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A REPORT ON GEOPHYSICAL WORK (INDUCED POLARIZATION SURVEY)

performed on the

WELSH STANWICK PROJECT

District of Matachewan

submitted to

SEDEX MINING CORPORATION

Kirkland Lake, Ontario

96-N125 December 1996

SUMMARY

From November 18 to 21, 1996, an induced polarization and resistivity (IP) survey (9,3 line-kilometres) was performed on behalf of SEDEX MINING CORPORATION over the WELSH STANWICK PROPERTY located in Powell Township, in Northern Ontario.

The IP survey detected 10 polarization axes mostly associated with bedrock uplifts (outcropping areas) However, three of these axes likely represent disseminated mineralization and could constitute drilling targets.

2.17203

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

APPENDICES

Attached to this report :

Pseudosections :

Dipole-dipole pseudosections (10) of the apparent resistivity, apparent chargeability and metal factor (scale 1:2500).

Inside a plastic jacket (scale 1:5000) :

Maps :

96-N125-4.0 Geophysical interpretation
96-N126-4.2 Contours and readings of the apparent resistivity (Fraser filter values)
96-N126-4.3 Contours and readings of the apparent chargeability (Fraser filter values)

Colour copy submitted separately :

Pseudosections :

Dipole-dipole pseudosections (10) of the apparent resistivity, apparent chargeability and metal factor (scale 1:2500).

Maps (scale 1:5000) :

96N-126-4.2c: Contours of the apparent resistivity (Fraser filter)

96N-126-4.3c: Contours of the apparent chargeability (Fraser filter)

1. INTRODUCTION

At the request of Mr. Tom Obradovich, of SEDEX MINING CORPORATION, VAL D'OR SAGAX INC. has performed an induced polarization survey over the WELSH STANWICK PROJECT located 6 kilometres north-east of Kirkland Lake, Ontario (NTS 41P/15). Field work was completed by Mr. Jean Meunier from November 18 to 21, 1996. A total of 9,3 line-kilometres were covered by the IP survey (see also section 3.1). The general purpose of this survey was to detect the presence of gold-bearing mineralization or structure.

After a brief description of the method employed, we discussed the results obtained and attempt to interpret them in light of the available geoscientific information. Based on this information, we established what further work, if any, should be performed.

2. THE WELSH STANWICK PROPERTY

2.1 Location and access

The Welsh Stanwick Property is located 6 kilometres, as the crow flies, north-east of Matachewan, Ontario (Figure 1). The property is accessible from Matachewan by using Highway117 in direction of Rouyn-Noranda for about 10 kilometres up to the junction to an old mine road which runs west of the highway. From there, several gravel roads give an excellent access to the different parts of the present survey area (see also section 2.3).

2.2 Description

The Welsh Stanwick Project consists of 28 mining claims located in the eastern part of the Powell Township (Figure 2). A total of 17 claims were totally or partially surveyed (Figure 3).

2.3 Survey grid

Along the baseline (TL 8+75N), a total of 10 survey lines striking N 150° were covered every 100 or 200 metres from L14+00W to L2+00W (Figure 3). All survey lines have different coverages for a total of 9,3 kilometres.

Figure 1: General localisation

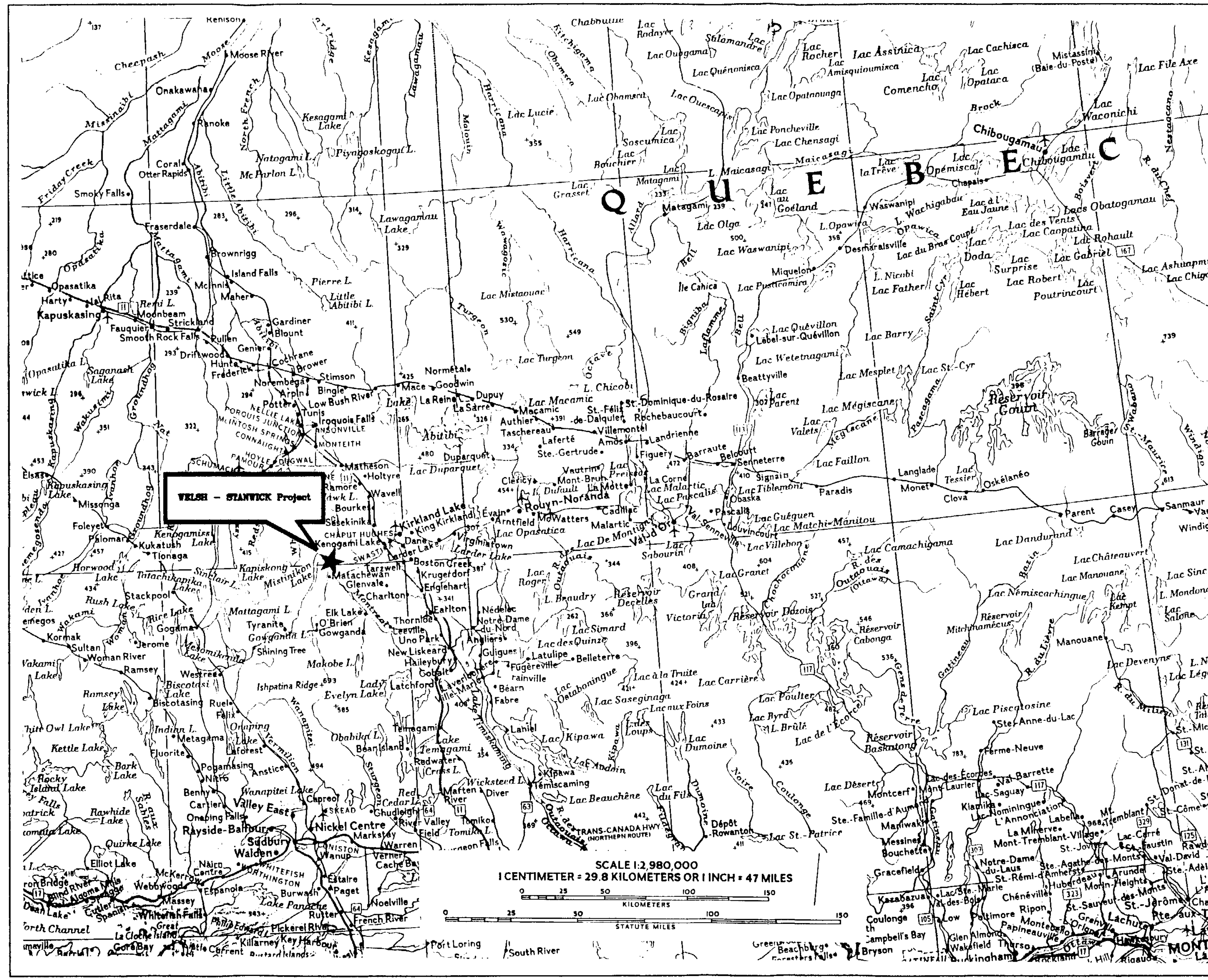


Figure 2: Index of claims

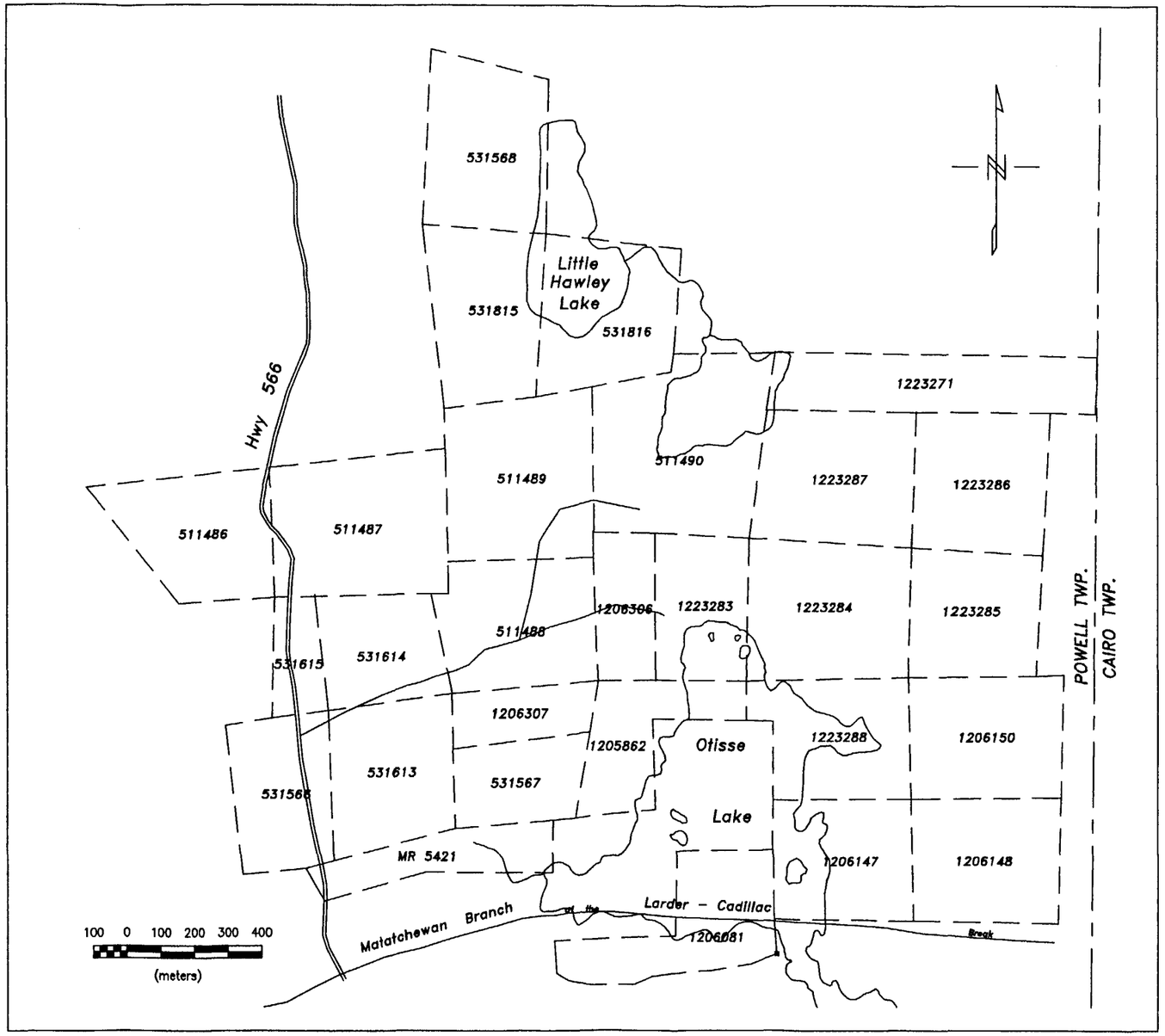
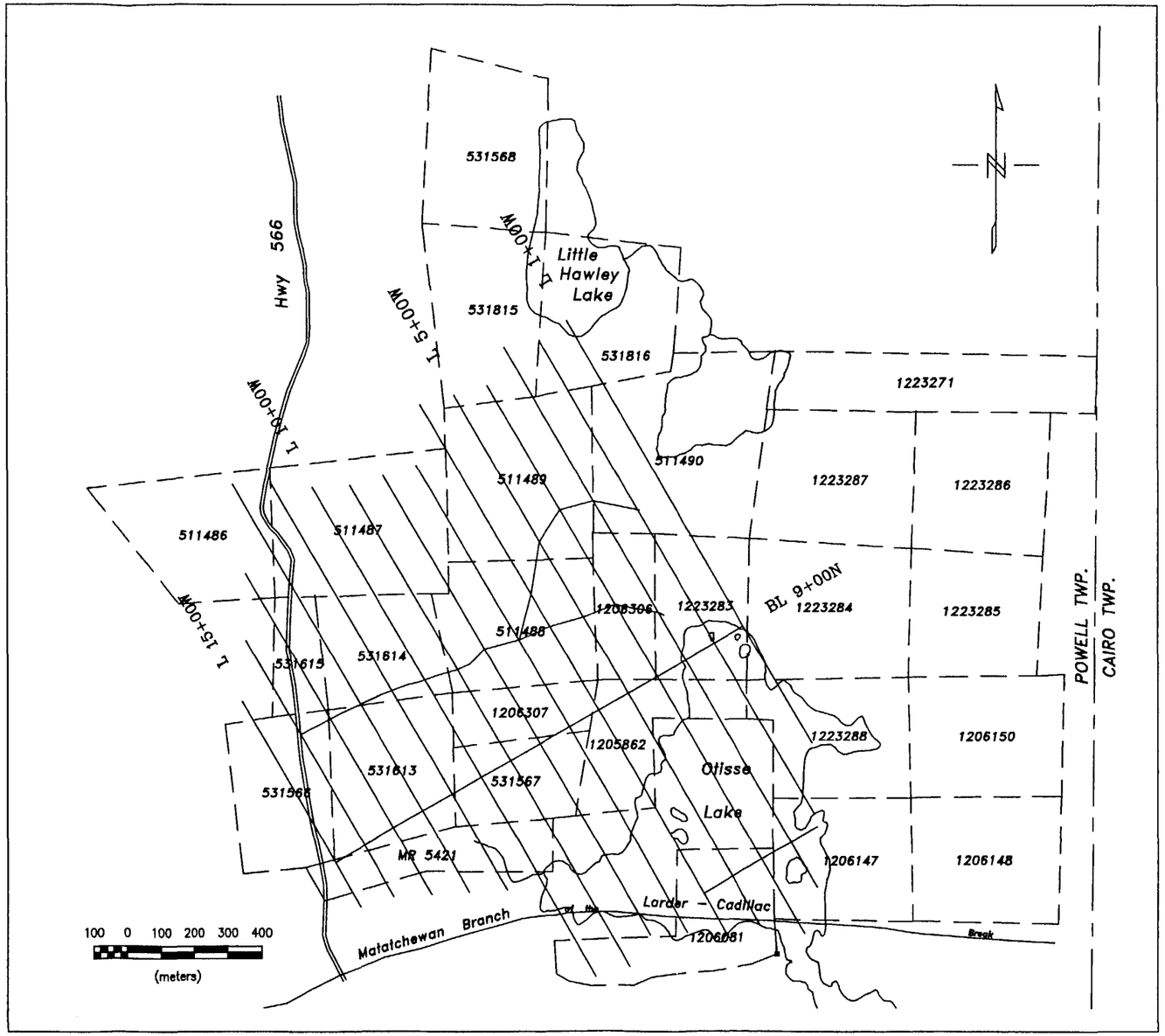


Figure 3: Index of claims and survey area



3. TECHNICAL SPECIFICATIONS OF THE IP SURVEY

3.1 Electrode array

The dipole-dipole array (Figure 4) was used for the investigation of all ten survey lines performed over the Welsh Stanwick Project. The nominal spacing *a* between the electrodes was set at 25 metres and separation factor *n* between dipoles ranged from 1 to 5.

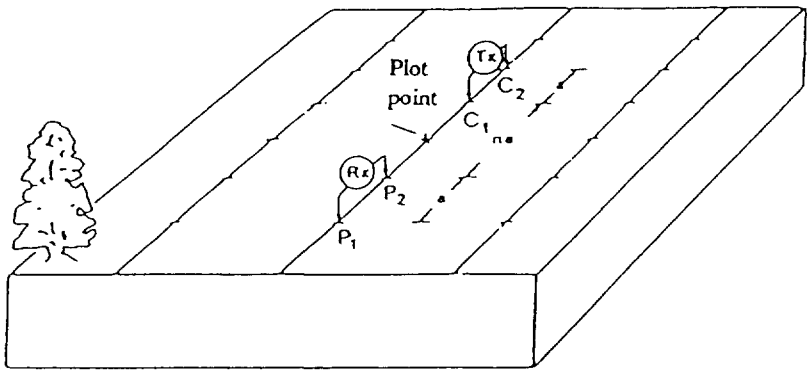


Figure 4: The dipole-dipole array

3.2 Equipment

The induced polarization equipment employed consisted of a transmitting device as well as a receiving device, both working in pulse current mode. A Phoenix Geophysics Ltd. model IPT-1 transmitter, powered by a motor generator capable of supplying 2 kW of continuous power, was used to provide a stable current. Stainless steel electrodes were used to transmit current. The transmitted current was a bipolar on-off (50% duty cycle) square wave (Figure 5).

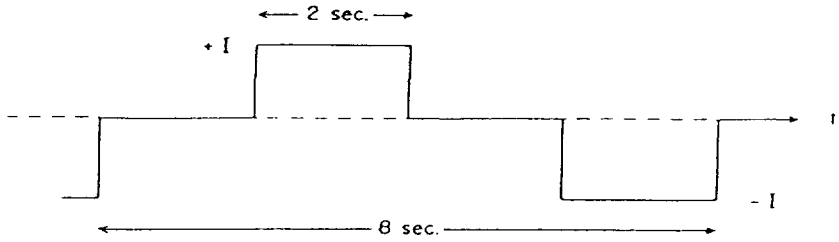


Figure 5: The transmitted signal at C_1-C_2

Primary voltage V_p and the apparent resistivity were measured using an ELREC-6 receiver from Iris Instruments. The integration of the transient voltage current shut-off was performed in ten gates of 160 ms (Figure 6).

Parameters M_1 to M_{10} are automatically normalized with respect to a Standard Newmont curve, where the voltage decrease is due to pure electrode polarization. Any parasitic effect on the received signal can then be detected and filtered out using the deviation from the norm of the values of M_1 to M_{10} read at the receiver. Stainless steel electrodes were used for the receiving dipole.

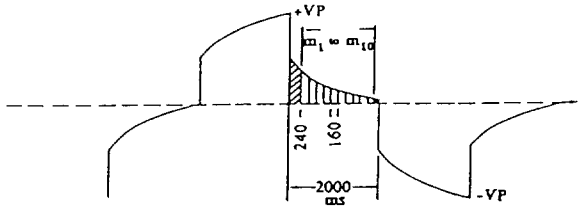


Figure 6: The signal integration windows at P_1-P_2

3.3 IP survey parameter calculations

Apparent resistivity was determined using the following equation:

$$\rho_a = \pi \cdot \frac{V_p}{I} \cdot n\,(n+1) \cdot (n+2) \cdot a \quad (in\ \Omega \cdot m)$$

Where a = dipole length (25 m)
n = dipole separation factor
V_p = primary voltage (mV)
I = injected current (mA)

Chargeability M is the average of the ten normalized windows, expressed in mV/V.

The metal factor is calculated with the following equation:

$$FM = \frac{1000 \cdot M}{\sqrt{\rho_a}}$$

The Fraser filter used consisted of an equal weight of fifteen data point triangle.

3.4 Quality Control

The appparent resistivity is essentially that of the analog current *I* readout and the nominal spacing *a* between the electrodes, approximately 5% in all.

Final chargeability measurements (M_1 to M_{10}) represent the average of 6 to 10 measuring cycles. However, the difference between the ten normalized windows is the best indicator of the quality and the purity of a chargeability reading. Hence, if parasitic signal such as telluric noise and electromagnetic coupling are encountered, the repeatability and the stability of an induced polarization measurement (chargeability, frequency effect, or phase angle) do not necessarily mean quality, because these parasitic signals are periodic and affect each measurement in a similar fashion. Normalization enables us to compare precisely and *in situ* the shape of the voltage curve with that of a curve caused by a pure electrode polarization effect.

Due to the presence of wide area of sandy overburden, the contact resistances measured at the electrodes with the dipole-dipole array were locally very high (1 to 30 kΩ·m) which resulted in low transmitted current and subsequently in low signal measured at the potential dipoles.

The characteristics of the IP measured parameters are summarized in Table 1.

Table 1: Characteristics of the IP measured parameters

Injected current	60 to 1500 mA
Measured voltage (n = 5)	5 to 50 mV
Accuracy of apparent resistivity measurements	5%
Accuracy of apparent chargeability measurements (n = 5)	2 to 5 mV/V
Contact resistance	1 to 15 kΩ·m

4. DISCUSSION OF SURVEY RESULTS

4.1 Data presentation

The results of the induced polarization survey are presented in the form of interpreted pseudosections of the apparent resistivity, the apparent chargeability and the metal factor at a scale of 1:2500. The results are also presented in the form of contour maps at a scale of 1:5000, using the Fraser filter values of resistivity and chargeability (96-N126-4.2 and 96-N126-4.3). One copy of the colour contour maps is submitted separately as well as one set of colour IP pseudosections.

4.2 Analysis of survey results

A first overview of the contour map of the apparent resistivity and chargeability over the eastern area of the survey reveals the presence of a very resistive area oriented NW–SE including several IP axes (labelled from IP–01 to IP–10). In general, the anomalous signature observed is more typical of the one induced by a bedrock up–lift (outcropping area). However, three major polarizable axes are recognized on the present survey grid, (labelled IP–02, IP–04 and IP–06) and likely represent favourable IP targets. Very weak isolated anomalies were also identified but not labelled.

The determination of the physical characteristics of the induced polarization anomalies was established and summarized in Table 2, next page.

Table 2: Physical characteristics of the induced polarization anomalies of the Welsh Stanwick Property

Name	Localisation		Contrast of		Remarks and Recommendations	Priority
	Lines	Stations	Chargeability	Resistivity		
IP-01	L14+00W	14+50N	2	+1	Moderate IP response partially covered by the survey (end of line). Associated with slight increase of the apparent resistivity close to the border of an overburden basin. Additional IP coverage recommended westward.	4
IP-02	L12+00W L10+00W L8+00W	16+65N 13+90N 12+75N	4 2 2	+2 +2 +1	Moderate to strong polarizable axis in a very resistive area, close to the border of an overburden basin (fault). The chargeability anomaly source is relatively deep (about 50 metres). For a better comprehension of this anomaly, an IP coverage every 100 metres is recommended. After the evaluation of other geoscientific information, a DDH target might be recommended on L12+00W (see Table 3).	1
IP-03	L12+00W L10+00W	7+00N 8+50N	2 1	+1 +1	Weak to moderate IP axis associated with an increase of the apparent resistivity. Near the border of an overburden basin (fault).	4
IP-04	L10+00W L8+00W L7+00W L6+00W L5+00W L4+00W	18+10N 16+50N 15+60N 15+75N 15+65N 15+00N	2 2 4 4 3 3	+2 +1 +1 +2 +2 +2	Moderate to strong polarizable axis in a very resistive area. The IP signature is stronger eastwards. The chargeability anomaly origin is relatively deep (about 50 metres). For a better comprehension of the west part of this anomaly, a coverage every 100 metres is recommended. After the evaluation of the other geoscientific information, a DDH target might be recommended on L6+00W (see Table 3).	1

Name	Localisation		Contrast of		Remarks and Recommendations	Priority
	Lines	Stations	Chargeability	Resistivity		
IP-05	L10+00W	12+25N	1	+2	Weak IP axis in an overburden basin. Limited strike extension (only one line).	4
IP-06	L7+00W L6+00W L5+00W L4+00W L3+00W	13+90N 13+60N 13+50N 13+50N 13+25N	1 1 4 4 4	 +1 +2 +2 +1	Strong polarizable axis in a very resistive area. IP signature opened and stronger eastwards. Additionnal IP coverage recommended for a better comprehension of this anomaly. The chargeability anomaly origin is relatively deep (about 50 metres). After the evaluation of other geoscientific information, a DDH target might be recommanded on L4+00W (see Table 3).	1
IP-07	L6+00W	12+40N	+2	+1	Moderate IP axis in a resistive area. Border of an overburden basin. Limited strike extension (only one line).	3
IP-08	L4+00W L3+00W L2+00W	16+00N 16+25N 16+00N	2 2 2	-1 -2 -2	Moderate IP axis associated with a significant decrease of the apparent resistivity. Open eastward. Additional IP coverage recommended for a better comprehension of this anomaly and to determine a DDH target with more precision. (see table 3).	2
IP-09	L2+00W	18+50N	2	-2	Similar IP response as IP-08 but not covered completely by the survey (end of line). Open on both sides. Additional IP coverage recommended for a better comprehension of this anomaly.	3
IP-10	L2+00W	17+10N	2	+1	Moderate IP axis associated with an increase of the apparent resistivity. Open on both sides.	3

For legend please refer to the legend on enclosed maps.

5. CONCLUSION AND RECOMMENDATIONS

The present IP survey highlights an important resistive area (outcrops) where three important polarizable axes are encountered (IP-02, IP-04 and IP-06). These polarizable axes could represent a silicification alteration (quartz veins) with moderately disseminated mineralization. The IP-08 anomaly is also interesting, it's polarizable axis being associated with a significant decrease of the apparent resistivity.

As first priority, the completion of a DDH program is recommended. As second priority, the extension of the IP coverage would provide a better comprehension of the anomalies, help determine more precisely the DDH targets and possibly detect other potential ones (see Table 3).

Table 3: Recommended work to be completed on the Welsh Stanwick Project

Anomaly	Work proposed and target coordinates	Priority
IP-02	IP coverage every 100 metres Geological mapping work DDH target : L : 12+00W, S : 16+65N, D : -50 m	1
IP-04	DDH target : L : 6+00W, S : 15+75N, D : -50 m	1
IP-06	DDH target : L : 4+00W, S : 13+50N, D : -50 m	1
IP-08	Extension of IP coverage DDH target : L : 3+00W, S : 16+25N, D : -25 m	1 2
Note : DRILLING TARGET represents the target coordinates and not the collar location. L : Line, S : Station, D : Depth		

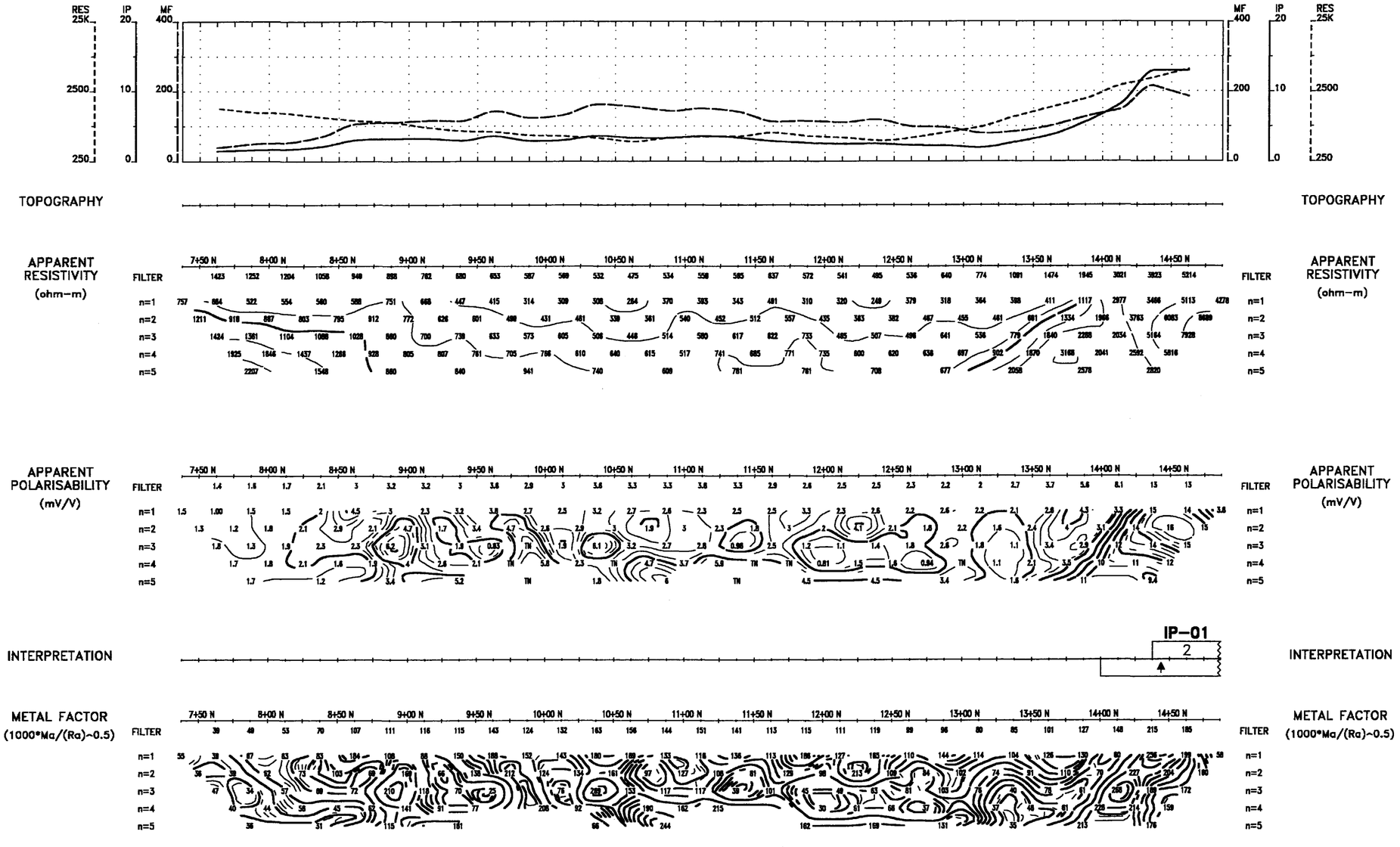
Respectfully submitted,

VAL D'OR SAGAX INC.

for Martin Dubois
Geophysicist

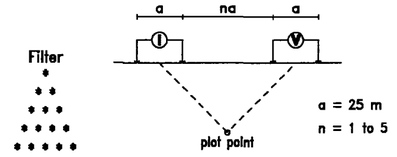
MD/er

PSEUDOSECTIONS



INDUCED POLARIZATION SURVEY

Dipole–Dipole Array



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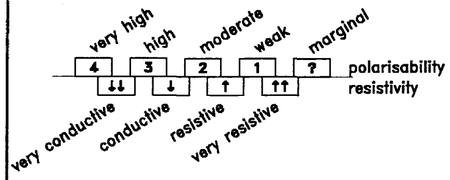


Contour interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
Polarisability: 0.5
Metal Factor: 2

Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 1400W

Scale 1 : 2500

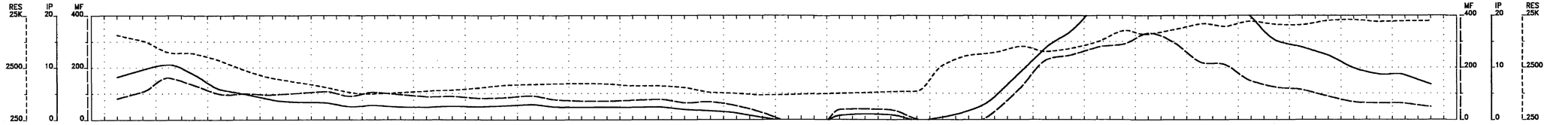
25 0 25 50 75 100 125 150m

SEDEX MINING CORPORATION

Welsh Stanwick Project
Powell Township
District of Matachewan

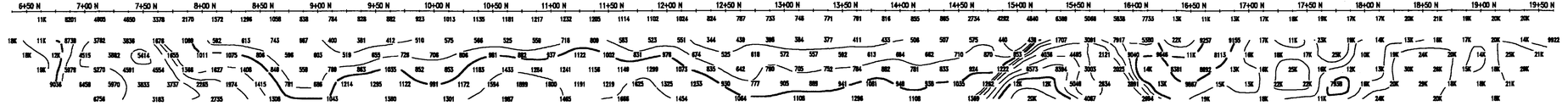
Interpreted by: M. Dubois, B. Sc.
Date of survey: November 1996
Surveyed by: Jean Meunier
Reference: 96-N125

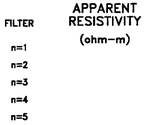
VAL D'OR SAGAX



TOPOGRAPHY

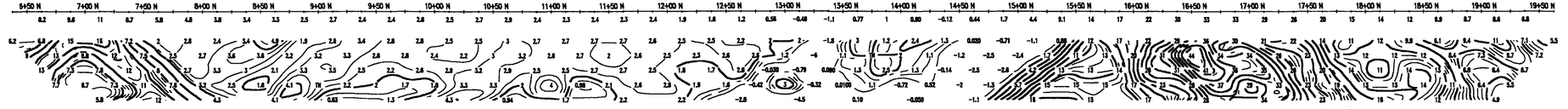
APPARENT RESISTIVITY (ohm-m)

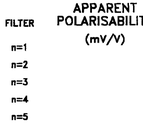




APPARENT RESISTIVITY (ohm-m)

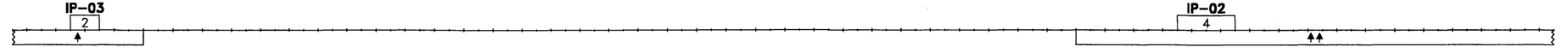
APPARENT POLARISABILITY (mV/V)





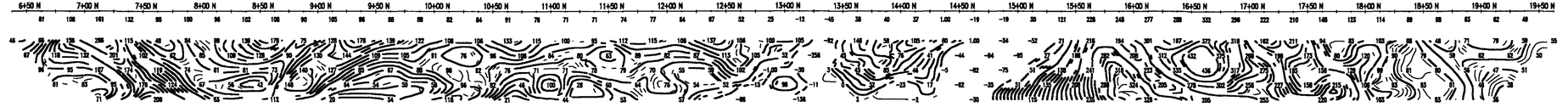
APPARENT POLARISABILITY (mV/V)

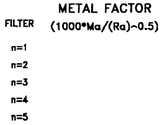
INTERPRETATION



INTERPRETATION

METAL FACTOR (1000*Ma/(Ra)-0.5)

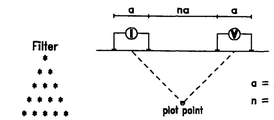




METAL FACTOR (1000*Ma/(Ra)-0.5)

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array



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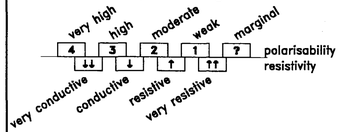

Contour interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
Polarisability: 0.5
Metal Factor: 2

Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 1200W

Scale 1 : 2500

25 0 25 50 75 100 125 150m

SEDEX MINING CORPORATION

Welsh Stanwick Project
Powell Township
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Date of survey: November 1996
Surveyed by: Jean Meunier
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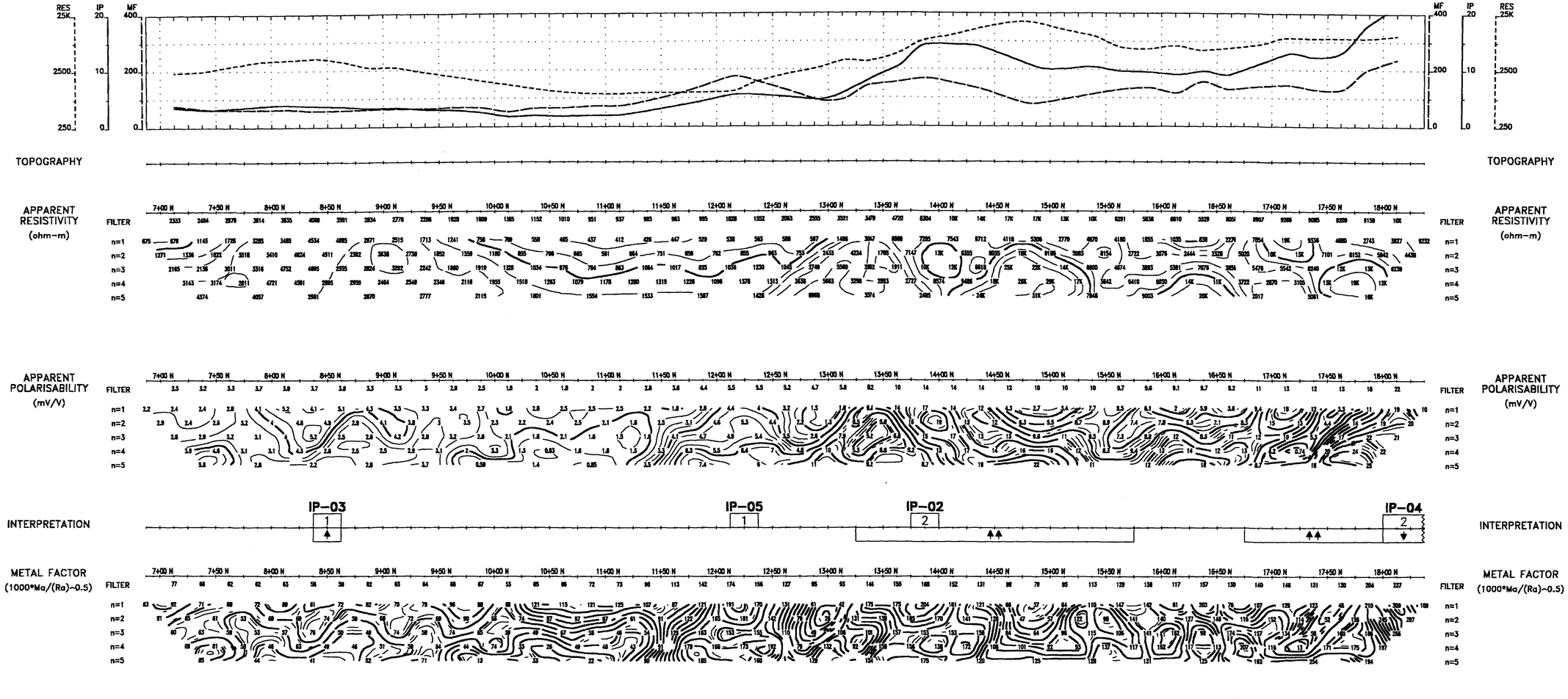
VAL D'OR SAGAX



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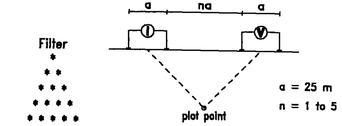
Dipole-Dipole Array



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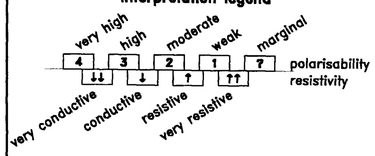

Contour interval:

Resistivity:	1, 1.5, 2, 3, 5, 7.5, 10,..
Polarisability:	0.5
Metal Factor:	2

Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 1000W

Scale 1 : 2500

25 0 25 50 75 100 125 150m

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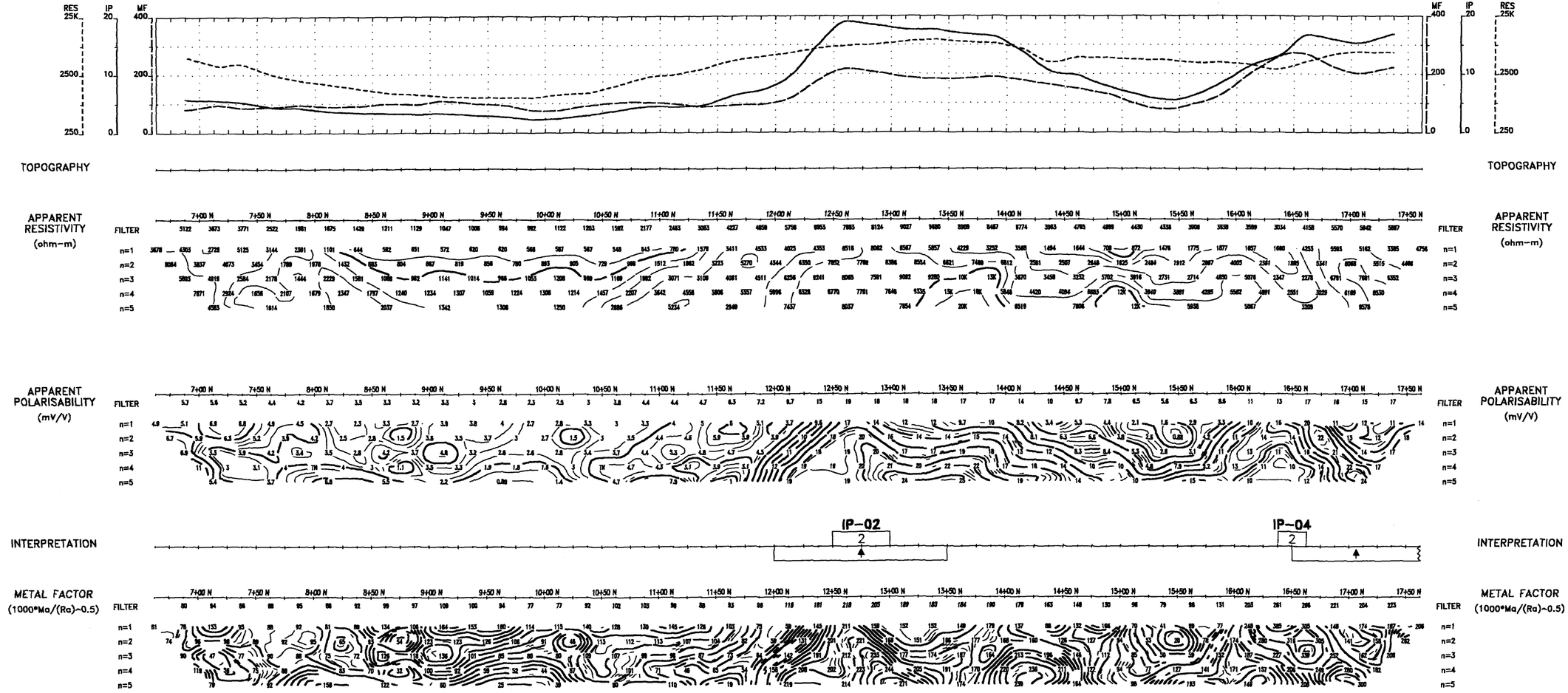

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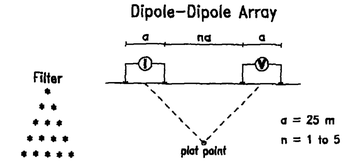
Dipole–Dipole Array



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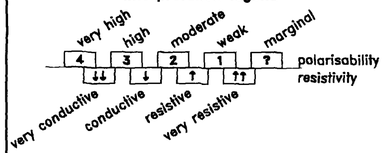

Contour Interval:
- Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
- Polarisability: 0.5
- Metal Factor: 2

Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 800W

Scale 1 : 2500

25 0 25 50 75 100 125 150m

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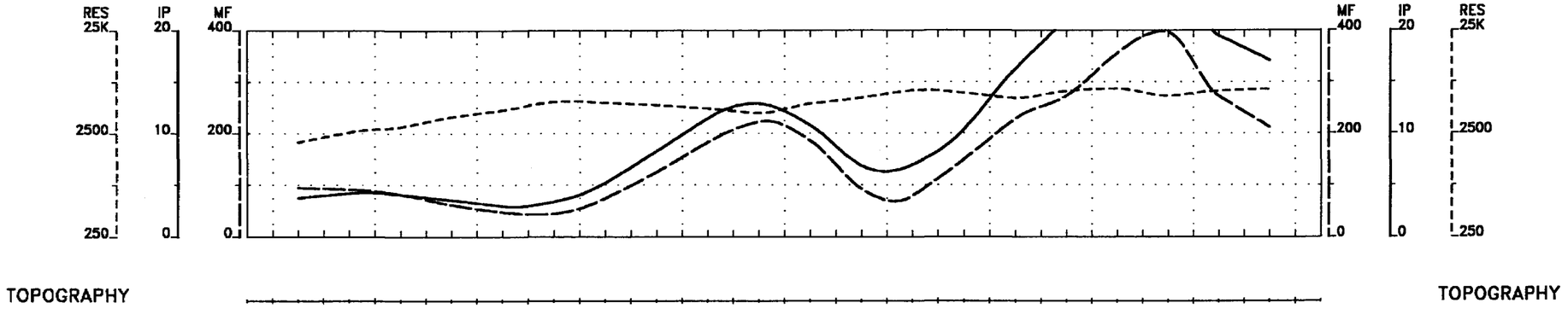
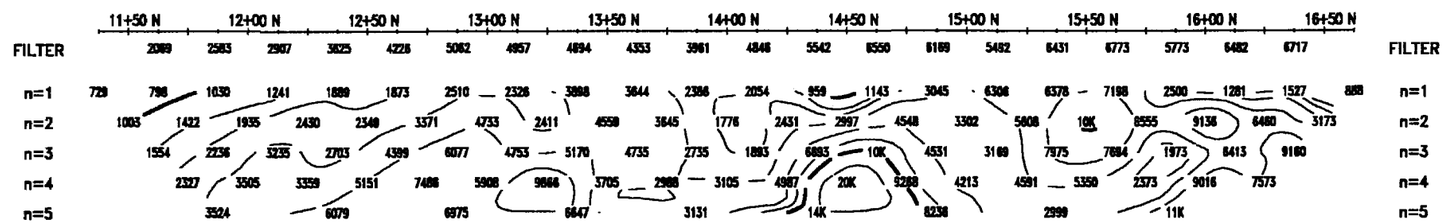
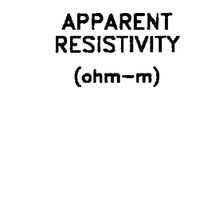


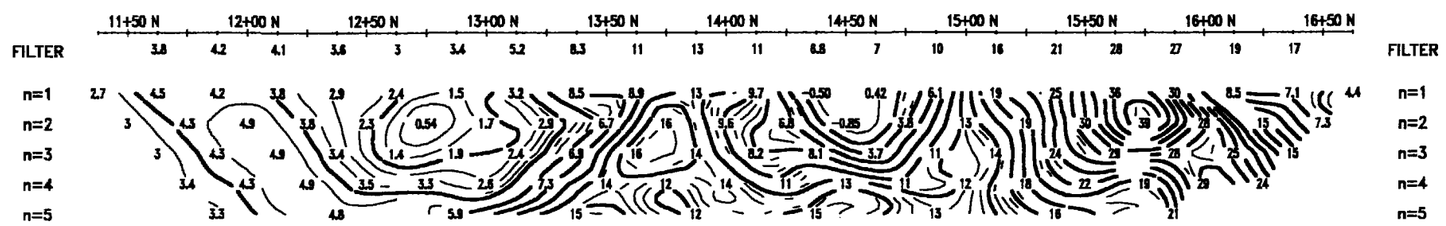
APPARENT RESISTIVITY (ohm-m)

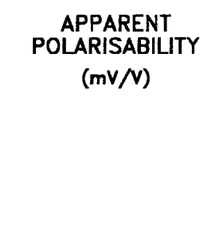




APPARENT RESISTIVITY (ohm-m)

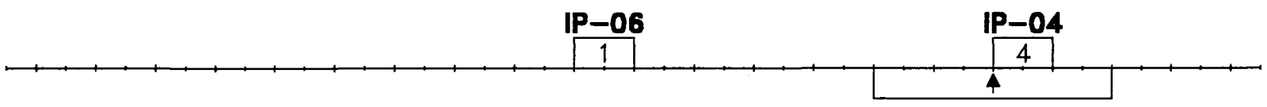
APPARENT POLARISABILITY (mV/V)





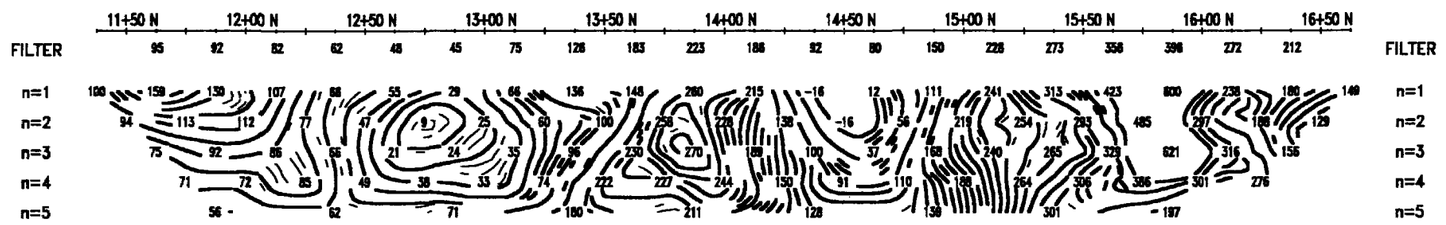
APPARENT POLARISABILITY (mV/V)

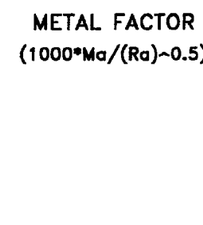
INTERPRETATION



INTERPRETATION

METAL FACTOR (1000*Ma/(Ra)~0.5)

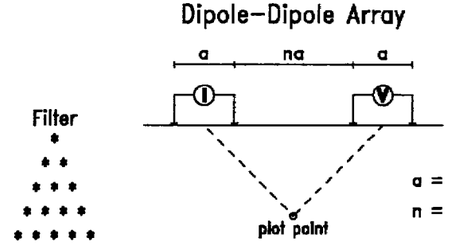




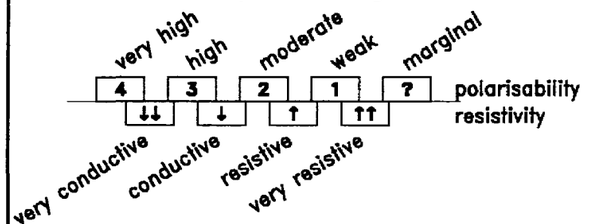
METAL FACTOR (1000*Ma/(Ra)~0.5)

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array



Interpretation legend



Contour interval:
- Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
- Polarisability: 0.5
- Metal Factor: 2

Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 700W

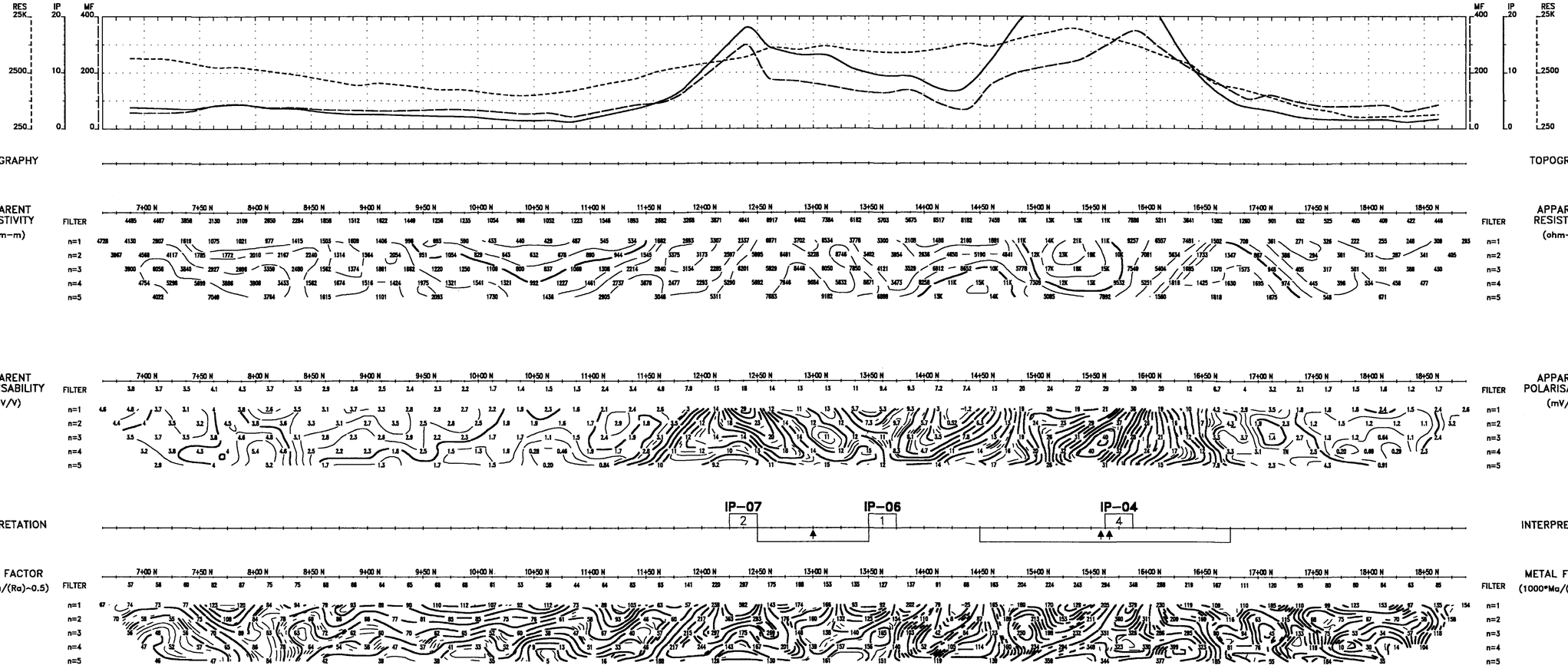
Scale 1 : 2500

SEDEX MINING CORPORATION

Welsh Stanwick Project
Powell Township
District of Matachewan

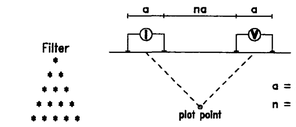
Interpreted by: M. Dubois, B. Sc.
Date of survey: November 1996
Surveyed by: Jean Meunier
Reference: 96-N125

VAL D'OR SAGAX

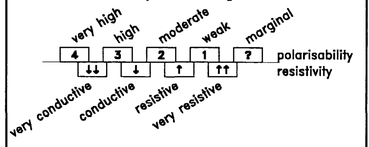


INDUCED POLARIZATION SURVEY

Dipole-Dipole Array



Interpretation legend



Contour interval:
- Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
- Polarisability: 0.5
- Metal Factor: 2

Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 600W

Scale 1 : 2500

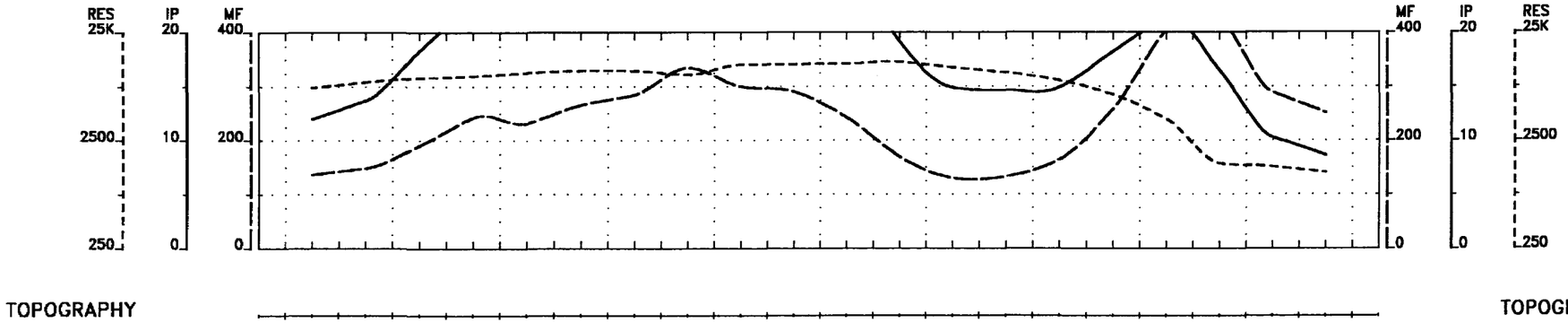
25 0 25 50 75 100 125 150m

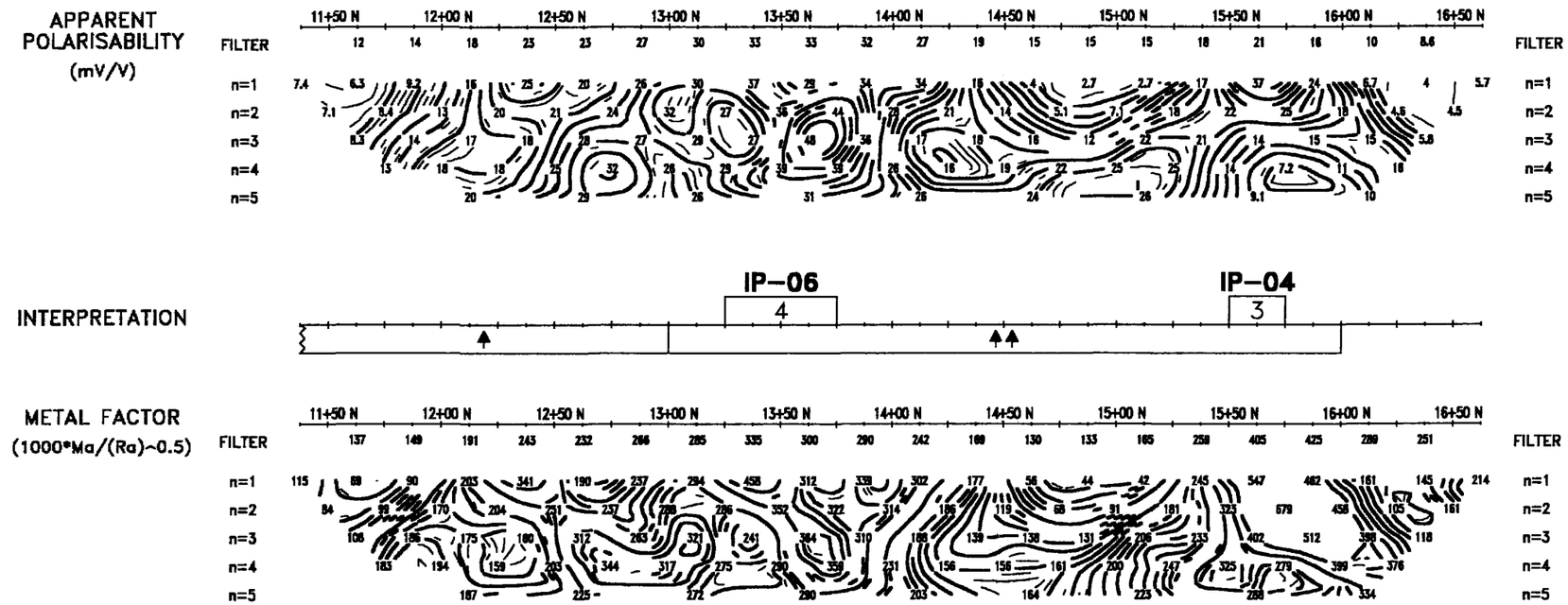
SEDEX MINING CORPORATION

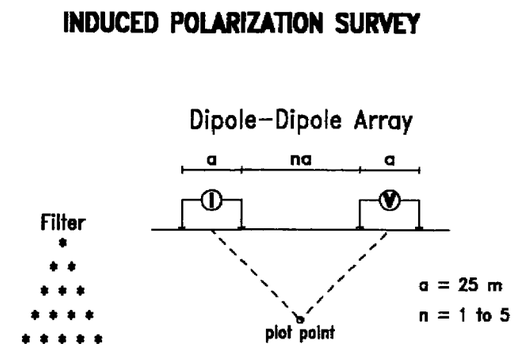
Welsh Stanwick Project
Powell Township
District of Matachewan

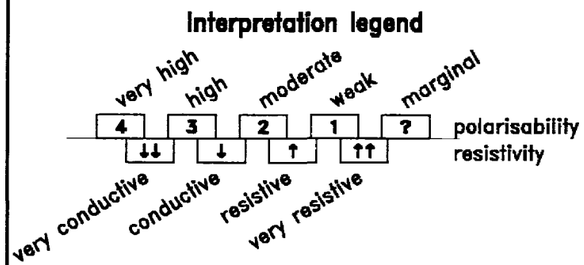
Interpreted by: M. Dubois, B. Sc.
Date of survey: November 1996
Surveyed by: Jean Meunier
Reference: 96-N125

VAL D'OR SAGAX









Contour interval:
- Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
- Polarisability: 0.5
- Metal Factor: 2

Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 500W

Scale 1 : 2500

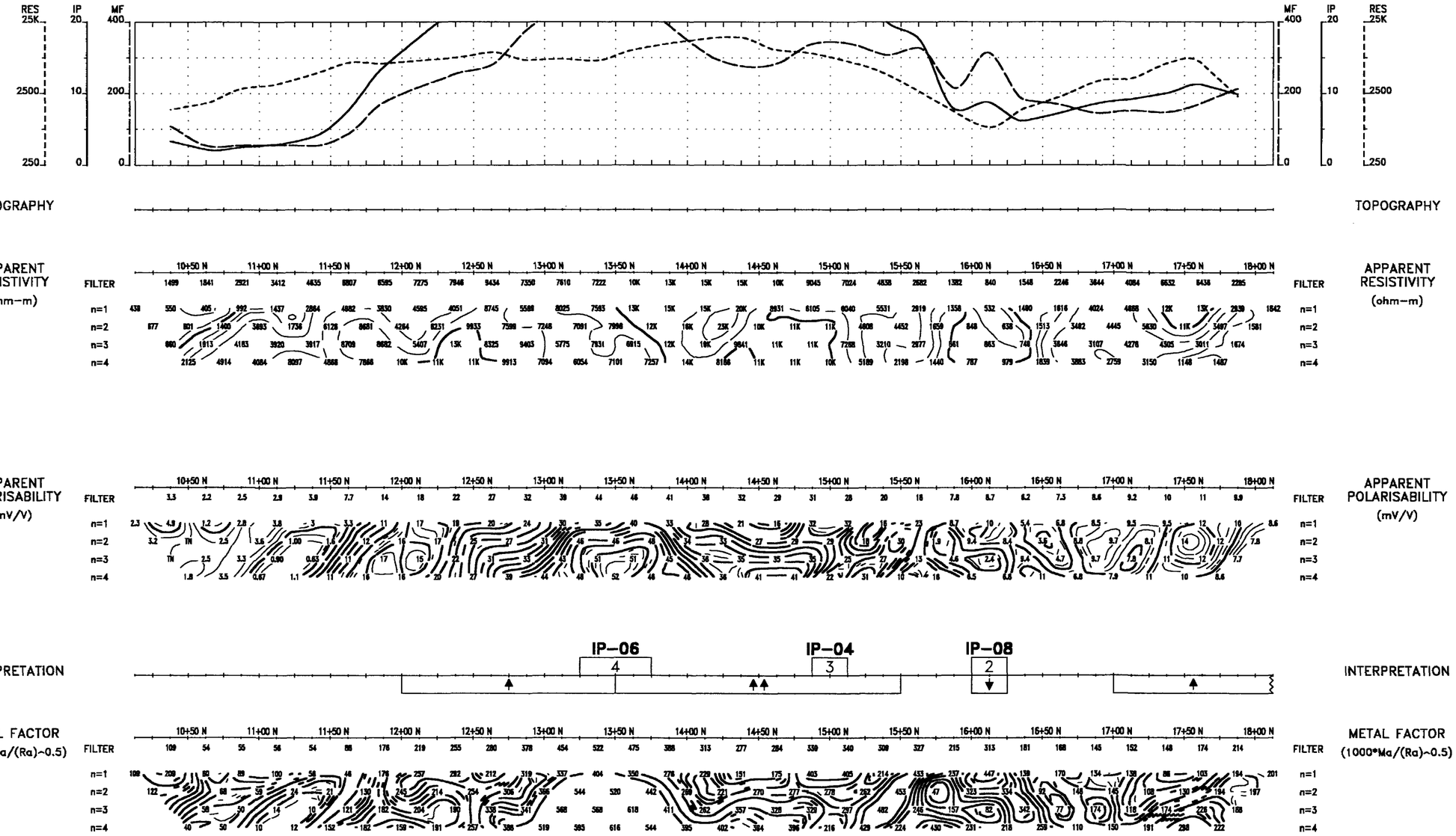
25 0 25 50 75 100 125 150m

SEDEX MINING CORPORATION

Welsh Stanwick Project
Powell Township
District of Matachewan

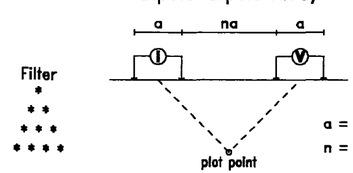
Interpreted by: M. Dubois, B. Sc.
Date of survey: November 1996
Surveyed by: Jean Meunier
Reference: 96-N125

VAL D'OR SAGAX

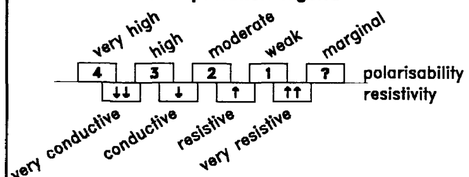


INDUCED POLARIZATION SURVEY

Dipole-Dipole Array



Interpretation legend



Contour Interval:

Resistivity:	1, 1.5, 2, 3, 5, 7.5, 10,..
Polarisability:	0.5
Metal Factor:	2

Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 400W

Scale 1 : 2500

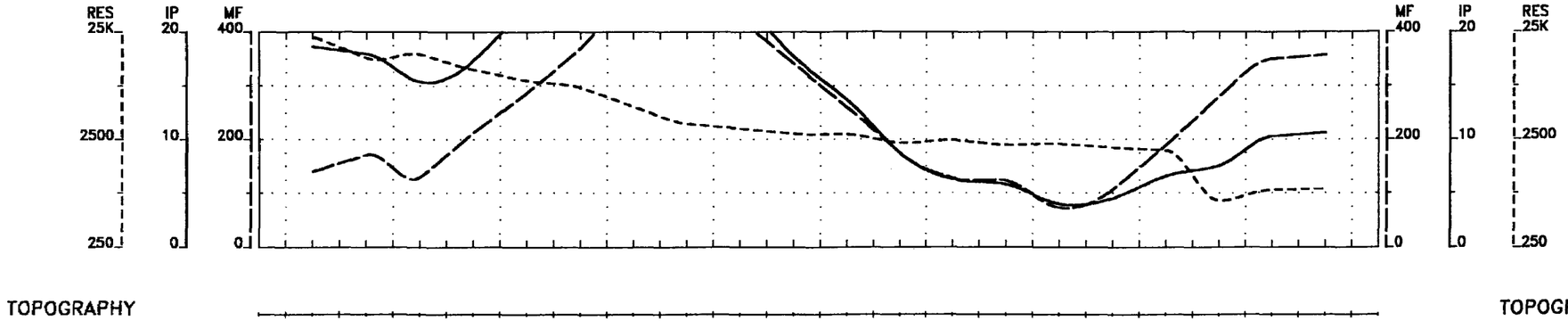
25 0 25 50 75 100 125 150m

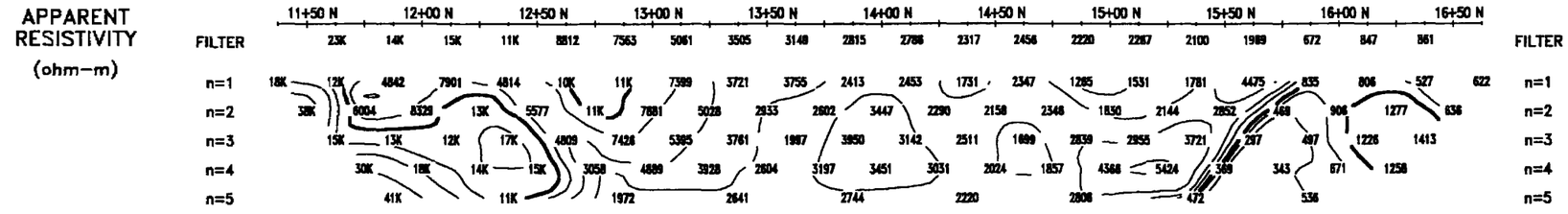
SEDEX MINING CORPORATION

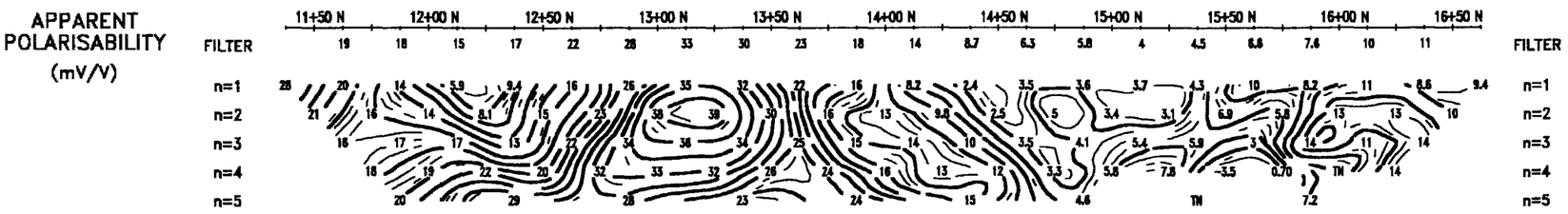
Welsh Stanwick Project
Powell Township
District of Matachewan

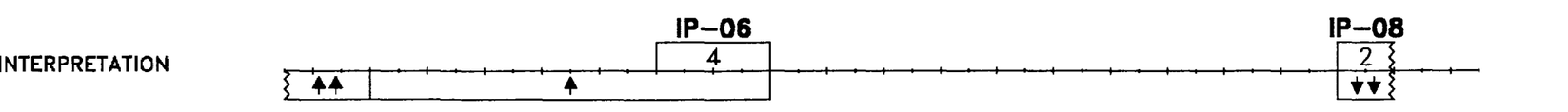
Interpreted by: M. Dubois, B. Sc.
Date of survey: November 1996
Surveyed by: Jean Meunier
Reference: 96-N125

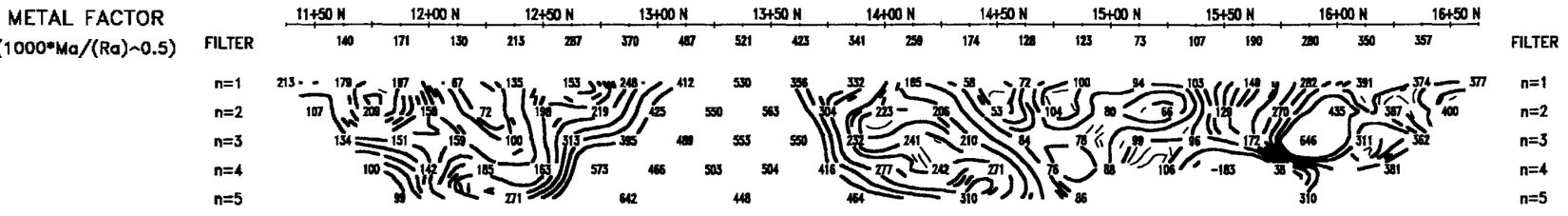
VAL D'OR SAGAX



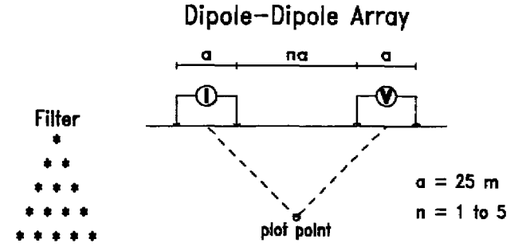




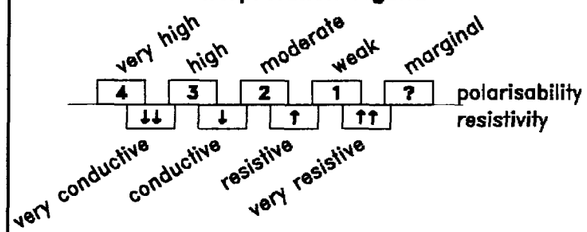




INDUCED POLARIZATION SURVEY



Interpretation legend



Contour interval:

Resistivity:	1, 1.5, 2, 3, 5, 7.5, 10,..
Polarisability:	0.5
Metal Factor:	2

Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 300W

Scale 1 : 2500

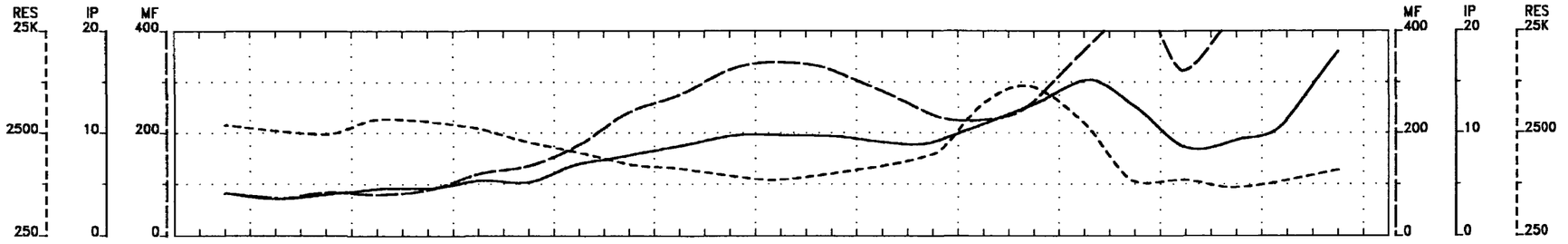
25 0 25 50 75 100 125 150m

SEDEX MINING CORPORATION

Welsh Stanwick Project
Powell Township
District of Matachewan

Interpreted by: M. Dubois, B. Sc.
Date of survey: November 1996
Surveyed by: Jean Meunier
Reference: 96-N125

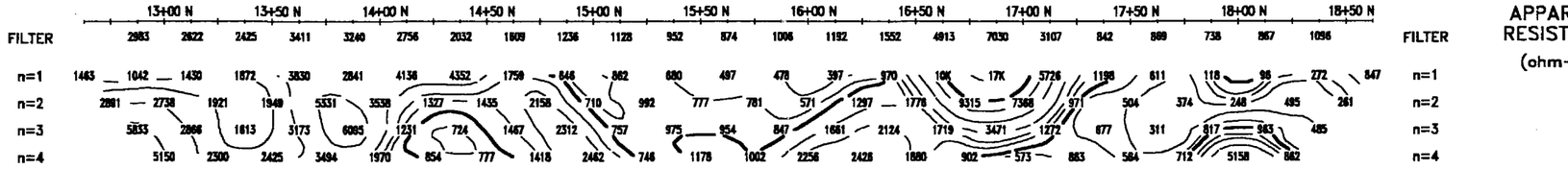
VAL D'OR SAGAX



TOPOGRAPHY

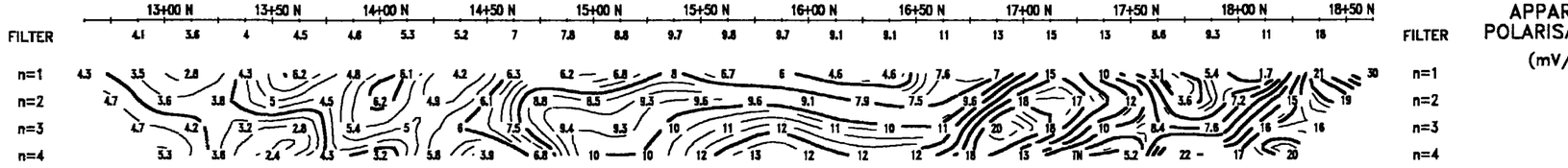
TOPOGRAPHY

APPARENT RESISTIVITY (ohm-m)



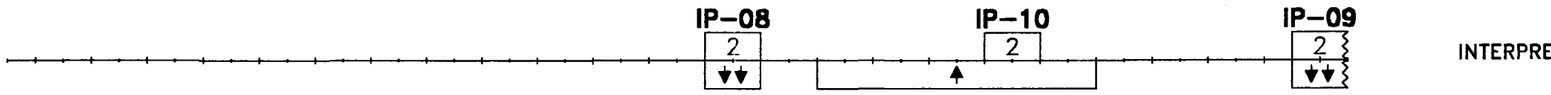
APPARENT RESISTIVITY (ohm-m)

APPARENT POLARISABILITY (mV/V)



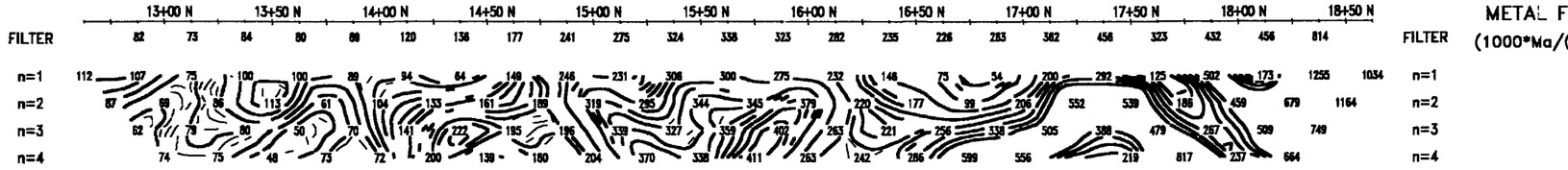
APPARENT POLARISABILITY (mV/V)

INTERPRETATION



INTERPRETATION

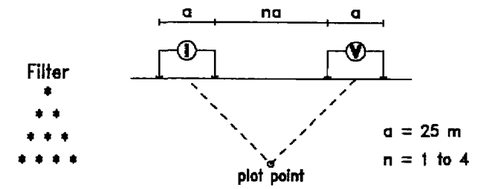
METAL FACTOR (1000*Ma/(Ra)~0.5)



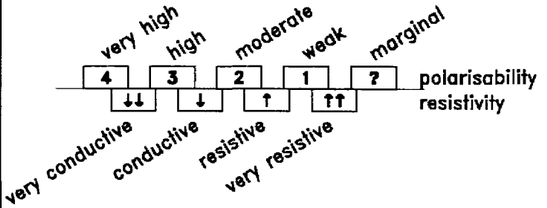
METAL FACTOR (1000*Ma/(Ra)~0.5)

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array



Interpretation legend



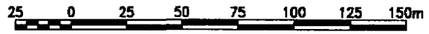
Contour interval:

Resistivity:	1, 1.5, 2, 3, 5, 7.5, 10,..
Polarisability:	0.5
Metal Factor:	2

Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 200W

Scale 1 : 2500



SEDEX MINING CORPORATION

Welsh Stanwick Project
Powell Township
District of Matachewan

Interpreted by: M. Dubois, B. Sc.
Date of survey: November 1996
Surveyed by: Jean Meunier
Reference: 96-N125

VAL D'OR SAGAX

Ontario | Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use): W9780.00254
Assessment Files Research Imaging

SDN: Welsh/Stanwick

41P15NE0021 2.17203 POWELL

900

ersonal information cc ... 6(3) of the Mining Act. Under section 8 of the
lining Act, the informat ... k and correspond with the mining land holder.
Questions about this ... orthern Development and Mine... 6th Floor,
33 Ramsey Lake Roa...

OKA, OKA-Two, OKA-Four.

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

2.17203

1. Recorded holder(s) (Attach a list if necessary)

Name: Tom Obradovich / 2973090 Canada Inc.	Client Number: 177382 / 300337
Address: P.O. Box 1146	Telephone Number: (705) 567-6883
Kirkland Lake, Ontario P2N 3M7	Fax Number: (705) 567-6873
Name: [redacted]	Client Number: [redacted]
Address: [redacted]	Telephone Number: [redacted]
	Fax Number:

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☑ Geotechnical: prospecting, surveys, assays and work under section 18 (regs)
☐ Physical: drilling, stripping, trenching and associated assays
☐ Rehabilitation

		Office Use
Work Type: Induced Polarization		Commodity
		Total $ Value of Work Claimed: 9887
Dates Work Performed: From 17 / 11 / 96 (Day / Month / Year) To 21 / 11 / 96 (Day / Month / Year)		NTS Reference
Global Positioning System Data (if available): -	Township/Area: Powell	Mining Division: Larder Lake
	M or G-Plan Number: G-3218	Resident Geologist District: Kirkland Lake

Please remember to:
- obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: Val d'Or Sagax	Telephone Number: (819) 874-2001
Address: ...0 Lamaque Boul. Val d'Or, Que J9P 2H6	Fax Number: (819) 874-2007
Name:	Telephone Number:
Address:	Fax Number:
Name:	Telephone Number:
Address:	Fax Number:

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APR 9 1997
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4. Certification by Recorded Holder or Agent

I, Tom Obradovich (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: T. Obradovich		Date: April 01/97
Agent's Address: P.O. Box 1146	Telephone Number: (705) 567-6883	Fax Number: (705) 567-6873

0241 (02/96)

Deemed - June 30/97

. **Work to be recorded and distributed.** Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9780.00254

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
					2.17203	
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	L511486	1	$ 194	400	—	
2	511487	1	970	400	570 cfs	
3	511488	1	1746	400	1346	
4	511489	1	2127	400	240	$1487
5	511490	1	582	400	182	
6	531566	1	388	—	388	
7	531567	1	582	—	582	
8	~~531568~~	1	—	—		
9	531613	1	1164	—	1164	
10	531614	1	582	—	582	
11	531615	1	388	—	388	
12	~~531815~~	1	—	—		
13	531816	1	194	—	194	
14	L1205862	1	194	—	194	
15	L1206306	1	388	400	—	
		Column Totals	$9499	$2400	$5830 cfs	$1487

I, Tom Obradovich (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: T Obradovich — Date: April 01, 1997

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☑ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed ~~last~~ first, working ~~back~~ for-wards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

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MINING LANDS BRANCH

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp: RECORDED LAKE MINING DIVISION APR 1 1997

Deemed Approved Date	Date Notification Sent
June 30/97	
Date Approved	Total Value of Credit Approved
Acting	
Approved for Recording by Mining Recorder (Signature)	
Linda Pompanetti	

0241 (02/96)

Ontario Northern Development and Mines

Assessment Work on Mining Land

W9780.00254

SDN: Welsh / Stanwick

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land	Value of work applied to this claim	Value of work assigned to other mining claims	Bank. Value of work to be distributed at a future date
16	L1206307	1	$388	400	—	
	1206147	1	—	400	—	
	1206148	1	—	400	—	
	1206150	1	—	400	—	
	1223270	1	—	400	—	
	1223271	2	—	800	—	
	1223281	1	—	400	—	
	1223283	1	—	400	—	
	1223284	1	—	400	—	
	1223285	1	—	400	—	
	1223286	1	—	400	—	
	1223287	1	—	400	—	
	1223288	1	—	400	—	
	1224878	1	—	400	—	
	Column Totals		$9887	$8400	$5830	$1487

2.17203

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APR 9 1997
MINING LANDS BRANCH

0290 (02/96)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)
W9780.00254
SDN: Welsh / Stanwick

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Induced Polarization	9.3 Km.	$ 775.00/Km.	$7712.03
			2.17203
Associated Costs (e.g. supplies, mobilization and demobilization).			
Field and Report Preparation staff		$150.00 per day	450.00
Drafting			575.00
Consumables			100.00
Transportation Costs			
	300 kilometers	$.30/km	90.00
Food and Lodging Costs			
4 man for 4 days		$60/man/day	960.00
		Total Value of Assessment Work	$9887.03

RECEIVED
APR 9 1997
MINING LANDS BRANCH

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Tom Obradovich (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as T Obradovich Agent (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature	Date
T Obradovich	April 01, 1997

0212 (02/96)

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

June 19, 1997

Roy Spooner
Mining Recorder
4 Government Road East
Kirkland Lake, ON
P2N 1A2

Dear Sir or Madam:

Submission Number: 2.17203

Subject: Transaction Number(s):		Status
	W9780.00254	Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

ORIGINAL SIGNED BY
Ron C. Gashinski
Senior Manager, Mining Lands Section
Mines and Minerals Division

Correspondence ID: 10968
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.17203

Date Correspondence Sent: June 19, 1997 **Assessor:** Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9780.00254	511486	POWELL	Approval After Notice	June 16, 1997

Section:

14 Geophysical IP

Thank you for your response to the 45 Day Notice dated May 01, 1997. Review of the additional information you provided has resulted in the approval of assessment credit as outlined in the original Report of Work form.

Correspondence ID: 10968

Work Report Assessment Results

Submission Number: 2.17203

Correspondence to:

Mining Recorder
Kirkland Lake, ON

Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

THOMAS JOHN ELI OBRADOVICH
KIRKLAND LAKE, Ontario

2973090 CANADA INC.
VAL D'OR, QUEBEC

DONALD JOSEPH CAMPBELL
MATACHEWAN, Ontario

FRED STAN KIERNICKI
KIRKLAND LAKE, Ontario

GINO PAUL CHITARONI
COBALT, Ontario

STEVEN WILLIAM STANWICK
MATACHEWAN, Ontario

ETHEL WELSH
KIRKLAND LAKE, Ontario

ALCANEX LTD.
MISSISSAUGA, ONTARIO

Correspondence ID: 10968

LIST OF OTHER RECORDED HOLDERS

Don Campbell 115087
241 Amabilis Avenue
P.O. Box 176
Matachewan, Ontario P0K 1M0

Fred Kiernicki 152022
P.O. Box 1143
82 Bernhard Drive
Kirkland Lake, Ontario P2N 3M7

Gino Chitaroni 117914
P.O. Box 699
50 Silver Street
Cobalt, Ontario P0J 1C0

2.17203

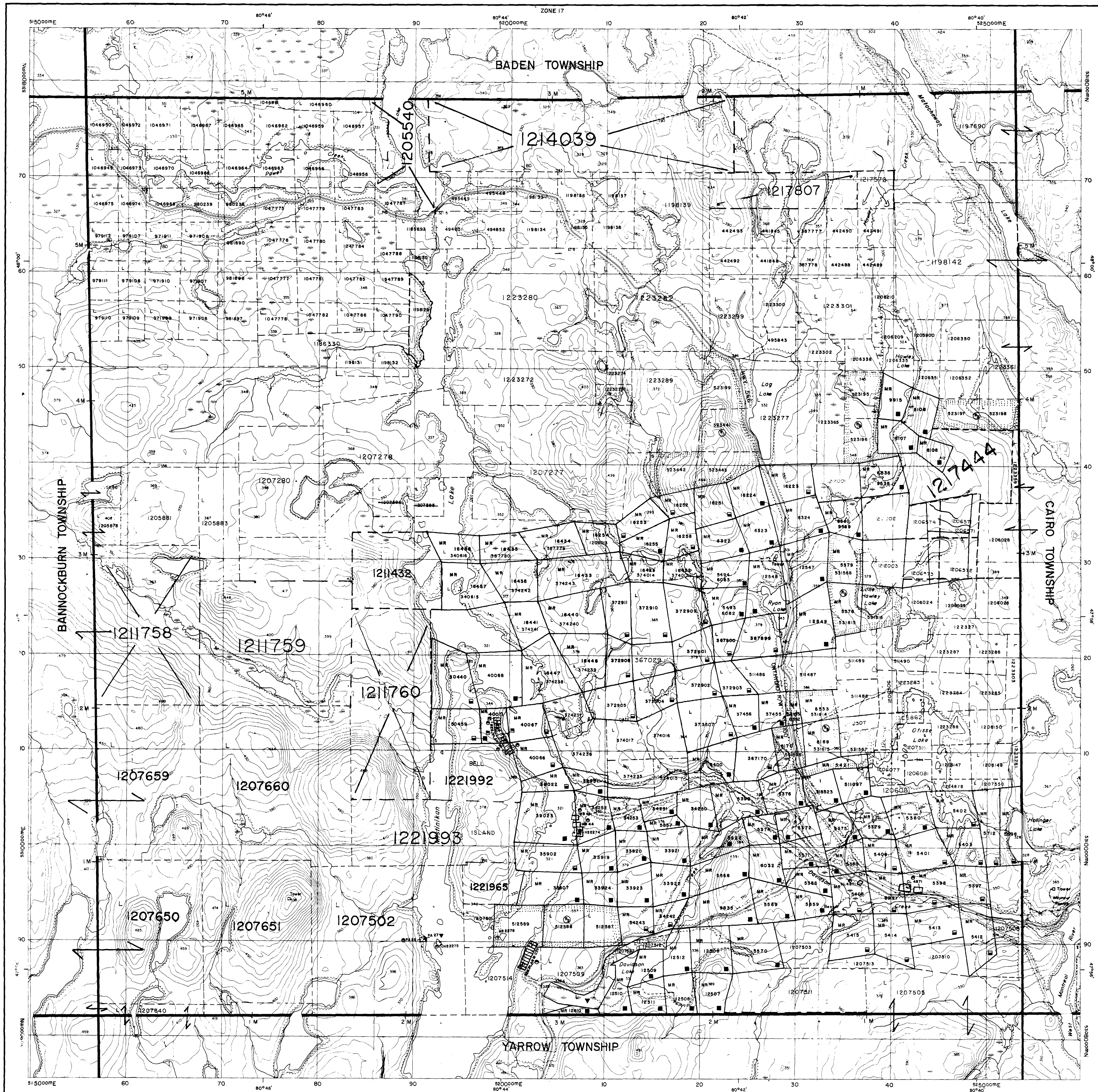
Steve Stanwick 197212
P.O. Box 82
Dale Street
Matachewan, Ontario P0K 1M0

Ethel Welsh 207580
79 Gov't Road East, Apt. 4
Kirkland Lake, Ontario P2N 1A6

Alcanex Limited 101512
1365 Clarkson Road North
Mississauga, Ontario L5J 2W6

200

G-3218



2.17203

Ministry of Natural Resources

Ministry of Northern Development and Mines

Ontario

INDEX TO LAND DISPOSITION

PLAN

G-3218

TOWNSHIP

POWELL

RECEIVED APR 9 1997 MINING LANDS BRANCH

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES/REGISTRY DIVISION

TIMISKAMING

Scale 1:20 000

Metres 1000 0 1000 2000 Metres

Feet 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Feet

Contour Interval 10 Metres

AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only
SRO - Surface Rights Only
M+S - Mining and Surface Rights

Description	Order No.	Date	Disposition	File
R1	W-L-18/95	MAR. 30/95	M+S	
R2	W-L-19/95	MAR. 30/95	M+S	
R3	W-L-20/95	MAR. 30/95	M+S	

SYMBOLS

Boundary
- Township, Meridian, Baseline
- Road allowance; surveyed
- shoreline
- Lot/Concession; surveyed
- unsurveyed
- Parcel; surveyed
- unsurveyed
- Right-of-way; road
- railway
- utility
- Reservation

Cliff, Pit, Pile

Contour
- Interpolated
- Approximate
- Depression

Control point (horizontal)

Flooded land

Mine head frame

Pipeline (above ground)

Railway; single track
- double track
- abandoned

Road; highway, county, township
- access
- trail, bush

Shoreline (original)

Transmission line

Wooded area

NOTES

L.O. 7601 COVERS FLOODING RIGHTS IN THIS TOWNSHIP TO CONTOUR 870 TO ONTARIO HYDRO. FILE: 12290 VOL. 2.

DISPOSITION OF CROWN LANDS

Patent
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only

Lease
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation

Order-in-Council ..... OC

Cancelled

Reservation

Sand & Gravel

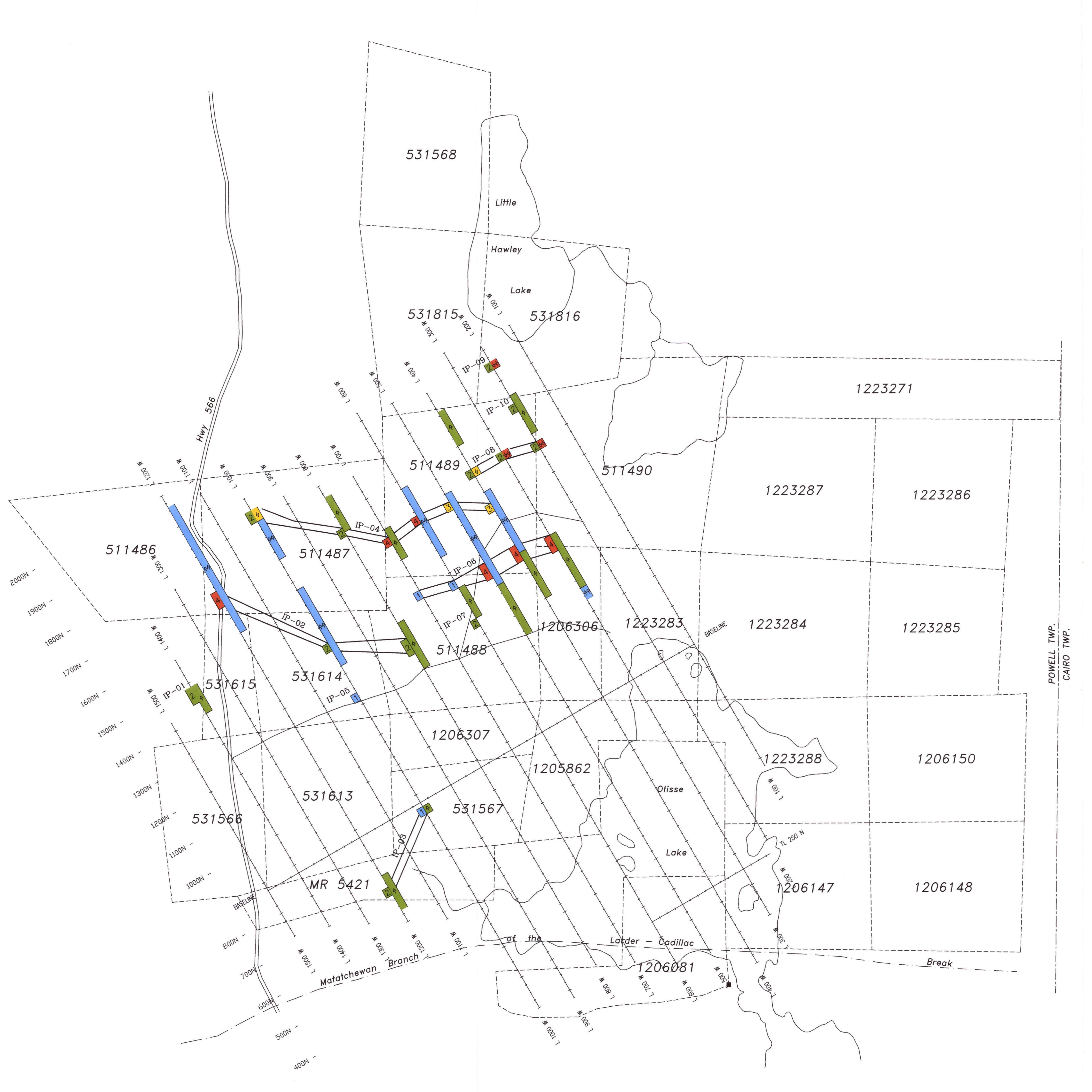
POWELL TWP.

CIRCULATED DEC 14, 1995 KP

Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources.

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.

G-3218



LEGEND

INDUCED POLARIZATION

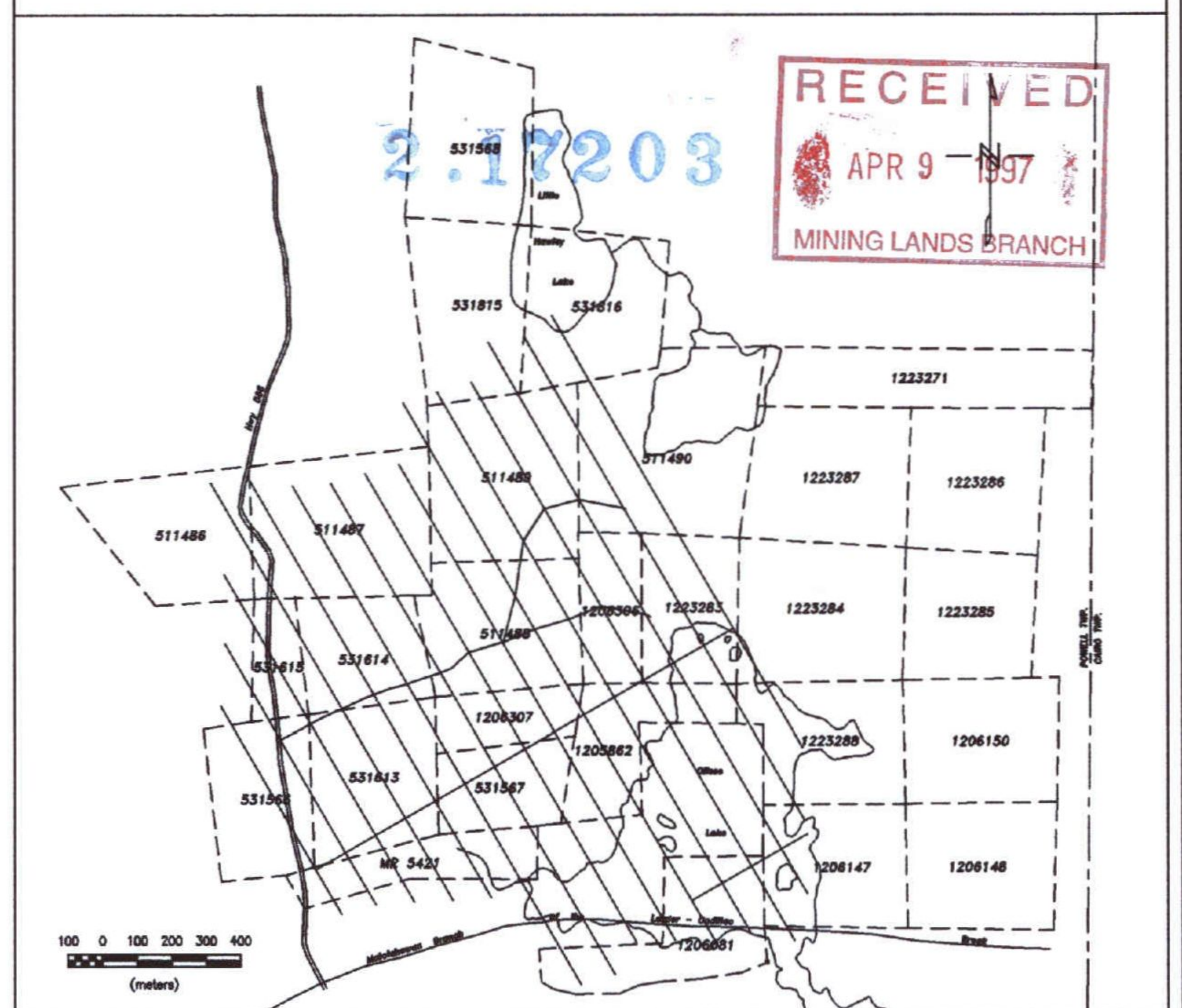
POLARIZATION		RESISTIVITY
Very high	4	Very resistive
High	3	Resistive
Moderate	2	Conductive
Weak	1	Very conductive
Marginal	?	

41P15NE0021 2.17203 POWELL

210

SCALE 1 : 5 000

100 0 100 200 300 400
(metres)



SEDEX MINING CORPORATION
WELSH – STANWICK PROJECT

GEOPHYSICAL INTERPRETATION

VAL D'OR SAGAX INC.

Interpreted by: M. Dubois, B. Sc. | Date: 01/97

Scale 1 : 5 000 | Drawing no: 96-N125-4.0

531568

Little

Hawley

Lake

531815

531816

1223271

511490

1223287

1223286

Hwy 566

511489

511486

511487

511488

1206306

1223283

1223284

1223285

BASELINE

POWELL TWP.

CAIRO TWP.

531614

531615

1206307

1205862

1223288

1206150

531613

531567

Otisse

Lake

TL 250 N

531566

MR 5421

1206147

1206148

BASELINE

of the Lakder – Cadillac Break

Matatchewan Branch

1206081

2000N

1900N

1800N

1700N

1600N

1500N

1400N

1300N

1200N

1100N

1000N

800N

700N

600N

500N

400N

L.1200 W

L.1100 W

L.1000 W

L.900 W

L.800 W

L.700 W

L.600 W

L.500 W

L.400 W

L.300 W

L.200 W

L.100 W

M.100 W

M.200 W

M.300 W

M.400 W

M.500 W

M.600 W

M.700 W

M.800 W

M.900 W

M.1000 W

M.1100 W

M.1200 W

M.1300 W

M.1400 W

M.1500 W

LEGEND

CONTOUR INTERVALS (mV/V)

Linear contours:

0.5
2.0
10.0

Electrode array: Dipole-dipole
a = 25 m n = 1,2,3,4,5

Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Time cycle: 2 sec.

41P15NE0021 2.17203 POWELL

220

SCALE 1 : 5 000

100 0 100 200 300 400
(metres)

2.17203

SEDEX MINING CORPORATION

WELSH – STANWICK PROJECT

INDUCED POLARIZATION SURVEY

CHARGEABILITY CONTOURS (FILTER)

VAL D'OR SAGAX INC.

VAL D'OR SAGAX

Interpreted by: M. Dubois, B. Sc. Date: 01/97

Scale 1 : 5 000 Drawing no: 96-N125-4.3

LEGEND

CONTOUR INTERVALS (Ohm–m)

Logarithmic contours:

- - - -	0.1	10,11.2,12.5,14.1,16,18,20,22 ..
———	0.5	10, 12.5, 16, 20, 25, 32, 40 ..

Electrode array: Dipole–dipole
a = 25 m n = 1,2,3,4,5

Instruments: IRIS ELREC–6, PHOENIX IPT–1, MG–1

Time cycle: 2 sec.

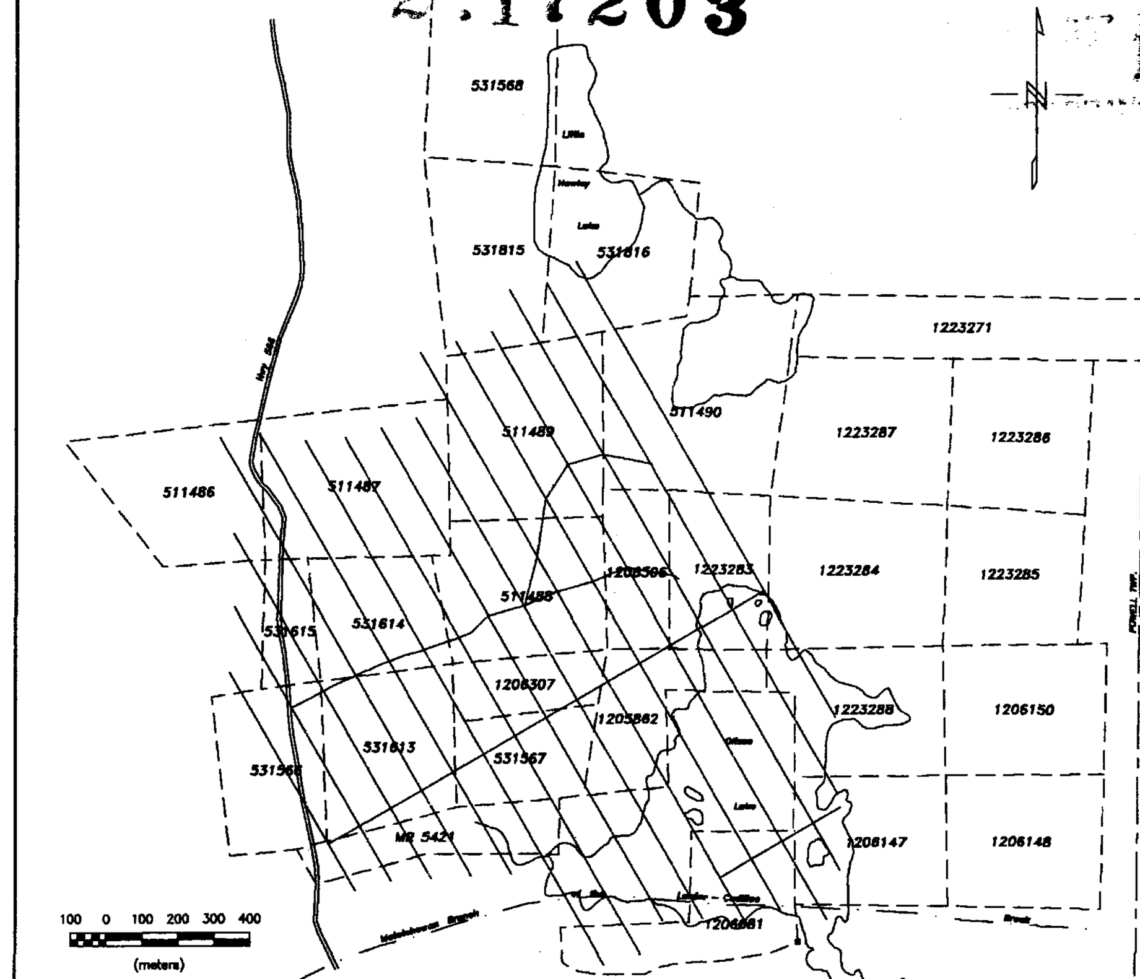
41P15NE0021 2.17203 POWELL

230

SCALE 1 : 5 000

100 0 100 200 300 400
(metres)

2.17203



SEDEX MINING CORPORATION
WELSH – STANWICK PROJECT

INDUCED POLARIZATION SURVEY
RESISTIVITY CONTOURS (FILTER)

VAL D'OR SAGAX INC.

VAL D'OR SAGAX

Interpreted by: M. Dubois, B. Sc. Date: 01/97

Scale 1 : 5 000 Drawing no: 96–N125–4.2