

**GÉOLA**  
CONSEIL EN EXPLORATION

**GEOPHYSICAL SURVEYS – IP. & MAG  
PERFORMED for CANADIAN ROYALTIES INC.  
HIGHWAY PROSPECT  
BEATTY TOWNSHIP, Ont.**

**C. Lavoie Eng., Ph.D.      May, 2003**

**03-228**



42A09SW2019 2.25765 BEATTY

**010**



GÉOLA  
CONSEIL EN EXPLORATION

## CONTENTS

INTRODUCTION .....	1
PROPERTY, LOCATION AND ACCESS .....	1
GEOPHYSICAL WORK.....	2
DISCUSSION ON GEOPHYSICAL METHODS.....	2
The induced polarization method.....	2
The magnetic method .....	5
DESCRIPTION AND INTERPRETATION.....	6
The induced polarization survey.....	6
The magnetic survey.....	7
CONCLUSION AND RECOMMENDATIONS.....	8
DESCRIPTION OF ANOMALIES .....	9
STATEMENT FOR ASSESSMENT WORK .....	I
CERTIFICATE.....	III
PSEUDO-SECTIONS.....	at the end of the report
MAPS .....	in rear pockets

## **INTRODUCTION**

Geophysical surveys, including induced polarization, and magnetic surveys, were performed for **CANADIAN ROYALTIES INC.** over a property located in Beatty township, (Matheson area) province of Ontario.

The surveys on this property were an extension of previous induced polarization, V.L.F. and magnetic surveys performed in 1997 for Anglaumaque Explorations Inc. We are referring you to our report of January 29<sup>th</sup>, 1997 wrote by C. Lavoie, project No. 97-896.

The induced polarization was done to detect polarizable horizons which may be associated to economic mineralization. The magnetic survey was done to define the geological structure of the property and to establish correlation with the other types of data.

## **PROPERTY , LOCATION AND ACCESS**

The grid is located 12 km east of the town of Matheson, immediately north of Highway #101. The south boundary of the property coincide to road Highway #101. The surveys were done on the following claims ( $\pm$  226.5 hectares):

### **Beatty township:**

### **Claims**

1200868 and 1200869  
1248830 to 1248836

The property can be easily reached using highway # 101.

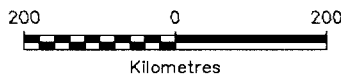
LOCATION MAP



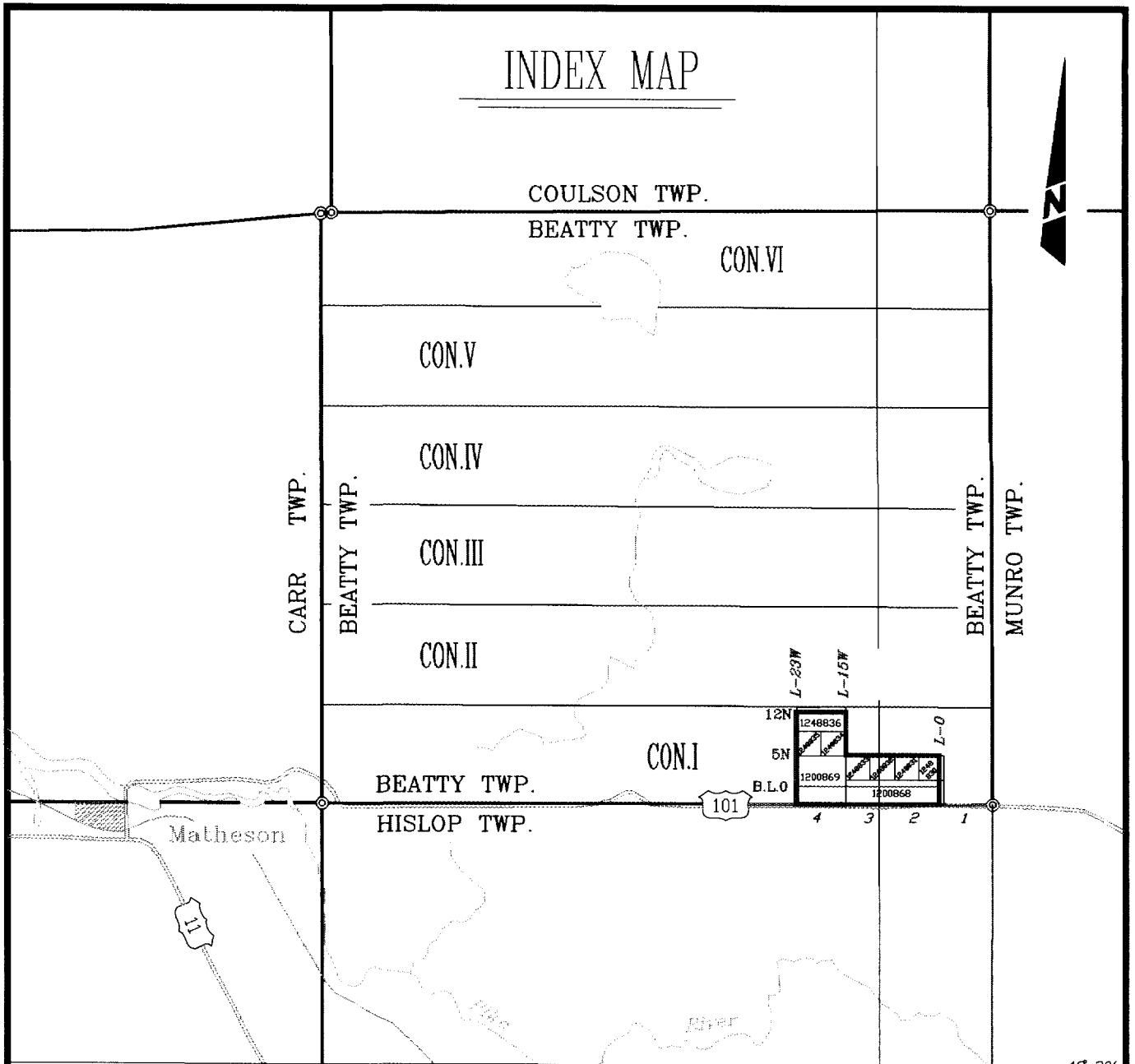
CANADIAN ROYALTIES INC.  
HIGHWAY PROSPECT  
Matheson Area, Ontario

N.T.S. 42A/09

SCALE 1: 10,000,000



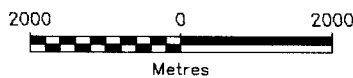
# INDEX MAP



## CANADIAN ROYALTIES INC. HIGHWAY PROSPECT Beatty Twp., Ont.

N.T.S. 42A/09

SCALE 1: 100,000



GEOLA LTD 03-228

## **GEOPHYSICAL WORK**

During the period of May 07<sup>th</sup> to May 27<sup>th</sup> 2003, an I.P. survey (14.0 km) was performed in the Time domain, using the dipole-dipole configuration and the following separations: a = 25 metres and n = 1 to 5. The receiver was an IP-6 (BRGM), and the transmitter was a GDD 1400 (1.4Kw).

During the same period, a magnetic survey (total field and measured vertical gradient; 16.0 km) were done, using a GSM-19G. The magnetic data were corrected for diurnal variations using data from an automatic base station located in the field.

## **DISCUSSION ON THE METHODS**

### **The induced polarization method:**

The induced polarization survey consists in introducing an electric current into the ground in the form of a "square wave", by means of two metallic electrodes. Two other electrodes permits the measurement of the current and of the voltage present in the ground during the transmission. The resistivity of the ground is then calculated with these two parameters while the chargeability is measured by observing the decrease of the voltage after the current flow stops. The chargeability is in millivolts/volt (mV/V) or milliseconds, and the resistivity in ohms-metres ( $\Omega \cdot m$ ).

The induced polarization method allows the detection of massive or disseminated sulphide zones which are not necessarily conductive. The chargeability intensity of an anomaly depends mainly on the total surface of the disseminated sulphide grains, their nature, the geometrical shape and the

depth of the sulphide zone as well as the conductivity and the thickness of the overburden.

That means the intensity of an I.P. anomaly varies with the grain size and theoretically, massive sulphide zones give a lower anomaly in chargeability than the same amount of sulphide disseminated. At the limit, if it is completely massive, we do not have a chargeability anomaly. It is almost impossible to interpret which quantity of sulphide is producing the anomaly. However, from previous data known on the property, we may guess the amount of sulphide.

If a weak anomaly of chargeability coincides to a low resistivity associated to a resistivity gradient, this anomaly may be produced by ionic current. Care should be taken in presence of this phenomenon.

High readings of resistivity normally mean that the bedrock is near the surface. Very often, this is also associated with a higher chargeability reading which is then difficult to say if there is presence of weak disseminated sulphide. High resistivity may also indicate the presence of silicified rocks.

Low readings of resistivity without high chargeability readings normally mean that the current does not reach the bedrock. A greater separation should be used in these areas. However, it may also mean presence of massive sulphide, which may be interpreted by the shape of the anomaly itself.

In other words, an induced polarization survey may sometimes be difficult to interpret (it gives no information about the dip) and it is normally recommended to detail any main

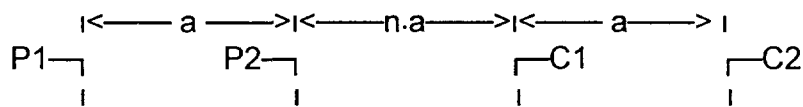
anomalies and to interpret them with respect to the geological, topographic and all other pertinent information before proceeding with the drilling.

The readings of the survey (dipole-dipole) are plotted in form of pseudo-sections. The anomalies are indicated by hatching. The probable location of the polarizable zone is indicated by an axis.

The resistivity was calculated using the following formula:

$$P_a = \pi \cdot n \cdot (n + 1) \cdot (n + 2) \cdot a \cdot V / I \quad \Omega \cdot m$$

Configuration dipole-dipole:



From the pseudo-sections representation of the data, we have combined the five (5) separations as follows:

Separation:

Measures:

n = 1

A.

n = 2

B. C.

n = 3

D. E. F.

n = 4

G. H. I. J.

n = 5

K. L. M. N. O.



Combination:  $\{ A + (B + C)/2 + (D + E + F)/3 + \dots$   
 $+ (G + H + I + J)/4 + (K + L + M + N + O)/5 \} / 5$

The combination of the five (5) separations was calculated for the chargeability and for the resistivity readings. These results were drawn in profile on a separate map.

We also combined the chargeability and the resistivity readings as follows:

Metal factor:  $(\text{Chargeability} \times 1000) / \text{Resistivity}$

This metal factor permits to enhance the anomalies. It was drawn on the pseudo-sections. If strong variations of resistivity is encountered, it is recommended to go back to the initial data for a better interpretation.

### **The magnetic method:**

A concentration of minerals having a different magnetic susceptibility compared to the surrounding rocks, will give rise to variations in the earth's magnetic field. Systematic observation of the earth's total field over the property, allows us to outline zones of different magnetization, which are related to more or less magnetic geological units or concentrations of magnetic minerals. By measuring or calculating the vertical magnetic gradient, the resolution of the survey is increased, thus helping its interpretation. The magnetic field units are " gammas " ( $\gamma$ ) or " nanoTeslas " (nT).  $1 \gamma = 1 \text{ nT}$ .

Minerals having strong magnetic susceptibility are magnetite and pyrrhotite and are usually but not necessarily

associated as primary or accessory minerals in massive sulphide deposits or other possible economic mineralizations. Thus, coincident magnetic and electromagnetic or induced polarization anomalies could be important but are not necessarily significant. The global interpretation of the magnetic survey, consisting in delimitating zones of different magnetic susceptibility, is highly advisable. This interpretation contributes in outlining the major geological units and structures such as faults on the property.

## **DESCRIPTION AND INTERPRETATION**

### **The I.P. survey:**

Gold is the main object of the work done on this property, and such as to locate the weak disseminated mineralization, we have tried to interpret all the weak I.P. distortions.

From the resistivity data, the induced polarization survey was not penetrating very much. It is worst in the eastern part of the grid where we are measuring with the first separation, resistivity as low as 40  $\Omega$ -m. In the western part of line 9+00 W, a better penetration was obtained generally more than 100  $\Omega$ -m. In presence of low resistivity (less than 200  $\Omega$ -m), it is always better to use the pole-dipole configuration.

The surveys on this property were an extension of previous induced polarization, and magnetic surveys performed in 1997 for Anglaumaque Explorations Inc. We are referring you to our report of January 29<sup>th</sup>, 1997 wrote by C. Lavoie.

At that time, we have interpreted twenty-five (25) distortions that were named anomalies. Presently, we have (38) distortions that were named anomalies. All these anomalies have been described on a tabular form annexed at the end of this report.

Five of these anomalies are still classified as first priority anomalies, P-01, P-03, P-04, P-15 and P-21. If these anomalies have not been explained in the past, they should be drilled.

Eight (8) anomalies were classified as second priority anomalies, P-02, P-09, P-13, P-14, P-16, P-31, P-33 and P-37. These are very weak but they seem real. Other geoscientific data are required before deciding to drill them.

The anomalies of third (19) and fourth (6) priorities were located in case they may coincide to known drilling ore zones. They may also help to interpret the general direction of the geological formation.

On the map, we have also located some low resistivity area which may be produced by valley or fracture in the rock. They may also be produced by a shear zone with not enough polarized material.

### **The magnetic survey:**

From the magnetic data, we observe some main magnetic structures in the south-eastern part and in the northern part of the property. These magnetic formations do not seem to respond to the induced polarization survey. The I.P. anomalies are generally located at the geological contact of these formations. The resistivity in the northern part of the property is much more higher than in the southern part. From the resistivity results, it must be possible to explain some I.P. anomaly just by visiting the outcrops which can be located by the resistivity higher than 10,000 ohm.m.

From the magnetic profile, a fault may be present in the area of line 8+50mW station 1+75mS, because we can observe a displacement in the magnetic axe running east-west.

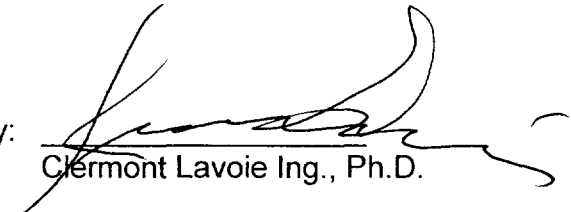
## CONCLUSION AND RECOMMENDATIONS

The geophysical surveys permitted to detect some very good targets. The magnetic survey is not giving us very much more information, except that the induced polarization anomalies are generally located at the geological contacts. The induced polarization has permitted to detect five (5) anomalies, which should normally be explained by drilling if they have not been explained in the past (anomalies P-01, P-03, P-04, P-15 and P-21).

Eight anomalies of second priority (anomalies P-02, P-09, P-13, P-14, P-16, P-31, P-33 and P-37) should normally be valorized with other geoscientific data before drilling them, such as knowing some ore zones, the geological formations present on this property or on the extension of it, etc. The second priority anomalies are weak but when we look for gold occurrences, the gold may be associated only with weak polarized disseminated mineralization.

Respectfully submitted,

By:

  
Clermont Lavoie Ing., Ph.D.

DESCRIPTION OF INDUCED POLARIZATION ANOMALIES

Project: Highway 03-228

Township: Beatty Township, Ont.

MAP NO.	ANOMALY	LINE	STATION	LENGTH (m)	CHARGEABILITY	RESISTIVITY	ASSOCIATION	REMARKS AND RECOMMENDATIONS	P r i o
					Anomaly Base	Anomaly Base			
	P-01	20+00mW	4+31mN	>300	14/0.6	396/>500		Well defined. To be explained.	1
	P-02	18+00mW	4+87mN	>100	3.9/1	561/	Possible geological contact.	Possible weak disseminated mineralization. Seems real.	2
	P-03	18+00mW	3+84mN	>100	5.4/1	409/		Weak, but well defined. Possible extension of ano P-01. To be explained.	1
	P-04	15+00mW	3+28mN	>200	5.7/1	388/grad.	Poss. geological contact.	Possible extension of ano. P-31. Well defined. To be explained.	1
	P-05	21+00mW	2+53mN	----	1.1/0.6	119/stable.		One line only. Possible very weak disseminated mineralization.	3
	P-06	20+00mW	1+06mN	>100	1.8/0.5	120/>150	Low resistivity.	Possible weak diss. mineralization.	3
	P-07	21+00mW	0+46mN	----	1.1/0.6	180/grad.	Possible contact.	Poss. extension of ano. # P-08. Very weak and doubtful.	4
	P-08	18+00mW	0+16mN	>300	2.8/1.6	267/stable		Very weak. Not well defined.	4
	P-09	20+00mW	1+34mS	>300	3.0/1	576/<300	High resistivity. Poss. siliceous rock.	Weak, but possible weak diss. mineralization in siliceous rock.	2
	P-10	22+00mW	1+05mS	>50	1.2/0.3	310/grad.	Possible contact.	Not well defined. Possible weak diss. mineralization.	4

CHARGEABILITY: Chargeability in mV/V;

RESISTIVITY: Resistivity in ohms-metres;

Base: Approximate base level near the anomaly;

Prio: Priority;

1 nT = 1 gamma.

DESCRIPTION OF INDUCED POLARIZATION ANOMALIES

Project: Highway 03-228

Township: Beatty Township, Ont.

MAP NO.	ANOMALY	LINE	STATION	LENGTH (m)	CHARGEABILITY	RESISTIVITY	ASSOCIATION	REMARKS AND RECOMMENDATIONS	P r i o
					Anomaly Base	Anomaly Base			
	P-11	20+00mW	2+52mS	----	1.1/0.6	171/grad.		Not well defined. Poss. weak diss. mineralization.	4
	P-12	19+00mW	1+16mS	>50	1.8/0.7	450/grad.	Possible contact.	Poss. weak diss. mineralization.	3
	P-13	15+50mW	1+82mS	>300	3.2/1.5	429/grad.	Possible contact or siliceous rock.	Weak, but seems real. May be explained.	2
	P-14	15+00mW	0+24mN	>300?	3.3/1	372/	Possible siliceous rock. East extension not sure.	Weak, but seems real. May be the extension of ano. # P-20	2
	P-15	13+50mW	0+45mS	>1507	3.8/1	656/stable	High resistivity. Siliceous rock.	Poss. extension of ano. P-20. Should be explained.	1
	P-16	14+00mW	2+25mS	>100	2.6/1.6	402/	200nT/	Weak, but seems real.	2
	P-17	9+00mW	1+40mS	>150?	0.9/0.3	106/>200	With a low resistivity.	Not well defined. Very weak. West extension not sure.	3
	P-18	10+00mW	4+10mN	----	7.6/<0.5	835/>3000	A weak magnetic high of 15nT is possible.	Seems real. Extension not sure.	3
	P-19	10+00mW	0+74mS	----	1.6/<0.6	233/>300		Extension not sure. Higher values at surface only.	3
	P-20	10+00mW	1+27mS	?	0.9/0.6	142/	With low resistivity.	Poss. extension of Anoo. P-14 or P-15.	4

CHARGEABILITY: Chargeability in mV/V;

RESISTIVITY: Resistivity in ohms-metres;

Base: Approximate base level near the anomaly;

Prio: Priority;

1 nT = 1 gamma.

DESCRIPTION OF INDUCED POLARIZATION ANOMALIES

Project: Highway 03-228

Township: Beatty Township, Ont.

MAP NO.	ANOMALY	LINE	STATION	LENGTH (m)	CHARGEABILITY <u>Anomaly</u> Base	RESISTIVITY <u>Anomaly</u> Base	ASSOCIATION	REMARKS AND RECOMMENDATIONS	P r i o
	P-21	11+00mW	0+88mN	>400	11/1.0	741	10nT Possible siliceous rock.	Should be explained.	1
	P-22	9+00mW	2+46mS	>2007	1.0/0.5	128/		Very weak. Poss. weak diss. mineralization.	3
	P-23	3+00mW	1+03mN	---	0.6/0.4	59/stable.		Very weak. Poor penetration.	4
	P-24	0+00mE	0+25mS	400	1.1/0.6	82/stable		Weak. Not well defined.	3
	P-25	0+00mE	1+50mS	>100?	1.3/0.5	88/>100		Weak. Not well defined.	3
	P-26	0+00mE	2+24mN	>200	1.4/<0.6	65/stable	From the magnetic data. Poss. geological contact.	Very weak.	3
	P-27	0+00mE	3+10mN	>100	0.7/<0.6	45/stable	Locate south of a high magnetic of 1000nT.	Very weak, doubtful.	3
	P-28	0+00mE	4+75mN	----	1.0/<0.6	44/stable.		North-East limit of the survey. Very weak, doubtful.	3
	P-29	2+00mW	4+48mN	----	80./0.6	56/		Not very well define. North-East limit of the survey.	3
	P-30	7+00mW	1+90mN	----	3.2/>0.6	9.9/>200		Poss. extension of ano. P-21 or P-31. Isolated reading, doubtful.	3

CHARGEABILITY: Chargeability in mV/V;

RESISTIVITY: Resistivity in ohms-metres;

Base: Approximate base level near the anomaly;

Prio: Priority;

1 nT = 1 gamma.

DESCRIPTION OF INDUCED POLARIZATION ANOMALIES

Project: Highway 03-228

Township: Beatty Township, Ont.

MAP NO.	ANOMALY	LINE	STATION	LENGTH (m)	CHARGEABILITY	RESISTIVITY	ASSOCIATION	REMARKS AND RECOMMENDATIONS	P r i o
					Anomaly Base	Anomaly Base			
	P-31	12+00mW	2+90mN	>400?	4.5/<3	407/grad.	Possible extension of ano. P-04.	A visit of the outcrop on line 9 and 10+00mW is required to explained it.	2
	P-32	12+00mW	2+28mN	----	4.2/<3	558/>1000		Extension not sure.	3
	P-33	17+00mW	5+70mN	>300	4.0/<2.0	771/stable	No magnetic association.	Possible extension of ano. # P-31.	2
	P-34	15+00mW	8+00mN	>400	30/<5	18K/	High resistivity.	See the outcrop on line 15+00mW. Not very well defined.	3
	P-35	15+00mW	10+00mN	>500	9.9/<5	1162/grad.	No magnetic association.	May be real, Better going east. Not well defined.	3
	P-36	16+00mW	10+85mN	----	6.3/<3	1676/grad.	No magnetic association.	Detect on one line only. Not well defined.	3
	P-37	21+00mW	5+25mN	>200	8.0/<2	2172/grad.	No magnetic association.	A visit of the south limit of the outcrop is required.	2
	P-38	21+00mW	6+07mN	>100?	24/<7	5629/	No magnetic association.	Not well defined, doubtful.	3

CHARGEABILITY: Chargeability in mV/V;

RESISTIVITY: Resistivity in ohms-metres;

Base: Approximate base level near the anomaly;

Prio: Priority;

1 nT = 1 gamma.





GÉOLA  
CONSEIL EN EXPLORATION

## **STATEMENT FOR ASSESSMENT WORK**

I, the undersigned, Clermont Lavoie, for **Géola Limitée**, certify to the following:

During the period of May 07<sup>th</sup> to May 27<sup>th</sup> 2003, an I.P. survey (14.0 km) was performed in the Time domain, using the dipole-dipole configuration and the following separations:  $a = 25$  metres and  $n = 1$  to 5. The receiver was an IP-6 (BRGM), and the transmitter was a GDD 1400.

During the same period, a magnetic survey (total field and measured vertical gradient; 16.0 km) were done, using a GSM-19G. The magnetic data were corrected for diurnal variations using data from an automatic base station located in the field.

The grid is located 12 km east of the town of Matheson, immediately north of Highway #101. The south boundary of the property coincide to road Highway #101. The surveys were done on the following claims ( $\pm 226.5$  hectares):

**Beatty township:**

**Claims**

1200868 and 1200869  
1248830 to 1248836

The property can be easily reached using highway # 101.

**Description of the I.P. method:**

Transmitter: Gdd 1400; (1.4Kw)  
Receiver: BRGM IP-6;  
Configuration: Dipole-dipole;  
Separation: a = 25 metres, n = 1 to 5;  
Interval: 25 metres;  
Parameters: Resistivity and chargeability;  
Cycle: Time domain: 2 sec  $\pm$  On, 2 sec OFF;  
Integration: start: 0,16 sec,  
stop: 1,74 sec.

**Description of the magnetic method:**

Instrument: GSM-19  
Parameters: Total field and measured vertical gradient;  
Precision:  $\pm$  1 nT;  
Interval: 12,5 metres.

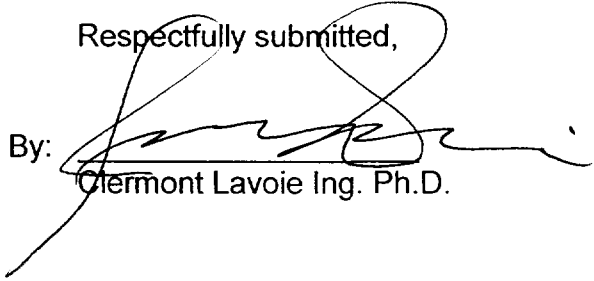
**Operators:**

(18 jrs) Michel Crépeau (5 jrs) Sylvain Sauvageau  
42 Chemin Gagnon 5020 3<sup>e</sup> Ave  
St-Mathieu d'Harricana, Qc Val d'Or, Qc

(5 jrs) Raynald Poirier  
181 Croinor  
Senneterre, Qc

Respectfully submitted,

By:

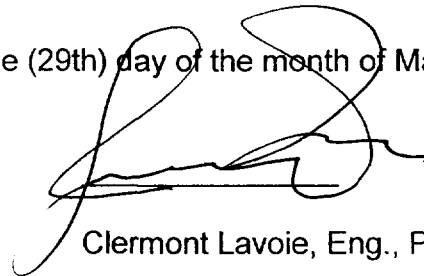
  
Clermont Lavoie Ing. Ph.D.



## CERTIFICATE

1. I, the undersigned, Clermont Lavoie, residing at 1148 Bérard Avenue, Val d'Or, Quebec, graduated with a B.Sc.A. degree in Geology from Ecole Polytechnique in 1965. I obtained an M.Sc.A. degree in Geophysics from Ecole Polytechnique in 1968 and received a Ph.D. in Geophysics from McGill University in 1972.
2. I am a member of the Order of Engineers of Quebec, the Quebec Prospectors Association.
3. I have no direct or indirect interests in the mining claims owned by **CANADIAN ROYALTIES INC.** nor in the securities of this company and I have no intention of receiving such interests.
4. The interpretation and recommendations described in this report are based partly on a personal and technical experience in this district of Quebec.
5. I authorise the above-mentioned company to use this report for any legal and/or official purposes.

Signed in Val d'Or, this twenty nine (29th) day of the month of May two thousand three (2003).



Clermont Lavoie, Eng., Ph.D.



Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines



Date: 2003-JUN-06

GEOSCIENCE ASSESSMENT OFFICE  
933 RAMSEY LAKE ROAD, 6th FLOOR  
SUDBURY, ONTARIO  
P3E 6B5

CANADIAN ROYALTIES INC.  
152 CHEMIN DE LA MINE ECOLE  
VAL D'OR, QUEBEC  
J9P 7B6 CANADA

Tel: (888) 415-9845  
Fax:(877) 670-1555

**Submission Number:** 2.25765  
**Transaction Number(s):** W0380.00957

Dear Sir or Madam

**Subject: Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact STEVEN BENETEAU by email at [steve.beneteau@ndm.gov.on.ca](mailto:steve.beneteau@ndm.gov.on.ca) or by phone at (705) 670-5855.

Yours Sincerely,

A handwritten signature in black ink, appearing to read "Ron Gashinski".

Ron Gashinski  
Senior Manager, Mining Lands Section

**Cc:** Resident Geologist

Canadian Royalties Inc.  
(Claim Holder)

Langis Plante  
(Agent)

Assessment File Library

Canadian Royalties Inc.  
(Assessment Office)



42A09SW2019 2.25765 BEATTY

200

ONTARIO CANADA

MINISTRY OF NORTHERN DEVELOPMENT AND MINES  
PROVINCIAL MINING RECORDERS' OFFICE

Mining Land Tenure Map

Date / Time of Issue: Fri Jun 06 11:31:44 EDT 2003

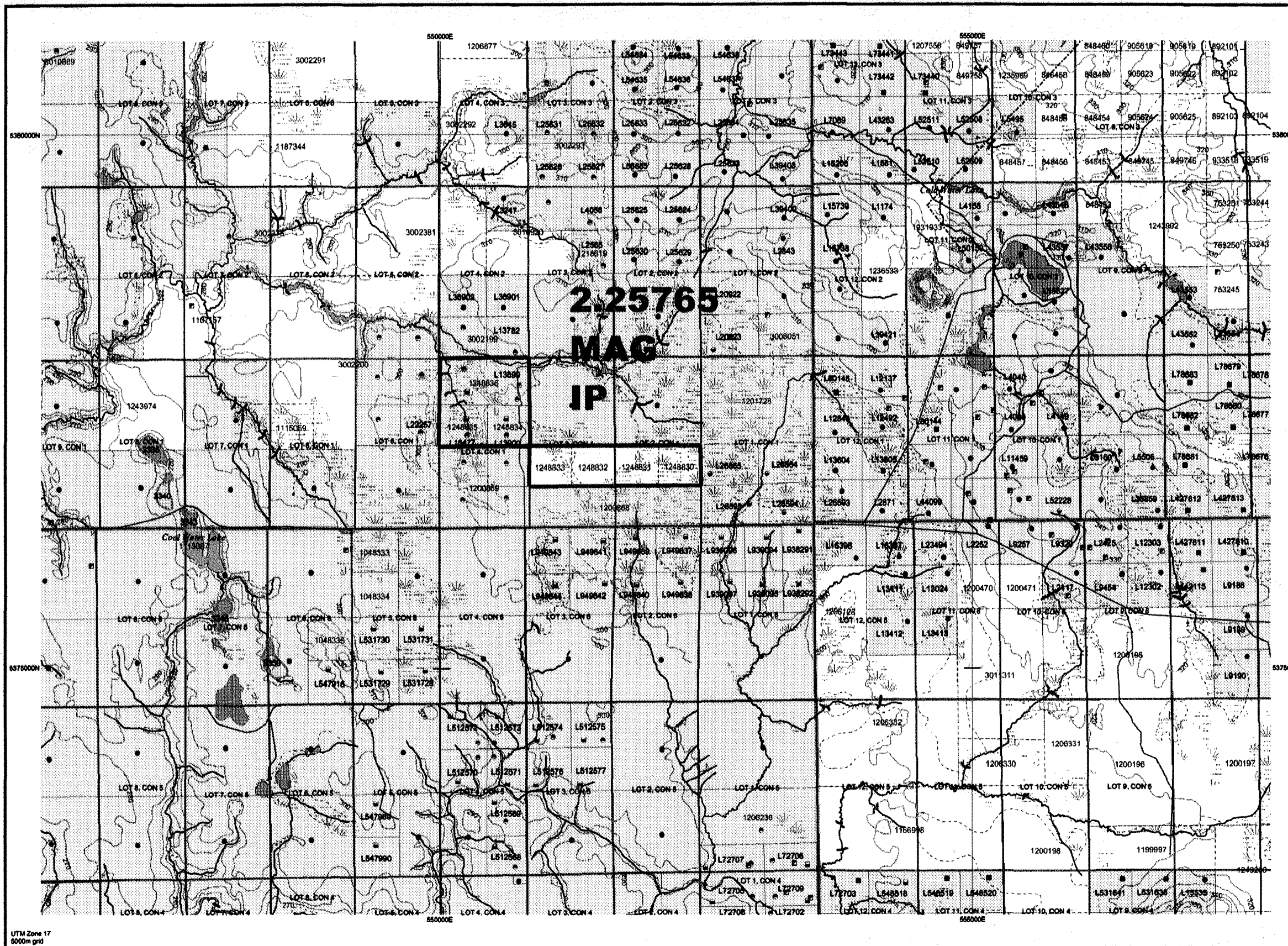
TOWNSHIP / AREA  
BEATTY

PLAN  
M-0324

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division  
Land Titles/Registry Division  
Ministry of Natural Resources District

Larder Lake  
COCHRANE  
KIRKLAND LAKE

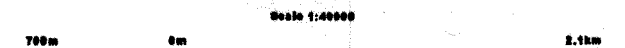
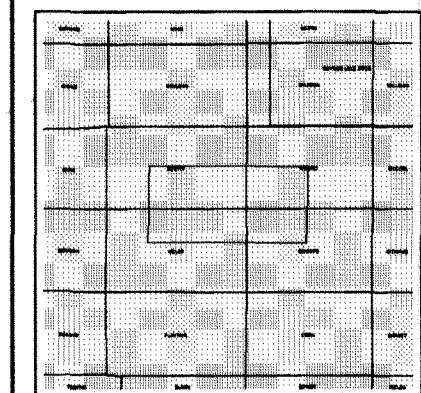


TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pt & Pie
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

- Freehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Licence of Occupation**
  - Uses Not Specified
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
  - Land Use Permit
  - Order In Council (Not open for staking)
  - Water Power Lease Agreement
  - Mining Claim
  - Fled Only Mining Claims
- LAND TENURE WITHDRAWALS**
  - Areas Withdrawn from Disposition
  - Mining Acts Withdrawal Types**
    - Surface And Mining Rights Withdrawn
    - Surface Rights Only Withdrawn
    - Mining Rights Only Withdrawn
  - Order In Council Withdrawal Types**
    - Surface And Mining Rights Withdrawn
    - Surface Rights Only Withdrawn
    - Mining Rights Only Withdrawn
- IMPORTANT NOTICE**



LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
3265	Wam	Jan 1, 2001	QUARRY PERMIT
3287	Wam	Jan 1, 2001	400 FT SURFACE RIGHTS RESERVATION ALONG THE SHORES (
3301	Wam	Jan 1, 2001	400 FT SURFACE RIGHTS RESERVATION ALONG THE SHORES (
3335	Wam	Jan 1, 2001	NOT OPEN TO STAKING
3340	Wam	Jan 1, 2001	NOT OPEN TO STAKING
3343	Wam	Jan 1, 2001	W 25/83 - LOTS 7 & 8 CON 1 IN BEATTY TWP THE BED OF FROOM
3346	Wam	Jan 1, 2001	NOT OPEN TO STAKING
3350	Wam	Jan 1, 2001	NOT OPEN TO STAKING
3394	Wam	Jan 1, 2001	400 FT SURFACE RIGHTS RESERVATION AROUND ALL LAKES &
W-L-C1611	Wam	Aug 29, 2002	<a href="http://www.mndm.gov.on.ca/MNDMMINESLANDS/ivleg/bi
W-L-F1611	Wam	Sep 5, 2002	<a href="http://www.mndm.gov.on.ca/MNDMMINESLANDS/ivleg/bi
W. 15/83	Ws	Mar 21, 1963	SURFACE RIGHTS WITHDRAWN FROM STAKING, SECTION 1686:

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

General Information and Limitations

Contact Information:  
Provincial Mining Recorders' Office  
Wilket Green Miller Centre 933 Ramsey Lake Road  
Sudbury ON P3E 6B5  
Home Page: www.mndm.gov.on.ca/MNDMMINESLANDS/mimppgpe.htm

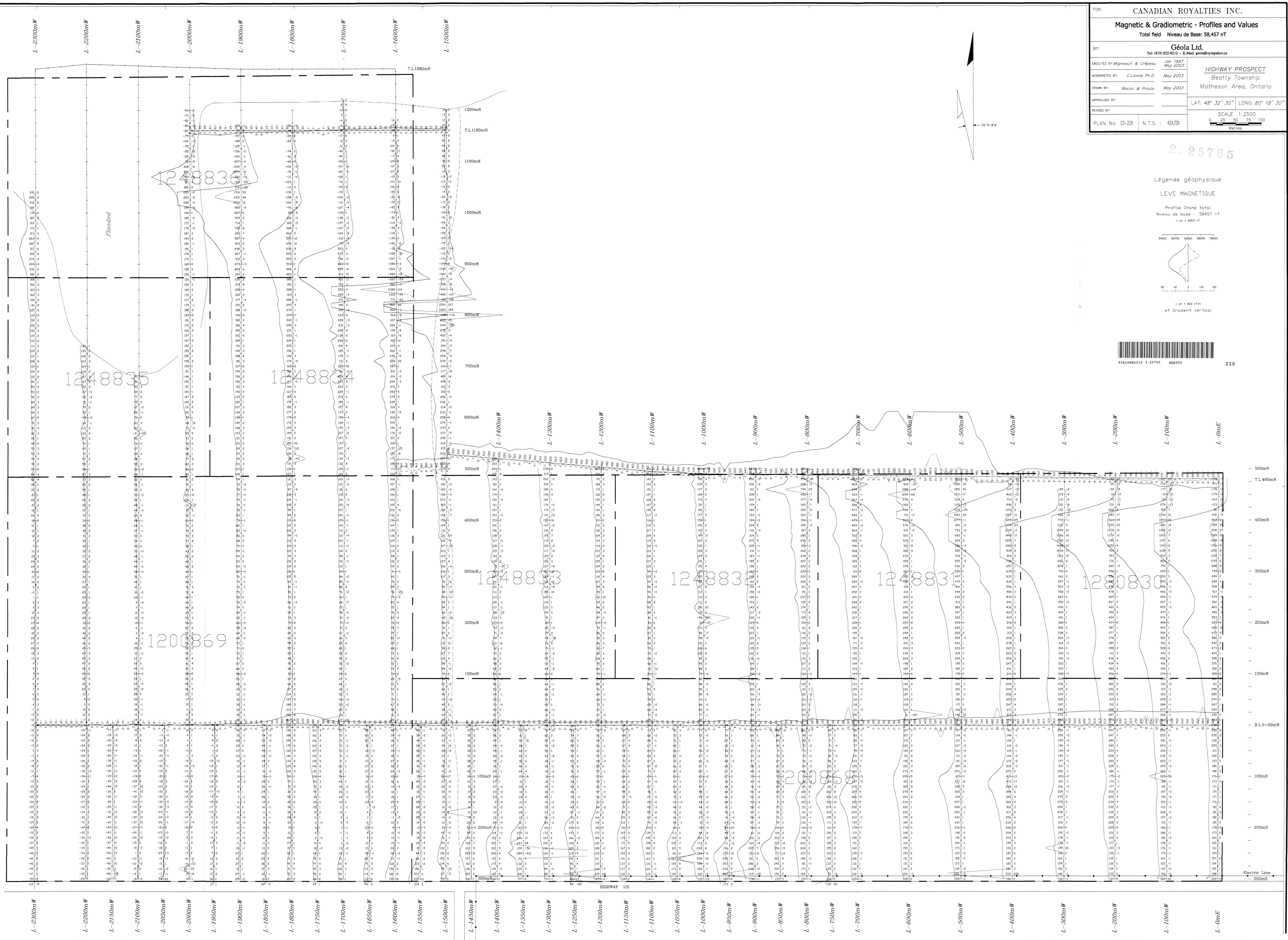
Toll Free  
Tel: 1 (888) 415-8845 ext 5788  
Fax: 1 (877) 670-1444

Map Datum: NAD 83  
Projection: UTM (6 degree)  
Topographic Data Source: Land Information Ontario  
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

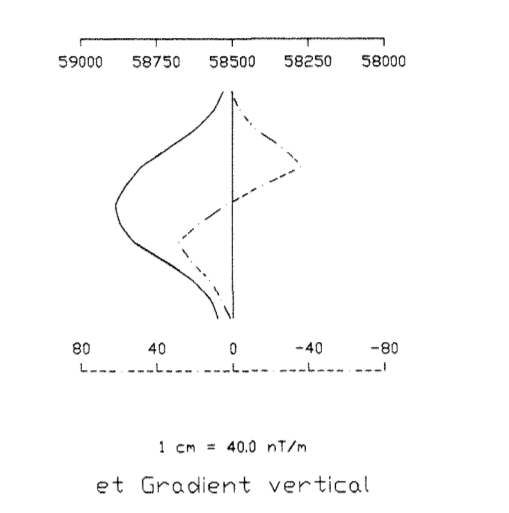




Légende géophysique

LEVE MAGNETIQUE

Profil: Champ total  
 Niveau de base: 58457 nT  
 1 cm = 250 m





FOR: CANADIAN ROYALTIES INC.  
 SURVEY: Magnetic ground survey – Contour  
 Total Field Base 58457 nT

BY: Geola Ltd.  
 Tel: (819) 825-8212 - E-Mail: geola@sympatico.ca

EXECUTED BY: Mignault & Crepeau  
 Jan 1997  
 May 2003

INTERPRETED BY: C. Lavoie Ph.D.  
 May 2003

DRAWN BY: Bacon & Proulx  
 May 2003

APPROVED BY:

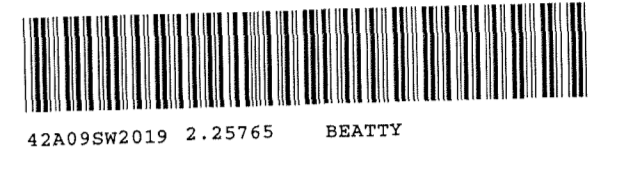
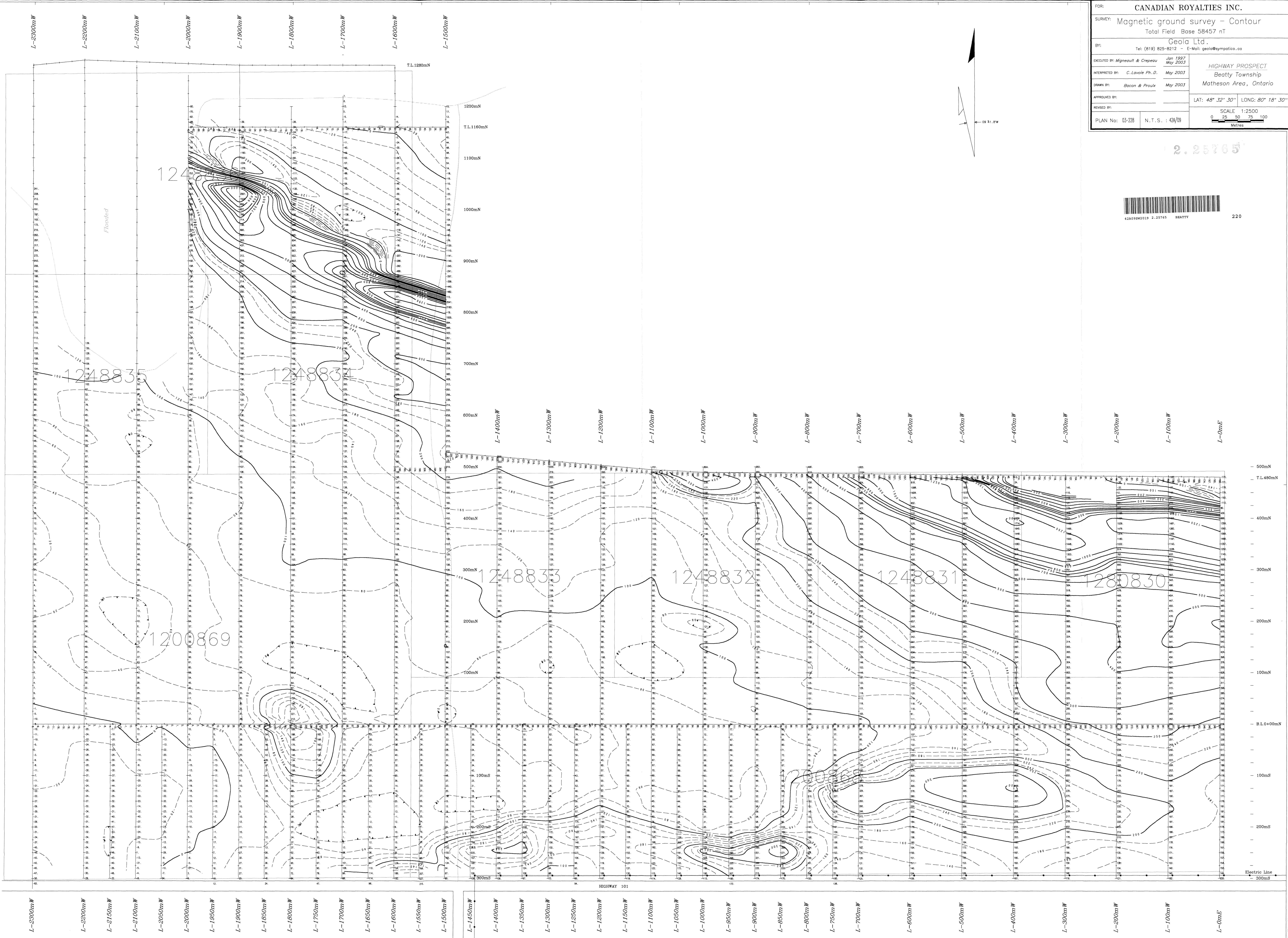
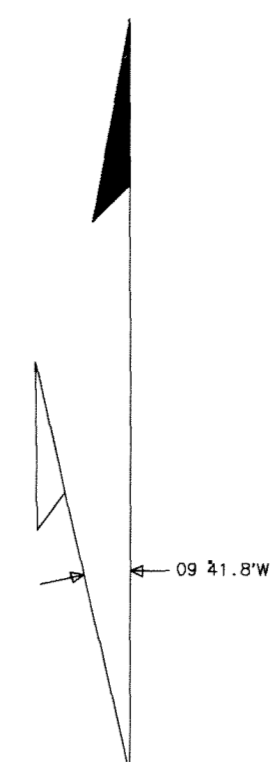
REVISED BY:

PLAN No: 03-228 N.T.S. : 47N/09

HIGHWAY PROSPECT  
 Beatty Township  
 Matheson Area, Ontario

LAT: 48° 32' 30" LONG: 80° 18' 30"

SCALE 1:2500  
 0 25 50 75 100  
 Metres

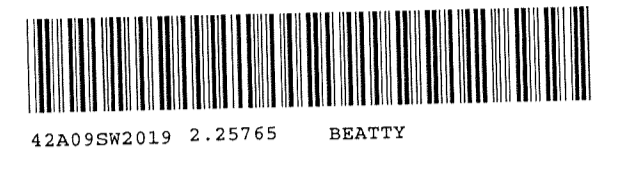
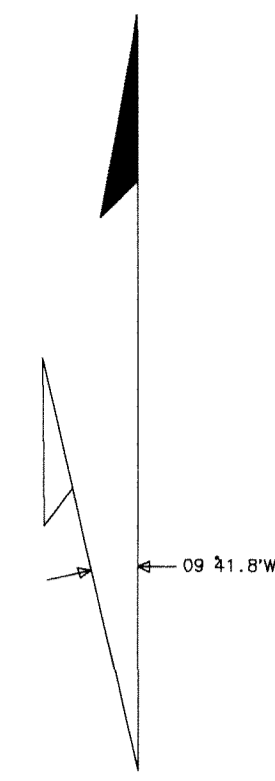


220

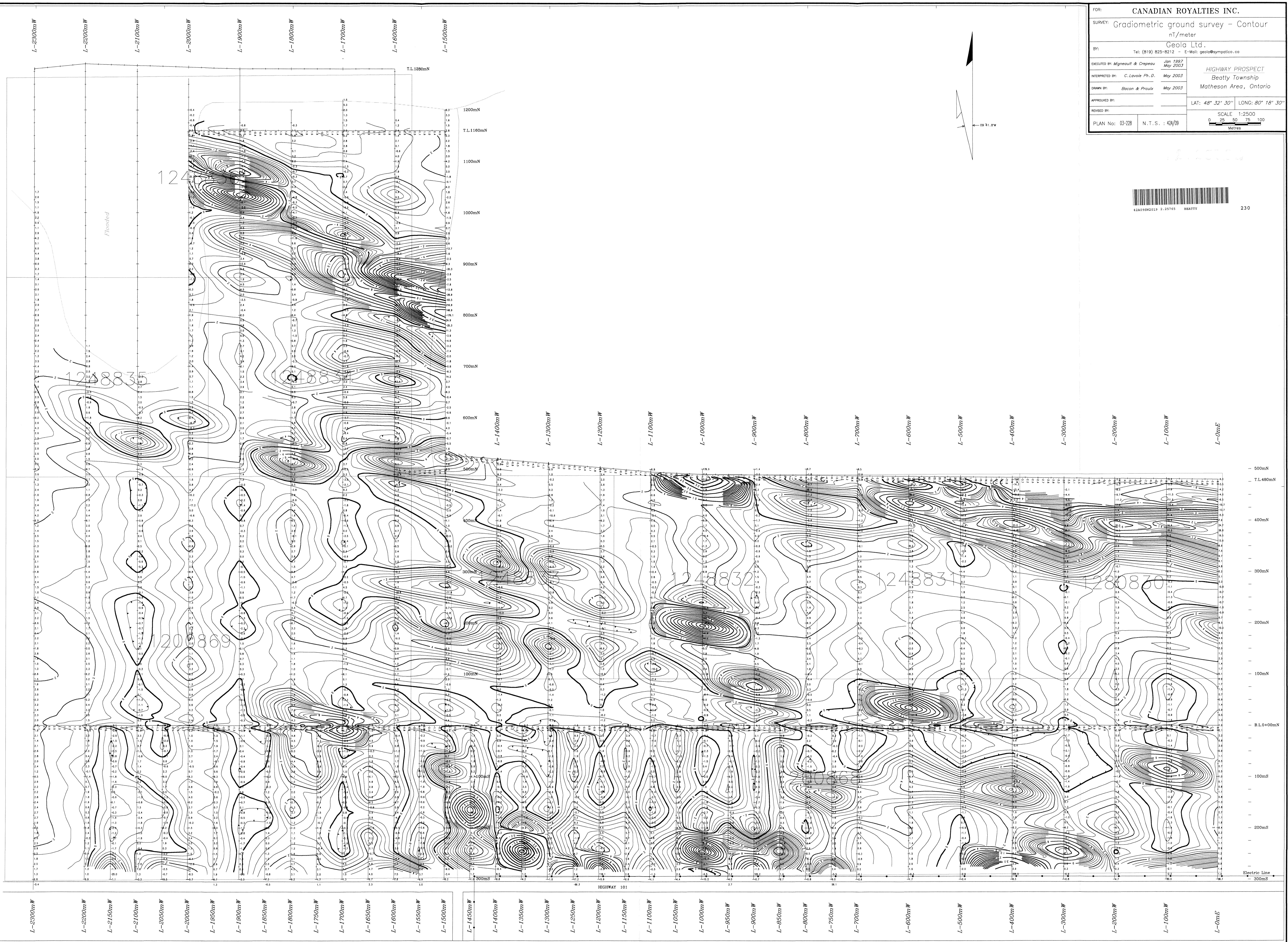
2.25765



FOR: CANADIAN ROYALTIES INC.  
 SURVEY: Gradiometric ground survey - Contour  
 nT/meter  
 Geola Ltd.  
 BY: Tel: (819) 825-8212 - E-Mail: geola@sympatico.ca  
 EXECUTED BY: Migneault & Crepeau Jan 1997  
 May 2003  
 INTERPRETED BY: C. Lavoie Ph.D. May 2003  
 DRAWN BY: Bacon & Proulx May 2003  
 APPROVED BY: \_\_\_\_\_  
 REVISED BY: \_\_\_\_\_  
 PLAN No: 03-228 N.T.S.: 42/09  
 LAT: 48° 32' 30" LONG: 80° 18' 30"  
 SCALE 1:2500  
 0 25 50 75 100  
 Metres



230



Flooded

124

1248835

1248835

1248832

1248831

1280870

L-2300mW  
L-2200mW  
L-2100mW  
L-2000mW  
L-1900mW  
L-1800mW  
L-1700mW  
L-1600mW  
L-1500mW

L-2300mW  
L-2200mW  
L-2150mW  
L-2100mW  
L-2050mW  
L-2000mW  
L-1950mW  
L-1900mW  
L-1850mW  
L-1800mW  
L-1750mW  
L-1700mW  
L-1650mW  
L-1600mW  
L-1550mW  
L-1500mW

L-1450mW  
L-1400mW  
L-1350mW  
L-1300mW  
L-1250mW  
L-1200mW  
L-1150mW  
L-1100mW  
L-1050mW  
L-1000mW  
L-950mW  
L-900mW  
L-850mW  
L-800mW  
L-750mW  
L-700mW  
L-600mW  
L-500mW  
L-400mW  
L-300mW  
L-200mW  
L-100mW  
L-0mE

T.L. 1280mN  
T.L. 1160mN  
1100mN  
1000mN  
900mN  
800mN  
700mN  
600mN  
500mN  
400mN  
300mN  
200mN  
100mN  
B.L.0+00mN  
100mS  
200mS  
300mS

L-1400mW  
L-1300mW  
L-1200mW  
L-1100mW  
L-1000mW  
L-900mW  
L-800mW  
L-700mW  
L-600mW  
L-500mW  
L-400mW  
L-300mW  
L-200mW  
L-100mW  
L-0mE

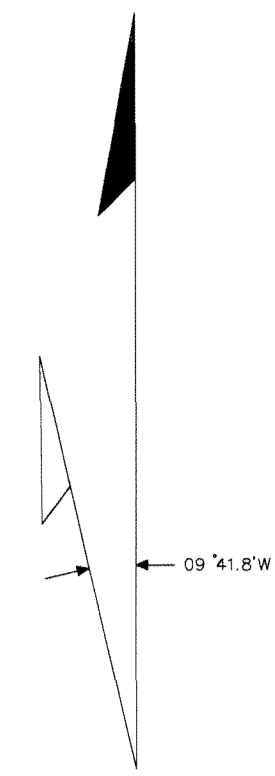
HIGHWAY 101

Electric Line

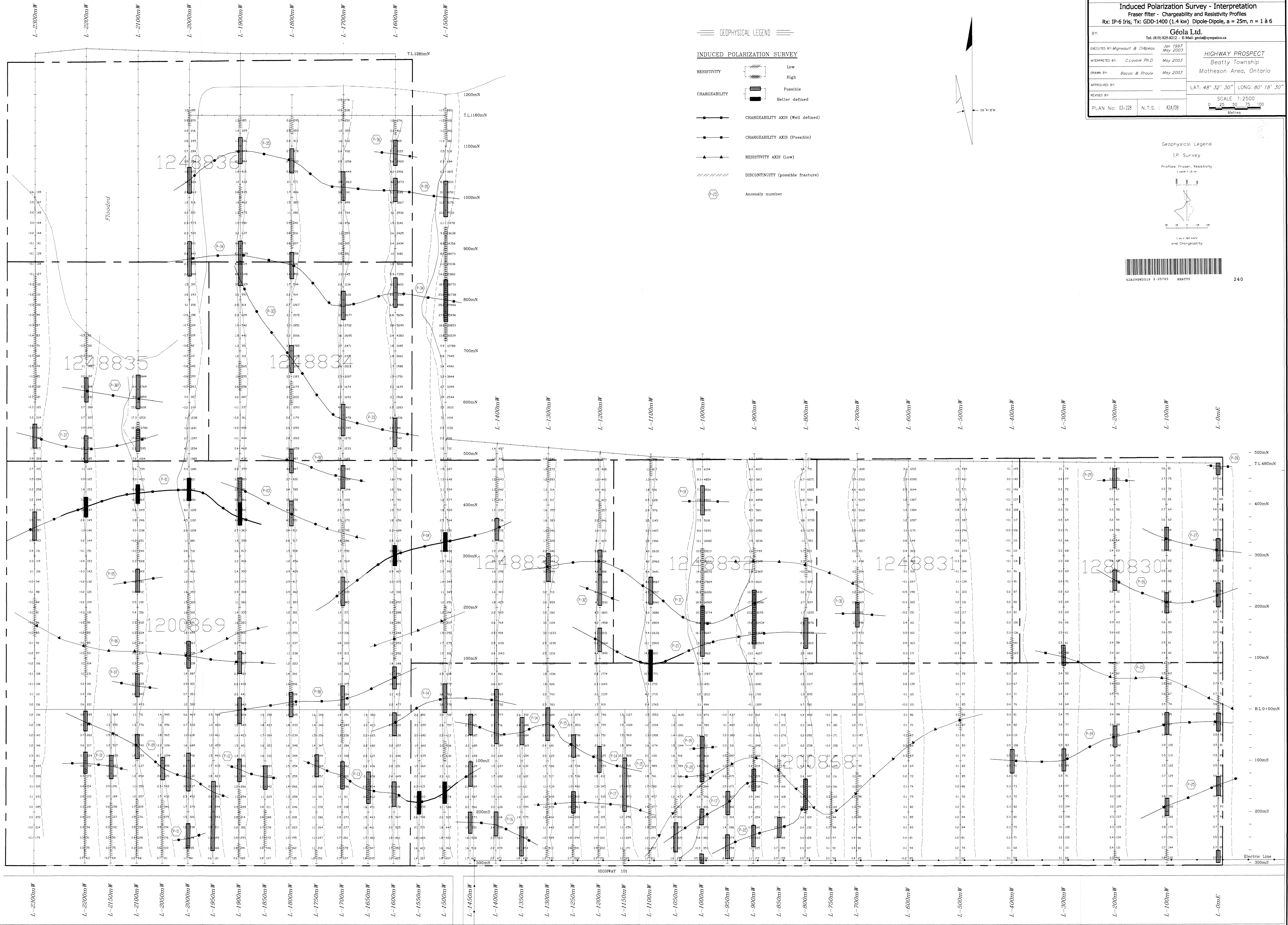
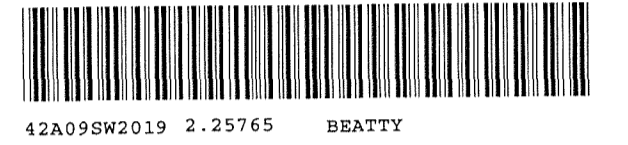
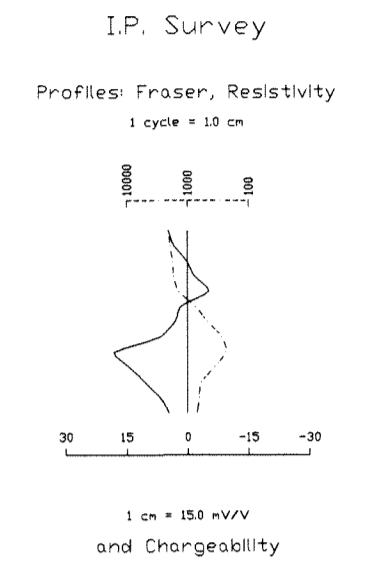


GEOPHYSICAL LEGEND

- INDUCED POLARIZATION SURVEY**
- RESISTIVITY
    - Low (diagonal lines)
    - High (cross-hatch)
  - CHARGEABILITY
    - Possible (dashed line)
    - Better defined (solid line)
  - CHARGEABILITY AXIS (Well defined) (solid line with dots)
  - CHARGEABILITY AXIS (Possible) (dashed line with dots)
  - RESISTIVITY AXIS (Low) (solid line with triangles)
  - DISCONTINUITY (possible fracture) (dashed line)
  - Anomaly number (circle with number)

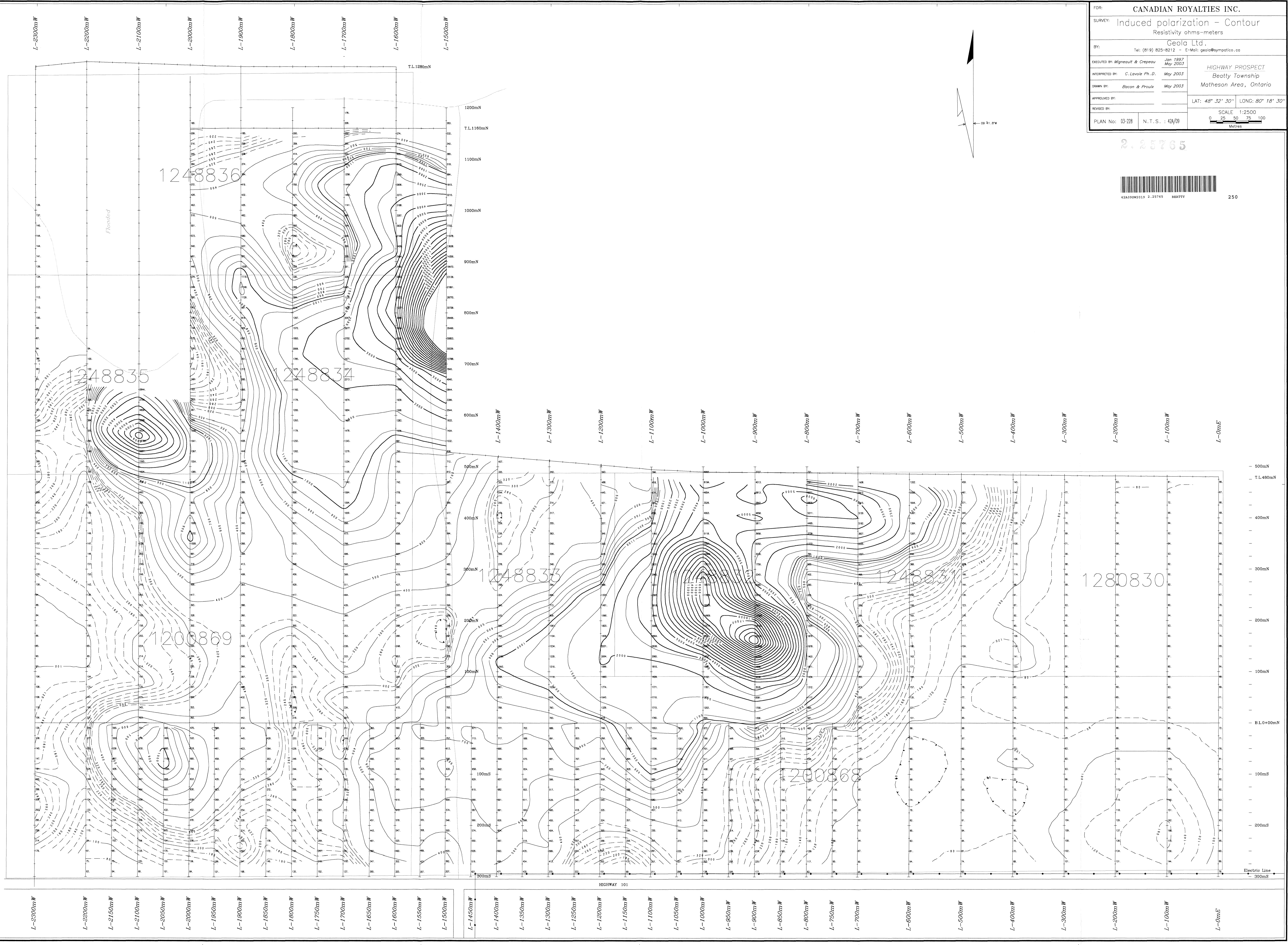


Geophysical Legend





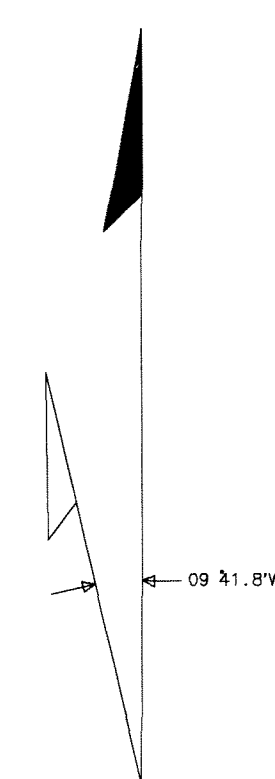
2.25765



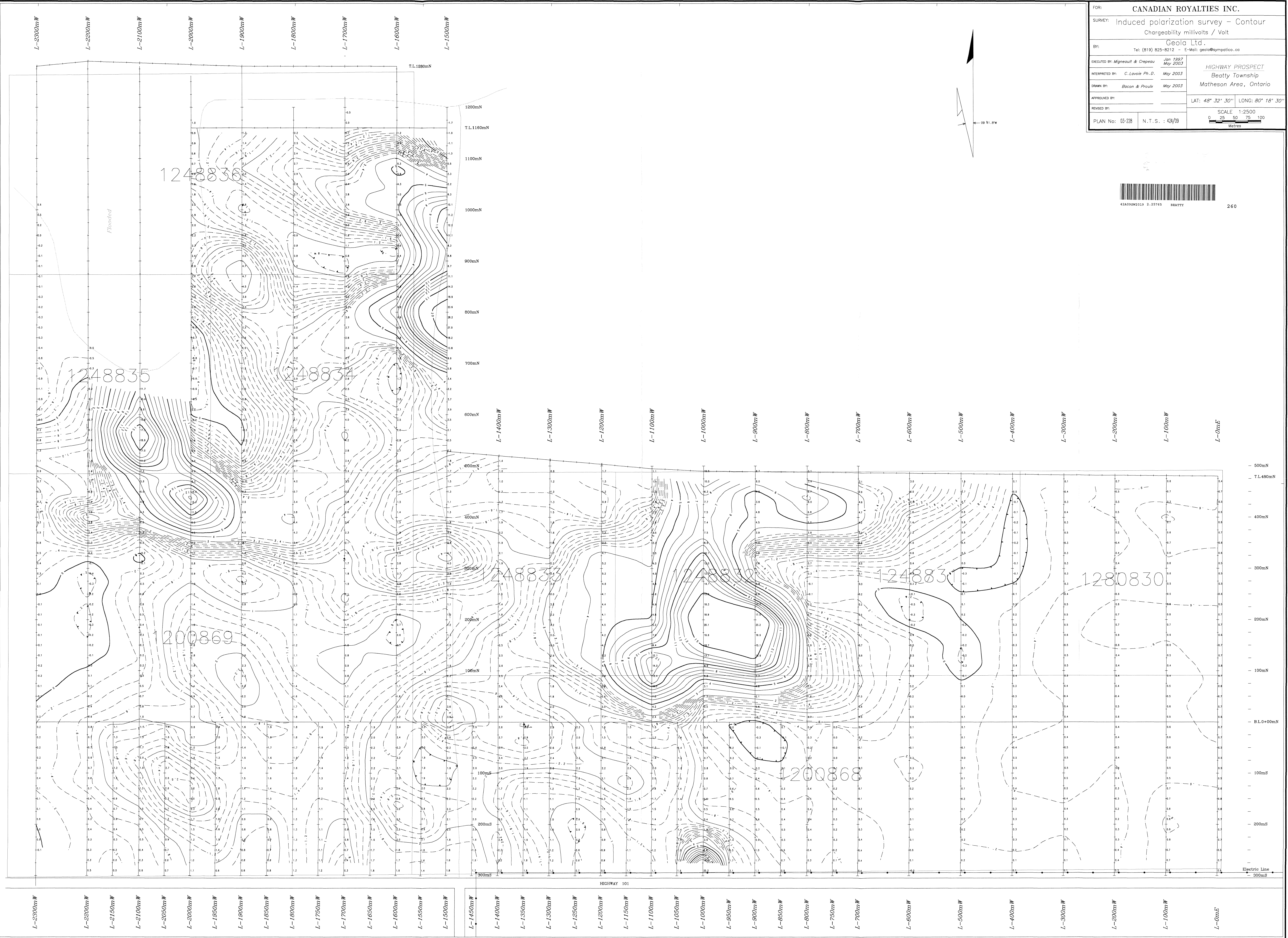
L-2300mW L-2200mW L-2150mW L-2100mW L-2050mW L-2000mW L-1950mW L-1900mW L-1850mW L-1800mW L-1750mW L-1700mW L-1650mW L-1600mW L-1550mW L-1500mW  
 L-1450mW L-1400mW L-1350mW L-1300mW L-1250mW L-1200mW L-1150mW L-1100mW L-1050mW L-1000mW L-950mW L-900mW L-850mW L-800mW L-750mW L-700mW L-600mW L-500mW L-400mW L-300mW L-200mW L-100mW L-0mE



FOR: CANADIAN ROYALTIES INC.  
 SURVEY: Induced polarization survey - Contour  
 Chargeability millivolts / Volt  
 BY: Geola Ltd.  
 Tel: (819) 825-8212 - E-Mail: geola@sympatico.ca  
 EXECUTED BY: Mignault & Crepeau Jan 1997  
 May 2003  
 INTERPRETED BY: C. Lavoie Ph. D. May 2003  
 DRAWN BY: Bacon & Prault May 2003  
 APPROVED BY: \_\_\_\_\_  
 REVISED BY: \_\_\_\_\_  
 PLAN No: 03-228 N.T.S.: 4/1/09  
 HIGHWAY PROSPECT  
 Beatty Township  
 Matheson Area, Ontario  
 LAT: 48° 32' 30" LONG: 80° 18' 30"  
 SCALE 1:2500  
 0 25 50 75 100  
 Metres



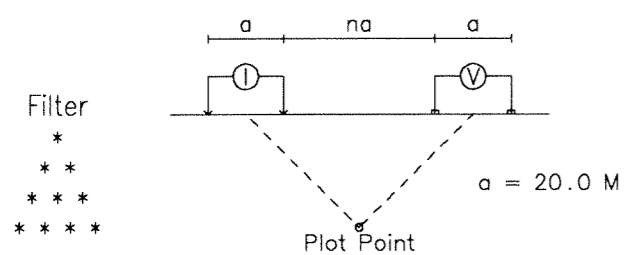
260



L-2300mW L-2200mW L-2150mW L-2100mW L-2050mW L-2000mW L-1950mW L-1900mW L-1850mW L-1800mW L-1750mW L-1700mW L-1650mW L-1600mW L-1550mW L-1500mW  
 L-1450mW L-1400mW L-1350mW L-1300mW L-1250mW L-1200mW L-1150mW L-1100mW L-1050mW L-1000mW L-950mW L-900mW L-850mW L-800mW L-750mW L-700mW L-600mW L-500mW L-400mW L-300mW L-200mW L-100mW L-0mE

Ligne 0.00 E

Dipole-Dipole



Operator : J. Crépeau  
 Receiver : IP-6, BRGM  
 Transmitter : GDD 1400  
 Generator : 1.4 kW

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

INTERPRETATION

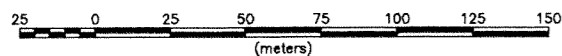
- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



42A09SW2019 2.25765 BEATTY

270

Scale 1:2500

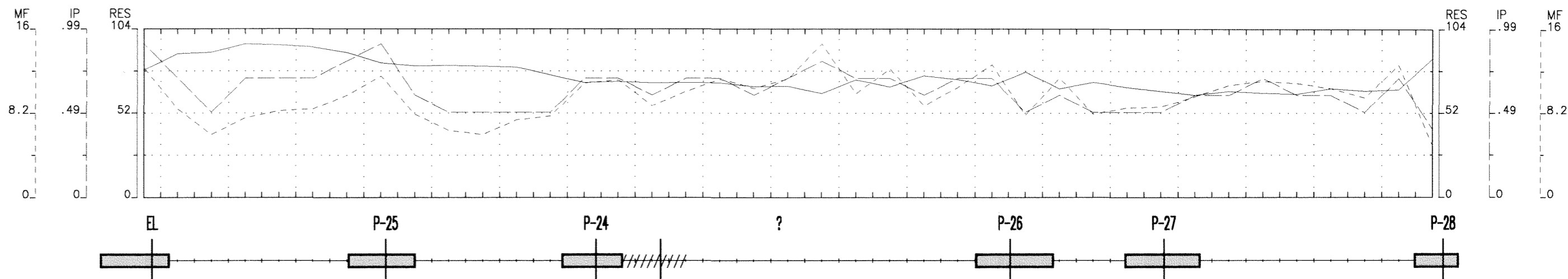


12.25765

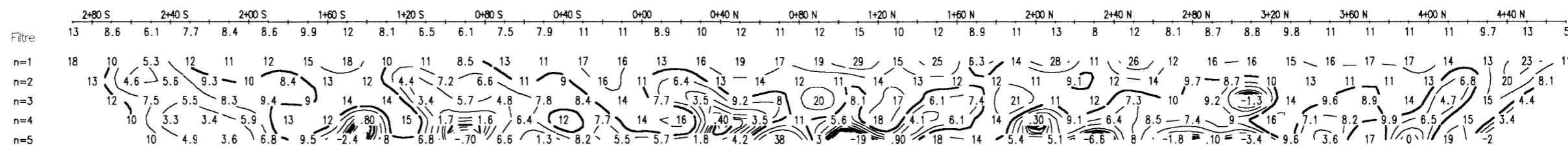
CANADIAN ROYALTIES INC.  
 INDUCED POLARIZATION SURVEY  
 HIGHWAY PROSPECT  
 Beatty Township Ont.

Date: 03/05/31  
 Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-00

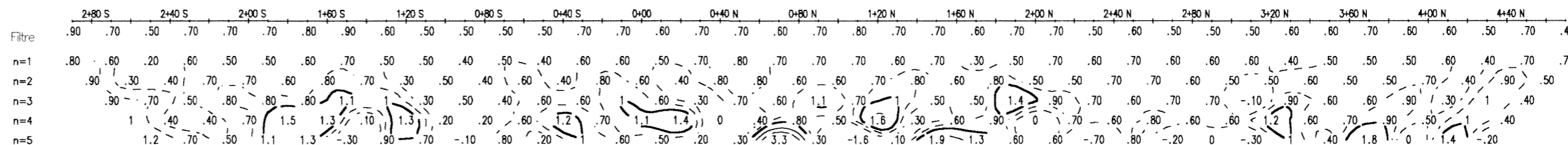


Facteur métal  
 (char \* 1000 / rés)



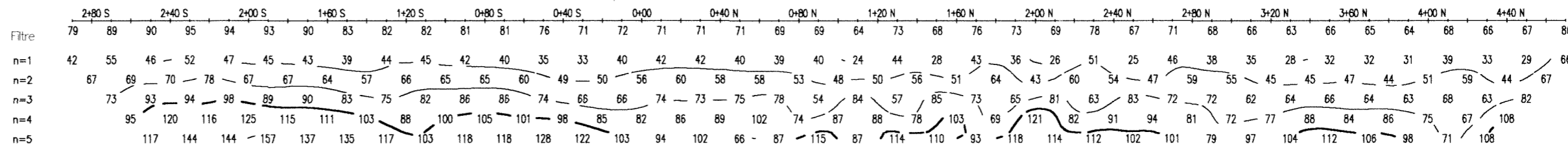
Facteur métal  
 (char \* 1000 / rés)

Chargeabilité  
 (milliVolts/Volt)



Chargeabilité  
 (milliVolts/Volt)

Résistivité  
 (ohms-mètres)



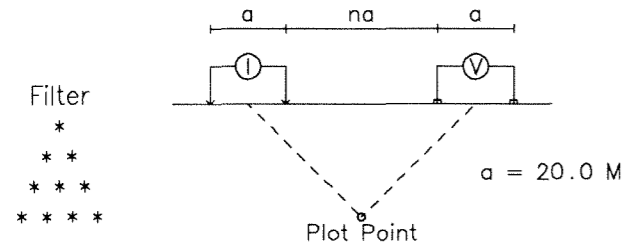
Résistivité  
 (ohms-mètres)

Ligne 0.00 E



Ligne 100.00 W

Dipole-Dipole



Operator : J. Crépeau  
 Receiver : IP-6, BRGM  
 Transmitter : GDD 1400  
 Generator : 1.4 kW

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

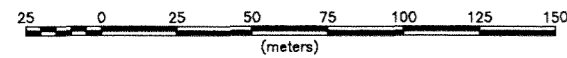
INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



42A09SW2019 2.25765 BEATTY 280

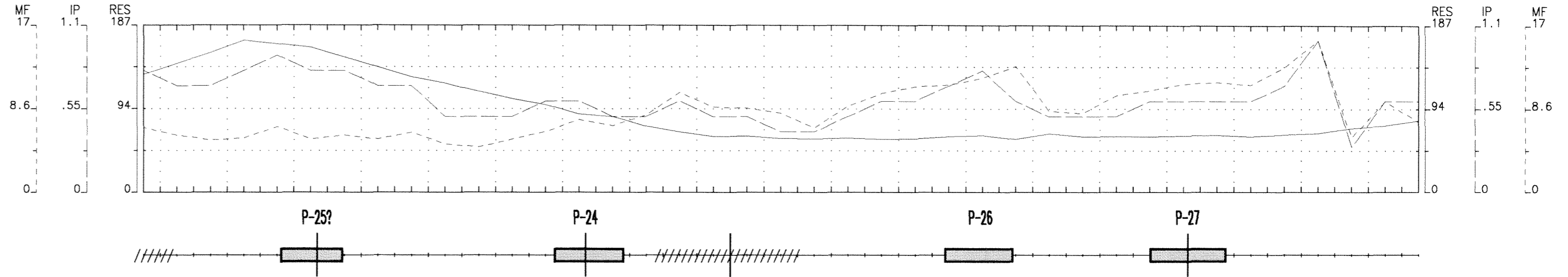
Scale 1:2500



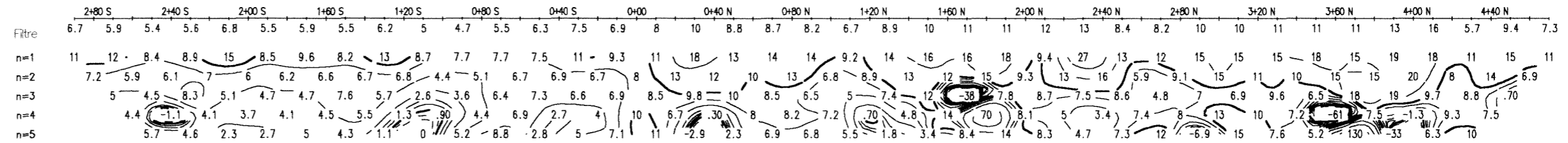
CANADIAN ROYALTIES INC.  
 INDUCED POLARIZATION SURVEY  
 HIGHWAY PROSPECT  
 Betty Township Ont.

Date: 03/05/31  
 Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-01

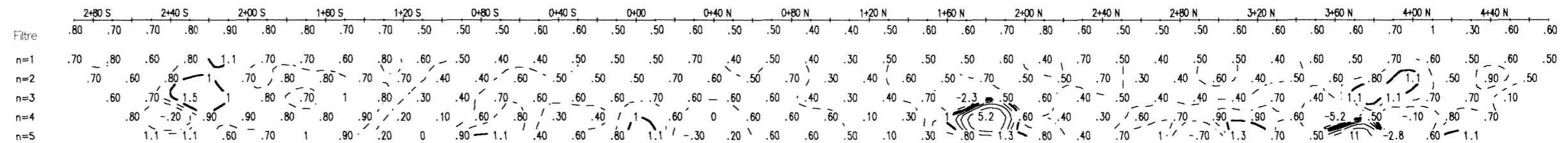


Facteur métal  
 (char \* 1000 / rés)



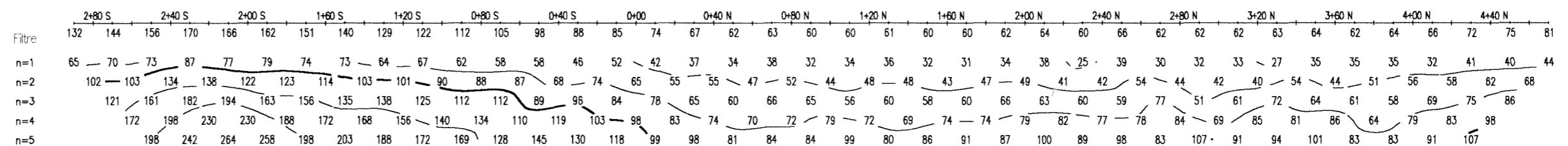
Facteur métal  
 (char \* 1000 / rés)

Chargeabilité  
 (milliVolts/Volt)



Chargeabilité  
 (milliVolts/Volt)

Résistivité  
 (ohms-mètres)

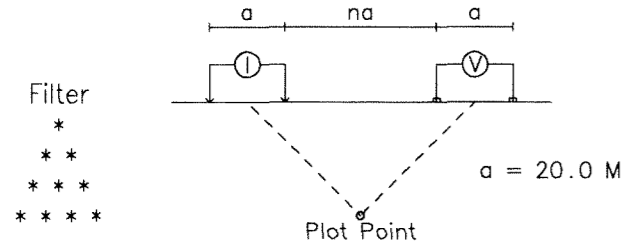


Résistivité  
 (ohms-mètres)

Ligne 100.00 W

Ligne 200.00 W

Dipole-Dipole

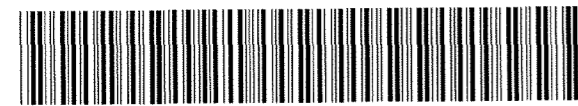


Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

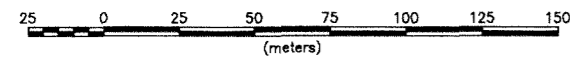
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



Scale 1:2500

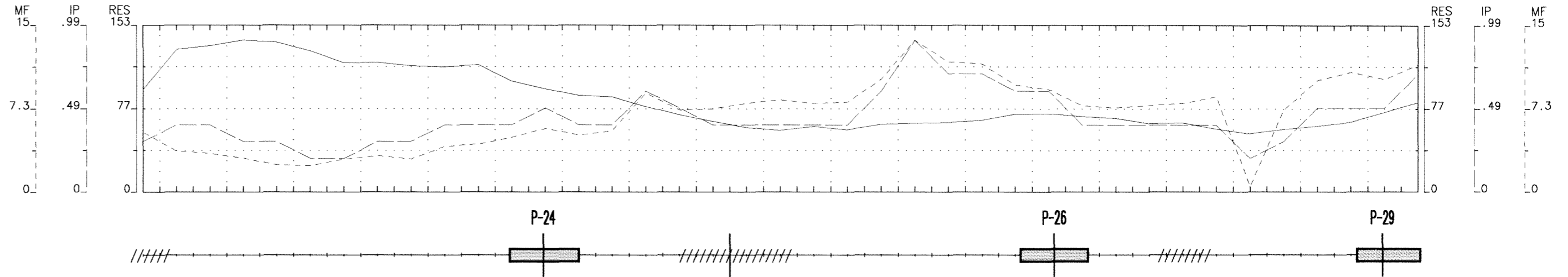


2.25765

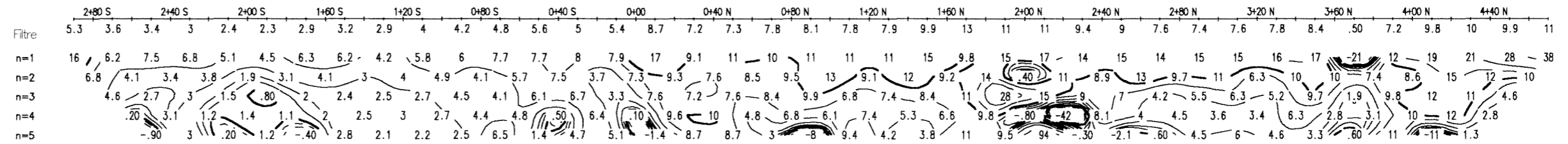
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/05/31  
Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-02

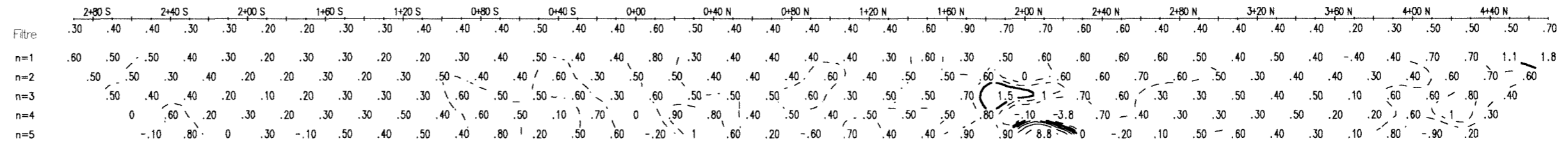


Facteur métal  
(char \* 1000 / rés)



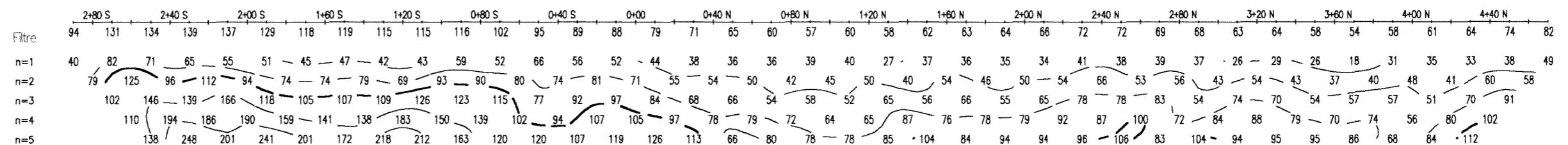
Facteur métal  
(char \* 1000 / rés)

Chargeabilité  
(millVolts/Volt)



Chargeabilité  
(millVolts/Volt)

Résistivité  
(ohms-mètres)

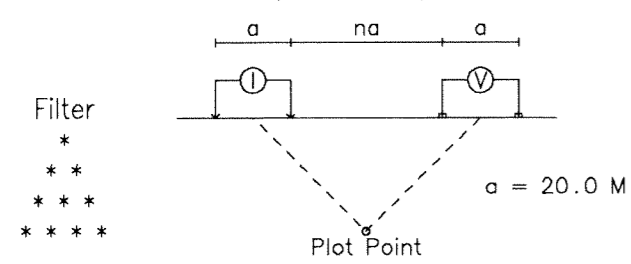


Résistivité  
(ohms-mètres)

Ligne 200.00 W

Ligne 300.00 W

Dipole-Dipole



Operator : J. Crépeau  
 Receiver : IP-6, BRGM  
 Transmitter : GDD 1400  
 Generator : 1.4 kW

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

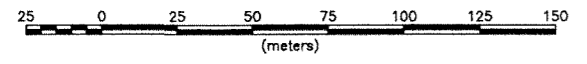
INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



42A09SW2019 2.25765 BEATTY 300

Scale 1:2500

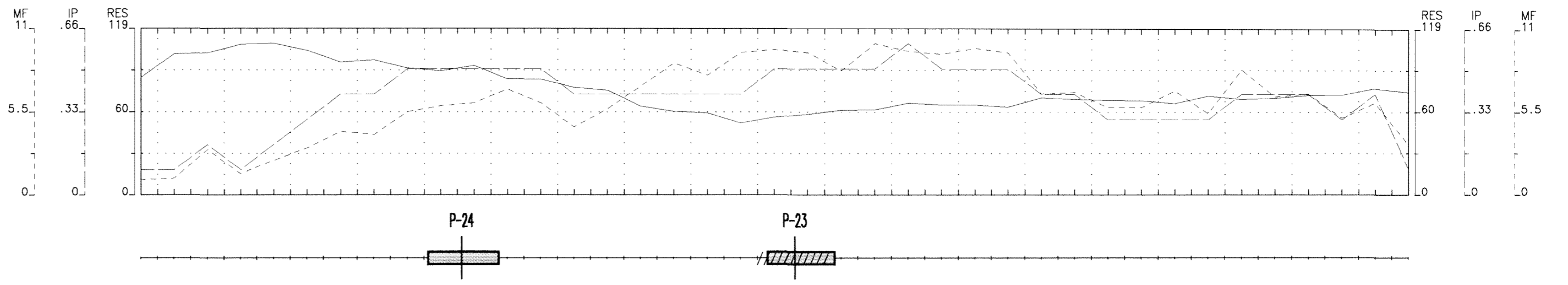


2.25765

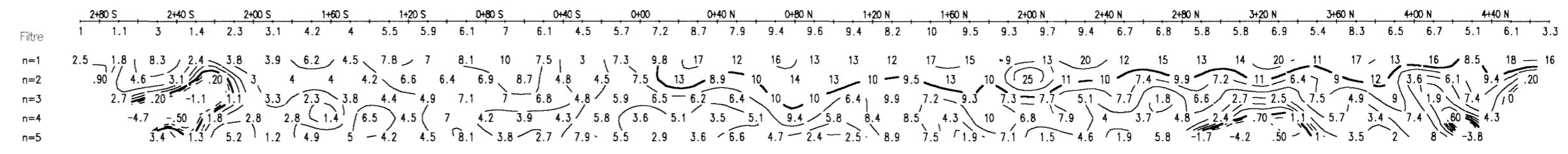
CANADIAN ROYALTIES INC.  
 INDUCED POLARIZATION SURVEY  
 HIGHWAY PROSPECT  
 Beatty Township Ont.

Date: 03/05/31  
 Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-03

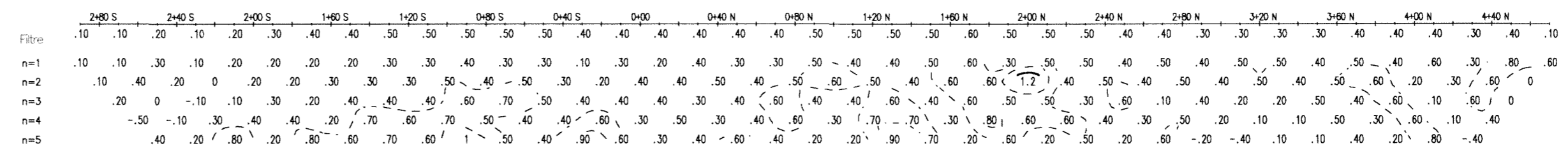


Facteur métal  
 (char \* 1000 / r<sub>és</sub>)



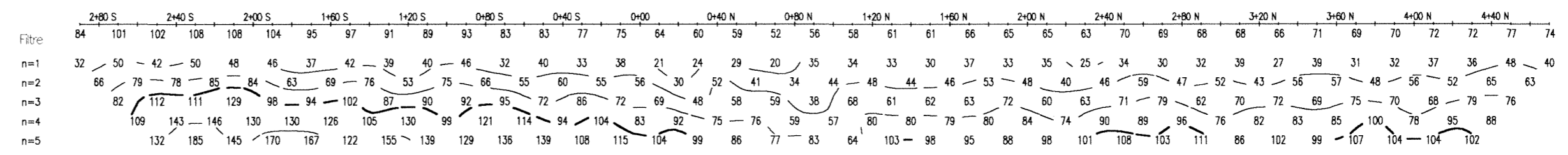
Facteur métal  
 (char \* 1000 / r<sub>és</sub>)

Chargeabilité  
 (milliVolts/Volt)



Chargeabilité  
 (milliVolts/Volt)

Résistivité  
 (ohms-mètres)



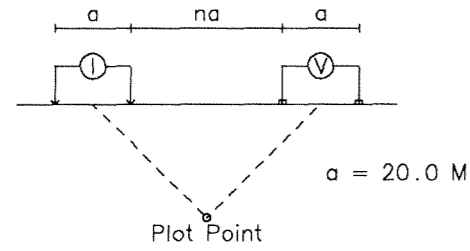
Résistivité  
 (ohms-mètres)

Ligne 300.00 W



Ligne 400.00 W

Dipole-Dipole



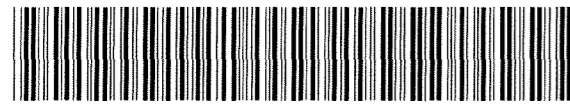
Filter  
\*  
\* \*  
\* \* \*  
\* \* \* \*

Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

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

INTERPRETATION

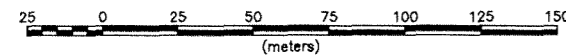
- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



42A09SW2019 2.25765 BEATY

310

Scale 1:2500

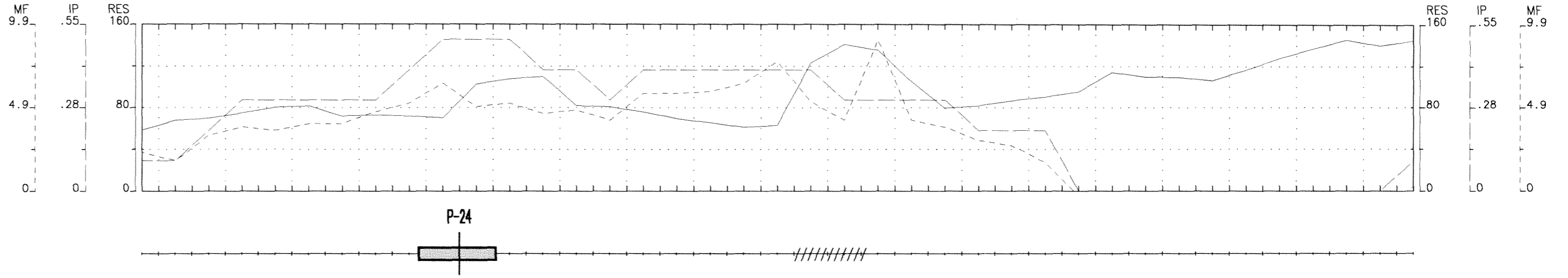


2.25765

CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

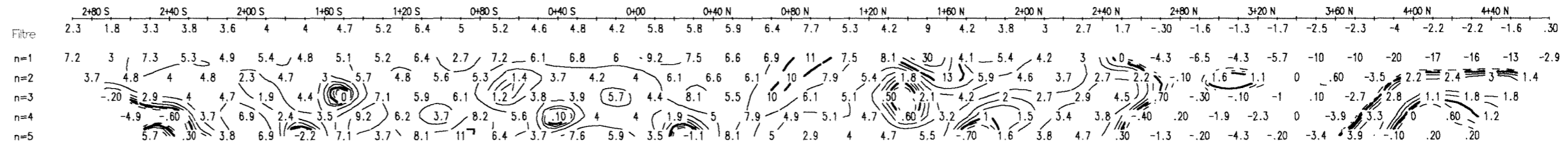
Date: 03/05/31  
Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-04



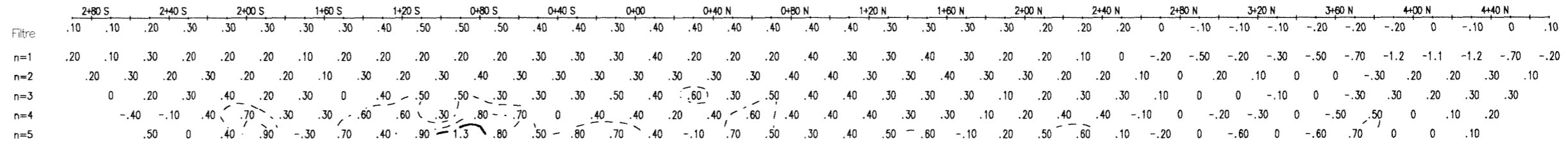
Facteur métal  
(char \* 1000 / rés)

Facteur métal  
(char \* 1000 / rés)



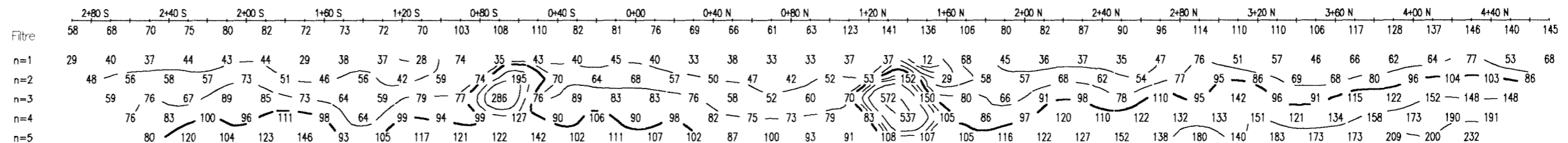
Chargeabilité  
(milliVolts/Volt)

Chargeabilité  
(milliVolts/Volt)



Résistivité  
(ohms-mètres)

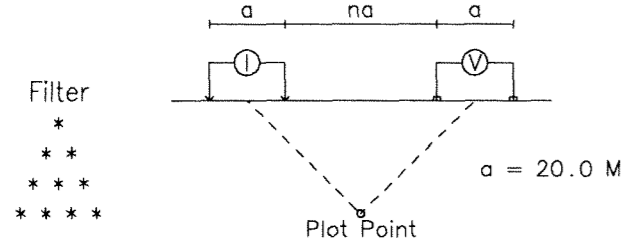
Résistivité  
(ohms-mètres)



Ligne 400.00 W

Ligne 500.00 W

Dipole-Dipole



Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

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

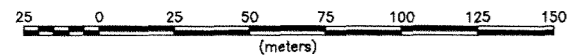
INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



42A09SW2019 2.25765 BEATTY 320

Scale 1:2500

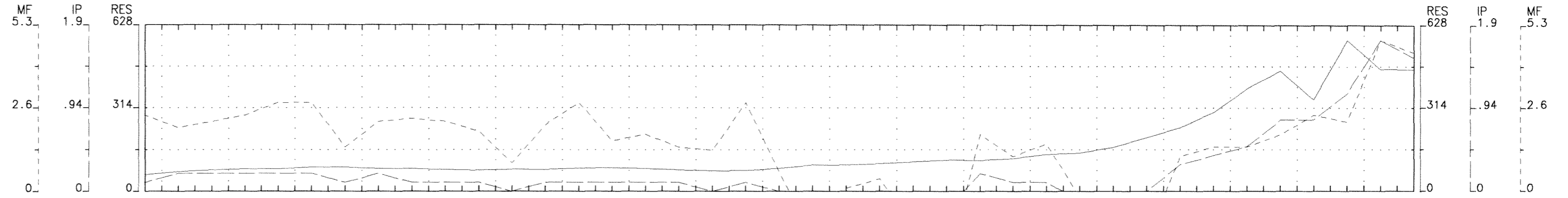


2.25765

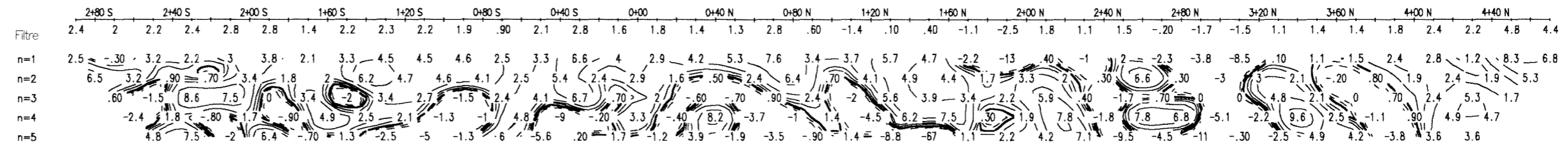
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/05/31  
Interpretation: Clermont Lavoie Ph.D

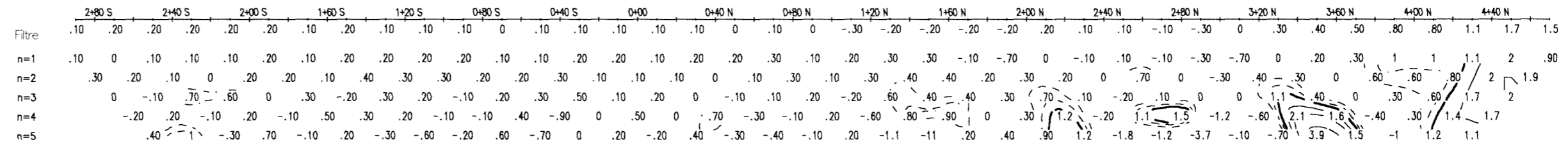
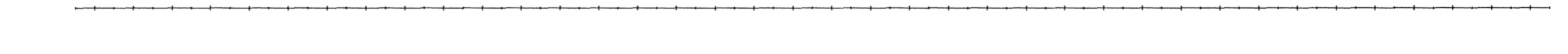
GEOLA LTEE 228-05



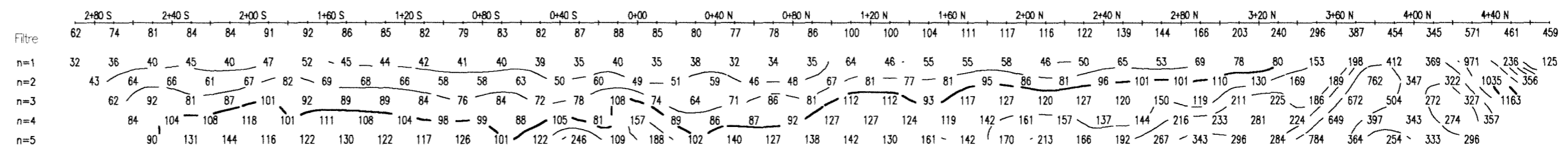
Facteur métal  
(char \* 1000 / rés)



Chargeabilité  
(millVolts/Volt)



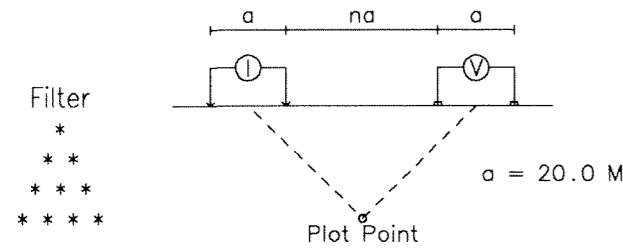
Résistivité  
(ohms-mètres)



Ligne 500.00 W

Ligne 600.00 W

Dipole-Dipole

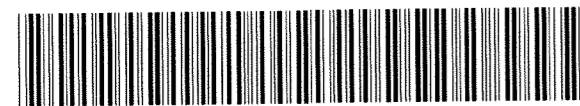


Operator : J. Crépeau  
 Receiver : IP-6, BRGM  
 Transmitter : GDD 1400  
 Generator : 1.4 kW

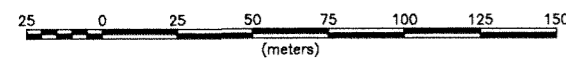
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



Scale 1:2500

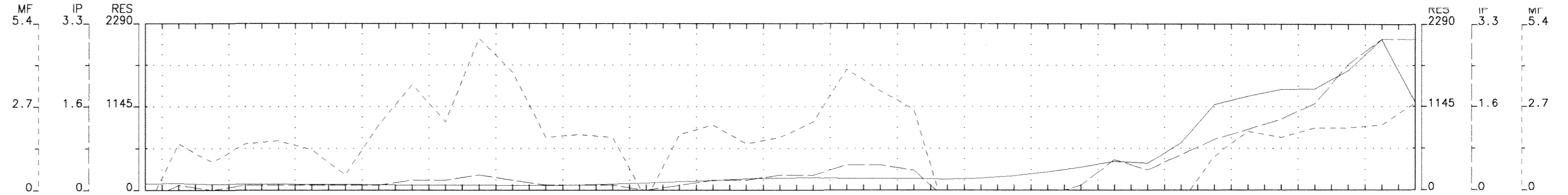


2.25765

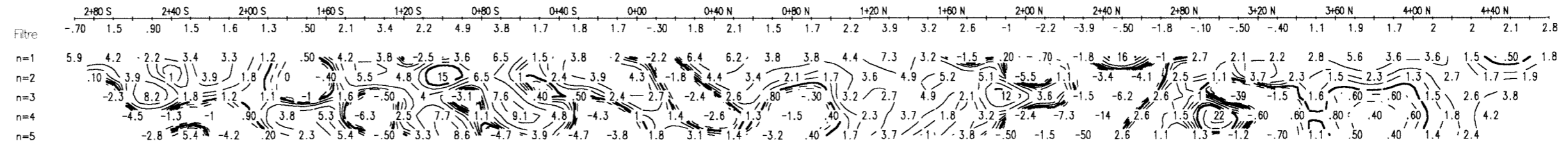
CANADIAN ROYALTIES INC.  
 INDUCED POLARIZATION SURVEY  
 HIGHWAY PROSPECT  
 Beatty Township Ont.

Date: 03/05/31  
 Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-06

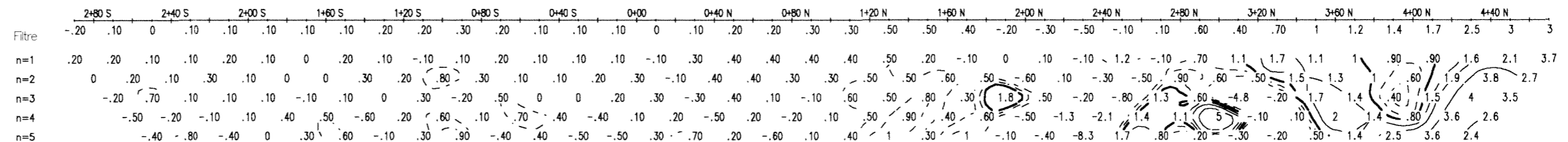


Facteur métal  
 (char \* 1000 / rés)



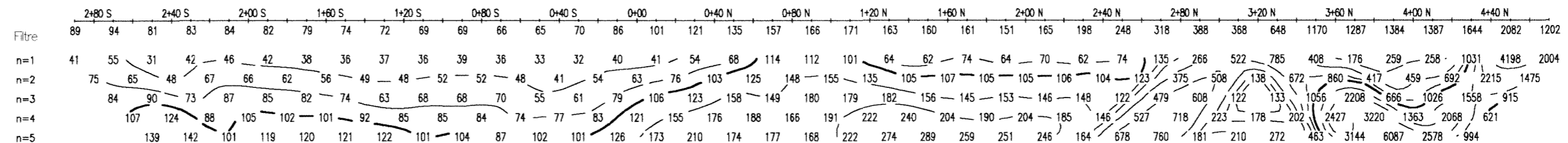
Facteur métal  
 (char \* 1000 / rés)

Chargeabilité  
 (milliVolts/Volt)



Chargeabilité  
 (milliVolts/Volt)

Résistivité  
 (ohms-mètres)

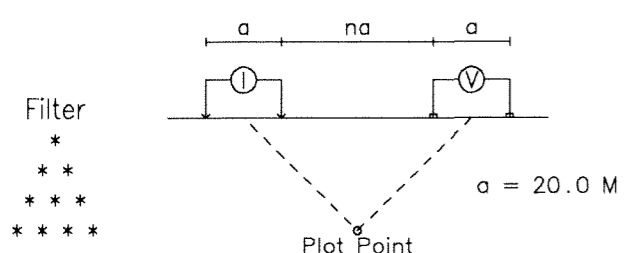


Résistivité  
 (ohms-mètres)

Ligne 600.00 W

Ligne 700.00 W

Dipole-Dipole

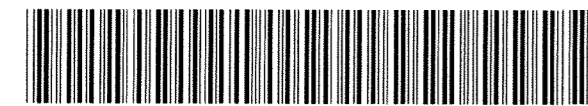


Operator : J. Crépeau  
 Receiver : IP-6, BRGM  
 Transmitter : GDD 1400  
 Generator : 1.4 kW

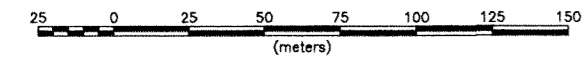
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



Scale 1:2500

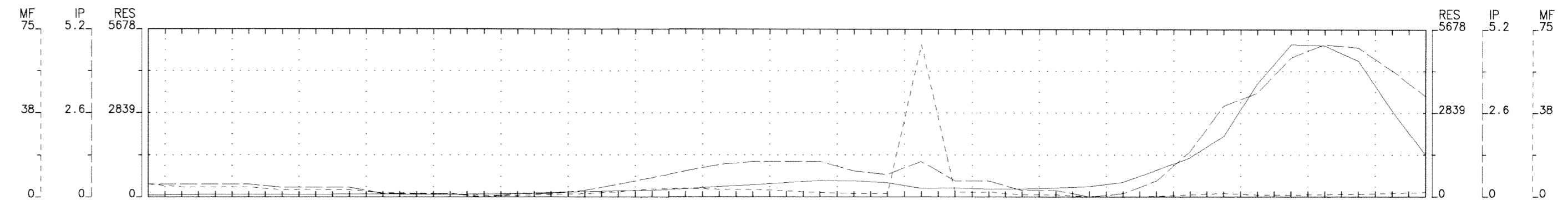


2.25765

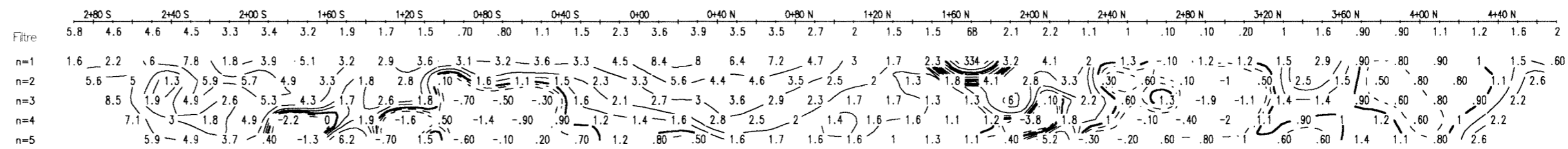
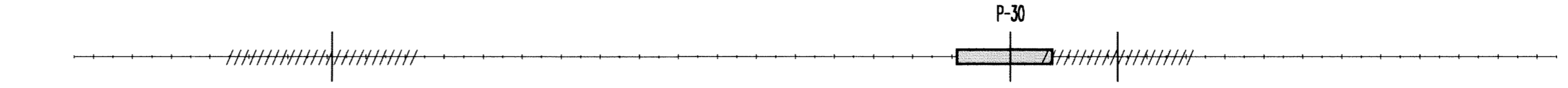
CANADIAN ROYALTIES INC.  
 INDUCED POLARIZATION SURVEY  
 HIGHWAY PROSPECT  
 Beatty Township Ont.

Date: 03/05/31  
 Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-07

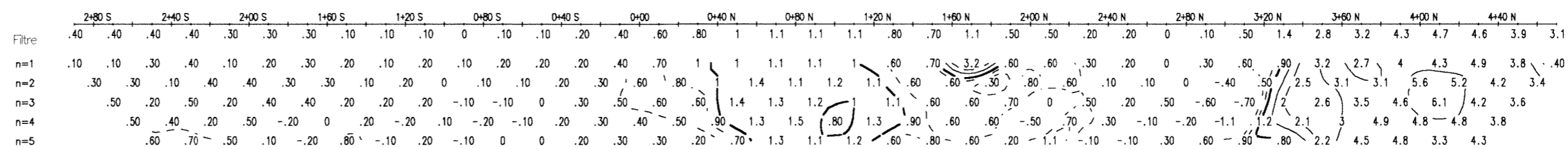


Facteur métal  
 (char \* 1000 / rés)



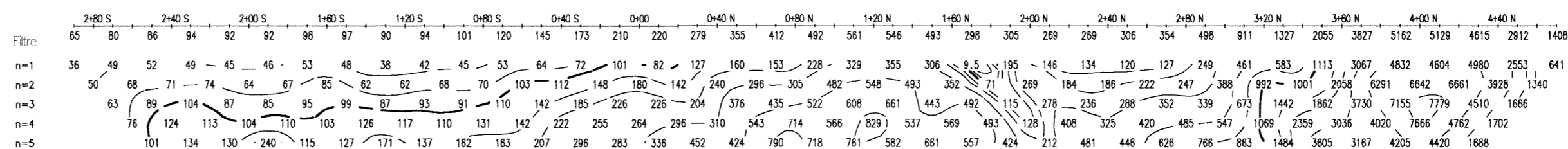
Facteur métal  
 (char \* 1000 / rés)

Chargeabilité  
 (milliVolts/Volt)



Chargeabilité  
 (milliVolts/Volt)

Résistivité  
 (ohms-mètres)

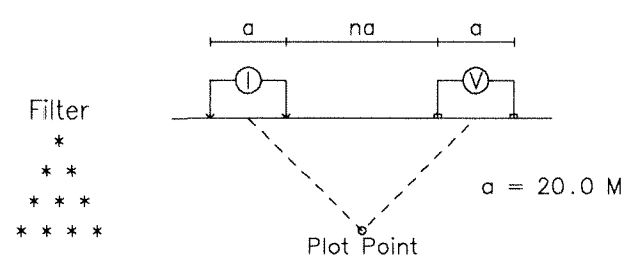


Résistivité  
 (ohms-mètres)

Ligne 700.00 W

Ligne 800.00 W

Dipole-Dipole

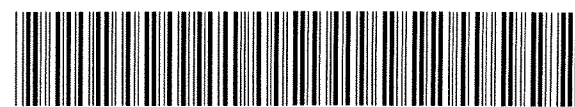


Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

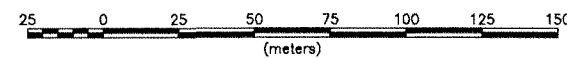
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



Scale 1:2500

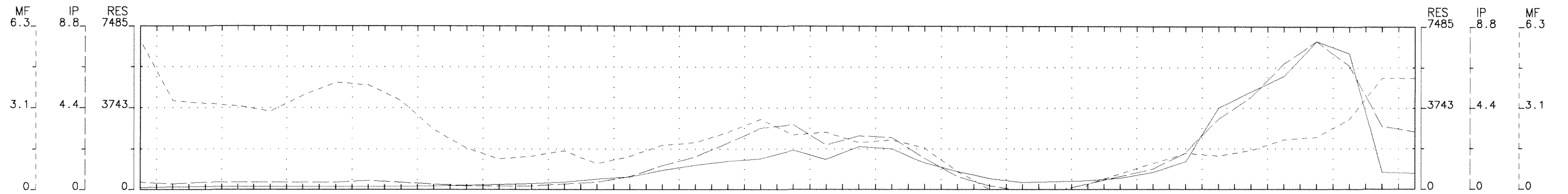


2.25765

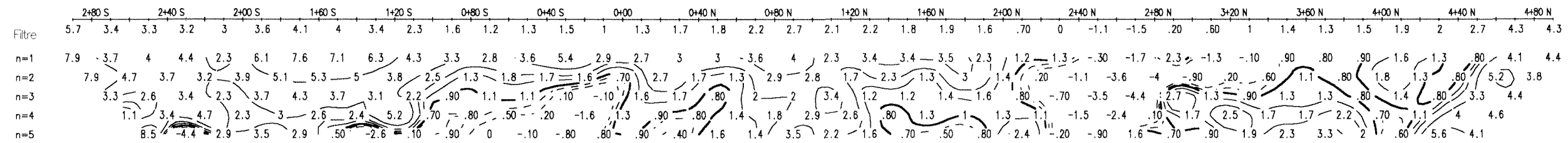
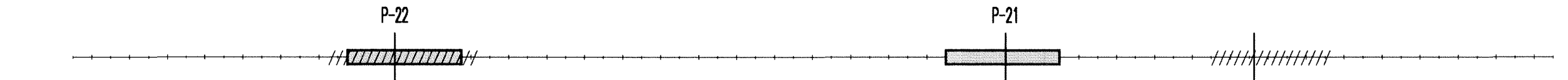
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/06/01  
Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-08

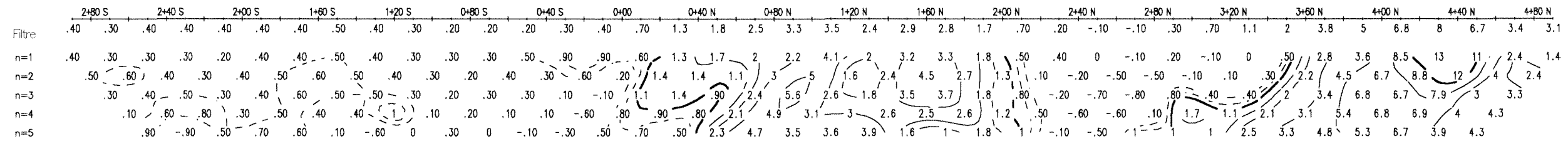


Facteur métal  
(char \* 1000 / rés)



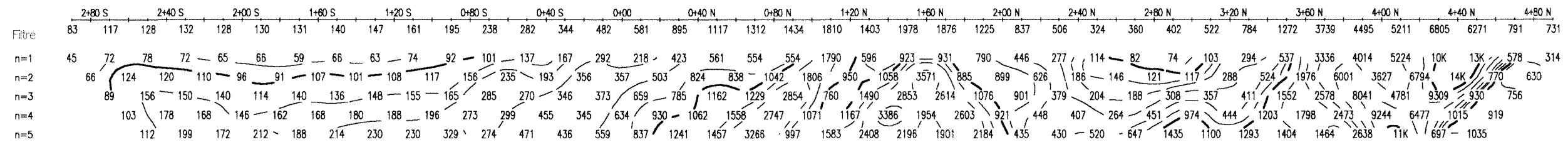
Facteur métal  
(char \* 1000 / rés)

Chargeabilité  
(milliVolts/Volt)



Chargeabilité  
(milliVolts/Volt)

Résistivité  
(ohms-mètres)

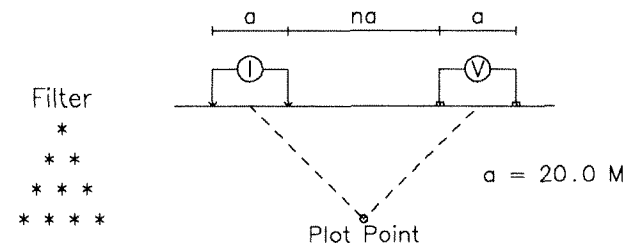


Résistivité  
(ohms-mètres)

Ligne 800.00 W

Ligne 900.00 W

Dipole-Dipole

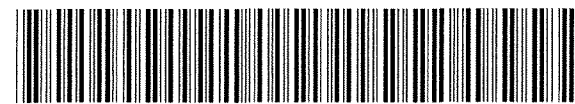


Operator : J. Crépeau  
 Receiver : IP-6, BRGM  
 Transmitter : GDD 1400  
 Generator : 1.4 kW

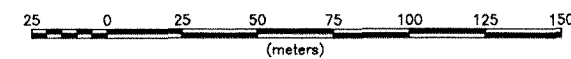
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



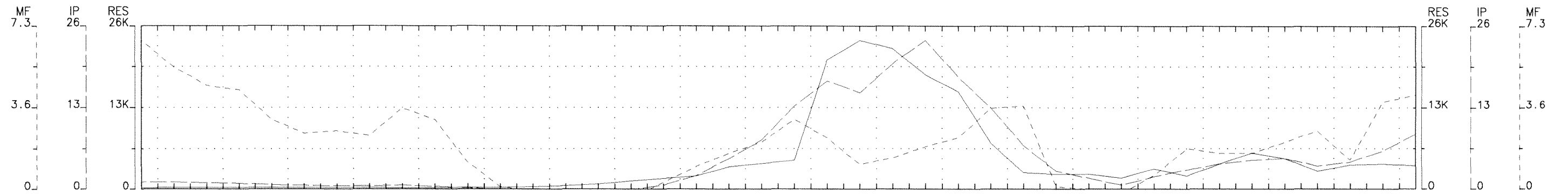
Scale 1:2500



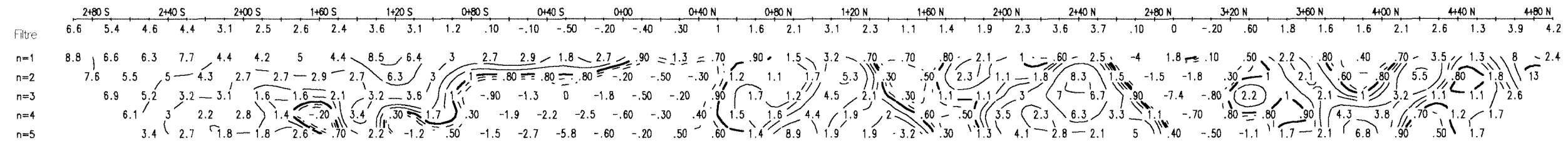
CANADIAN ROYALTIES INC.  
 INDUCED POLARIZATION SURVEY  
 HIGHWAY PROSPECT  
 Beatty Township Ont.

Date: 03/05/31  
 Interpretation: Clermont Lavoie Ph.D

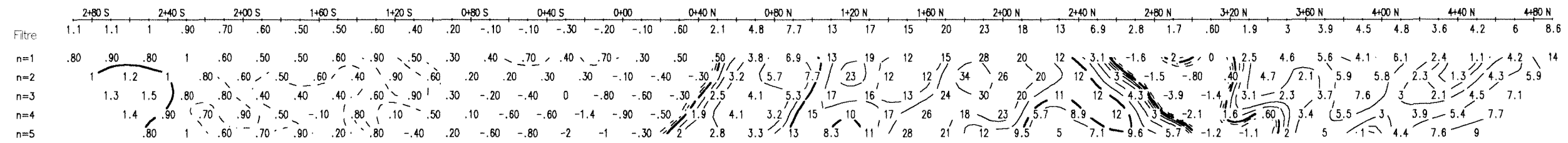
GEOLA LTEE 228-09



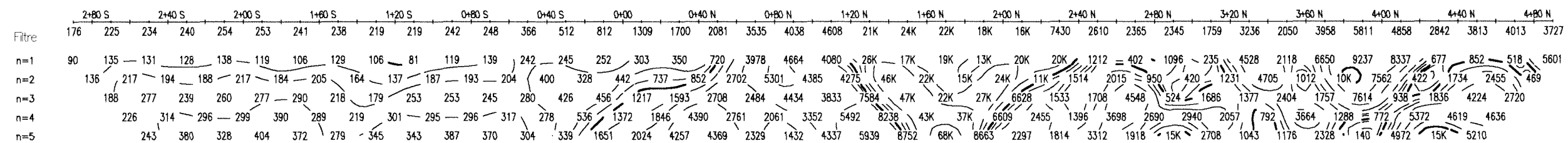
Facteur métal  
 (char \* 1000 / rés)



Chargeabilité  
 (millivolts/Volt)



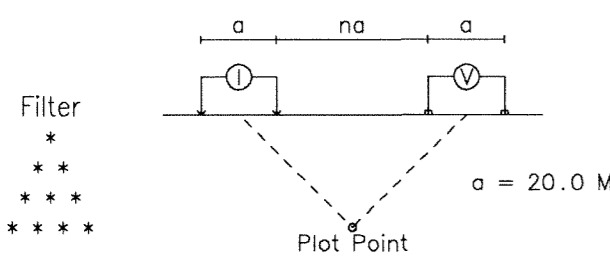
Résistivité  
 (ohms-mètres)



Ligne 900.00 W

Ligne 1000.00 W

Dipole-Dipole

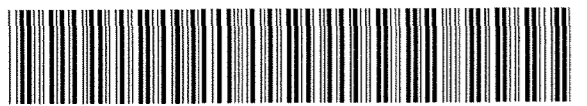


Operator : J. Crépeau  
 Receiver : IP-6, BRGM  
 Transmitter : GDD 1400  
 Generator : 1.4 kW

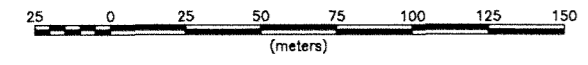
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



Scale 1:2500

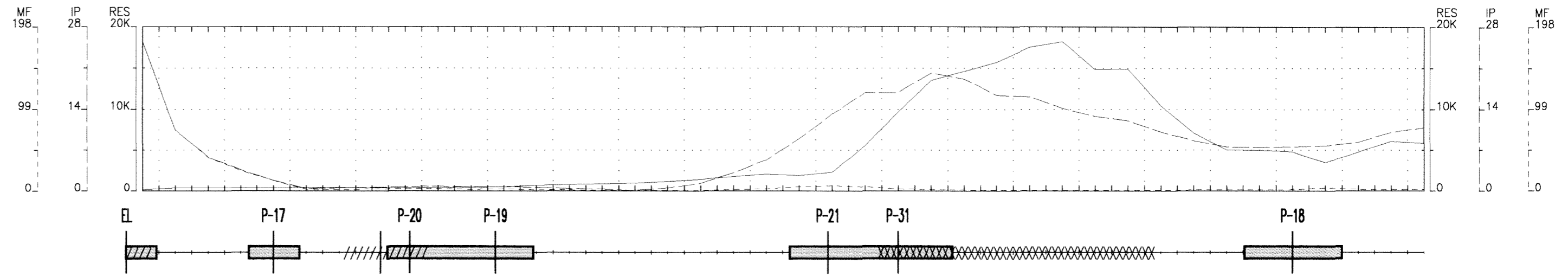


2.25765

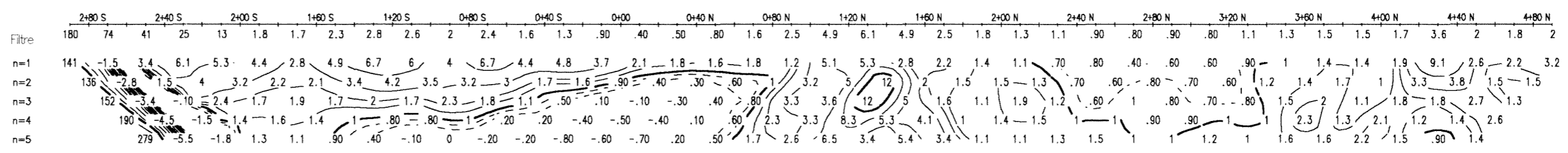
CANADIAN ROYALTIES INC.  
 INDUCED POLARIZATION SURVEY  
 HIGHWAY PROSPECT  
 Beatty Township Ont.

Date: 03/05/31  
 Interpretation: Clermont Lavoie Ph.D.

GEOLA LTEE 228-10

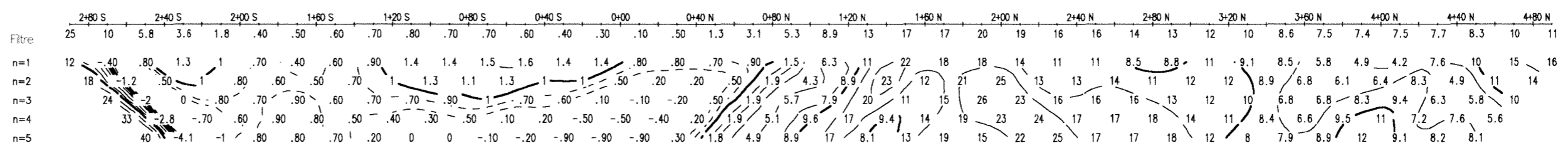


Facteur métal  
 (char \* 1000 / rés)



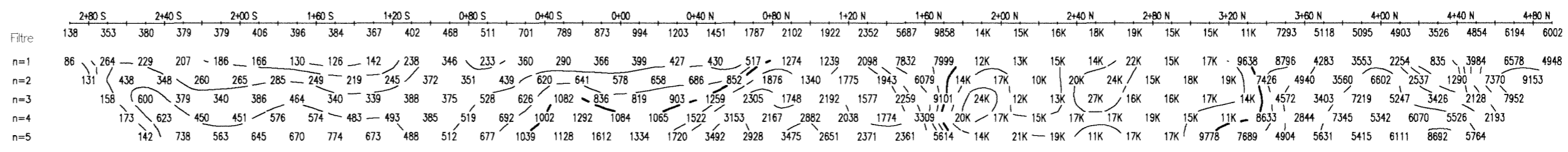
Facteur métal  
 (char \* 1000 / rés)

Chargeabilité  
 (milliVolts/Volt)



Chargeabilité  
 (milliVolts/Volt)

Résistivité  
 (ohms-mètres)



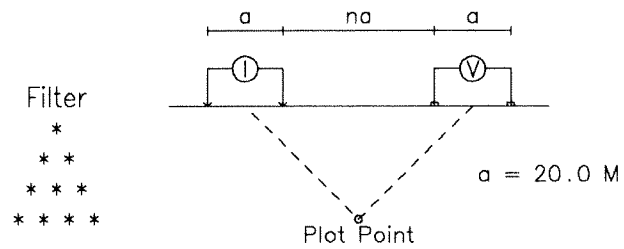
Résistivité  
 (ohms-mètres)

Ligne 1000.00 W



Ligne 1100.00 W

Dipole-Dipole

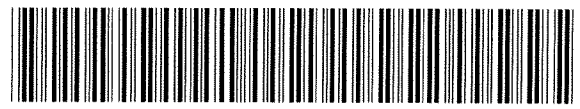


Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

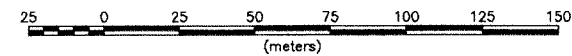
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



Scale 1:2500

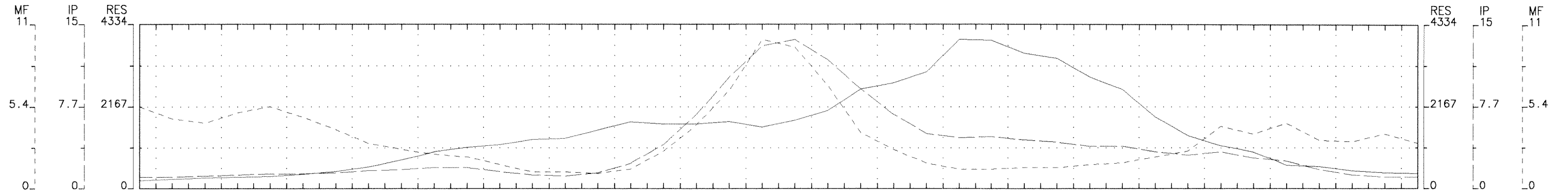


2.25765

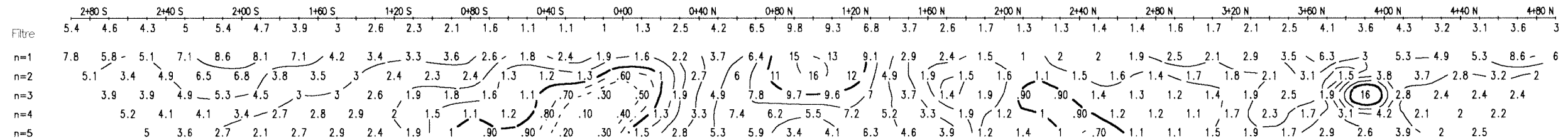
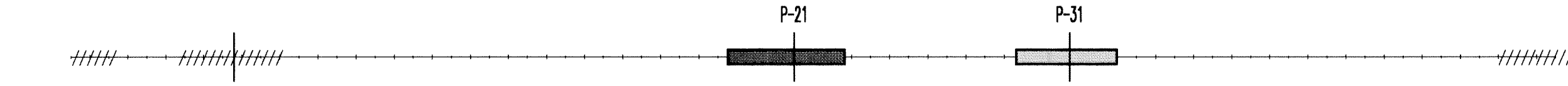
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/05/31  
Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-11

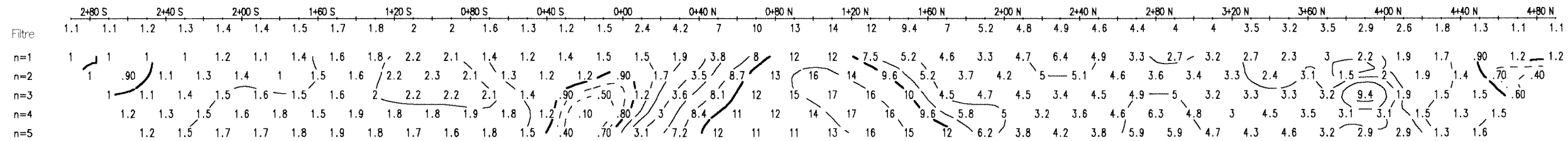


Facteur métal  
(char \* 1000 / rés)



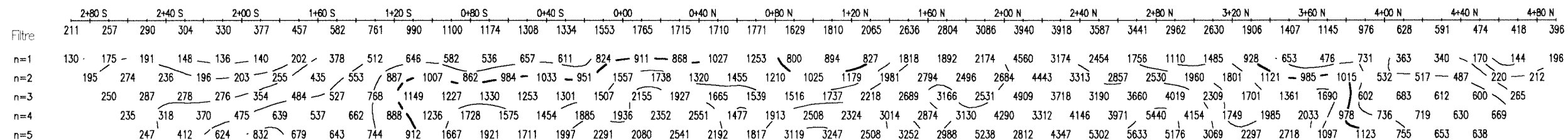
Facteur métal  
(char \* 1000 / rés)

Chargeabilité  
(milliVolts/Volt)



Chargeabilité  
(milliVolts/Volt)

Résistivité  
(ohms-mètres)



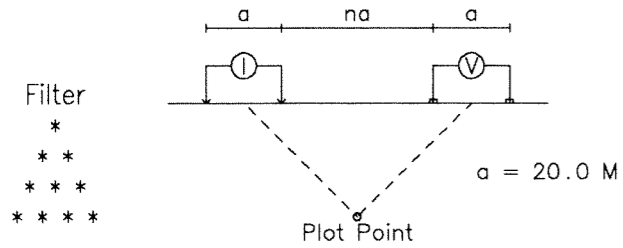
Résistivité  
(ohms-mètres)

Ligne 1100.00 W



Ligne 1200.00 W

Dipole-Dipole



Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

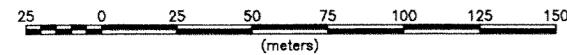
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



Scale 1:2500

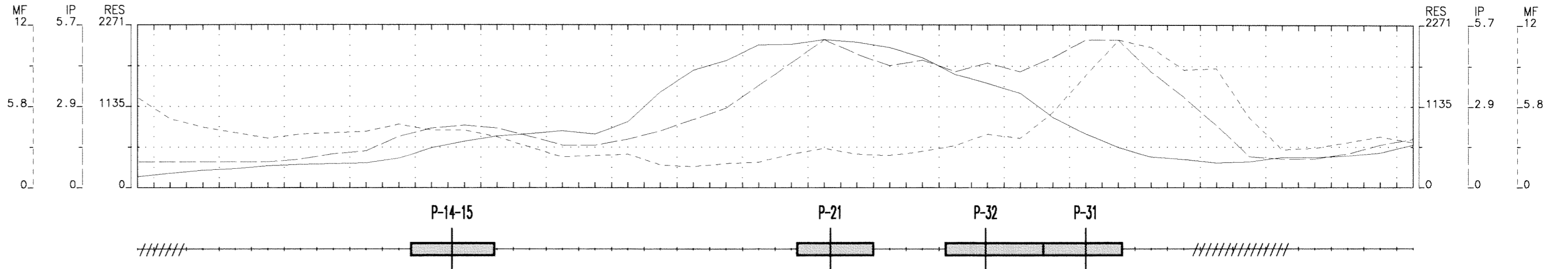


2.25765

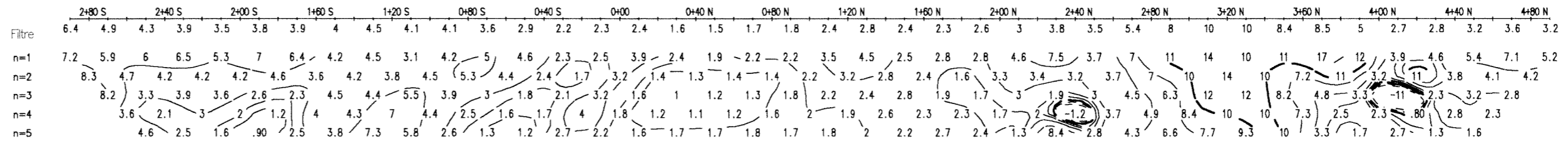
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/05/31  
Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-12

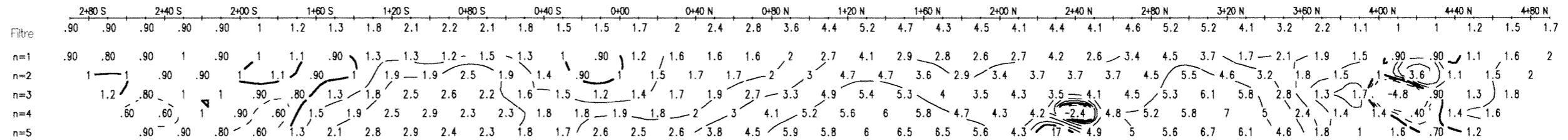


Facteur métal  
(char \* 1000 / rés)



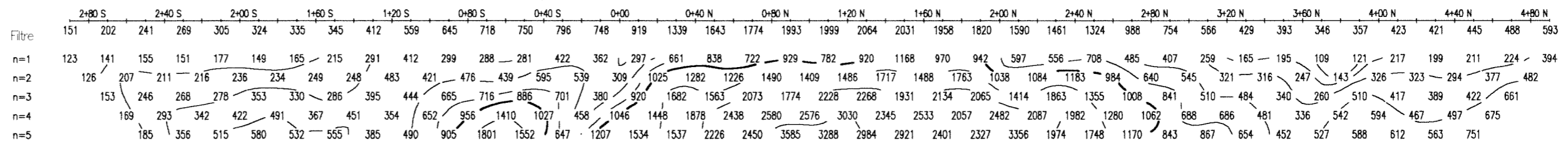
Facteur métal  
(char \* 1000 / rés)

Chargeabilité  
(milliVolts/Volt)



Chargeabilité  
(milliVolts/Volt)

Résistivité  
(ohms-mètres)

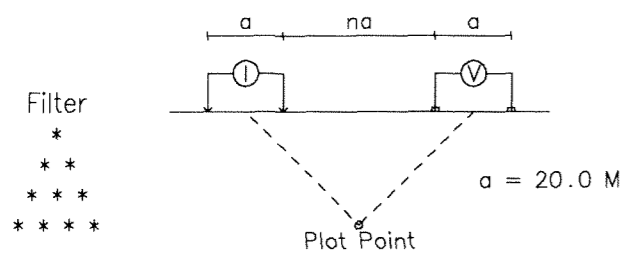


Résistivité  
(ohms-mètres)

Ligne 1200.00 W

Ligne 1300.00 W

Dipole-Dipole

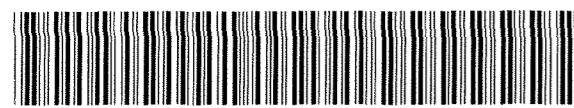


Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

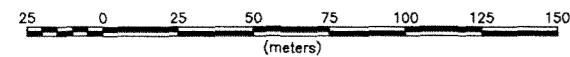
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



Scale 1:2500

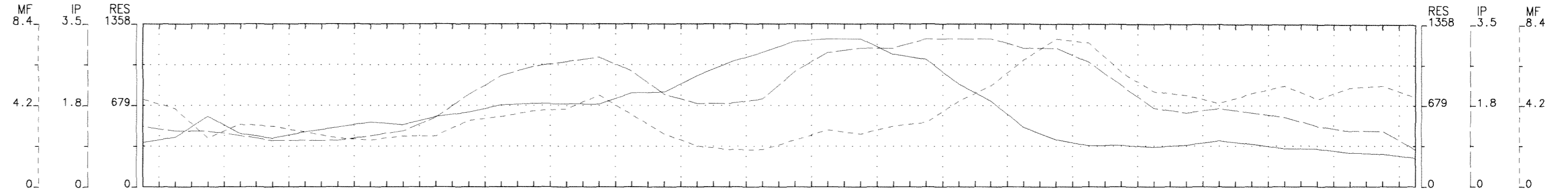


2.25765

CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/06/01  
Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-13



Facteur métal  
(char \* 1000 / rés)



2+80 S	2+40 S	2+00 S	1+60 S	1+20 S	0+80 S	0+40 S	0+00	0+40 N	0+80 N	1+20 N	1+60 N	2+00 N	2+40 N	2+80 N	3+20 N	3+60 N	4+00 N	4+40 N	4+80 N																				
4.5	4	2.5	3.2	3.1	2.8	2.5	2.4	2.6	2.6	3.4	3.6	3.9	4	4.7	3.7	2.7	2.1	1.9	1.9	2.4	2.9	2.7	3.1	3.3	4.4	5.2	6.5	7.6	7.4	5.9	4.9	4.7	4.3	4.8	5.2	4.5	5.1	5.2	4.6
5.9	6.8	2.7	5.3	5.2	5.1	5.1	4.5	4.3	2.9	4.2	4.2	4	3.8	6.5	5.1	3.4	2.7	3.4	2.5	3.4	5.4	3.6	4.7	4.5	6.1	5.3	5.4	5.8	4.7	3.5	3.7	5.4	4.7	6.5	8.6	6.4	9.6	9.3	7.9
5.5	1.1	.90	3.9	3.5	3.2	2.6	2.6	2.2	2.9	3.7	4.1	4.3	5.7	5.2	2.5	2.3	1.3	1.7	2.7	3.1	3.4	2.8	3.4	3.5	4.3	4.8	6.4	8.2	6.1	3	4.9	4.2	5.3	7.3	6.2	5.9	6.7	9.8	
1.3	3.5	2.8	2.9	2.3	1.8	1.6	1.6	3.4	2.6	3.6	3.7	5.7	4.4	4	2.8	1.6	.90	2.3	1.7	2.2	3	2.4	3	2.7	5	6.5	9.8	10	7.1	4.7	4.1	4.2	4.6	4.8	4.5	3.9	4		
3.9	2.5	2.1	1.9	1.3	1.9	.50	2.5	3.4	2.9	3.4	4.5	3.8	3.6	3.3	1.7	1.2	1.6	1.5	1.7	2	2.7	2.3	2.5	3.1	7.7	8.5	9.5	8	6.7	4.6	4.1	4.2	3.2	3.9	5.4	3.6			
5.8	2.6	1.5	1.1	0	.70	2.4	2.6	4.1	2.9	2.9	2.8	3	3.3	2.7	1.5	2.1	1.1	1.5	1.9	1.9	2.6	2.1	3.1	5.3	10	8.5	7.7	6.7	6.4	4.8	1.7	3.1	3.2	2.6	2.4				

Facteur métal  
(char \* 1000 / rés)

Chargeabilité  
(milliVolts/Volt)

2+80 S	2+40 S	2+00 S	1+60 S	1+20 S	0+80 S	0+40 S	0+00	0+40 N	0+80 N	1+20 N	1+60 N	2+00 N	2+40 N	2+80 N	3+20 N	3+60 N	4+00 N	4+40 N	4+80 N																				
1.3	1.2	1.2	1.1	1	1	1	1.1	1.2	1.5	2	2.4	2.6	2.7	2.8	2.5	2	1.8	1.8	1.9	2.5	2.9	3	3	3.2	3.2	3	3	2.7	2.2	1.7	1.6	1.7	1.6	1.5	1.3	1.2	1.2	.80	
1	1	1.5	.90	1	1.1	1.1	1.3	1.2	1.1	1.4	1.7	1.5	1.4	1.8	1.6	1	1.2	1.5	1.1	1.9	2.3	2.5	2.3	2.4	2.6	2.6	1.6	1.5	1.1	1.1	1	1.4	1.5	1.7	1.6	1.5	1.4	1.4	1.5
1	1	.90	1	1	1.1	1.1	.80	1.6	2.2	2.5	2.3	2.6	2.5	1.7	1.2	1.1	1.2	1.9	2.6	3	2.3	3	2.9	2.8	2.6	2.2	2	1.3	.70	1.3	1.8	2.1	2	1.6	1.4	1.4	1.6		
1	1.2	1.1	1.1	.90	1	.90	.80	1.6	2.1	2.6	2.6	3.5	3.1	2.7	2.2	1.3	1	2.1	2.6	3	2.9	3.1	3.5	3	2.7	3.3	3.3	2	1.2	1.6	2	1.8	1.5	1.4	1.3	.80			
1.3	1	1.1	.90	.90	1.3	.30	1.5	2.1	2.7	2.7	3.5	3.5	3.3	3.2	2.1	1.1	2	2.8	3.2	2.9	3.7	3.5	3.7	2.9	3.5	4.1	4.3	3.6	2.2	1.5	1.6	1.7	1.3	1.4	2.2	1.1			
2.2	1.4	1	.90	0	.60	1.8	2	2.9	2.9	2.6	3.2	3.4	4.2	3.7	2.2	2.3	2.7	3.4	3.2	3.8	4.1	3.7	3.5	3.8	4.4	5.2	4.8	3.4	2.7	1.6	.60	1.3	1.4	1.2	.90				

Chargeabilité  
(milliVolts/Volt)

Résistivité  
(ohms-mètres)

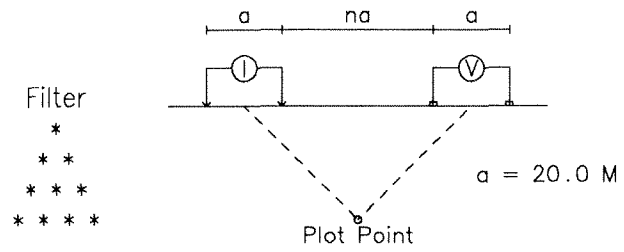
2+80 S	2+40 S	2+00 S	1+60 S	1+20 S	0+80 S	0+40 S	0+00	0+40 N	0+80 N	1+20 N	1+60 N	2+00 N	2+40 N	2+80 N	3+20 N	3+60 N	4+00 N	4+40 N	4+80 N																				
370	413	589	442	404	455	495	539	517	586	622	681	693	691	689	783	793	926	1036	1119	1216	1234	1234	1104	1061	859	713	496	394	344	346	328	346	383	355	317	314	284	272	240
173	143	575	181	190	209	216	288	275	393	337	405	390	357	276	322	306	443	435	442	563	432	714	487	534	430	496	301	256	231	327	265	257	325	267	188	227	147	149	185
190	880	1002	265	288	311	422	416	365	534	574	596	544	449	473	677	537	846	713	711	823	907	833	875	817	633	545	336	246	219	246	260	418	394	278	257	230	213	169	
783	332	381	400	393	552	557	512	467	791	722	694	614	705	664	773	778	1037	936	1541	1370	948	1282	1142	1131	545	499	340	316	279	254	383	468	381	321	312	325	201		
324	409	506	486	683	703	644	589	619	933	811	760	911	921	962	1270	970	1248	1858	1892	1404	1378	1504	1447	933	460	481	446	453	326	340	387	413	403	363	415	292			
382	542	621	832	840	786	733	776	712	996	885	1134	1148	1243	1371	1542	1102	2349	2201	1696	1976	1560	1759	1119	709	434	609	616	509	425	333	324	413	431	453	355				

Résistivité  
(ohms-mètres)

Ligne 1300.00 W

Ligne 1400.00 W

Dipole-Dipole

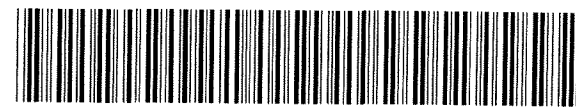


Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

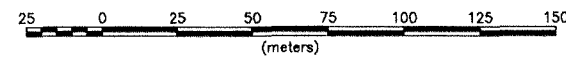
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



Scale 1:2500

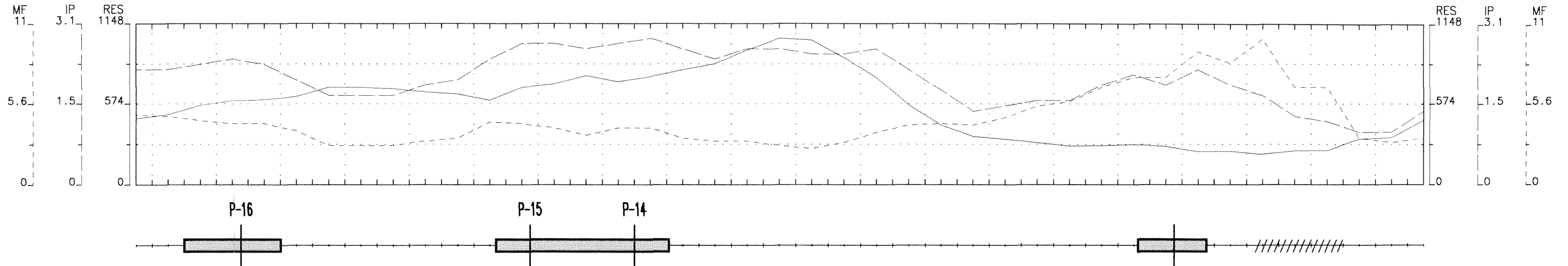


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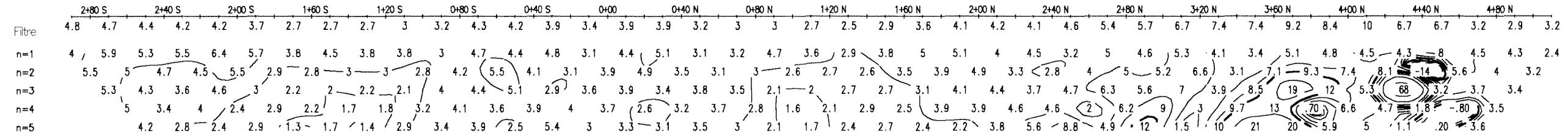
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/05/31  
Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-14

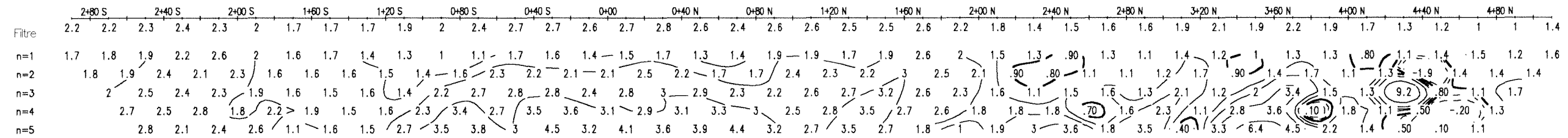


Facteur métal  
(char \* 1000 / rés)



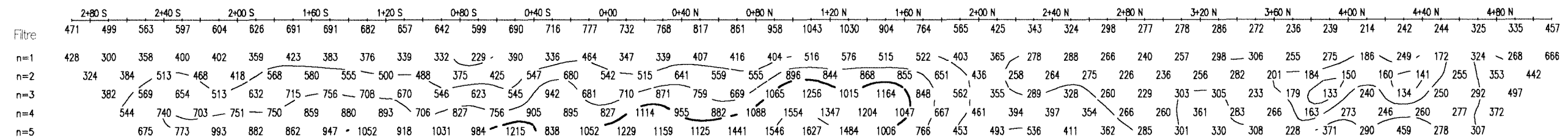
Facteur métal  
(char \* 1000 / rés)

Chargeabilité  
(milliVolts/Volt)



Chargeabilité  
(milliVolts/Volt)

Résistivité  
(ohms-mètres)

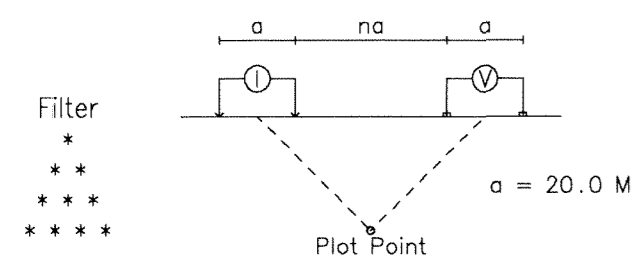


Résistivité  
(ohms-mètres)

Ligne 1400.00 W

Ligne 1500.00 W

Dipole-Dipole

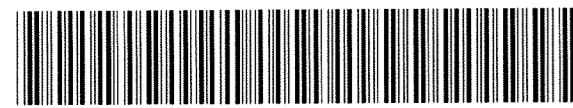


Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

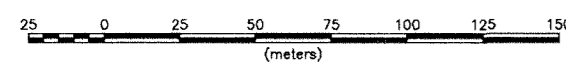
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



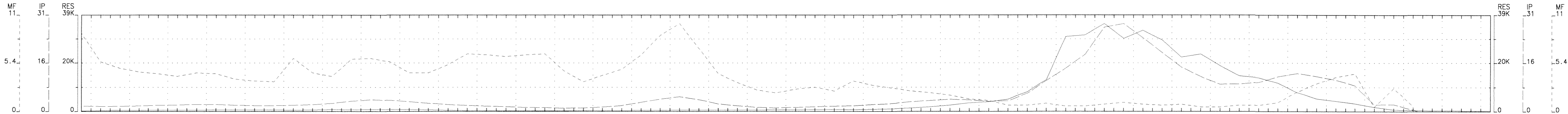
Scale 1:2500



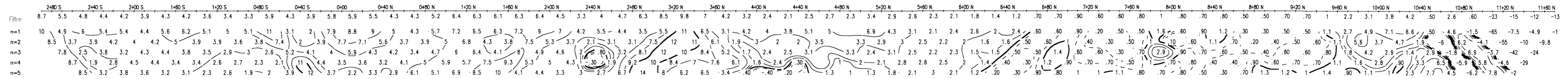
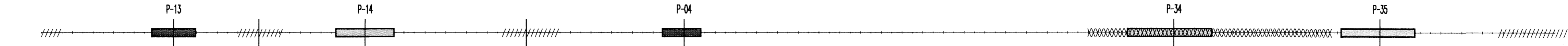
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/06/01  
Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-15

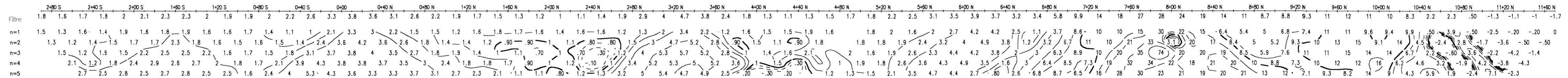


Facteur métal  
(char \* 1000 / rés)



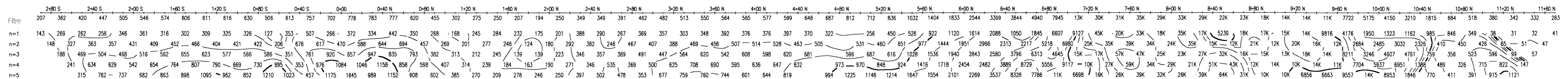
Facteur métal  
(char \* 1000 / rés)

Chargeabilité  
(milliVolts/volt)



Chargeabilité  
(milliVolts/volt)

Résistivité  
(ohms-mètres)

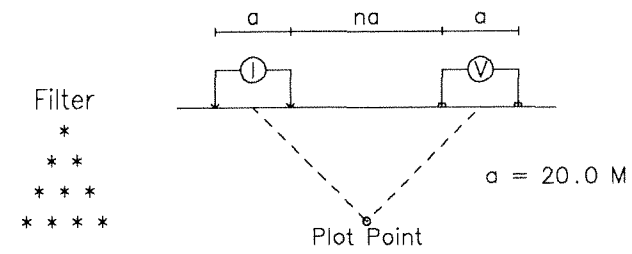


Résistivité  
(ohms-mètres)

Ligne 1500.00 W

# Ligne 1600.00 W

## Dipole-Dipole



Operator : J. Crépeau  
 Receiver : IP-6, BRGM  
 Transmitter : GDD 1400  
 Generator : 1.4 kW

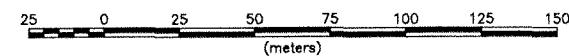
Logarithmic Contours  
 1, 1.5, 2, 3, 5, 7.5, 10

### INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



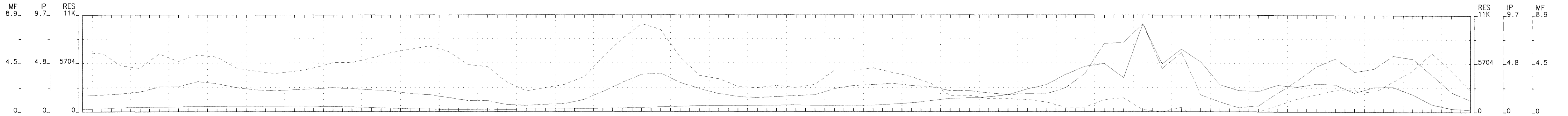
Scale 1:2500



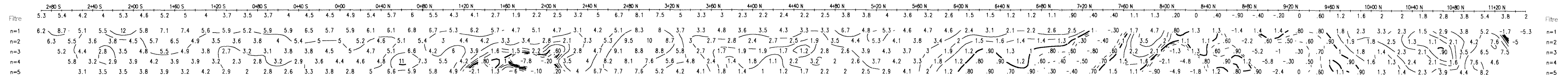
**CANADIAN ROYALTIES INC.**  
**INDUCED POLARIZATION SURVEY**  
**HIGHWAY PROSPECT**  
**Beatty Township Ont.**

Date: 03/06/01  
 Interpretation: Clermont Lavoie Ph.D.

GEOLA LTEE 228-16

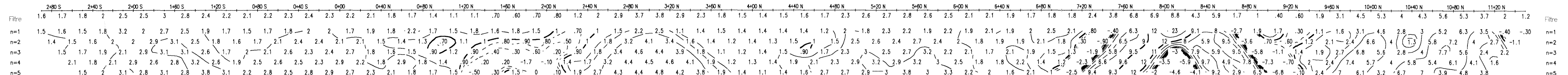


Facteur métal  
 (char \* 1000 / rés)



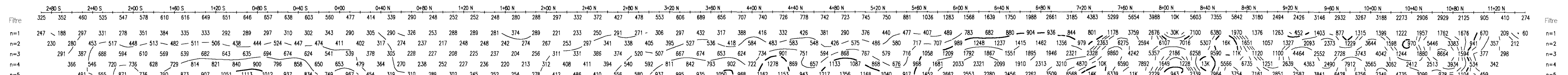
Facteur métal  
 (char \* 1000 / rés)

Chargeabilité  
 (milliVolts/Volt)



Chargeabilité  
 (milliVolts/Volt)

Résistivité  
 (ohms-mètres)

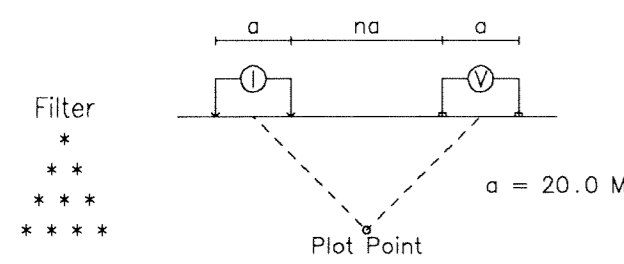


Résistivité  
 (ohms-mètres)



Ligne 1700.00 W

Dipole-Dipole

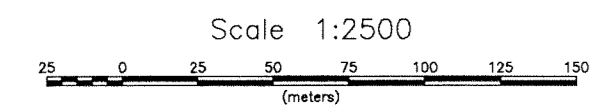


Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

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

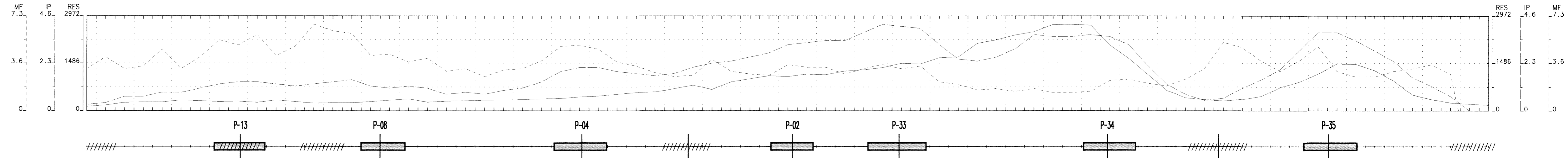
INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.

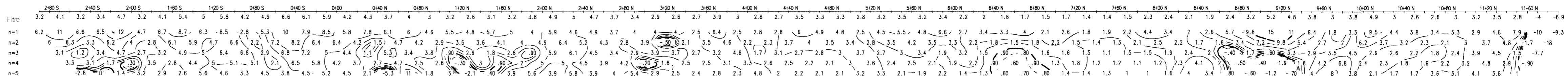


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CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.  
Date: 03/06/01  
Interpretation: Clermont Lavoie Ph.D.  
GEOLA LTEE 228-17

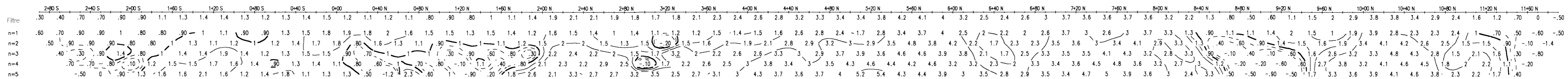


Facteur métal (char \* 1000 / rés)



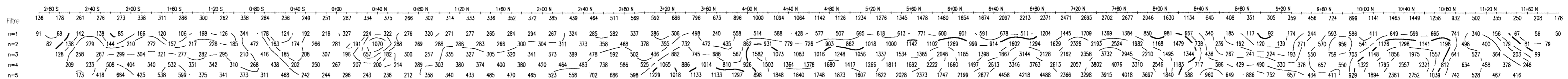
Facteur métal (char \* 1000 / rés)

Chargeabilité (milliVolts/Volt)



Chargeabilité (milliVolts/Volt)

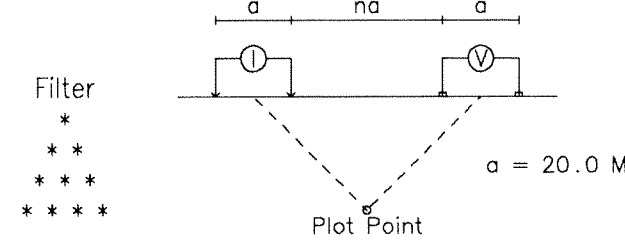
Résistivité (ohms-mètres)



Résistivité (ohms-mètres)

Ligne 1800.00 W

Dipole-Dipole



Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

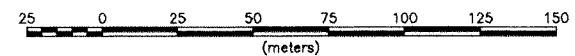
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



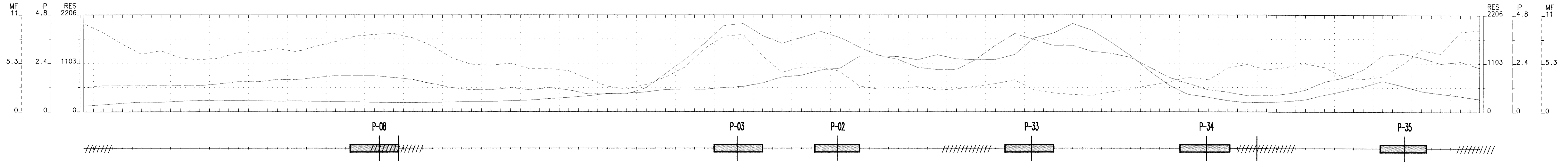
Scale 1:2500



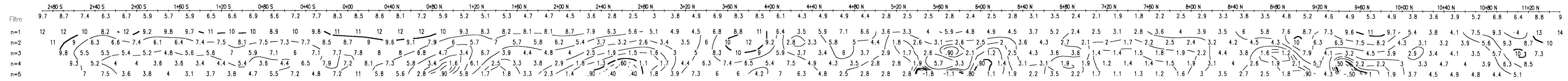
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/06/01  
Interpretation: Clermont Lavoie Ph.D.

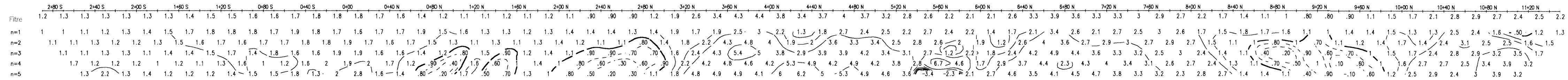
GEOLA LTEE 228-18



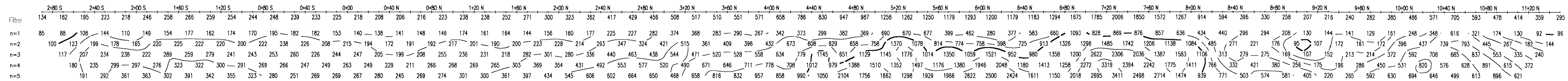
Facteur métal  
(char \* 1000 / rés)



Chargeabilité  
(milliVolts/Volt)



Résistivité  
(ohms-mètres)



Facteur métal  
(char \* 1000 / rés)

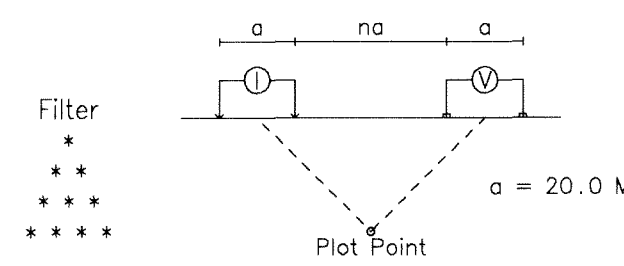
Chargeabilité  
(milliVolts/Volt)

Résistivité  
(ohms-mètres)

Ligne 1800.00 W

Ligne 1900.00 W

Dipole-Dipole

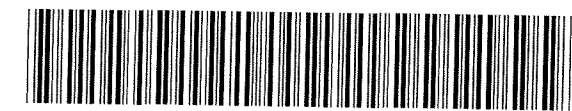


Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

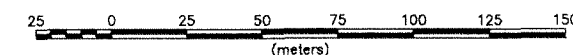
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.

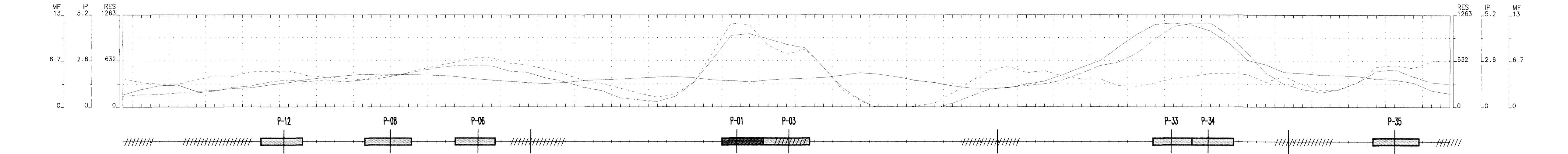


Scale 1:2500



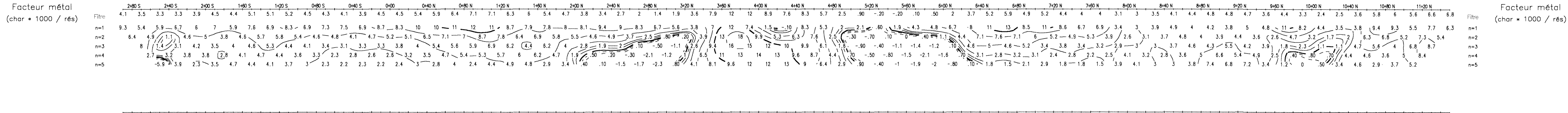
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/06/01  
Interpretation: Clermont Lavoie Ph.D.  
GEOLA LTEE 228-19



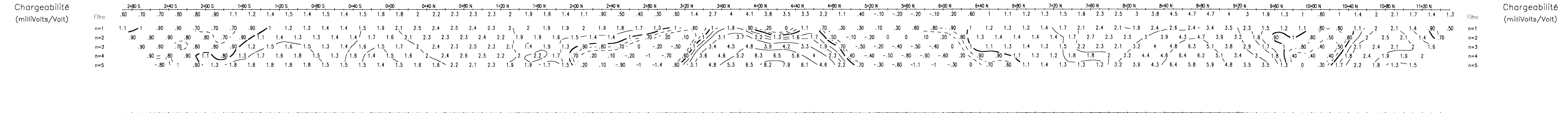
Facteur métal  
(char \* 1000 / rés)

Facteur métal  
(char \* 1000 / rés)



Chargeabilité  
(milliVolts/Volt)

Chargeabilité  
(milliVolts/Volt)



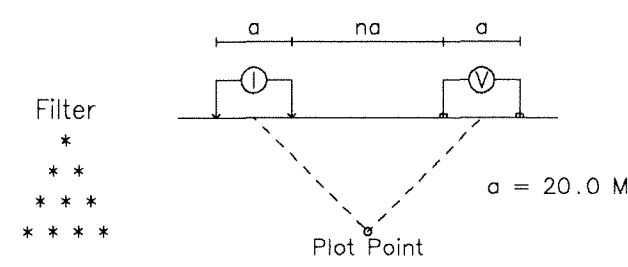
Résistivité  
(ohms-mètres)

Résistivité  
(ohms-mètres)



Ligne 2000.00 W

Dipole-Dipole

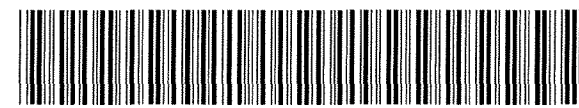


Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

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

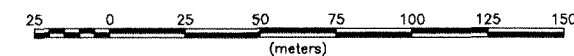
INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



42A09SW2019 2.25765 BEATTY 470

Scale 1:2500

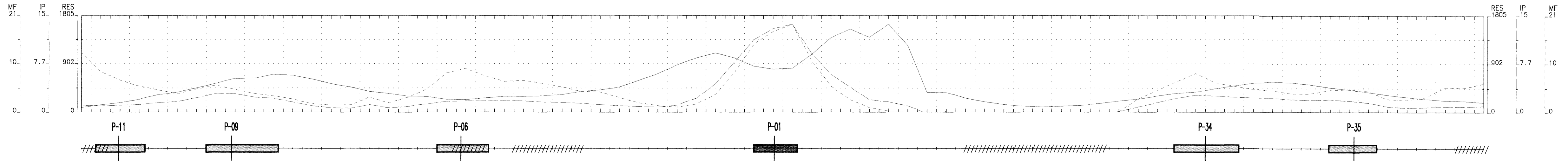


2.25765

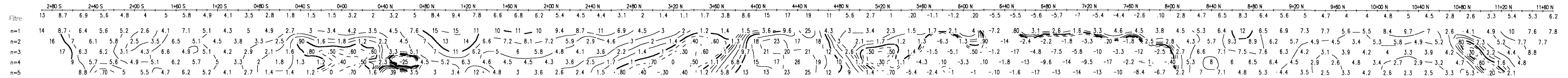
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/06/01  
Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-20

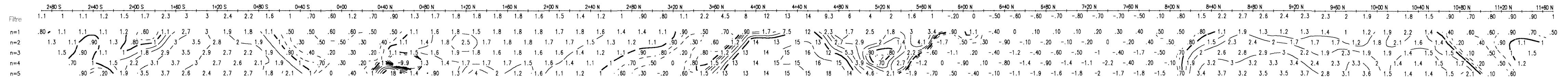


Facteur métal  
(char \* 1000 / rés)



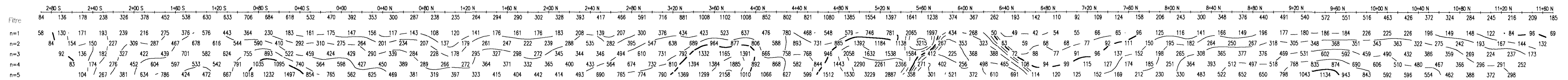
Facteur métal  
(char \* 1000 / rés)

Chargeabilité  
(millivolts/Volt)



Chargeabilité  
(millivolts/Volt)

Résistivité  
(ohms-mètres)

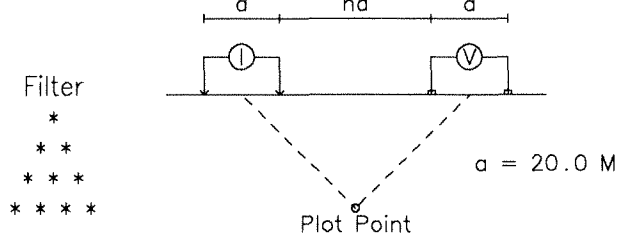


Résistivité  
(ohms-mètres)

Ligne 2000.00 W

Ligne 2100.00 W

Dipole-Dipole

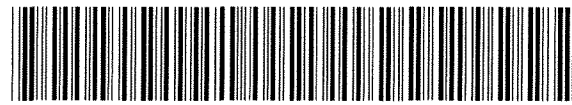


Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

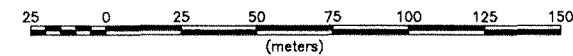
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10

INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



Scale 1:2500

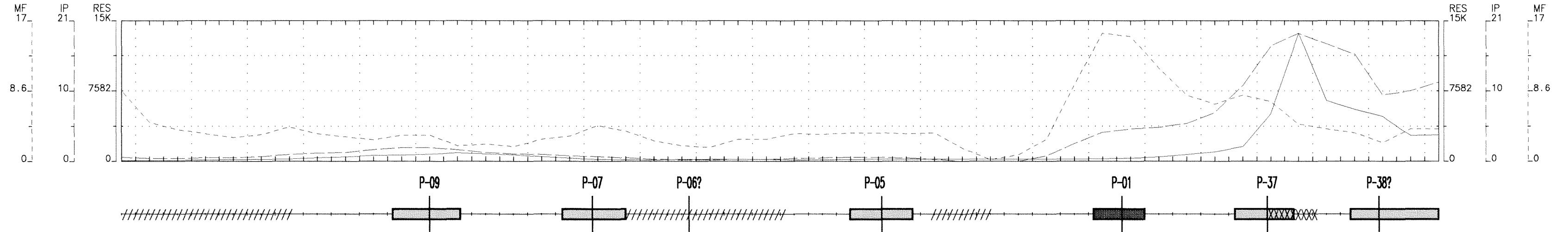


2.25765

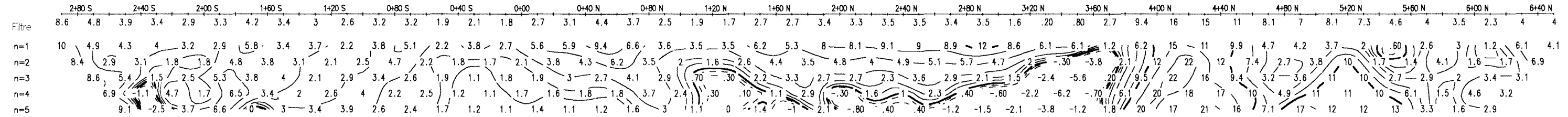
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/06/01  
Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-21

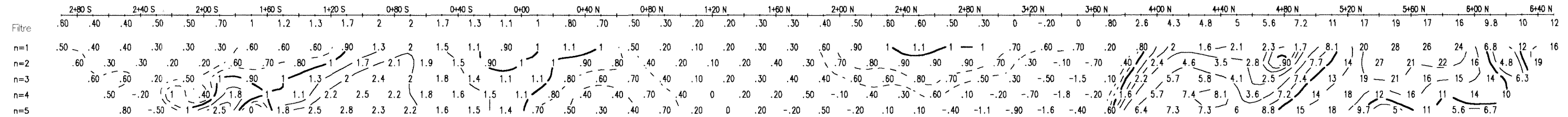


Facteur métal  
(char \* 1000 / rés)



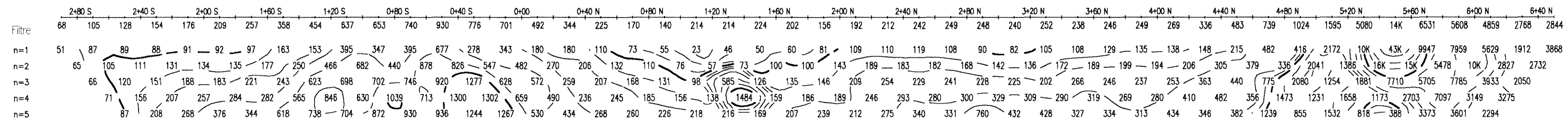
Facteur métal  
(char \* 1000 / rés)

Chargeabilité  
(milliVolts/Volt)



Chargeabilité  
(milliVolts/Volt)

Résistivité  
(ohms-mètres)

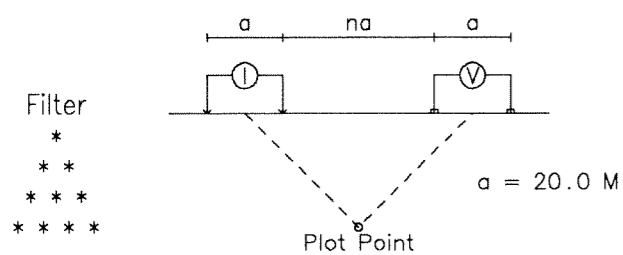


Résistivité  
(ohms-mètres)

Ligne 2100.00 W

Ligne 2200.00 W

Dipole-Dipole

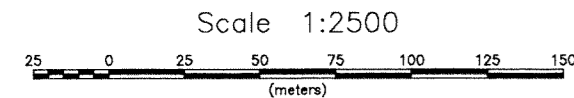


Operator : J. Crépeau  
Receiver : IP-6, BRGM  
Transmitter : GDD 1400  
Generator : 1.4 kW

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

INTERPRETATION

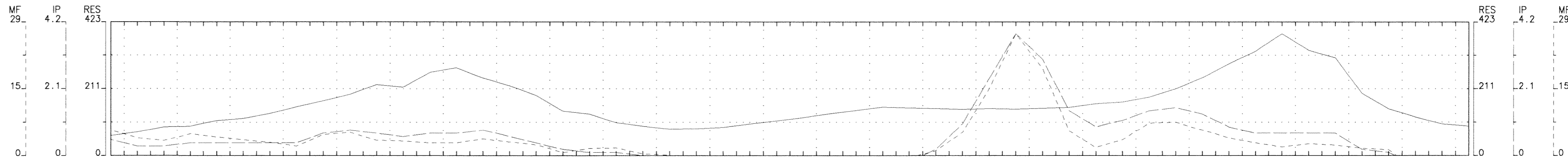
- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



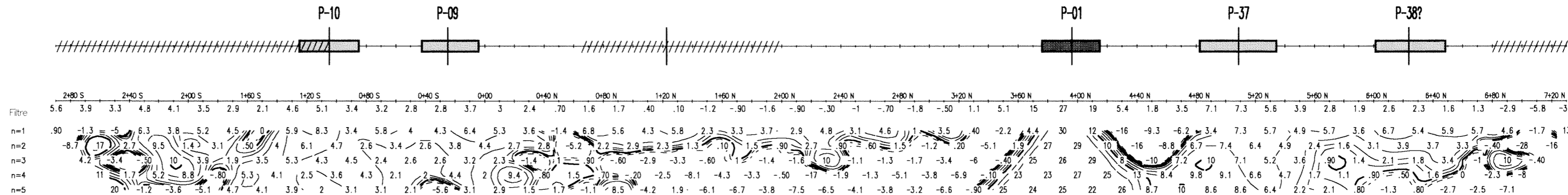
CANADIAN ROYALTIES INC.  
INDUCED POLARIZATION SURVEY  
HIGHWAY PROSPECT  
Beatty Township Ont.

Date: 03/06/01  
Interpretation: Clermont Lavoie Ph.D

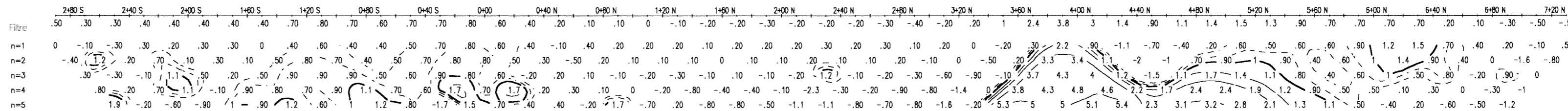
GEOLA LTEE 228-22



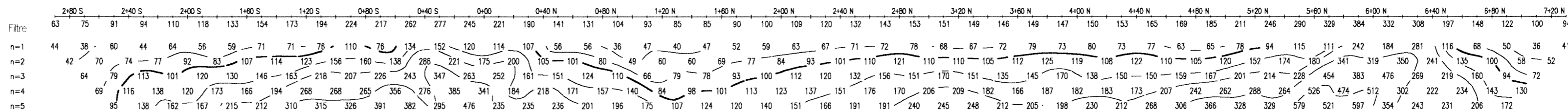
Facteur métal  
(char \* 1000 / rés)



Chargeabilité  
(millivolts/Volt)



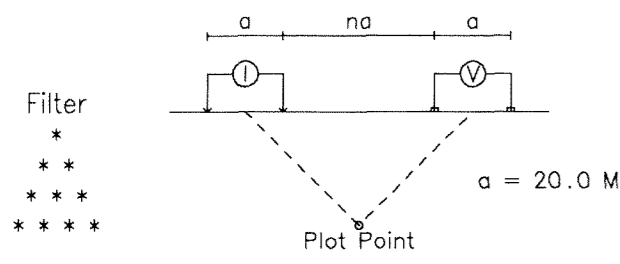
Résistivité  
(ohms-mètres)



Ligne 2200.00 W

Ligne 2300.00 W

Dipole-Dipole



Operator : J. Crépeau  
 Receiver : IP-6, BRGM  
 Transmitter : GDD 1400  
 Generator : 1.4 kW

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

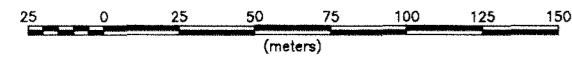
INTERPRETATION

- Induced polarization anomaly.
- Resistivity low.
- Resistivity high.



500

Scale 1:2500

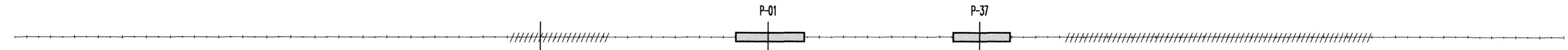
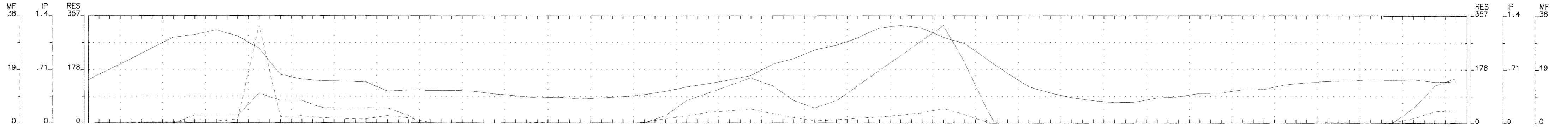


2.25765

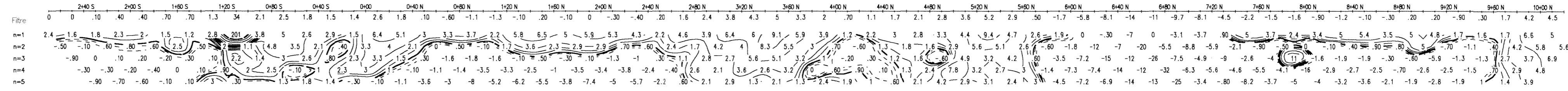
CANADIAN ROYALTIES INC.  
 INDUCED POLARIZATION SURVEY  
 HIGHWAY PROSPECT  
 Beatty Township Ont.

Date: 03/06/01  
 Interpretation: Clermont Lavoie Ph.D

GEOLA LTEE 228-23

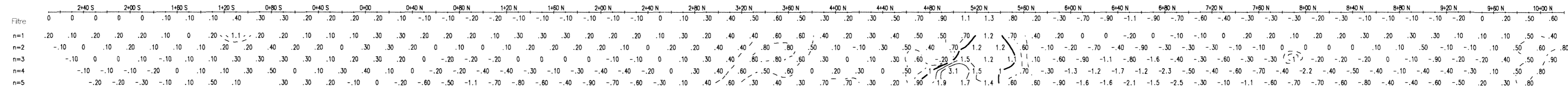


Facteur métal  
(char \* 1000 / rés)



Facteur métal  
(char \* 1000 / rés)

Chargeabilité  
(milliVolts/Volt)



Chargeabilité  
(milliVolts/Volt)

Résistivité  
(ohms-mètres)

