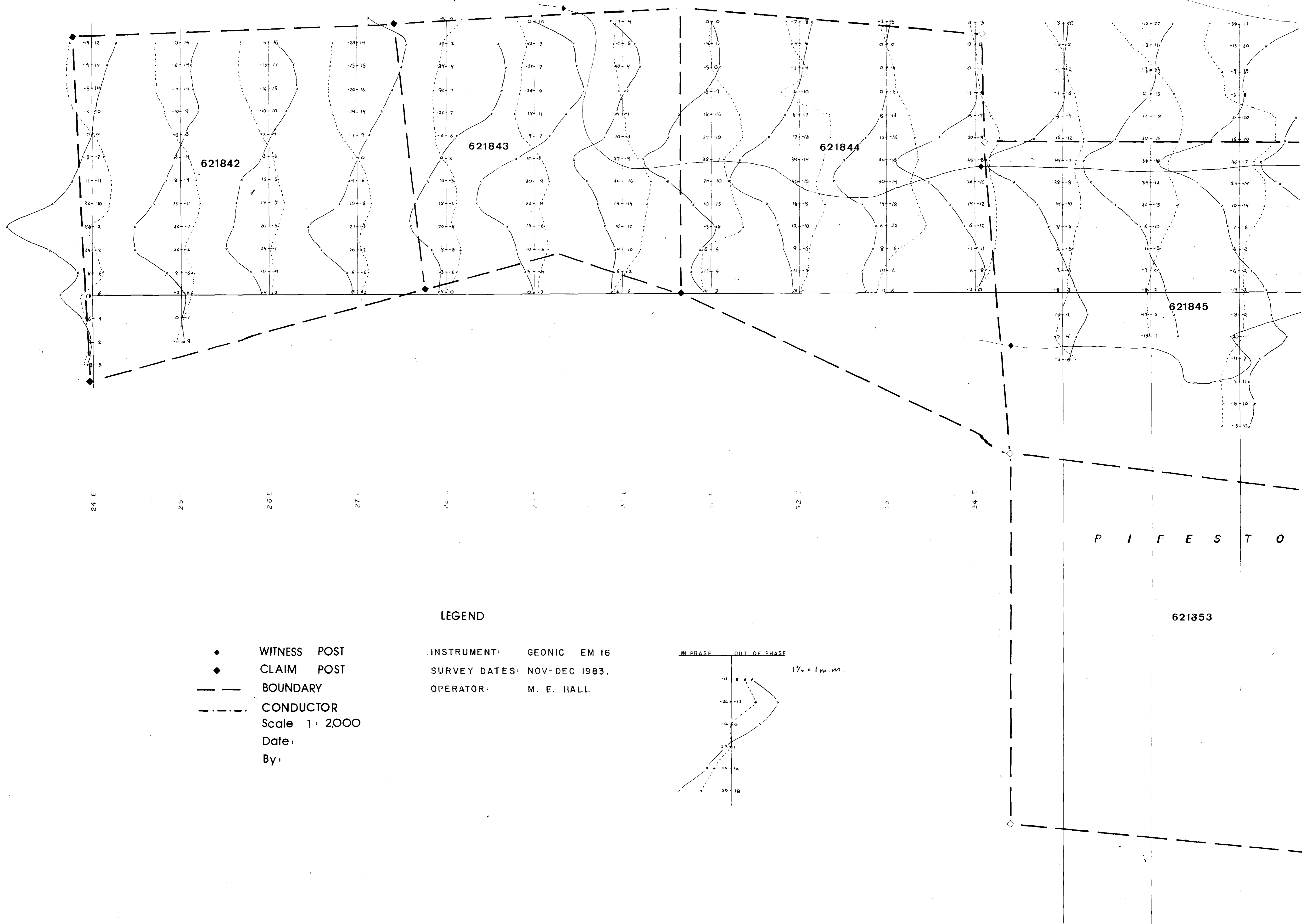
INSTRUMENT: MaxMin II  
SURVEY DATES: March 1984  
OPERATOR: K. Antilla  
COIL SEPARATION: 150m  
FREQUENCY: 1777 Hz.

CONDUCTORS STRONG ●  
MODERATE ◐  
WEAK ○





*Peter Van Pelt*



LEGEND  
 INSTRUMENT: GEONIC EM 16  
 SURVEY DATES: NOV-DEC 1983.  
 OPERATOR: M. E. HALL

◆ WITNESS POST  
 ◆ CLAIM POST  
 — BOUNDARY  
 - - - CONDUCTOR  
 Scale 1: 2000  
 Date:  
 By:

