



42B01SE0035 2.12547 HORWOOD

010

BRIEF GEOPHYSICAL REPORT
on the
Blueberry Island Property
of
PELANGIO-LARDER MINES LTD.,
and
BAYRIDGE DEVELOPMENT LTD.,
Joint Venture
Horwood Township, District of Sudbury
Porcupine Mining Division, Ontario
by
Richard Lachapelle, B.Sc., Ing., Jr.
April, 1989

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JUN - 8 1989

MINING LANDS SECTION



42B01SE0035 2.12547 HORWOOD

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IP PSEUDOSECTIONS

L0+00, L1+00W, L2+00W, L3+00W, L4+00W, L5+00W, L7+00W, L8+00W

INTRODUCTION

From March 12 to March 25, 1989 a program of induced polarization was conducted on the Blueberry Island Property for Pelangio-Larder Mines Ltd. and Bayridge Developments Ltd.

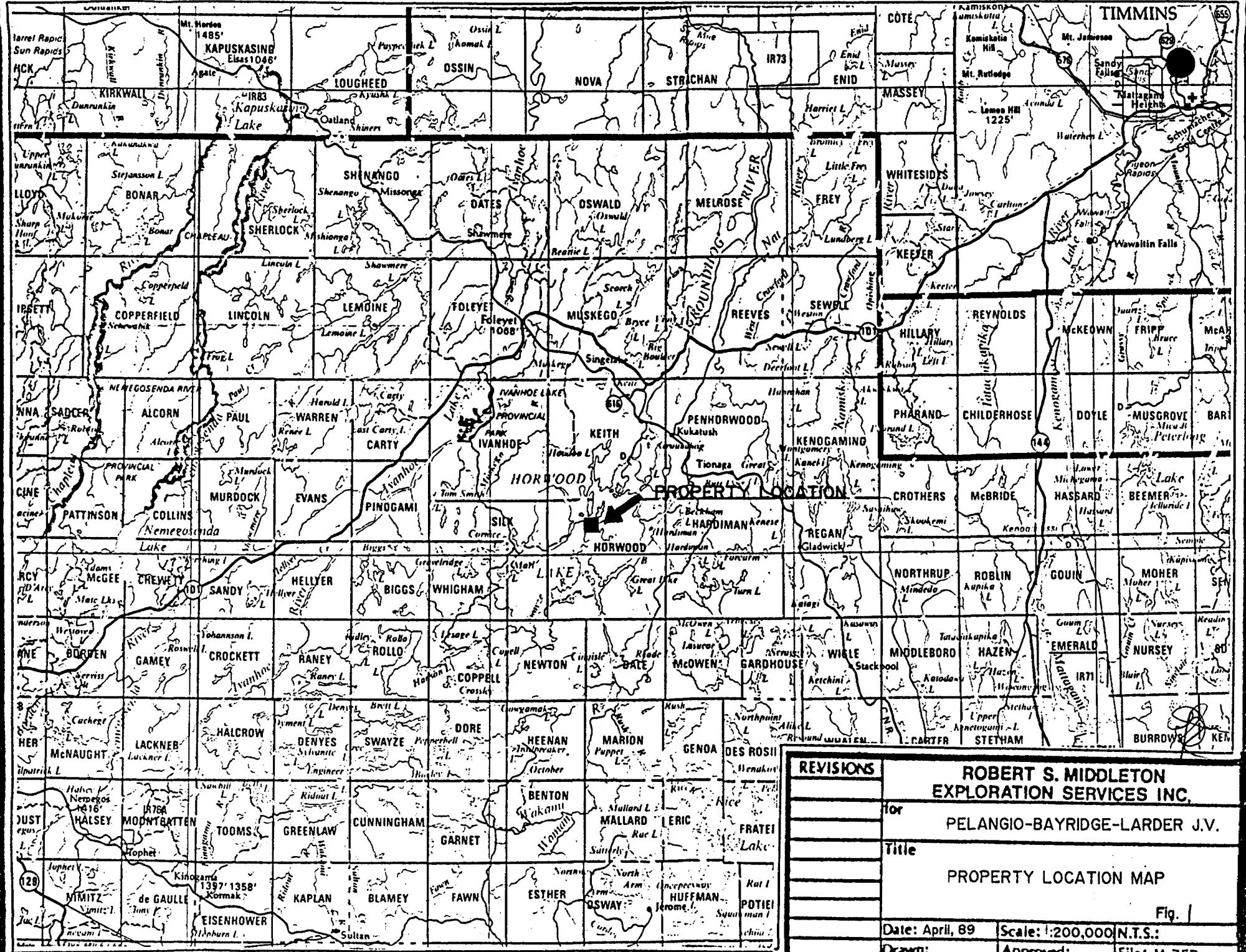
The geophysical surveying was conducted by Robert S. Middleton Exploration Services Inc. of Timmins, Ontario, and consisted of a time-domain induced polarization/resistivity survey. The survey was conducted as a follow-up and complimentary to a previous VLF-EM survey and extensive drilling program which delineated favourable geological settings worthy of further work.

CLAIM GROUP AND LOCATION

The Blueberry Island Property consists of 39 un-patented contiguous mining claims in Horwood Township, Porcupine Mining Division, Ontario (Figure 1). The registered holder of these claims is Pelangio-Larder Mines Ltd. The survey was performed on the following 6 claims:

798703
955556-58 inclusive
995951-52 inclusive

The claims are illustrated on the compilation map, Figure 2.



SURVEY PROCEDURE

INDUCED POLARIZATION/RESISTIVITY

Field Method

The survey was conducted using a pole-dipole array with a dipole length of 25m and array spacings of $n=2, \dots, 5$ dipoles. This array configuration involves having a dipole for the receiver measuring V_p , the potential and a single current transmitter electrode on the grid, separated from the receiver dipole by each ' n ' interval in turn. The other current electrode, 'the infinity' is situated 2 kilometers or more from the grid.

For this survey the measurements were taken in the time domain, so the transmitted current was a bi-polar on-off square wave with each on or off lasting two seconds. Measurements of resistivity and chargeability were taken every 25m.

PERSONNEL AND EQUIPMENT

The induced polarization was conducted by a four-man crew supplied by Robert S. Middleton Exploration Services Inc. of Timmins, Ontario. The crew chief was Mark Wilson of 136 Cedar Street South, Timmins, Ontario.

The equipment used consisted of a Geotrex IPR-11 time-domain induced polarization receiver and a Geotrex TSQ-3, 3Kw transmitter.

SURVEY STATISTICS

The survey comprised a total of 5.55 line km of time-domain induced polarization/resistivity readings. The survey required 13.5 days to complete of which one day was lost due to equipment failure and 2.5 days were used for camp mobilization/demobilization.

INTERPRETATION

The induced polarization survey delineated three weak to moderate sub-parallel easterly trending anomalies, denoted A-A, B-B and D-D, which are illustrated on the geophysical compilation map, Figure 2. The resistivity signature observed for the first two separations ($n=2$ and $n=3$) indicate a substantial thickness of conductive lake-bottom sediments. The presence of this conductive sediment layer can render precise readings difficult to obtain.

The general strike of the IP anomalies agrees well with previous diamond drill results done by Kerr Addison Mines Ltd. in 1960 (Darke, 1988). Based on these previous drilling results, the IP anomalies are interpreted to possibly represent "narrow, gold-bearing quartz-carbonate stringer veins/cherty horizons" in metavolcanic rocks.

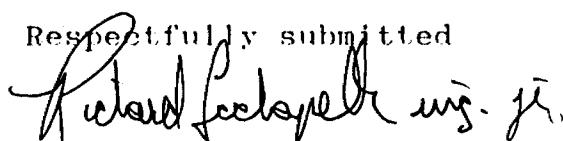
CONCLUSIONS AND RECOMMENDATIONS

The induced polarization survey delineated several weak to moderate sub-parallel anomalies. The presence of a substantial thickness of lake-bottom sediments has modified the true signature of these anomalies making them appear weaker than they really are, and in some cases, such as between lines 2+00W and 3+00W and between baseline and station 1+00N, rendered adequate readings impossible to obtain.

The induced polarization anomalies are on strike with promising gold-bearing horizons and should therefore not be dismissed as too weak and insignificant.

Therefore an extensive diamond drilling program is recommended on these anomalies, more specifically on the western extension of anomaly D-D, which has the highest chargeability signature of the three anomalies.

Respectfully submitted



Richard Lachapelle, B.Sc., Ing., Jr.

REFERENCES

DARKE, K.H.
1988

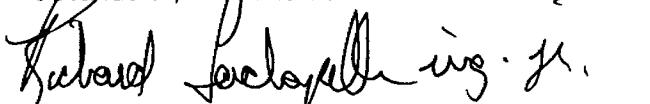
GEOLOGICAL EXPLORATION REPORT on the BLUEBERRY
ISLAND GOLD PROPERTY, HORWOOD TOWNSHIP,
ONTARIO, Porcupine Mining Division, District
of Sudbury for BAYRIDGE DEVELOPMENTS LTD.,
March 4, 1988

CERTIFICATION

I, Richard Lachapelle, of 136 Cedar Street South, in the City of Timmins, Province of Ontario, certify as follows concerning my report on the Pelangio-Larder Mines Ltd. and Bayridge Development Ltd. joint venture Blueberry Island Property in Horwood Township, Province of Ontario and dated April 25, 1989.

1. I am a junior member in good standing of l'Ordre des Ingenieurs du Quebec.
2. I am a graduate of l'Universite de Sherbrooke, Sherbrooke, Quebec with a B.Sc. degree in Physics, obtained in 1984.
3. I am a graduate of l'Ecole Polytechnique de Montreal, Montreal, Quebec with a B.Ing. degree in Geological Engineering obtained in 1987.
4. I have been practising in Canada for the past 2 years.
5. I have no direct interest in the properties, leases, or securities of Pelangio-Larder Mines Ltd. or Bayridge Development Ltd. nor do I expect to receive any.
6. The attached report is a product of:
a) Examination of data included in the report which was collected on the property concerned.

Dated this 25th day of April
TIMMINS, Ontario

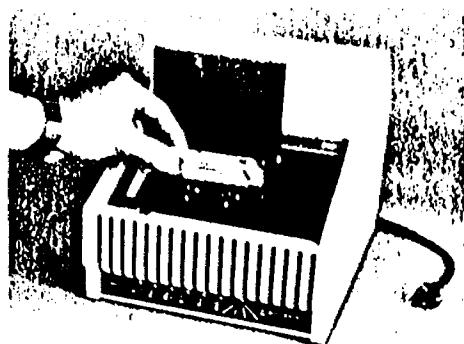

Richard Lachapelle, B.Sc.Ing.Jr.
Geophysicist


Richard Lachapelle
B.Sc.Ing.Jr.
Geophysicist
April 25, 1989

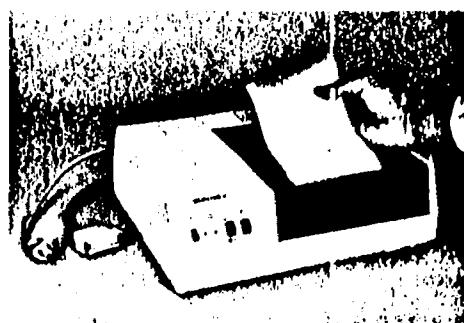
A P P E N D I X A

Technical Description of the IPR-11 Broadband Time Domain IP Receiver

Input Potential Dipoles	1 to 8 simultaneously
Input Impedance	4 megohms
Input Voltage (Vp) Range	100 microvolts to 6 volts for measurement. Zener diode protection up to 50 V
Automatic SP Bucking Range	±1.5 V
Chargeability (M) Range	0 to 300 mV/V (mils or 0/00)
Absolute Accuracy of Vp, SP and M	Vp; ±3% of reading for Vp > 100 microvolts SP; ±3% of SP bucking range M; ±3% of reading or minimum ±0.5m V/V
Resolution of Vp, SP and M	Vp; 1 m V above 100 m V approaching 1 microvolt at 100 microvolt SP; 1 m V M; 0.1 m V/V except for M ₀ to M ₃ in 0.2 second receive time where resolution is 0.4 m V/V.
IP Transient Program	Ten transient windows per input dipole. After a delay from current off of t, first four windows each have a width of t, next three windows each have a width of 6t and last three windows each have a width of 12t. The total measuring time is therefore 58t. t can be set at 3, 15, 30 or 60 milliseconds for nominal total receive times of 0.2, 1, 2 and 4 seconds.
Vp Integration Time	In 0.2 and 1 second receive time modes; 0.51 sec In 2 second mode; 1.02 sec In 4 second mode; 2.04 sec
Transmitter Timing	Equal on and off times with polarity change each half cycle. On/off times of 1, 2, 4 or 8 seconds with ±2.5% accuracy are required.
Header Capacity	Up to 17 four digit headers can be stored with each observation.
Data Memory Capacity	Depends on how many dipoles are recorded with each header. If four header items are used with 6 dipoles of SP, Vp and 10 M windows each, then about 200 dipole measurements can be stored. Up to three Optional Data Memory Expansion Blocks are available, each with a capacity of about 200 dipoles.
External Circuit Check	Checks up to six dipoles simultaneously using a 31 Hz square wave and readout on front panel meters, in range of 0 to 200 k ohms.
Filtering	RF filter, spheric spike removal; switchable 50 or 60 Hz notch filters, low pass filters which are automatically removed from the circuit in the 0.2 sec receive time.
Internal Calibrator	1000 mV of SP, 200 mV of Vp and 24.3 mV/V of M provided in 2 sec pulses.
Digital Display	Two, 4 digit LCD displays. One presents data, either measured or manually entered by the operator. The second display; 1) indicates codes identifying the data shown on the first display, and 2) shows alarm codes indicating errors.
Analog Meters	Six meters for; 1) checking external circuit resistance, and 2) monitoring input signals.
Digital Data Output	RS-232C compatible, 7 bit ASCII, no parity, serial data output for communication with a digital printer, tape recorder or modem.



Industry standard cassette recorders such as this MFE-2500 can be connected directly to the IPR-11.



DP-4 Digital Printer

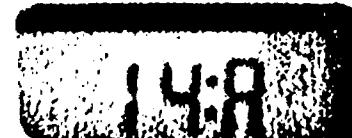
Technical Description of the IPR-11 Broadband Time Domain IP Receiver

Standard Rechargeable Power Supply	Eight Eveready CH4 rechargeable NiCad D cells provide approximately 15 hours of continuous operation at 25°C. Supplied with a battery charger, suitable for 110/230 V, 50 to 400 Hz, 10 W.
Disposable Battery Power Supply	At 25°C, about 40 hours of continuous operation are obtained from 8 Eveready E95 or equivalent alkaline D cells.
	At 25°C, about 16 hours of continuous operation are obtained from 8 Eveready 1150 or equivalent carbon-zinc D cells.
Dimensions	345 mm x 250 mm x 300 mm, Including lid.
Weight	10.5 kg, Including batteries.
Operating Temperature Range	-20 to +55°C, limited by display.
Storage Temperature Range	-40 to +60°C.
Standard Items	Console with lid and set of rechargeable batteries, 2 copies of manual, battery charger.
Optional Items	Multidipole Potential Cables, Data Memory Expansion Blocks, Statistical Analysis Program, Crystal Clock, SPECTRUM Program, Digital Printer, Cassette Tape Recorder, Modem.
Shipping Weight	25 kg Includes reusable wooden shipping case.

SCINTREX

DATA

INDEX VARIABLE



222 Snidercroft Road
Concord Ontario Canada
L4K 1B5

Telephone: (416) 669-2280
Cable: Geoscnt Toronto
Telex: 06-964570

Geophysical and Geochemical
Instrumentation and Services

IPR-11 LCD displays, actual size

2. TSQ-3 Transmitter Console & Motor - Generator Specifications

Transmitter Console

Output Power	3000 VA maximum
Output Voltages	300, 400, 500, 600, 750, 900, 1050, 1200, 1350 and 1500 volts, switch selectable
Output Current	10 amperes maximum
Output Current Stability	Automatically controlled to within $\pm 0.1\%$ for up to 20% external load variation or up to $\pm 10\%$ input voltage variations.
Stabilization Over-range Protection	High voltage shuts off automatically if the control range of 20% is exceeded.
Digital Display	Light emitting diodes permit display up to 1999 with variable decimal point; switch selectable to read input voltage, output current, external circuit resistance, dual current range, switch selectable.
Current Reading Resolution	10 mA on coarse range (1-10A). 1 mA on fine range (0-2A)
Frequency Domain Waveform	Square wave, approximately 6% off at each polarity change
Frequency Domain	Standard: 0.1, 0.3, 1.0 and 3.0 Hz, switch selectable. Optional: any number of frequencies in range 0.1 to 5 Hz.
Time Domain Cycle Timing	t:t:t:t; on:off:on:off: automatic
Time Domain Polarity Change	Each 2t; automatic
Time Domain Pulse Durations	Standard: t=1,2,4,8,16 and 32 seconds Optional: any other timings
Time and Frequency Stability	Crystal controlled to better than 0.1% with external clock option better than 20 ppm over operating temperature range.
Efficiency	.78

Operating Temperature Range	-30°C to +50°C
Overload Protection	Automatic shut-off at 3000 VA.
Underload Protection	Automatic shut-off at current below 85 mA
Thermal Protection	Automatic shut-off at internal temperature of 85°C
Dimensions	350 mm x 530 mm x 320 mm
Weight	25.0 kg
Motor-Generator	
Type	Motor flexibly coupled to alternator and installed on a frame with carrying handles.
Motor	Briggs and Stratton, four stroke, 8 HP
Alternator	Permanent magnet type, 800 Hz, three phase 230 V AC at full load.
Output Power	3500 V A maximum
Dimensions	520 mm x 715 mm x 560 mm.
Weight	72.5 kg.
Total System	
Shipping Weight	150 kg includes transmitter console, motor-generator, connecting cables and reusable wooden crates.

- - - -



1. Type of Survey Induced Polarization
2. Township or Area Horwood Twp.
3. Numbers of Mining Claims Traversed by Survey 6 claims
P 798703, P 955556, P 955557, P 955558, P 995951, P 995952
4. Number of Miles of Line Cut .5.55 km Flown
- *5. Number of Stations Established 5.55km.....
- *6. Make and type of Instrument Used I PR-11, Scintrex TSQ3.....
- *7. Scale Constant or Sensitivity 1 MV/V.....
- *8. Frequency Used and Power Output 2 on 2 off, 0. second bipolar, 3 kwatt.....

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) .44.....

Total 8 hour Line-Cutting Days 6.....

Calculation

$$\frac{.44}{Technical} \times 7 = \frac{3.08}{Line-cutting} + \frac{6}{Number of claims} = \frac{3.14}{Assessment credits per claim}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check
If otherwise, please explain

Dated: May 19, 1982.....

Signed:

Maurice Hibbard

- Note: (A) * Complete only if applicable.
(B) Complete list of names, addresses and dates on reverse side.
(C) Submit separate breakdown for each type of survey.
(D) Submit in duplicate.



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

DOCUMENT No.
W 8906-293

- 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.

July 8

Mining Act

Type of Survey(s) I.P. Survey	Township or Area 2.12547 Horwood Twp.
Claim Holder(s) Pelangio-Larder Mines Ltd.	Prospector's Licence No. T 971
Address 220 Bay Street, Suite 701, TORONTO, Ont. M5J 1P8	
Survey Company Robert S. Middleton Exploration Services	Date of Survey (from & to) 12 03 89 25 03 89
Name and Address of Author (of Geo-Technical report) Richard Lachapelle, 136 Cedar St. S. Timmins, Ont.	Total Miles of line Cut 6 MILES

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim	Mining Claim		Expend. Days Cr.	Mining Claim	Expend. Days Cr.
			Prefix	Number			
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic		P	798703			
	- Magnetometer			995556			
	- Radiometric			995557			
	- Other			995558			
For each additional survey: using the same grid: Enter 20 days (for each)	Geological			995951	52.3		
	Geochemical			995952	52.8		
Man Days	Geophysical	Days per Claim		955556	20		
Complete reverse side and enter total(s) here	- Electromagnetic			955557	20		
	- Magnetometer			955558	20		
	- Radiometric						
	- Other I.P.	52.3					
	Geological						
	Geochemical						
Airborne Credits	Electromagnetic	Days per Claim					
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer						
	Radiometric						

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MINING LANDS SECTION

RECORDED

MAY 19 1989

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE

SEP 08 1989

RECEIVED

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days' Credits

Total Days Cr. **MAY 19 1989** ÷ 15 = **12.6**

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 **MAY 19 1989** Recorded Holder or Agent (Signature) **Middlehand**

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

Maurice Hibbard

CECIL HILL CONNAUGHT Ont.

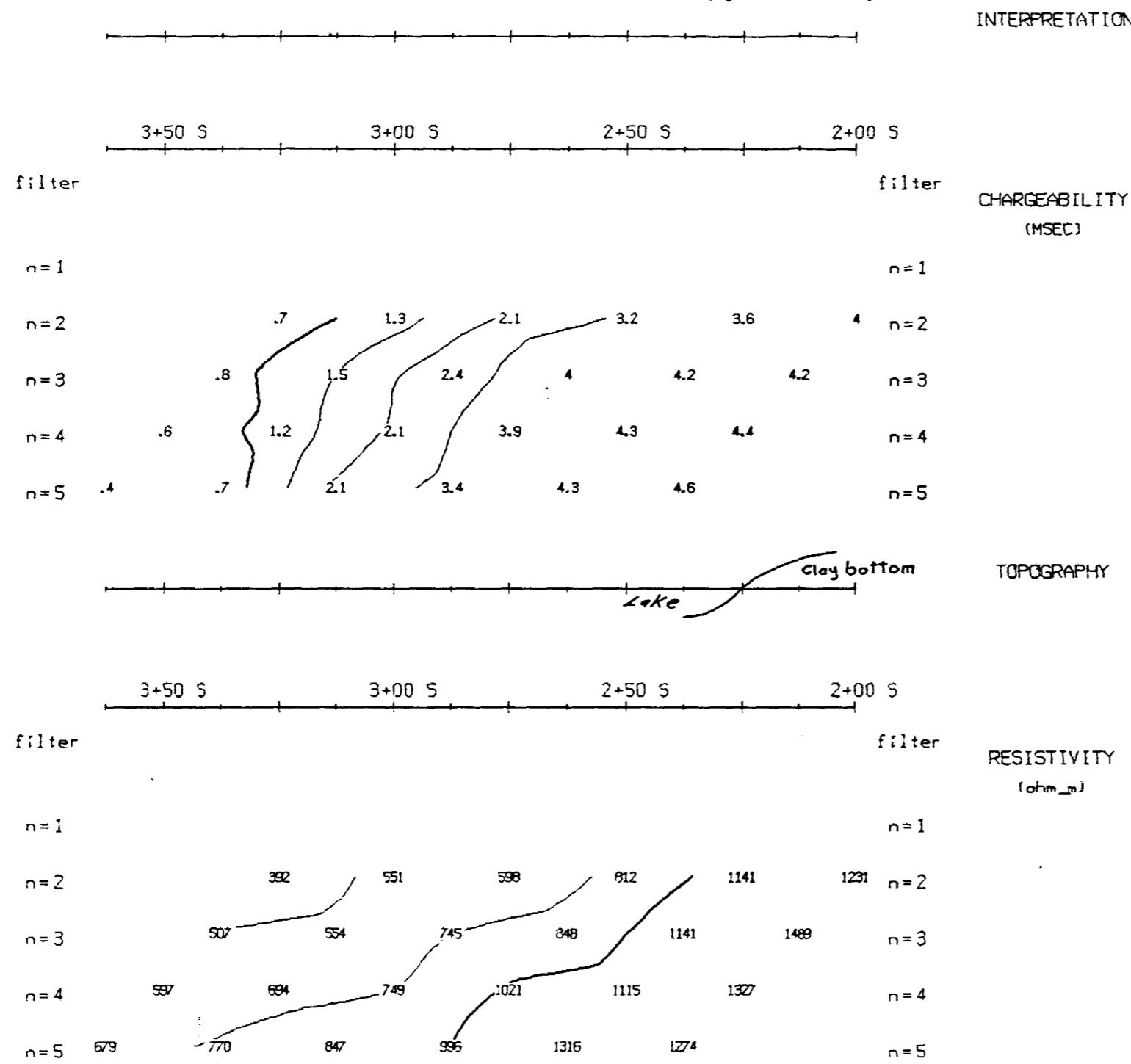
For Office Use Only	
Total Days Cr. Recorded	Date Recorded
164.6	MAY 19 89
Date Approved as Recorded	AB
Aug 4 1989	
Mining Recorder	G. White
Breach F. or	Allowance

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

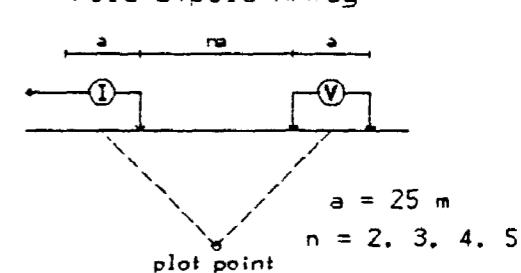
6

Date Certified **May 19, 1989**

Certified (Signature) **Maurice Hibbard**



2. 1254



Filtered Profiles

Resistivity	-----	filter	*
Chargeability	-----		**
Metal Factor	-----		***

Logarithmic
Contours 1. 1.5. 2. 3. 5. 7.5. 10....

Instrument: IPR-11

Transmitter: TSQ - 3

Operator: M. Wilson

I.P. ANOMALIES

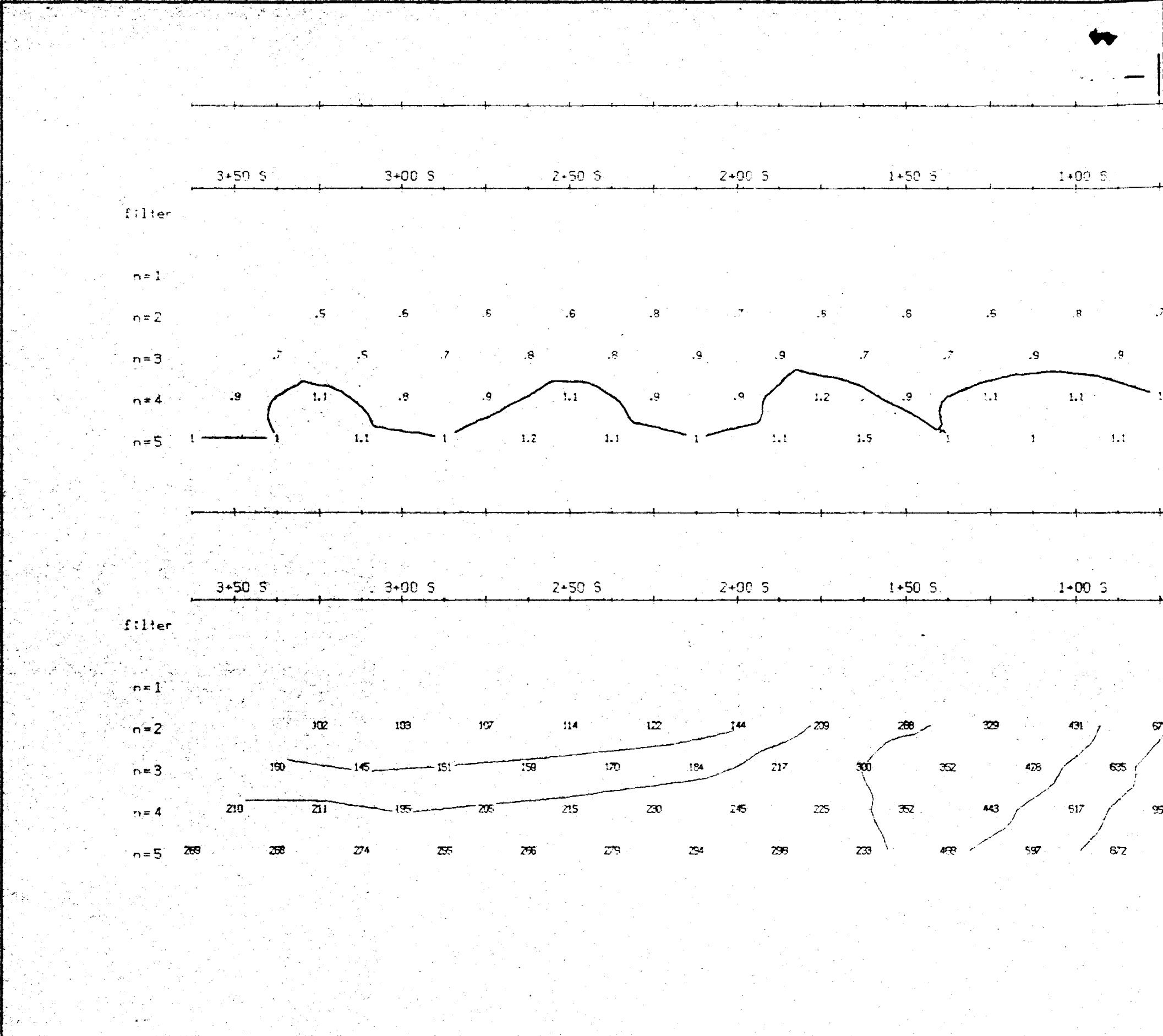
WEAK	I	RESISTIVITY CONTRAST
MODERATE	C	CONDUCTOR
STRONG	\$	SHEAR

ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.

for PELANGI - BAYRIDGE J.V.

Title Time Domain
INDUCED POLARIZATION SURVEY
Blueberry Island Gold Property
Horwood Twp. Ont.

Date: Mar. 23, 1989 Scale: 1 : 1250
Interp. by: R. L. Job # M-357



INTERPRETATION

0+50 S

filter

CHARGEABILITY
(MSEC)

n=1

n=2

.8

n=3

n=4

n=5

TOPOGRAPHY

0+50 S

filter

RESISTIVITY
(ohm_m)

n=1

689 n=2

n=3

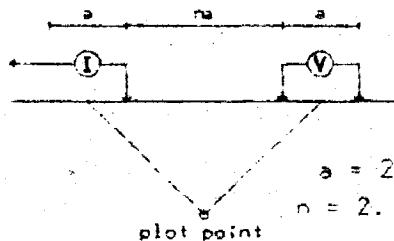
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n=5

2.12547

8+00 W

Pole-Dipole Array



Filtered Profiles

Resistivity -----
Chargeability -----
Metal Factor -----

filter
*
**

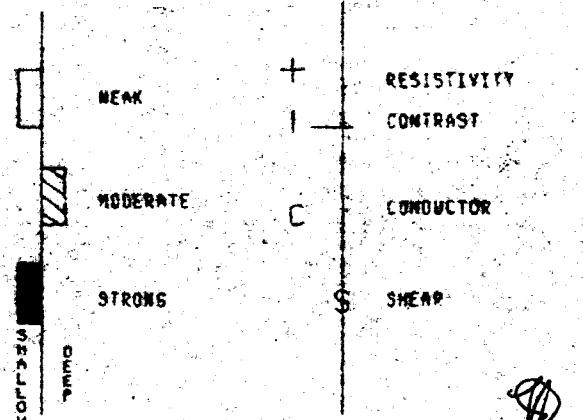
Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10....

Instrument: IPR-11

Transmitter: TSQ - 3

Operator: M. Wilson

I.P. ANOMALIES



ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.

for PELANGIO - BAYRIDGE J.V.

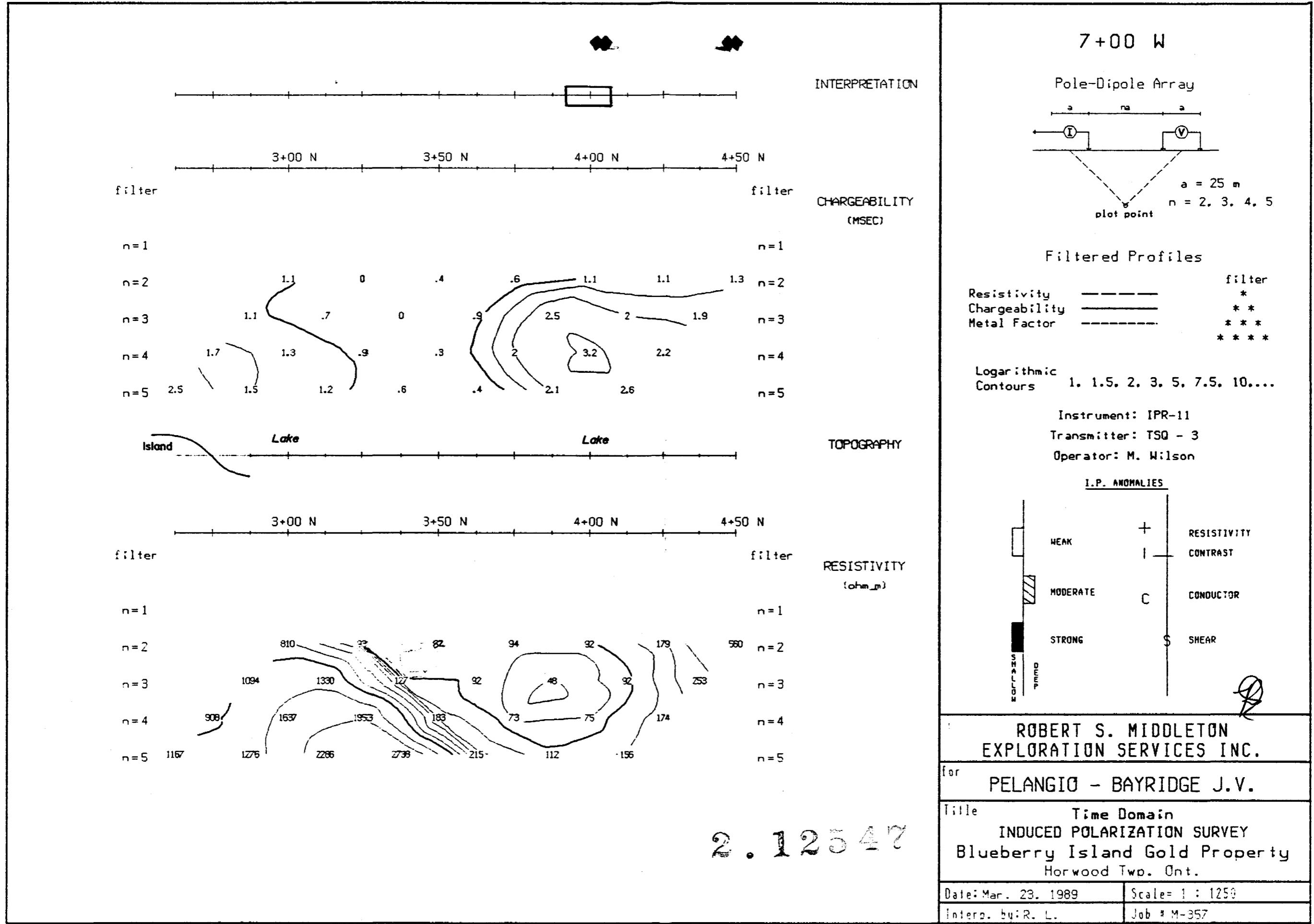
Title Time Domain
INDUCED POLARIZATION SURVEY
Blueberry Island Gold Property
Horwood Twp. Ont.

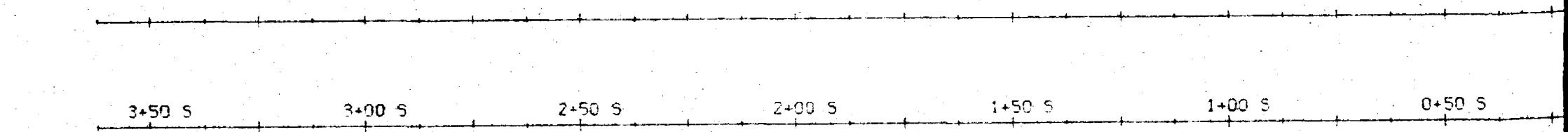
Date: Mar. 21, 1989

Scale: 1 : 1250

Interp. by: R. L.

Job #: M-357





filter

$n=1$

$n=2$

$n=3$

$n=4$

$n=5$

filter

$n=1$

$n=2$

$n=3$

$n=4$

$n=5$

INTERPRETATION

0+00

filter

CHARGEABILITY
(MSECT)

n = 1

•

7 n = 2

n = 3

n = 4

n = 5

TOPOGRAPHY

0+00

filter

RESISTIVITY
(ohm.m)

n = 1

864 n = 2

1379

n = 3

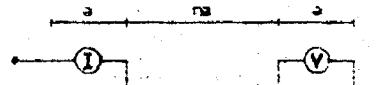
n = 4

n = 5

2.12547

7+00 W

Pole-Dipole Array



a = 25 m

n = 2, 3, 4, 5

plot point

Filtered Profiles

Resistivity -----
 Chargeability -----
 Metal Factor -----

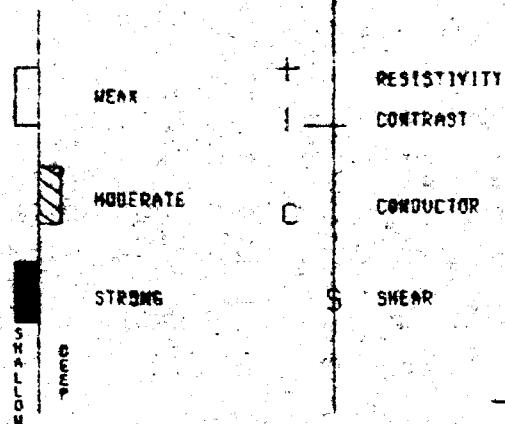
filter
*
**

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: IPR-11

Transmitter: TSO - 3

Operator: M. Wilson

I.P. ANOMALIES

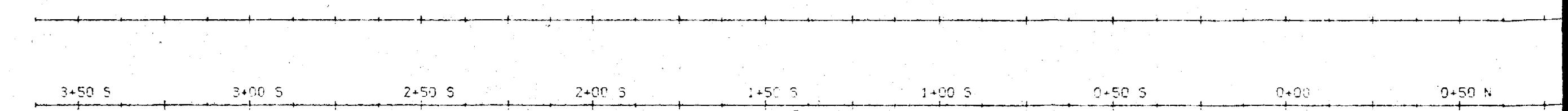
ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.

for

PELANGIO - BAYRIDGE J.V.

Title Time Domain
 INDUCED POLARIZATION SURVEY
 Blueberry Island Gold Property
 Norwood Twp. Ont.

Date: Mar. 22, 1989	Scale: 1 : 1250
Interp. by: R. L.	Job # M-357



filter

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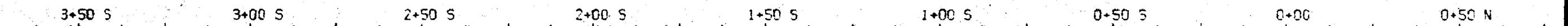
n=2

n=3

n=4

n=5

Lake



filter

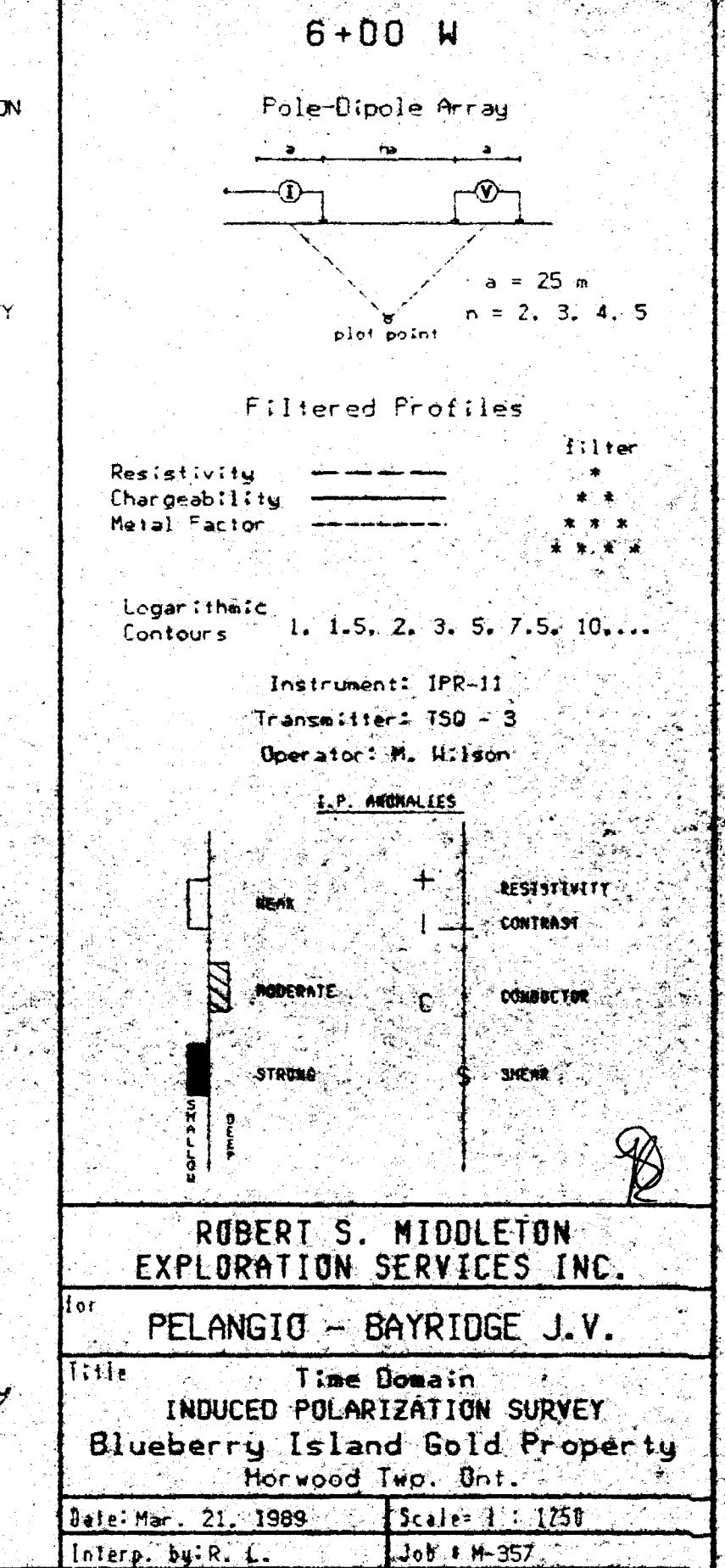
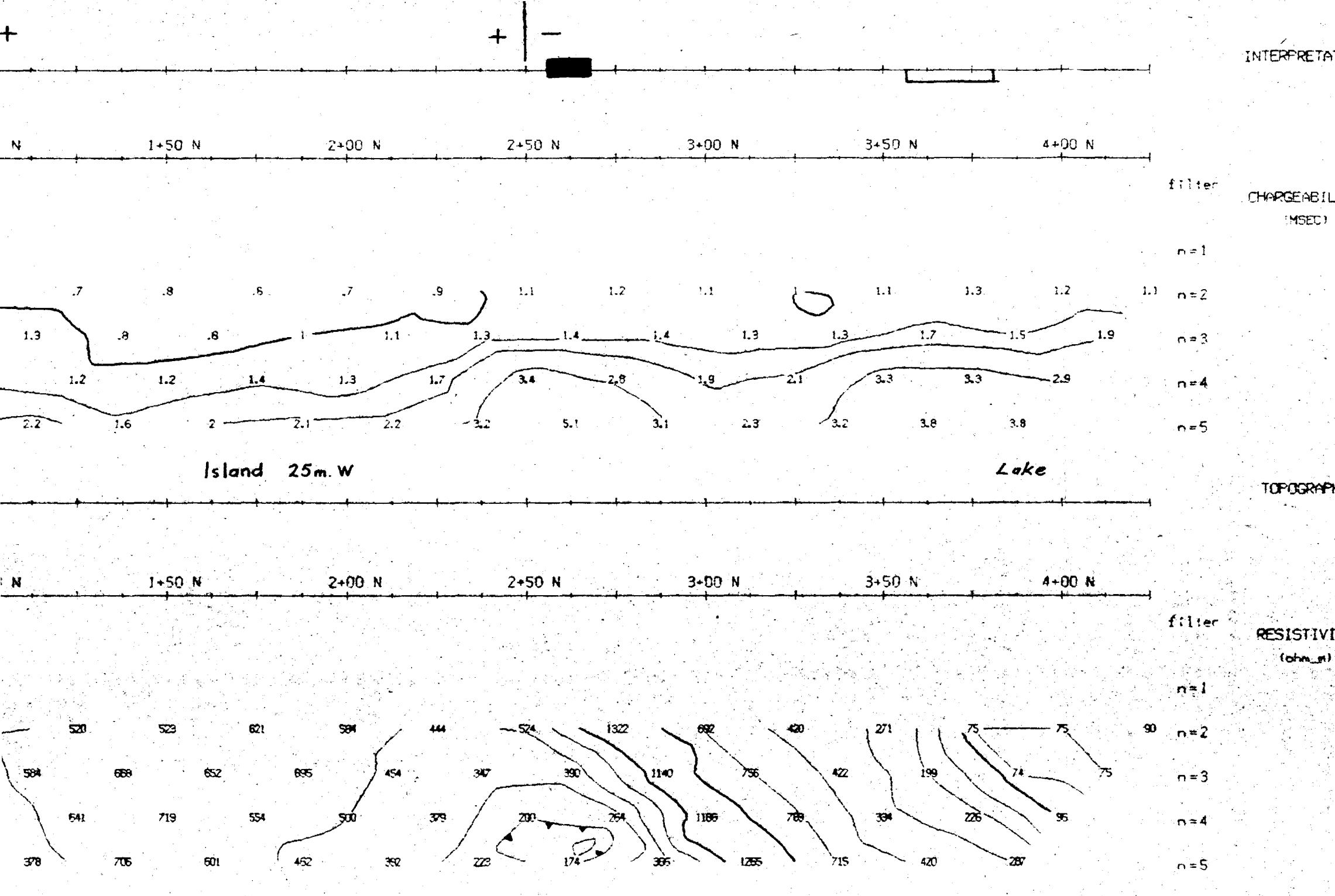
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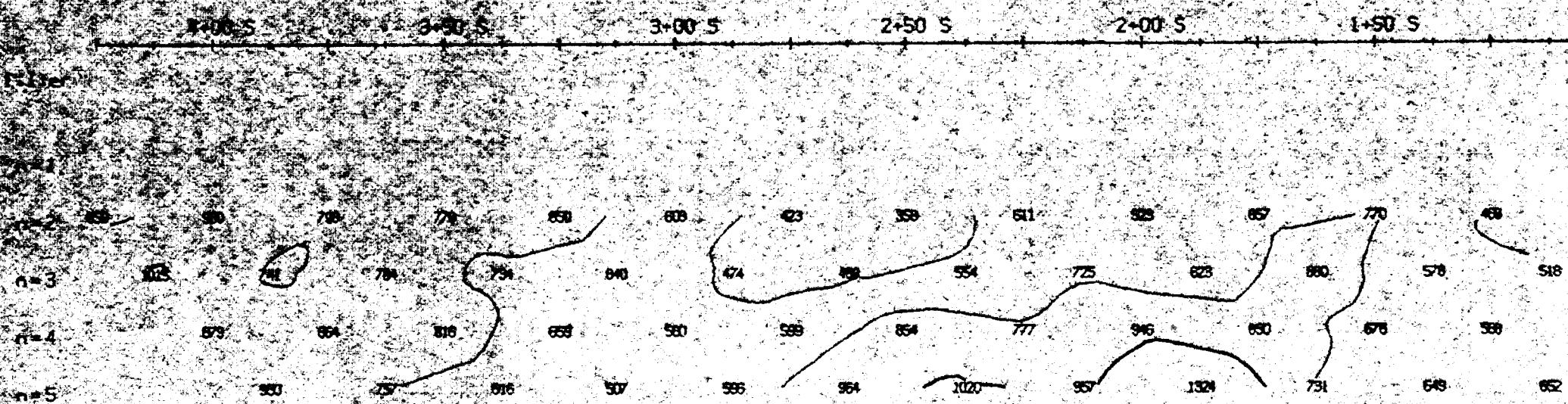
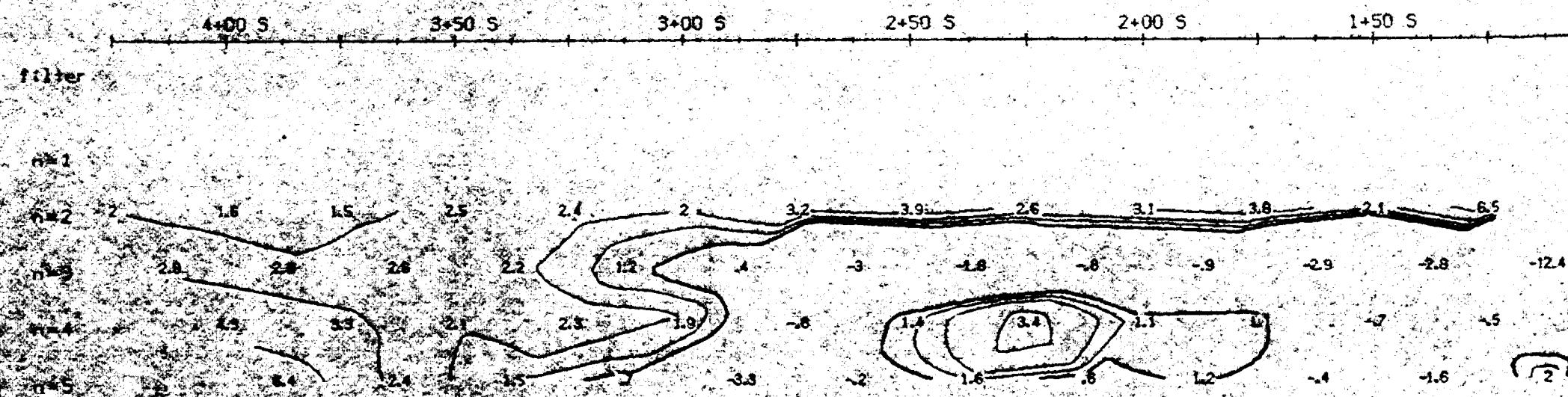
n=2

n=3

n=4

n=5





0+00

INTERPRETATION

+00 5

filter

CHARGEABILITY
(MSEC)

n=1

n=2

n=3

n=4

-3.5 n=5

TOPOGRAPHY

+00 5

filter

RESISTIVITY
(OHM-M)

n=1

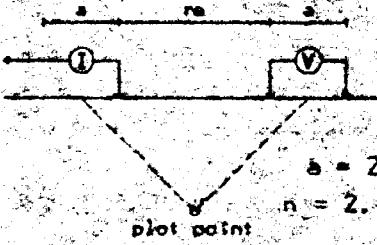
n=2

n=3

85 n=4

85. n=5

Pole-Dipole Array



Filtered Profiles

filter
*
**

Resistivity _____
Chargeability _____
Metal Factor _____

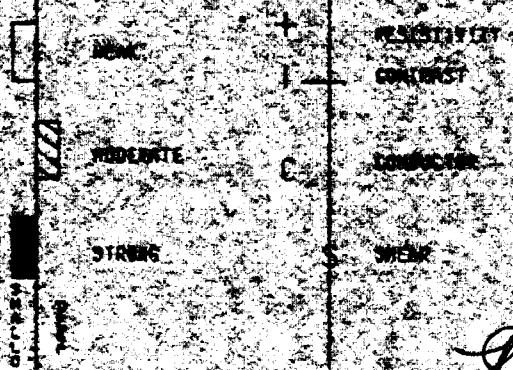
Lager shale
Contours 1, 2.5, 2, 3, 5, 7.5, 10, ...

Instrument: IPX-II

Transmitter: 150 - 3

Operator: M. Wilson

1. MORPHOLOGY



ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.

PELANGIO - BAYRIDGE J.V.

Title Time Domain
INDUCED POLARIZATION SURVEY
Blueberry Island Gold Property
Norwood Two (02)

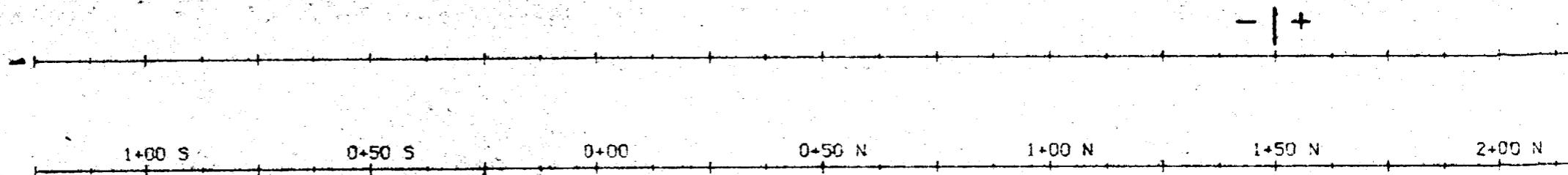
Date Mar. 15, 1989

Scales 1:1251

Interp. by R. L.

100' E-N-S

2. 12547



filter

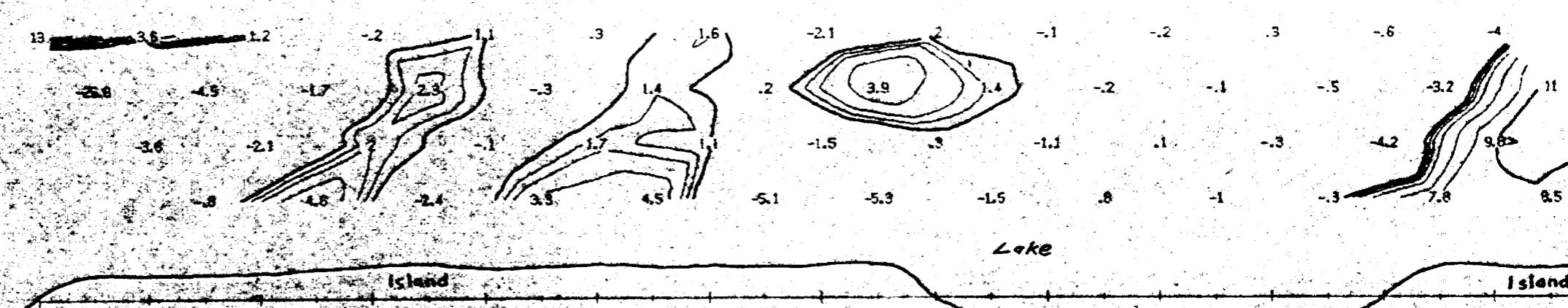
$n=1$

$n=2$

$n=3$

$n=4$

$n=5$



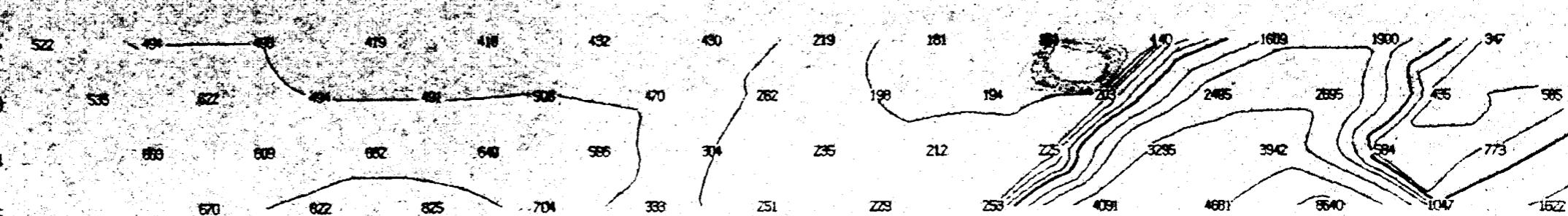
filter

$n=2$

$n=3$

$n=4$

$n=5$



INTERPRETATION

filter

CHARGEABILITY
(msec)

n=1

n=2

n=3

n=4

7.9 n=5

TOPOGRAPHY

filter

RESISTIVITY

(ohm.m)

n=1

n=2

n=3

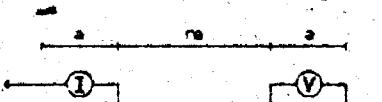
n=4

1307 1982 n=5

2.12547

0+00

Pole-Dipole Array

a = 25 m
n = 2, 3, 4, 5

Filtered Profiles

filter
Resistivity _____
Chargeability _____
Metal Factor _____filter
*
**

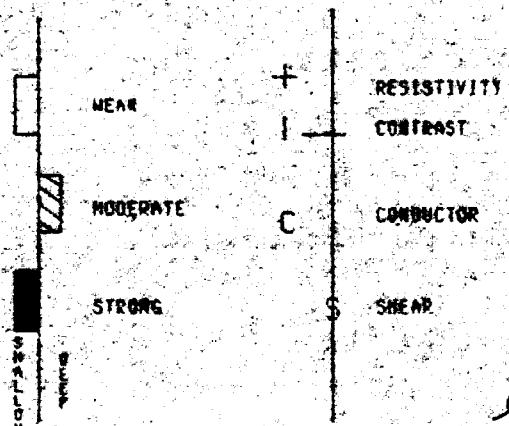
****Logarithmic
Contours .. 1, 1.5, 2, 3, 5, 7.5, 10....

Instrument: IPR-11

Transmitter: TSO - 3

Operator: M. Wilson

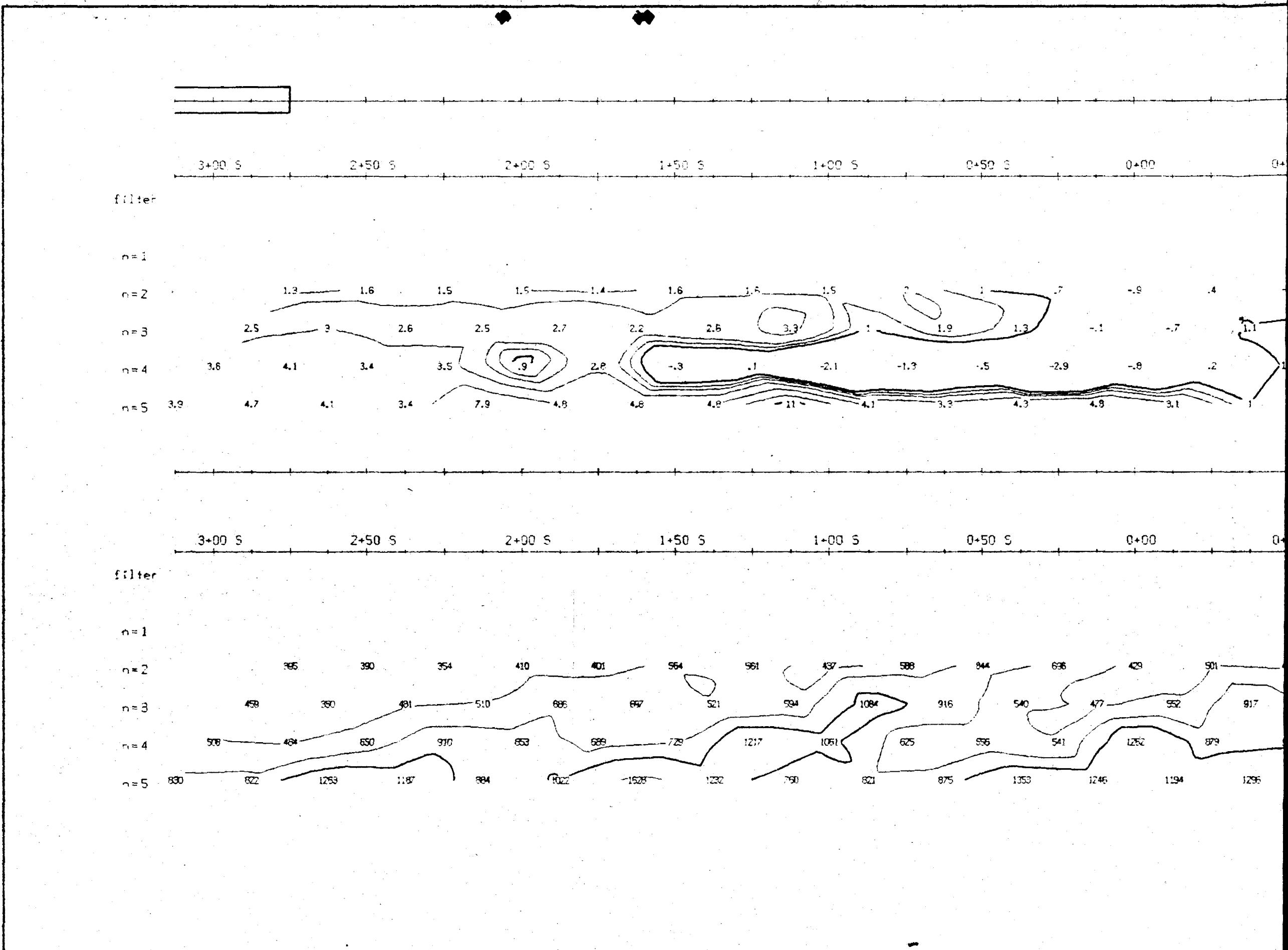
I.P. ANOMALIES

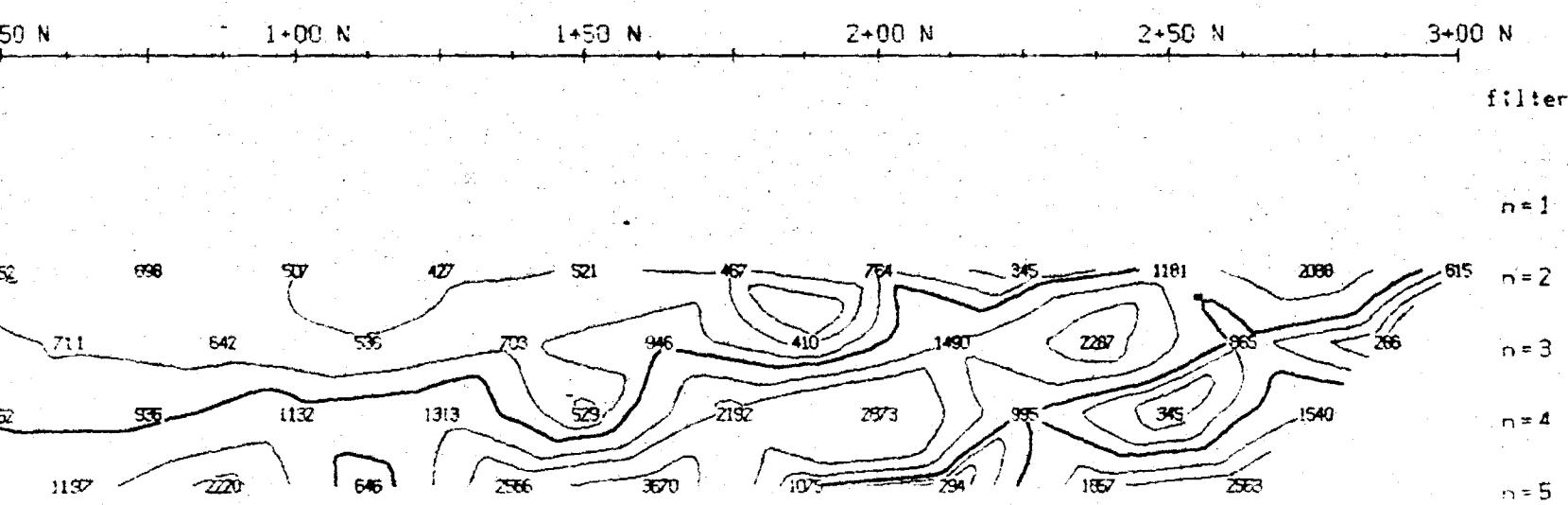
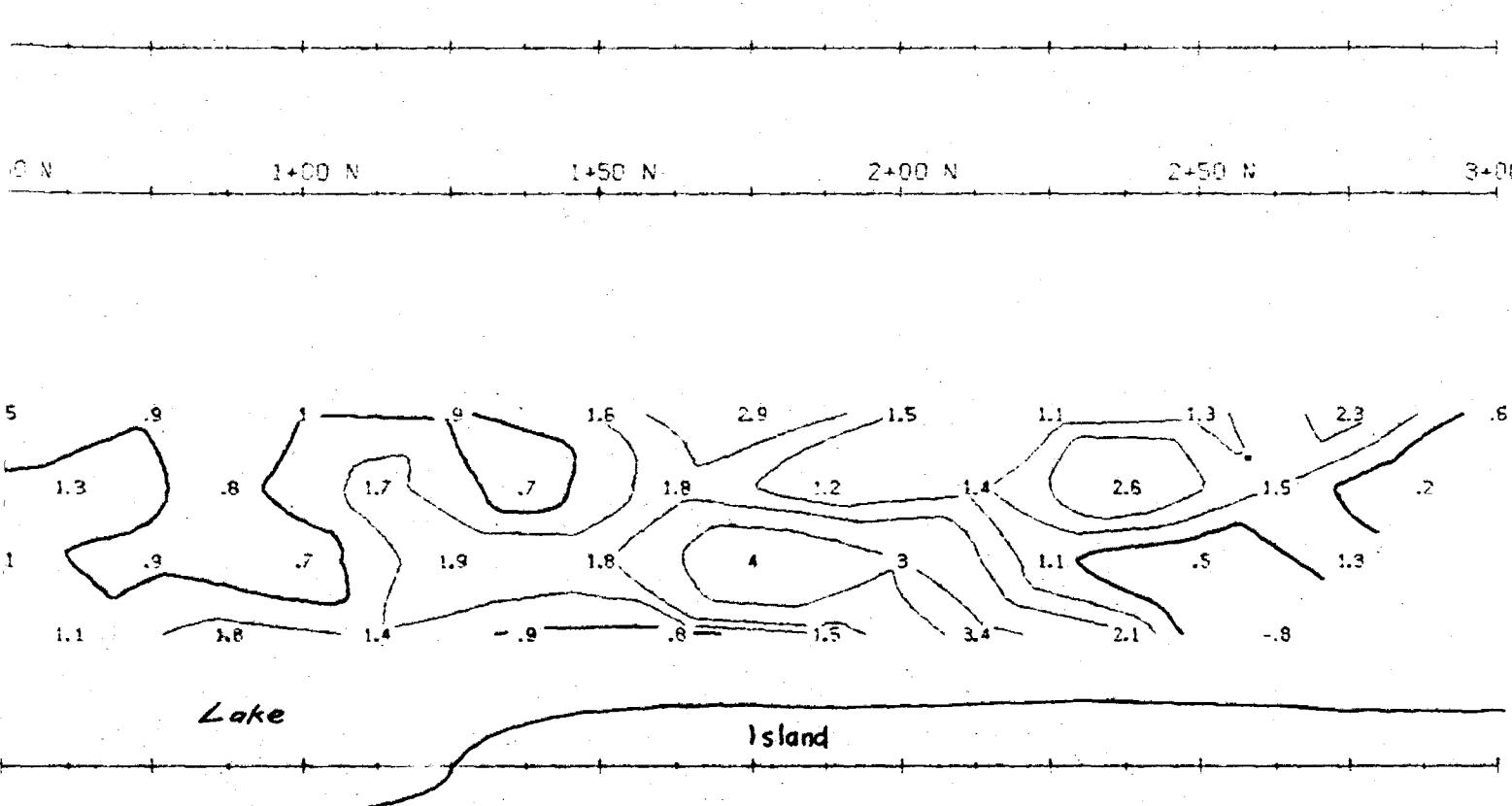
ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.

for PELANGIO - BAYRIDGE J.V.

Title Time Domain
 INDUCED POLARIZATION SURVEY
 Blueberry Island Gold Property
 Horwood Twp. Ont.

Date: Mar. 16, 1982	Scale: 1 : 1250
Interp. by: R. L.	Jub #: M-357





INTERPRETATION

CHARGEABILITY
(msec)

$n = 1$

$n = 2$

$n = 3$

$n = 4$

$n = 5$

TOPOGRAPHY

RESISTIVITY
($\Omega\text{hm-m}$)

$n = 1$

$n = 2$

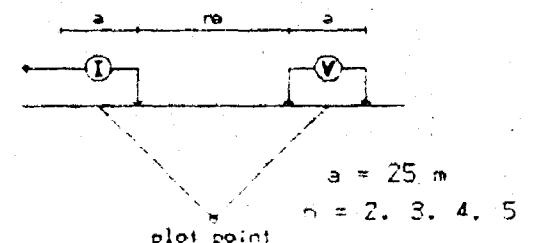
$n = 3$

$n = 4$

$n = 5$

1+00 W

Pole-Dipole Array



Filtered Profiles

Resistivity
Chargeability
Metal Factor

filter
*
**

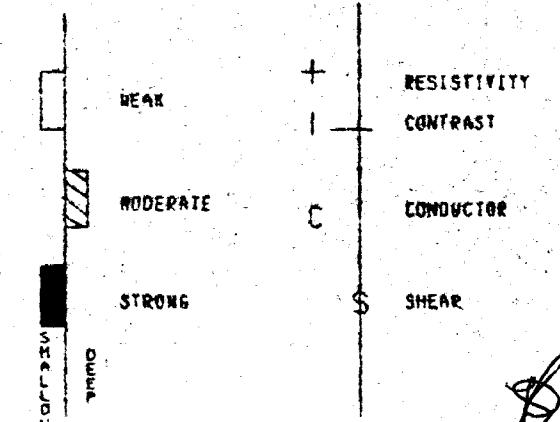
Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: IPR-11

Transmitter: TSQ - 3

Operator: M. Wilson

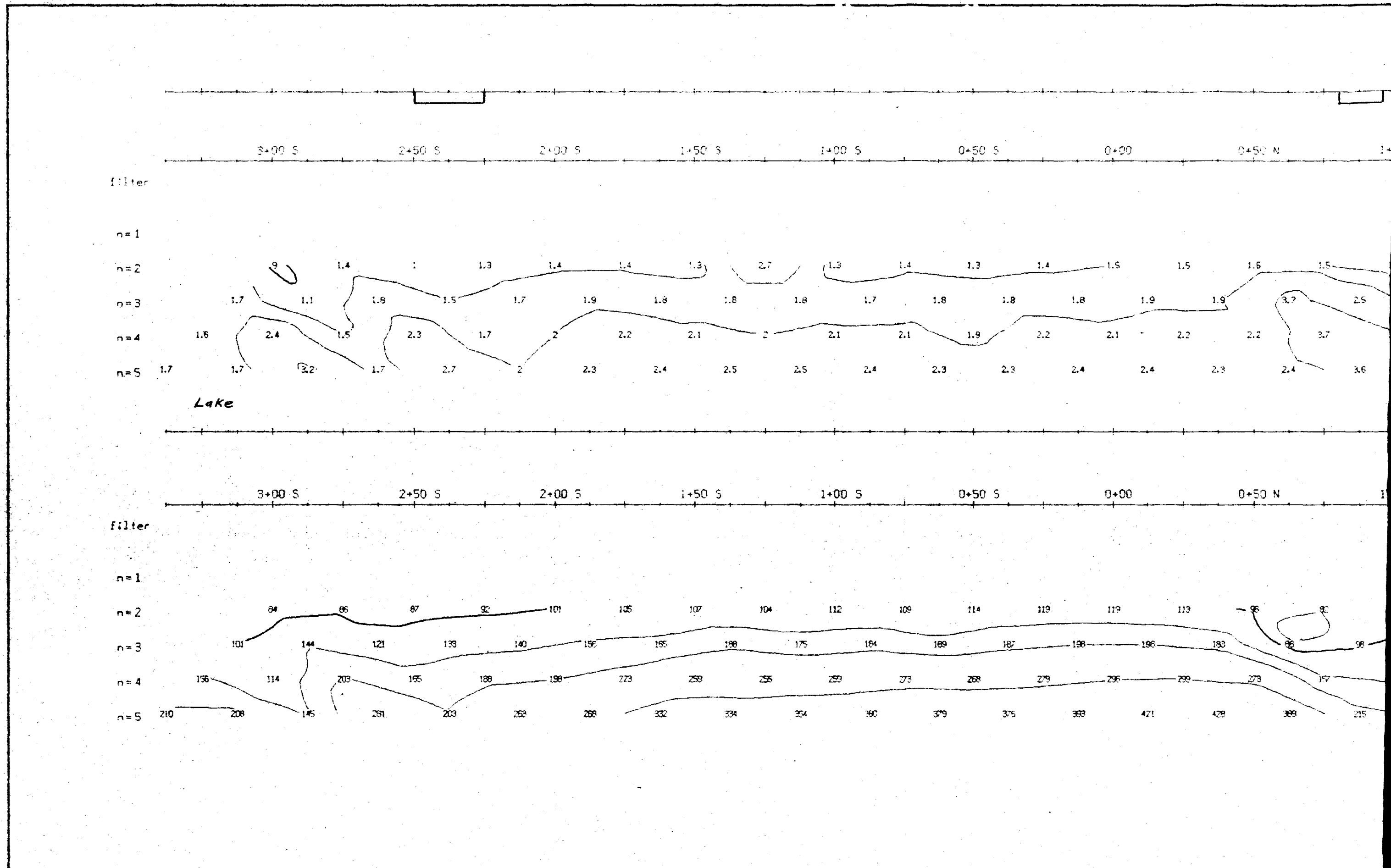
I.P. ANOMALIES

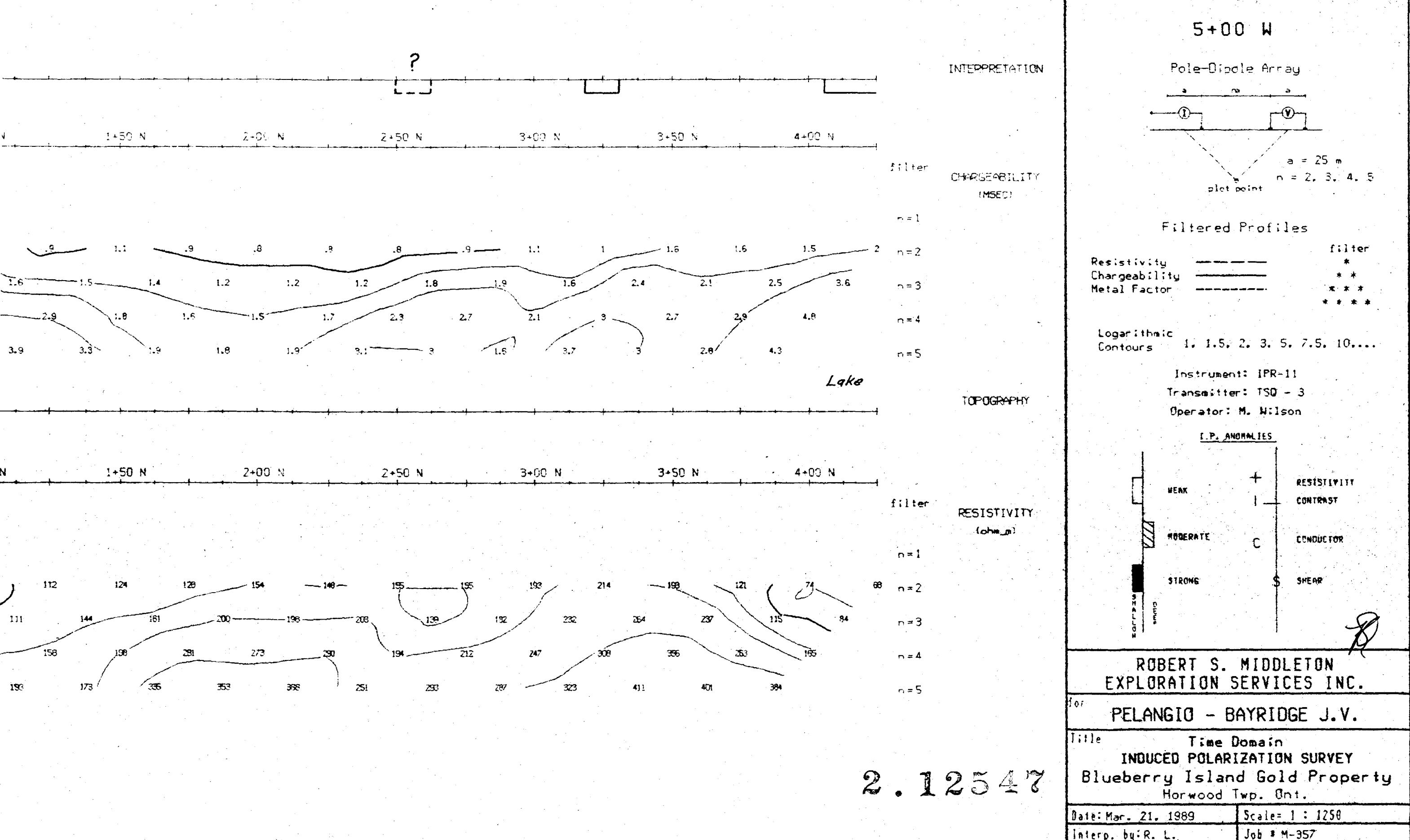


ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.

for PELANGIO - BAYRIDGE J.V.
Title Time Domain
INDUCED POLARIZATION SURVEY
Blueberry Island Gold Property
Horwood Twp. Ont.
Date: Mar. 17, 1989 Scale: 1 : 1250
Interp. by: R. L. Job #: M-357

2.12547





0+50 N

1+00 N

1+50 N

2+00 N

2+50 N

3+00 N

filter

n=1

n=2

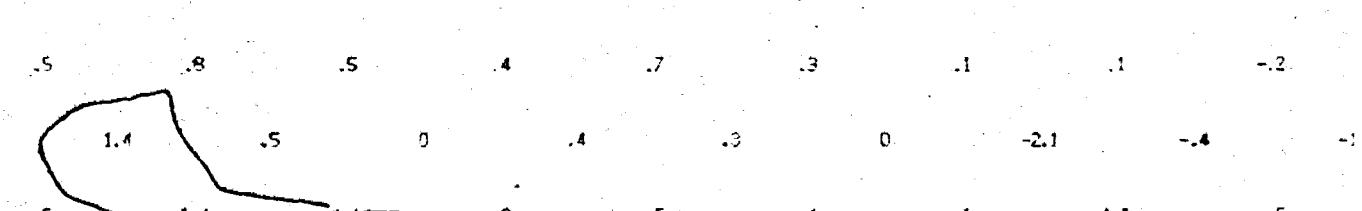
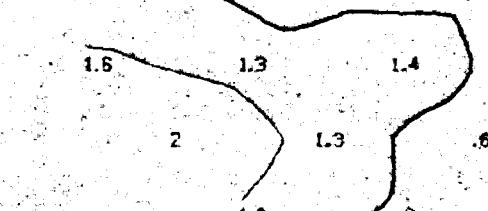
1.2 1.1 .6 .6

.4 .2 .2 .2 .5 -.1 -.1 -.3

n=3

n=4

n=5



0+50 N

1+00 N

1+50 N

2+00 N

2+50 N

3+00 N

filter

n=1

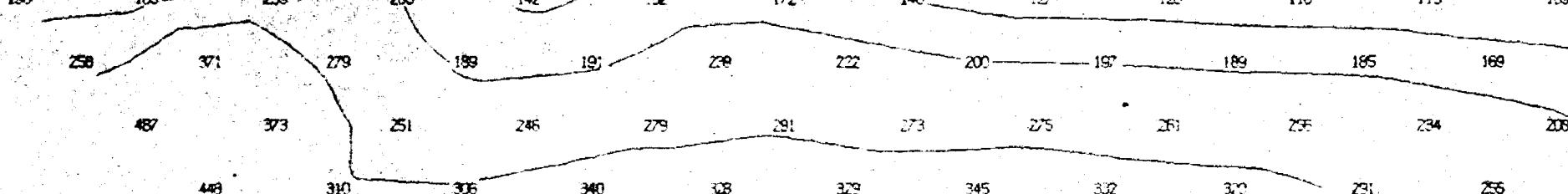
n=2

180 183 259 200 142 152 172 148 127 126 118 115 109

n=3

n=4

n=5



INTERPRETATION

3+50 N

filter

CHARGEABILITY
(MSEC)

n=1

n=2

n=3

-2

n=4

.3 n=5

TOPOGRAPHY

3+50 N

filter

RESISTIVITY
(ohm-m)

n=1

n=2

n=3

173

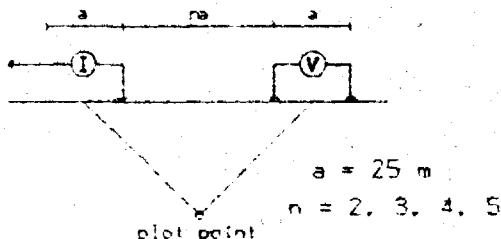
n=4

181 n=5

2.12547

4+00 W

Pole-Dipole Array



Filtered Profiles

Resistivity -----
 Chargeability -----
 Metal Factor -----

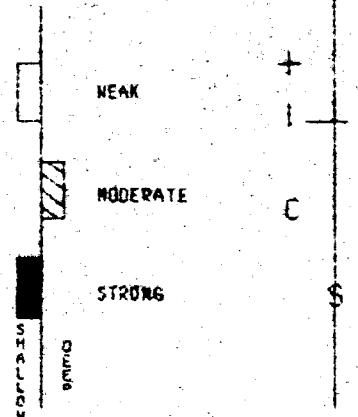
filter
*
**

Logarithmic
Contours 1. 1.5. 2. 3. 5. 7.5. 10....

Instrument: IPR-11

Transmitter: TSO - 3

Operator: M. Wilson

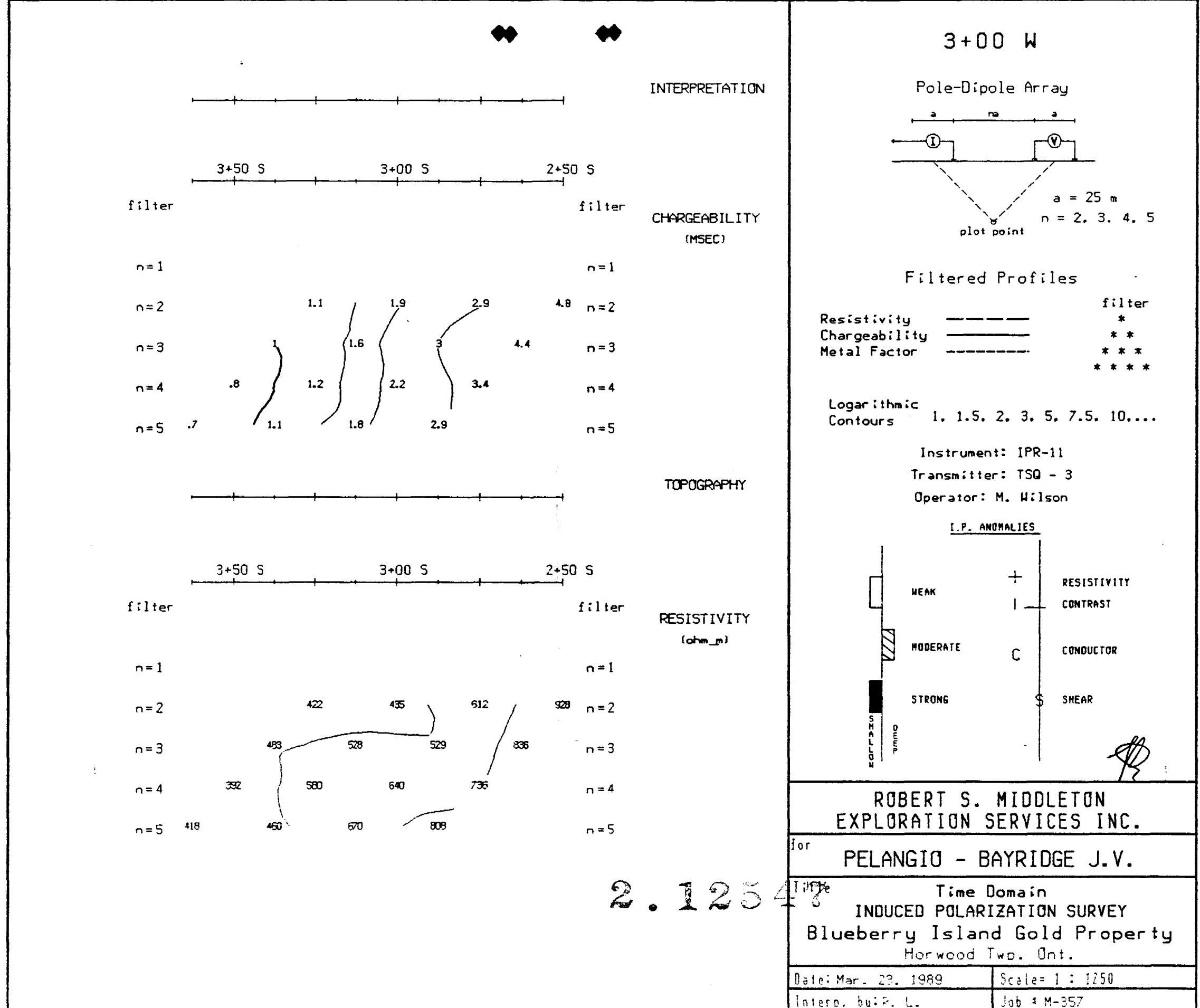
I.P. ANOMALIES

ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.

for PELANGIO - BAYRIDGE J.V.

Title Time Domain
INDUCED POLARIZATION SURVEY
Blueberry Island Gold Property
Horwood Twp. Ont.

Date: Mar. 18, 1989	Scale: 1 : 1250
Interp. by: R. L.	Job #: M-357



R

4+00 S 3+50 S 3+00 S 2+50 S 2+00 S 1+50 S

filter

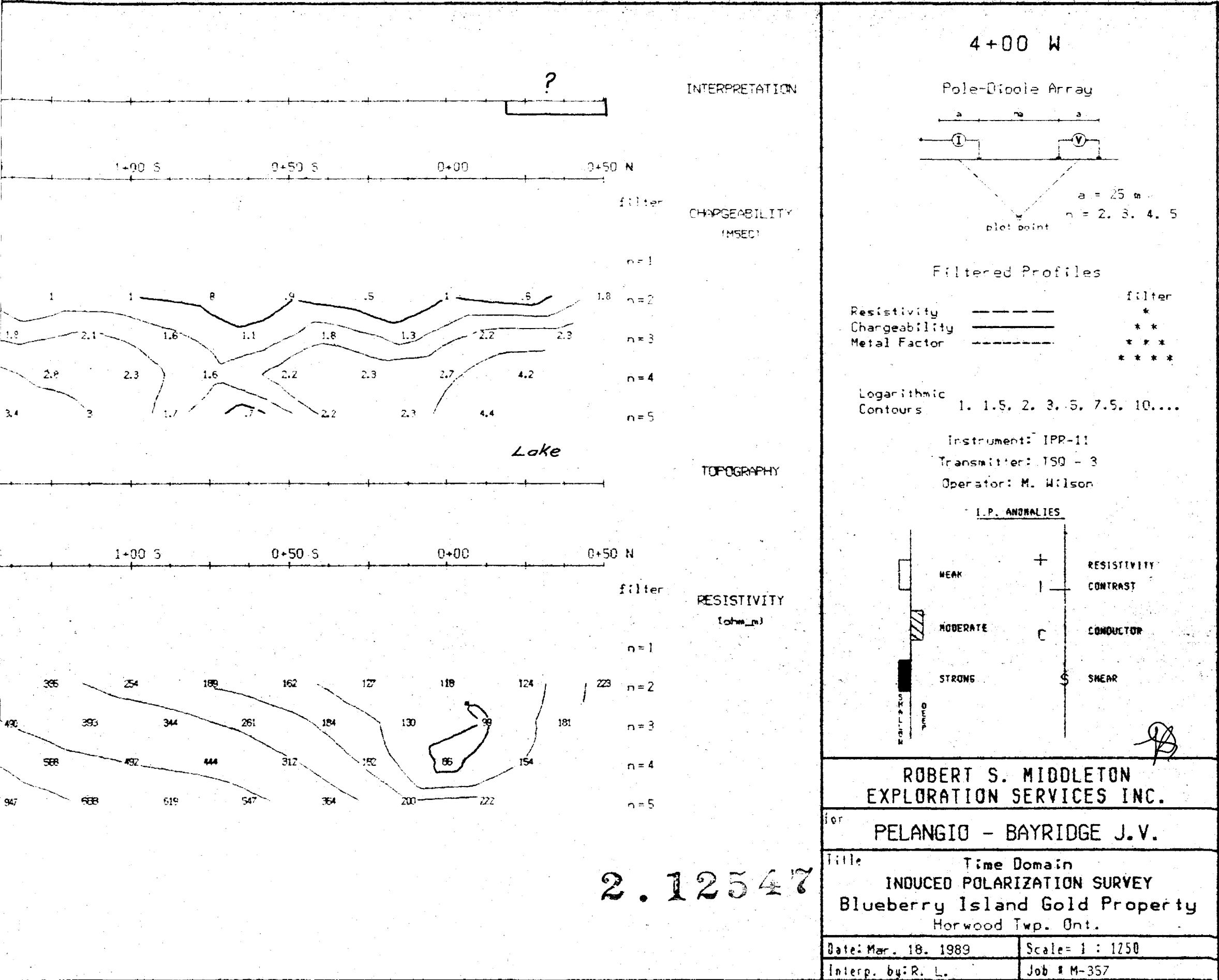
 $n=1$ $n=2$ $n=3$ $n=4$ $n=5$

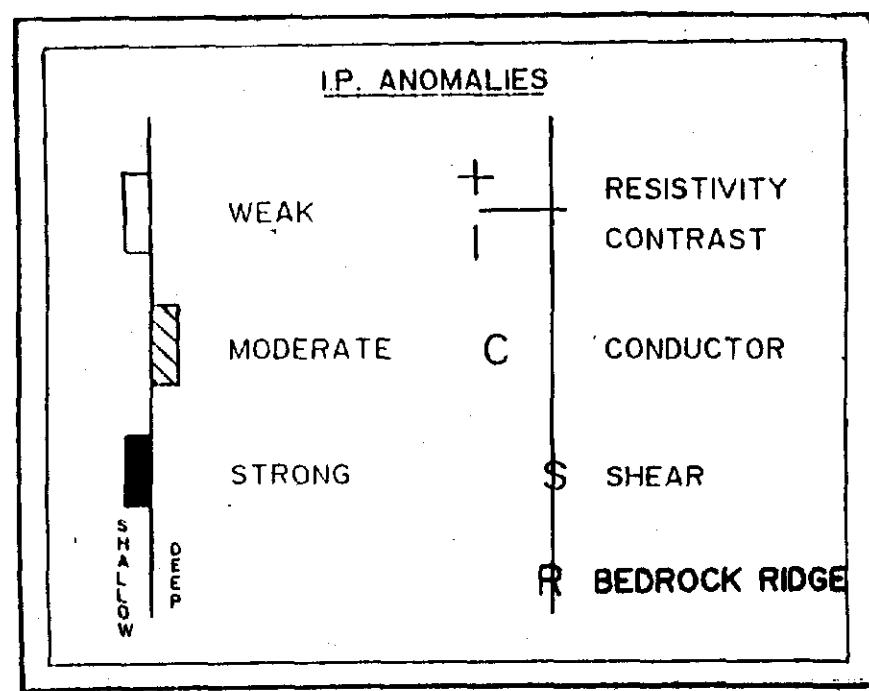
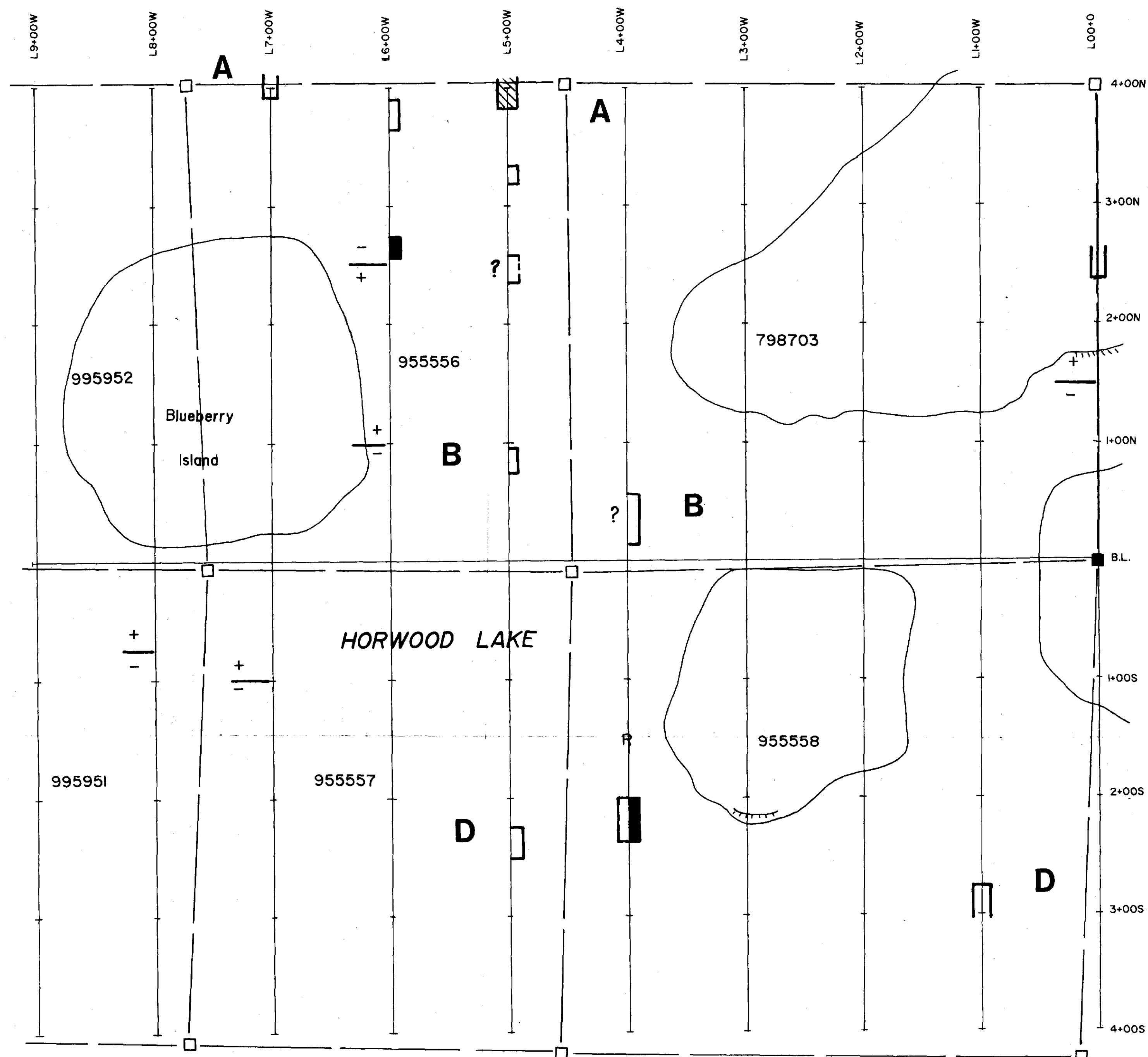
Lake

4+00 S 3+50 S 3+00 S 2+50 S 2+00 S 1+50 S

filter

 $n=1$ $n=2$ $n=3$ $n=4$ $n=5$





- Claim post (assumed)
- Claim post (known)

2.12547

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.			
	for PELANGIO-BAYRIDGE J.V.			
Title				
I.P. SURVEY PRELIMINARY INTERPRETATION BLUEBERRY ISLAND GOLD PROPERTY HORWOOD TWP. ONT.				
Date: March, 89	Scale: 1:2500	N.T.S.:		
Drawn: A.M.	Approved: R.L.	File: M-357		

