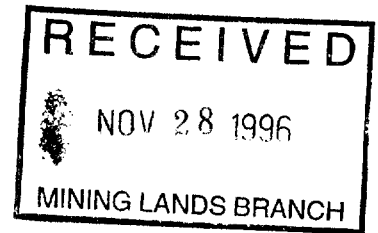




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**A REPORT ON ELECTROMAGNETIC AND  
INDUCED POLARIZATION SURVEYS**  
performed on the  
**MUNRO PROSPECT**  
**MATHESON AREA, ONTARIO**  
submitted to  
**TRINITY EXPLORATIONS**  
Val-d'Or, Quebec  
96-N068    October 1996

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## **SUMMARY**

From September 3<sup>rd</sup> to 13<sup>th</sup>, 1996, an horizontal-loop EM survey (35,9 line-kilometres) and an induced polarization and resistivity survey (26,4 line-kilometres) were performed on behalf of TRINITY EXPLORATIONS on the Munro Prospect located in Munro Township, in Northern Ontario.

The HLEM survey detected one good conductor which coincides with the strongest of the nine weak to strong IP anomalies outlined on the property.

Recommendations for further work consist of complementary IP surveys followed by diamond drilling to test the best geophysical responses.

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## APPENDICES

### **PSEUDOSECTIONS** (at a scale of 1 : 2400)

Pole-dipole (16) and dipole-dipole array (4) pseudosections of the apparent resistivity, apparent chargeability and metal factor.

### **MAPS AT A SCALE OF 1 : 3600** (inside plastic jacket)

#### HLEM survey results:

(survey performed at a cable length of 500 feet)

96-N068-3.2 : In-phase and quadrature readings and profiles (444 Hz)

96-N068-3.4 : In-phase and quadrature readings and profiles (1777 Hz)

96-N068-3.5 : In-phase and quadrature readings and profiles (3555 Hz)

#### IP survey results:

96-N068-4.2 : Contours and readings of the apparent resistivity (Fraser filter values)

96-N068-4.3 : Contours and readings of the apparent chargeability (Fraser filter values)

96-N068-7.0 : Geophysical interpretation

### **COLOR COPIES** (one copy submitted separately)

- IP (pole-dipole) pseudosections at a scale of 1 : 2400
- Maps at a scale of 1 : 3600
  - 96-N068-4.2c : Contours of the apparent resistivity (Fraser filter values)
  - 96-N068-4.3c : Contours of the apparent chargeability (Fraser filter values)

## **1. INTRODUCTION**

At the request of Mr. Glenn J. Mullan, Project Geologist with Trinity Exploration, VAL D'OR SAGAX Inc. has performed a combined horizontal loop electromagnetic (HLEM) and induced polarization (IP) survey over the Munro Prospect located 25 kilometres, as the crow flies, north-east of Matheson, Ontario (figure 1, page 6). A total of 35,9 km of HLEM and a total of 26,4 km of IP were surveyed over this property from September 3rd to 13th, 1996.

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

## **2. THE MUNRO PROSPECT**

### **2.1 Location and Access**

The Munro Prospect is located 25 kilometres, as the crow flies, north-east of Matheson, Ontario (NTS 42A/09). Access to the property is excellent via well maintenance gravel road extending north from Highway # 110 to the Hedman Mine. The secondary roads and trails provide access to mostly all claims within the property (figure 1, page 6).

### **2.2 Description**

The Munro Prospect consists of 17 mining claims owned at 100% by Trinity Exploration, located in the east-central Munro Township, in Northern Ontario (figure 2, page 7). Every claims were totally or partially covered by the present field work.

Figure 1: General location map

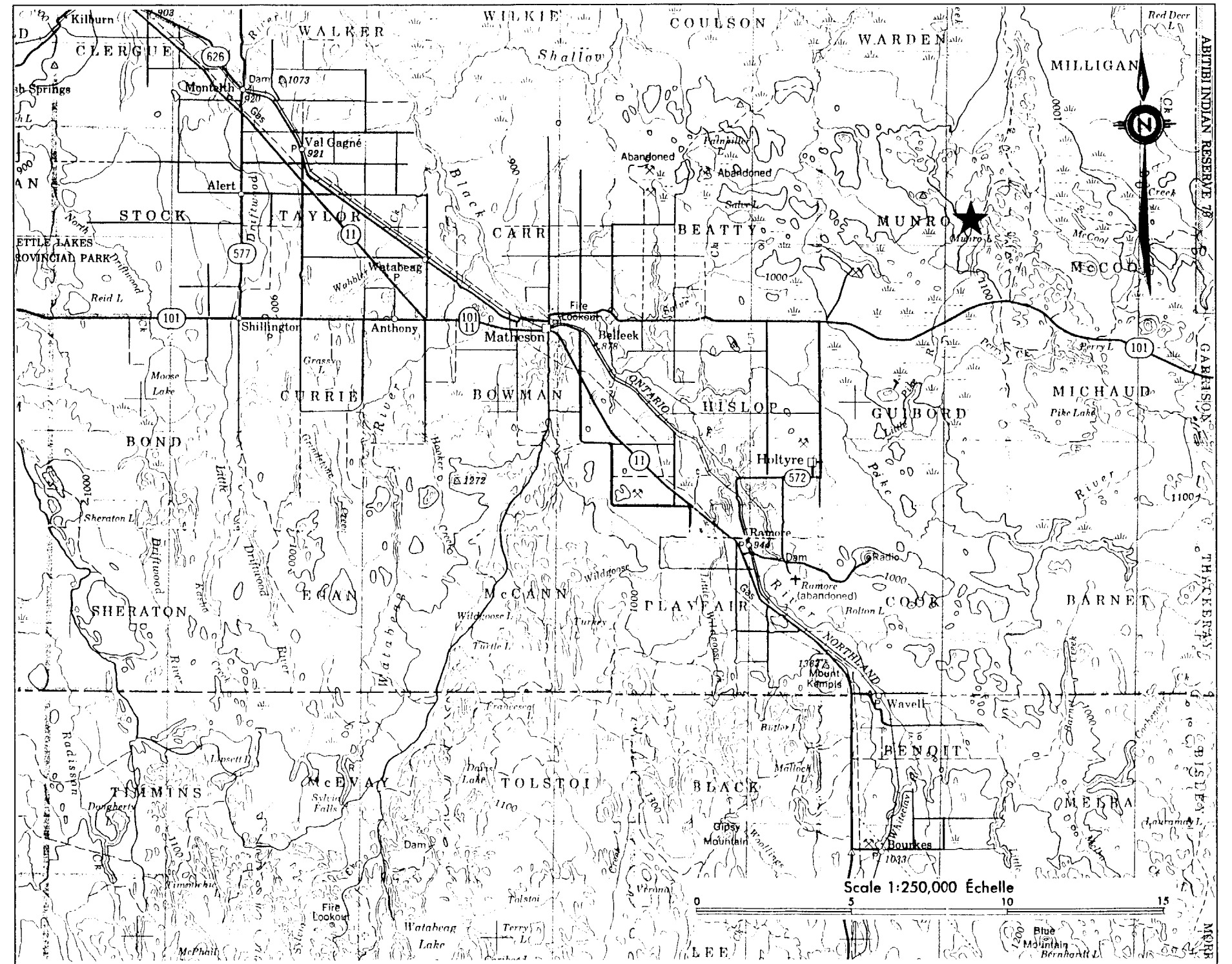
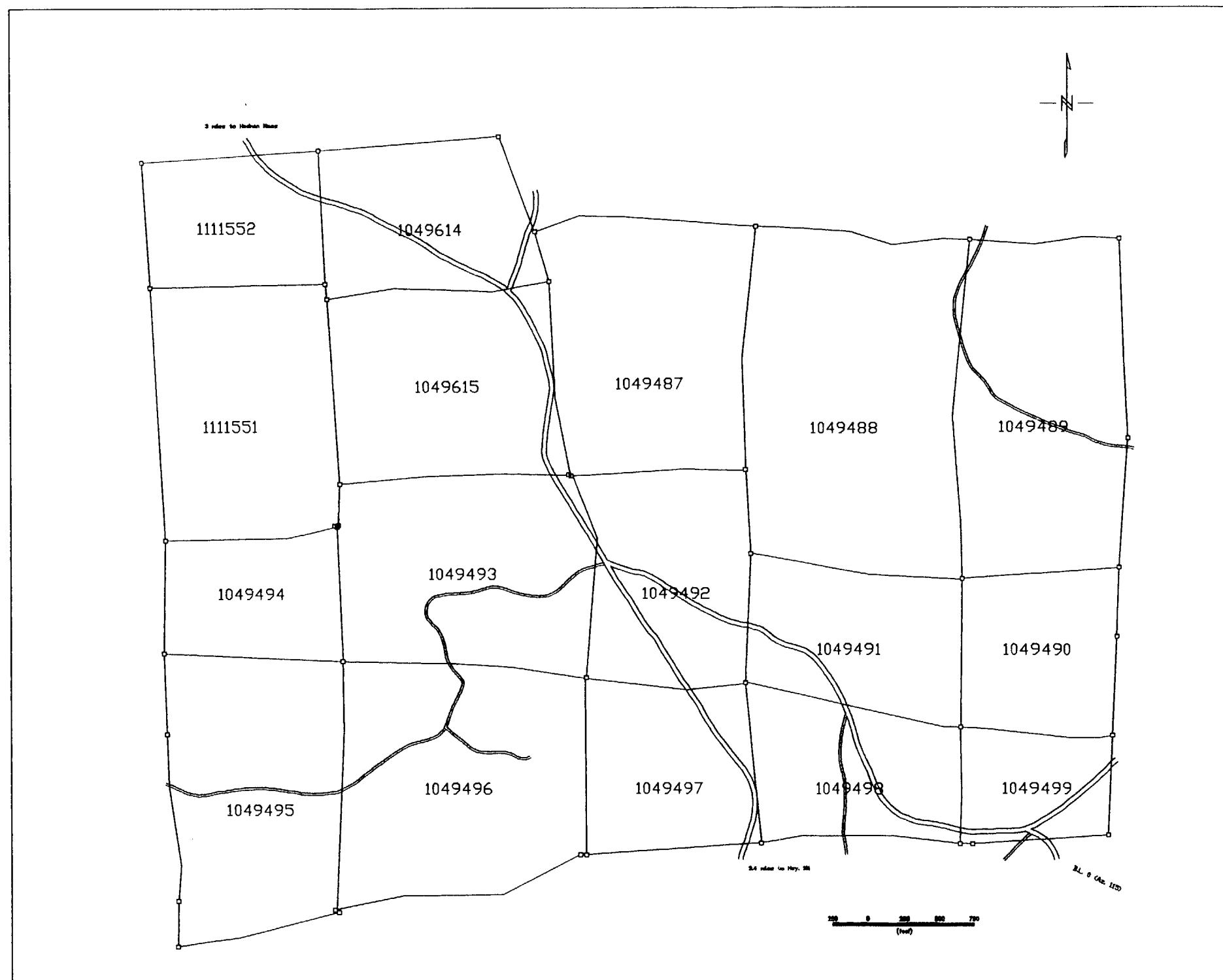


Figure 2: Claim map





### 2.3 Survey Grid

Along the baseline (BL 0+00), a total of 28 survey lines striking N 25° were cut every 150 or 300 feet from L36+00E to L33+00W (figure 3, page 9). All these survey lines have different extensions (reaching the property borders) and were regularly picketed and chained every 100 feet.

## 3. TECHNICAL SPECIFICATIONS OF SURVEYS COMPLETED

### 3.1 Generalities

A total of 35,9 kilometres of HLEM and 26,4 kilometres of IP (4,2 km of dipole-dipole and 22,2 km pole-dipole array) were surveyed from September 3rd to 13th, 1996 (Table 1). The HLEM survey was performed by Mr. Paul Melançon assisted by one worker, while the IP survey was carried out by Mr. Luc Bilodeau, assisted by five other workers.

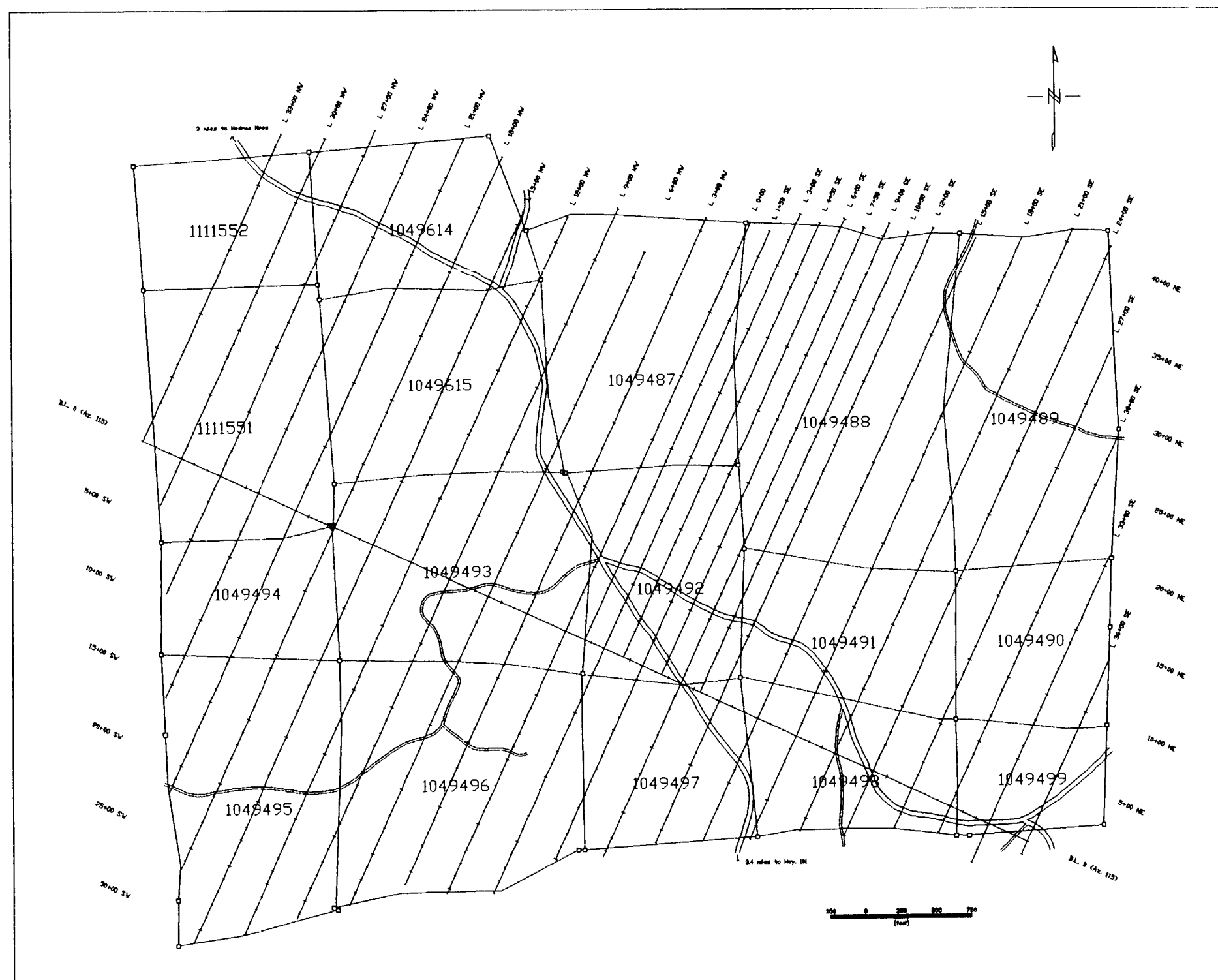
**Table 1 : HLEM and IP coverage performed over the Munro Prospect**

Geophysical Technique	Coverage	Date
HLEM survey (500 foot cable)	35,9 km	From September 9th to 13th, 1996
IP survey (dipole-dipole array)	4,2 km	September 3rd and 4th, 1996
IP survey (pole-dipole array)	22,2 km	From September 5th to 11th, 1996

### 3.2 Horizontal Loop Electromagnetic Survey (HLEM)

An horizontal loop electromagnetic system, model MaxMin I from Apex Parametrics, was used to perform this survey. The receiver and the transmitter were 500 feet apart with the following frequencies : 444, 1777, and 3555 Hz. The readings were taken every 100 feet along survey lines using an electronic notebook model MMC. All data was corrected for topographic and geometric variations.

Figure 3: Survey grid



### 3.3 Induced Polarization Survey

#### 3.3.1 The Dipole-Dipole Array

The dipole-dipole array (figure 4) was used for the investigation of 4 IP lines (L1+50E, L4+50E, L7+50E and L10+50E) performed over the Munro Prospect. The nominal spacing  $a$  between the electrodes was set at 100 feet and the separation  $n$  between dipoles ranged from 1 to 6.

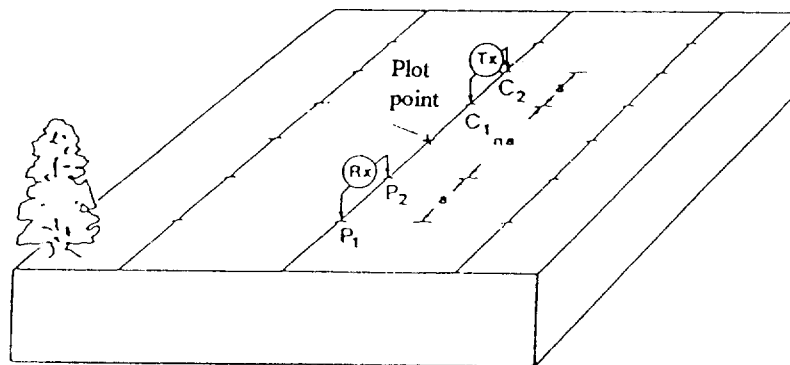


Figure 4 : The dipole-dipole array

#### 3.3.2 The Pole-Dipole Array

The pole-dipole array was used (see figure 5) for the investigation of 22,4 kilometres of line coverage performed over Munro Prospect. The nominal spacing  $a$  between the electrodes was set at 100 feet and the separation  $n$  between dipoles ranged from 1 to 6.

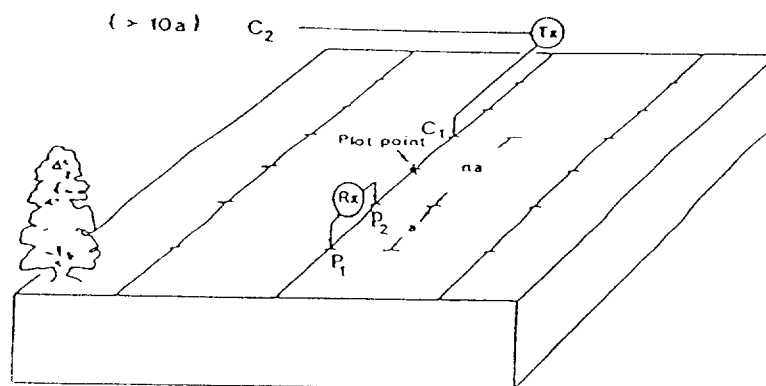


Figure 5 : The pole-dipole array

### 3.3.3 Equipment

The induced polarization equipment used 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 6).

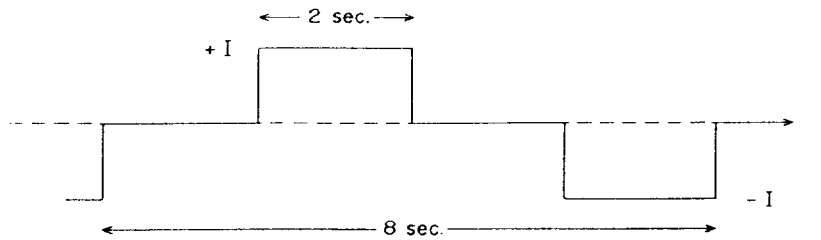


Figure 6 : The transmitted signal at  $C_1-C_2$

The primary voltage  $V_p$  and the apparent chargeability  $M$  were measured with an Iris Instrument ELREC-6 receiver. The integration of the transient voltage after current shut-off was performed in 10 gates of 160 ms each (figure 7).

The parameters  $M_1$  to  $M_{10}$  were 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 could 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 at the receiver dipole.

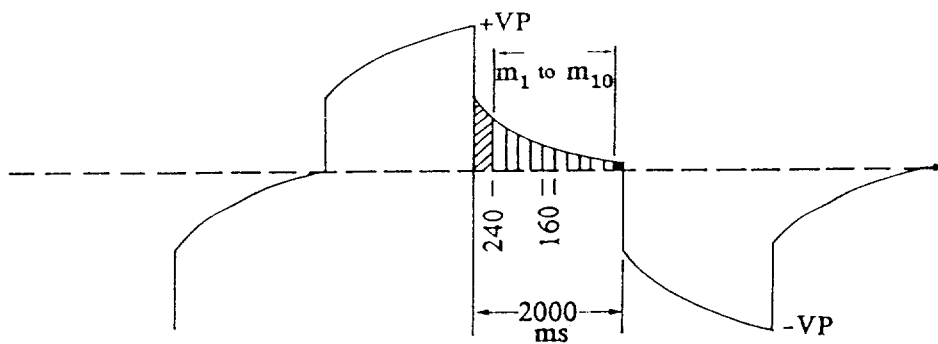


Figure 7 : The signal integration windows at  $P_1-P_2$

### 3.3.4 IP Survey Parameters Calculation

Apparent resistivity was determined using the following equations :

Dipole-dipole:

$$\rho = \pi \cdot \frac{V_p}{I} \cdot n(n+1) \cdot (n+2) \cdot a \quad (\text{in } \Omega \cdot \text{feet})$$

Pole-dipole:

$$\rho = 2\pi \cdot \frac{V_p}{I} \cdot n(n+1) \cdot a \quad (\text{in } \Omega \cdot \text{feet})$$

Where  $a$  = dipole length (100 feet)  
 $n$  = dipole separation factor  
 $V_p$  = primary voltage (mV)  
 $I$  = injected current (mA)

Chargeability  $M$  is the average of the 10 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 12 data point triangle.

### 3.3.5 Quality Control

Initially, the present IP survey was to be performed with the dipole-dipole array ( $a = 100$  feet,  $n = 1$  to 6). However, only 4,2 kilometres of dipole-dipole were performed. After this line coverage, we have decided to change the array for pole-dipole ( $a = 100$  feet,  $n = 1$  to 6). Due to the presence of wide areas of thick sandy overburden (Munro Esker). The contact resistance measured at the electrodes with dipole-dipole were very high, in the order of 10 to 30 k $\Omega$  m, which resulted in very low transmitted current, and consequently in very low signal measured at the potential dipoles (weak signal/noise ratio). During a field overview of the property by our IP crew, it was observed that these conditions of sandy overburden were present on the major part of the survey grid. In order to prevent unreliable readings, we have repeated the lines performed with the dipole-dipole array and resumed the survey with

pole-dipole. The better signal to noise ratio of the pole-dipole array can be explained by the presence of one current electrode  $C_2$  (figure 5, page 10) with a very long spacing ( $\geq 10 a$ ).

- The apparent resistivity error is essentially from the analog current  $I$  readout and nominal spacing  $a$  between the electrodes, which is approximately 5% in all.
- Final chargeability measurements ( $M_1$  to  $M_{10}$ ) represent the average of 8 to 12 measuring cycles. However the difference between the 10 normalized windows is the best indicator of the quality and the purity of a chargeability reading. Hence, if parasitic signals 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.

## 4. INTERPRETATION

### 4.1 HLEM SURVEY

#### 4.1.1 Data Presentation

The HLEM survey was mainly performed using a 500 feet cable. The results are presented in the form of profile maps of in-phase and quadrature readings for all three measured frequencies (444, 1777 and 3555 Hz). A detailed list of all output maps appears at the beginning of this report.

#### 4.1.2 Analysis of survey results

A general examination of the HLEM results on all three measured frequencies suggests a relatively thick overburden. The identification of the poorly conductive sources, usually revealed by high frequencies, is hazardous in this case due to the presence of a significant overburden layer over this area.

The integration of the HLEM survey revealed the presence of only one conductive axis, (HLEM-1). This conductor was rated good and was transposed onto the geophysical interpretation map (96-N068-7.0). With the determination of the physical parameters of this conductor we could assume :

Depth : approximately 200 feet  
 Conductance : good (approximately 7 mhos)  
 Dip : sub-vertical  
 Width : from 50 to 100 feet

Also established and summarized in Table 2.

**Table 2 : Detailed description of the HLEM conductors identified on the Munro Prospect**

Anomaly	Location		Major features of the HLEM conductors			
	Line	Station	Depth (feet)	Conductance (mhos)	Dip (°)	Width (feet)
HLEM-01*	L4+50E	18+00N	220	5,2	sub-vertical	-
	L6+00E	18+50N	185	6,4	sub-vertical	100
	L7+50E	18+50N	190	3,2	sub-vertical	50
	L9+00E	19+25N	-	-	-	100
	L10+50E	19+50N	-	-	-	100
	L12+00E	19+50N	-	-	-	-
	L15+00E	19+75N	-	-	-	50
	L18+00E	20+25N	-	-	-	50

\* Good conductor coincident with an IP anomaly (IP-03)

## 4.2 IP SURVEY

### 4.2.1 Data Presentation

The pole-dipole array results are presented in the form of interpreted pseudosections of the apparent resistivity, apparent chargeability and metal factor at a scale of 1 : 2400. The results are also presented in the form of contour maps at a scale of 1 : 3600, using the Fraser filter values of resistivity and chargeability (96-N068-4.2 and 96-N068-4.3). The anomalous axes were transposed onto the geophysical interpretation map (96-N068-7.0). One color copy of the Fraser filter values (resistivity and chargeability) contour maps are presented separately (96-N068-4.2c and 96-N068-4.3c). Finally, one set of color stacked pseudosections of the apparent resistivity and the apparent chargeability are also submitted separately.

The dipole-dipole array pseudosections of the apparent resistivity and the apparent chargeability are also presented in the appendices, but without interpretation.

#### 4.2.2 Analysis of Survey Results

As mentioned in section 3.3.4, the dipole-dipole array was performed over Munro Prospect over only 4 lines. Due to the thickness (up to 150-200 feet) of the sandy overburden observed in this area (Munro Esker), we have decided to switch for the pole-dipole array. A general overlook at the pseudosections of pole-dipole array confirms the important thickness of overburden (strong resistivity values at the first three separations). The present IP survey (pole-dipole array) made it possible to highlight a total of 9 IP anomalies, which were regularly labelled from IP-1 to IP-9 and reported on the interpretation map (96-N068-7.0).

An overlook of the contour maps of apparent resistivity and chargeability reveals the presence, over the north area of the survey, of a moderately polarizable and locally weakly conductive axis (IP-01). This anomaly is oriented NW-SE and intercepted all the survey lines representing probably a weakly mineralized geological contact. Also, just north of the resistive axis IP-04, there is a strong polarizable axis (IP-03), locally conductive. The resistive axis and the IP anomaly are both close and parallel to the Centre Hill Fault and oriented NW-SE. The IP-03 anomaly is at least 3,300 feet long (opened on both sides) and has a width ranging from 50 to 500 feet. The conductor HLEM-01 coincides with the central part of this anomaly and part of the chargeability response likely comes from the serpentinite unit intercepted in D.D.H. MSL-94-01. Further south, the three polarizable axes IP-05, IP-06, and IP-07 made one area weakly polarizable (rock unit ?).

The determination of the physical characteristics of the induced polarization anomalies was established and summarized in Table 3, next page.

The geological information was taken from the following reports *The Munro Prospect, October 31st, 1991, Trinity Exploration* and *Drill Hole Record MSL-94-01*.



**Table 3 : Physical characteristics of the induced polarization anomalies of the Munro Prospect**

Anomaly	Location		Contrast of		Relation with a HLEM conductor	Remarks and recommendations	Priority	
	Line	Station	Chargeability	Resistivity				
IP-01	L9+00W	23+00N	+ +	+		-	Moderate IP response associated with a slight decrease (locally) of the apparent resistivity. Important strike extension and open on both sides. Best response on resistivity-chargeability is identified between lines L9+00E to L18+00E. May represent a geological contact weakly mineralized. Additional IP coverage recommended westward (direction of the Potter Mine) for a better comprehension of this anomaly. A first priority DDH target can already be recommended on L15+00E (Table 5) .	1
	L6+00W	22+50N	+ +	+		-		
	L3+00W	23+00N	+ +	+		-		
	L0+00E	23+00N	+ +			-		
	L1+50E	23+50N	+ +	-		-		
	L3+00E	24+00N	+ +			-		
	L4+50E	25+00N	+			-		
	L6+00E	25+00N	+			-		
	L7+50E	24+00N	+ +			-		
	L9+00E	24+50N	+ +	-		-		
	L10+50E	24+00N	+ +	-		-		
	L12+00E	23+50N	+ +	-		-		
	L15+00E	23+50N	+ +	-		-		
	L18+00E	24+00N	+ +	-		-		
L21+00E	25+00N	+		-				
L24+00E	25+00N	+	-	-				

Anomaly	Location		Contrast of		Relation with a HLEM conductor	Remarks and recommendations	Priority
	Line	Station	Chargeability	Resistivity			
IP-02	L24+00E	30+00N	+	-		<ul style="list-style-type: none"> <li>- Weak IP signature associated with a decrease of the apparent resistivity.</li> <li>- Opened eastward.</li> <li>- Additional IP coverage recommended eastward.</li> </ul>	3
IP-03	L9+00W L6+00W L3+00W L0+00E L1+50E L3+00E L4+50E L6+00E L7+50E L9+00E L10+50E L12+00E L15+00E L18+00E L21+00E L24+00E	16+50N 16+50N 16+50N 17+00N 18+50N 19+00N 19+50N 20+00N 19+00N 19+50N 19+50N 19+00N 19+50N 20+00N 21+00N 22+50N	++ ++ +++ +++ ++++ ++++ ++++ ++++ +++ +++ +++ +++ ++ ++ ++	- ++ - - - - - - - - - - - - -	Good association with the only HLEM conductor, from L4+50E to L18+00E .	<ul style="list-style-type: none"> <li>- Very well defined IP signature associated with a significant decrease (locally) of the apparent resistivity - open on both sides.</li> <li>- The anomalous source is thin eastward and becoming wider (up to 500 feet) westward. Already drilled at L6+00E, st. 20+00N (sulphides and gold traces).</li> <li>- Part of the chargeability response probably comes from the serpentinite unit (intercepted in D.D.H.).</li> <li>- Additional IP coverage recommended for a better comprehension of this anomaly.</li> <li>- A first priority DDH target can already be recommended at L12+00E (Table 5).</li> </ul>	1

Anomaly	Location		Contrast of		Relation with a HLEM conductor	Remarks and recommendations	Priority
	Line	Station	Chargeability	Resistivity			
IP-04	L3+00W	13+00N		+ +		<ul style="list-style-type: none"> <li>- Strong resistive axis, opened on both sides.</li> <li>- Follows the south side of IP-03 anomaly .</li> <li>- May represent a resistive dyke oriented NW-SE.</li> <li>- The widening of the resistive axis at L0+00E may represent a resistive dyke oriented NE-SW.</li> </ul>	4
	L0+00E	20+00N		+ +			
	L1+50E	14+00N		+			
	L3+00E	15+50N		+ +			
	L4+50E	16+00N		+ +			
	L6+00E	16+50N		+			
	L7+50E	16+00N		+ +			
	L9+00E	16+00N		+			
	L10+50E	16+00N		+			
	L12+00E	16+00N		+			
	L15+00E	17+00N		+			
	L18+00E	18+00N		+			
	L21+00E	18+50N		+			
	L24+00E	18+00N		+ +			
IP-05	L1+50E	7+00N	+			<ul style="list-style-type: none"> <li>- Weakly to moderate IP signature without any apparent resistivity feature.</li> <li>- Oriented E-W.</li> <li>- Combined with anomalies IP-06 and IP-07, may represent a polarizable unit.</li> <li>- Interest to be confirmed by other geoscientific works.</li> </ul>	3
	L3+00E	8+00N	+				
	L4+50E	8+00N	+				
	L6+00E	9+00N	+				
	L7+50E	9+00N	+				
	L9+00E	9+50N	+				
	L10+50E	10+00N	+				
	L12+00E	11+00N	+				
L15+00E	11+50N	+					

Anomaly	Location		Contrast of		Relation with a HLEM conductor	Remarks and recommendations	Priority
	Line	Station	Chargeability	Resistivity			
IP-06	L6+00E	6+00N	+ +			- Same description as IP anomaly IP-05.	3
	L7+50E	6+00N	+				
	L9+00E	6+50N	+ +				
	L10+50E	7+00N	+ +				
	L12+00E	8+00N	+ +				
	L15+00E	8+50N	+ +				
	L18+00E	10+00N	+ +				
	L21+00E	12+00N	+				
L24+00E	12+00N	+					
IP-07	L18+00E	8+00N	+			- Same description as IP anomaly IP-05.	3
	L21+00E	9+00N	+ +	-			
	L24+00E	9+00N	+ +				
IP-08	L9+00W	5+00S	+			- Weak IP anomaly oriented NW-SE . - No association with apparent resistivity feature. - Weak strike extension.	4
	L6+00W	4+00S	+ +				
	L3+00W	3+00S	+				
	L0+00E	3+50S	?				
IP-09	L9+00W	9+50S	+ +			- Same description as IP anomaly IP-08.	4
	L6+00W	9+50S	+ +				
	L3+00W	11+00S	+				

## 5. CONCLUSION AND RECOMMENDATIONS

The present IP and HLEM surveys particularly highlight an important anomalous area located in the central part of the survey grid. The combined IP and HLEM response (IP-03/HLEM-01) near the Centre Hill Fault is very attractive area for the mining exploration (the Centre Hill Fault crosses by the Potter Mine). However, part of the chargeability response might be explained by the serpentinite unit intercepted in D.D.H. MSL-94-01. The northernmost polarizable axis (IP-01) is also interesting, representing probably a geological contact, locally moderately mineralized. Finally, performing a complementary IP coverage toward the west in the direction of the Potter Mine could also be interesting. As a first priority, the completion of a D.D.H and as a second priority, an extension of the IP coverage are recommended on both targets (Table 4).

**Table 4 : Recommended work to be completed on the Munro Prospect**

Anomaly	Target coordinates	Priority
Conductor HLEM-01 and associated IP anomaly IP-03	L :12+00E, S : 19+00N, D : - 200 ft	1
	An extension of IP coverage westward	2
IP anomaly IP-01	L :15+00E, S : 23+00N, D : - 200 ft	1
	An extension of IP coverage westward	2
<p>Note: DRILLING TARGET represents the target coordinates and not the collar location.</p> <p>L : Line, S : Station, D : Depth</p>		

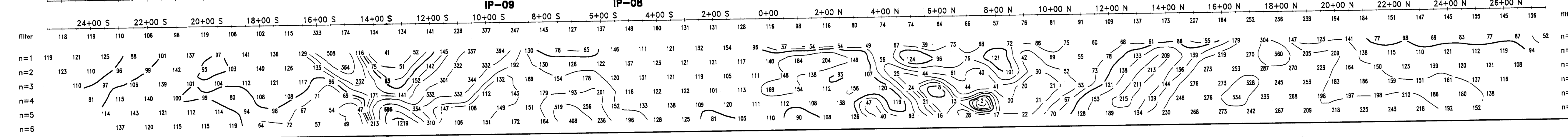
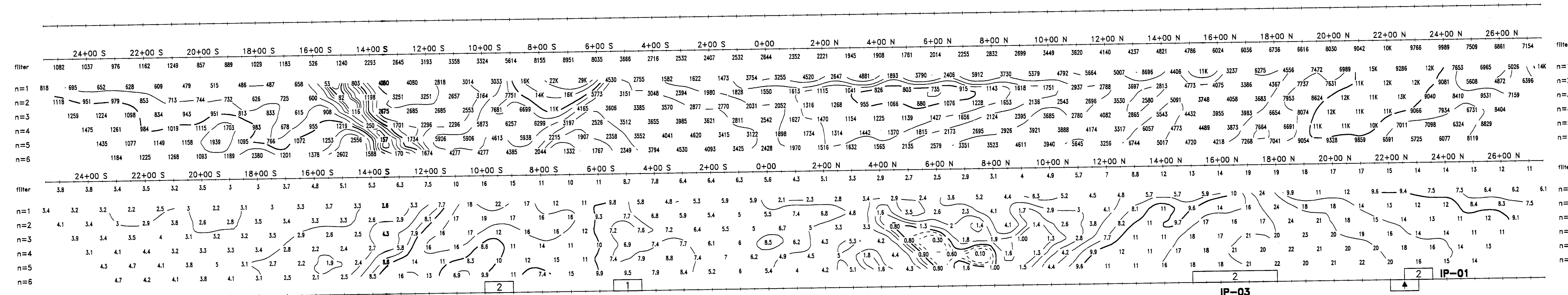
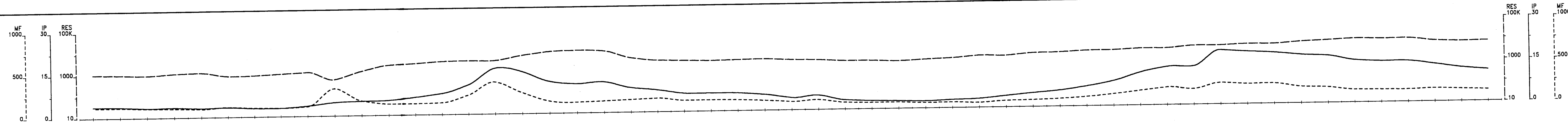
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*Qualification #*

Respectfully submitted,

*Alex Dubois*  
for Martin Dubois  
Geophysicist

## **POLE-DIPOLE ARRAY**



TOPOGRAPHY

RESISTIVITY  
(Ohm \* t)

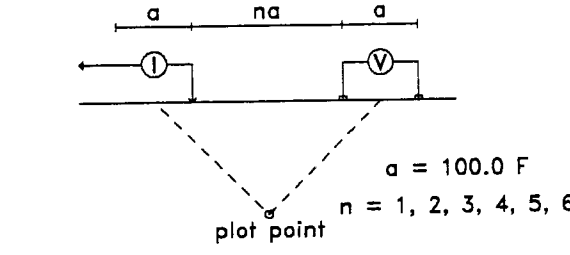
CHARGEABILITY  
(mV/V)

INTERPRETATION

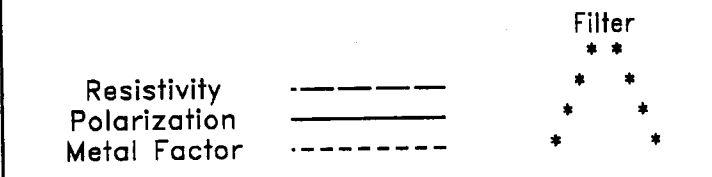
METAL FACTOR

Line 9+00 W

Pole-Dipole Array



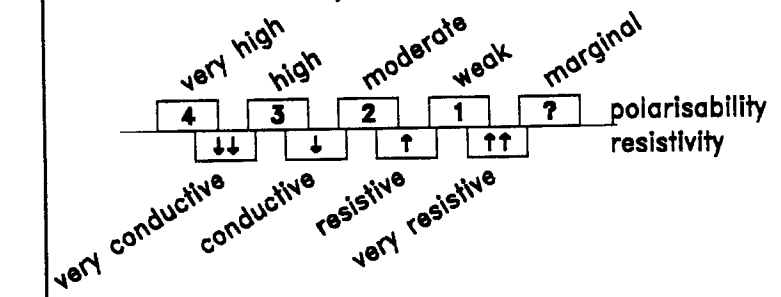
Filtered Profiles



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

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau  
Metal factor definition  $MF = 1000 * Ma / (Ra) - 0.5$

Interpretation legend

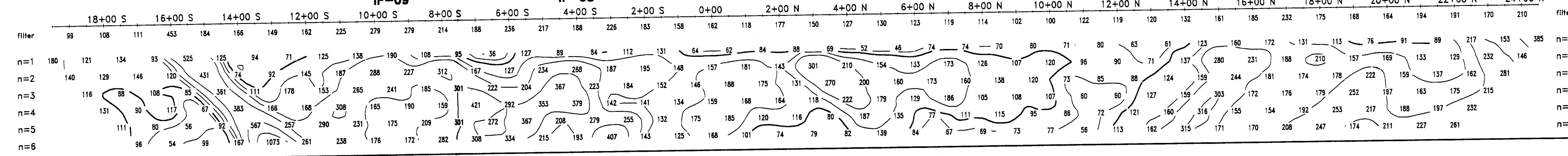
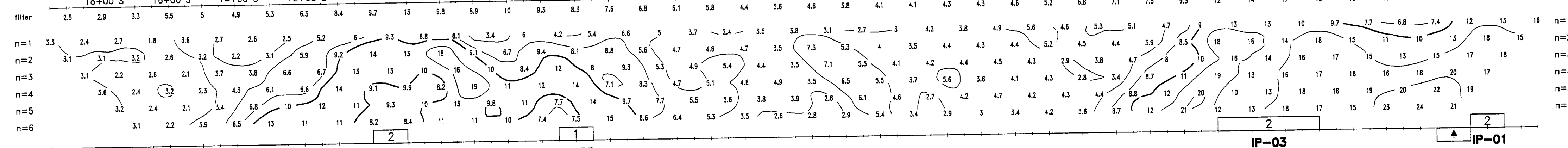
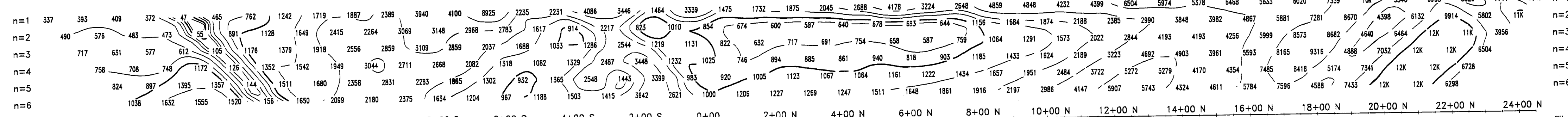
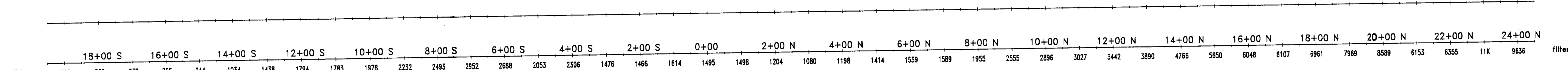
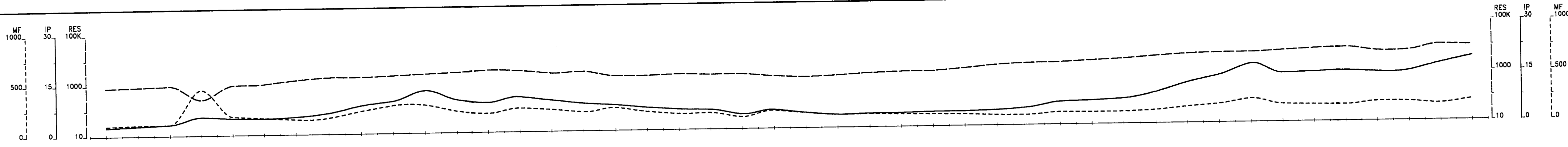


Induced Polarization Survey

TRINITY EXPLORATIONS  
Munro Prospect  
Munro Township, Ontario

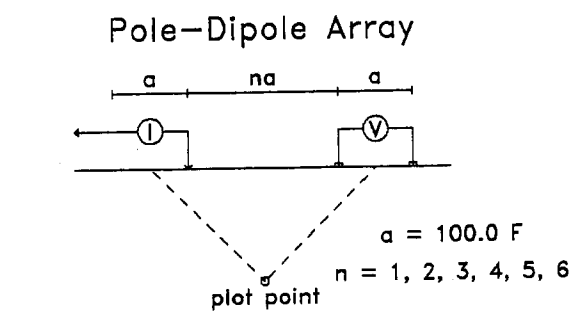
Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.

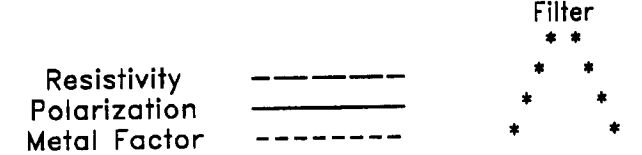


Geosoft Software for the Earth Sciences

### Line 6+00 W



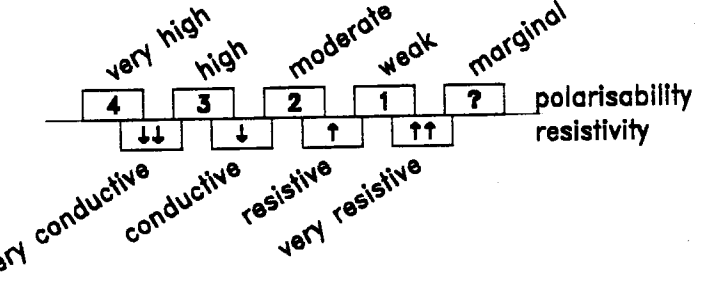
### Filtered Profiles



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

Instrument: PHOENIX IPT1, BRGM IP-6  
 Time cycle: 2 sec.  
 Operator: Luc Bilodeau  
 Metal factor definition  $MF = 1000 * Ma / (Ra) - 0.5$

### Interpretation legend



### TOPOGRAPHY

### RESISTIVITY (Ohm \* t)

### CHARGEABILITY (mV/V)

### INTERPRETATION

### METAL FACTOR

### Induced Polarization Survey

TRINITY EXPLORATIONS  
 Munro Prospect  
 Munro Township, Ontario

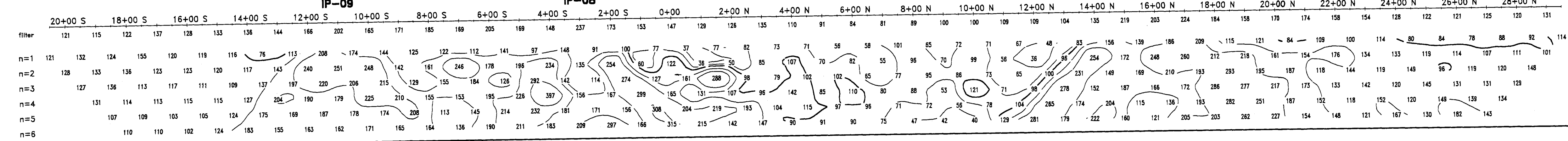
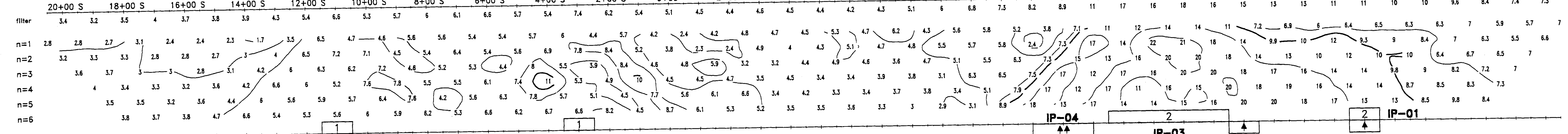
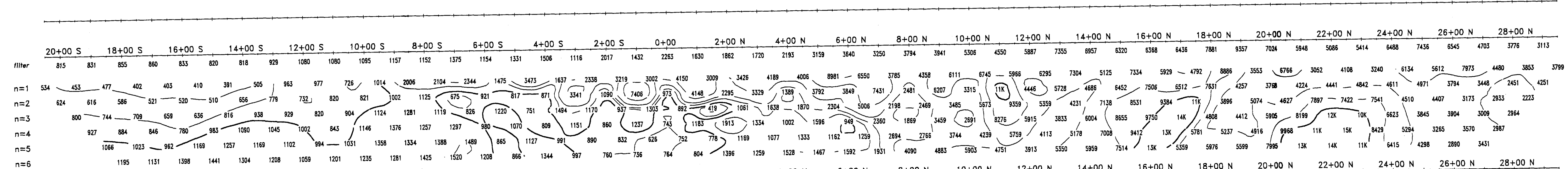
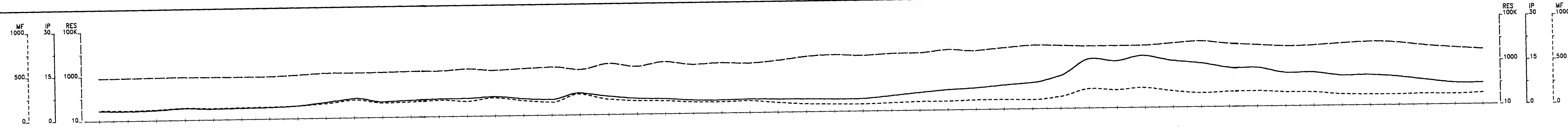
Date: 96/10/29  
 Interpretation by: M. Dubois, geophysicist  
 Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.

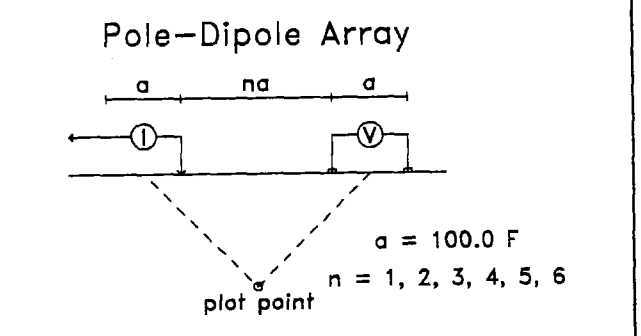


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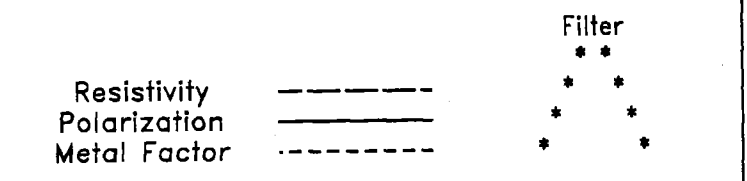




**Line 3+00 W**



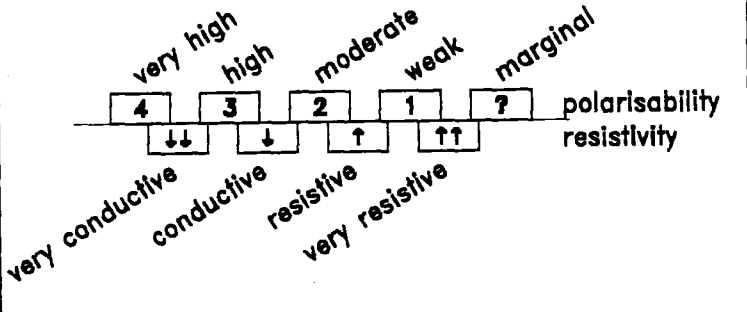
**Filtered Profiles**



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

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau  
Metal factor definition MF=1000\*Ma/(Ra)-0.5

**Interpretation legend**



**TOPOGRAPHY**

**RESISTIVITY**  
(Ohm \* f)

**CHARGEABILITY**  
(mV/V)

**INTERPRETATION**

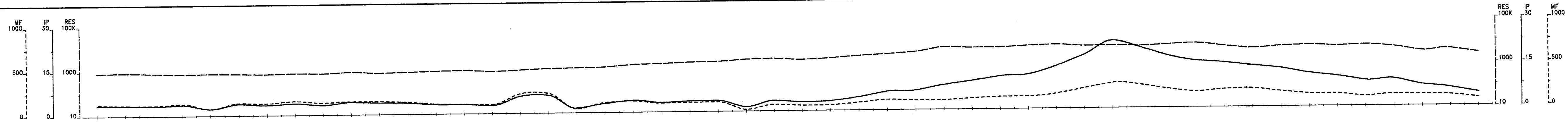
**METAL FACTOR**

**Induced Polarization Survey**

TRINITY EXPLORATIONS  
Munro Prospect  
Munro Township, Ontario

Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.



TOPOGRAPHY

RESISTIVITY  
(Ohm \* f)

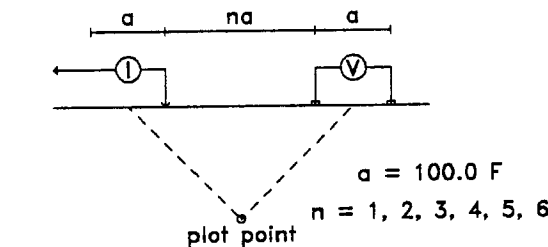
CHARGEABILITY  
(mV/V)

INTERPRETATION

METAL FACTOR

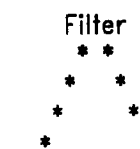
### Line 0

Pole-Dipole Array



Filtered Profiles

Resistivity  
Polarization  
Metal Factor

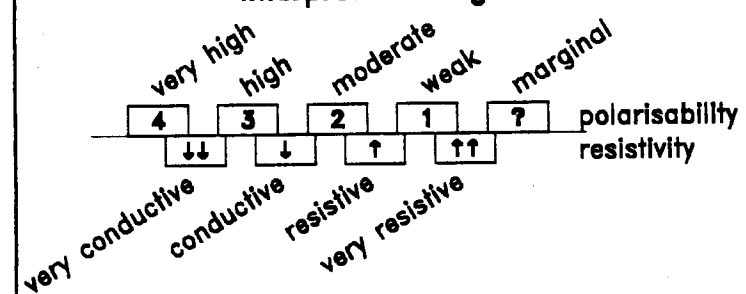


Logarithmic Contours  
1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau

Metal factor definition  $MF = 1000 * Ma / (Ra) - 0.5$

Interpretation legend



INTERPRETATION

METAL FACTOR

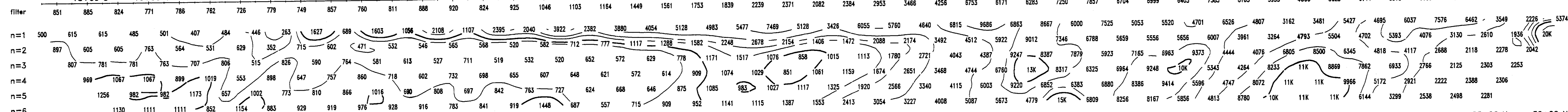
### Induced Polarization Survey

TRINITY EXPLORATIONS  
Munro Prospect  
Munro Township, Ontario  
Date: 96/10/30  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

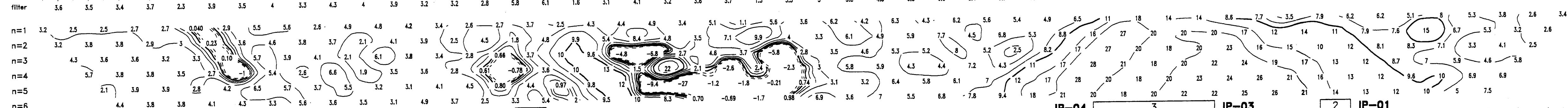
VAL D'OR SAGAX INC.

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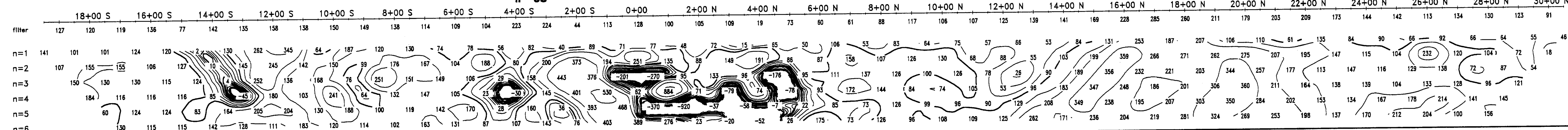
18+00 S 16+00 S 14+00 S 12+00 S 10+00 S 8+00 S 6+00 S 4+00 S 2+00 S 0+00 2+00 N 4+00 N 6+00 N 8+00 N 10+00 N 12+00 N 14+00 N 16+00 N 18+00 N 20+00 N 22+00 N 24+00 N 26+00 N 28+00 N 30+00 N

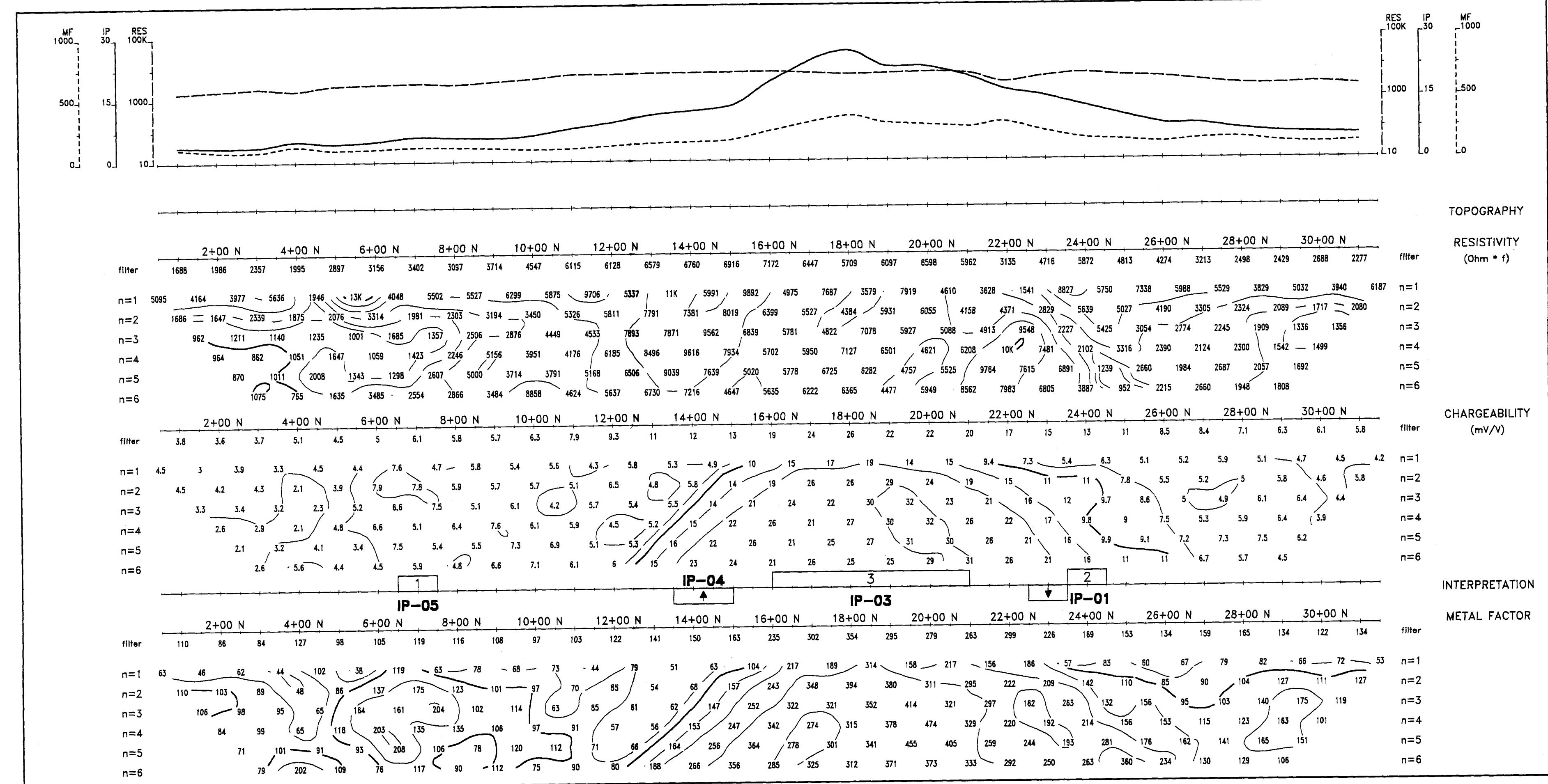


18+00 S 16+00 S 14+00 S 12+00 S 10+00 S 8+00 S 6+00 S 4+00 S 2+00 S 0+00 2+00 N 4+00 N 6+00 N 8+00 N 10+00 N 12+00 N 14+00 N 16+00 N 18+00 N 20+00 N 22+00 N 24+00 N 26+00 N 28+00 N 30+00 N

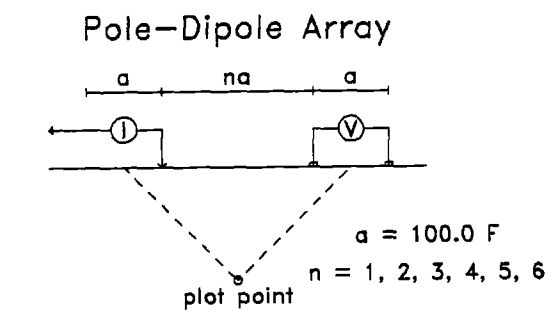


18+00 S 16+00 S 14+00 S 12+00 S 10+00 S 8+00 S 6+00 S 4+00 S 2+00 S 0+00 2+00 N 4+00 N 6+00 N 8+00 N 10+00 N 12+00 N 14+00 N 16+00 N 18+00 N 20+00 N 22+00 N 24+00 N 26+00 N 28+00 N 30+00 N





**Line 1+50 E**



**Filtered Profiles**

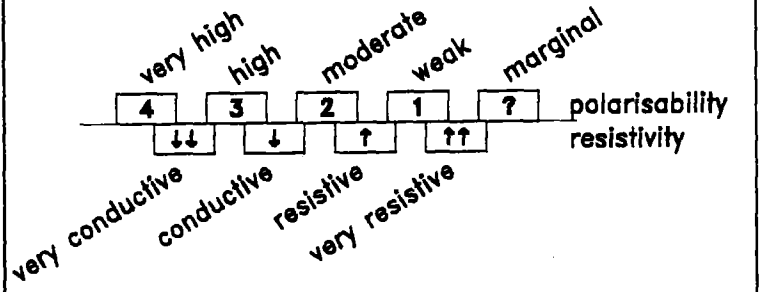


**Logarithmic Contours**  
1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau

Metal factor definition  $MF = 1000 * Ma / (Ra) - 0.5$

**Interpretation legend**

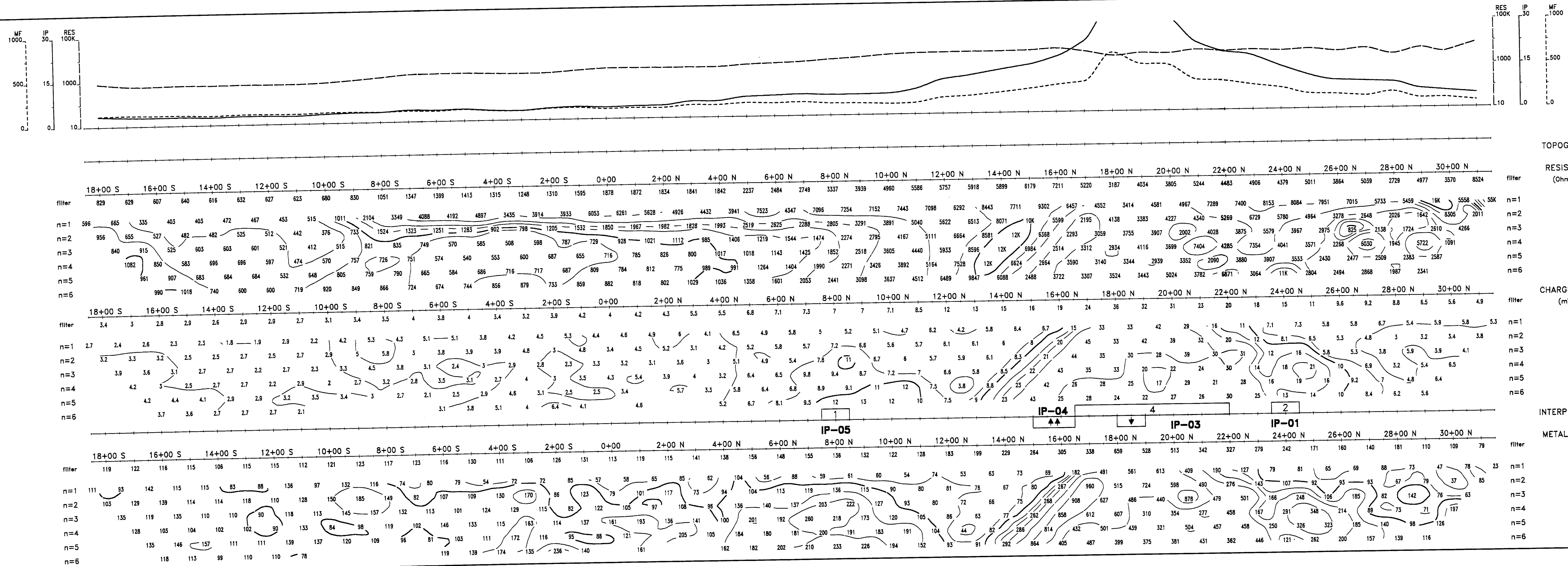


**Induced Polarization Survey**

TRINITY EXPLORATIONS  
Munro Prospect  
Munro Township, Ontario

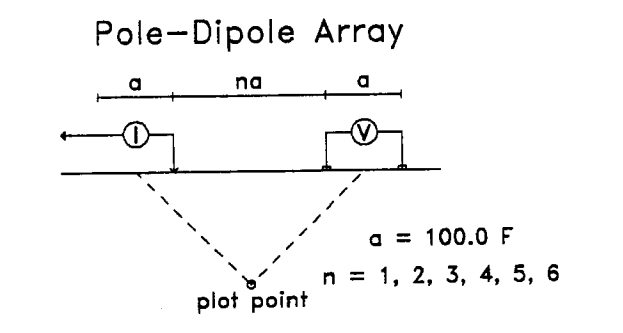
Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

**VAL D'OR SAGAX INC.**

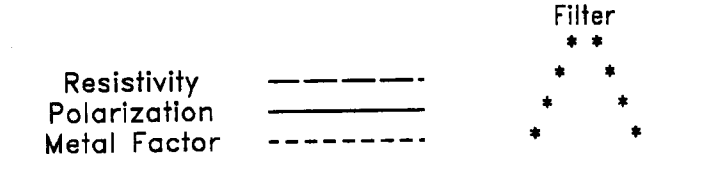


Geosoft Software for the Earth Sciences

### Line 3+00 E



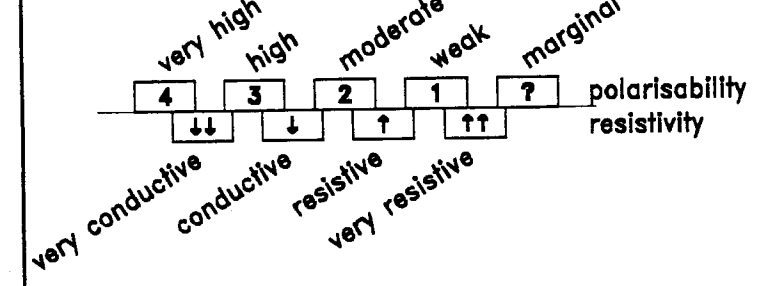
### Filtered Profiles



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

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau  
Metal factor definition  $MF = 1000 * Ma / (Ra) - 0.5$

### Interpretation legend



TOPOGRAPHY

RESISTIVITY (Ohm \* f)

CHARGEABILITY (mV/V)

INTERPRETATION

METAL FACTOR

### Induced Polarization Survey

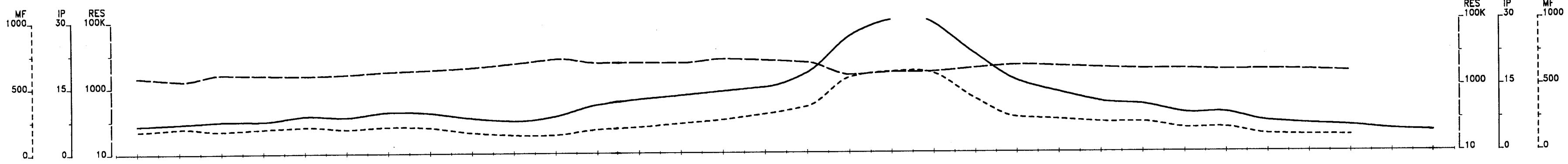
TRINITY EXPLORATIONS  
Munro Prospect  
Munro Township, Ontario

Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

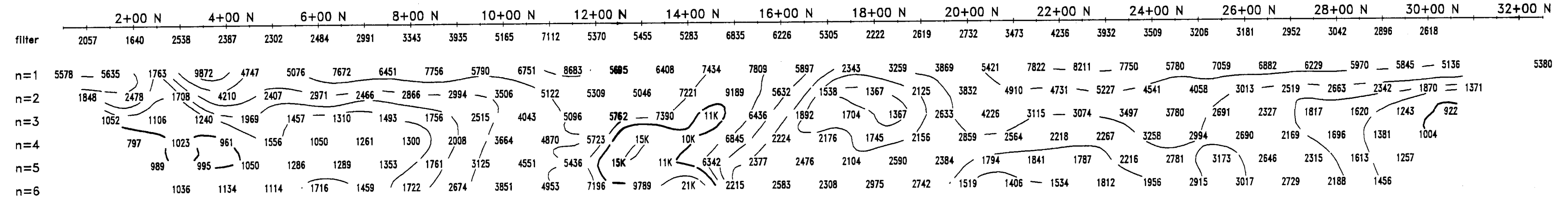
VAL D'OR SAGAX INC.



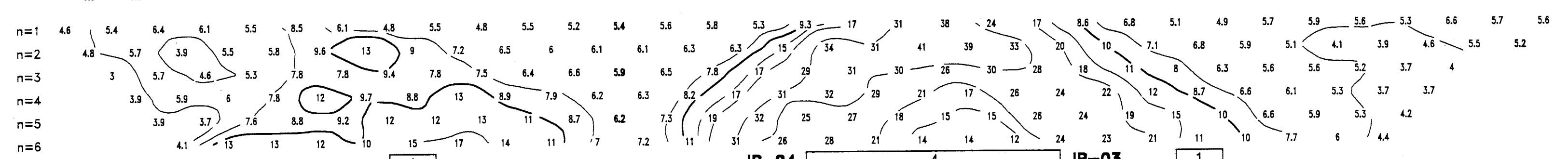
96-N068



2+00 N 4+00 N 6+00 N 8+00 N 10+00 N 12+00 N 14+00 N 16+00 N 18+00 N 20+00 N 22+00 N 24+00 N 26+00 N 28+00 N 30+00 N 32+00 N

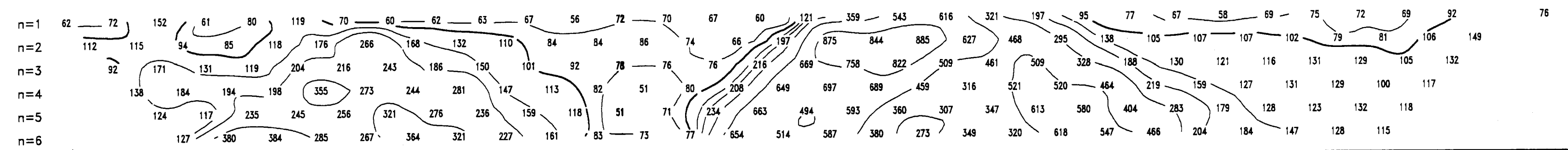


filter 6.5 6.9 7.4 7.4 8.6 8.3 9.4 9.2 8 7.4 8.4 11 12 13 14 15 18 26 30 29 22 16 14 11 11 8.8 8.8 6.9 6.2 5.8 5 4.6 filter



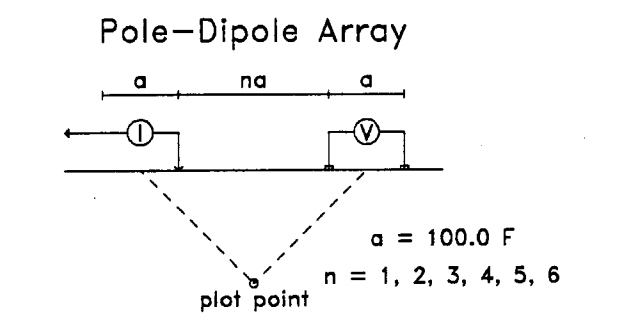
IP-04 4 IP-03 1 IP-05 IP-01

filter 172 193 175 189 203 185 202 195 156 138 139 179 196 223 250 292 349 566 609 595 401 262 246 225 224 179 181 130 123 121 filter

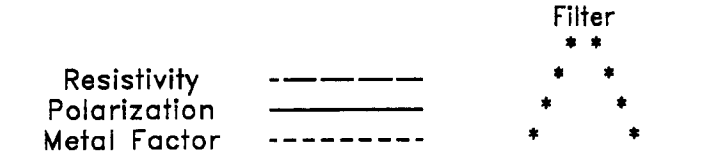


Geosoft Software for the Earth Sciences

Line 4+50 E



Filtered Profiles

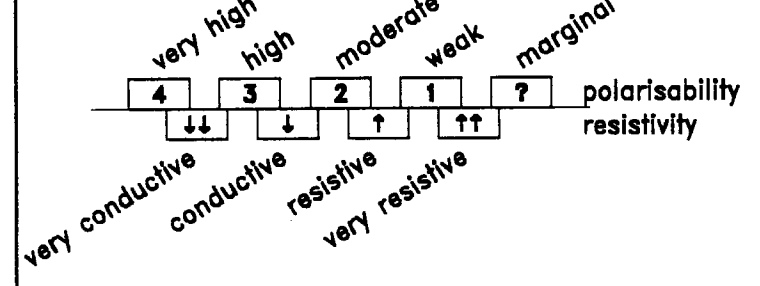


Logarithmic Contours  
1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau

Metal factor definition MF=1000\*Ma/(Ra)-0.5

Interpretation legend



TOPOGRAPHY

RESISTIVITY  
(Ohm \* f)

CHARGEABILITY  
(mV/V)

INTERPRETATION

METAL FACTOR

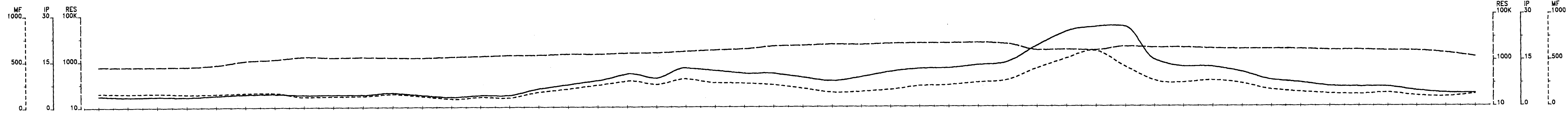
Induced Polarization Survey

TRINITY EXPLORATIONS  
Munro Prospect  
Munro Township, Ontario

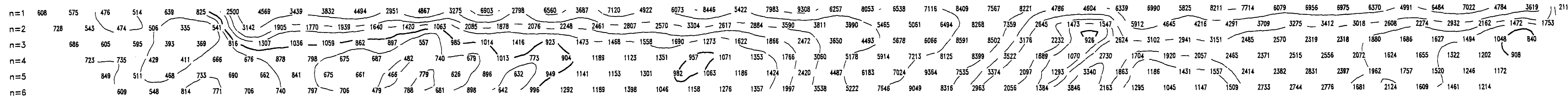
Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.

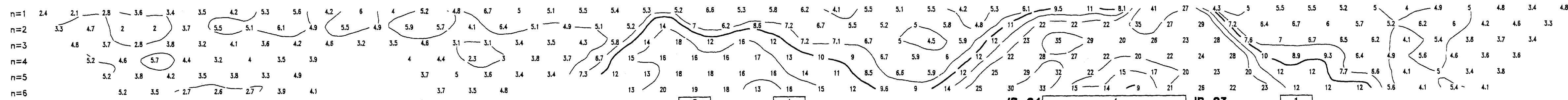




14+00 S 12+00 S 10+00 S 8+00 S 6+00 S 4+00 S 2+00 S 0+00 2+00 N 4+00 N 6+00 N 8+00 N 10+00 N 12+00 N 14+00 N 16+00 N 18+00 N 20+00 N 22+00 N 24+00 N 26+00 N 28+00 N 30+00 N 32+00 N

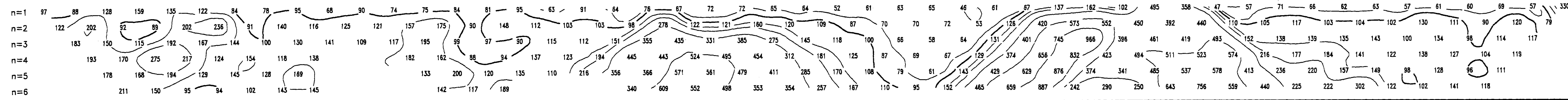


14+00 S 12+00 S 10+00 S 8+00 S 6+00 S 4+00 S 2+00 S 0+00 2+00 N 4+00 N 6+00 N 8+00 N 10+00 N 12+00 N 14+00 N 16+00 N 18+00 N 20+00 N 22+00 N 24+00 N 26+00 N 28+00 N 30+00 N 32+00 N



IP-06 IP-05 IP-04 IP-03 IP-01

14+00 S 12+00 S 10+00 S 8+00 S 6+00 S 4+00 S 2+00 S 0+00 2+00 N 4+00 N 6+00 N 8+00 N 10+00 N 12+00 N 14+00 N 16+00 N 18+00 N 20+00 N 22+00 N 24+00 N 26+00 N 28+00 N 30+00 N 32+00 N



TOPOGRAPHY

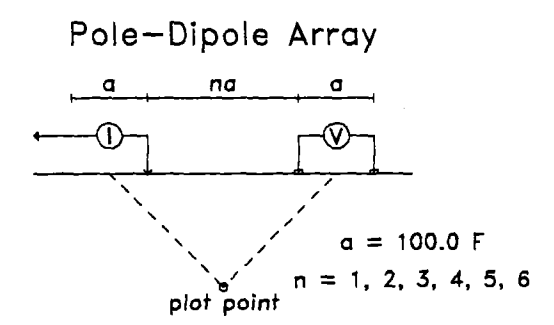
RESISTIVITY (Ohm \* f)

CHARGEABILITY (mV/V)

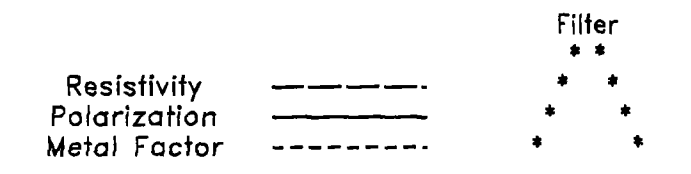
INTERPRETATION

METAL FACTOR

Line 6+00 E



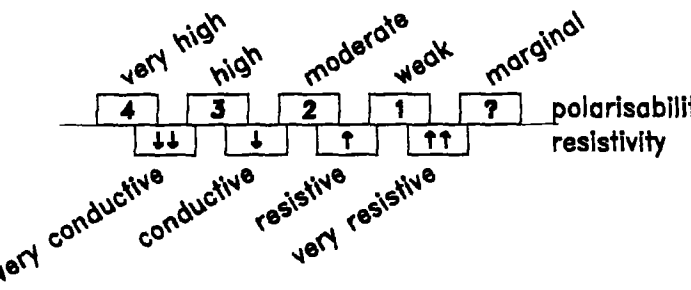
Filtered Profiles



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

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau  
Metal factor definition MF=1000\*Ma/(Ra)-0.5

Interpretation legend



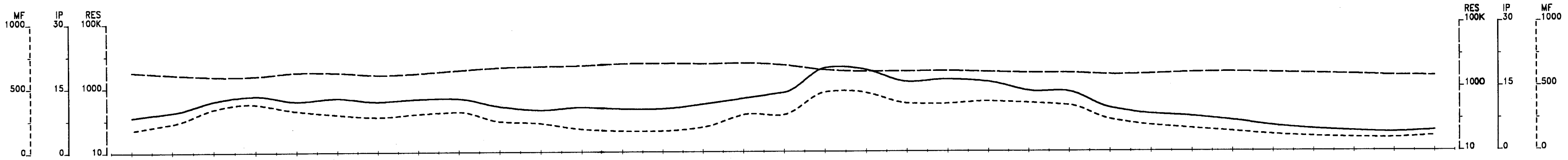
INTERPRETATION

Induced Polarization Survey

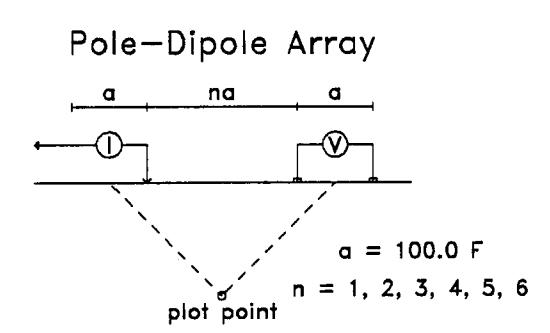
TRINITY EXPLORATIONS  
Munro Prospect  
Munro Township, Ontario

Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.



### Line 7+50 E



#### Filtered Profiles

Resistivity   
 Polarization   
 Metal Factor

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

Instrument: PHOENIX IPT1, BRGM IP-6  
 Time cycle: 2 sec.  
 Operator: Luc Bilodeau

Metal factor definition  $MF = 1000 * Ma / (Ra) - 0.5$

filter	2+00 N	4+00 N	6+00 N	8+00 N	10+00 N	12+00 N	14+00 N	16+00 N	18+00 N	20+00 N	22+00 N	24+00 N	26+00 N	28+00 N	30+00 N	32+00 N	filter																		
n=1	4285	4279	5694	6975	5587	6282	4227	6236	5172	6091	4876	6455	6392	8805	7666	8205	5055	7899	7145	9200	6950	8732	5697	8429	5533	4964	6171	7525	6966	6369	6137	5031	5968	5563	n=1
n=2	1947	2377	909	2890	3392	2593	2040	3241	2447	2995	4098	5208	5255	4709	7725	7236	2615	2982	4017	4227	3425	3173	3506	3345	2488	2448	3237	3419	3282	2774	2219	2075	2466	n=2	
n=3	1071	2066	3423	2326	1422	1328	1503	1853	1923	3388	4454	5755	6173	12K	7287	3633	1239	2162	2200	2220	1517	2263	2028	1945	1760	1762	1935	2035	1830	1314	1206	1263	n=3		
n=4	3232	5209	3771	1068	1051	962	1177	1382	2804	4180	6054	7053	8272	7581	3601	2023	1224	1748	1456	1190	1370	1716	1836	1852	1672	1586	1626	1593	1290	1113	1227	n=4			
n=5	5606	3992	1224	1136	906	1211	1033	2712	3634	5839	7500	9693	6894	3621	2149	2190	1149	1324	862	1089	1286	1794	1970	1951	1747	1567	1531	1343	1285	1368	n=5				
n=6	4151	1446	1229	961	1227	926	2133	3198	5134	7005	9930	7441	3271	2168	2303	1972	901	874	946	1120	1322	1899	2124	1976	1773	1655	1375	1382	1633	n=6					

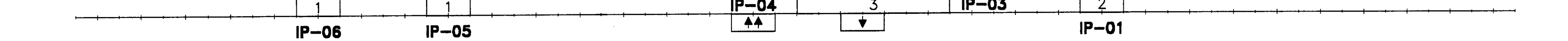
#### TOPOGRAPHY

#### RESISTIVITY (Ohm \* f)

#### CHARGEABILITY (mV/V)

filter	2+00 N	4+00 N	6+00 N	8+00 N	10+00 N	12+00 N	14+00 N	16+00 N	18+00 N	20+00 N	22+00 N	24+00 N	26+00 N	28+00 N	30+00 N	32+00 N	filter																		
n=1	8.3	9.4	12	13	12	13	12	12	11	9.8	10	10	10	11	12	14	19	19	16	17	16	14	14	10	8.7	8.1	7.1	5.9	5.1	4.6	4.3	4.7	n=1		
n=2	4.5	6.2	5.7	4.7	5.4	5.1	5.3	5.8	5.3	3.5	4.6	3.6	6.4	4.7	6	4.8	6.6	5.9	6.9	6.9	7.1	6.3	4	4.6	6.1	5	5.5	5.7	5.9	5	4.7	4.8	5.7	5.3	n=2
n=3	5.4	5.3	4.3	5.2	6.4	9.1	7.3	8.8	7.6	4.8	5.1	5.1	5	6.9	6.7	7.7	12	14	13	12	12	13	11	7.8	5.8	5	5.2	5.7	5.7	4.8	4.6	4.4	5.4	n=3	
n=4	5.5	5.9	4	6.2	8.3	12	23	12	9.1	6.3	6.2	5.5	7.4	6.2	9.2	14	21	16	18	19	14	20	8.4	8.9	7.5	6.2	4.6	3.5	3.8	3.2	4.5	3.4	n=4		
n=5	5.1	4.5	9.5	15	25	26	23	14	14	7.7	7.6	6.8	6.5	9.5	15	24	22	23	37	24	17	22	13	10	9.7	4.5	4.6	5.2	3.8	4.9	3.8	n=5			
n=6	5.1	8.2	13	22	26	22	24	15	9.4	8.4	7.2	7.2	11	18	21	23	27	34	28	20	18	17	14	9.5	3.7	4.6	3.9	5.3	4	n=6					

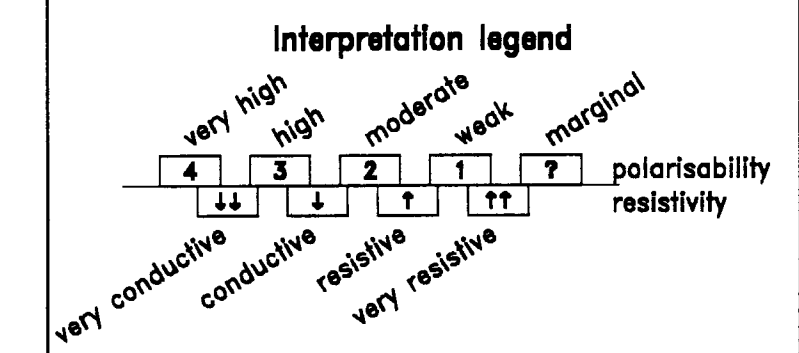
filter	2+00 N	4+00 N	6+00 N	8+00 N	10+00 N	12+00 N	14+00 N	16+00 N	18+00 N	20+00 N	22+00 N	24+00 N	26+00 N	28+00 N	30+00 N	32+00 N	filter																		
n=1	8.3	9.4	12	13	12	13	12	12	11	9.8	10	10	10	11	12	14	19	19	16	17	16	14	14	10	8.7	8.1	7.1	5.9	5.1	4.6	4.3	4.7	n=1		
n=2	4.5	6.2	5.7	4.7	5.4	5.1	5.3	5.8	5.3	3.5	4.6	3.6	6.4	4.7	6	4.8	6.6	5.9	6.9	6.9	7.1	6.3	4	4.6	6.1	5	5.5	5.7	5.9	5	4.7	4.8	5.7	5.3	n=2
n=3	5.4	5.3	4.3	5.2	6.4	9.1	7.3	8.8	7.6	4.8	5.1	5.1	5	6.9	6.7	7.7	12	14	13	12	12	13	11	7.8	5.8	5	5.2	5.7	5.7	4.8	4.6	4.4	5.4	n=3	
n=4	5.5	5.9	4	6.2	8.3	12	23	12	9.1	6.3	6.2	5.5	7.4	6.2	9.2	14	21	16	18	19	14	20	8.4	8.9	7.5	6.2	4.6	3.5	3.8	3.2	4.5	3.4	n=4		
n=5	5.1	4.5	9.5	15	25	26	23	14	14	7.7	7.6	6.8	6.5	9.5	15	24	22	23	37	24	17	22	13	10	9.7	4.5	4.6	5.2	3.8	4.9	3.8	n=5			
n=6	5.1	8.2	13	22	26	22	24	15	9.4	8.4	7.2	7.2	11	18	21	23	27	34	28	20	18	17	14	9.5	3.7	4.6	3.9	5.3	4	n=6					



filter	2+00 N	4+00 N	6+00 N	8+00 N	10+00 N	12+00 N	14+00 N	16+00 N	18+00 N	20+00 N	22+00 N	24+00 N	26+00 N	28+00 N	30+00 N	32+00 N	filter																		
n=1	175	228	340	375	323	293	274	298	313	238	222	177	162	162	191	288	287	461	455	373	370	387	375	356	247	201	175	152	127	112	103	101	116	n=1	
n=2	69	95	76	56	72	64	82	73	74	45	66	45	80	50	69	53	93	66	82	72	85	67	53	50	82	71	70	66	71	63	60	68	74	71	n=2
n=3	122	109	143	95	110	179	162	155	154	88	80	71	69	101	76	91	227	258	211	177	210	227	181	135	116	101	91	97	99	91	98	97	109	n=3	
n=4	168	130	68	129	220	343	593	276	208	108	93	73	94	56	108	236	594	340	388	401	370	410	187	202	179	148	105	78	89	88	130	96	n=4		
n=5	90	62	155	450	777	854	665	369	262	119	98	81	71	109	257	534	626	560	959	699	459	526	296	244	237	113	114	130	106	147	108	n=5			
n=6	68	130	372	656	877	629	744	284	156	110	83	73	130	291	455	457	667	734	1168	833	558	420	390	312	227	93	118	106	148	108	n=6				
n=6	130	536	553	619	574	720	548	288	156	117	91	132	348	530	419	381	830	829	1294	828	674	537	332	209	207	120	132	102	129	n=6					

#### INTERPRETATION

#### METAL FACTOR

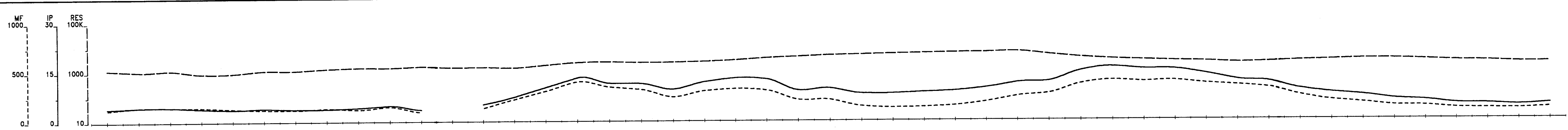


### Induced Polarization Survey

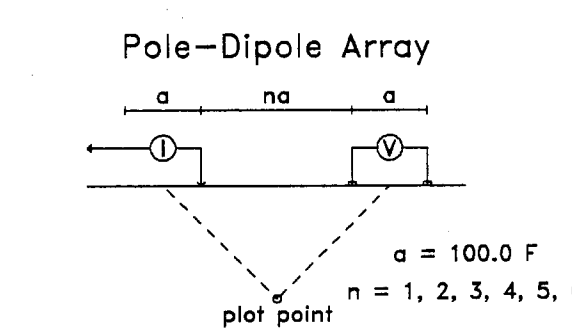
TRINITY EXPLORATIONS  
 Munro Prospect  
 Munro Township, Ontario

Date: 96/10/29  
 Interpretation by: M. Dubois, geophysicist  
 Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.



### Line 9+00 E



### Filtered Profiles

Resistivity  $(\Omega \cdot \text{m})$

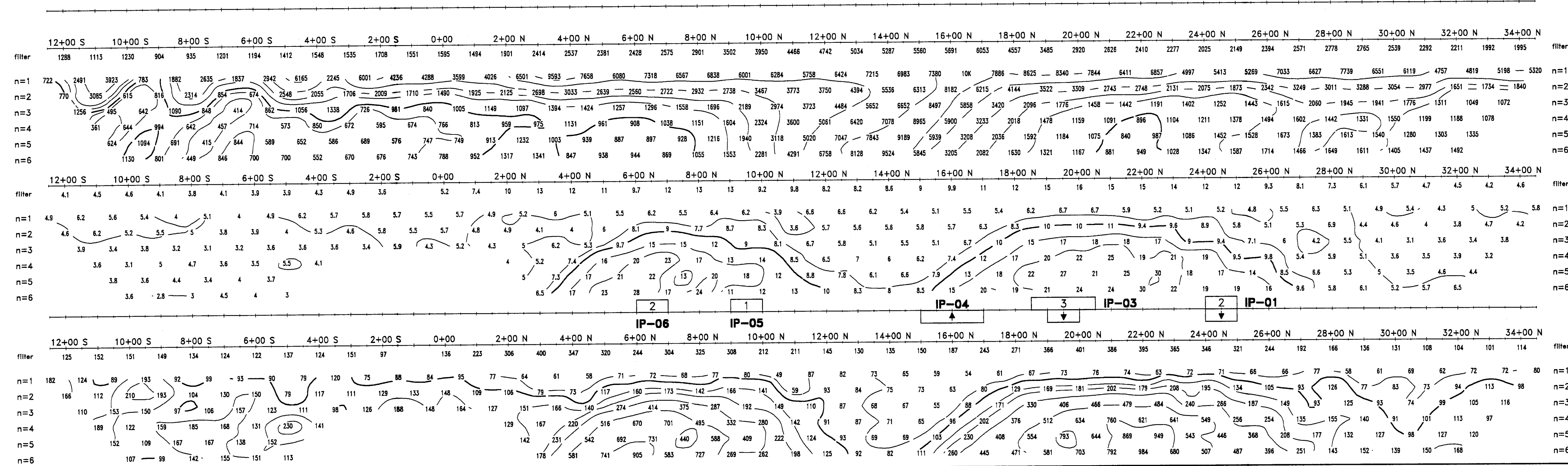
Polarization

Metal Factor

Filter

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

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau  
Metal factor definition  $\text{MF} = 1000 \cdot \text{Ma} / (\text{Ra}) - 0.5$



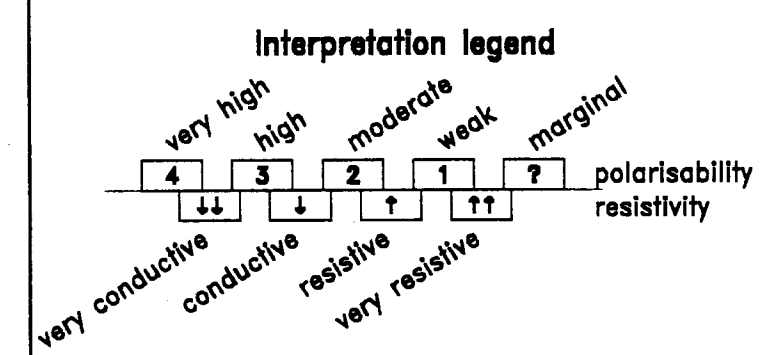
TOPOGRAPHY

RESISTIVITY  $(\Omega \cdot \text{m})$

CHARGEABILITY  $(\text{mV/V})$

INTERPRETATION

METAL FACTOR



**Induced Polarization Survey**

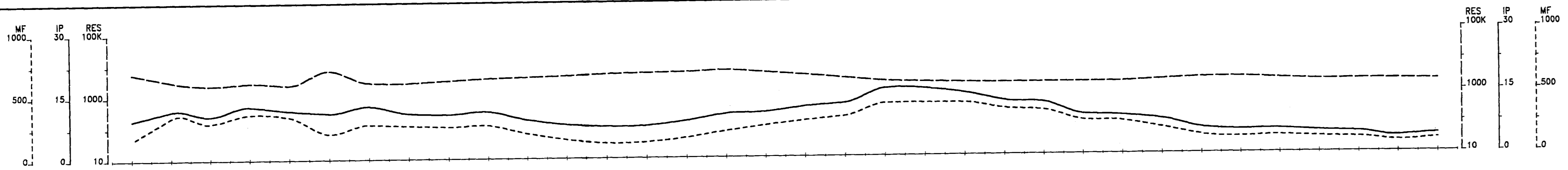
TRINITY EXPLORATIONS

Munro Prospect  
Munro Township, Ontario

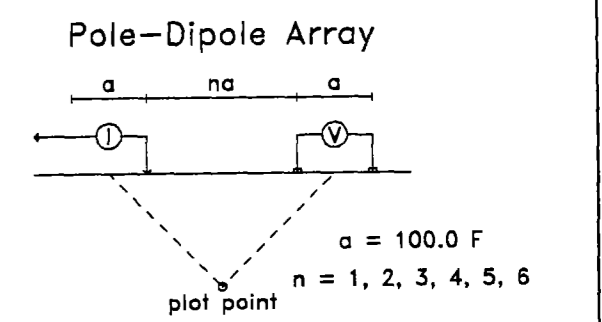
Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

**VAL D'OR SAGAX INC.**

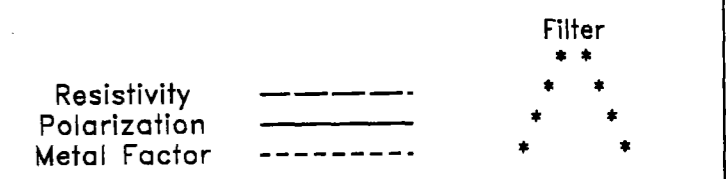




### Line 10+50 E



#### Filtered Profiles

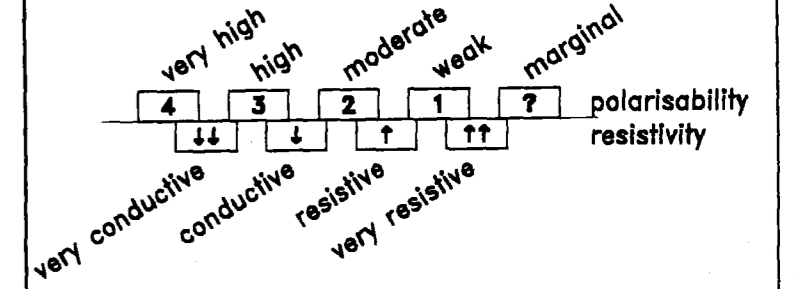


Logarithmic Contours  
1, 1.5, 2, 3, 5, 7.5, 10,...

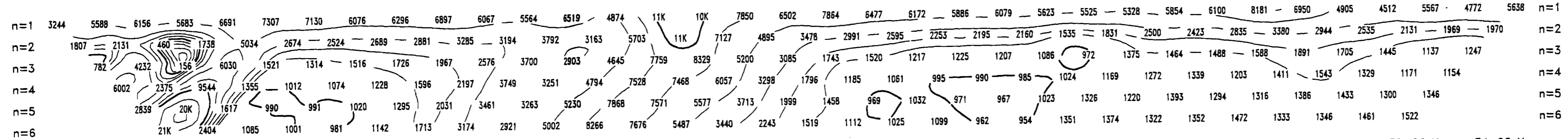
Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau

Metal factor definition  $MF = 1000 \cdot Ma / (Ra) - 0.5$

#### Interpretation legend



filter	5871	3235	2434	2882	2456	7000	2833	2727	3195	3703	3996	4349	4935	5228	5477	6107	5077	4107	3175	2484	2258	2129	2033	2067	2038	2062	2353	2645	2692	2377	2138	2172	2129	2041	filter
--------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	--------

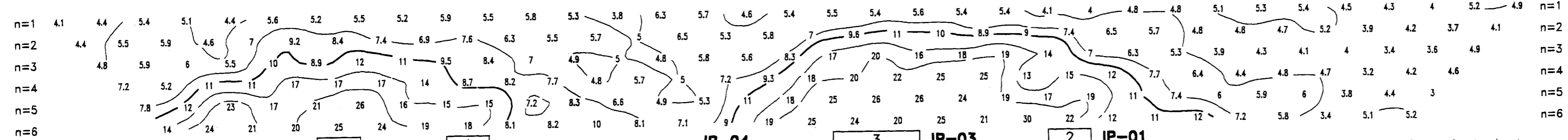


#### TOPOGRAPHY

#### RESISTIVITY (Ohm \* f)

#### CHARGEABILITY (mV/V)

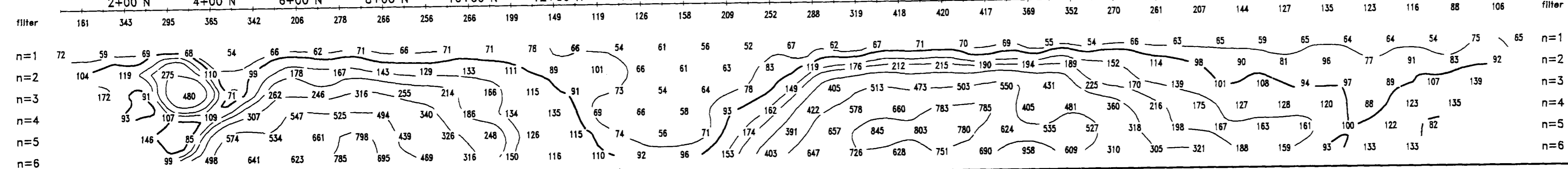
filter	9.5	12	11	13	12	11	13	11	11	9.3	8.1	7.6	7.7	8.9	10	11	12	13	16	16	15	13	12	9.5	9.2	8.3	6.1	5.5	5.6	5.1	4.8	3.8	4.3	filter
--------	-----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	--------



#### INTERPRETATION

#### METAL FACTOR

filter	161	343	295	365	342	206	278	266	256	266	199	149	119	126	158	209	252	288	319	418	420	417	369	352	270	261	207	144	127	135	123	116	88	106	filter
--------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	-----	--------



### Induced Polarization Survey

#### TRINITY EXPLORATIONS

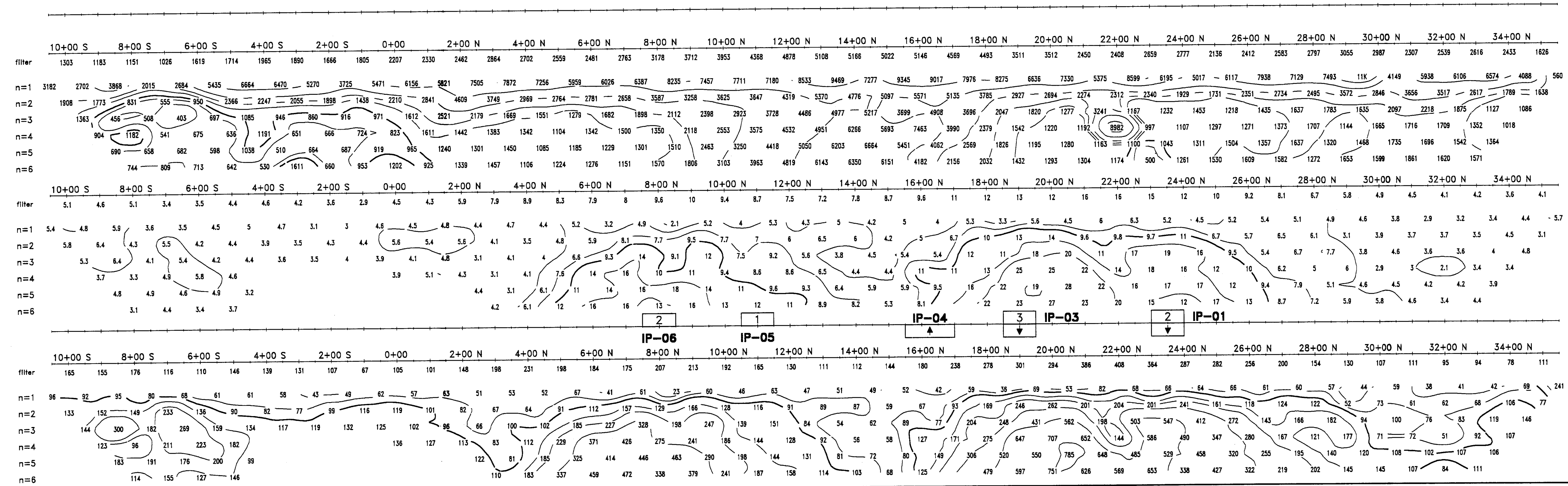
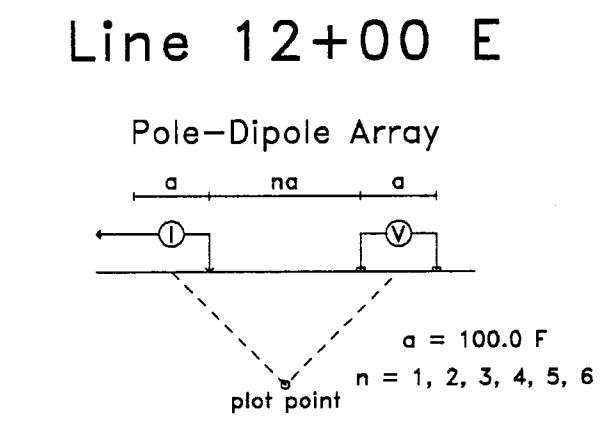
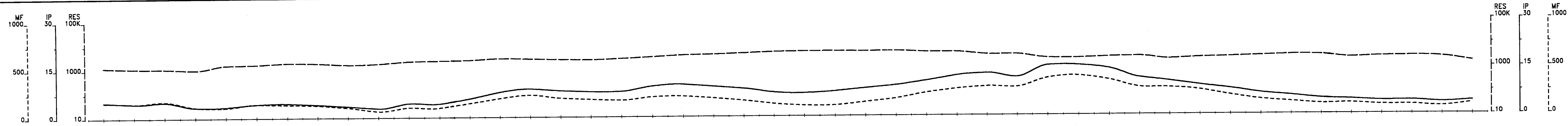
Munro Prospect  
Munro Township, Ontario

Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

### VAL D'OR SAGAX INC.



96-N068



TOPOGRAPHY

RESISTIVITY (Ohm \* f)

CHARGEABILITY (mV/V)

INTERPRETATION

METAL FACTOR

**Filtered Profiles**

Resistivity ————  
 Polarization ————  
 Metal Factor - - - - -

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

Instrument: PHOENIX IPT1, BRGM IP-6  
 Time cycle: 2 sec.  
 Operator: Luc Bilodeau  
 Metal factor definition  $MF = 1000 * Ma / (Ra) - 0.5$

**Interpretation legend**

very high  
 high  
 moderate  
 weak  
 marginal

4 3 2 1 ?  
 ↓ ↓ ↓ ↑ ↑  
 very conductive  
 conductive  
 resistive  
 very resistive

polarisability resistivity

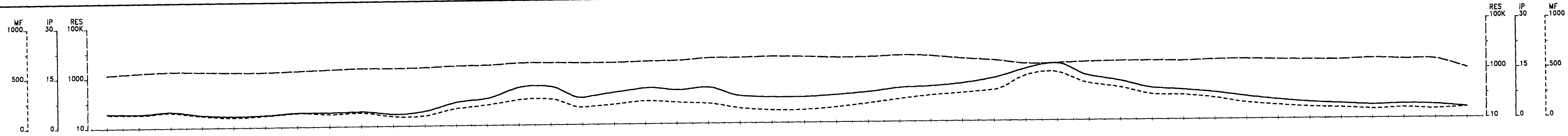
**Induced Polarization Survey**

TRINITY EXPLORATIONS

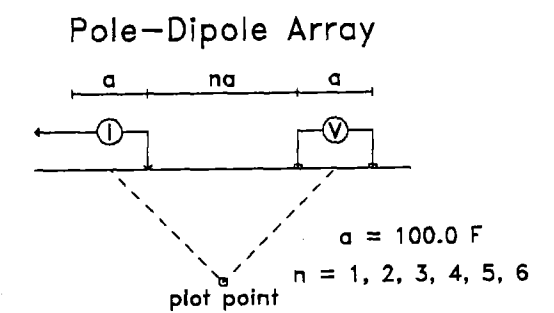
Munro Prospect  
 Munro Township, Ontario

Date: 96/10/29  
 Interpretation by: M. Dubois, geophysicist  
 Scale 1 in. = 200 ft

**VAL D'OR SAGAX INC.**

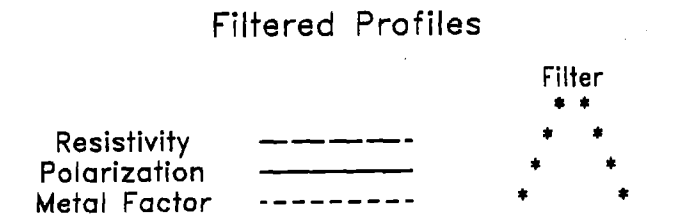


### Line 15+00 E



#### TOPOGRAPHY

RESISTIVITY (Ohm \* f)

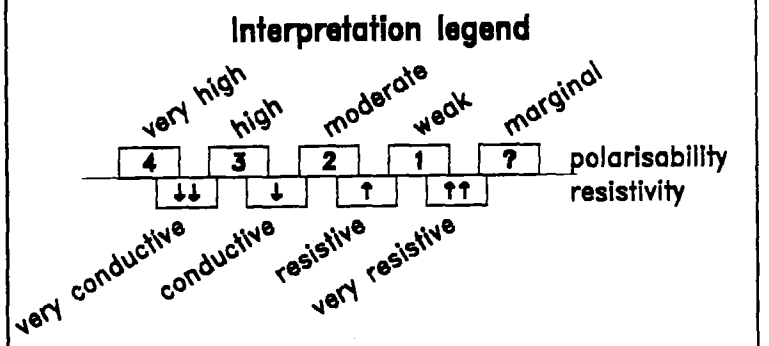


Logarithmic Contours  
1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau  
Metal factor definition MF=1000\*Ma/(Ra)-0.5

#### CHARGEABILITY (mV/V)

n=1  
n=2  
n=3  
n=4  
n=5  
n=6



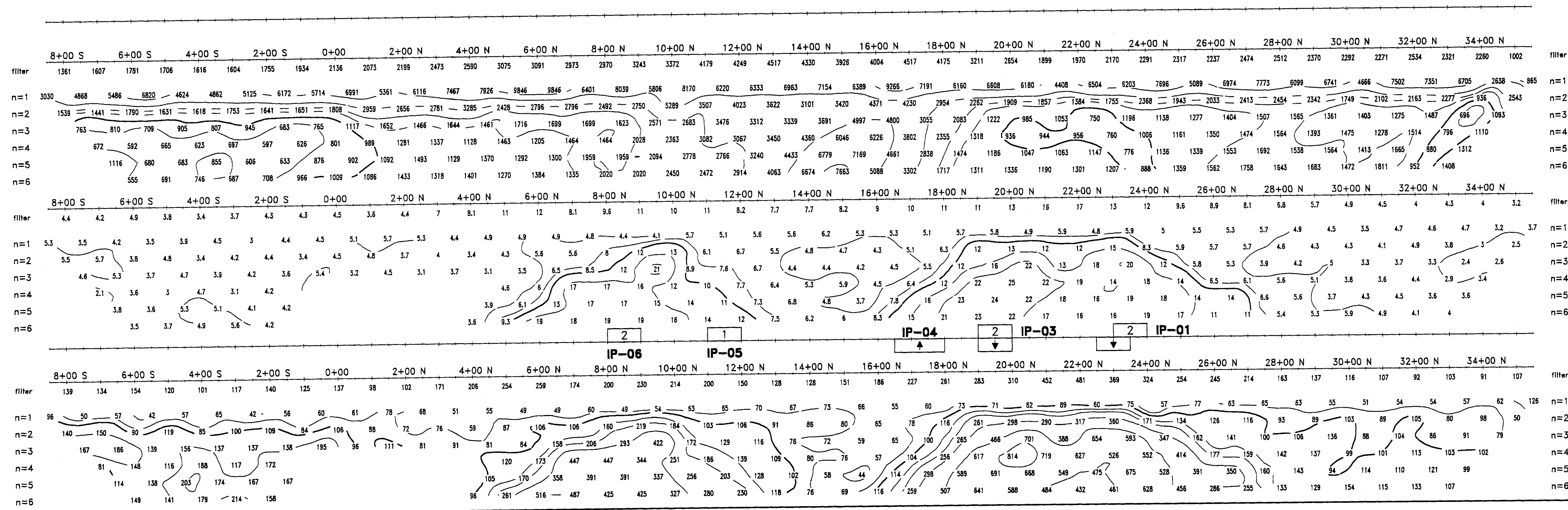
#### INTERPRETATION

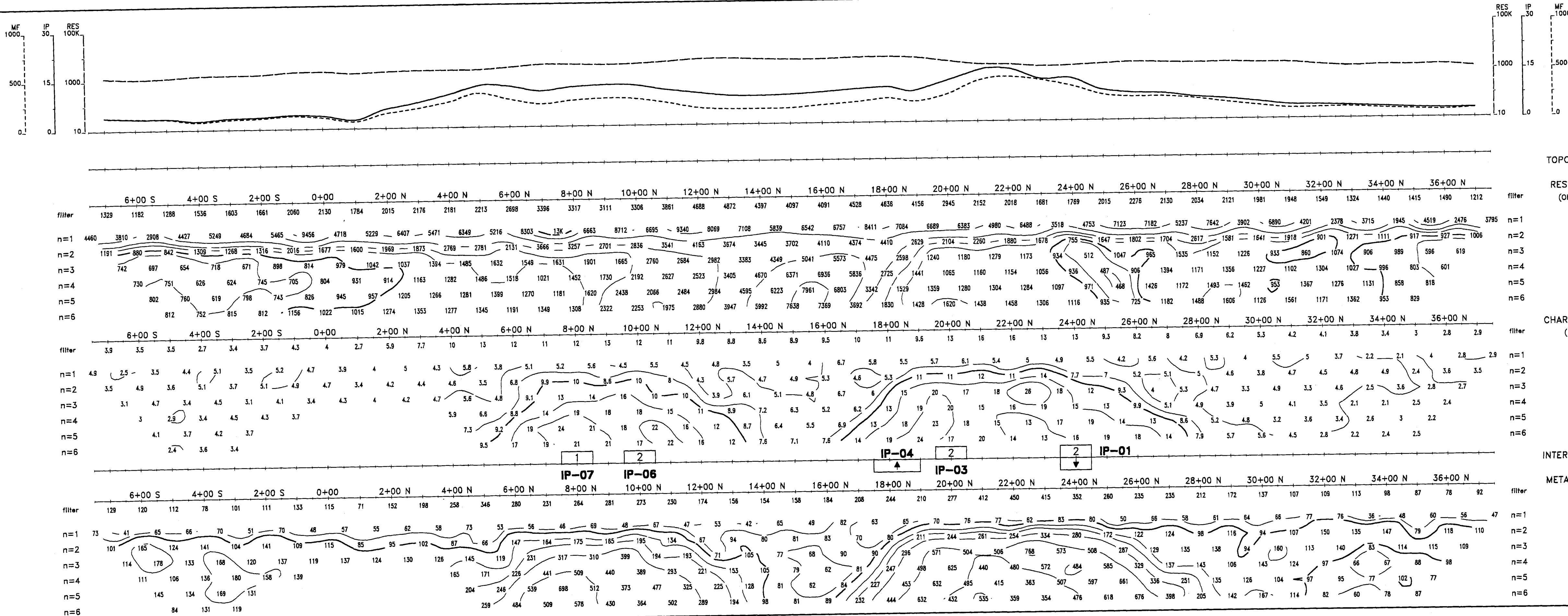
#### METAL FACTOR

### Induced Polarization Survey

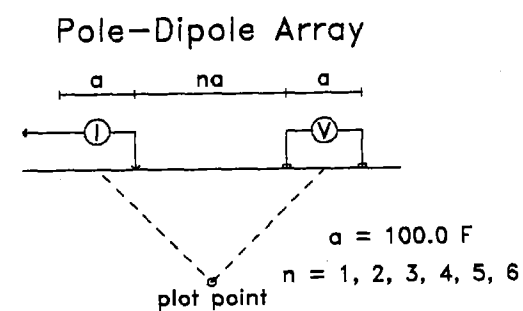
TRINITY EXPLORATIONS  
Munro Prospect  
Munro Township, Ontario  
Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.

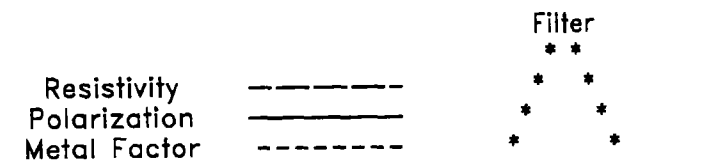




**Line 18+00 E**



**Filtered Profiles**

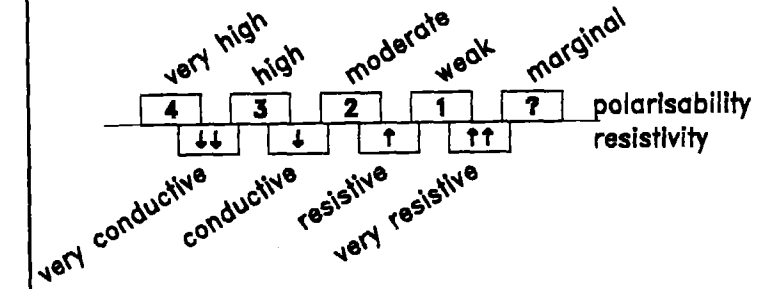


Logarithmic Contours  
1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau

Metal factor definition  $MF = 1000 * Ma / (Ra) - 0.5$

**Interpretation legend**



**TOPOGRAPHY**

RESISTIVITY  
(Ohm \* t)

CHARGEABILITY  
(mV/V)

**INTERPRETATION**

METAL FACTOR

**Induced Polarization Survey**

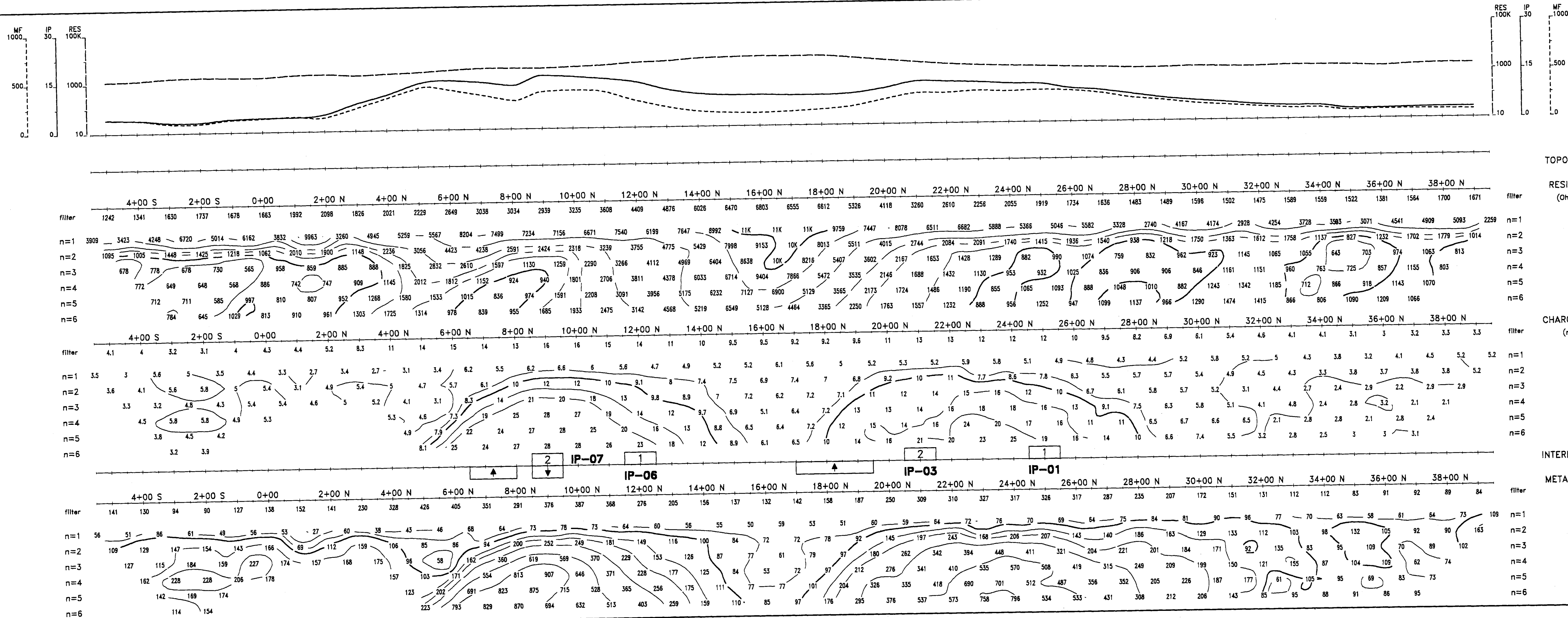
TRINITY EXPLORATIONS

Munro Prospect  
Munro Township, Ontario

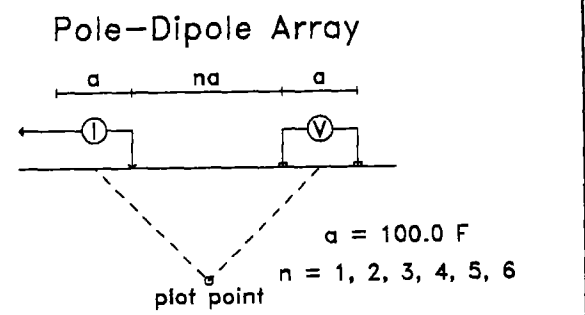
Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

**VAL D'OR SAGAX INC.**



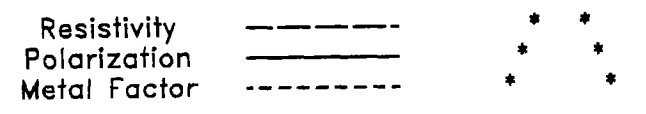


### Line 21+00 E



#### TOPOGRAPHY

RESISTIVITY  
(Ohm \* f)

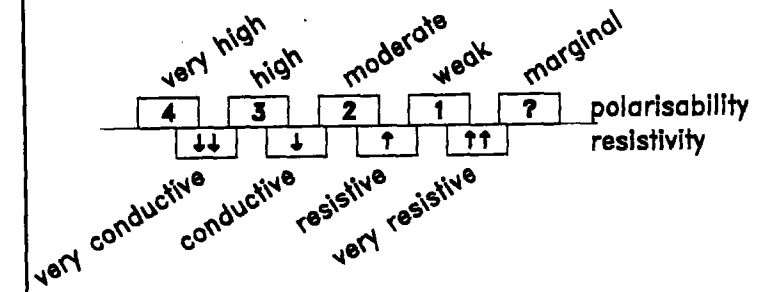


Logarithmic Contours  
1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: PHOENIX IPT1, BRGM IP-6  
 Time cycle: 2 sec.  
 Operator: Luc Bilodeau  
 Metal factor definition  $MF = 1000 * Ma / (Ra) - 0.5$

#### CHARGEABILITY (mV/V)

#### Interpretation legend



#### INTERPRETATION

#### METAL FACTOR

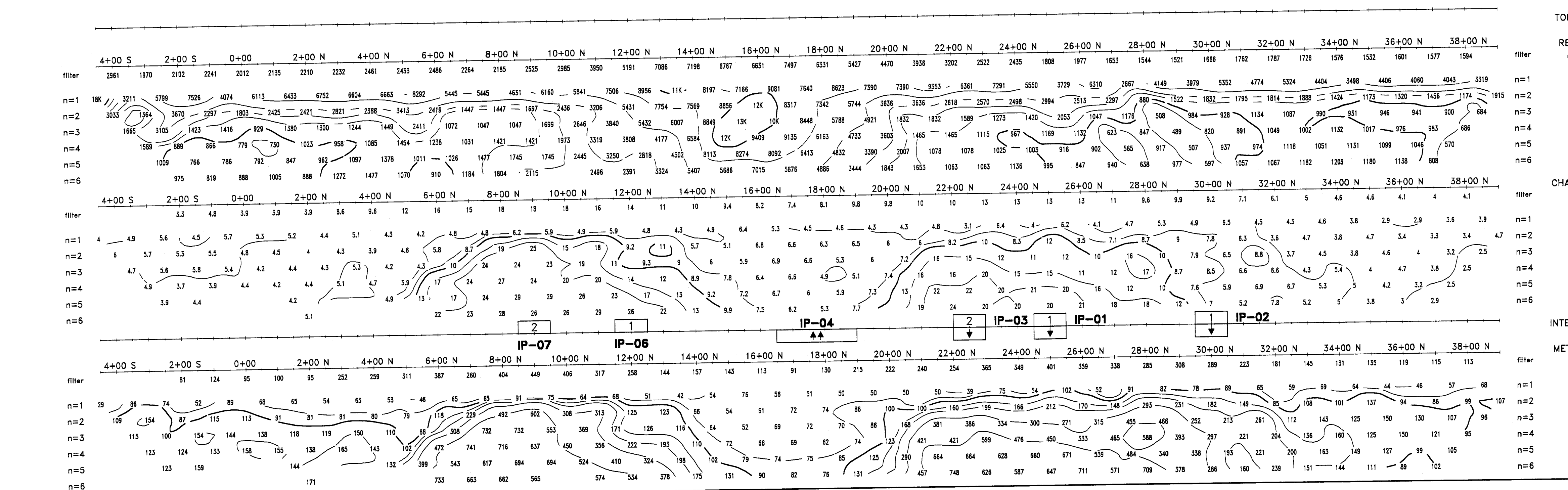
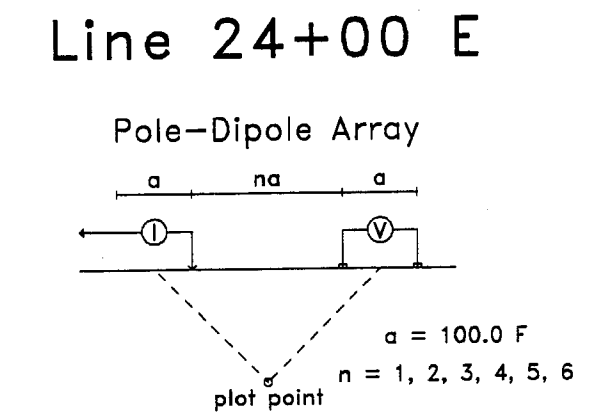
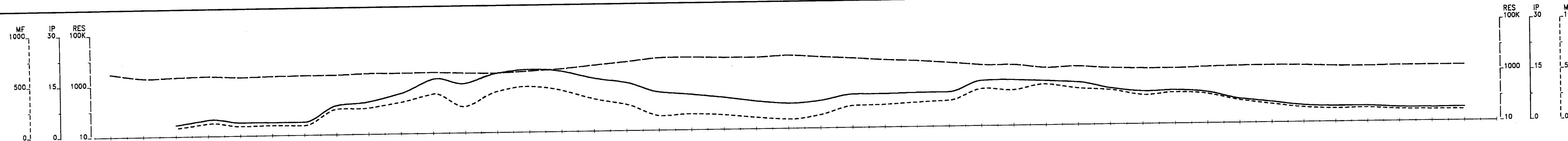
### Induced Polarization Survey

TRINITY EXPLORATIONS  
 Munro Prospect  
 Munro Township, Ontario

Date: 96/10/29  
 Interpretation by: M. Dubois, geophysicist  
 Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.





TOPOGRAPHY

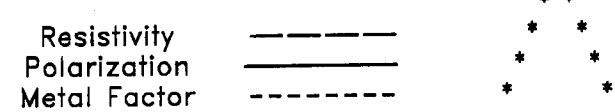
RESISTIVITY  
(Ohm \* f)

CHARGEABILITY  
(mV/V)

INTERPRETATION

METAL FACTOR

Filtered Profiles

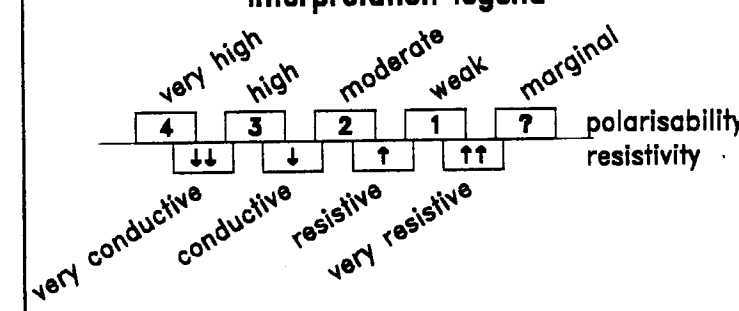


Logarithmic Contours  
1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau

Metal factor definition MF=1000\*Ma/(Ra)-0.5

Interpretation legend



INTERPRETATION

METAL FACTOR

Induced Polarization Survey

TRINITY EXPLORATIONS  
Munro Prospect  
Munro Township, Ontario

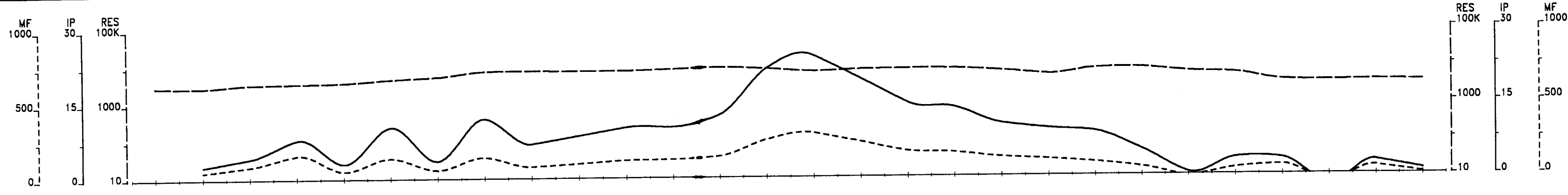
Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.

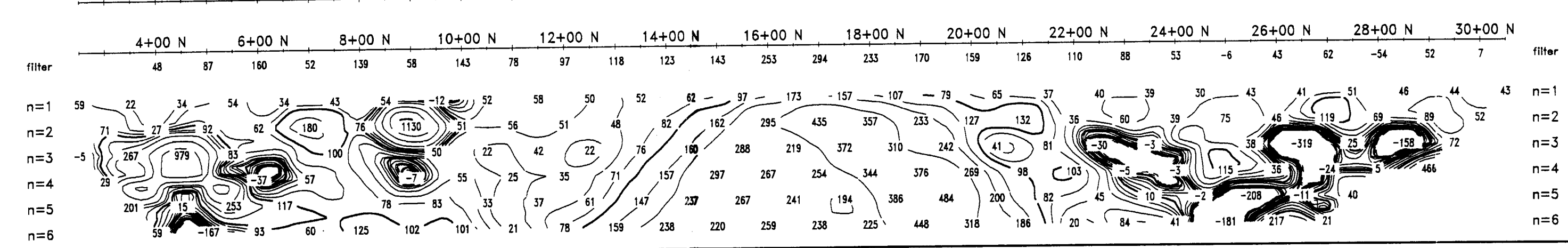
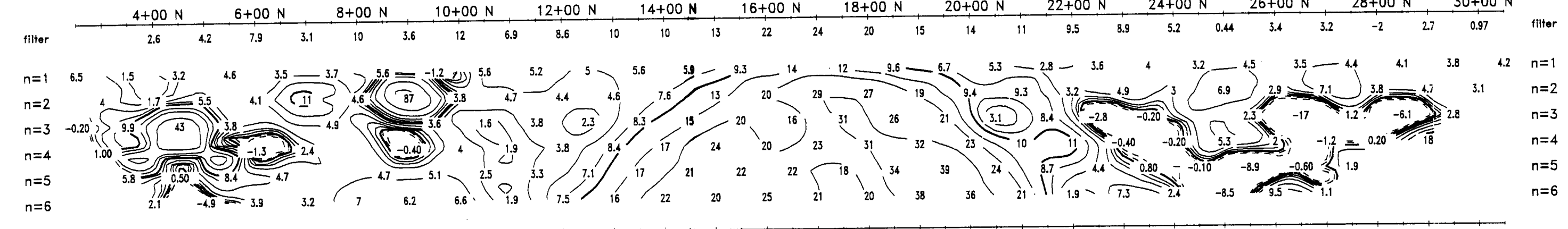
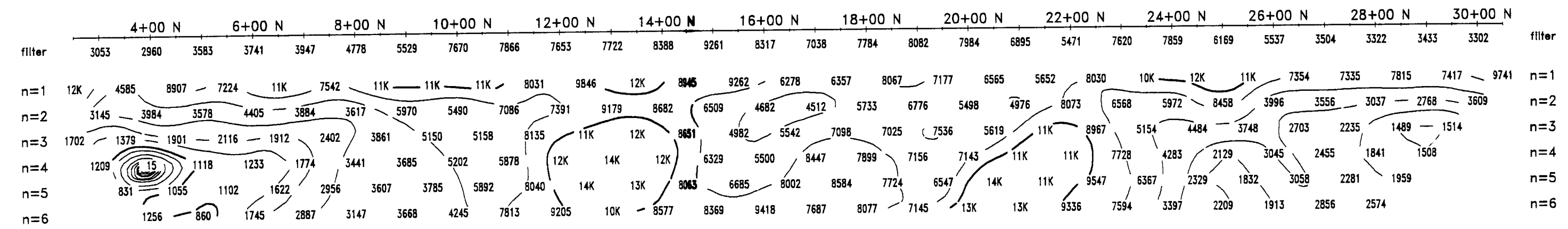
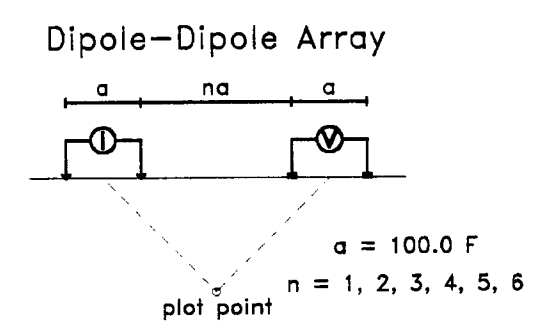


96-0088

## **DIPOLE-DIPOLE ARRAY**



### Line 1+50 E



#### TOPOGRAPHY

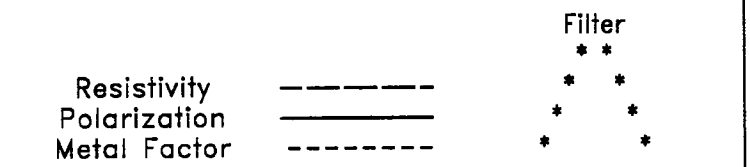
#### RESISTIVITY (Ohm \* f)

#### CHARGEABILITY (mV/V)

#### INTERPRETATION

#### METAL FACTOR

#### Filtered Profiles



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

Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau  
Metal factor definition MF=1000\*Ma/(Ra)-0.5

### Induced Polarization Survey

TRINITY EXPLORATIONS  
Munro Prospect  
Munro Township, Ontario

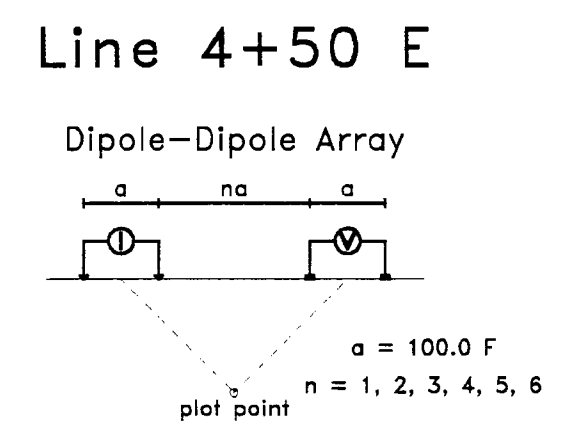
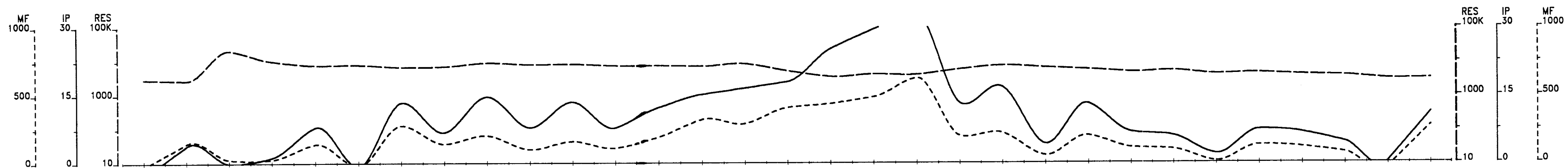
Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.

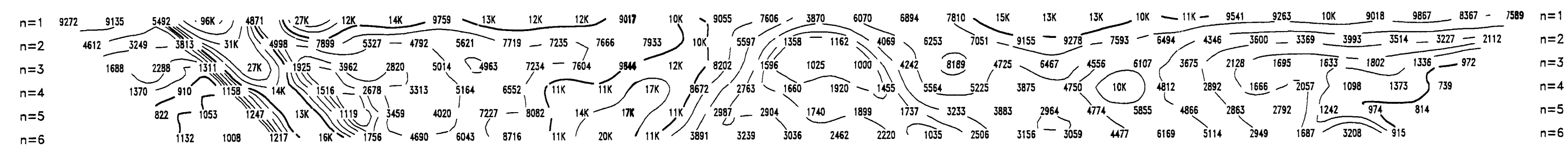


96-N068

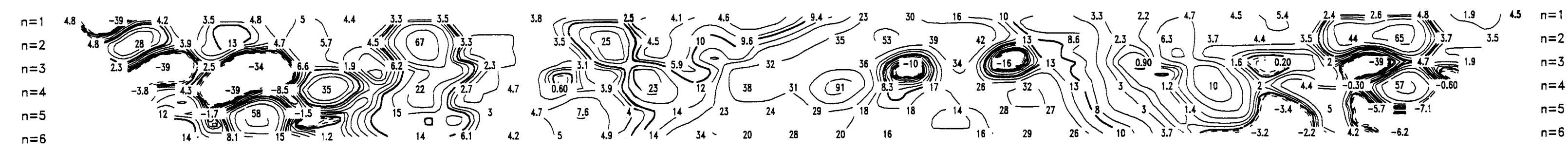




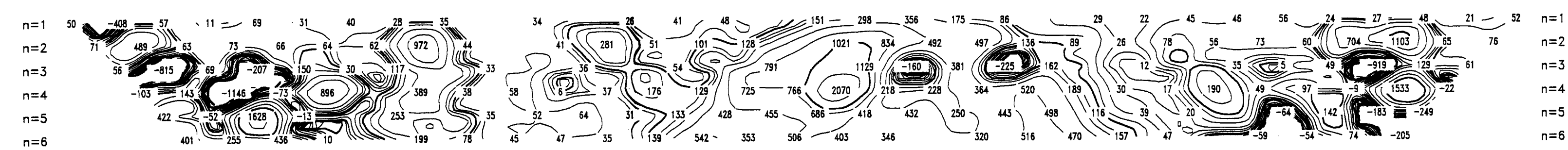
filter	2+00 N	4+00 N	6+00 N	8+00 N	10+00 N	12+00 N	14+00 N	16+00 N	18+00 N	20+00 N	22+00 N	24+00 N	26+00 N	28+00 N	30+00 N	32+00 N	filter															
	2952	2743	21K	10K	7784	7953	6851	7119	9144	8134	8366	7483	7497	7226	8454	5175	3512	4138	4012	5733	7389	8458	5865	4732	5258	4163	4444	3962	3692	2960	3016	



filter	2+00 N	4+00 N	6+00 N	8+00 N	10+00 N	12+00 N	14+00 N	16+00 N	18+00 N	20+00 N	22+00 N	24+00 N	26+00 N	28+00 N	30+00 N	32+00 N	filter															
	-2.9	3.9	-0.060	1.3	8	-0.80	13	6.8	15	7.9	14	7.8	12	15	17	18	25	30	33	13	17	4.2	13	6.8	6	2	7.3	6.7	4.6	0.22	11	



filter	2+00 N	4+00 N	6+00 N	8+00 N	10+00 N	12+00 N	14+00 N	16+00 N	18+00 N	20+00 N	22+00 N	24+00 N	26+00 N	28+00 N	30+00 N	32+00 N	filter															
	-27	146	27	28	141	-23	278	142	203	101	160	111	192	321	290	408	437	486	626	199	220	55	200	113	99	11	130	115	75	-36	276	



TOPOGRAPHY

RESISTIVITY  
(Ohm \* f)

CHARGEABILITY  
(mV/V)

INTERPRETATION

METAL FACTOR

### Filtered Profiles

Resistivity ————  
 Polarization ————  
 Metal Factor - - - - -

Filter  
\* \* \* \* \*

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

Instrument: PHOENIX IPT1, BRGM IP-6  
 Time cycle: 2 sec.  
 Operator: Luc Bilodeau  
 Metal factor definition  $MF = 1000 * Ma / (Ra) - 0.5$

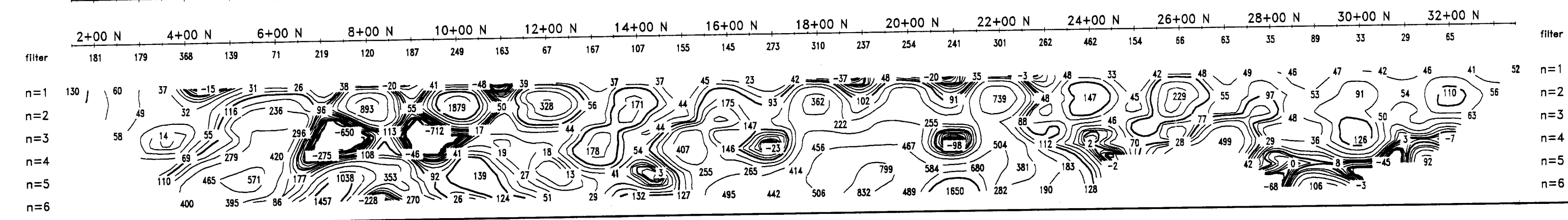
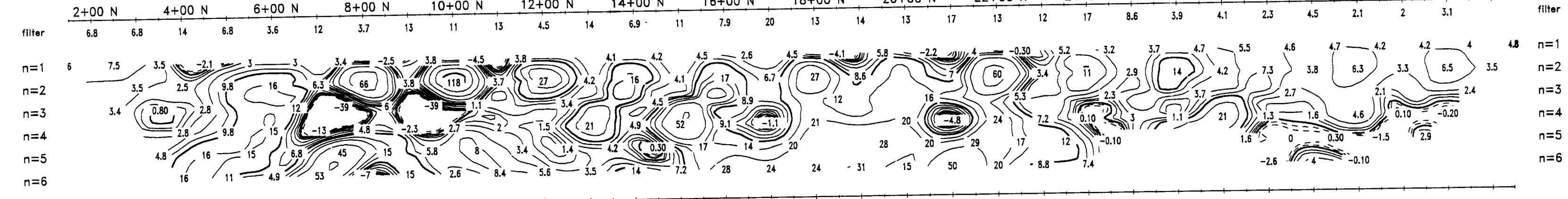
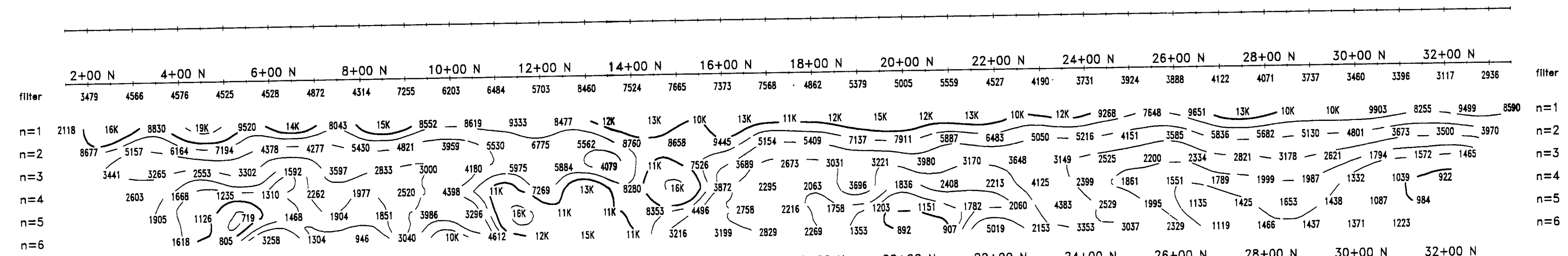
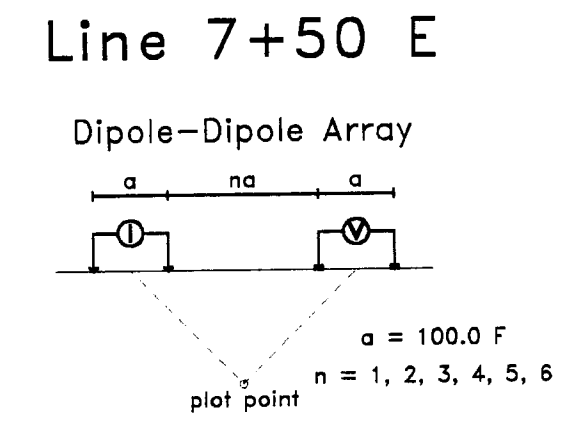
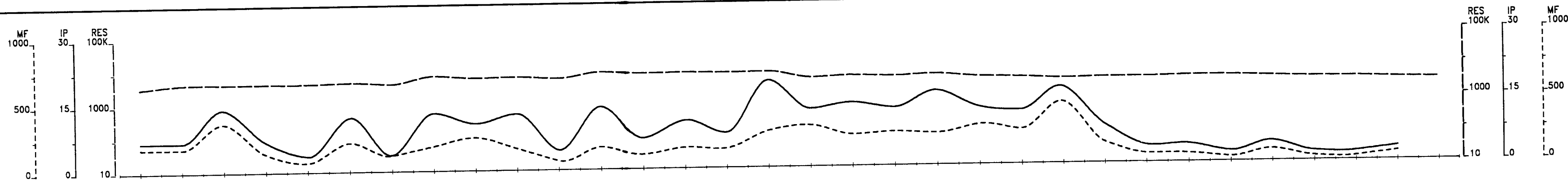
### Induced Polarization Survey

TRINITY EXPLORATIONS

Munro Prospect  
 Munro Township, Ontario

Date: 96/10/29  
 Interpretation by: M. Dubois, geophysicist  
 Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.



### Filtered Profiles

Resistivity: -----  
Polarization: =====  
Metal Factor: - - - - -

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

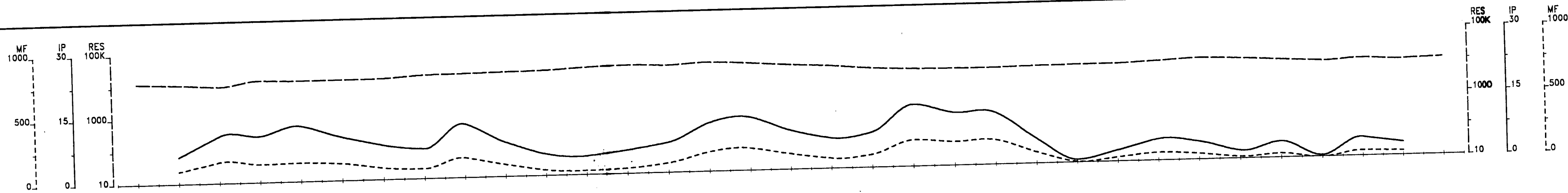
Instrument: PHOENIX IPT1, BRGM IP-6  
Time cycle: 2 sec.  
Operator: Luc Bilodeau  
Metal factor definition  $MF = 1000 * Ma / (Ra) - 0.5$

### Induced Polarization Survey

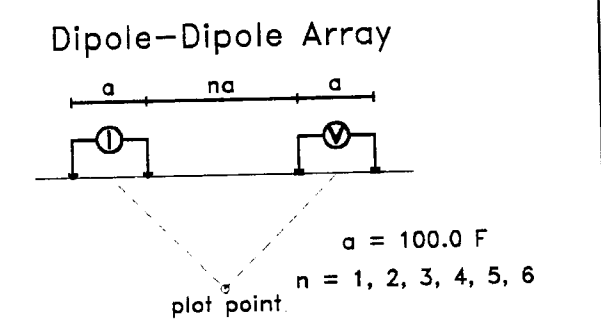
TRINITY EXPLORATIONS  
Munro Prospect  
Munro Township, Ontario

Date: 96/10/29  
Interpretation by: M. Dubois, geophysicist  
Scale 1 in. = 200 ft

VAL D'OR SAGAX INC.



### Line 10+50 E



#### Filtered Profiles

Resistivity ————  
 Polarization ————  
 Metal Factor - - - - -

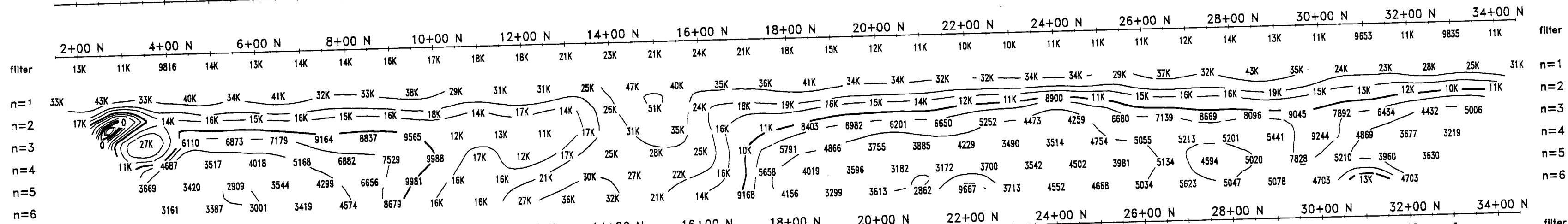
Filter  
 \* \* \* \* \*

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

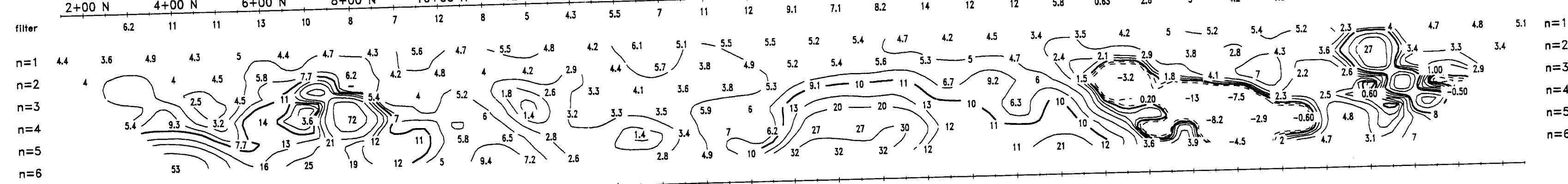
Instrument: PHOENIX IPT1, BRGM IP-6  
 Time cycle: 2 sec.  
 Operator: Luc Bilodeau  
 Metal factor definition MF=1000\*Ma/(Ra)-0.5

#### TOPOGRAPHY

#### RESISTIVITY (Ohm \* f)

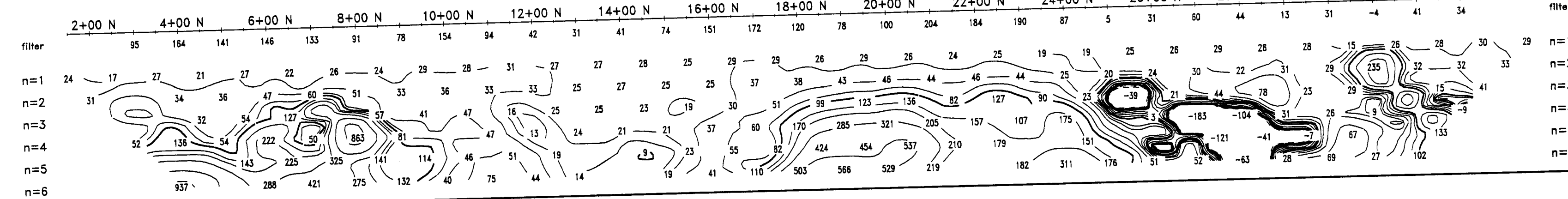


#### CHARGEABILITY (mV/V)



#### INTERPRETATION

#### METAL FACTOR



### Induced Polarization Survey

TRINITY EXPLORATIONS  
 Munro Prospect  
 Munro Township, Ontario

Date: 96/10/29  
 Interpretation by: M. Dubois, geophysicist  
 Scale 1 in. = 200 ft

VAL D'OR SAGAX INC. VAL D'OR SAGAX

96-N068

TRINITY: 'MUNRO PROSPECT'  
under section 8 of the  
mining land holder.  
Mines, 6th Floor,

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. This information is a public record. This information should be directed to:  
933 Ramsey Lake Road, Sudbury, Ontario, P3E 6K1



900

3

2.16913

Instructions: - For work performed on  
- Please type or print in

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

Name	2973090 CANADA INC	Client Number	300337
Address	152 chemin de la Mine Ecole Val d'Or, Quebec J9P 4N7	Telephone Number	819-824-6149
		Fax Number	819-824-1088
Name		Client Number	
Address		Telephone Number	
		Fax Number	

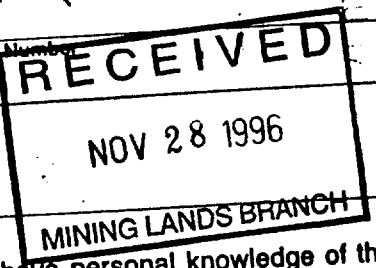
2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

<input checked="" type="checkbox"/> Geotechnical: prospecting, surveys, assays and work under section 18 (regs)	<input type="checkbox"/> Physical: drilling, stripping, trenching and associated assays	<input type="checkbox"/> Rehabilitation
Work Type	Office Use	
Geophysics: Horizontal-loop EM (HLEM) INDUCED POLARIZATION (I.P.)	Commodity	
	Total \$ Value of Work Claimed	42,508.00
Dates Work Performed From 3/9/96 To 13/9/96	NTS Reference	
Global Positioning System Data (if available)	Mining Division	Kirkland Lake
Township/Area MUNRO M or G-Plan Number M-376	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	100 50 Lamarque Boul. Val d'Or, Qc J9P 2H6	Fax Number	(819) 874-2002
Name		Telephone Number	
Address		Fax Number	
Name		Telephone Number	
Address		Fax Number	



4. Certification by Recorded Holder or Agent

I, Larry J. Stoliker (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	<u>Larry J. Stoliker</u>	Date	November 27/96
Agent's Address	103 Carter Avenue, Kirkland Lake P2N 1Z6 Nov. 4. 6. 25/96	Telephone Number	567-6883
		Fax Number	567-6873

the mining land where work was done must accompany this form.

eg	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.
	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	L-1049487	1	4191 \$10778			\$4191
2	1049488	1	10778 2395			10778
3	1049489	1	2395 1197			2395
4	1049490	1	1197 1796			1197
5	1049491	1	1796 5388			1796
6	1049492	1	5388 1796			5388
7	1049493	1	1796 599			1796
8	1049494	1	599 2095			599
9	1049495	1	2095 2994			2095
10	1049496	1	2994 1796			2994
11	1049497	1	1796 1796			1796
12	1049498	1	1796 599			1796
13	1049499	1	599			599
14	1049614	1	1197			1197
15	1049615	1	2095			2095
Column Totals						

I, Larry J. Staliker (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: Larry J. Staliker Date: November 22/96

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, working backwards; 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  
\$42,508  
name  
\$42,508

Deemed Approved Date <u>Feb. 25/97</u>	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

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	L-1111551	1	\$1197		\$1197
17	L-1111552	1	599		599
<i>17 Claims 17 Units</i>				2.16913	
17 claims		17 units			\$42508
Column Totals		\$42508			

**RECEIVED**  
 NOV 28 1996  
 MINING LANDS BRANCH

Statement of Costs - "Munro Prospect"

Munro Township - Ontario

Summer Program, 1996

2 . 1 6 9 1 3

Cost (\$):

Item (Description):

A) Direct Field Costs: (\$37,038.18)

= \$ 7920.68

- linecutting:

- geophysical surveys:

29117.50

Horizontal Loop

Induced Polarization

B) Support Costs: (\$5,470)

= \$ 780

- Vehicle Expense: 2600 km @ \$0.30/km

= \$ 2000

- Food & Accomodation: IP Crew(8 days, 5-man crew)

= \$ 500

HLEM Crew(5 days, 2-man crew)

= \$ 1000

- Drafting

= \$ 550

- ATV rental

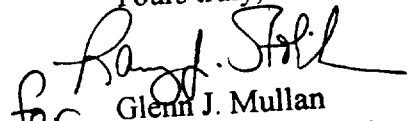
= \$ 650

- Consumables: flagging tape, topofil, paint, batteries, etc.

Total amount calculated for assessment work is \$37038.18 + \$5470 = \$42508.18

Total Claimed: \$42,508.

Yours truly,

for   
Glenn J. Mullan  
November 22, 1996



January 31, 1997

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

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

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

Dear Sir or Madam:

Submission Number: 2.16913

	<b>Status</b>
<b>Subject: Transaction Number(s):</b> W9680.00585	Approval

---

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 Bruce Gates by e-mail at gates\_b@torv05.ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

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



## Work Report Assessment Results

---

**Submission Number:** 2.16913

**Date Correspondence Sent:** January 31, 1997

**Assessor:** Bruce Gates

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9680.00585	1049487	MUNRO	Approval	January 30, 1997

**Section:**

14 Geophysical EM

14 Geophysical IP

**Correspondence to:**

Mining Recorder  
Kirkland Lake, ON

Resident Geologist  
Kirkland Lake, ON

Assessment Files Library  
Sudbury, ON

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

Larry J. Stoliker  
KIRKLAND LAKE, ONTARIO, CANADA

2973090 CANADA INC.  
VAL D'OR, QUEBEC

WARDEN TWP M-397

THE TOWNSHIP  
OF  
**2.16913**  
**MUNRO**

DISTRICT OF  
COCHRANE

LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

- PATENTED LAND ● or P
- CROWN LAND SALE C.S.
- LEASES L
- LOCATED LAND LOC.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAY
- RAILWAYS
- RAILROADS
- MARSH OR MURKETS
- MINES
- CANCELLED
- PATENTED S.R.O.

NOTES

- 400' Surface rights reservation along the shores of all lakes and rivers.
- Areas withdrawn from staking
- (R1) SURFACE RIGHTS WITHDRAWN FROM STAKING, SECTION 164386, 9/1/69
- (R2) SURFACE RIGHTS WITHDRAWN FROM STAKING, SECTION 164382, W. 1/177, 10/2/77
- (R3) SURFACE RIGHTS WITHDRAWN FROM STAKING, SECTION 164382, N.W. 16/83, 2/3/83
- (R4) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING, N.W. 87/86, 22/10/86
- 0-08/88L OPENS PART OF NRW87/86

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE WATABEAG MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT P.O. BOX 129 SWASTIKA, ONT. POK ITO 705-642-3222

PLAN NO. **M-376**

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

BEATTY TWP M-324

MC COOL TWP M-365

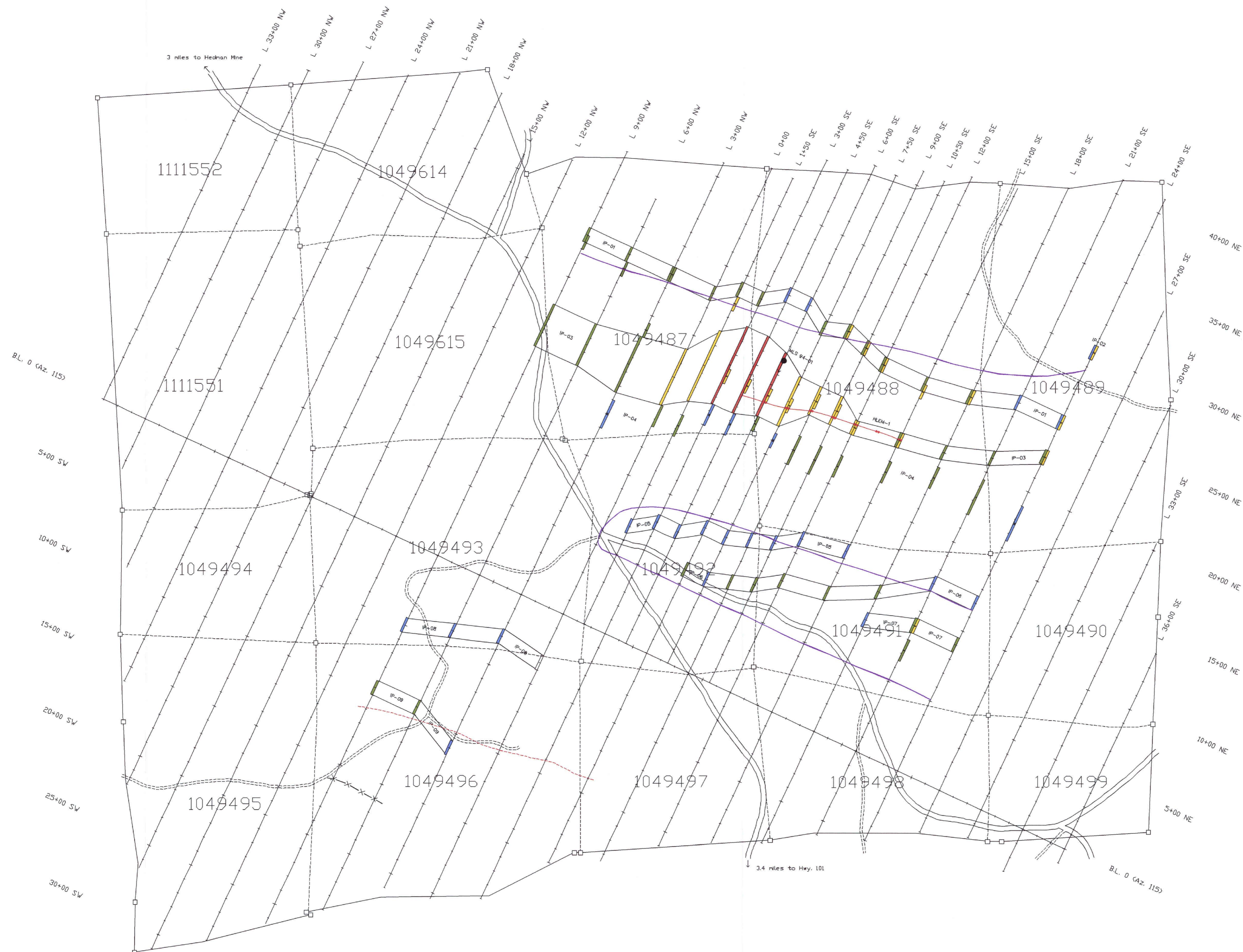
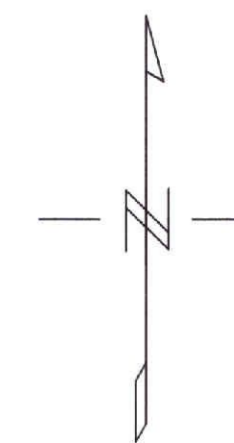
GUIBORD TWP M-352

COPY OF THIS MYLAR  
ARCHIVED MAR.26/92  
ARCHIVED MARCH 3, 1993

M-376

MUNRO TWP

M-376



LEGEND

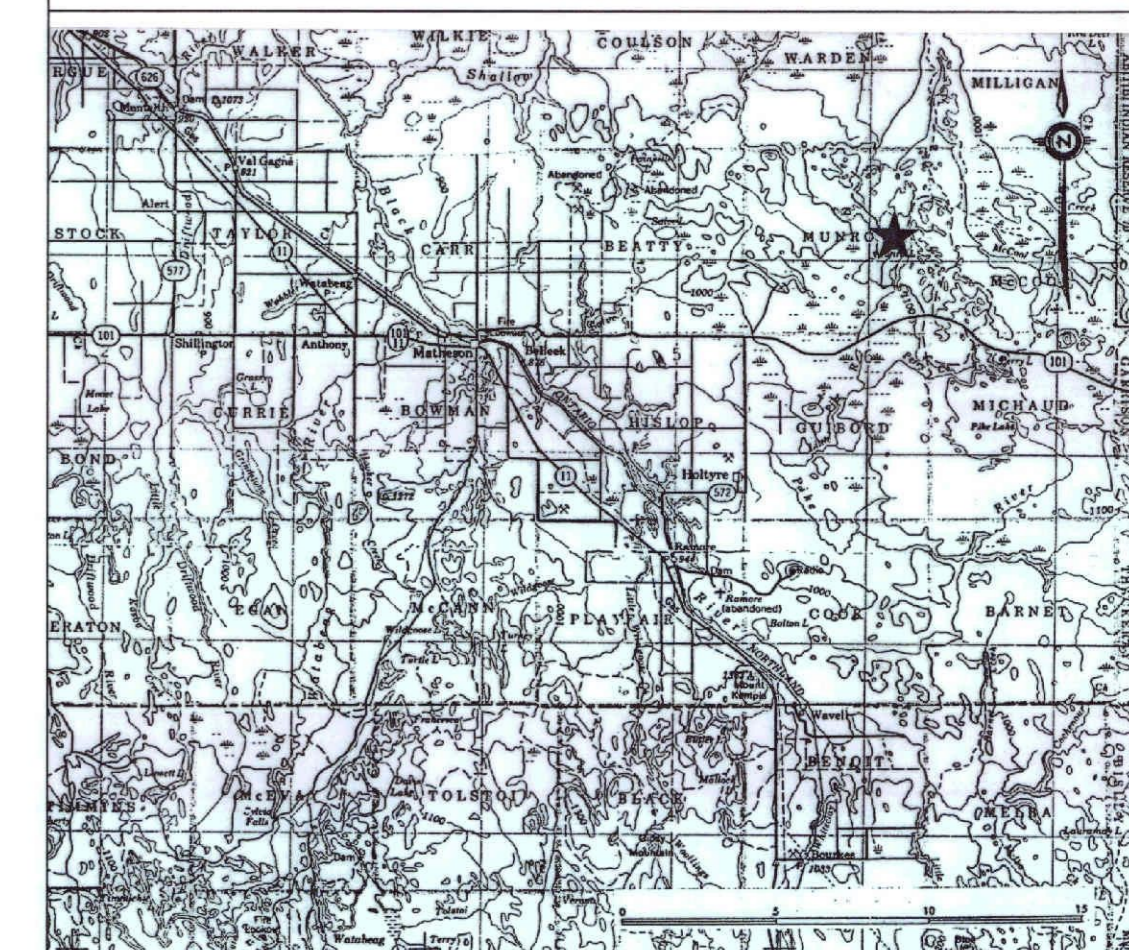
INDUCED POLARIZATION

POLARIZATION	RESISTIVITY
Very high	Very resistive
High	Resistive
Moderate	Conductive
Weak	Very conductive
Marginal	

- HLEM conductor axis
- Geological contact
- Esker boundary
- Diamond drill hole
- Geological contact interpreted



SCALE 1 : 3 600  
(feet)

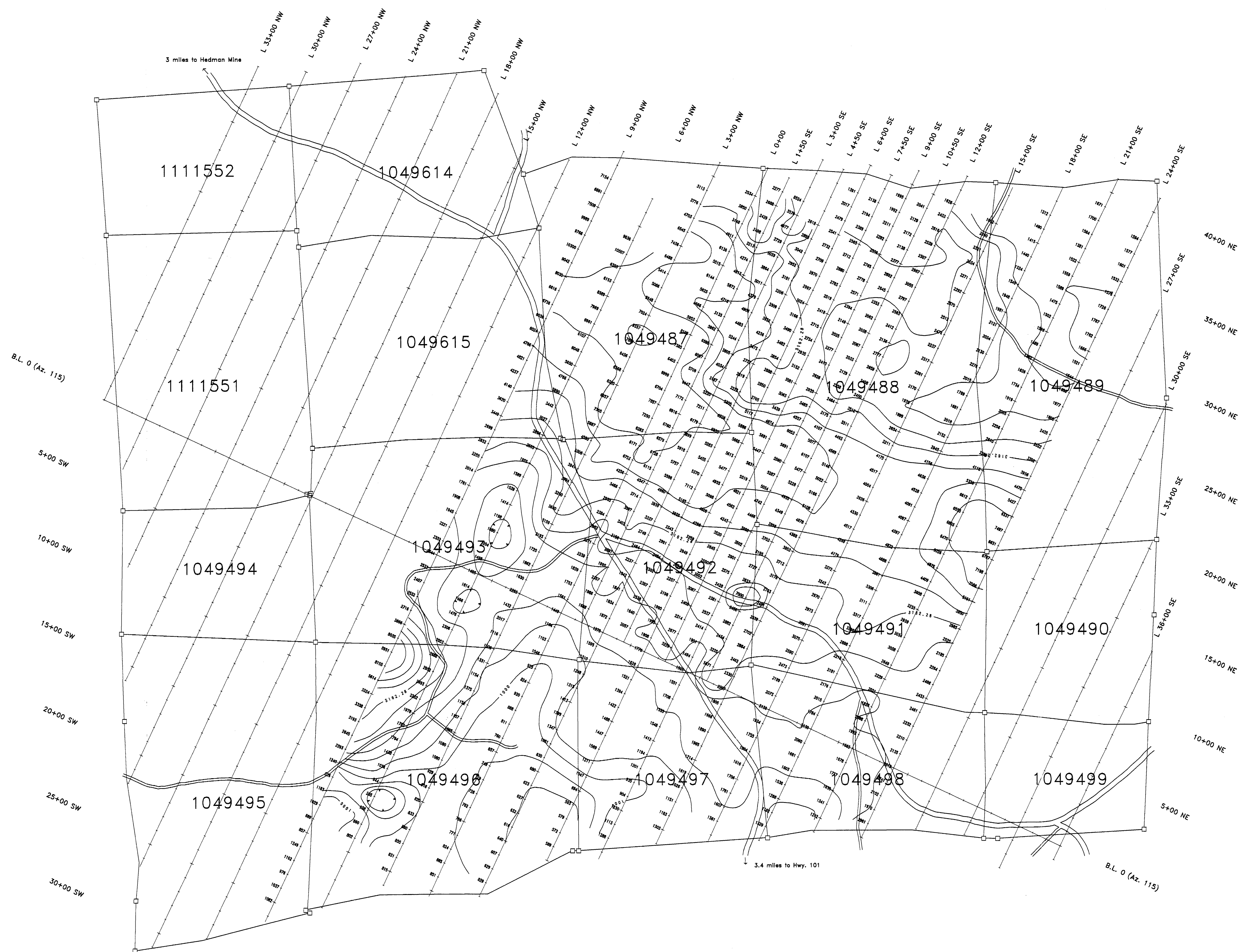
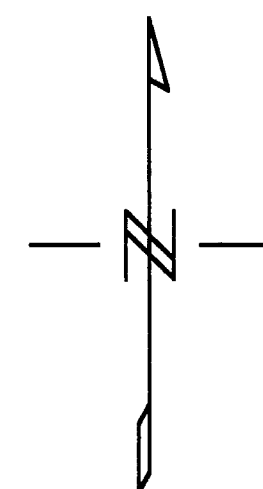


TRINITY EXPLORATIONS  
MUNRO PROSPECT  
2.16913  
GEOPHYSICAL INTERPRETATION

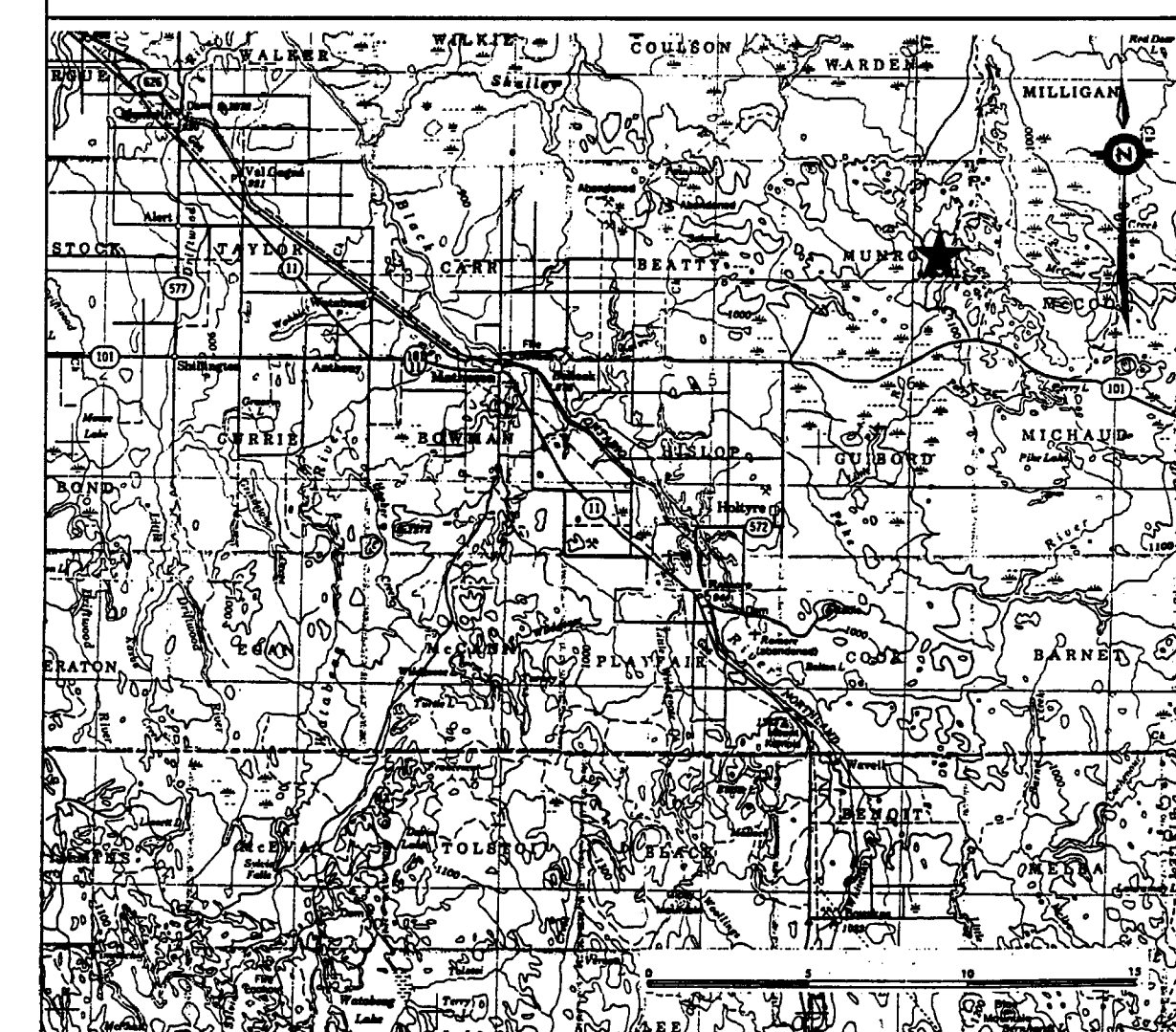
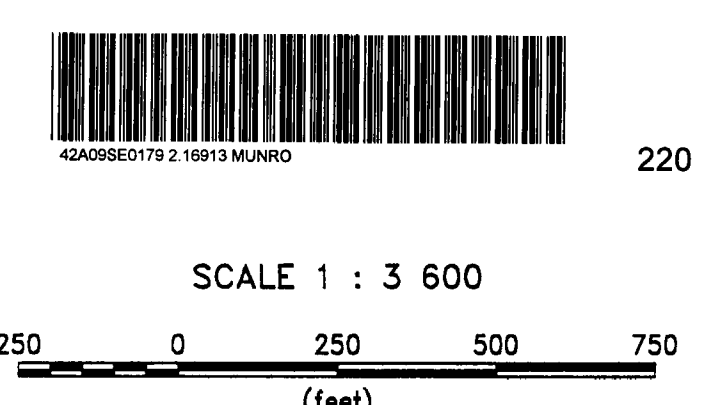
VAL D'OR SAGAX INC.

Interpreted by: M. Dubois, geoph. Date: 10/96

Scale 1 in = 300 f. Drawing no: 96-N068-7.0



**LEGEND**  
**CONTOUR INTERVALS (Ohm-metre)**  
Logarithmic contours:  
0.1 10, 12.5, 16, 20, 25, 32, 40 ..  
0.5 10, 32, 100, 320, 1000 ..  
Electrode array: Pole-dipole  
a = 100 ft. n = 1,2,3,4,5,6  
Instruments: EDA IP-6, Phoenix IPT  
Period: 1 second

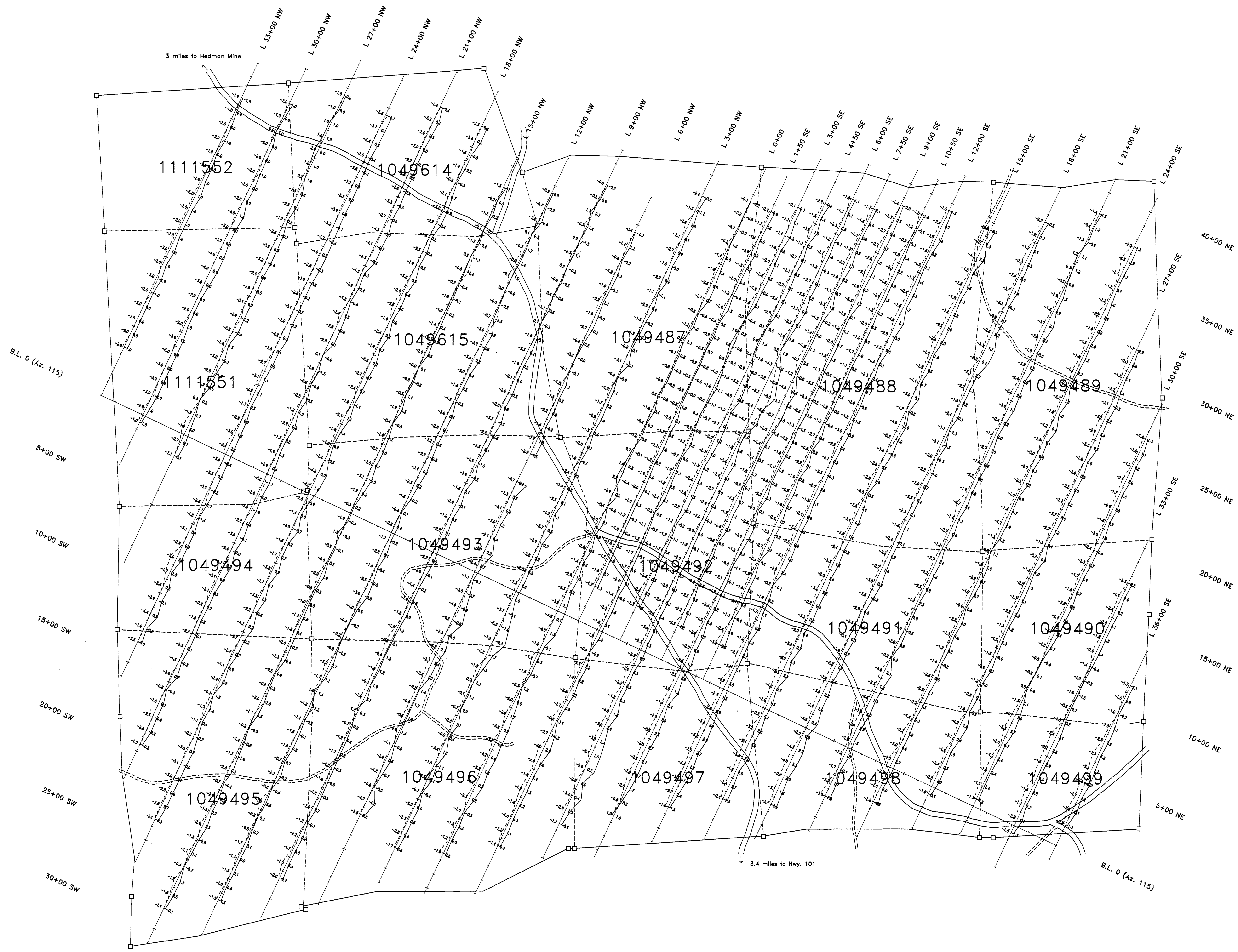
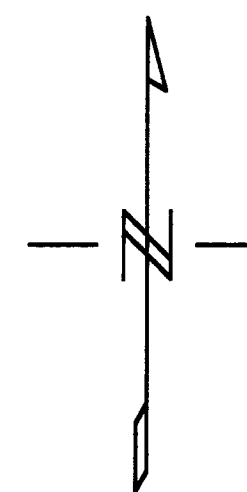


2 16913  
**TRINITY EXPLORATIONS**  
**MUNRO PROSPECT**

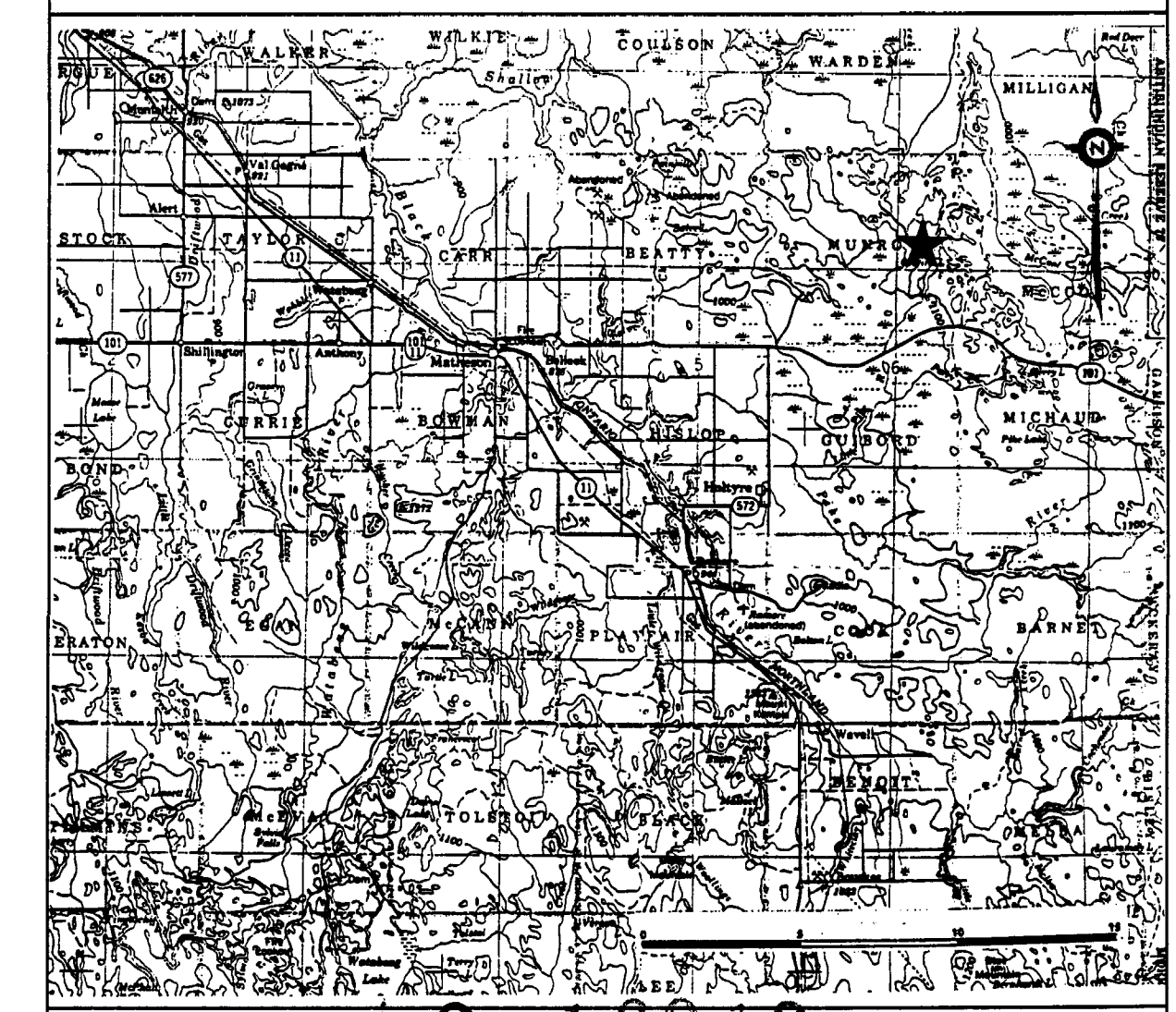
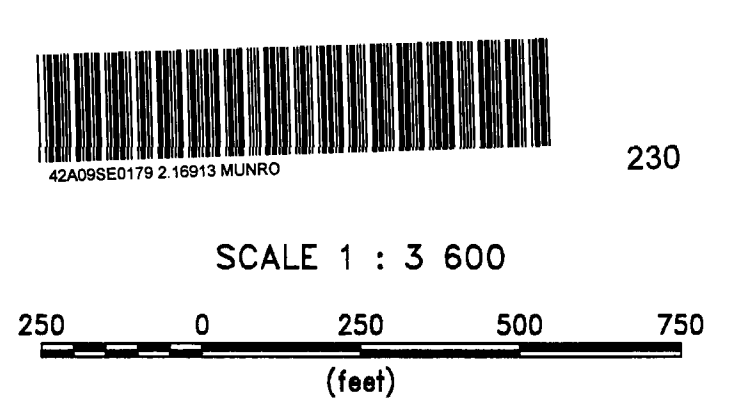
**INDUCED POLARIZATION SURVEY**  
**RESISTIVITY CONTOURS (FILTER)**

VAL D'OR SAGAX INC.

Interpreted by: M. Dubois, geoph. Date: 10/96  
Scale 1 in = 300 f. Drawing no: 96-N068-4.2



**LEGEND**  
**ELECTROMAGNETIC HLEM PROFILES**  
— In-phase 1 cm. = 10 %  
- - - - - Out-of-phase 1 cm. = 10 %  
Readings: In-Phase %    Out-of-phase %  
Instrument: APEX, MAXMIN I

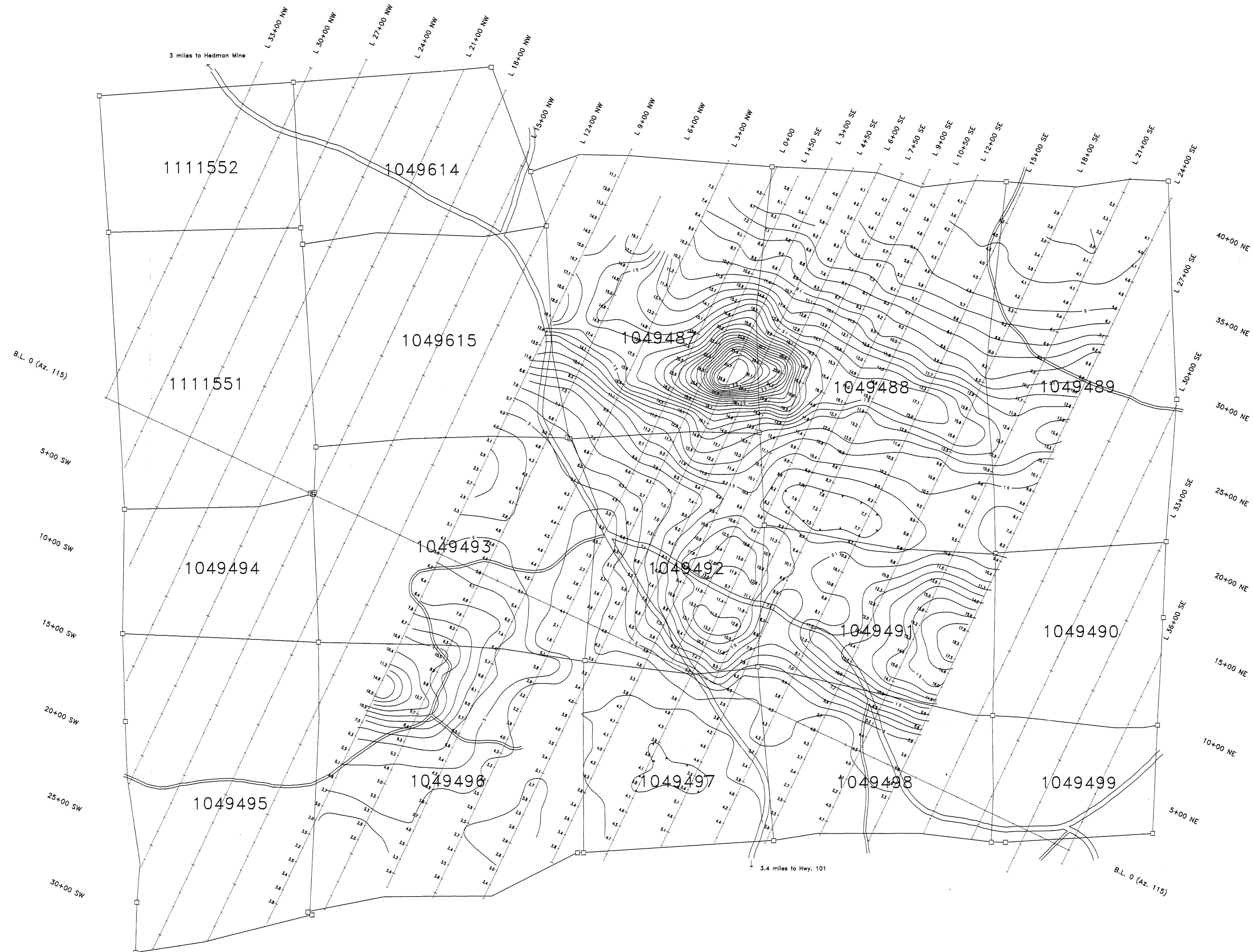
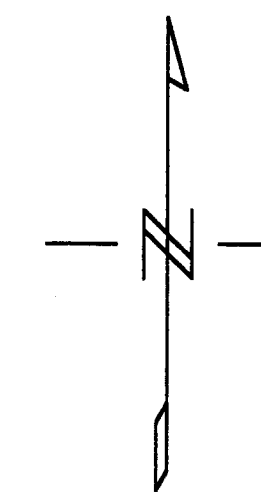


**TRINITY EXPLORATIONS  
MUNRO PROSPECT**

**ELECTROMAGNETIC HLEM SURVEY**  
FREQUENCY = 444 HZ CABLE = 500 FT.

VAL D'OR SAGAX INC.

Interpreted by: M. Dubois, geoph.    Date: 10/96  
Scale 1 in = 300 f.    Drawing no: 96-N068-3.2



**LEGEND**  
**CONTOUR INTERVALS (mV/V)**  
 Linear contours:  
 1  
 5  
 Electrode array: Pole-dipole  
 a = 100 f. n = 1,2,3,4,5,6  
 Instruments: EDA IP-6, Phoenix IPT1  
 Period: 2 sec.



SCALE 1 : 3 600  
 250 0 250 500 750  
 (feet)



**TRINITY EXPLORATIONS  
 MUNRO PROSPECT**

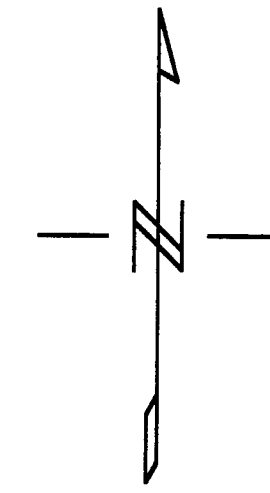
**INDUCED POLARIZATION SURVEY  
 CHARGEABILITY CONTOURS (FILTER)**

VAL D'OR SAGAX INC.

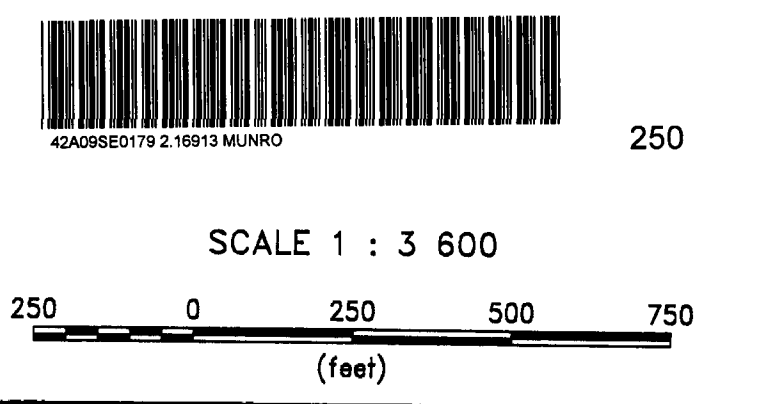


Interpreted by: M. Dubois, geoph. Date: 10/96

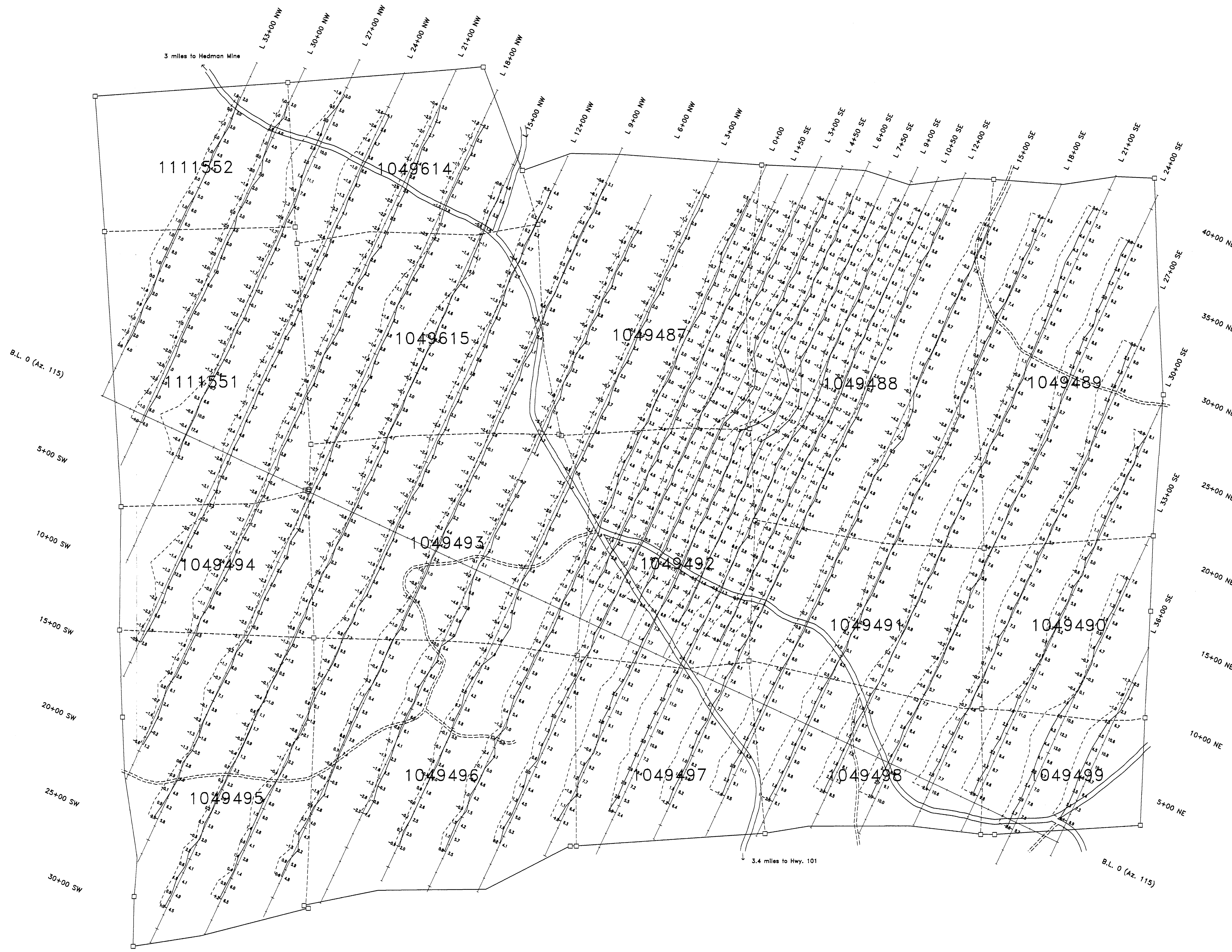
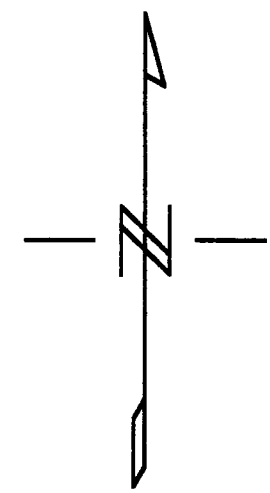
Scale 1 in = 300 f. Drawing no: 96-N068-4.3



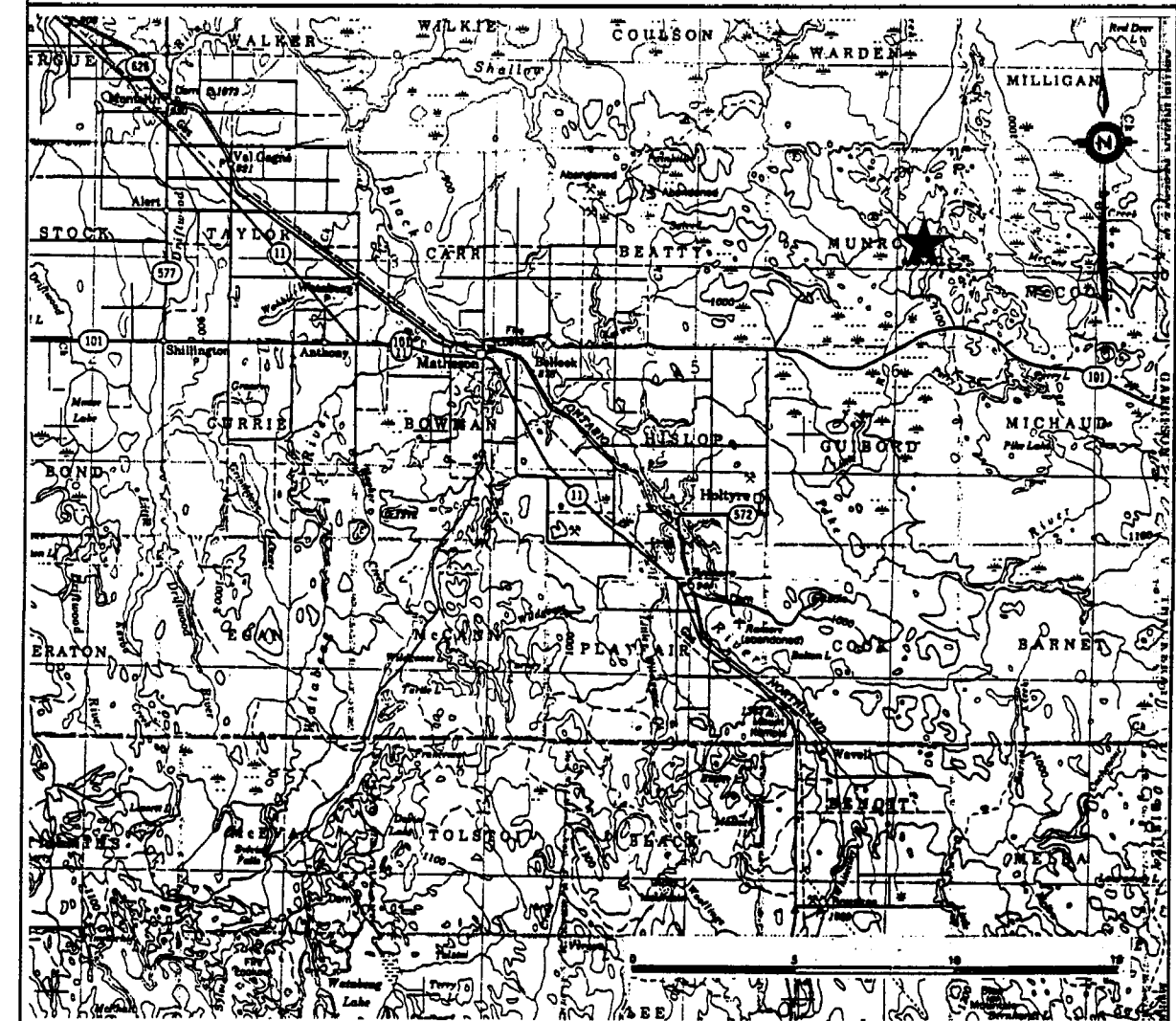
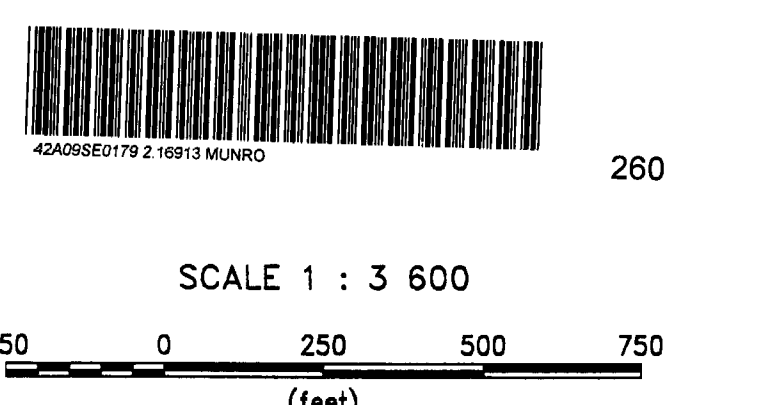
**LEGEND**  
**ELECTROMAGNETIC HLEM PROFILES**  
 - - - - - In-phase 1 cm. = 10 %  
 . . . . . Out-of-phase 1 cm. = 10 %  
 Readings: In-Phase 1 -1 Out-of-phase %  
 Instrument: APEX, MAXMIN 1



2.16918  
**TRINITY EXPLORATIONS**  
**MUNRO PROSPECT**  
**ELECTROMAGNETIC HLEM SURVEY**  
 FREQUENCY = 1777 HZ CABLE = 500 FT.  
**VAL D'OR SAGAX INC.**  
 Interpreted by: M. Dubois, geoph. Date: 10/96  
 Scale 1 in = 300 f. Drawing no: 96-N068-3.4



**LEGEND**  
**ELECTROMAGNETIC HLEM PROFILES**  
 — In-phase 1 cm. = 10 %  
 - - - - - Out-of-phase 1 cm. = 10 %  
 Readings: In-Phase % 1:1 Out-of-phase %  
 Instrument: APEX, MAXMIN I



2 16 13  
**TRINITY EXPLORATIONS**  
**MUNRO PROSPECT**

**ELECTROMAGNETIC HLEM SURVEY**  
 FREQUENCY = 3555 HZ CABLE = 500 FT.

VAL D'OR SAGAX INC.

Interpreted by: M. Dubois, geoph. Date: 10/96  
 Scale 1 in = 300 f. Drawing no: 96-N068-3.5