**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
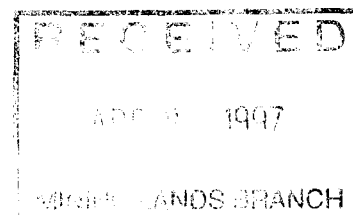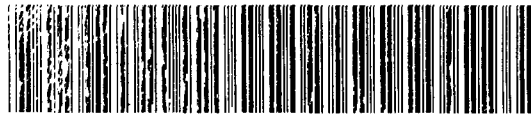
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SUMMARY

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.

010C

VAL D'OR
SAGAX

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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

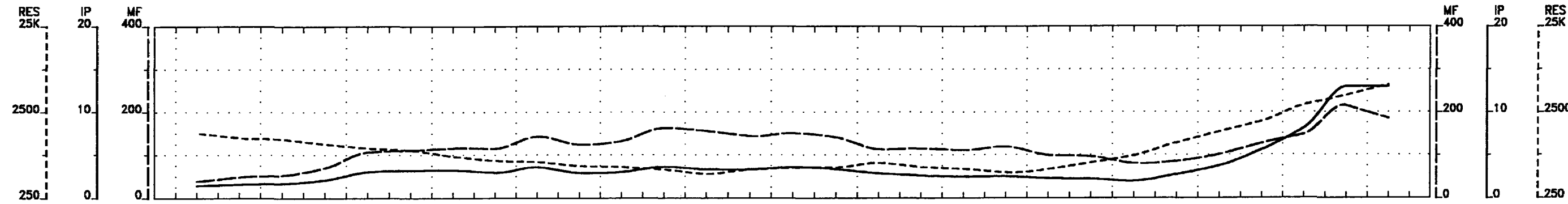| Anomaly	Work proposed and target coordinates	Priority
IP–02	IP coverage every 100 metres Geological mapping work DDH target : L : 12+00W, S : 16+65N, D : –50 m	1
IP–04	DDH target : L : 6+00W, S : 15+75N, D : –50 m	1
IP–06	DDH target : L : 4+00W, S : 13+50N, D : –50 m	1
IP–08	Extension of IP coverage 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

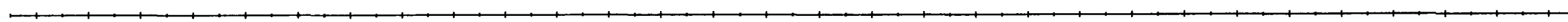# PSEUDOSECTIONS

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array

a = 25 m
n = 1 to 5

Filter

plot point

Interpretation legend

very high	high	moderate	weak	marginal	
4	3	2	1	?	polarisability resistivity
↓↓	↓	↑	↑↑		

very conductive / conductive / resistive / very resistive

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

RES 25K   IP 20   MF 400

MF 400   IP 20   RES 25K

APPARENT RESISTIVITY (ohm-m)   FILTER

	7+50 N	8+00 N	8+50 N	9+00 N	9+50 N	10+00 N	10+50 N	11+00 N	11+50 N	12+00 N	12+50 N	13+00 N	13+50 N	14+00 N	14+50 N
	1423 1252 1204 1058 940	898 782 680 633	587 569 532 475	534 558 585 637	572 541 495 536	640 774 1091 1474	1845 3021 3923 5214
n=1	757 964 522 554 560 589	751 669 447 415	314 309 308 264	370 383 343 481	310 320 248 379	318 364 388 411 1117	2977 3466 5113 4278
n=2	1211 910 867 803 795	812 772 626 601	490 431 481 339	361 540 452 512	557 435 383 467	455 481 691 1334	1906 3763 6083 8689
n=3	1424 1361 1104 1098 1028	860 700 739 633	805 606 448 514	500 617 622 733	485 507 490 641	536 779 1840 2288	5184 7928
n=4	1925 1846 1437 1266 928	805 807 761	705 786 610 424	615 517 741 685	771 735 800 638	697 902 1670 3168	2041 2592 5816
n=5	2207 1548	860 840	941 740	609 781	781 708	677 2050 2578 2920

APPARENT POLARISABILITY (mV/V)   FILTER

	7+50 N	8+00 N	8+50 N	9+00 N	9+50 N	10+00 N	10+50 N	11+00 N	11+50 N	12+00 N	12+50 N	13+00 N	13+50 N	14+00 N	14+50 N
	1.4 1.6 1.7 3 3.2 3.2 2.9 3 3.6 3.3 3.3 3.3 2.9 2.6 2.5 2.5 2.3 2.2 2.7 3.7 5.6 8.1 13 13

n=1, n=2, n=3, n=4, n=5

INTERPRETATION

IP-01
2

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

	7+50 N	8+00 N	8+50 N	9+00 N	9+50 N	10+00 N	10+50 N	11+00 N	11+50 N	12+00 N	12+50 N	13+00 N	13+50 N	14+00 N	14+50 N
	39 40 53 70 107 111 116 115 143 124 132 163 156 144 141 113 115 111 119 99 96 80 85 101 127 148 215 185

n=1, n=2, n=3, n=4, n=5

TOPOGRAPHY

APPARENT RESISTIVITY (ohm-m)

FILTER — n=1, n=2, n=3, n=4, n=5

APPARENT POLARISABILITY (mV/V)

FILTER — n=1, n=2, n=3, n=4, n=5

INTERPRETATION

IP-03 — 2
IP-02 — 4

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

FILTER — n=1, n=2, n=3, n=4, n=5

INDUCED POLARIZATION SURVEY

Dipole–Dipole Array

Filter

a = 25 m
n = 1 to 5

a — na — a
plot point

Interpretation legend

very high	high	moderate	weak	marginal	
4 ↓↓	3 ↓	2	1 ↑	? ↑↑	polarisability

very conductive — conductive — resistive — very resistive — resistivity

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

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Date of survey: November 1996
Surveyed by: Jean Meunier
Reference: 96-N125

VAL D'OR SAGAX

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array

Filter

a = 25 m
n = 1 to 5

plot point

Interpretation legend

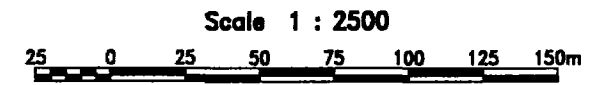| 4	3	2	1	?	polarisability
very high	high	moderate	weak	marginal	
very conductive	conductive	resistive	very resistive		resistivity

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
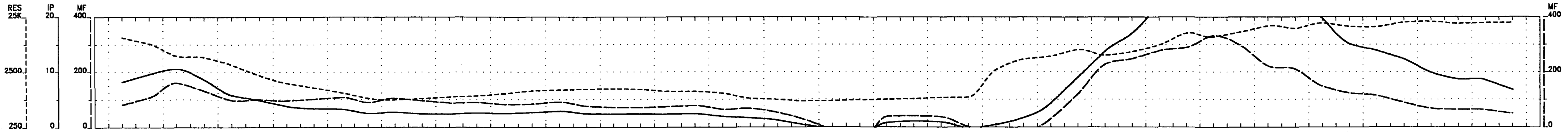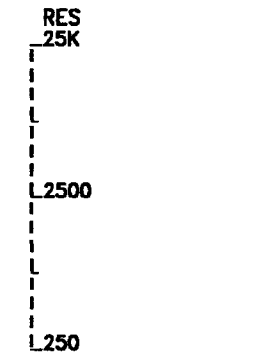
Line 1000W

Scale 1 : 2500

25 0 25 50 75 100 125 150m

RES 25K   IP 20   MF 400

TOPOGRAPHY

APPARENT RESISTIVITY (ohm-m)   FILTER   n=1 n=2 n=3 n=4 n=5

APPARENT POLARISABILITY (mV/V)   FILTER   n=1 n=2 n=3 n=4 n=5

INTERPRETATION

IP-03 [1]   IP-05 [1]   IP-02 [2]   IP-04 [2]

METAL FACTOR (1000*Ma/(Ra)~0.5)   FILTER   n=1 n=2 n=3 n=4 n=5

Station lines: 7+00 N, 7+50 N, 8+00 N, 8+50 N, 9+00 N, 9+50 N, 10+00 N, 10+50 N, 11+00 N, 11+50 N, 12+00 N, 12+50 N, 13+00 N, 13+50 N, 14+00 N, 14+50 N, 15+00 N, 15+50 N, 16+00 N, 16+50 N, 17+00 N, 17+50 N, 18+00 N

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array

Filter

a = 25 m
n = 1 to 5

plot point

Interpretation legend

4	3	2	1	?	polarisability
very high	high	moderate	weak	marginal	resistivity

↓↓ very conductive ↓ conductive ↑ resistive ↑↑ very resistive

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

SEDEX MINING CORPORATION

Welsh Stanwick Project
Powell Township
District of Matachewan

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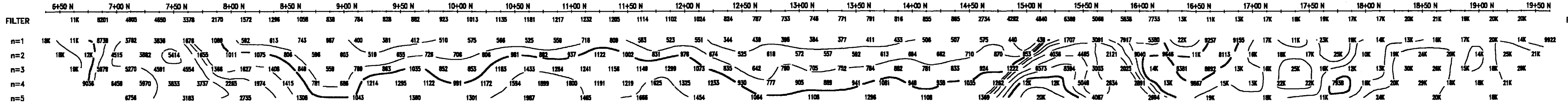Surveyed by: Jean Meunier
Reference: 96-N125
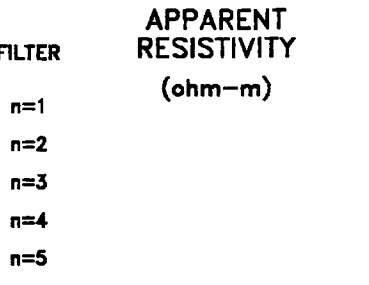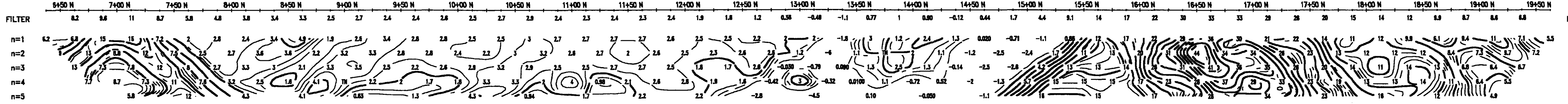
VAL D'OR SAGAX

TOPOGRAPHY

RES 25K / IP 20 / MF 400 — 2500 — 250

APPARENT RESISTIVITY (ohm-m)
FILTER n=1 n=2 n=3 n=4 n=5

APPARENT POLARISABILITY (mV/V)
FILTER n=1 n=2 n=3 n=4 n=5

INTERPRETATION

IP-02 2   IP-04 2

METAL FACTOR (1000*Ma/(Ra)~0.5)
FILTER n=1 n=2 n=3 n=4 n=5

Stations: 7+00 N, 7+50 N, 8+00 N, 8+50 N, 9+00 N, 9+50 N, 10+00 N, 10+50 N, 11+00 N, 11+50 N, 12+00 N, 12+50 N, 13+00 N, 13+50 N, 14+00 N, 14+50 N, 15+00 N, 15+50 N, 16+00 N, 16+50 N, 17+00 N, 17+50 N

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array

a = 25 m
n = 1 to 5

Filter
plot point

Interpretation legend

very high	high	moderate	weak	marginal	
4	3	2	1	?	polarisability
↓↓	↓	↑	↑↑		resistivity

very conductive / conductive / resistive / very resistive

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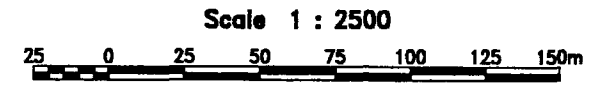Metal Factor: 2

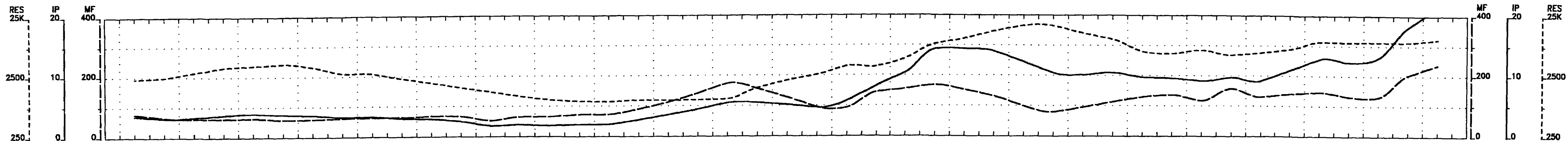Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 700W

Scale 1 : 2500

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
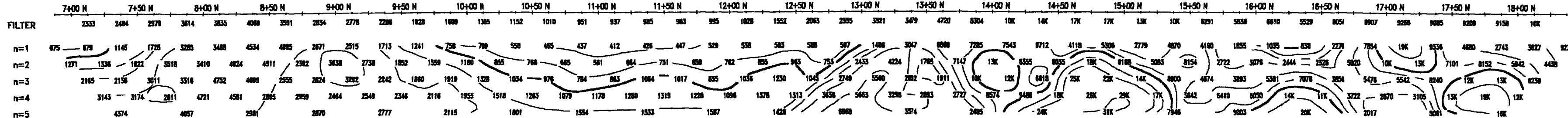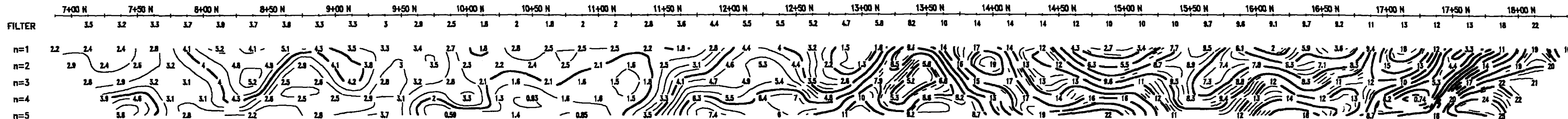Surveyed by: Jean Meunier
Reference: 96-N125

VAL D'OR SAGAX

RES 25K   IP 20   MF 400   MF 400   IP 20   RES 25K

2500 — 10 — 200 ... 200 — 10 — 2500
250 — 0 — 0 ... 0 — 0 — 250

TOPOGRAPHY

APPARENT RESISTIVITY (ohm-m)

FILTER

	11+50 N	12+00 N	12+50 N	13+00 N	13+50 N	14+00 N	14+50 N	15+00 N	15+50 N	16+00 N	16+50 N
	2089 2563 2907	3625 4228 5062	4957 4894 4353	3961 4848 5542	6550 6169	5482 6431 6773	5773 6482 6717				

n=1: 729 798 1030 1241 1899 1873 2510 2326 3888 3644 2388 2054 959 1143 3045 6308 6378 7198 2500 1281 1527 888
n=2: 1003 1422 1935 2430 2540 3371 4733 2611 4550 3845 1776 2431 2997 4548 3302 5808 10K 8555 9138 6480 3173
n=3: 1554 2236 3235 2703 4399 6077 4753 5170 4735 2735 1893 6893 10K 4531 3109 7975 7684 1973 8413 9160
n=4: 2327 3505 3359 5151 7488 5908 9866 5705 2988 3105 4987 20K 5288 4213 4591 5350 2573 9016 7573
n=5: 3324 6079 6975 6647 3131 14K 8238 2999 11K

APPARENT POLARISABILITY (mV/V)

FILTER

	11+50 N	12+00 N	12+50 N	13+00 N	13+50 N	14+00 N	14+50 N	15+00 N	15+50 N	16+00 N	16+50 N
	3.8 4.2 4.1	3.6 3	3.4 5.2	8.3 11	13 11	6.8 7	10 16	21 28	27 19 17		

n=1: 2.7 4.5 4.2 3.8 2.9 2.4 1.5 3.2 8.5 8.9 9.7 -0.50 0.42 6.3 19 39 30 8.5 7.1 4.4
n=2: 3 4.5 4.9 3.8 2.5 1.7 2.9 6.7 16 18 -0.85 37 6.5 19 30 39 28 15 7.3
n=3: 3 4.5 4.9 3.4 1.4 1.8 2.4 6.9 16 14 9.2 8.1 3.7 24 28 28 25 15
n=4: 3.4 4.5 4.9 3.5 3.3 2.6 7.3 14 12 14 12 18 22 18 29 24
n=5: 3.3 4.8 5.8 15 12 15 13 16 21 16

INTERPRETATION

IP-06 [1]   IP-04 [4] ▲

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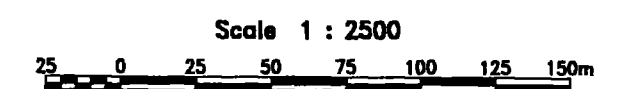
FILTER

	11+50 N	12+00 N	12+50 N	13+00 N	13+50 N	14+00 N	14+50 N	15+00 N	15+50 N	16+00 N	16+50 N
	95 92 82	62 48	45 75	126 183	223 186	92 80	150 226	273 358	396 272 212		

n=1: 100 159 130 107 88 55 29 66 136 148 260 215 -16 111 241 313 423 600 238 189 149
n=2: 94 113 112 32 100 230 485 237 190 125
n=3: 73 92 68 85 21 24 35 270 100 168 265 621 316 156
n=4: 71 72 36 38 33 74 227 244 160 91 110 306 301 276
n=5: 56 62 71 180 211 128 130 301 197

TOPOGRAPHY

RES 25K
IP 20
MF 400
MF 400
IP 20
RES 25K

TOPOGRAPHY

TOPOGRAPHY

INDUCED POLARIZATION SURVEY

Dipole–Dipole Array

Filter

a = 25 m
n = 1 to 5

plot point

APPARENT RESISTIVITY (ohm–m)

FILTER
7+00 N 7+50 N 8+00 N 8+50 N 9+00 N 9+50 N 10+00 N 10+50 N 11+00 N 11+50 N 12+00 N 12+50 N 13+00 N 13+50 N 14+00 N 14+50 N 15+00 N 15+50 N 16+00 N 16+50 N 17+00 N 17+50 N 18+00 N 18+50 N

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

APPARENT RESISTIVITY (ohm–m)

FILTER
n=1
n=2
n=3
n=4
n=5

Interpretation legend

4	3	2	1	?	polarisability
↓↓	↓	↑	↑↑		resistivity

very high high moderate weak marginal

very conductive conductive resistive very resistive

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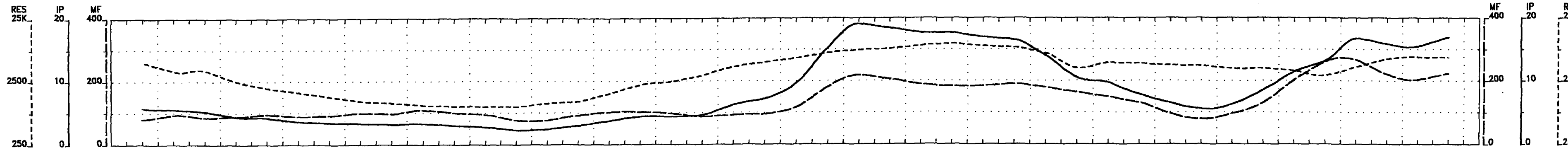Metal Factor: 2

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

APPARENT POLARISABILITY (mV/V)

FILTER
7+00 N 7+50 N 8+00 N 8+50 N 9+00 N 9+50 N 10+00 N 10+50 N 11+00 N 11+50 N 12+00 N 12+50 N 13+00 N 13+50 N 14+00 N 14+50 N 15+00 N 15+50 N 16+00 N 16+50 N 17+00 N 17+50 N 18+00 N 18+50 N

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

APPARENT POLARISABILITY (mV/V)

FILTER
n=1
n=2
n=3
n=4
n=5

Line 600W

Scale 1 : 2500

25 0 25 50 75 100 125 150m
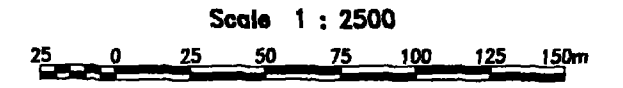
INTERPRETATION

IP-07
2

IP-06
1

IP-04
4

INTERPRETATION

SEDEX MINING CORPORATION

Welsh Stanwick Project
Powell Township
District of Matachewan

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

FILTER
7+00 N 7+50 N 8+00 N 8+50 N 9+00 N 9+50 N 10+00 N 10+50 N 11+00 N 11+50 N 12+00 N 12+50 N 13+00 N 13+50 N 14+00 N 14+50 N 15+00 N 15+50 N 16+00 N 16+50 N 17+00 N 17+50 N 18+00 N 18+50 N

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

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

FILTER
n=1
n=2
n=3
n=4
n=5

VAL D'OR SAGAX

Dipole–Dipole Array

Filter

a = 25 m
n = 1 to 5

plot point

TOPOGRAPHY

RES 25K

IP 20

MF 400

MF 400

IP 20

RES 25K

2500

200

10

10

200

2500

250

0

0

250

TOPOGRAPHY

Interpretation legend

very high	high	moderate	weak	marginal	
4	3	2	1	?	polarisability resistivity
↓↓	↓	↑	↑↑		

very conductive — conductive — resistive — very resistive

APPARENT RESISTIVITY (ohm-m)

FILTER

11+50 N   12+00 N   12+50 N   13+00 N   13+50 N   14+00 N   14+50 N   15+00 N   15+50 N   16+00 N   16+50 N

7737 8732 9520 9957 11K 11K 11K 10K 13K 13K 13K 13K 12K 11K 8977 6828 3918 1532 1430 1285

n=1 4148 8185 11K 5923 5541 11K 12K 11K 8668 8586 10K 12K 7971 4977 3842 4121 4850 4532 2763 1725 787 705
n=2 7096 7311 5881 9847 7226 10K 12K 8823 11K 19K 7852 12K 13K 5634 6140 9342 4802 1388 1653 1929 784
n=3 5850 5442 9878 13K 7823 11K 8388 12K 16K 14K 7947 17K 13K 6443 12K 8404 1130 837 1497 2388
n=4 4805 8710 12K 15K 8811 6822 11K 18K 12K 13K 10K 15K 19K 15K 10K 1725 672 760 1853
n=5 11K 17K 9050 11K 16K 21K 14K 990 971

APPARENT RESISTIVITY (ohm-m)

FILTER

APPARENT POLARISABILITY (mV/V)

FILTER

11+50 N   12+00 N   12+50 N   13+00 N   13+50 N   14+00 N   14+50 N   15+00 N   15+50 N   16+00 N   16+50 N

12 14 18 23 23 27 30 33 33 32 27 19 15 15 15 21 16 10 8.6

n=1 7.4 6.3 8.2 16 25 20 29 37 29 34 4 2.7 2.7 17 37 24 8.7 4 5.7
n=2 7.1 8.4 20 32 27 14 5.1 7 15 14 4.6 4.5
n=3 8.3 14 17 21 28 36 12 12 14 15 15 5.8
n=4 13 18 32 25 27 19 25 25 7.2 11
n=5 20 26 31 24 26 9.1 10

APPARENT POLARISABILITY (mV/V)

FILTER

INTERPRETATION

IP-06
4

IP-04
3

▲   ▲▲

INTERPRETATION

Line 500W

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

FILTER

11+50 N   12+00 N   12+50 N   13+00 N   13+50 N   14+00 N   14+50 N   15+00 N   15+50 N   16+00 N   16+50 N

137 149 191 243 232 266 285 335 300 290 242 180 130 133 185 258 405 425 280 251

n=1 115 89 90 203 341 190 237 284 458 312 333 302 56 44 42 245 547 462 161 145 214
n=2 84 98 170 204 232 289 286 352 314 180 181 323 679 458 105 161
n=3 108 186 175 180 312 265 322 364 139 138 131 206 233 402 512 398 118
n=4 163 194 159 206 344 317 275 342 231 156 156 200 247 325 279 399 376
n=5 187 225 272 289 364 203 164 280 288 334

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

FILTER

Contour interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
Polarisability: 0.5
Metal Factor: 2
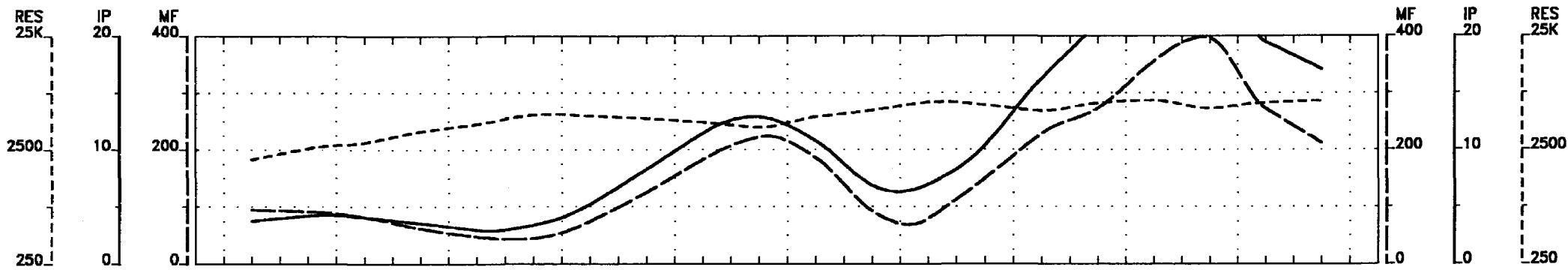
Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Scale 1 : 2500

25 0 25 50 75 100 125 150m

SEDEX MINING CORPORATION

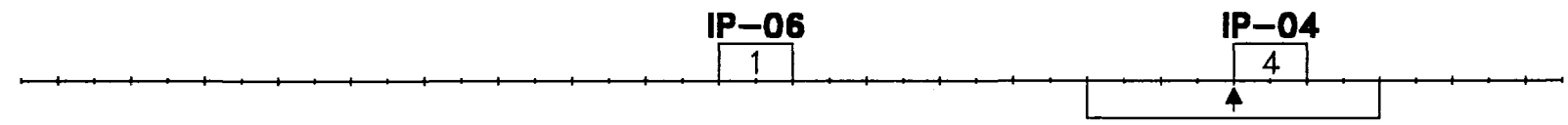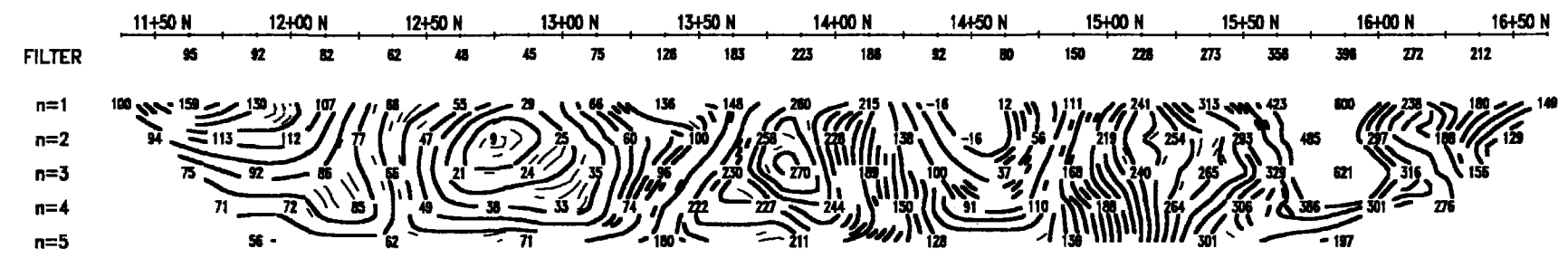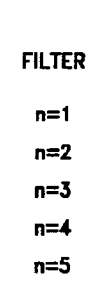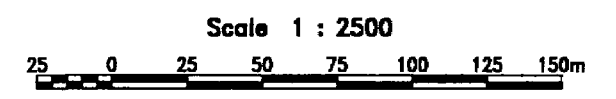**Welsh Stanwick Project
Powell Township
District of Matachewan**

VAL D'OR SAGAX

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array

Filter

a = 25 m
n = 1 to 4

plot point

Interpretation legend

4	3	2	1	?	polarisability
↓↓	↓	↑	↑↑		resistivity

very high · high · moderate · weak · marginal — polarisability

very conductive · conductive · resistive · very resistive — resistivity

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
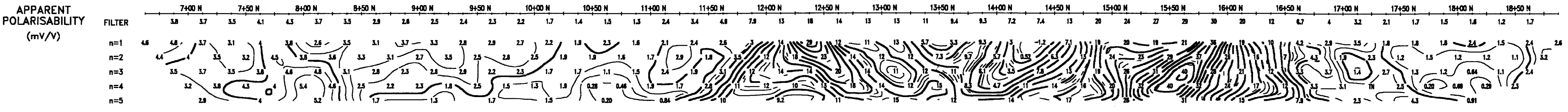Surveyed by: Jean Meunier
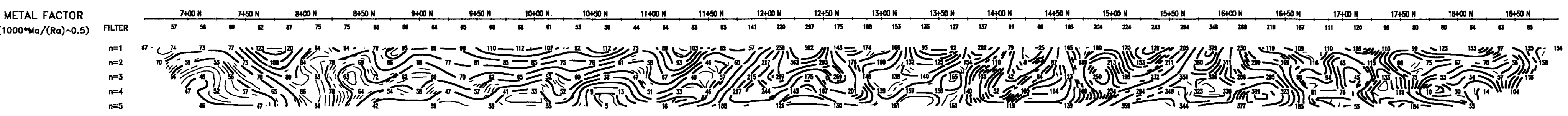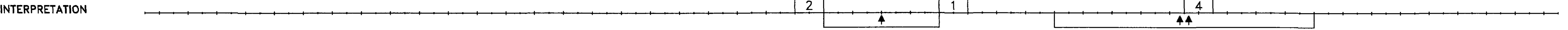Reference: 96-N125

VAL D'OR SAGAX

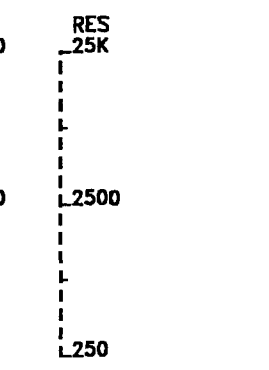RES 25K · IP 20 · MF 400 ... MF 400 · IP 20 · RES 25K

TOPOGRAPHY

APPARENT RESISTIVITY (ohm-m)

FILTER

Station	10+50 N	11+00 N	11+50 N	12+00 N	12+50 N	13+00 N	13+50 N	14+00 N	14+50 N	15+00 N	15+50 N	16+00 N	16+50 N	17+00 N	17+50 N	18+00 N

APPARENT POLARISABILITY (mV/V)

INTERPRETATION

IP-06 — 4
IP-04 — 3
IP-08 — 2

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

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array

Filter

a = 25 m
n = 1 to 5

plot point

Interpretation legend

very high	high	moderate	weak	marginal
4	3	2	1	?	polarisability resistivity
↓↓	↓	↑	↑↑	

very conductive — conductive — resistive — very resistive

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

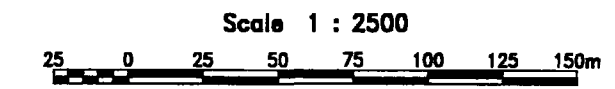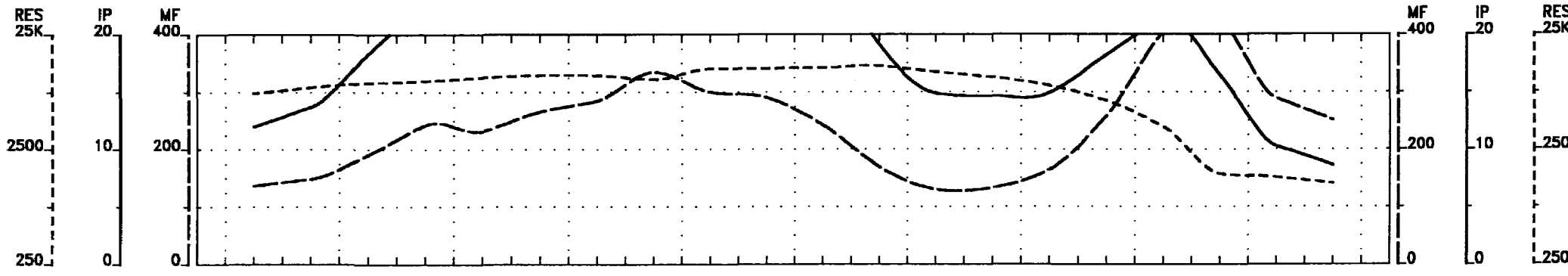## SEDEX MINING CORPORATION

Welsh Stanwick Project
Powell Township
District of Matachewan

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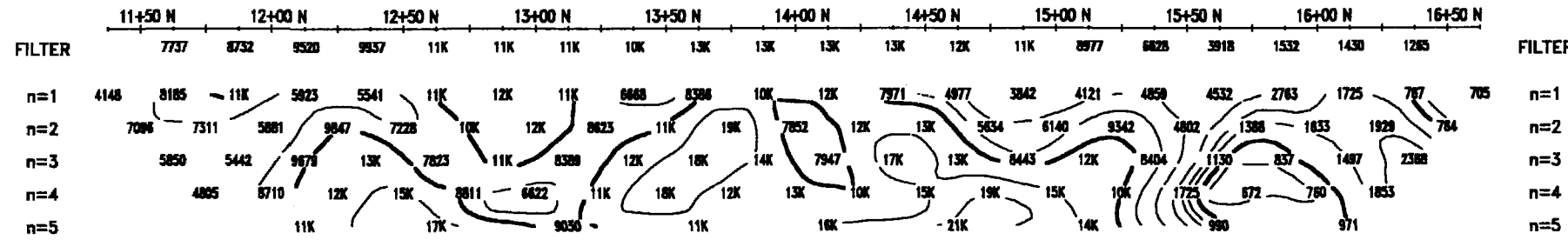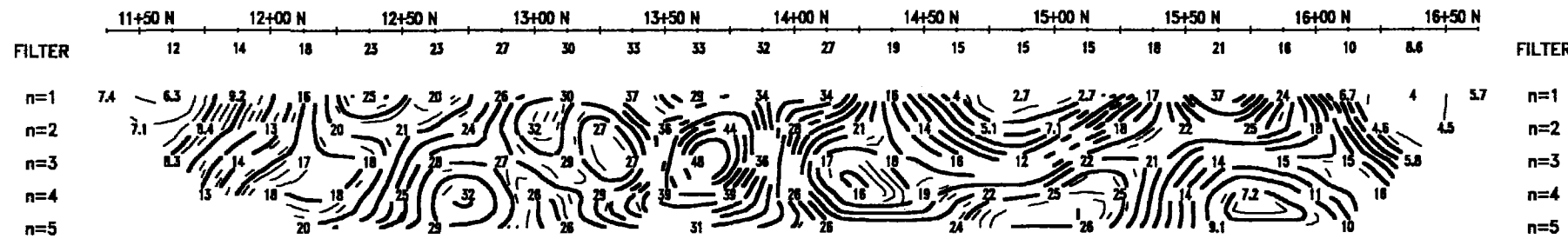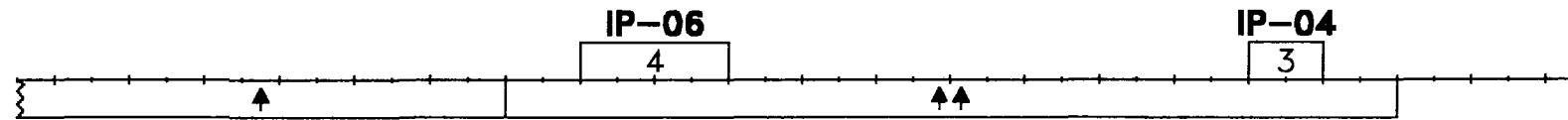Surveyed by: Jean Meunier
Reference: 96-N125

VAL D'OR SAGAX

TOPOGRAPHY

RES 25K — IP 20 — MF 400
2500 — 10 — 200
250 — 0 — 0

APPARENT RESISTIVITY (ohm-m)

FILTER

	11+50 N	12+00 N	12+50 N	13+00 N	13+50 N	14+00 N	14+50 N	15+00 N	15+50 N	16+00 N	16+50 N
	23K	14K	15K	11K	8812	7563	5061	3505	3148	2815	2788	2317	2456	2220	2287	2100	1989	672	847	861

n=1 18K 12K 4842 7901 4814 10K 11K 7399 3721 3755 2413 2453 1731 2347 1285 1531 1781 4475 835 806 527 622
n=2 39K 6004 8329 13K 5577 11K 7881 5028 2933 2602 3447 2290 2150 2348 1830 2144 2852 469 906 1277 636
n=3 15K 13K 12K 17K 4809 7426 5385 3761 1987 3950 3142 2511 1899 2639 2955 3721 287 497 1226 1413
n=4 30K 18K 14K 15K 3058 4889 3928 2604 3197 3451 3031 2024 1857 4368 5424 308 343 671 1258
n=5 41K 11K 1972 2641 2744 2220 2808 472 536

APPARENT POLARISABILITY (mV/V)

FILTER

	11+50 N	12+00 N	12+50 N	13+00 N	13+50 N	14+00 N	14+50 N	15+00 N	15+50 N	16+00 N	16+50 N
	19	18	15	17	22	28	33	30	23	18	14	8.7	6.3	5.8	4	4.5	6.6	7.6	10	11

n=1 28 20 14 5.9 9.4 26 35 32 27 18 14 8.2 2.4 3.5 3.6 3.7 4.3 10 8.2 11 8.6 9.4
n=2 21 16 14 8.1 24 38 38 26 18 14 10 2.5 5 3.4 3.1 6.9 4.9 11 10
n=3 16 17 13 22 34 36 26 21 13 17 4.1 5.4 3 14 11 14
n=4 18 15 13 32 33 32 26 24 13 17 9.8 7.8 3.5 0.70 TN 14
n=5 20 29 28 23 24 15 4.6 TN 7.2

INTERPRETATION

IP-06
4

IP-08
2
↓↓

↑↑ ↑

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

FILTER

	11+50 N	12+00 N	12+50 N	13+00 N	13+50 N	14+00 N	14+50 N	15+00 N	15+50 N	16+00 N	16+50 N
	140	171	130	213	287	370	487	521	423	341	250	174	128	123	73	107	190	280	350	357

n=1 213 179 197 67 135 153 248 412 530 356 332 185 59 57 100 94 103 148 282 391 374 577
n=2 107 208 204 72 198 219 425 550 563 304 223 206 53 104 80 66 172 270 435 387 400
n=3 134 151 159 100 313 385 489 553 550 232 241 210 79 96 96 172 646 311 362
n=4 100 142 185 163 573 466 505 504 416 277 242 271 76 85 106 -183 38 381
n=5 98 271 642 448 464 310 86 310

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array

Filter

a = 25 m
n = 1 to 4

plot point

Interpretation legend

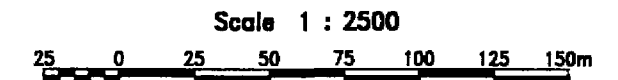|	very high	high	moderate	weak	marginal	
	4	3	2	1	?	polarisability resistivity
	↓↓	↓	↑	↑↑		

very conductive — conductive — resistive — very resistive — marginal

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

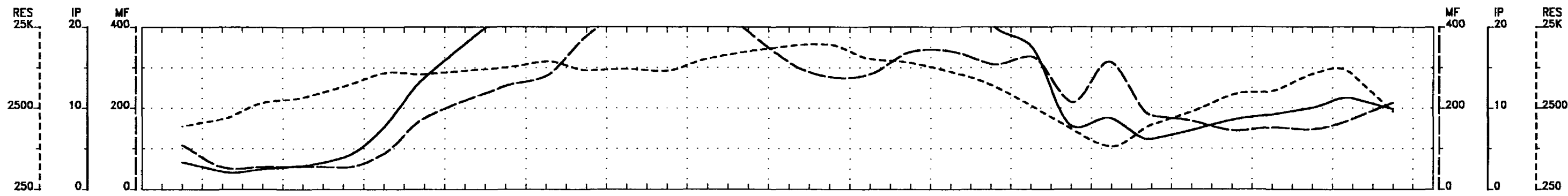Instruments: IRIS ELREC-6, PHOENIX IPT-1, MG-1

Line 200W

Scale 1 : 2500

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
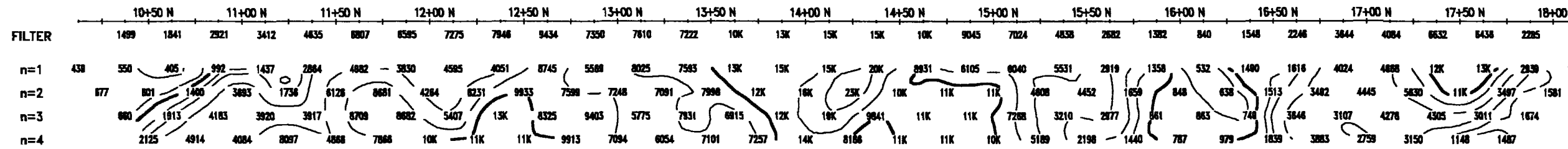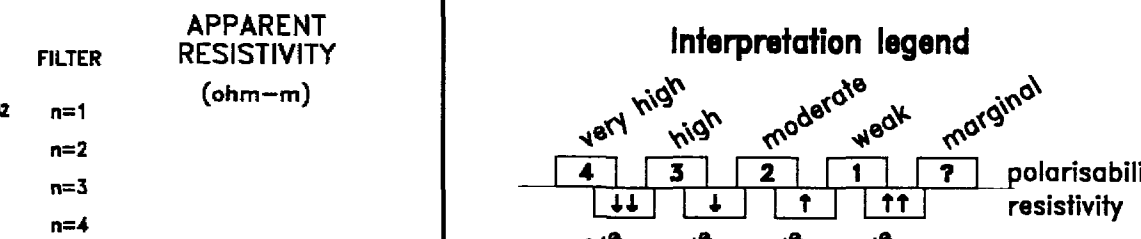Surveyed by: Jean Meunier
Reference: 96-N125

VAL D'OR SAGAX

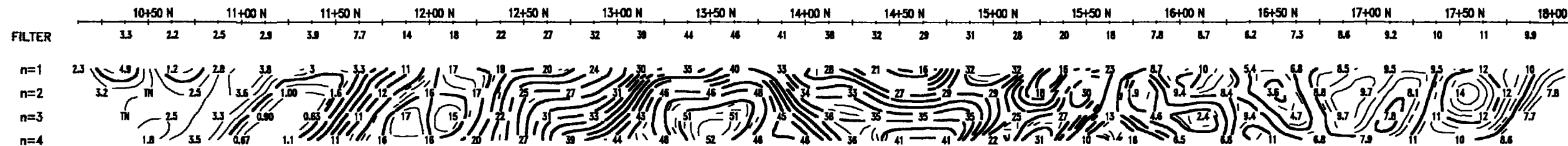RES 25K   IP 20   MF 400

TOPOGRAPHY

APPARENT RESISTIVITY (ohm-m)

Station	13+00 N	13+50 N	14+00 N	14+50 N	15+00 N	15+50 N	16+00 N	16+50 N	17+00 N	17+50 N	18+00 N	18+50 N
	2983 2622	2425 3411	3240 2756	2032 1809	1236 1128	952 874	1006 1192	1552 4813	7030 3107	842 869	738 867	1096

FILTER												
n=1	1463 1042 1430	1872 3830	2841 4138 4352	1759 646	862 680	497 478	397 970	10K 17K	5726 1198	611 118	98 272	847
n=2	2881 2738 1921	1940 5531	3538 1327	1435 2158	710 992	777 781	571 1297	1778 8315	7368 971	504 374	248 495	261
n=3	5833 2866 1813	3173 6085	1231 724	1467 2312	757 975	854 847	1681 2124	1719 3471	1272 877	311 817	983	485
n=4	5150 2500 2425	3494 1970	854 777	1418 2462	746 1178	1002 2256	2426 1880	902 573	863 584	712 5158	662	

APPARENT POLARISABILITY (mV/V)

Station	13+00 N	13+50 N	14+00 N	14+50 N	15+00 N	15+50 N	16+00 N	16+50 N	17+00 N	17+50 N	18+00 N	18+50 N
	4.1 3.6	4 4.5	4.6 5.3	5.2 7	7.6 8.6	9.7 9.6	9.7 9.1	9.1 11	13 15	13 8.6	9.3 11	18

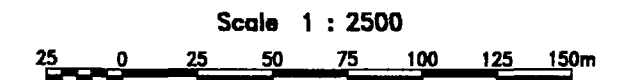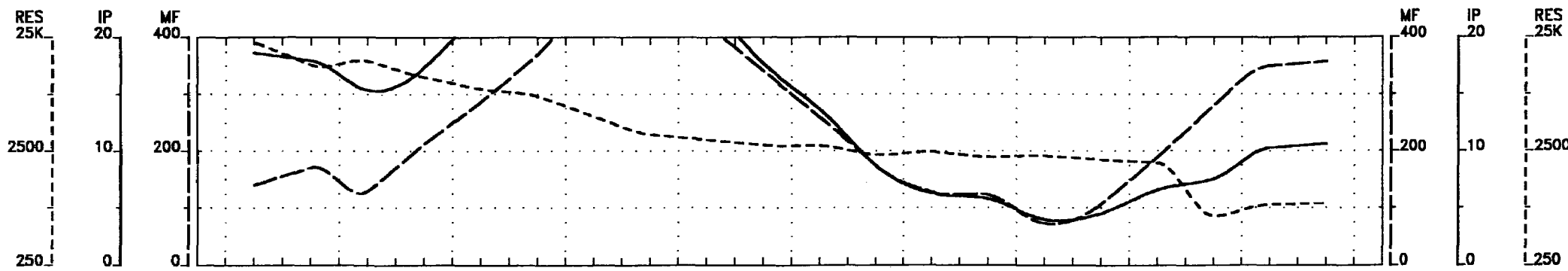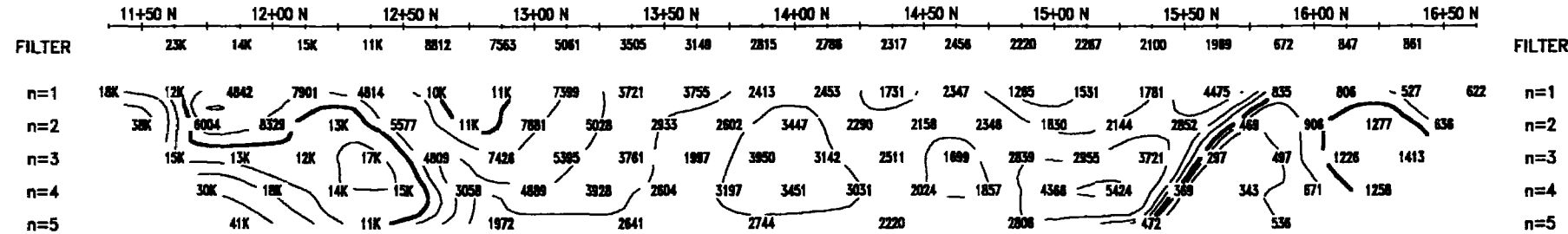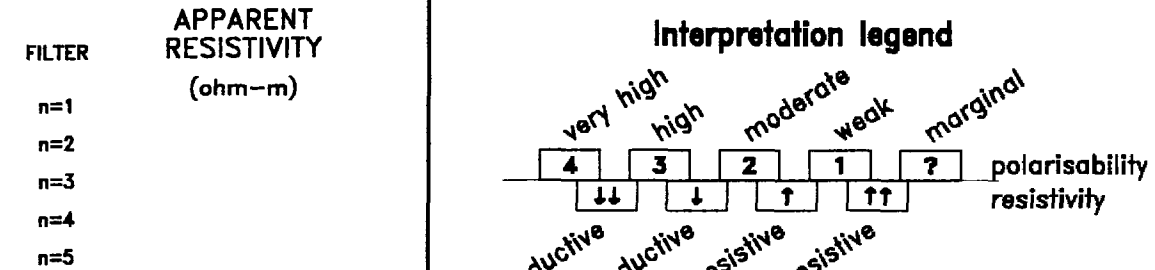| FILTER												
n=1	4.3 3.5 2.8	4.3 5.2	4.8 5.1	4.2 6.3	6.8 6.8	6.7 6	4.6 4.6	7.6 4.6	3.1 5.4	21 30		
n=2	4.7 3.6	5 4.5	5.2	6.3 8	6.5 8.3	9.5 9	7.9 7.5	9.5 8	17 3.6	5 19		
n=3	4.7 4.2 3.2	5.4	6 7.5	9.3 10	11 11	10 20	15 8.4	7.8 16	16			
n=4	5.3 3.6 2.4	5.2	3.9 6.8	10 10	12 13	12 12	18 13	7N 5.2 22	20			

INTERPRETATION

IP-08 [2 ↓↓]   IP-10 [2] ↑   IP-09 [2 ↓↓]

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

Station	13+00 N	13+50 N	14+00 N	14+50 N	15+00 N	15+50 N	16+00 N	16+50 N	17+00 N	17+50 N	18+00 N	18+50 N
	82 73	84 80	98 120	136 177	241 275	324 338	323 282	235 226	283 362	458 323	432 456	814

FILTER												
n=1	112 107 75	100 100	64 148	246 231	306 300	275 232	146 75	54 200	292 125 502	173	1255 1034	
n=2	87 88 61	113	04 133	161 319	265 344	345 263	206 552	539 188	450 679	1164		
n=3	80 50 70	141	72 185	338 327	359 263	221 256	505 388	479 267 509	749			
n=4	74 72	73	72 71	138 180	204 370	338 411	263 242	286 599	556 219	817 237	664	

Transaction Number (office use)
J9790 00254

Assessment Files Research Imaging

SDN: Welsh/Stanwick

6(3) of the Mining Act. Under section 8 of the
...rk and correspond with the mining land holder.
...orthern Development and Mine . 6th Floor,

ersonal information cc
...ining Act, the informat
...uestions about this
...33 Ramsey Lake Roa

41P15NE0021 2.17203 POWELL

900

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

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

Name	Client Number
Tom Obradovich / 2973090 Canada Inc	177382 / 300337
Address P.O. Box 1146	Telephone Number (705)567-6883
KIRKLAND LAKE, Ontario P2N 3M7	Fax Number (705) 567-6873
Name ~~blacked out~~	Client Number ~~blacked out~~
Address ~~blacked out~~	Telephone Number ~~blacked out~~
~~blacked out~~	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

Work Type	Office Use	
Induced Polarization	Commodity	
	Total $ Value of Work Claimed	9887
Dates Work Performed From 17 11 96 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.

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

Name	Telephone Number
Val d'Or Sagax	(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

RECEIVED
APR 9 1997
MINING LANDS BRANCH

Certification by Recorded Holder or Agent

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

Signature of Recorded Holder or Agent	Date April 01/97
Address P.O. Box 1146	Telephone Number (705) 567-6883	Fax Number (705) 567-6873

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

2.17203

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.
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	
3	511488 -	1	1746 -	400 -	1346 -	
4	511489 -	1	2127 -	400 -	240 -	81487 -
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	$1487

I, __Tom Obradovich__ , do hereby certify that the above work credits are eligible under
(Print Full Name)

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 _____ 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 ~~backwards~~ for; 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):

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

APR 1 1997

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

0241 (02/96)

Ontario Northern Development and Mines — **Assessment Work on Mining Land**

W9780 00454

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 —	—	2.172C3
	1206147	1	—	400 —	—	
	1206148	1	—	400 —	—	
	1206156	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	81487

RECEIVED
APR 9 1997
MINING LANDS BRANCH

0290 (02/96)

Ontario
Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

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			160.00

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__ , do hereby certify, that the amounts shown are as accurate as may
(please print full name)

reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on

the accompanying Declaration of Work form as ___Obradovich Agent___ I am authorized
(recorded holder, agent, or state company position with signing authority)

to make this certification.

Signature	Date
Obradovich	April 01, 1997

0212 (02/96)

(🏵️) **Ontario**

June 19, 1997

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

Dear Sir or Madam: Submission Number: 2.17203

Status

Subject: Transaction Number(s):   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   *117874*
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   *207586*
79 Gov't Road East, Apt. 4
Kirkland Lake, Ontario P2N 1A6

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

200

Ontario Ministry of Natural Resources / Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN
G-3218

TOWNSHIP
POWELL

M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE

MINING DIVISION
LARDER LAKE

LAND TITLES/REGISTRY DIVISION
TIMISKAMING

RECEIVED APR 1997 MINING LANDS BRANCH

Scale 1:20 000

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
	W-L-18/95	MAR. 30/95	M+S	
	W-L-19/95	MAR. 30/95	M+S	
	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

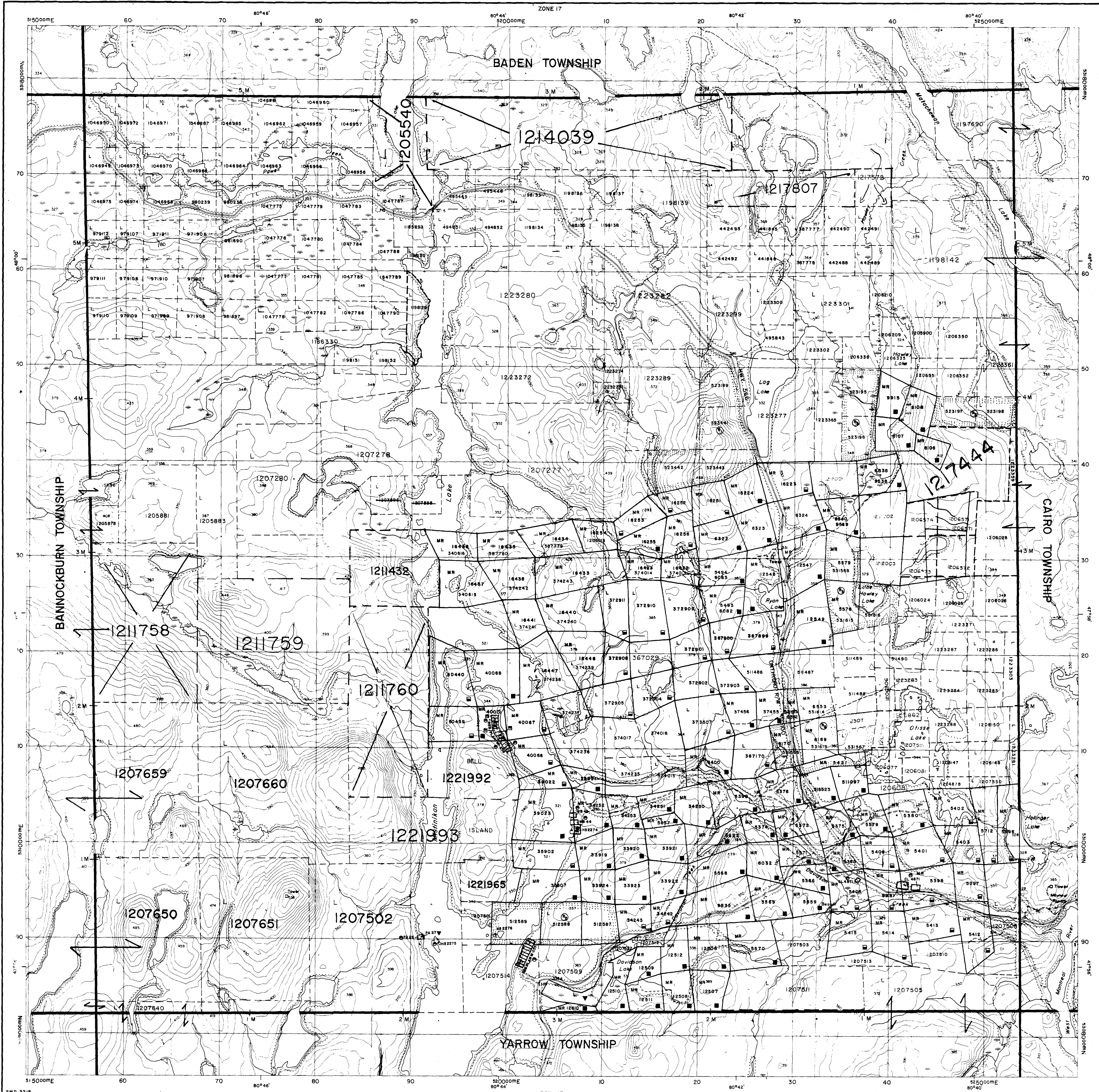L.O. 7601 COVERS FLOODING RIGHTS IN THIS TOWNSHIP TO CONTOUR 670 TO ONTARIO HYDRO. FILE 12290 VOL. 2.

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

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 is compiled for administrative purposes only.
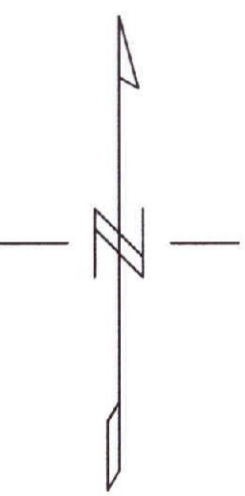
BADEN TOWNSHIP
YARROW TOWNSHIP
BANNOCKBURN TOWNSHIP
CAIRO TOWNSHIP
ZONE 17

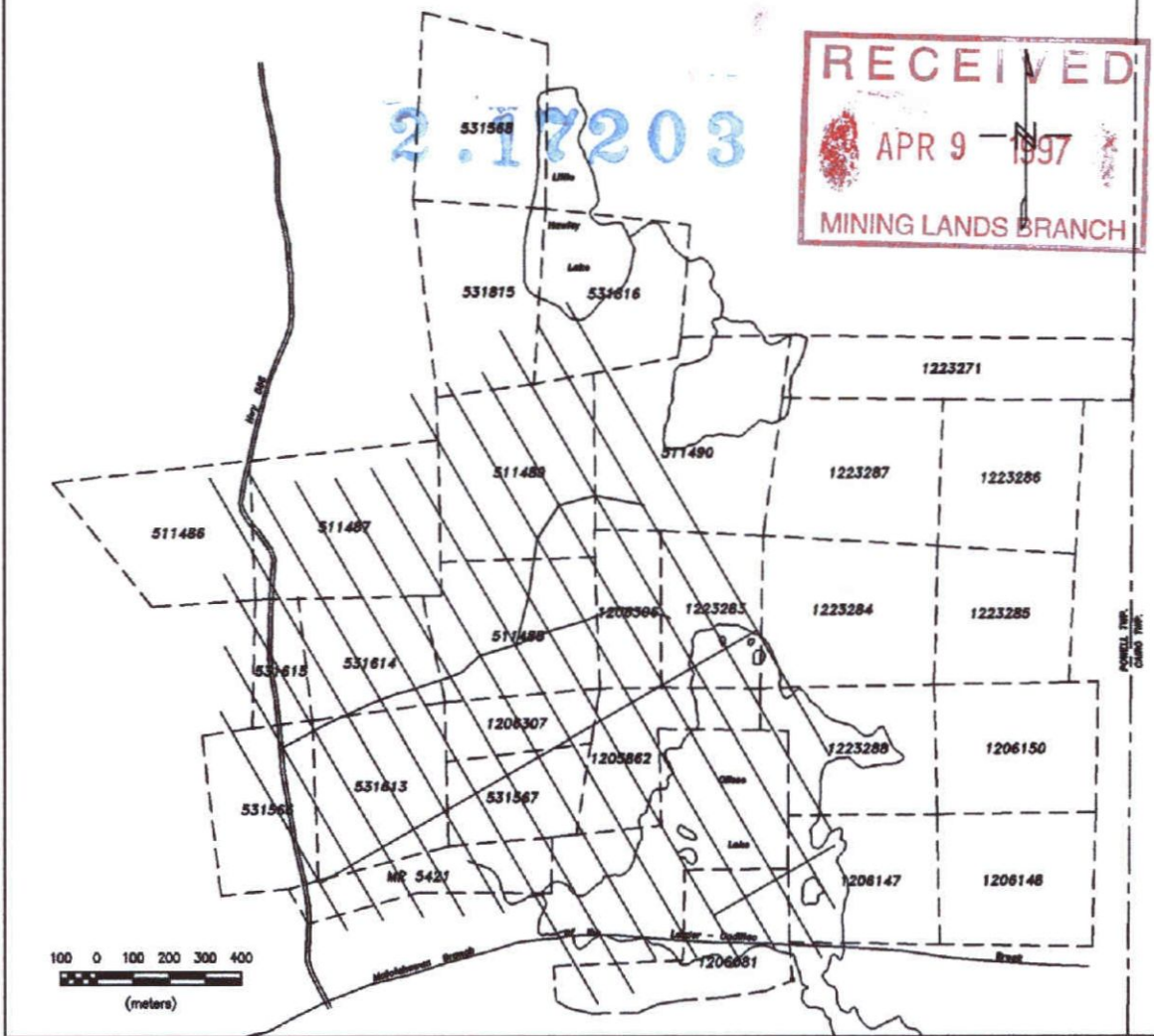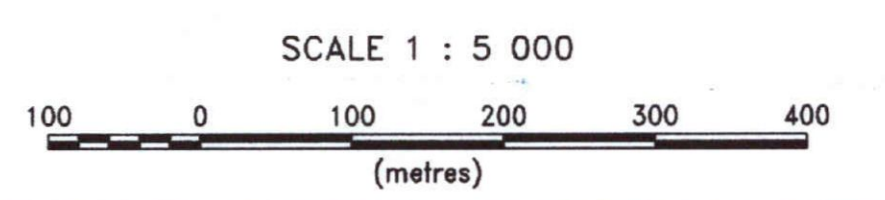LEGEND

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.

RECEIVED
APR 9 1997
MINING LANDS BRANCH

2.17203

531568

Little

Hawley

Lake

531815   531816

531815

1223271

511490

511489

1223287   1223286

511486   511487

511488

1223283   1223284   1223285

1206306

531615   531614

1206307

531613

1205862

531566   531567

Otisse

Lake

1223288   1206150

MR 5421

1206147   1206148

Matatchewan   Branch

of the   Larder – Cadillac   Break

1206081

Hwy 566

BASELINE

BASELINE

POWELL TWP.
CAIRO TWP.

2000N
1900N
1800N
1700N
1600N
1500N
1400N
1300N
1200N
1100N
1000N
800N
700N
600N
500N
400N

TL 250 N

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
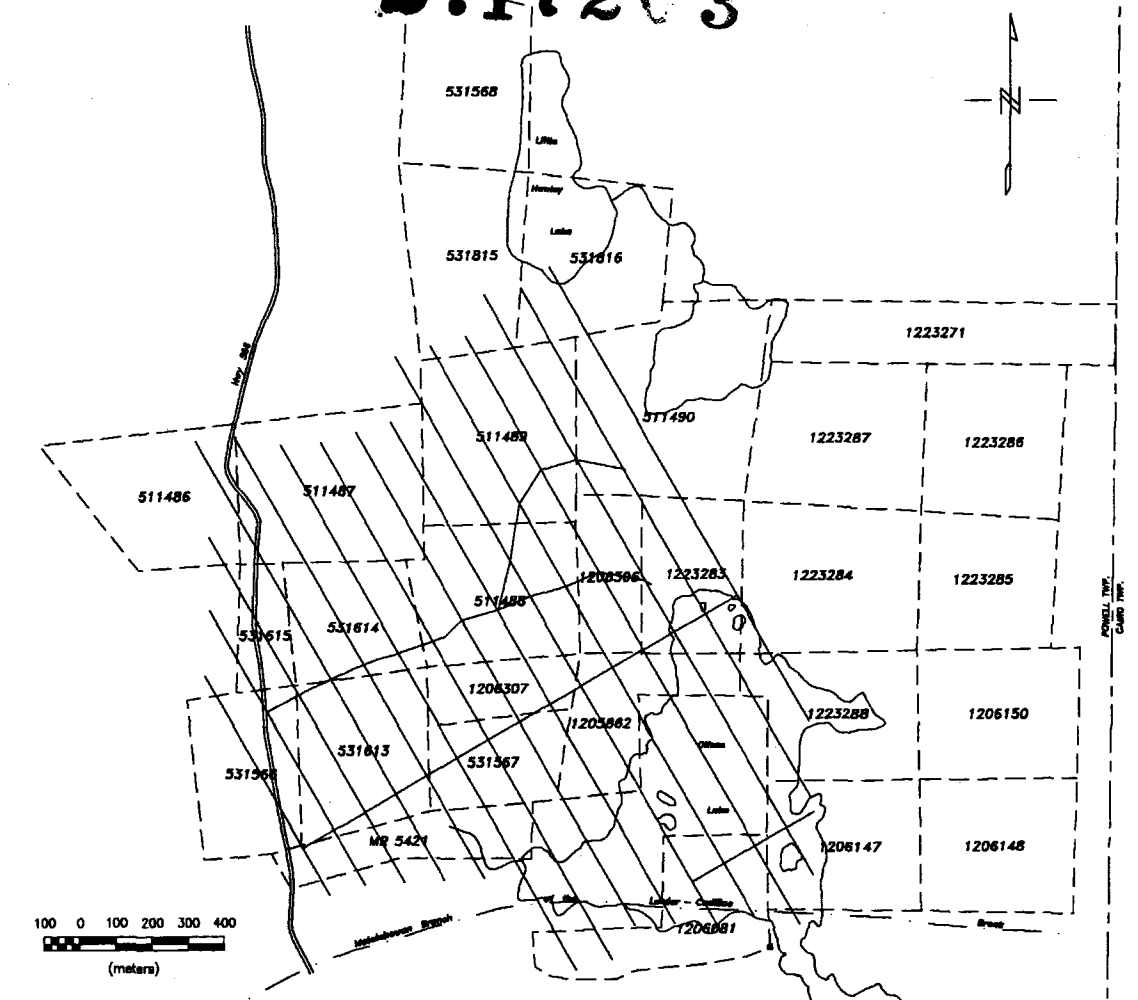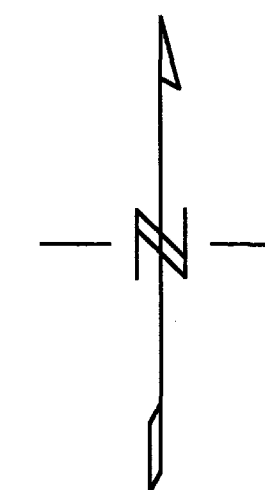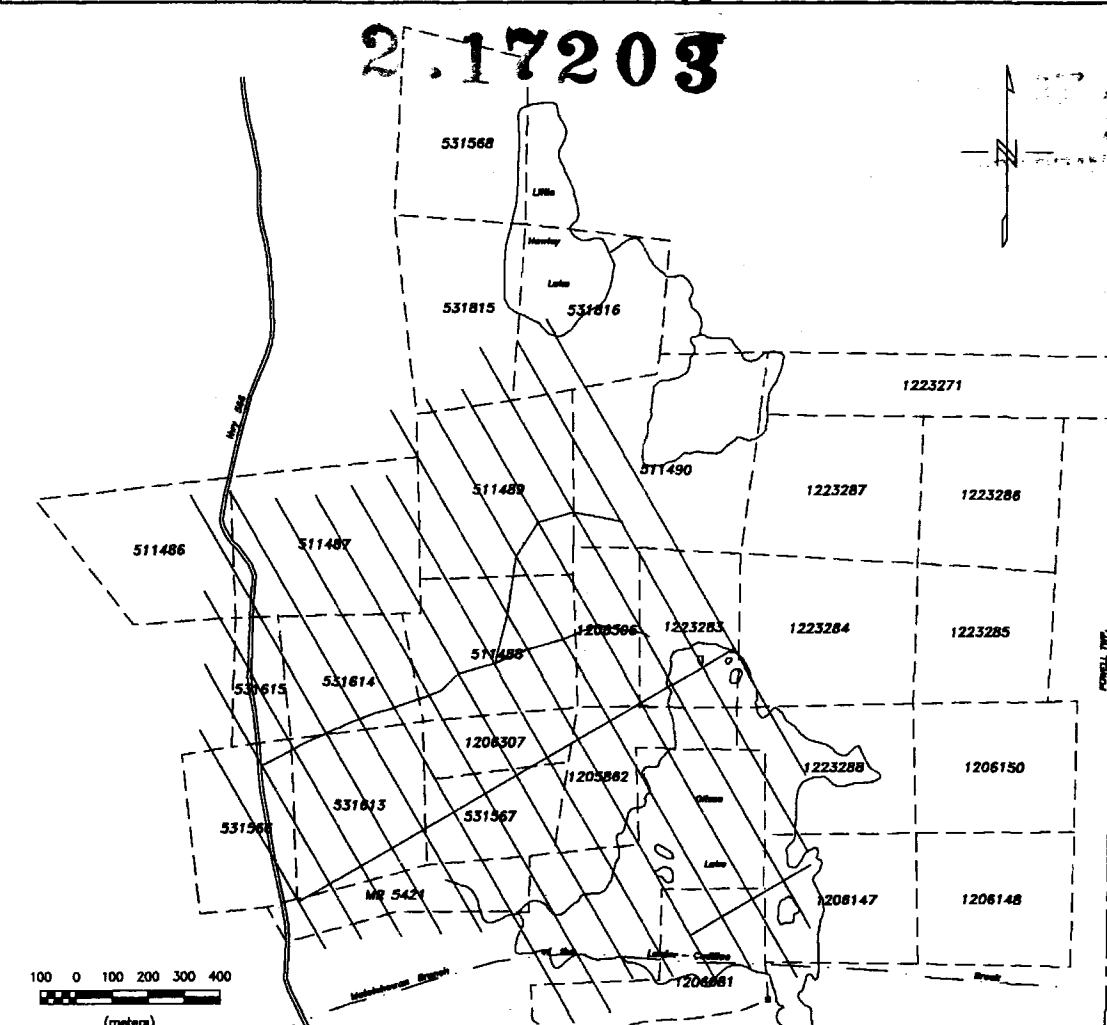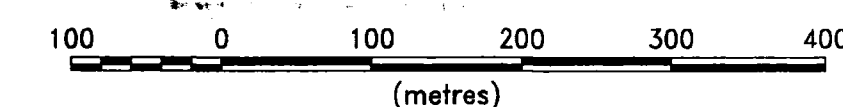
SCALE 1 : 5 000

100   0   100   200   300   400
(metres)

2.17203

Little Hawley Lake

Otisse Lake

Larder - Cadillac Break

Matatchewan Branch of the

Hwy 566

BASELINE

POWELL TWP.
CAIRO TWP.

MP 5421

531568
531815   531816
1223271
511490
511489
511486   511487
1223287   1223286
531615   531614   511488   1206306   1223283   1223284   1223285
531613   531567   1206307   1206862   1223288   1206150
531566
1206147   1206148
1206081

2000N 1900N 1800N 1700N 1600N 1500N 1400N 1300N 1200N 1100N 1000N 800N 700N 600N 500N 400N

TL 250 N