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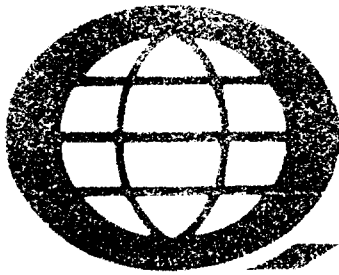
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# **Quantec Geoscience Inc.**

# **Geophysical Survey**

# **Logistical Report**



**Quantec**

2.20381

*Regarding the*  
***DIPOLE-DIPOLE TDIP SURVEY***  
*at the RIVER VALLEY PROJECT,*  
*near River Valley, ON*  
*on behalf of*  
***MUSTANG MINERALS CORPORATION***  
*Toronto, Ontario*

# ***QGI-QGI-QGI-QGI***

JM Legault,  
K Blackshaw  
D. MacGillivray  
May, 2000  
Project QG-112



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## TABLE OF CONTENTS

1. INTRODUCTION.....	3
2. GENERAL SURVEY DETAILS.....	4
2.1 LOCATION.....	4
2.2 ACCESS.....	5
2.3 SURVEY GRID.....	5
3. SURVEY WORK UNDERTAKEN.....	6
3.1 GENERALITIES.....	6
3.2 PERSONNEL.....	6
3.3 SURVEY SPECIFICATIONS.....	6
3.4 SURVEY COVERAGE.....	7, 8
3.5 INSTRUMENTATION.....	9
3.6 PARAMETERS.....	9
3.7 MEASUREMENT ACCURACY AND REPEATABILITY.....	9
3.8 DATA PRESENTATION.....	10, 10

APPENDIX A: STATEMENT OF QUALIFICATIONS

APPENDIX B: PROCEDURES PRODUCTION LOG

APPENDIX C: THEORETICAL BASIS AND SURVEY

APPENDIX D: INSTRUMENT SPECIFICATIONS

APPENDIX E: LIST OF MAPS

APPENDIX F: MAPS AND SECTIONS

## LIST OF TABLES AND FIGURES

Figure 1: River Valley Project General Location Map.....	4
Figure 2: Dipole - Dipole Array Layout.....	7
Table I: Dipole-Dipole TDIP Survey Coverage.....	7
Table II: Dipole-Dipole TDIP Survey Coverage.....	8

## 1. INTRODUCTION

- **QGI Project No:** QG-112
- **Project Name:** River Valley PGM Property
- **Survey Period:** April 4<sup>TH</sup> to May 8<sup>TH</sup>, 2000
- **Survey Type:** Dipole-Dipole Time Domain Induced Polarization
- **Client:** Mustang Minerals Corporation
- **Client Address**  
120 Adelaide Street West.  
Suite 514  
Toronto, Ontario  
M5H 1T1
- **Representatives:** Mr. Ken Lapierre  
Mr. Peter Wood

- **Objectives:**

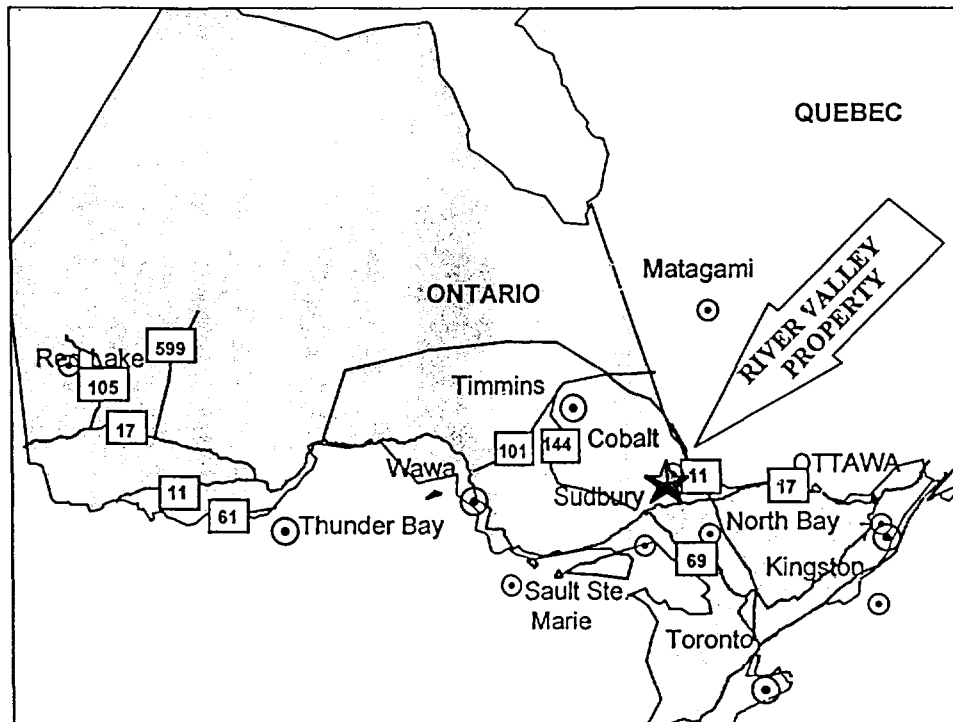
To define and delineate, using TDIP\Resistivity, favourable signatures associated with contact-type magmatic PGM-bearing sulphide mineralization. This survey targets the margins and floor of the River Valley intrusion that occurs on the property. The Dipole-Dipole array was chosen based on its high resolution and shallow mapping capability, due to the thin overburden cover and shallow nature of the drill targets sought after.

- **Report Type:** Logistical

## 2. GENERAL SURVEY DETAILS

### 2.1 LOCATION

- **General Location:** River Valley, NW of Sturgeon Falls ON.(see Fig. 1)
- **Country:** Canada
- **Township:** Crerar, Dana and McWilliams Townships
- **Province:** Ontario
- **Nearest Major Settlement:** River Valley, ON
- **NTS Map Reference:** North grid = 41-1/09  
South grid = 41-1/09



*Figure 1: River Valley Project General Location Map*



## 2.2 ACCESS

- **Base of Operations:** Maurice Giroux's apartment, River Valley
- **Mode of Access:** 4x4 truck and a 4x4 quad

## 2.3 SURVEY GRID

- **Coordinate Reference System:** Local exploration grid
- **Established by:** Previously established by Mustang Minerals Corp.
- **Line Direction:** North Grid = Azimuth 110°(Grid N-S)  
South Grid = Azimuth 88°(Grid N-S)
- **Line Separation:** 200 metres
- **Station Interval:** 25 metres
- **Method of Chaining:** Metric, slope distance
- **Claims No. Surveyed<sup>1</sup>:** North Grid = 1214638, 1229152, 1229153, 1229154,  
1229155, 1231265, 1231181  
South Grid = 1214609, 1214610, 1214771, 1214772,  
1214773, 1229523, 1229526, 1229527,  
1231119, 1231253

<sup>1</sup> Note, claim numbers from North /South Grid IP Survey, Mustang Minerals Corp., DWG. Ngrid\_Quantec & SGrid\_Quantec, 04/2000.

### 3. SURVEY WORK UNDERTAKEN

#### 3.1 GENERALITIES

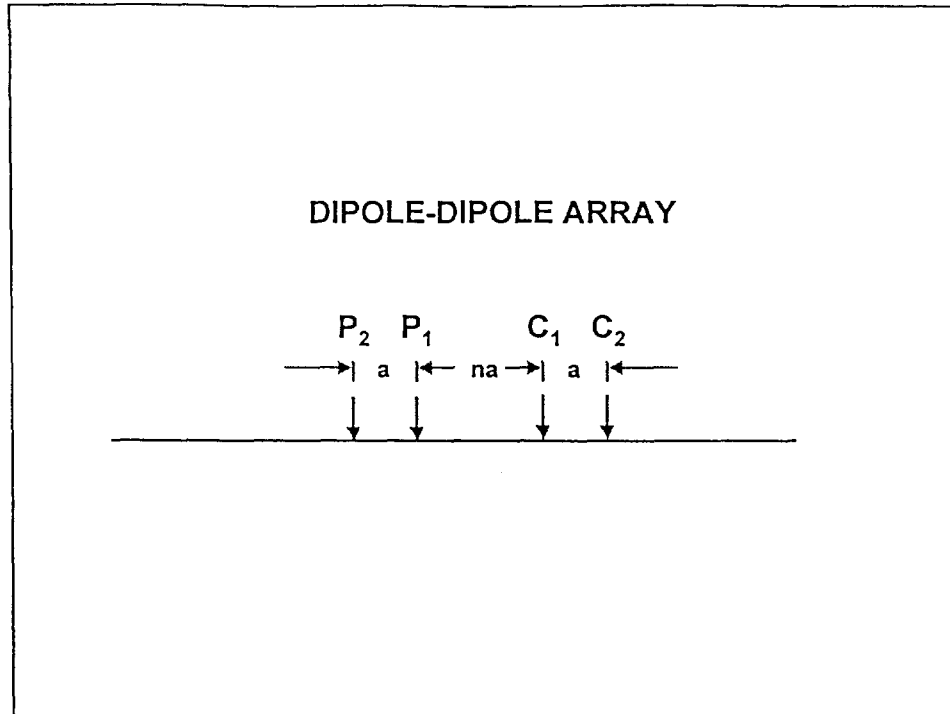
- **Survey Dates:** April 4<sup>TH</sup> to May 8<sup>TH</sup>, 2000
- **Survey Period:** 35 days
- **Survey Days (read time):** 30 days
- **Weather/Standby Days:** 5 days
- **Survey Coverage:** 61.150 km

#### 3.2 PERSONNEL

- **Project Manager:** Kevin Blackshaw, Timmins, ON  
Richard Chasse, Kirkland Lake, ON  
David MacGillivray, Timmins, ON
- **Geophysical Technicians:** Eric Hotvedth, Ramore, ON  
Kyle Hawes, Parry Sound, ON  
Dennis Pressault, Notre Dame du Nord, QC
- **Field Technician:** Leno Thérien, Haileybury, ON.

#### 3.3 SURVEY SPECIFICATIONS

- **Array:** Dipole Dipole (see Fig. 2)
- **Dipole spacing:** 50 metres
- **Rx-Tx Separation:** N = 1 to 6
- **Line Interval:** 200 metres
- **Sampling Interval:** 50 metres
- **Gradient Aerial Coverage:** North grid – approx. 6.0 km<sup>2</sup>  
South grid – approx. 6.0 km<sup>2</sup>



*Figure 2: Dipole - Dipole Array Layout*

**3.4 SURVEY COVERAGE**

- North Grid: 32.000 km (see Table I)
- South Grid: 29.150 km (see Table I)

LINE	MIN EXTENT	MAX EXTENT	TOTAL (m)
North Grid			
2+00E	0+50S	10+00N	1050
4+00E	0+00	10+50N	1050
6+00E	0+50S	10+00N	1050
8+00E	0+00	11+50N	1150
10+00E	0+50S	13+00N	1350
12+00E	0+00	15+50N	1550
14+00E	6+00N	14+50N	850
16+00E	5+00N	15+50N	1050
18+00E	6+00N	15+50N	950
20+00E	6+00N	15+50N	950
22+00E	4+50N	15+00N	1050
24+00E	3+00N	13+50N	1050
26+00E	Not Cut		0
28+00E	6+75S	10+75N	1750
30+00E	8+00S	12+50N	2050
32+00E	8+00S	11+50N	1950
34+00E	9+25S	0+25N	950
34+00E	3+00N	13+50N	1050
36+00E	8+00S	2+00N	1000
36+00E	3+00N	11+50N	850

*Table I: Dipole-Dipole TDIP Survey Coverage*

LINE	MIN EXTENT	MAX EXTENT	TOTAL (m)
38+00E	8+00S	5+50N	1350
40+00E	Was not cut		0
42+00E	12+00S	3+50N	1550
44+00E	13+00S	3+50N	1650
46+00E	12+00S	4+00N	1600
48+00E	9+50S	6+50N	1600
50+00E	8+00S	7+50N	1550
		<b>North Grid Total</b>	<b>32000</b>
<b>South Grid</b>			
0+00E	8+50S	7+50N	1600
2+00E	11+50S	7+00N	1850
4+00E	13+00S	7+00N	2000
6+00E	13+50S	8+00N	2150
8+00E	12+25S	7+75N	2000
10+00E	12+50S	7+00N	1950
12+00E	12+50S	7+00N	1950
14+00E	13+00S	2+00S	1100
16+00E	13+50S	1+00S	1250
18+00E	13+50S	1+50S	1200
20+00E	13+00S	1+00N	1400
22+00E	12+50S	1+00N	1350
24+00E	9+50S	3+00N	1250
26+00E	8+50S	2+50N	1100
28+00E	8+00S	2+00S	600
28+00E	Not chained north	of the pond	0
30+00E	7+50S	1+50S	600
30+00E	0+50S	4+00N	450
31+70E	2+50S	6+00N	850
34+00E	0+50S	7+50N	800
36+00E	3+50S	8+00N	1150
38+00E	4+00S	11+00N	1500
40+00E	0+50N	11+00N	1050
		<b>South Grid Total</b>	<b>29150</b>
		<b>Total Coverage(m)</b>	<b>61150</b>

*Table II: Dipole-Dipole TDIP Survey Coverage*

### 3.5 INSTRUMENTATION

- Receiver: IRIS IP-10 (10 channel / Time Domain)
- Transmitter: Phoenix IPT-1 (3 kW / 75 - 1200V output)
- Power Supply: MG-2 (400 Hz / 110V / 3 phase) + Honda Gx-60 (5.5hp)

### 3.6 PARAMETERS

- Input Waveform: 0.125 Hz square wave at 50% duty cycle (2 seconds On/Off)
- Receiver Sampling Parameters: IRIS IP-10 Cole-Cole (2 sec.) preset windows (see Table II)
- Measured Parameters:
  - 1) Chargeability units are in millivolts per Volt. The Total Chargeability is calculated (internally, within receiver) over the full integration period of 20 to 1850ms (20 time slices).
  - 2) Primary Voltage in millivolts and Input Current in amperes for Resistivity calculation according to the dipole- dipole geometry factor (Appendix B).

Slice	Duration (msec)	Start (msec)	End (msec)	Mid-Point (msec)
T <sub>d</sub>	20	0	20	10
T <sub>1</sub>	20	20	40	30
T <sub>2</sub>	30	40	70	55
T <sub>3</sub>	30	70	100	85
T <sub>4</sub>	30	100	130	115
T <sub>5</sub>	40	130	170	150
T <sub>6</sub>	40	170	210	190
T <sub>7</sub>	50	210	260	235
T <sub>8</sub>	60	260	320	290
T <sub>9</sub>	70	320	390	355
T <sub>10</sub>	80	390	470	430
T <sub>11</sub>	90	470	560	515
T <sub>12</sub>	100	560	660	610
T <sub>13</sub>	110	660	770	715
T <sub>14</sub>	120	770	890	830
T <sub>15</sub>	130	890	1020	955
T <sub>16</sub>	140	1020	1160	1090
T <sub>17</sub>	150	1160	1310	1235
T <sub>18</sub>	160	1310	1470	1390
T <sub>19</sub>	180	1470	1650	1560
T <sub>20</sub>	200	1650	1850	1750
Total T <sub>c</sub>	1850			

*Table III: Iris ELREC 10 Decay Curve Sampling.*

### 3.7 MEASUREMENT ACCURACY AND REPEATABILITY

- Chargeability: generally <math>\pm 0.5</math> mV/V but acceptable to <math>\pm 1.0</math> mV/V.
- Resistivity: less than 5% cumulative error from Primary voltage and Input current measurements.

### 3.8 DATA PRESENTATION

- **Maps:**

Pseudosections:

Stacked posted contoured dipole-dipole sections and profiles ( $a=50 / n=1-6$ ) of the apparent resistivity, total chargeability, metal factor and profiled magnetics (Magnetic data collected by Dan Petrie Exploration, Fall, 1999 - ref. QG112 MMC file) at 1 5000 scale (4 maps).

Plans:

Compiled posted contoured plans at filtered Total Chargeability and Resistivity, plotted at 1:5000 scale (2 maps: north and south grids).

- **Digital:**

Raw data:

IP-10 digital dump file (See Appendix D).

Processed data:


ASCII GEOSOFT .DAT format with files name relating to profile, for example:  
7500.DAT = Line 75+00E using the following format:

Line 1:	Title
Line 2:	Header information, including Line, Array, Dipole, Units.
Line 3:	Column headings
Columns 1-4:	Electrode station positions (metres)
Column 5:	Primary Voltage (milliVolts)
Column 6:	Transmitted Current (amperes)
Column 7:	Spontaneous Potential
Column 8:	Chargeability Windows (msec)

RESPECTFULLY SUBMITTED  
QUANTEC GEOSCIENCE INC.

<sup>DE</sup>  
<sup>per</sup>  
Kevin Blackshaw <sup>KB</sup>  
General Manager

  
Jean M. Legault, P.Eng.  
Dir. Technical Service-QTS

  
David MacGillivray  
Project Manager

Porcupine, ON

APPENDIX A

STATEMENT OF QUALIFICATIONS

I, JEAN M. LEGAULT, DECLARE THAT:

1. I am a consulting geophysicist, with residence in South Porcupine, Ontario, and am presently employed in this capacity with Quantec Geoscience Inc. of Waterdown, Ontario.
2. I obtained a Bachelor's Degree, with Honors, in Applied Science (B.A.Sc.), Geological Engineering (Geophysics Option), from Queen's University at Kingston, Ontario, in spring 1982.
3. I am a registered professional engineer, since 1985, with license to practice in the Province of Ontario (#90534542).
4. I have practiced my profession continuously since May, 1982, in North America, South-America and North Africa.
5. I am a member of the Association of Professional Engineers of Ontario, the Prospectors and Developers Association of Canada, and the Society of Exploration Geophysicists.
6. I have no interest, nor do I expect to receive any interest in the properties or securities of Mustang Minerals Corp.
7. I have reviewed the survey results and logistical report. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.

Porcupine, Ontario  
May, 2000



Jean M. Legault, P.Eng. (ON)  
Chief Geophysicist  
Dir. Technical Services

Quantec Group

DATE	DESCRIPTION
	Setting up
	Survey - Dipole-Dipole
	Total Production
6-Apr-00	Survey - Dipole-Dipole
	Total Production
7-Apr-00	Survey - Dipole-Dipole
	Total Production
8-Apr-00	Survey - Dipole-Dipole
	Total Production
9-Apr-00	Survey - Dipole-Dipole
	Total Production
	Note: chaining error across pond bet
10-Apr-00	Survey - Dipole-Dipole
	Total Production
11-Apr-00	Survey - Dipole-Dipole
	Dump file corrupted, data lost from 10 550m
12-Apr-00	Survey - Dipole-Dipole
	Total Production
	Note: Chaining error, picket 3+00S mis
13-Apr-00	Survey - Dipole-Dipole
	Total Production
14-Apr-00	Survey-Dipole-Dipole
	Total Production
15-Apr-00	Heavy rain, unable to survey Laid cable for line 28e & 30e
	Total Production
16-Apr-00	Survey - Dipole-Dipole
	Total Production
17-Apr-00	Survey - Dipole-Dipole
	Relocated equipment to north east side

LINE	MIN	MAX	TOTAL
18+00E	1350S	150S	1200
16+00E	100S	500S	400
			1600
16+00E	500S	1350S	850
14+00E	1300S	500S	700
			1550
14+00E	6+00S	2+00S	400
12+00E	12+50S	7+00N	1950
			2350
10+00E	12+50S	7+00N	1900
			1550
8+00E	12+25S	7+75S	2000
			2700
6+00E	13+00S	8+00N	2150
			2150
4+00E	13+00S	0+50N	1350
			1350
2+00E	11+50S	7+00N	1850
			1850
20+00E	13+00S	1+00N	1400
24+00E	2+00S	3+00N	200
			1900
24+00E	200S	950S	750
26+00E	850S	250N	1100
			1850
			0
28+00E	2+00S	8+00S	600
30+00E	1+50S	7+50S	600
4+00E	0+50N	7+00N	600
			1850
0+00E	7+50N	8+50N	1600
			1600



DATE	DESCRIPTION	LINE	MIN	MAX	TOTAL
18-Apr-00	Survey - Dipole-Dipole	40+00E	0+50N	11+00N	1050
		38+00E	11+00N	0+50N	1050
	Total Production				2100
19-Apr-00	Survey - Dipole-Dipole				
	Rx dumping failure. Resurveyed, required to have digital data.				
	Total Production				0
20-Apr-00	Survey - Dipole-Dipole	34+00E	7+50N	0+50S	800
	Line 28e was cut between the two ponds, but was not chained.	31+70E	2+50S	6+00N	850
	Only 300m (approx.), not enough for a full array.	30+00E	4+00N	0+50S	450
	Total Production				2100
21-Apr-00	Survey - Dipole-Dipole	36+00E	8+00N	3+50S	1150
		38+00E	4+00S	0+50N	450
	Total Production				1600
22-Apr-00	Survey - Dipole-Dipole				
		22+00E	12+50S	1+00N	1350
	Total Production				1350
	<u>NORTH GRID</u>				
23-Apr-00	Generator is malfunctioning, blew regulator board on the gen.				
24-Apr-00	Survey - Dipole-Dipole				
	Using Androtex tx until a replacement IPT-1 is available.	50+00E	8+00S	7+50N	1550
	Total Production				1550
25-Apr-00	Survey- Dipole-Dipole	48+00E	9+50S	6+50N	1600
	IPT-1 replacement	46+00E	2+00S	12+00S	1000
	Total Production				2600
26-Apr-00	Survey- Dipole-Dipole	44+00E	13+00S	3+50N	1650
		46+00E	4+00N	2+00S	600
	Total Production				2250
27-Apr-00	Survey Dipole-Dipole.	42+00E	12+00S	3+50N	1550
	Total Production				1550
28-Apr-00	Survey-Dipole-Dipole	38+00E	5+50N	8+00S	1350
	L-36E pond at 2+00N	36+00E	8+00S	2+00N	1000
	L-34E pond at 0+25N	34+00E	0+25N	9+25S	950
	Total Production				3300
29-Apr-00	Survey-Dipole-Dipole	32+00E	8+00S	11+50N	1950
		30+00E	12+50N	6+00N	650
	Total Production				2600
30-Apr-00	Survey- Dipole-Dipole	30+00E	6+00N	8+00S	1400
		28+00E	6+75S	3+75N	1050
	Total Production				2450
1-May-00	Weather day-heavy rain. Cleaned and repaired equipment.				0
2-May-00	Survey-Dipole-Dipole	28+00E	3+75N	10+75N	700

DATE	DESCRIPTION	LINE	MIN	MAX	TOTAL
		24+00E	13+50N	3+00N	1050
		22+00E	4+50N	15+00N	1050
	Total Production				2800
3-May-00	Survey-Dipole-Dipole	20+00E	15+50N	6+00N	950
		18+00E	6+00N	15+50N	950
		16+00E	15+50N	5+00N	1050
	Total Production				2950
4-May-00	Survey-Dipole-Dipole	14+00E	6+00N	14+50N	850
		12+00E	15+50N	0+00	1550
		10+00E	50S	6+00N	650
	Total Production				3050
5-May-00	Survey-Dipole-Dipole	10+00E	6+00N	13+00N	700
		8+00E	11+50N	0	1150
		6+00E	50S	10+00N	1050
	Total Production				2900
6-May-00	Survey-Dipole-Dipole	4+00E	10+50N	0	1050
		2+00E	50S	10+00N	1050
	Total Production				2100
7-May-00	Survey-Dipole-Dipole	34+00E	13+50N	3+00N	1050
	North grid is complete, returned equipment to base of operations.	36+00E	3+00N	11+50N	850
	Total Production				1900
8-May-00	Packed equipment and Demob River Valley to Timmins				
	Total Production				61150

APPENDIX C

THEORETICAL BASIS AND SURVEY PROCEDURES

DIPOLE-DIPOLE TDIP

The collected data sets are reduced, using the Geosoft<sup>TM</sup> program IPRED<sup>TM</sup>, to apparent resistivity, total chargeability and metal factor as explained in the following figures and equations: Using the following diagram (Fig. C1) for the electrode configuration and nomenclature:<sup>2</sup>

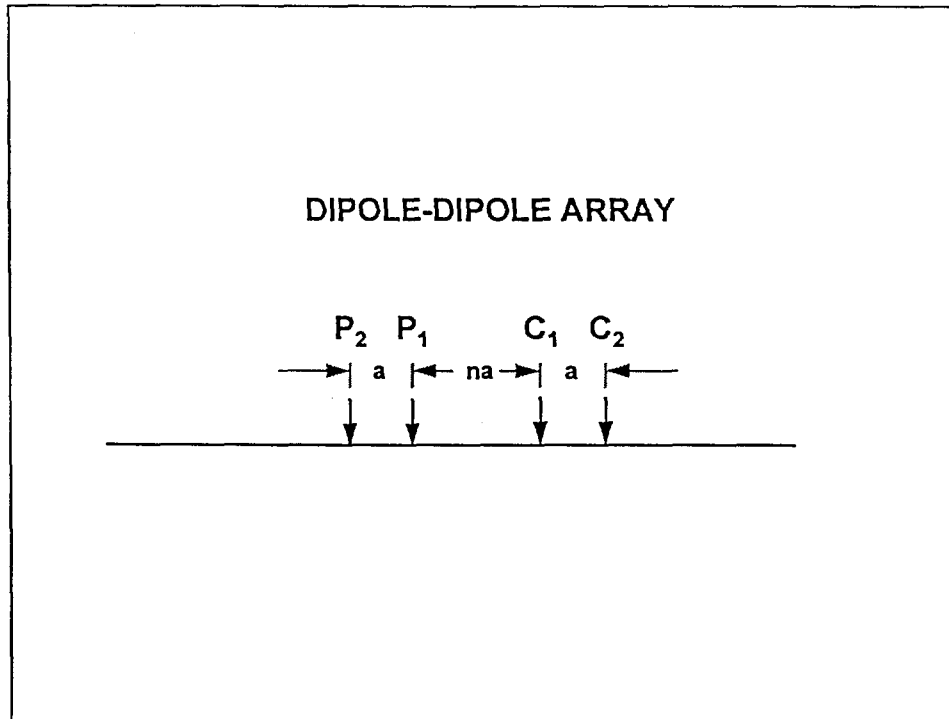


Figure C1: Dipole-Dipole Electrode Array

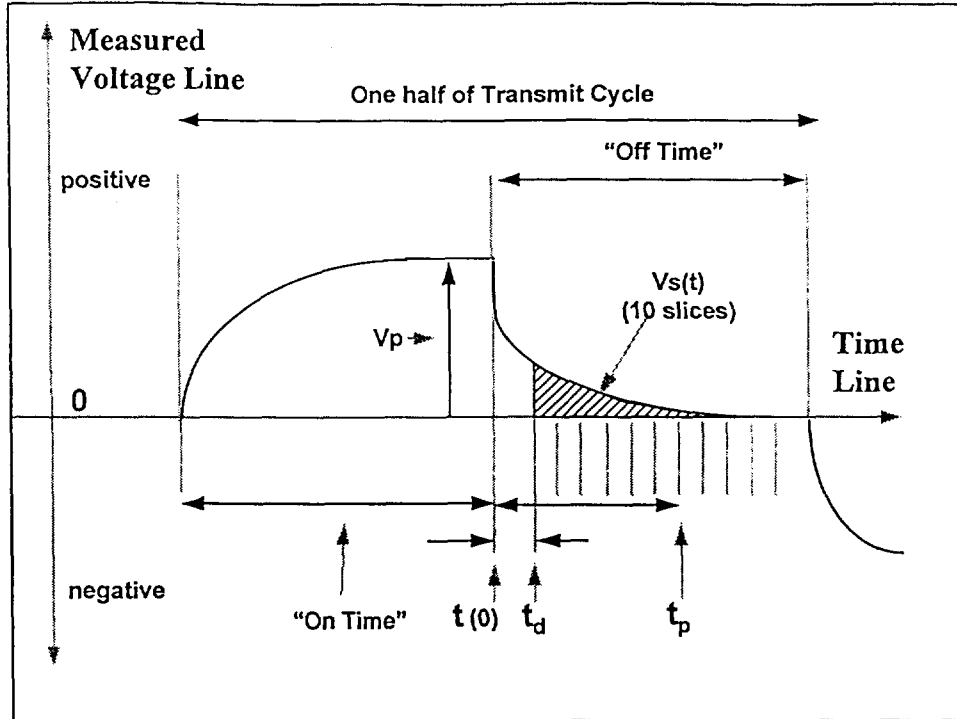
the apparent resistivity is given by:

$$\rho a = \pi n(n+1)(n+2)a \times \frac{VP}{I} \text{ ohm-metres}$$

where: "a" is the MN dipole spacing (metres)  
"n" is the separation parameter between C<sub>1</sub>C<sub>2</sub> and P<sub>1</sub>P<sub>2</sub>  
"V<sub>P</sub>" is the primary voltage measured between P<sub>1</sub>P<sub>2</sub> (volts)  
"I" is the output current between C<sub>1</sub>C<sub>2</sub> (amperes)

<sup>2</sup> From Telford, et al., Applied Geophysics, Cambridge U Press, New York, 1983..

Using the following diagram (Figure C2) for the Total Chargeability:<sup>3</sup>



**Figure C2: Measurement of the IP Effect in the Time-Domain**

The total chargeability:<sup>4</sup> is given by:

$$M_{\text{Total}} = \frac{1}{V_p} \sum_{i=1}^{10} \int_{t_i}^{t_{i+1}} V_s(t) dt \quad \text{millivolt-seconds per volt}$$

where  $t_j, t_{j+1}$  are the beginning and ending times for each of the chargeability slices.

The sets are then ready for plotting, profiling using the Geosoft Sushi<sup>TM</sup> program. The Apparent Resistivity, total Chargeability and Metal Factor results of the dipole-dipole surveys are presented in pseudo section format. All resistivities are in  $\Omega$ -metres and the chargeabilities in mV/V.

<sup>3</sup> From Terraplus\BRGM, IP-6 Operating Manual, Toronto, 1987

<sup>4</sup> From Telford, et al., Applied Geophysics, Cambridge U Press, New York, 1983..

**APPENDIX D**

**INSTRUMENT SPECIFICATIONS**

**PHOENIX IP TRANSMITTER MODEL IPT-1**

<b>Power Sources:</b>	Phoenix MG-3 (2.5KVA, 60V, 3 phase, 400 Hz) motor generator
<b>Output Voltage:</b>	75 to 1200V in 5 steps. 75 - 150 - 300 - 600 - 1200V Voltage is continuously variable $\pm 20\%$ from each nominal step value.
<b>Output Power:</b>	Maximum continuous output power is 2.5KW.
<b>Maximum Current:</b>	10 Amps
<b>Ammeter Ranges:</b>	50m A, 100m A, 500mA, 1A, 3A, and 10A full scale.
<b>Meter Display:</b>	A meter function switch selects the display of current level, regulation status, input frequency, output voltage, line voltage
<b>Current regulation:</b>	The change in output current is less than 0.2% for a 10% change in input voltage or electrode impedance. Regulation is achieved by feedback to the alternator of the motor generator unit.
<b>Output waveform:</b>	Either DC, single frequency, two frequencies simultaneously, or time domain (50% duty cycle). Frequencies of 0.078, 0.156, 0.313, 1.25, 2.5 and 5.0 Hz are standard, whereas 0.062, 0.125, 0.25, 1.0, 2.0 and 4.0 Hz are optionally available. The simultaneous transmission mode has 0.313 and 5.0 Hz as standard, whereas 0.156 and 2.5 Hz are optional.
<b>Operating Temperature:</b>	-40°C to +60°C
<b>Frequency Stability:</b>	$\pm 1\%$ from -40°C to +60°C is standard. A precision time base is optionally available for coherent detection and phase IP measurements.
<b>Transient Protection:</b>	Current is turned off automatically if it exceeds 150% full scale or is less than 5% full scale.
<b>Dimensions:</b>	18cm x 40cm x 53cm
<b>Weight:</b>	4 kg

**APPENDIX D**

**INSTRUMENT SPECIFICATIONS:**

**Iris ELREC 10 Receiver**

(From Iris ELREC 10 Operating Manual)

**Weather proof case**

<b>Dimensions:</b>	31.0 cm x 21.0 cm x 25.0 cm
<b>Weight:</b>	9.0 kg (with internal battery)
<b>Operating temperature:</b>	-30°C to 70°C
<b>Storage:</b>	(-30°C to 50°C)
<b>Power supply:</b>	1 x 12.0 V external battery (30 hr. @ 20°C) or 2 x 6.0 V NiCad rechargeable (20 hr. @ 25°C) or 10
<b>Input channels:</b>	10 Mohm
<b>Input impedance:</b>	up to 1000 volts
<b>Input over voltage protection:</b>	10 V maximum on each dipole 15 V maximum sum over ch. 1 to 10
<b>Input voltage range:</b>	Automatic $\pm 15$ V with linear drift correction
<b>SP compensation:</b>	100 dB common mode rejection (for $R_s = 0$ ) automatic stacking
<b>Noise rejection:</b>	1 $\mu$ V after stacking
<b>Primary voltage resolution:</b>	0.3% typically; maximum 1 over whole temperature range
<b>accuracy:</b>	up to 20 windows; preset window specs for Cole- Cole parameter analysis.
<b>Secondary voltage windows:</b>	10 ms
<b>Sampling rate:</b>	10 ms, minimum 40 $\mu$ V
<b>Synchronization accuracy:</b>	0.1 mV/V
<b>Chargeability resolution:</b>	typically 0.6%. maximum 2% of reading $\pm 1$ mV/V for $V_p > 10$ mV
<b>accuracy:</b>	manual and automatic before each measurement
<b>Battery test:</b>	0.1 to 100 kohm
<b>Grounding resistance:</b>	3200 records, 1 dipole/record
<b>Memory capacity:</b>	serial link @ 300 to 19200 baud
<b>Data transfer:</b>	

APPENDIX D

IRIS ELREC 10 DUMP FILE FORMAT:

Channel: 1 Date: 12/15/1998 08:59:25  
Spacing (foot): XP : 13500 li.P: 20400 D : 50 XA : 12900 XB : 16400 I.AB: 20400  
Rs: 1.61 kohm

M1/5	M6/10	M11/15	M16/20
70.93	31.57	20.10	12.63
50.69	28.69	18.34	11.44
43.96	26.19	16.71	10.32
38.95	24.00	15.25	9.23
34.93	21.99	13.89	8.21

Sp: -2.05 mV  
In: 1400.00 mA Rho: 6645.39 ohm.m #: 20  
Vp: 652.204 mV Mg: 16.81 mV/V Q: 0.04 mV/V  
Tau: 4.560 s Mcc: 199.87 mV/V rms: 0.25 %

Channel: 2 Date: 12/15/1998 08:59:25  
Spacing (foot): XP : 13550 li.P: 20400 D : 50 XA : 12900 XB : 16400 I.AB: 20400  
Rs: 2.54 kohm

M1/5	M6/10	M11/15	M16/20
69.98	31.53	20.15	12.70
50.36	28.68	18.39	11.52
43.75	26.20	16.78	10.39
38.82	24.03	15.32	9.31
34.86	22.03	13.96	8.28

Sp: -67.15 mV  
In: 1400.00 mA Rho: 6504.35 ohm.m #: 20  
Vp: 552.303 mV Mg: 16.85 mV/V Q: 0.05 mV/V  
Tau: 5.378 s Mcc: 199.85 mV/V rms: 0.28 %

**INTERPRETATION ADDENDUM TO**  
**GEOPHYSICAL SURVEY LOGISTICAL REPORT**  
**MUSTANG MINERALS CORP., TORONTO, ON**  
**RIVER VALLEY PROJECT, CRERAR, DANA, McWILLIAMS TWPS., ON**  
**DIPOLE-DIPOLE TDIP INDUCED POLARIZATION SURVEYS**  
**QUANTEC GEOSCIENCE INC., PORCUPINE, ON**  
**SURVEY DATE: APRIL-MAY, 2000**

by:

G. R. Jeff Warne  
Kevin Blackhaw  
David Eastcott  
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**INTRODUCTION**

Prepared at the request of **Mustang Minerals Corporation**, the following interpretation summarizes the results of ground geophysical surveys over the **River Valley Project**, obtained during April-May 2000 by Quantec Geoscience Inc. The surveys consisted of Dipole-Dipole (dpdp) array, time domain induced polarization (TDiP) and resistivity. The survey objectives were to define and delineate favourable signatures associated with contact-type magmatic, PGM-bearing sulphide mineralization. The objective of the survey was to determine the margins and floor of the River Valley intrusion that occurs on the property. The Dipole-Dipole array was chosen based on its high resolution characteristics of shallow targets within a thin overburden environment.

**4. RESULTS AND INTERPRETATION..... 2**  
**4.1 GEOLOGIC OVERVIEW..... 2**  
**4.2 GEOPHYSICAL RESULTS AND INTERPRETATION..... 2**  
**5. CONCLUSION AND RECOMMENDATIONS..... 4**

**APPENDIX A: STATEMENTS OF QUALIFICATION**  
**APPENDIX B: THEORETICAL BASIS**  
**APPENDIX C: PRIORITY EXPLORATION TARGETS**  
**APPENDIX D: ROCK SAMPLE PHYSICAL PROPERTIES**  
**APPENDIX E: LIST OF MAPS**  
**APPENDIX F: MAPS AND SECTIONS**



## RESULTS AND INTERPRETATION

The IP/Resistivity surveys at **River Valley** were designed to detect and delineate, at a semi-detailed scale, signatures associated with contact-type magmatic PGM-bearing sulphide mineralization at investigation depths from surface to 100 metres. The survey consisted of 61.15 line kilometers of TDIP/Resistivity coverage over the favourable contact margin of the River Valley intrusive complex, using the dipole-dipole array, with a dipole spacing of 50 meters, measuring  $n=1-6$  dipole separations. The coverage was divided roughly equally over two grids, the South Grid, located in Crerar Township, and the North Grid, located approximately six kilometers to the northeast, straddling the boundary between Dana and McWilliams townships. The survey results have been interpreted with the primary objective of selecting targets for follow up exploration. In addition, Quantec conducted measurements of the physical properties on a suite of 8 rock samples from the River Valley Property in December, 1999, the results of which are included in Appendix D.

Mustang Minerals conducted total field magnetic surveys in the fall of 1999, the results of which were provided to the authors. Profiles of the total magnetic field, corresponding to the IP/Resistivity survey line coverage, have been plotted on the IP/Resistivity pseudo section maps, and have been utilized to assist in target definition and prioritization. Base maps showing the location of grid lines, topographic features, claim locations and the interpreted location of the favourable intrusive contacts were also provided by Mustang Minerals.

### 4.1 Geologic Overview

The **River Valley** property is variably overlain by thin glacio-lacustrine overburden, and exhibits low but locally rugged topographic relief with up to 25 m elevation changes. It is generally forest covered with areas of swamp and outcrop. Geologic mapping compiled by Geodigital Mapping Systems on behalf of Mustang Minerals, indicates that the survey areas are underlain by ultramafic intrusive rocks, of the River Valley Complex, in contact with syenitic to granitic rocks to the northeast (North Grid), and gneissic meta-sediments to the south (South Grid). Platinum Group Metals (PGM) mineralization is favourably hosted within the ultramafic intrusive rocks of the **River Valley Complex**, proximal to the intrusive contact margin and is associated with siliceous alteration and low percentage concentrations of metallic sulphides (personal communication K. Lapierre, P. Wood, Mustang Minerals). The geophysical property contrasts defining the target model were theorized to be moderately increased chargeability, due to the low percentage concentrations of metallic sulphides, increased resistivity due to silicification, and reduction in magnetic susceptibility due to magnetite destruction related to the alteration/mineralization process.

### 4.2 Geophysical Results and Interpretation

#### 4.2.1 Results of Rock Sample Physical Property Analysis

The objective of the Rock Sample Physical Property Analysis was to quantify the intrinsic physical properties representative of the variety of lithology, alteration and mineralization within the area of exploration interest and to establish the physical property contrasts which discriminate mineralization of interest from their host geologic environment.

The results of physical property measurements conducted on samples from the **River Valley Property** are presented in Appendix D. The physical properties which were quantified included Magnetic Susceptibility, Density, Resistivity and Chargeability. Magnetic susceptibilities ranged from low ( $<100$  SI units) to high ( $>1,000$  SI units). Densities were moderate (between  $2.5$  to  $3.0$   $\text{g/cm}^3$ ) to high (between  $3.0$  to  $4.0$   $\text{g/cm}^3$ ). The measured resistivities were high, with a range of  $1,000$  to  $10,000$   $\Omega\text{-m}$  while the chargeabilities ranged from very weak ( $<5$   $\text{mV/V}$ ) to strong ( $>40$   $\text{mV/V}$ ).

Of the samples evaluated, numbered 1 to 8, samples 1 and 2 represented samples known to host anomalous PGM mineralization (personal communication K. Lapierre, P. Wood, Mustang Minerals), while the remaining samples were typical of the rock types underlying the **River Valley Property**. While extremely limited in scope due to the small number of samples, the results served to confirm basic concepts for the target model regarding the physical property contrasts anticipated for different rock types and mineralization underlying the property as follows:

- Ultramafic River Valley Complex intrusive rocks (3 samples): Characterized by high magnetic susceptibility, high density and strong chargeability with resistivities moderate within the range of the samples.
- Gneissic Metasedimentary country rocks (2 samples): Characterized by low magnetic susceptibility, moderate density and very weak chargeability, with resistivities low to moderate within the sample range.
- PGM Mineralized Ultramafic intrusive rocks (2 samples): Characterized by moderate magnetic susceptibility, moderate density, weak to moderate chargeability with resistivities high within the range of the samples.
- Diabase dyke rock (1 sample): moderate to high magnetic susceptibility, moderate density, very weak chargeability, with moderate resistivity.

The classifications assigned above are based purely upon the physical properties measurements, with the exception of those containing PGM mineralization. Geologic classification and description of the samples were not available to the authors.

#### 4.2.2 Results of Dipole-Dipole IP/Resistivity Surveys

A total of **45 first priority** geophysical targets are identified on the property; **28 on the North grid** and **17 on the South grid**. In addition, a further 58 second priority targets, along with 14 third priority targets have been identified on the North Grid, while on the South grid there are 46 second priority and 17 third priority targets.

The IP/Resistivity responses measured at the **River Valley Property** range from very weak (<5 mV/V) to strong (up to 30 mV/V) chargeability and moderate (< 1,000 Ω-m) to very high (> 10,000 Ω-m) resistivity. The resistivities are similar on both the North and South grids, though the range is higher for the north grid by as much as a factor of 2. There are few zones of strong chargeabilities within the south grid while significant areas of strong chargeability occur within the north grid. In both survey areas, resistivity signatures associated with zones of increased chargeability include high, low and contact type resistivity signatures. At the south grid, zones of moderate to strong chargeability generally occur associated with zones of greater magnetic relief. While this association also occurs in the north grid, there is in addition a distinct region where moderate to strong chargeabilities occur in conjunction with lower total magnetic field magnitude and relief.

Plan maps of filtered apparent chargeability and resistivity are presented superimposed upon the provided base maps. The filter applied to yield the plotted values was an industry standard triangular spatial filter, based on the pseudosection plotting convention for measurements acquired using the dipole-dipole array. For this application the filter was designed to emphasize shallow contact type anomalies.

The pseudosection maps presenting the results of the surveys have been thoroughly examined to identify the location and magnitude of zones of increased chargeability, and identify the resistivity signature (high or low or contact type) associated with each chargeable zone. These are identified on the pseudosection maps accompanying the report, utilizing the symbols defined on the map legends. The resistivity classifications are based primarily on the local resistivity signatures which correlate with each defined chargeable zone as opposed to the absolute resistivity magnitude. Charge-

able zones which have a corresponding resistivity contact type signature have not been assigned a corresponding resistivity symbol designation.

## 5. CONCLUSION AND RECOMMENDATIONS

The IP/Resistivity results at the **River Valley Property** have, as predicted by physical property analysis of rock samples, identified zones of weak to strong chargeability, which frequently correspond with variably moderate to high total field magnetic response, consistent with the exploration model for the host-target characteristics. The chargeable zones are variably associated with high, low or contact type resistivity signatures. Many of these chargeable zones occur proximal to the interpreted favourable contact margin of the River Valley intrusive and are thus of great interest for further exploration to determine if the mineralized zones host PGM mineralization. In addition, moderate to strong chargeable zones of variable resistivity character, located within a region of lower total field magnetic response, in both magnitude and relief, have been delineated over the North grid. Located in the central area of the grid the region occurs within granitic country rocks proximal to the River Valley intrusive contact, as it is presently interpreted. While the magnetic character of the region is consistent with rocks of felsic composition, further exploration of the region to validate the location of the contact is recommended. Regardless, these represent highly interesting exploration targets, though as yet uncharacterized by the exploration model being applied.

Targets recommended for further exploration, tabulated in Appendix C, have been selected from the chargeability anomalous zones identified on the pseudosection maps. These have been prioritized on the basis of the resistivity and magnetic signatures associated with the anomalous zones, and their proximity to the favourable contact margin. Higher priority has been given to anomalous zones with characteristics as follows:

- Locally reduced magnetic signature within regions of generally higher magnetic response and, to a lesser extent, magnetic contacts.
- Locally increased resistivity or equally resistivity contacts
- Proximity to the favourable intrusive contact

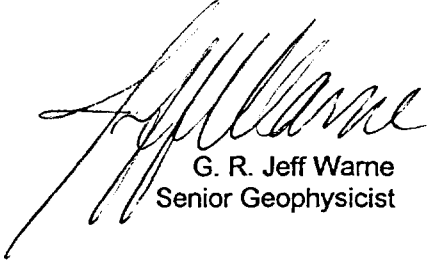
The strength of IP anomalies is considered less important than the favourable combined geophysical fingerprint. Zones of greater potential depth extent, as discernable from the geophysical signatures, are also considered higher priority.

Further exploration evaluation of these geophysical targets is strongly recommended. However, while the relatively large number of targets may be potentially encouraging, it may also indicate that the geophysical character of the exploration target is not highly distinctive within the host environment. We therefore recommend:

- further prioritization of the selected targets on the basis of integrated exploration data
- further quantification of the physical properties through borehole physical property logging, which may define a more definitive geophysical fingerprint of the exploration target and
- compilation of all exploration data for the property in a common database/interpretation platform to allow integrated, ongoing iterative interpretation of exploration results to most efficiently evaluate the property.

Respectfully Submitted  
QUANTEC GEOSCIENCE INC.

Kevin Blackshaw  
General Manager - Timmins



G. R. Jeff Warne  
Senior Geophysicist



David Eastcott  
Technical Services -Timmins

Porcupine, ON

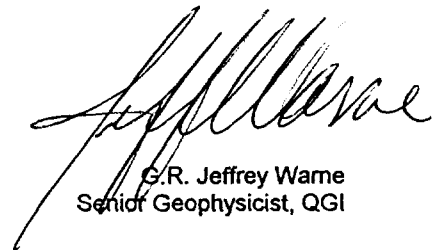
**APPENDIX A**

**Statement of Qualifications**

I, G.R. Jeffrey Wame, hereby declare that:

1. I am a geophysicist with residence in South Porcupine, Ontario and am presently employed in this capacity with Quantec Geoscience Ltd. of Waterdown, Ontario.
2. I studied Engineering Geophysics in the Faculty of Applied Science at Queen's University in Kingston, Ontario, completing all but two of the course requirements for a B.Sc.(Eng.) in 1981.
3. I have practiced my profession continuously since May, 1981 in Canada, the United States, Mexico, Argentina, Australia and Chile.
4. I am a member of the Association of Geoscientists of Ontario and the Porcupine Prospectors and Developers Association.
5. I have no interest, nor do I expect to receive any interest in the properties or securities of Mustang Minerals Corp.
6. I interpreted the survey data, selected the exploration targets, prepared the text of the report and supervised the preparation of the maps. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.

Porcupine  
June, 2000



G.R. Jeffrey Wame  
Senior Geophysicist, QGI

**APPENDIX A**

**Statement of Qualifications**

I, Kevin Blackshaw, declare that:

1. I am a geophysicist, with residence in Timmins, Ontario, and am currently employed by Quantec Geoscience Inc. of Waterdown, Ontario, as General Manager of the Canadian operational office, in Porcupine, ON.
2. I graduated from Cambrian College in Sudbury, Ontario with a Geological Engineering Technology diploma in 1983.
3. I have continuously been employed in this field since graduation.
4. I have no interest nor do I expect to receive any interest in the properties or securities of **Mustang Minerals Corp.**
5. I was the project manager and was responsible for the data acquisition, validation and plotting in the field. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.

Porcupine, Ontario  
June, 2000

Kevin Blackshaw  
General Manager, Timmins

APPENDIX A

**Statement of Qualifications**

I, David Eastcott, hereby declare that:

1. I am a staff geophysical operator with residence in Porcupine, Ontario and am presently employed in this capacity with Quantec Geoscience Ltd. of Porcupine, Ontario.
2. I have practiced my profession continuously since January of 1996.
3. I have no interest nor do I expect to receive any interest, direct or indirect, in the properties or securities of **Mustang Minerals Corp.**
4. I am the project manager for the survey, and am responsible for the data acquisition and validation of the survey results. I am the technical writer of the report and am responsible for the compilation and final map creation. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.

Porcupine, Ontario  
June, 2000



David Eastcott.  
Project Manager  
Quantec Geoscience Inc.

## APPENDIX E

### Theoretical Basis

#### INDUCED POLARIZATION SURVEY

The resistivity is among the most variable of all geophysical parameters, with a range exceeding  $10^6$ . Because most minerals are fundamentally insulators, with the exception of massive accumulations of metallic and submetallic ores (electronic conductors) which are rare occurrences, the resistivity of rocks depends primarily on their porosity, permeability and particularly the salinity of fluids contained (ionic conduction), according to Archie's Law. In contrast, the chargeability responds to the presence of polarizable minerals (metals, submetallic sulphides and oxides, and graphite), in amounts as minute as parts per hundred. Both the quantity of individual chargeable grains present and their distribution with in subsurface current flow paths are significant in controlling the level of response. The relationship of chargeability to metallic content is straightforward, and the influence of mineral distribution can be understood in geologic terms by considering two similar, hypothetical volumes of rock in which fractures constitute the primary current flow paths. In one, sulphides occur predominantly along fracture surfaces. In the second, the same volume percent of sulphides are disseminated throughout the rock. The second example will, in general, have significantly lower intrinsic chargeability.



**APPENDIX C**

**North Grid Priority Exploration Targets**

#	LINE	STN MIN	STN MAX	CHARACTER	RESISITIVITY	MAGNETIC	PRIORITY	COMMENTS
1	2+00E	100	150	Weak Chargeability	Weakly Resistive	Low	2	Possible diss. sulphides along contact. Likely subcropping, weaker at depth
2	2+00E	150	300	Weak Chargeability	Weakly Resistive	Moderate	3	Magnetite rich
3	2+00E	450	550	Weak Chargeability	Weakly Resistive	Low	3	
4	2+00E	650	700	Weak Chargeability	Weakly Resistive	Low	2	Possible diss. sulphides along contact
5	4+00E	450	500	Weak Chargeability	Weakly Resistive	Moderate	3	
6	4+00E	550	650	Moderate Chargeability	Weakly Conductive	Low	2	Possible diss. sulphides along contact
7	4+00E	850	900	Moderate Chargeability	Weakly Resistive	Low	2	Possible diss. sulphides along contact
8	6+00E	200	250	Weak Chargeability		Low	2	
9	6+00E	500	550	Moderate Chargeability	Weakly Resistive	Low	2	Possible diss. sulphides along contact
10	6+00E	700	750	Weak Chargeability	Highly Resistive	Low	2	Possible diss. sulphides along contact
11	8+00E	300	350	Weak Chargeability	Weakly Resistive	Low	3	
12	8+00E	350	400	Weak Chargeability	Weakly Resistive	Moderate	2	
13	8+00E	450	500	Moderate Chargeability	Moderately Resistive	Low	1	Possible diss. sulphides along contact
14	10+00E	400	500	Weak Chargeability		Low	2	
15	10+00E	600	700	Moderate Chargeability	Weakly Conductive	Low	2	Stronger at depth
16	12+00E	250	300	Weak Chargeability	Moderately Resistive	Low	2	
17	12+00E	400	500	Moderate Chargeability		Low	2	
18	12+00E	650	700	High Chargeability		Low	2	
19	12+00E	850	950	Moderate Chargeability		Low	2	Possible diss. sulphides along contact
20	12+00E	1300	1350	Weak Chargeability		Low	2	
21	14+00E	700	800	Weak Chargeability	Weakly Resistive	Low	2	Possible diss. sulphides along contact
22	14+00E	950	1050	Weak Chargeability		Low	2	
23	16+00E	700	800	Weak Chargeability		Low	2	
24	16+00E	950	1000	Weak Chargeability		Moderate	2	Possible diss. sulphides along contact
25	16+00E	1000	1050	Moderate Chargeability		Low	1	
26	16+00E	1050	1150	Weak Charge-		Low	2	

#	LINE	STN MIN	STN MAX	CHARACTER	RESISITIVITY	MAGNETIC	PRIORITY	COMMENTS
27	16+00E	1300	1400	ability Moderate Chargeability	Weakly Resistive	Low	1	
28	18+00E	950	1050	Weak Chargeability		Low	3	
29	18+00E	1100	1250	Weak Chargeability		Low	2	
30	18+00E	1300	1400	Weak Chargeability		Low	2	
31	20+00E	1050	1200	Weak Chargeability		Low	2	Possible diss. sulphides along contact
32	20+00E	1200	1350	Weak Chargeability		Low	2	
33	22+00E	550	600	Weak Chargeability		Low	2	
34	22+00E	700	850	Weak Chargeability		Low	2	Possible diss. sulphides along contact
35	22+00E	1000	1050	Weak Chargeability		High	3	
36	22+00E	1150	1300	Weak Chargeability		Low	2	Possible diss. sulphides along contact
37	24+00E	800	950	Weak Chargeability		Moderate	3	Possible diss. sulphides along contact
38	28+00E	175	225	Weak Chargeability		High/low	1	Possible diss. sulphides along contact
39	28+00E	525	625	High Chargeability	Weakly Conductive	Low	2	
40	28+00E	725	775	Weak Chargeability	Weakly Resistive	Low/high	2	
41	30+00E	-700	-600	Weak Chargeability		No data	2	Possible diss. sulphides along contact
42	30+00E	-450	-350	Weak Chargeability		No data	2	
43	30+00E	-300	-200	Weak Chargeability	Weakly Resistive	No data	1	
44	30+00E	-150	-100	Weak Chargeability	Weakly Resistive	No data	1	
45	30+00E	-100	0	High Chargeability		No data	1	Possible diss. sulphides along contact
46	30+00E	250	350	Weak Chargeability		Moderate/low	1	
47	30+00E	350	400	Moderate Chargeability	Weakly Resistive	Low	1	Possible diss. sulphides along contact
48	30+00E	400	500	High Chargeability	Weakly Conductive	Moderate	2	
49	30+00E	500	550	Weak Chargeability	Weakly Resistive	Low	1	
50	30+00E	550	600	Weak Chargeability		High	2	
51	30+00E	650	700	Moderate Chargeability		Low	2	
52	30+00E	700	750	Weak Chargeability		Low	2	
53	30+00E	750	800	Weak Chargeability		Moderate	3	Possible diss. sulphides along contact
54	30+00E	850	900	Weak Chargeability		Moderate	3	
55	32+00E	-350	-250	Weak Chargeability	Weakly Conductive	Moderate	2	
56	32+00E	0	50	Weak Charge-	Weakly Conduc-	Very low	1	

#	LINE	STN MIN	STN MAX	CHARACTER	RESISITIVITY	MAGNETIC	PRIORITY	COMMENTS
57	32+00E	150	250	ability Moderate Chargeability	tive Mod Conduc- tive/Low Res	Low	1	Possible diss. sulphides along contact
58	32+00E	250	300	High Chargeabil- ity	Weakly Resistive	Low	3	
59	32+00E	450	550	High Chargeabil- ity	Weakly Conduc- tive	Low	2	
60	32+00E	550	650	Moderate Chargeability		Low	1	
61	32+00E	800	850	Weak Charge- ability	Weakly Resistive	Low	2	
62	34+00E	-575	-525	Weak Charge- ability		High/low	1	
63	34+00E	-525	-425	Moderate Chargeability	Weakly Resistive	Low	2	Possible diss. sulphides along contact
64	34+00E	-325	-275	Weak Charge- ability		Moderate	2	
65	34+00E	-175	-75	Moderate Chargeability		Moderate	2	Possible diss. sulphides along contact
66	34+00E	-75	-50	Weak Charge- ability		Low	1	
67	34+00E	450	500	Weak Charge- ability	Weakly Conduc- tive	Low	2	
68	34+00E	1000	1050	Weak Charge- ability	Weakly Resistive	Low	2	
69	34+00E	1150	1200	Weak Charge- ability		Low	2	Possible diss. sulphides along contact
70	36+00E	-600	-550	Weak Charge- ability	Moderately Re- sistive	Moderate	1	Possible diss. sulphides along contact
71	36+00E	-550	-450	Moderate Chargeability		Moderate	1	
72	36+00E	-300	-200	Moderate Chargeability	Weakly Conduc- tive	High/moderat e	2	
73	36+00E	-250	-200	Moderately Chargeability	Contact	Low	1	
74	36+00E	-150	-100	Weak Charge- ability		Moderate	2	
75	36+00E	0	50	Weak Charge- ability		High/low	1	
76	38+00E	-700	-650	Weak Charge- ability		Low/moderat e	2	
77	38+00E	-600	-550	Weak Charge- ability		Moderate	2	
78	38+00E	-450	-400	Weak Charge- ability		Moderate	2	Possible diss. Sulphides along contact
79	38+00E	-300	-150	Moderately Re- sistive	Mod Conduc- tive/Low Res	Moderate	2	
80	38+00E	-100	0	Moderate Chargeability	Weakly Resistive	High	2	Possible diss. Sulphides along contact
81	38+00E	50	150	Weak Charge- ability	Moderately Re- sistive	Low	3	
82	38+00E	200	250	Weak Charge- ability	Moderately Re- sistive	Low	3	
83	42+00E	-400	-350	Weak Charge- ability	Mod Conduc- tive/Low Res	Low	2	
84	44+00E	-1050	-950	Weak Charge- ability		No data	3	
85	44+00E	-550	-500	Weak Charge- ability	Weakly Resistive	High/low	2	
86	44+00E	-300	-250	Weak Charge- ability	Weakly Resistive	Low	2	
87	44+00E	-200	-100	Moderate	Moderately Re-	Low	2	

South Grid Priority Exploration Targets

#	LINE	STN MIN	STN MAX	CHARACTER	RESISITIVITY	MAGNETIC	PRIORITY	COMMENTS
1	0+00E	-650	-550	Moderate Chargeability	Contact	Low	1	Near surface to ~ 50 m depth
2	0+00E	-300	-250	Moderate Chargeability	Contact	Low	2	near surface to ~ 20 m depth.
3	0+00E	100	150	Weak Chargeability	Contact	Low	1	Possible diss. Sulphides ~ 20 to 50 m depth
4	0+00E	350	450	Moderate Chargeability	Highly Resistive	Low	3	Possible diss. Sulphides best target potential may be 50-70 m depth.
5	2+00E	-850	-750	Moderate Chargeability	Contact	nil	2	At/near surface to ~30 m depth
6	2+00E	-600	-550	Moderate Chargeability	Weakly Resistive	Low	2	At near surface to ~ 50 m depth
7	2+00E	-350	-300	Weak Chargeability	Weakly Resistive	Low	3	Near surface to ~ 30 m depth
8	2+00E	100	150	Weak Chargeability	Contact	Low	2	Near surface to ~ 70 m depth
9	2+00E	250	300	Weak Chargeability	Highly Resistive	Low	3	
10	2+00E	500	550	Moderate Chargeability	Highly Resistive	Low	2	
11	4+00E	-950	-850	Moderate Chargeability	Contact	Low	3	
12	4+00E	-650	-600	Weak Chargeability	Mod Conductive/Low Res	Low	3	
13	4+00E	0	100	Moderate Chargeability	Highly Resistive	Moderate/high	2	
14	6+00E	-50	0	Moderate Chargeability		Moderate/high	2	
15	6+00E	150	200	Weak Chargeability		Low	1	
16	6+00E	300	350	Weak Chargeability		Moderate	2	
17	6+00E	650	700	Weak Chargeability		Low	2	
18	8+00E	-975	-925	Moderate Chargeability		Low	2	
19	8+00E	275	325	Moderate Chargeability	Weakly Conductive	High/moderate	2	
20	8+00E	325	425	Weak Chargeability	Highly Resistive	High/moderate	2	
21	8+00E	625	675	Moderate Chargeability	Moderately Resistive	Low/high	2	
22	10+00E	-900	-850	Moderate Chargeability		Low	2	
23	10+00E	-50	0	Weak Chargeability		Low/moderate	2	
24	10+00E	50	100	Moderate Chargeability	Moderately Resistive	Low	2	
25	10+00E	450	500	Moderate Chargeability	Moderately Resistive	Moderate/high	2	
26	12+00E	-600	-550	Weak Chargeability		Low	2	
27	12+00E	-500	-450	Weak Chargeability	Mod Conductive/Low Res	Low	3	
28	12+00E	150	200	Moderate Chargeability	Moderately Resistive	Moderate	3	
29	12+00E	300	350	Moderate Chargeability	Mod Conductive/Low Res	Low	2	
30	12+00E	450	500	Moderate Chargeability		Low/high	2	
31	14+00E	-1000	-950	Moderate Chargeability		Low	3	
32	16+00E	-1150	-1100	Weak Chargeability		Low	3	

#	LINE	STN MIN	STN MAX	CHARACTER	RESISITIVITY	MAGNETIC	PRIORITY	COMMENTS
33	16+00E	-1050	-1000	Moderate Chargeability	Mod Conductive/Low Res	Low	2	
34	18+00E	-1050	-1000	Weak Chargeability	Weakly Resistive	Low	2	
35	18+00E	-950	-900	Moderate Chargeability	Weakly Resistive	Low	2	
36	18+00E	-850	-800	Moderate Chargeability	Mod Conductive/Low Res	Low	2	
37	18+00E	-700	-650	Weak Chargeability	Moderately Resistive	Low/moderate	1	
38	18+00E	-500	-450	Moderate Chargeability		Moderate	2	
39	18+00E	-450	-350	High Chargeability	Weakly Resistive	High	3	
40	20+00E	-1100	-1050	Weak Chargeability	Moderately Resistive	Low	2	
41	20+00E	-1000	-950	Weak Chargeability	Weakly Resistive	Low	2	
42	20+00E	-900	-850	Moderate Chargeability		Low	2	
43	20+00E	-850	-800	High Chargeability	Mod Conductive/Low Res	Low	3	
44	20+00E	-550	-500	Weak Chargeability	Weakly Resistive	Low/moderate	2	
45	22+00E	-950	-900	Moderate Chargeability		Low	2	
46	22+00E	-750	-700	Moderate Chargeability		Moderate	1	
47	22+00E	-650	-550	Weak Chargeability		Moderate/low	1	
48	24+00E	-750	-700	Weak Chargeability		Low	3	
49	24+00E	-600	-550	Moderate Chargeability		Low	2	
50	24+00E	-500	-450	Moderate Chargeability	Mod Conductive/Low Res	Low	2	
51	24+00E	-450	-400	Moderate Chargeability	Weakly Resistive	Low	1	
52	24+00E	-400	-350	Moderate Chargeability	Mod Conductive/Low Res	Low/moderate	1	
53	24+00E	-250	-200	Weak Chargeability		Low	2	
54	26+00E	-650	-600	Weak Chargeability		Moderate	1	
55	26+00E	-550	-500	Weak Chargeability		Moderate	1	
56	26+00E	-350	-300	Weak Chargeability	Weakly Conductive	Low	1	
57	26+00E	-200	-150	Moderate Chargeability	Weakly Resistive	Moderate/low	1	
58	26+00E	-100	-50	Weak Chargeability		Low	2	
59	28+00E	-550	-500	Weak Chargeability		Low	2	
60	28+00E	-450	-400	Moderate Chargeability	Weakly Resistive	Low	1	
61	30+00E	-675	-550	Weak Chargeability		Low	3	
62	30+00E	-450	-400	Weak Chargeability	Weakly Resistive	Low	2	
63	30+00E	-300	-200	Weak Chargeability	Moderately Resistive	Low	2	
64	30+00E	25	100	Weak Chargeability		Low	3	
65	32+00E	-100	-50	Weak Chargeability		Moderate/low	2	
66	32+00E	450	500	Weak Charge-	Moderately Re-	Low	1	

#	LINE	STN MIN	STN MAX	CHARACTER	RESISITIVITY	MAGNETIC	PRIORITY	COMMENTS
67	34+00E	50	100	ability Moderate Chargeability	sistive	Moderate/low	1	
68	34+00E	150	200	Weak Charge- ability		Low	2	
69	36+00E	-150	-100	Weak Charge- ability		Low	2	
70	36+00E	0	50	Weak Charge- ability		Low	2	
71	36+00E	100	150	Weak Charge- ability		Low	2	
72	38+00E	-300	-250	Weak Charge- ability		Low	3	
73	38+00E	-250	-200	Weak Charge- ability		Low	3	
74	38+00E	0	50	Moderate Chargeability	Weakly Conduc- tive	Low	2	
75	38+00E	100	150	High Chargeabil- ity	Weakly Resistive	Low	1	
76	38+00E	250	300	Weak Charge- ability	Mod Conduc- tive/Low Res	Low	3	
77	38+00E	450	500	Weak Charge- ability	Moderately Re- sistive	Low	3	
78	38+00E	850	900	Weak Charge- ability	Mod Conduc- tive/Low Res	Moderate/low	2	
79	40+00E	50	100	Weak Charge- ability		Low/moderat e	1	
80	40+00E	100	150	Weak Charge- ability		Moderate/low	2	
81	40+00E	200	250	Weak Charge- ability		Low	3	

**APPENDIX D**

**Rock Sample Physical Property Analysis**

PHYSICAL PROPERTY TEST MEASUREMENTS FOR GEODIGITAL MAPPING SYSTEMS INC.

ROCK SAMPLES FROM RIVER VALLEY PROPERTY

No	Sample mark	Mag. Susceptibility X10 <sup>4</sup> SI Units	Density Kg/m <sup>3</sup>	Resistivity Ohm.m	IP Chargeability (mV/V)										
					M <sub>Total</sub>	M <sub>1</sub>	M <sub>2</sub>	M <sub>3</sub>	M <sub>4</sub>	M <sub>5</sub>	M <sub>6</sub>	M <sub>7</sub>	M <sub>8</sub>	M <sub>9</sub>	M <sub>10</sub>
1	DSZ	130 - 140	2,990	8,140	17.5	37.05	34.18	31.87	29.94	26.01	21.54	18.52	15.43	12.62	10.70
2	T-1	120 - 750	2,880	9,130	8.42	19.52	17.81	16.45	15.32	13.07	10.55	8.88	7.22	5.74	4.75
3	7761	5,700 - 12,700	3,310	4,060	31.36	69.4	63.92	59.46	55.73	48.08	39.30	33.35	27.27	21.78	18.04
4	56864	< 100	2,860	4,040	2.56	6.44	5.80	5.30	4.89	4.09	3.21	2.66	2.14	1.68	1.37
5	56875	< 100	2,970	2,130	4.86	11.6	10.60	9.75	9.05	7.66	6.12	5.12	4.12	3.25	2.67
6	56913	2,260 - 4,650	3,310	6,220	21.74	46.69	43.16	40.27	37.83	32.82	27.06	23.17	19.08	15.39	12.87
7	57467	630 - 6,280	2,870	6,180	1.82	4.46	4.04	3.70	3.43	2.89	2.30	1.92	1.54	1.21	1.00
8	57468	2,510 - 16,300	3,020	7,740	42.05	86.67	80.94	76.21	72.17	63.53	52.47	44.54	36.93	30.14	25.49

JANUARY 5, 2000

Prof.Dr. PERPARIM ALIKAJ



**APPENDIX E**

**List of Maps**

- **Plan Maps at scale of 1:5000**

DESCRIPTION	DRAWING NUMBER
1. <u>North Grid</u> : Posted/Contoured Filtered Total Chargeability	QG-112-PLAN-CHG-NORTH1
2. <u>South Grid</u> : Posted/Contoured Filtered Total Chargeability	QG-112-PLAN-CHG-SOUTH1
3. <u>North Grid</u> : Posted/Contoured Filtered Total Resistivity	QG-112-PLAN-CHG-NORTH1
4. <u>South Grid</u> : Posted/Contoured Filtered Total Resistivity	QG-112-PLAN-CHG-SOUTH1
<b>TOTAL PLANS</b>	<b>4</b>

- **Posted/contoured Profiled Pseudosections at a scale of 1:5000**

LINE	Drawing Number
<b>NORTH GRID</b>	
2+00E	QG-112-IP-DD-LINE 2+00E
4+00E	QG-112-IP-DD-LINE 4+00E
6+00E	QG-112-IP-DD-LINE 6+00E
8+00E	QG-112-IP-DD-LINE 8+00E
10+00E	QG-112-IP-DD-LINE 10+00E
12+00E	QG-112-IP-DD-LINE 12+00E
14+00E	QG-112-IP-DD-LINE 14+00E
16+00E	QG-112-IP-DD-LINE 16+00E
18+00E	QG-112-IP-DD-LINE 18+00E
20+00E	QG-112-IP-DD-LINE 20+00E
22+00E	QG-112-IP-DD-LINE 22+00E
24+00E	QG-112-IP-DD-LINE 24+00E
28+00E	QG-112-IP-DD-LINE 28+00E
30+00E	QG-112-IP-DD-LINE 30+00E
32+00E	QG-112-IP-DD-LINE 32+00E
34+00E	QG-112-IP-DD-LINE 34+00E
36+00E	QG-112-IP-DD-LINE 36+00E
38+00E	QG-112-IP-DD-LINE 38+00E
42+00E	QG-112-IP-DD-LINE 42+00E
44+00E	QG-112-IP-DD-LINE 44+00E
46+00E	QG-112-IP-DD-LINE 46+00E
48+00E	QG-112-IP-DD-LINE 48+00E
50+00E	QG-112-IP-DD-LINE 50+00E
<b>TOTAL</b>	<b>23</b>
<b>SOUTH GRID</b>	
0+00E	QG-112-IP-DD-LINE 0+00E
2+00E	QG-112-IP-DD-LINE 2+00E
4+00E	QG-112-IP-DD-LINE 4+00E
6+00E	QG-112-IP-DD-LINE 6+00E
8+00E	QG-112-IP-DD-LINE 8+00E
<b>LINE</b>	<b>Drawing Number</b>
10+00E	QG-112-IP-DD-LINE 10+00E

12+00E	QG-112-IP-DD-LINE 12+00E
14+00E	QG-112-IP-DD-LINE 14+00E
16+00E	QG-112-IP-DD-LINE 16+00E
18+00E	QG-112-IP-DD-LINE 18+00E
20+00E	QG-112-IP-DD-LINE 20+00E
22+00E	QG-112-IP-DD-LINE 22+00E
24+00E	QG-112-IP-DD-LINE 24+00E
26+00E	QG-112-IP-DD-LINE 26+00E
28+00E	QG-112-IP-DD-LINE 28+00E
30+00E	QG-112-IP-DD-LINE 30+00E
32+00E	QG-112-IP-DD-LINE 32+00E
34+00E	QG-112-IP-DD-LINE 34+00E
36+00E	QG-112-IP-DD-LINE 36+00E
38+00E	QG-112-IP-DD-LINE 38+00E
40+00E	QG-112-IP-DD-LINE 40+00E
<b>TOTAL</b>	<b>21</b>
<b>TOTAL SECTIONS</b>	<b>44</b>

**TOTAL PLANS= 4**  
**TOTAL PSEUDOSECTIONS= 44**

**APPENDIX F**

**Maps and Sections**



Ministry of  
Northern Development  
and Mines

# Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use)  
W0070.00122  
Assessment Files Research Imaging



41I09NE2010 2.20381 MCWILLIAMS 900

if subsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, assessment work and correspond with the mining land holder. Questions about this Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury.

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

2.20381

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

Name <u>Mustang Minerals</u>	Client Number <u>303851</u>
Address <u>1351 E Kelly Lake Rd. Unit 8</u>	Telephone Number <u>705 523 8220</u>
<u>Sudbury, On 3P2 5P5</u>	Fax Number <u>705 523-1194</u>
Name	Client Number
Address	Telephone Number
	Fax Number

RECEIVED  
2:55pm  
JUN 20 2000

2. Type of work performed: Check (✓) and report of 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 <u>Induced Polarization Survey</u>	Office Use
	Commodity
	Total \$ Value of Work Claimed <u>64,984</u>
Dates Work Performed From <u>4 04 00</u> To <u>8 05 00</u>	NTS Reference
Global Positioning System Data (if available)	Mining Division <u>Sudbury</u>
Township/Area <u>Creer, McWilliams</u>	Resident Geologist District <u>Sudbury</u>
M or G-Plan Number	

- 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 <u>Quantec GeoScience Inc</u>	Telephone Number <u>705 235-2165</u>
Address <u>PO Box 580, 101 Kings St. Porcupine, Ont P0N 1C0</u>	Fax Number <u>705 235 2755</u>
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

4. Certification by Recorded Holder or Agent

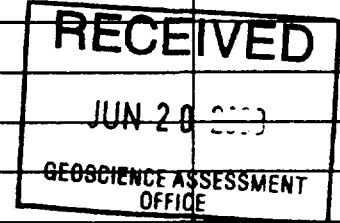
I, Ken Lapierre, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <u>Ken Lapierre</u>	Date <u>June 19/00</u>
Agent's Address <u>PO Box 11433 Timmins, On P4N 1Z2</u>	Telephone Number <u>705 268 8850</u>
	Fax Number <u>(705) 523-1194</u>

5. 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.

W0070.00122

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 1214638.	15	6500	6000	500	
2 1229152.	12	6500	4800	1700	
3 1229153.	15	6900	6000	500	
4 1229154.	15	6500	492	6008	
5 1229155.	16	6492	6400	92	
6 1228800.	12		5200		
7 1237522	1		400		
8 1231260	6		2400		
9 1231181	1	<del>4000</del>	400		
10 1237507	1		400		2,253,81
11 1214609.	4	1600	1600		
12 1214610.	4	1600	1600		
13 1214771.	12	4800	4800		
14 1214772.	4	1600	1600		
15 1214773.	6	2400	2400		
Column Totals					



I, \_\_\_\_\_, 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 \_\_\_\_\_ Date \_\_\_\_\_

6. Instruction 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	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

5. 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.

W0070. 00122

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 12295230	4	1600	1600		
2 12295260	16	3700	3700		
3 12295270	8	10392	<del>32000</del> 6400	<del>7192</del> 7192	3992
4 1231119.	4	1600	1600		
5 12312530	8	3200	3200		
6 1230564	6	-	2400		
7 1231262	10	-	4000		
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		64984	60,992	<del>6400</del> 15,200	3992

**RECEIVED**  
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 GEOSCIENCE ASSESSMENT  
 OFFICE

I, Ken Lapierre (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: [Signature] Date: June 19/00

6. Instruction 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	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

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 <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
Induced Polarization + report	61.15 km	1,018.55/km	62,284.33
Supervision	4 days	350/day	1,400.00
<b>Associated Costs (e.g. supplies, mobilization and demobilization).</b>			
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <b>RECEIVED</b>                  JUN 20 2000                  GEOSCIENCE ASSESSMENT OFFICE             </div>			
<b>Transportation Costs</b>			
	truck rental	1000/month	1,000.00
<b>Food and Lodging Costs</b>			
	\$ 75/day room/board	4 days	300.00
<b>Total Value of Assessment Work</b>			<b>64,984.33</b>

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

Signature 	Date June 19/00
---------------	--------------------

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

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

July 11, 2000

MUSTANG MINERALS CORP.  
1351 E. KELLY LAKE RD. UNIT 8  
SUDBURY, ONTARIO  
P3E-5P5

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm)

Dear Sir or Madam:

**Submission Number:** 2.20381

**Status**

**Subject: Transaction Number(s):** W0070.00122 Approval

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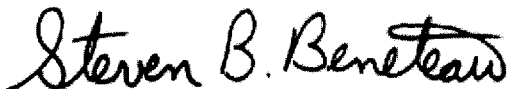
We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

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. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

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

If you have any questions regarding this correspondence, please contact BRUCE GATES by e-mail at [bruce.gates@ndm.gov.on.ca](mailto:bruce.gates@ndm.gov.on.ca) or by telephone at (705) 670-5856.

Yours sincerely,



ORIGINAL SIGNED BY  
Steve B. Beneteau  
Acting Supervisor, Geoscience Assessment Office  
Mining Lands Section



# Work Report Assessment Results

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**Submission Number:** 2.20381

**Date Correspondence Sent:** July 11, 2000

**Assessor:** BRUCE GATES

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<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W0070.00122	1214638	CRERAR, MCWILLIAMS	Approval	July 11, 2000

**Section:**

14 Geophysical IP

**Correspondence to:**

Resident Geologist  
Sudbury, ON

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

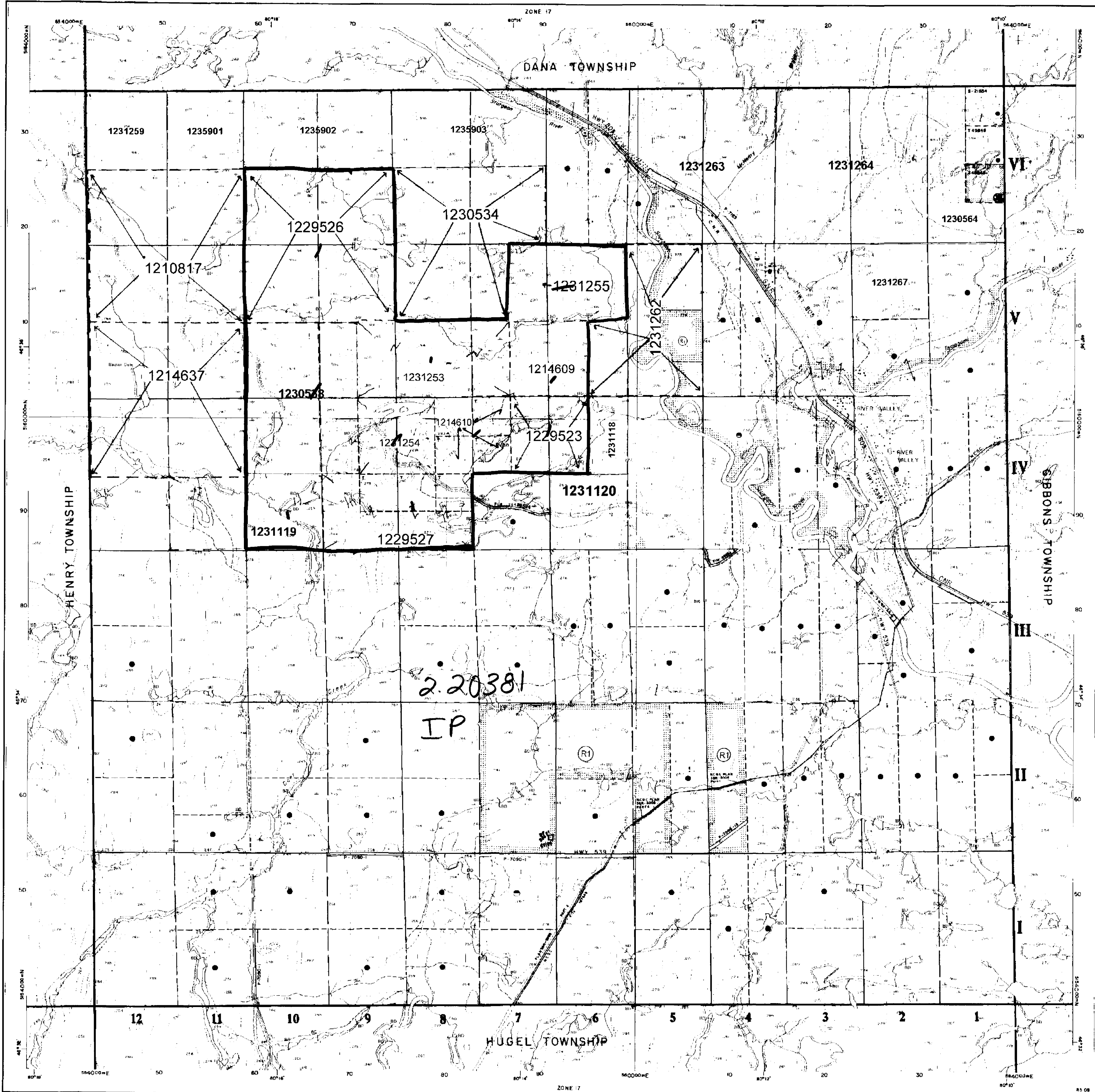
Ken Lapierre  
TIMMINS, ONT, CANADA

Assessment Files Library  
Sudbury, ON

MUSTANG MINERALS CORP.  
SUDBURY, ONTARIO

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C-5303



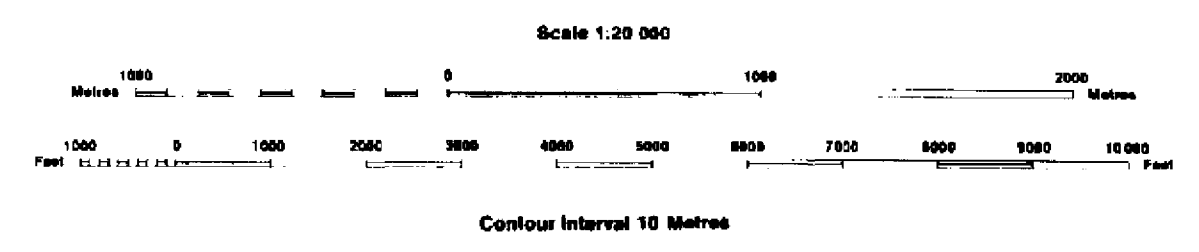
January 1986

**INDEX TO LAND DISPOSITION**

PLAN  
 G-2903  
 TOWNSHIP

M.N.R. ADMINISTRATIVE DISTRICT  
**NORTH BAY**  
 MINING DIVISION  
**SUDBURY**  
 LAND TITLES/REGISTRY DIVISION  
**NIPISSING**

**CRERAR**



**AREAS WITHDRAWN FROM DISPOSITION**

M.R.O. - MINING RIGHTS ONLY  
 S.R.O. - SURFACE RIGHTS ONLY  
 M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
(R1) Reforestation		13/10/89	S.R.	160707 Vol 2
(R4) SEC 36/80	W. 8/81	9/12/81	S.R.	160707

\*Set of order W 8/81 RECEIVED BY MAIL  
 C.M. CLARK REC effective April 3, 1980 at 7:00 AM E.S.T.

**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	—

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

**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	⊕
LAND USE PERMIT	⊛

**JUNE 1ST, OPENINGS**

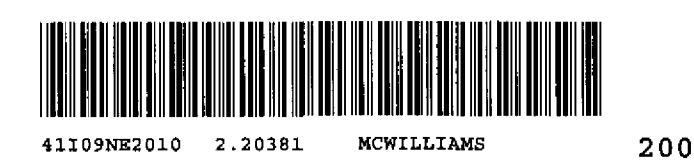
ONTARIO GAZETTE VOL.122-18  
 MAY 6, 1989  
 W. 1/2 OF N 1/2 LOT 7 CON.4  
 NW 1/4 OF N 1/2 LOT 8 CON.4  
 S 1/2 OF N 1/2 LOT 8 CON.4  
 N 1/2 OF S 1/2 LOT 8 CON.4  
 SW 1/4 OF S 1/2 LOT 8 CON.4  
 SE 1/4 OF N 1/2 LOT 8 CON.4  
 E 1/2 OF S 1/2 LOT 8 CON.4

**JUNE 1, 1986 OPENINGS**

T 49848

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

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

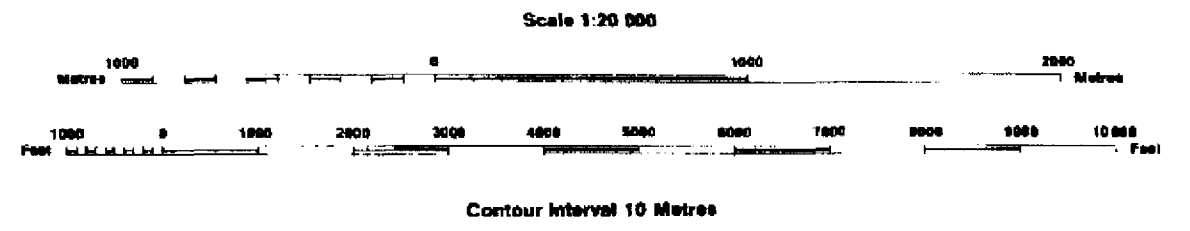


**INDEX TO LAND DISPOSITION**

PLAN  
G-2910  
TOWNSHIP

**McWILLIAMS**

M.N.R. ADMINISTRATIVE DISTRICT  
**NORTH BAY**  
MINING DIVISION  
**SUDBURY**  
LAND TITLES/REGISTRY DIVISION  
**NIPISSING**



**REFERENCES**

**AREAS WITHDRAWN FROM DISPOSITION**  
M.R.O. - MINING RIGHTS ONLY  
S.R.O. - SURFACE RIGHTS ONLY  
M+S. - MINING AND SURFACE RIGHTS

**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	—

Description	Order No.	Date	Disposition	File
W-LL-C-182289	3-2-89/89	09/09/89	M & S	1105/89
W-LL-C-182289	3-2-89/89	09/09/89	M & S	1105/89

Part of order W-LL-C-182289 cancelled by order D-88. 02/00 MNR effective April 1, 1990 at 1:00 AM E.S.T.

Sec. 35 W-LL-C-182289 ONT 11/05/89 M & S

Sec. 35 W-LL-P-138/89 ONT MAY 11/89 M&S (200 METERS FROM WATERS EDGE)

**NOTES**

SUBDIVISION OF THIS TOWNSHIP INTO LOTS AND CONCESSIONS WAS ANNULLED 6 DECEMBER, 1983

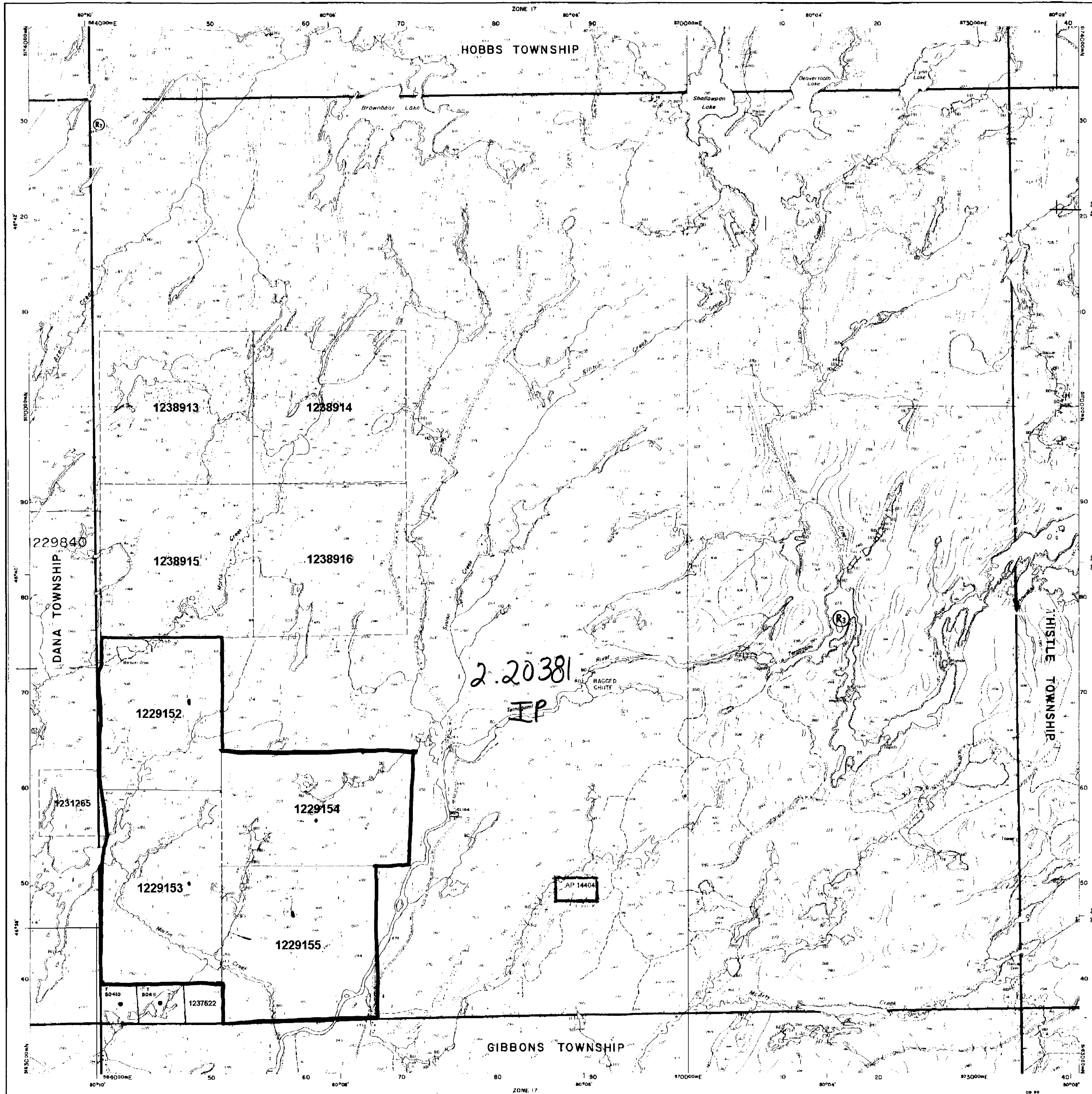
**DISPOSITION OF CROWN LANDS**

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	DC
Cancelled	⊗
Reservation	⊙
Sand & Gravel	⊕
LAND USE PERMIT	⊛

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

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

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

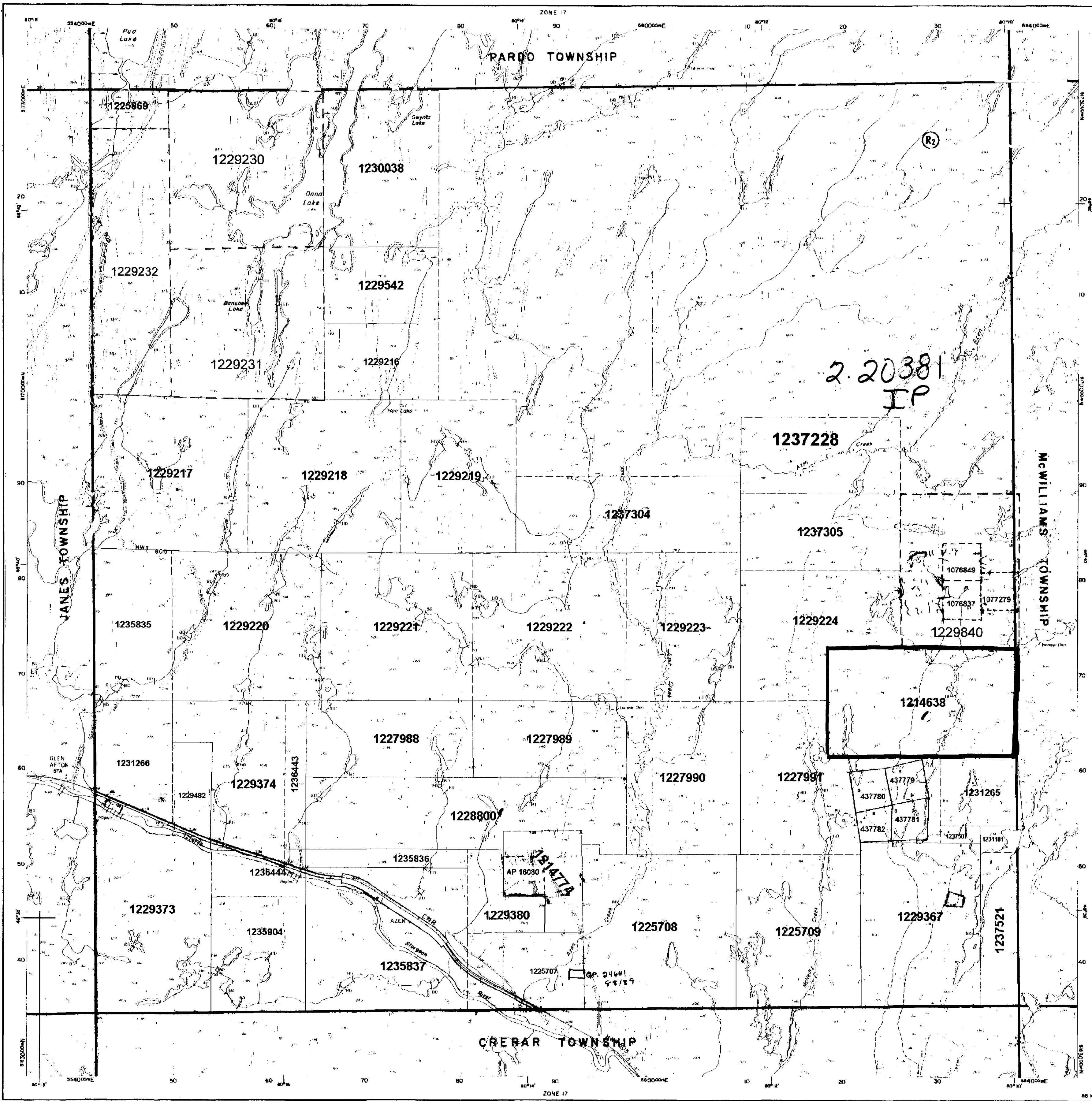
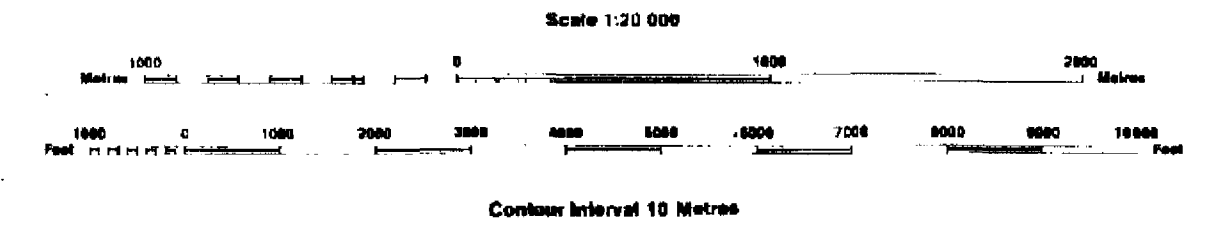




**INDEX TO LAND DISPOSITION**

PLAN  
G-2904  
TOWNSHIP  
**DANA**

M.N.R. ADMINISTRATIVE DISTRICT  
**NORTH BAY**  
MINING DIVISION  
**SUDBURY**  
LAND TITLES/REGISTRY DIVISION  
**NIPISSING**



**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

**AREAS WITHDRAWN FROM DISPOSITION**

M.R.O. - MINING RIGHTS ONLY  
S.R.O. - SURFACE RIGHTS ONLY  
M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC 35/50	D-3-99/98	05/05/98	M & S	1888

Part of order W 5186 RESCINDED by order  
D-46. 03/30/98 effective April 2/98 at 7:00 AM E.S.T.

Sec. 35 W.L.L.-C18299 ONT 11/05/99 M & S

A.P. 18080 JUNE 1/98 TO MAY 31/98

**NOTES**

SUBDIVISION OF THIS TOWNSHIP INTO LOTS AND CONCESSIONS WAS ANNULLED.

**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
- Cancelled
- Reservation
- Sand & Gravel
- LAND USE PERMIT

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



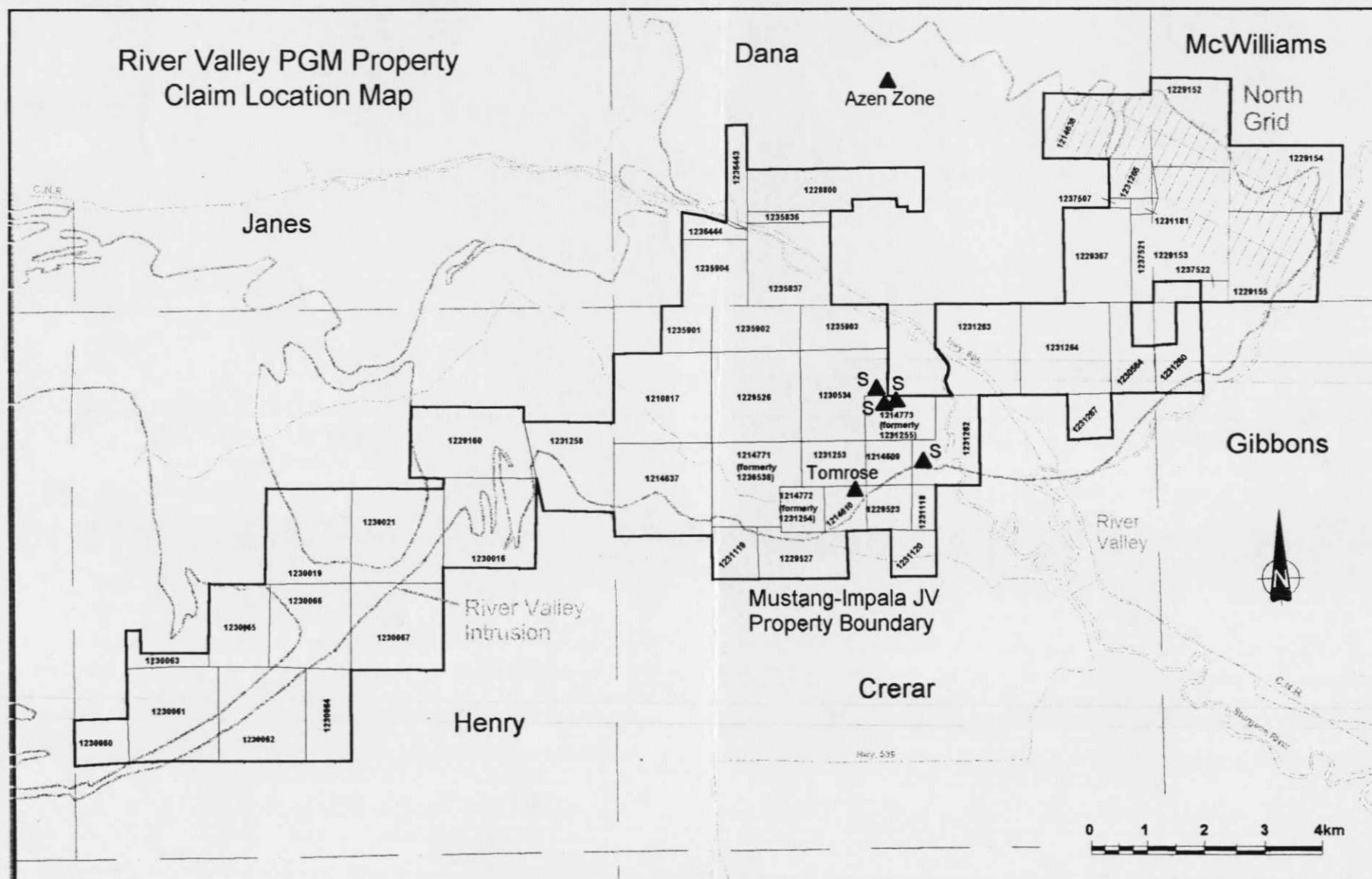


RIVER VALLEY PGM PROPERTY - FILTERED APPARENT RESISTIVITY (ohm-m)



SYMBOLS

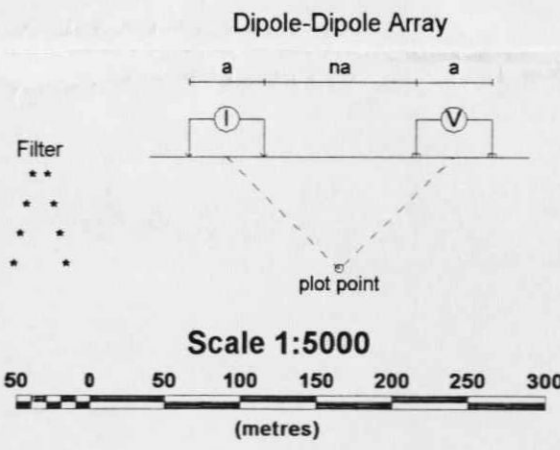
- Outcrop, outcrop area; small outcrop
- Magnetic susceptibility
- Gneissosity
- Contact as interpreted by Mustang Minerals (defined, inferred)
- Fault as interpreted by Mustang Minerals (geophysically inferred)
- Positive topographic feature
- Claim post (located, inferred)
- Claim line
- Swamp
- Pond with Beaver dam
- Road
- Trail
- Creek
- Clear cut



Geodigital Mapping Systems Inc.  
Toronto, Ontario, Canada  
(705) 267-7128



230



2.20381

**MUSTANG MINERALS CORP.**  
**RIVER VALLEY PGM PROPERTY**  
 North Grid, McWilliams & Dana Twps., ON  
 TIME DOMAIN IP SURVEY  
 DIPOLE - DIPOLE ARRAY (a=50m n=1-6)  
 FILTERED APPARENT RESISTIVITY

Transmitter Frequency: 0.125 Hz (500 duty cycle)  
 Transmitter Current: 0.1 to 1.0 Amps  
 Decay Curve: QP IP-10 Core-Core Windows  
 20 Gates (20 to 180ms)  
 Station Interval: 80 metres  
 Gridding Method: Bi-Directional  
 Grid Cell Size: 25 units (2x Manning Filter Applied)  
 Contour Interval: 10 levels/log decade  
 Colour Scale: Equal Area Zoning

Survey Date: April, 2000  
 Instrumentation: Rx = RES (RIGID IP-10) Tx = Phoenix IPT-1  
 DWS # 05-113-PLAN-RES-1

Surveyed & Processed by: **Quantic**  
 SERVICES WORLDWIDE

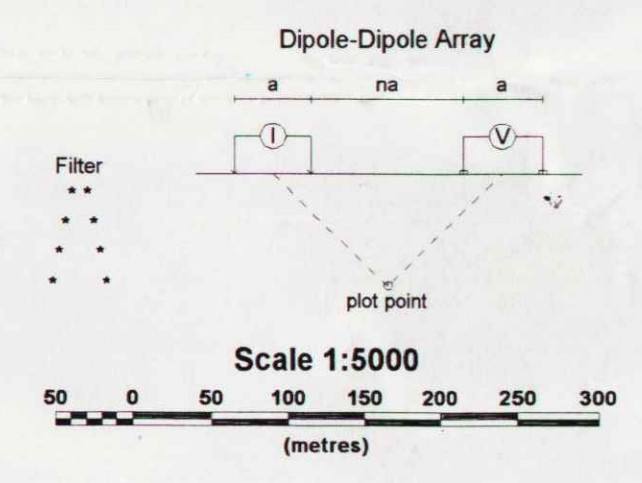


RIVER VALLEY PGM PROPERTY - FILTERED TOTAL CHARGEABILITY (mV/V)

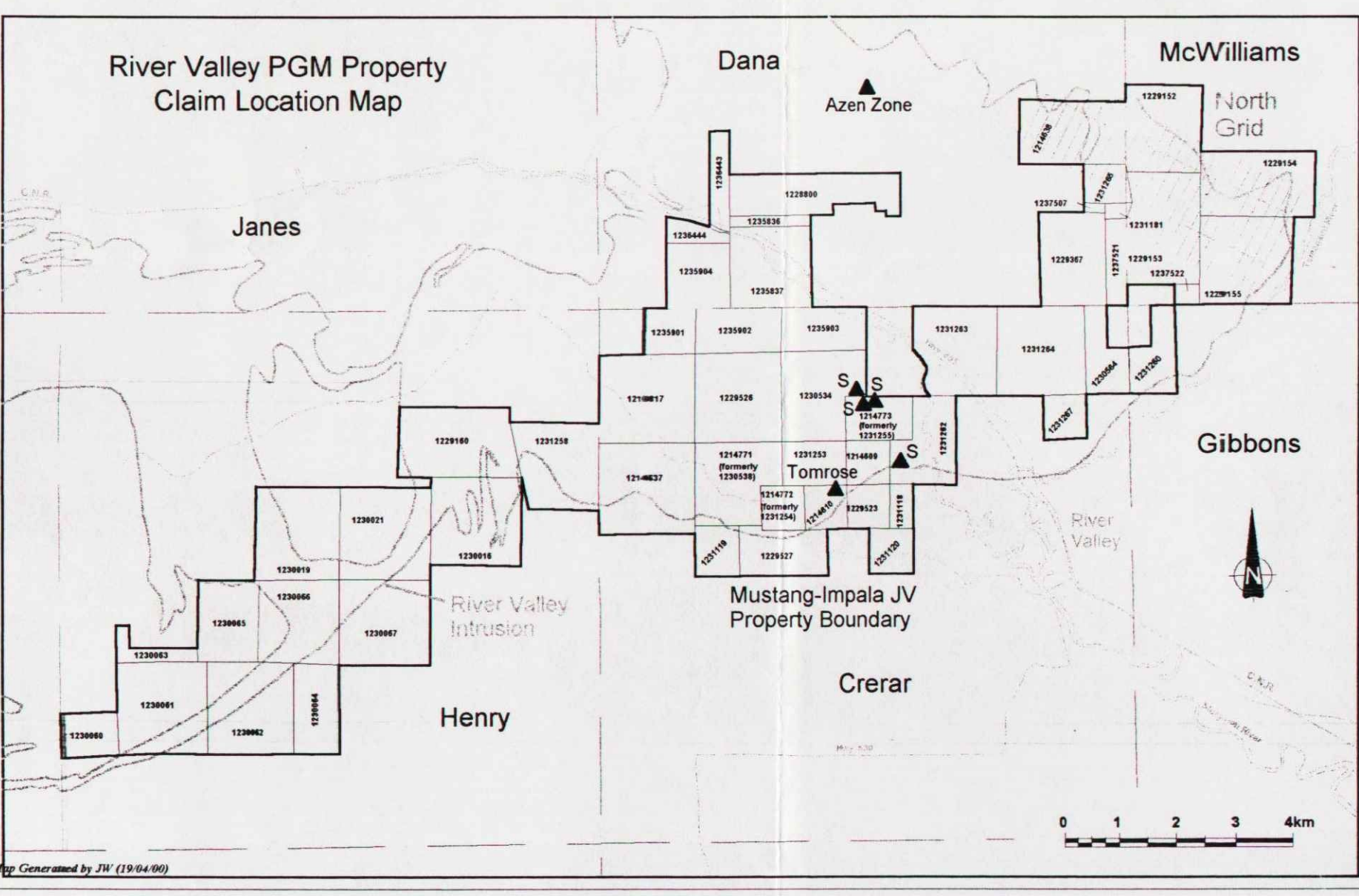


SYMBOLS

- Outcrop, outcrop area, small outcrop
- ▭ Magnetic susceptibility
- ▭ Gneissosity
- ▭ Contact as interpreted by Mustang Minerals (defined, inferred)
- ▭ Fault as interpreted by Mustang Minerals (geophysically inferred)
- ▭ Positive topographic feature
- ▭ Claim post (located, inferred)
- ▭ Claim line
- ▭ Swamp
- ▭ Pond with Beaver dam
- ▭ Road
- ▭ Trail
- ▭ Creek
- ▭ Clear cut



2.20381



Geodigital Mapping Systems Inc.  
Toronto, Ontario, Canada  
(708) 867-1128



**MUSTANG MINERALS CORP.**  
**RIVER VALLEY PGM PROPERTY**  
 North Grid, McWilliams & Dana Twp., ON  
 TIME DOMAIN IP SURVEY  
 DIPOLE - DIPOLE ARRAY (n=50m n=1-6)  
 FILTERED TOTAL CHARGEABILITY

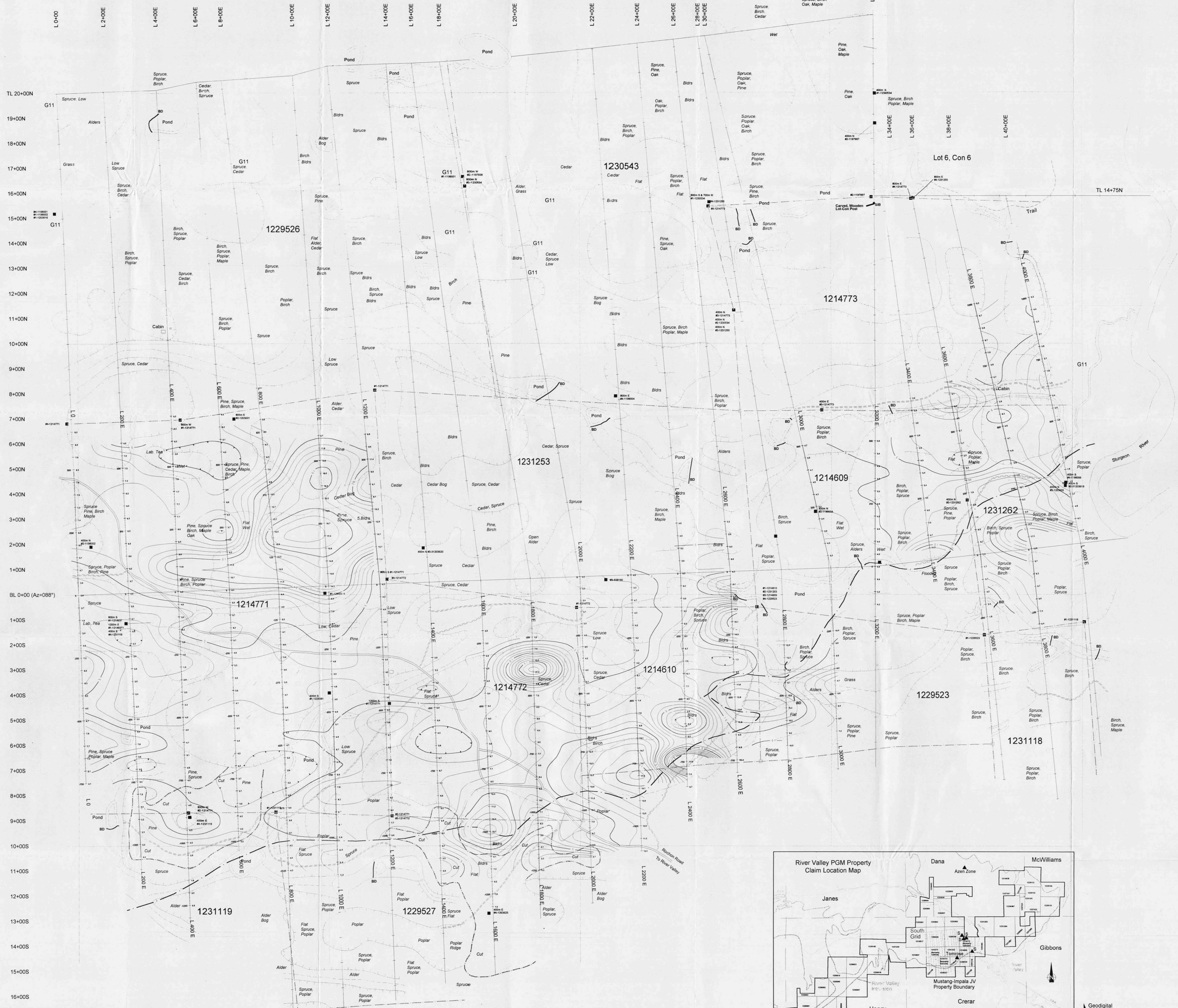
Transmitter Frequency: 0.125 Hz (50% duty cycle)  
 Transmitter Current: 0.1 to 1.0 Amps  
 Decay Curve: GIP #10 Cole-Cole Windows  
 Station Interval: 25 Gates (20ms to 1800ms)  
 Griding Method: 80-Directional  
 Grid Cell Size: 25 units (2x Manning Filter Applied)  
 Contour Interval: 5 mV/V  
 Colour Scale: Equal Area Zoning

Survey Date: April, 2000  
 Instrumentation: IRIS / BRGM IP-10  
 DWG. #: 00-112-PLAN-CHG-1  
 Tx = Phoenix IPT-1

Surveyed & Processed by: **Quantec**

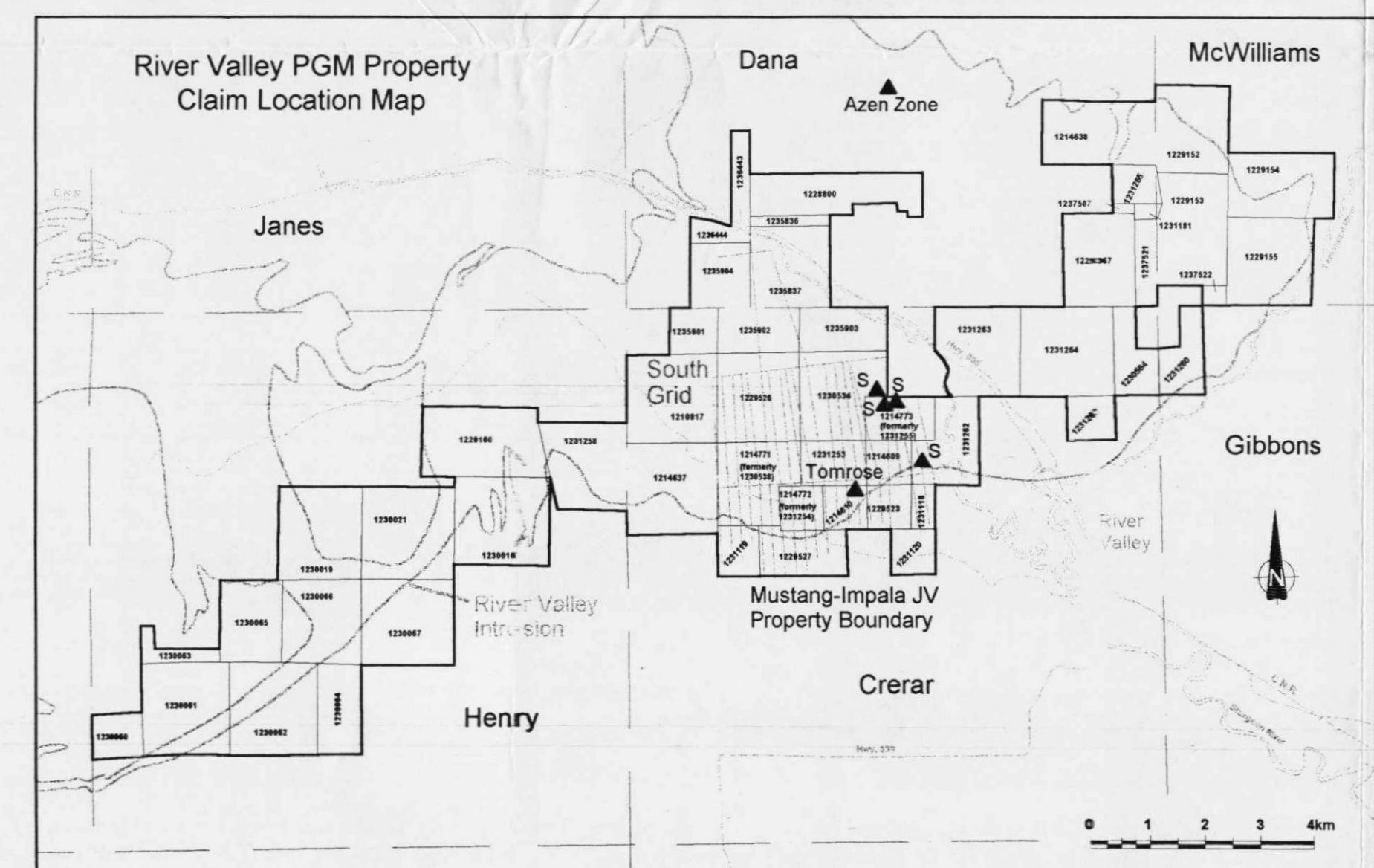
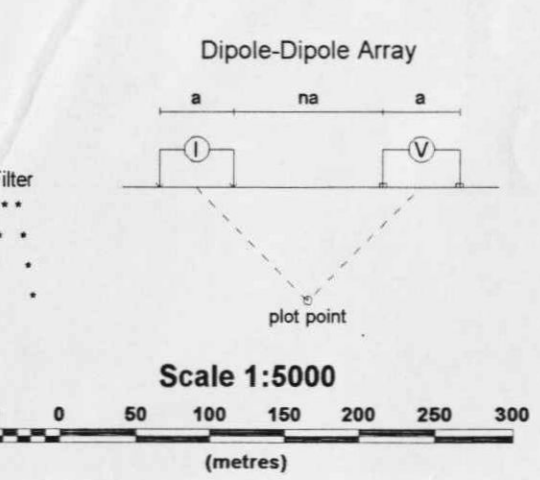


RIVER VALLEY PGM PROPERTY - FILTERED TOTAL CHARGEABILITY (mV/V)



SYMBOLS

- Outcrop, outcrop area; small outcrop
- Magnetic susceptibility
- Gneissosity
- ▭ Contact as interpreted by Mustang Minerals (defined, inferred)
- ▭ Positive topographic feature
- ▭ Claim post (located, inferred)
- Claim line
- Swamp
- Pond with Beaver dam
- Road
- Trail
- Creek
- Clear cut



2.20381

**MUSTANG MINERALS CORP.**

RIVER VALLEY PGM PROPERTY

South Grid, Crerar Twp., ON

TIME DOMAIN IP SURVEY

DIPOLE - DIPOLE ARRAY (a=50m n=1-4)

**FILTERED TOTAL CHARGEABILITY**

Transmitter Frequency: 0.125 Hz (90% duty cycle)  
 Transmitter Current: 5.1 @ 1.8 Amps  
 Decay Curve: GIP #10 Code Code Windows  
 Station Interval: 20 Stations (20m @ 1000m)  
 Station Interval: 60 metres  
 Griding Method: 2D Directional  
 Grid Cell Size: 25 units (2x Handling Filter Applied)  
 Contour Interval: 1.5 mV/V  
 Colour Scale: Equal Area Zoning

Survey Date: April, 2000  
 Instrumentation: Rx = 1001 100000 0-10  
 DWG. #: OG-112-PLAN-CHG-2 Tx = Phoenix 011-0

Surveyed & Processed by: **Quantec**  
 G.E.P.H.Y.C.E.S. W.O.R.L.D.W.I.S.E.

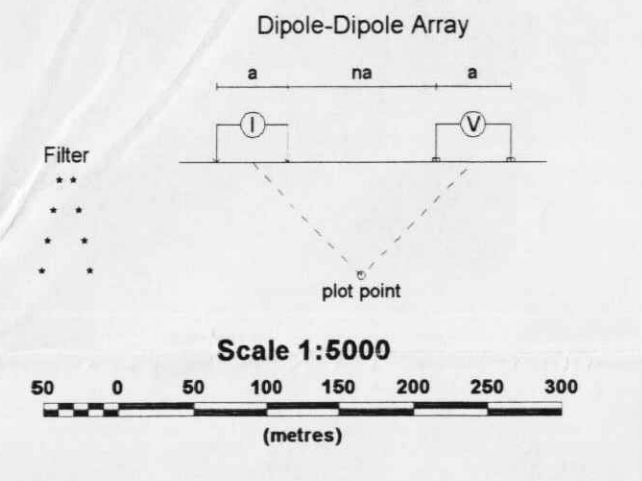
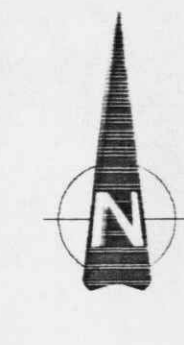




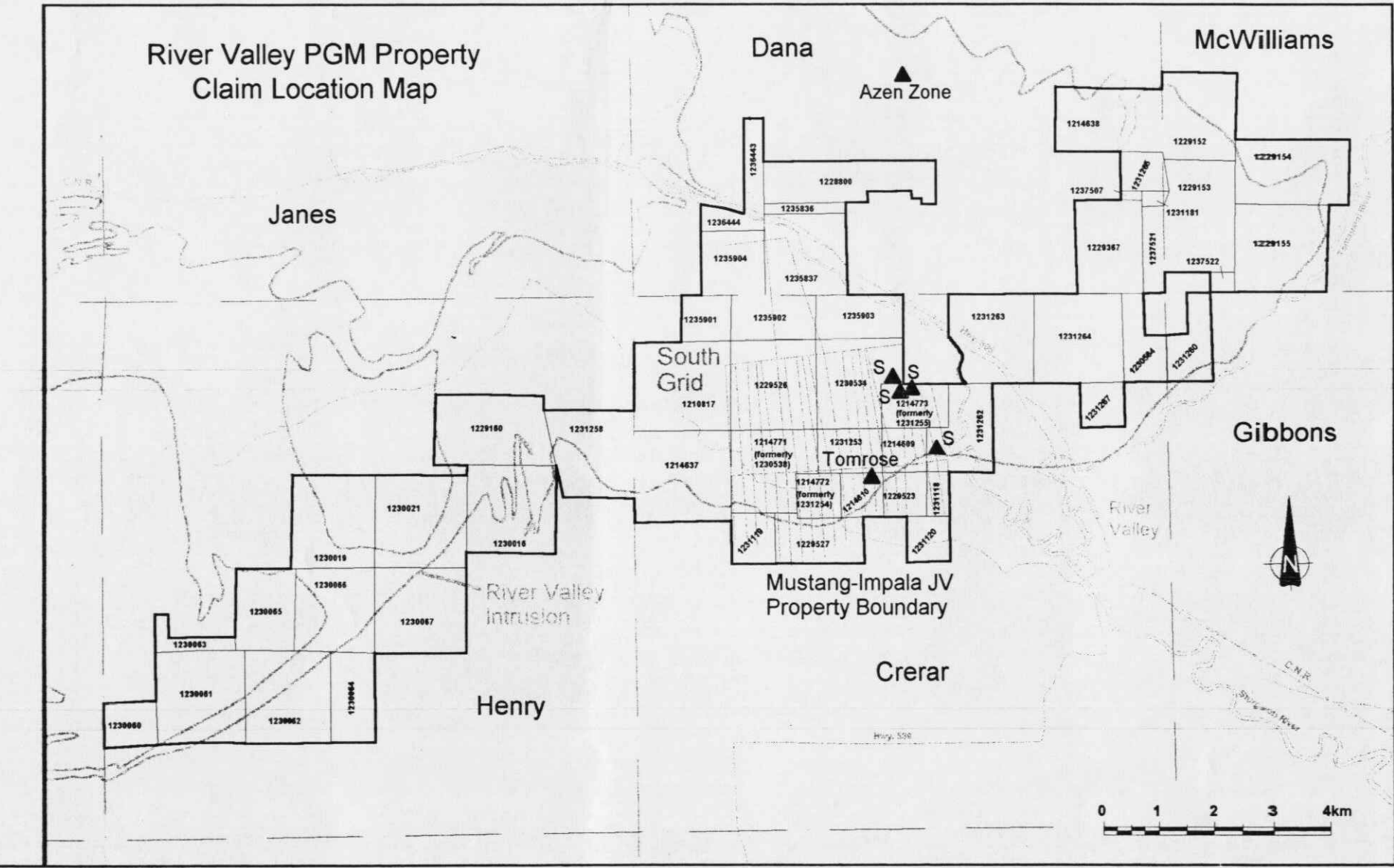
RIVER VALLEY PGM PROPERTY - FILTERED APPARENT RESISTIVITY (ohm-m)



- SYMBOLS**
- Outcrop, outcrop area, small outcrop
  - ▭ Magnetic susceptibility
  - ▭ Gneissosity
  - ▭ Contact as interpreted by Mustang Minerals (defined, inferred)
  - ▭ Positive topographic feature
  - ▭ Claim post (located, inferred)
  - Claim line
  - Swamp
  - Pond with Beaver dam
  - Road
  - Trail
  - Creek
  - Clear cut



Scale 1:5000  
0 50 100 150 200 250 300 (metres)



2.20381

**MUSTANG MINERALS CORP.**

**RIVER VALLEY PGM PROPERTY**

South Grid, Crerar Twp., ON

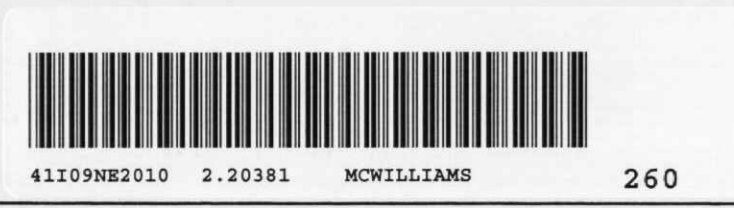
TIME DOMAIN IP SURVEY  
DIPOLE - DIPOLE ARRAY (a=50 m=1-6)  
FILTERED APPARENT RESISTIVITY

Transmitter Frequency: 0.125 Hz (90% duty cycle)  
Transmitter Current: 0.1 to 1.0 Amps  
Decay Curve: ON IP-10 Coil Coil Windows  
20 Gates (20ms to 1800ms)

Station Interval: 60 metres  
Grid Cell Size: 25 units (2x Henning Filter Applied)  
Contour Interval: 10 leveling decade  
Colour Scale: Equal Area Zoning

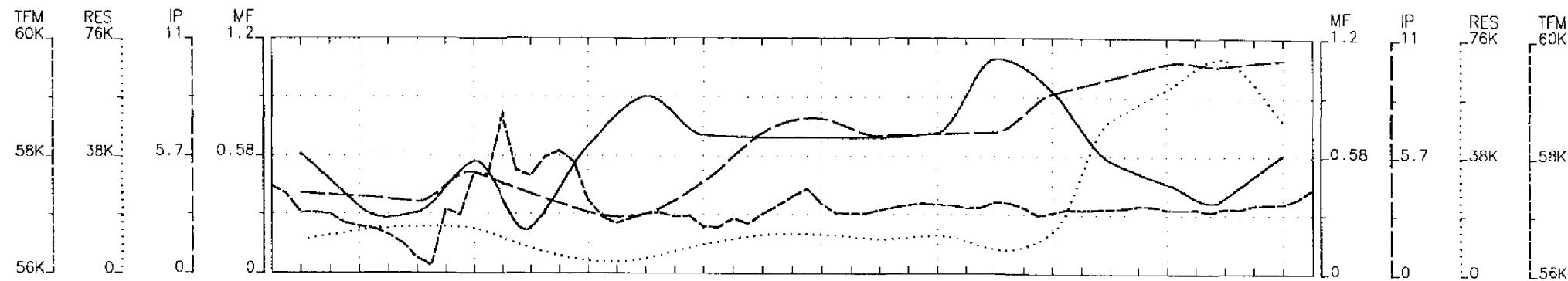
Survey Date: April 2000  
Instrumentation: Rx = BRS / BRGM IP-10  
DWG. #: OG-112-PLAN-RES-2 Tx = Phoenix IPT-1

Surveyed & Processed by: **Quantec**

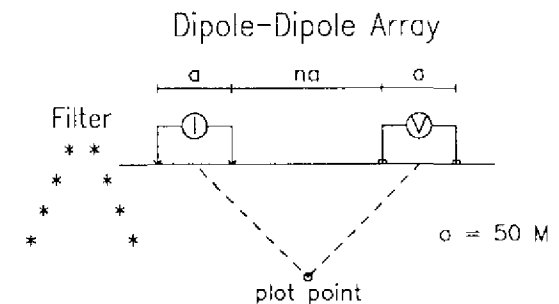




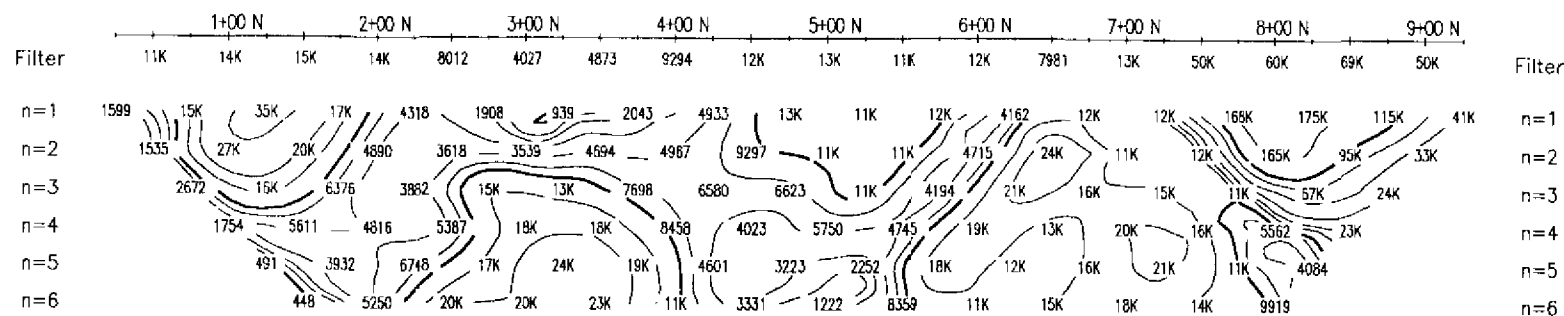




Line 200 E

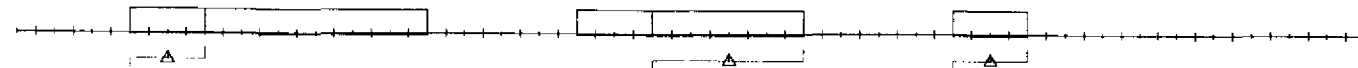


Resistivity  
ohm-metres



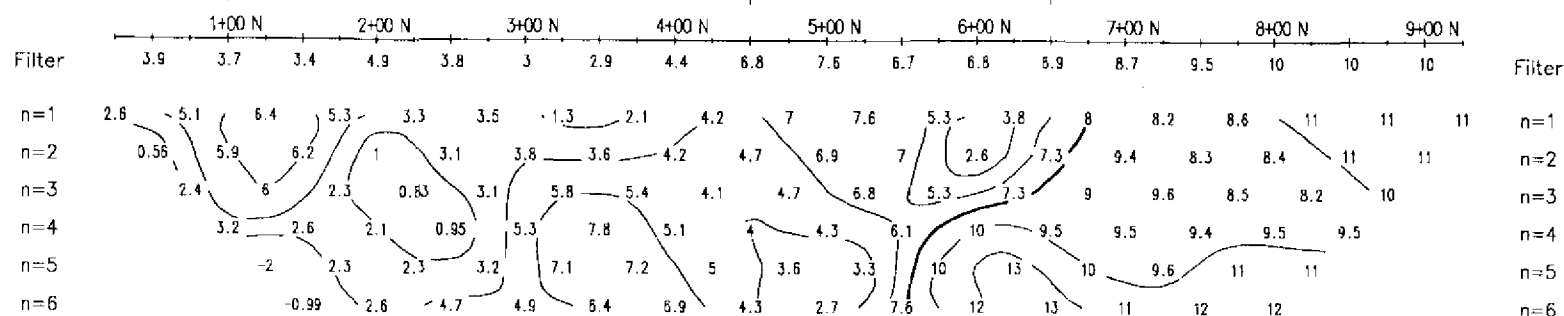
Resistivity  
ohm-metres

Interpretation  
QGI:



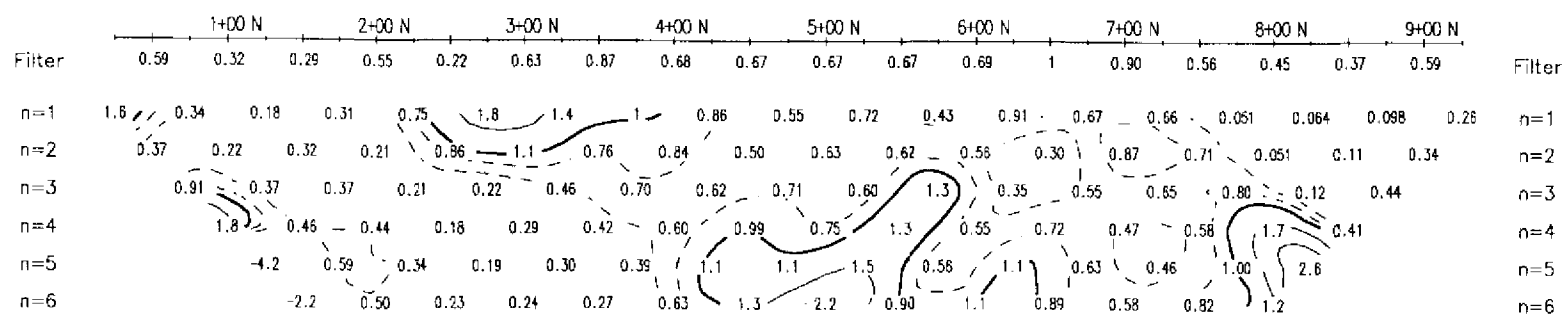
Interpretation  
QGI:

Chargeability  
millivolts/volt



Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

INTERPRETATION

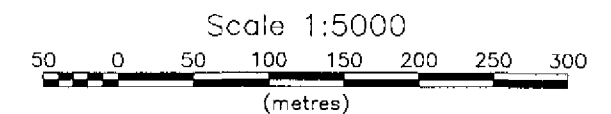
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

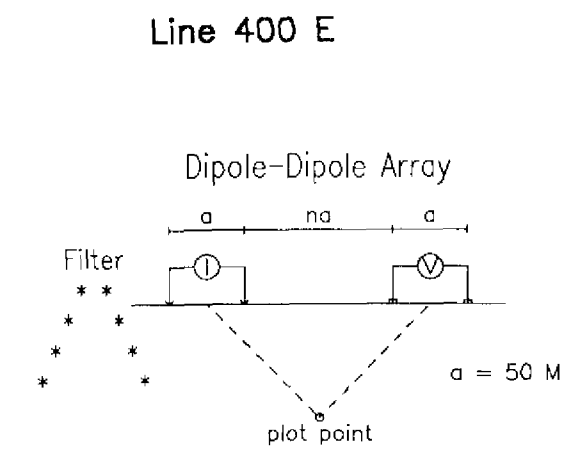
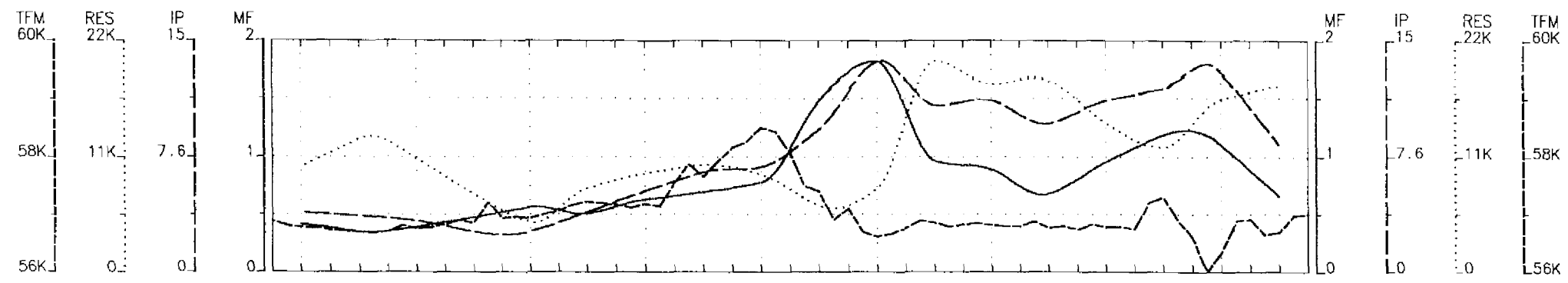
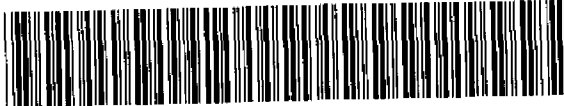
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)



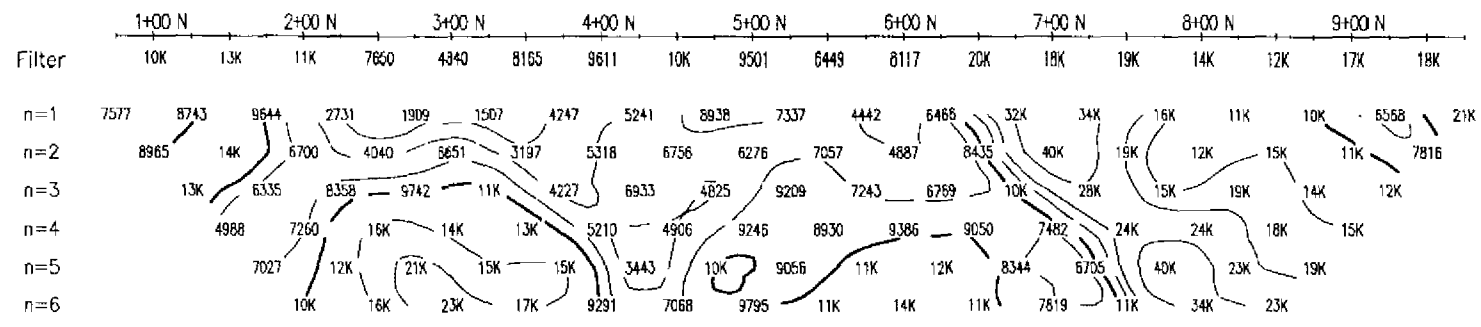
**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
North Grid, McWilliams & Dana Twps., ON

Processing Date: 00/06/04  
Drawing Number: QG-112-IP-DD-Line 200 E

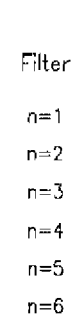
**QUANTEC GEOSCIENCE INC.**



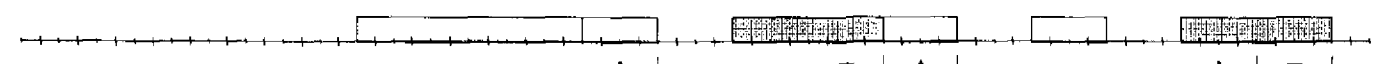
Resistivity ohm-metres



Resistivity ohm-metres



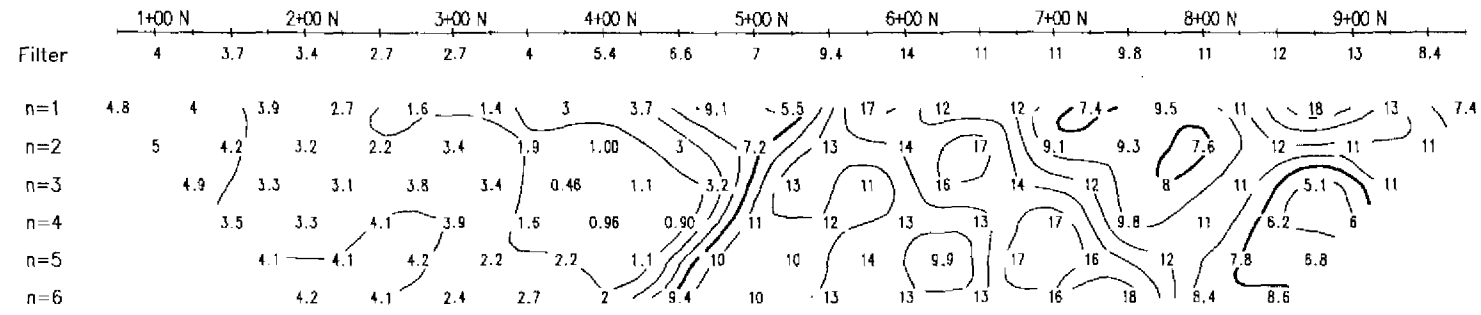
Interpretation QGI:



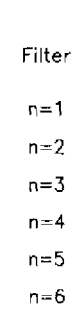
Interpretation QGI:

- INTERPRETATION
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature: Strong, Moderate, Weak
- High resistivity feature: Strong, Moderate, Weak

Chargeability millivolts/volt

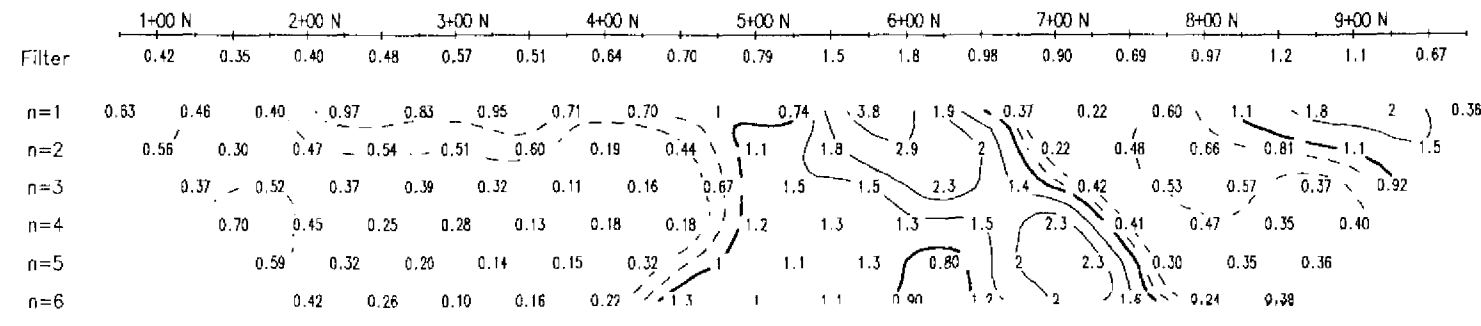


Chargeability millivolts/volt

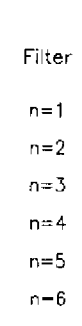


SURVEY SPECIFICATIONS
Instruments: IRIS IP-10, Phoenix IPT-1
Operators: R. Chasse, D. MacGillivray
Waveform: 0.125 Hz, 50% duty cycle
Decay Sampling: 20 windows, 20 - 1850 ms

Metal Factor IP/Resistivity

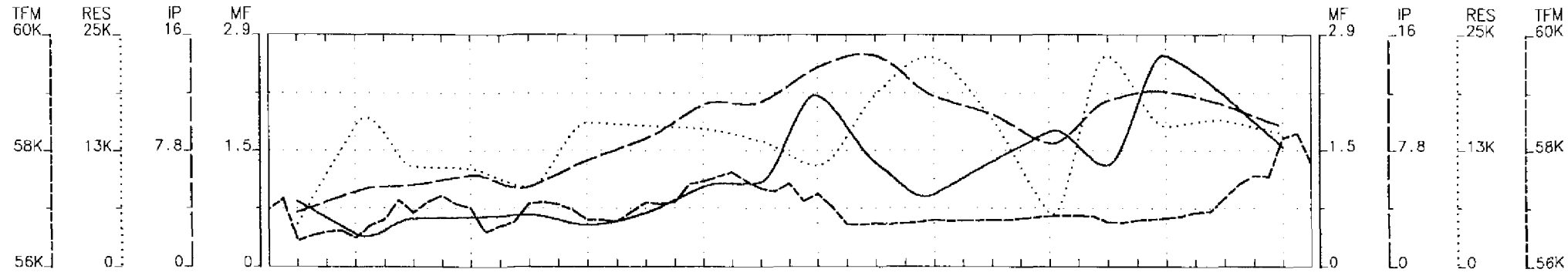


Metal Factor IP/Resistivity

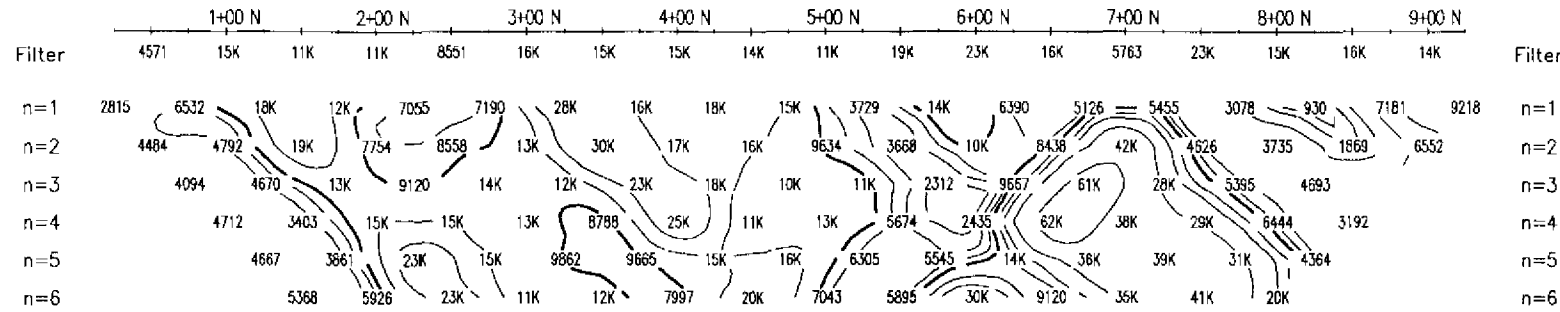


MAP SPECIFICATIONS
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)
Chargeability: Linear Contours (2 mV/V)
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)
Scale 1:5000
50 0 50 100 150 200 250 300 (metres)

MUSTANG MINERALS CORPORATION
INDUCED POLARIZATION SURVEY
RIVER VALLEY PGM PROJECT
North Grid, McWilliams & Dana Twps., ON
Processing Date: 00/06/04
Drawing Number: QG-112-IP-DD-Line 400 E
QUANTEC GEOSCIENCE INC.

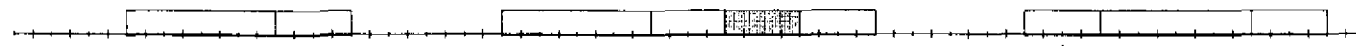


Resistivity ohm-metres



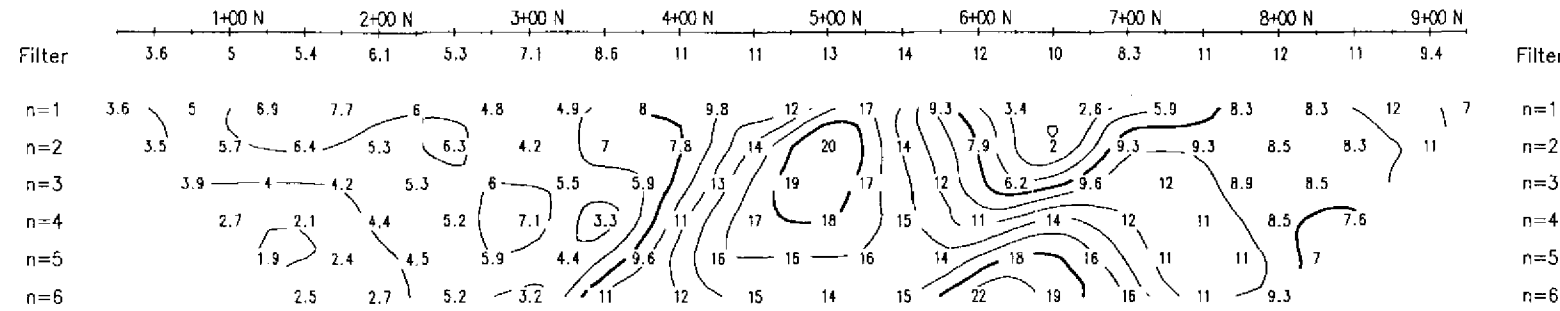
Resistivity ohm-metres

Interpretation QGI:



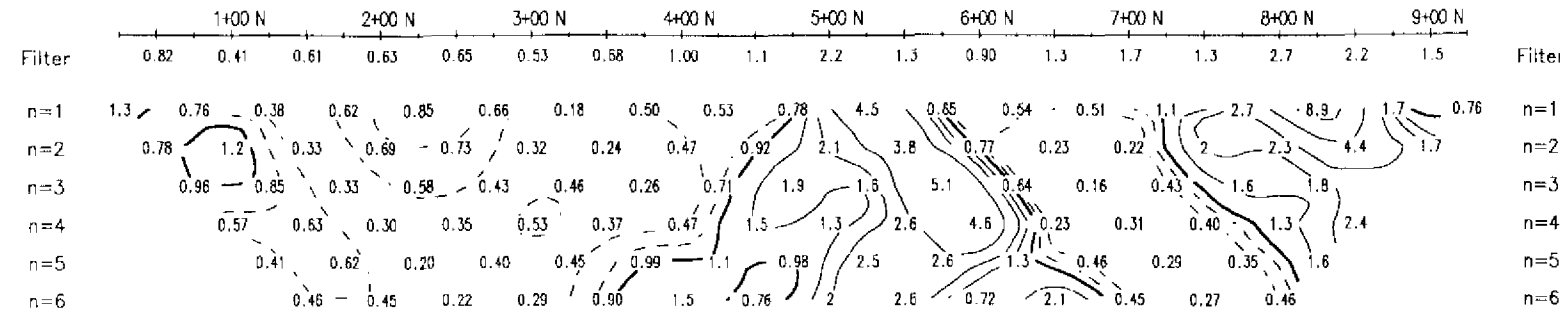
Interpretation QGI:

Chargeability millivolts/volt



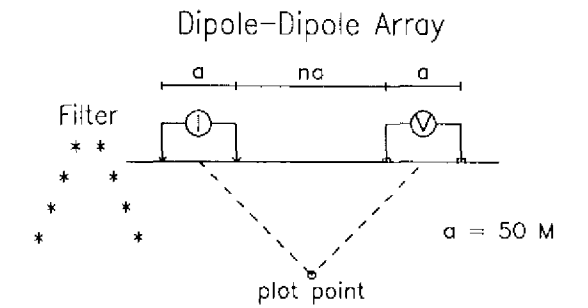
Chargeability millivolts/volt

Metal Factor IP/Resistivity



Metal Factor IP/Resistivity

Line 600 E



INTERPRETATION

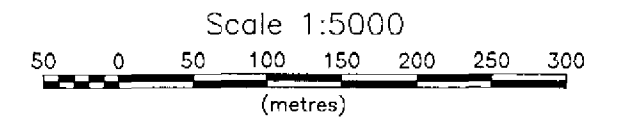
- Strong increase in polarization
Well defined increase in polarization
Poorly defined polarization increase
Low resistivity feature
High resistivity feature

SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1
Operators: R. Chasse, D. MacGillivray
Waveform: 0.125 Hz, 50% duty cycle
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)
Chargeability: Linear Contours (2 mV/V)
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

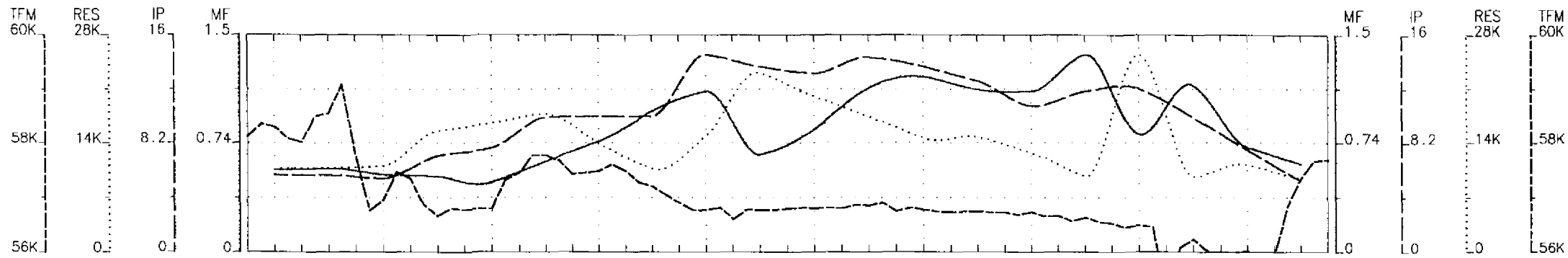


MUSTANG MINERALS CORPORATION

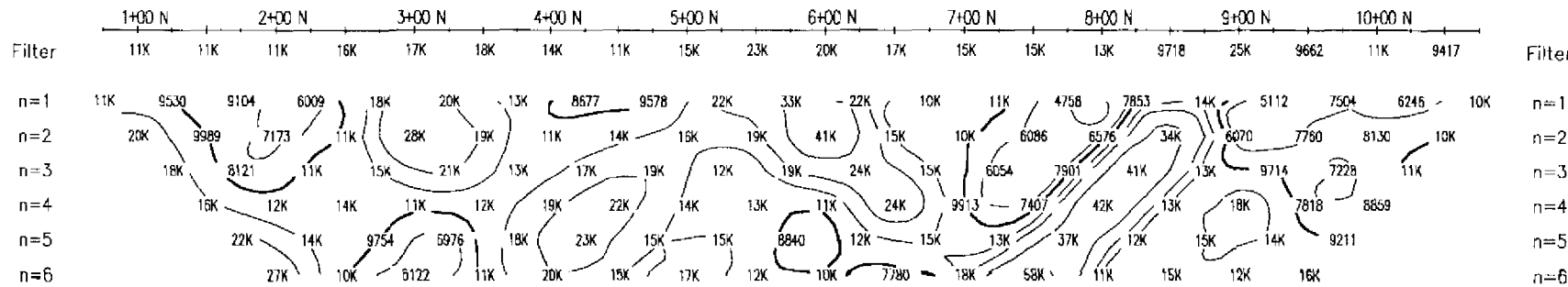
INDUCED POLARIZATION SURVEY
RIVER VALLEY PGM PROJECT
North Grid, McWilliams & Dana Twps., ON

Processing Date: 00/06/04
Drawing Number: QG-112-IP-DD-Line 600 E

QUANTEC GEOSCIENCE INC.

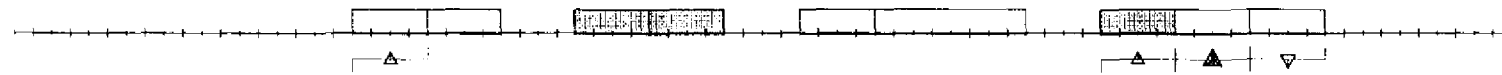


Resistivity  
ohm-metres



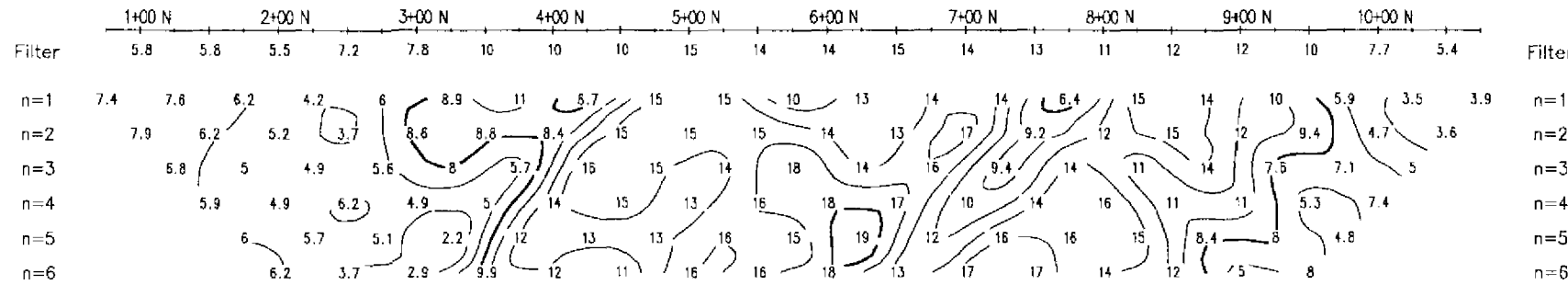
Resistivity  
ohm-metres

Interpretation  
QGI:



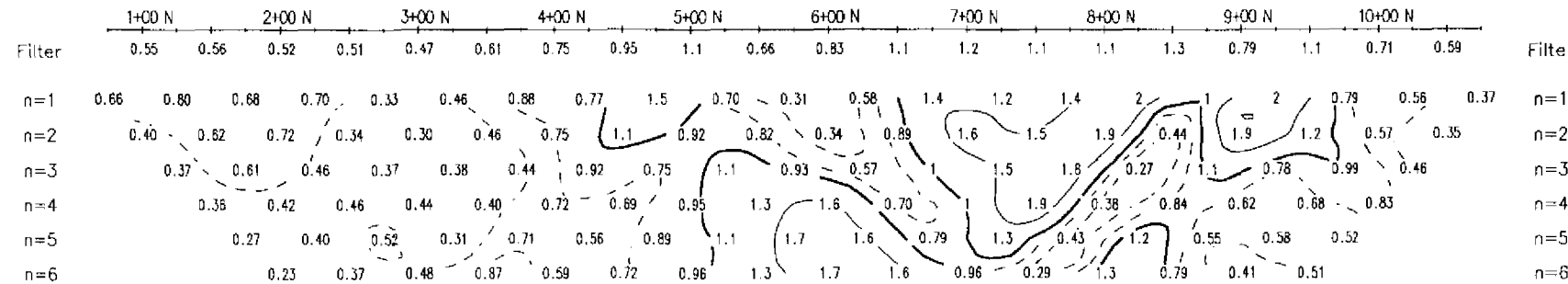
Interpretation  
QGI:

Chargeability  
millivolts/volt



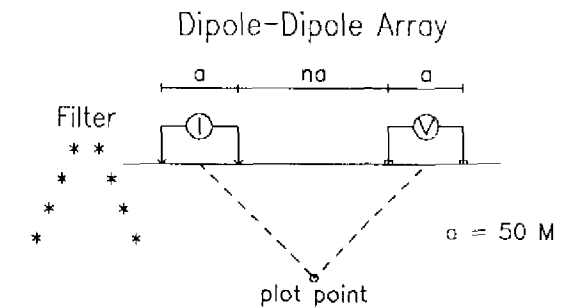
Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

### Line 800 E



### INTERPRETATION

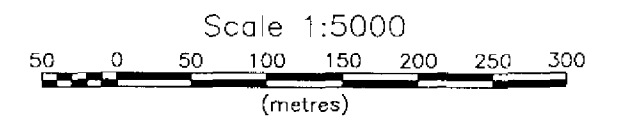
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature, Strong, Moderate, Weak
- High resistivity feature, Strong, Moderate, Weak

### SURVEY SPECIFICATIONS

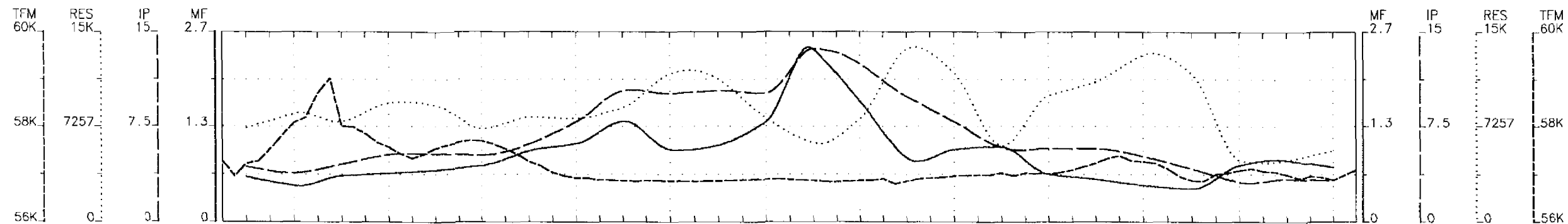
Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

### MAP SPECIFICATIONS

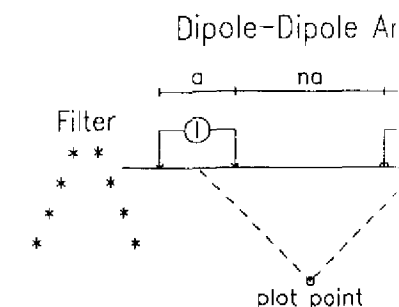
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10,...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10,...)



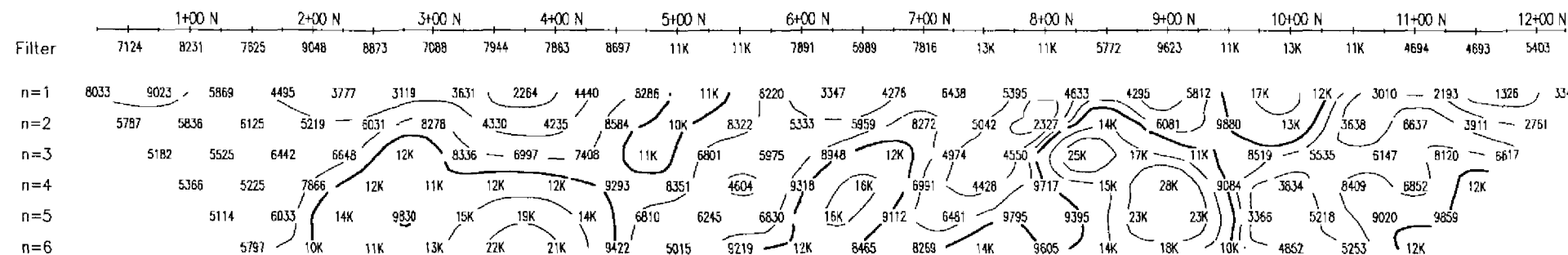
**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
 North Grid, McWilliams & Dana Twps., ON  
 Processing Date: 00/06/04  
 Drawing Number: QG-112-IP-DD-Line 800 E  
**QUANTEC GEOSCIENCE INC.**



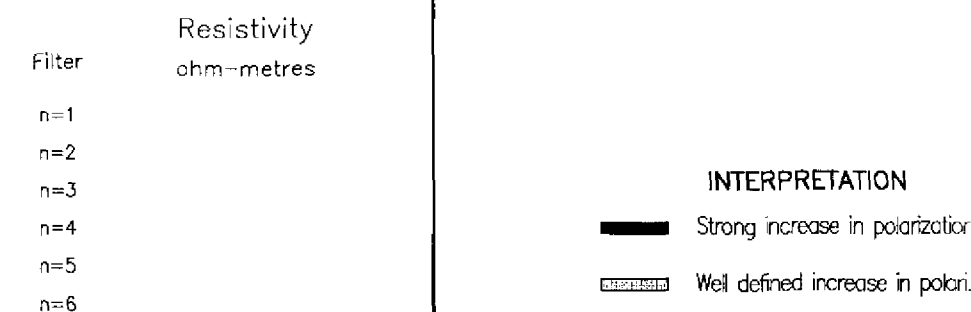
Line 1000 E



Resistivity  
ohm-metres



Resistivity  
ohm-metres



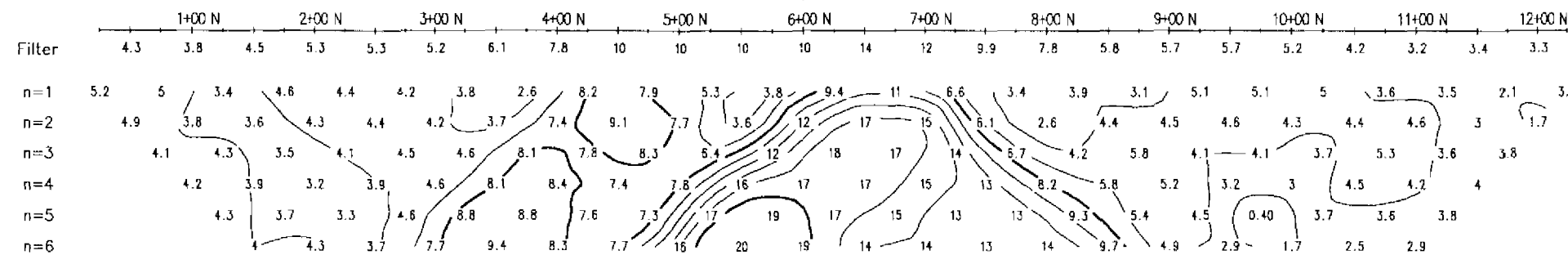
Interpretation  
QGI:



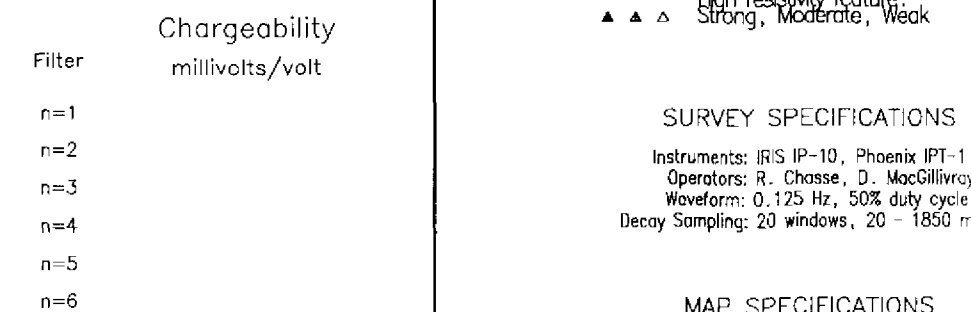
Interpretation  
QGI:



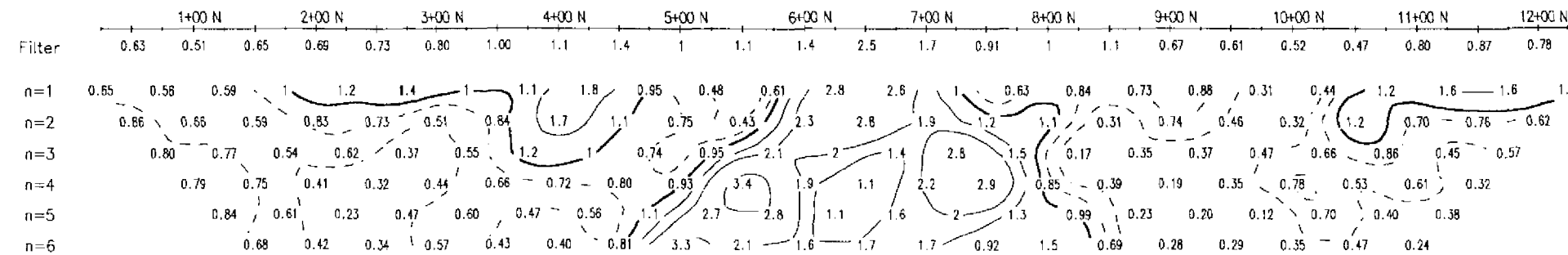
Chargeability  
millivolts/volt



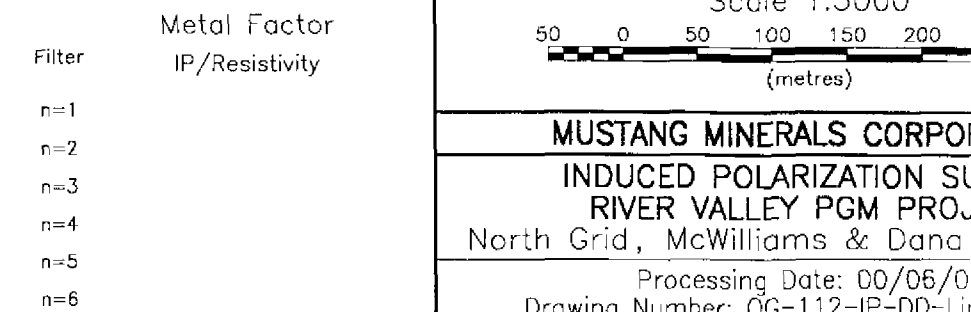
Chargeability  
millivolts/volt



Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity



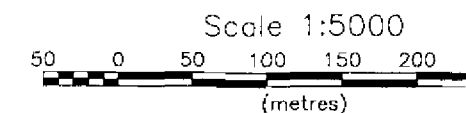
- INTERPRETATION**
- Strong increase in polarization
  - Well defined increase in polari.
  - Poorly defined polarization inc
  - Low resistivity feature  
Strong, Moderate, Weak
  - High resistivity feature  
Strong, Moderate, Weak

**SURVEY SPECIFICATIONS**

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 m

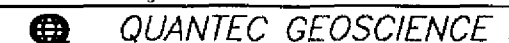
**MAP SPECIFICATIONS**

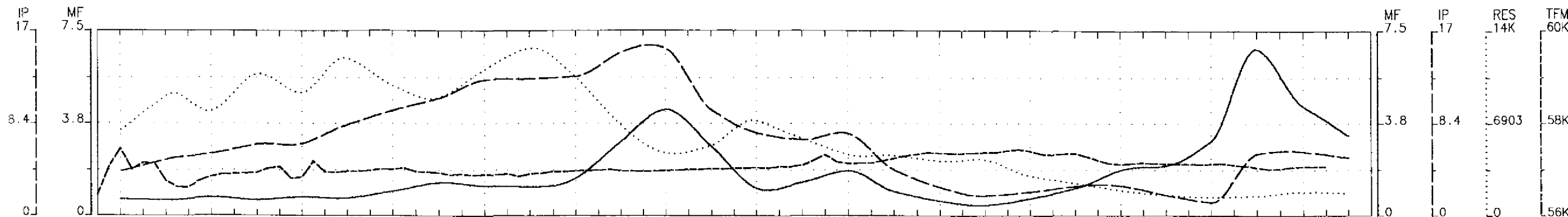
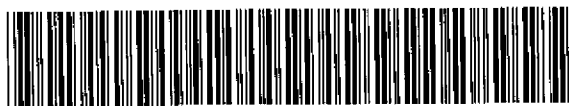
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5,  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3,



**MUSTANG MINERALS CORPO**  
**INDUCED POLARIZATION SU**  
**RIVER VALLEY PGM PROJ**  
North Grid, McWilliams & Dana

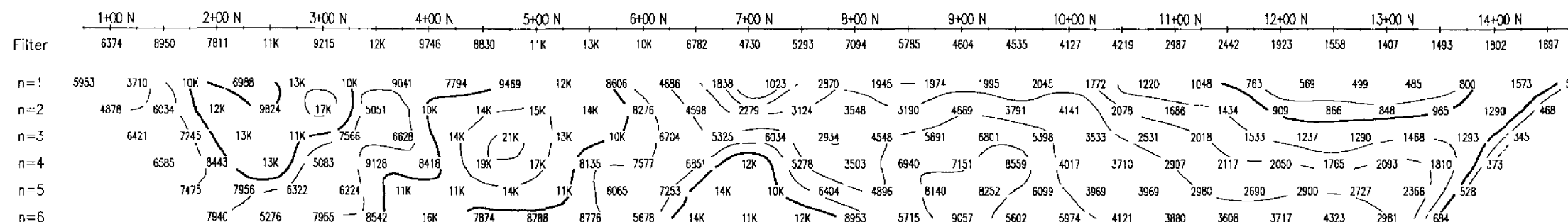
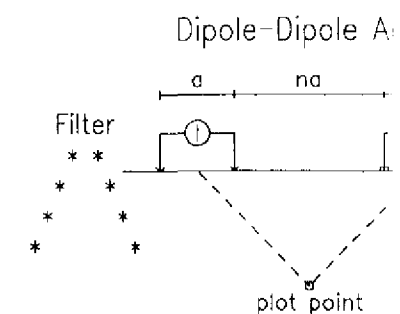
Processing Date: 00/06/0-  
Drawing Number: QG-112-IP-DD-Lir





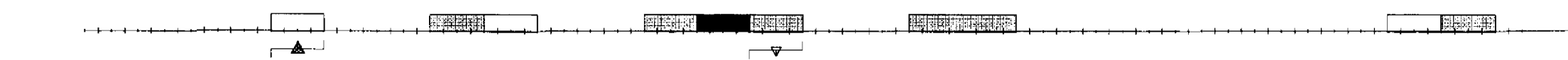
RES 14K TFM 60K  
6903 58K  
56K

### Line 1200 E

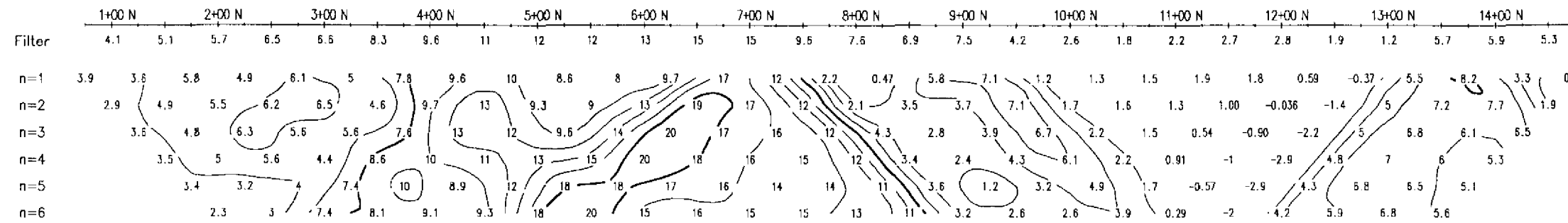


Resistivity  
ohm-metres

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

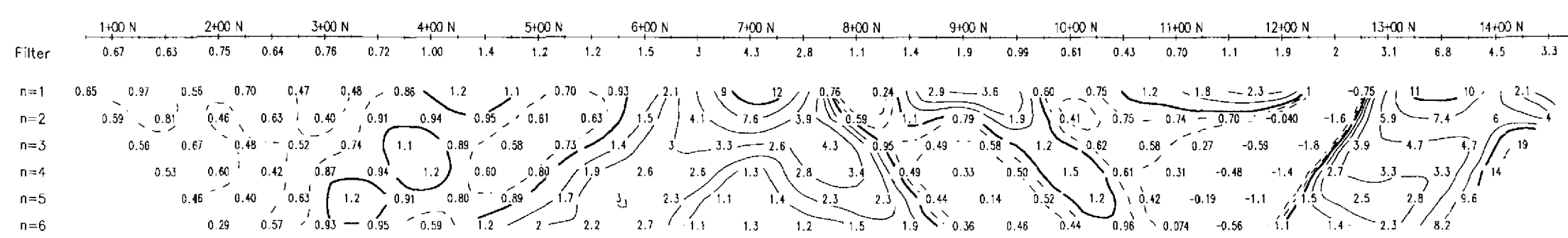


Interpretation  
QGI:



Chargeability  
millivolts/volt

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



Metal Factor  
IP/Resistivity

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

- INTERPRETATION**
- █ Strong increase in polarization
  - ▨ Well defined increase in polarization
  - ▤ Poorly defined polarization increase
  - ▼▼▼ Low resistivity feature  
Strong, Moderate, Weak
  - ▲▲▲ High resistivity feature  
Strong, Moderate, Weak

**SURVEY SPECIFICATIONS**

Instruments: IRIS IP-10, Phoenix IPT-1  
 Operators: R. Chasse, D. MacGillivray  
 Waveform: 0.125 Hz, 50% duty cycle  
 Decay Sampling: 20 windows, 20 - 1850 r

**MAP SPECIFICATIONS**

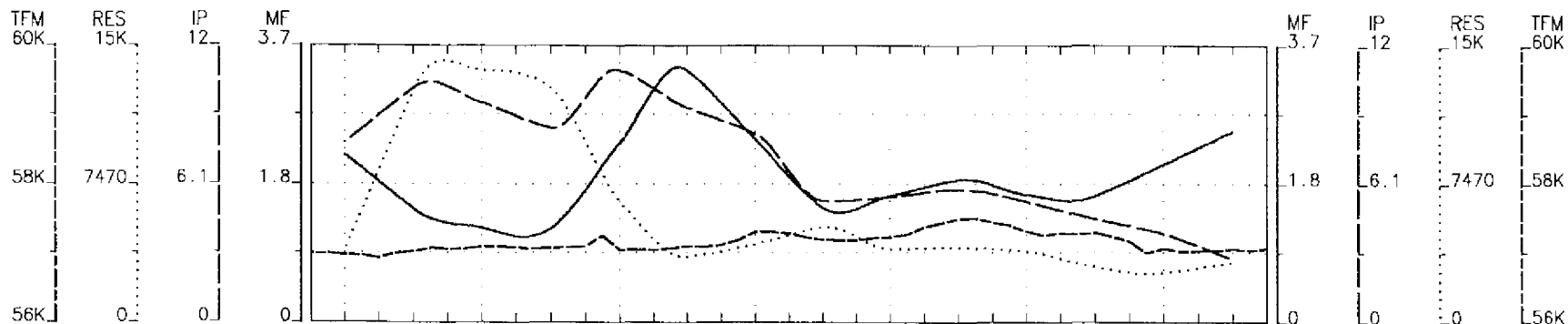
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5)  
 Chargeability: Linear Contours (2 mV/V)  
 Metal Factor: Logarithmic Contours (1, 1.5, 2, 3)

Scale 1:5000

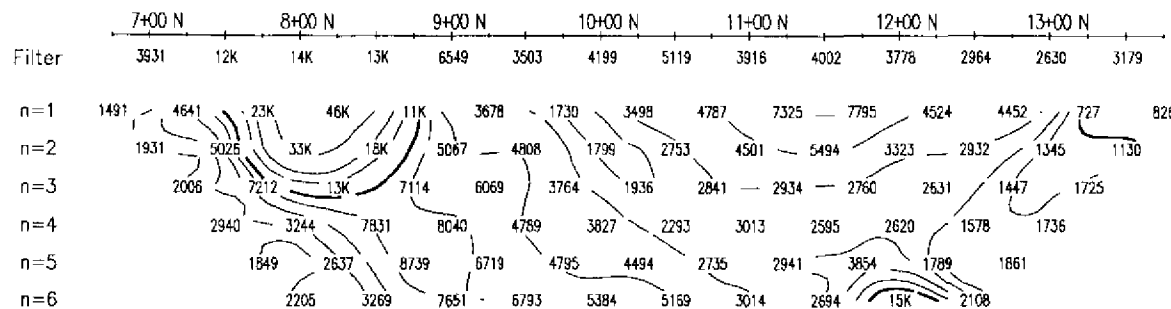
**MUSTANG MINERALS CORP**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
 North Grid, McWilliams & Dana

Processing Date: 00/06/06  
 Drawing Number: QG-112-IP-DD-Li

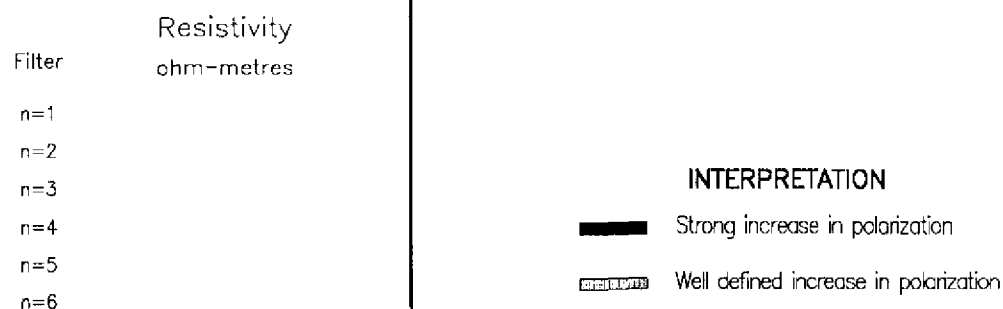
**QUANTEC GEOSCIENCE**



Resistivity  
ohm-metres



Resistivity  
ohm-metres



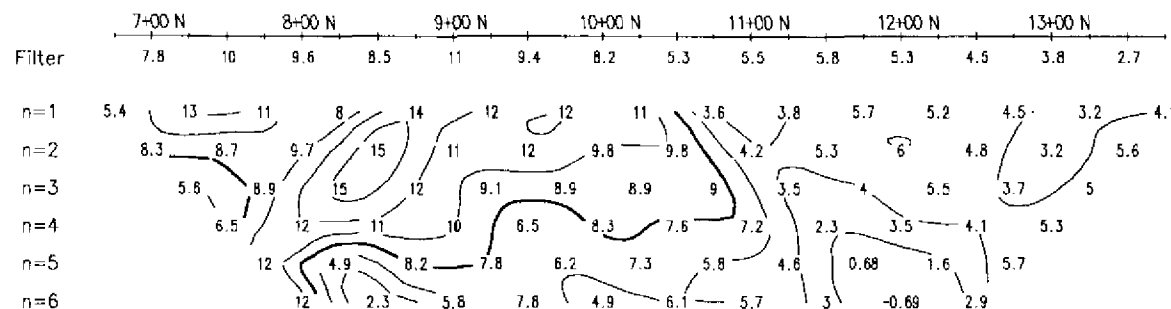
Interpretation  
QGI:



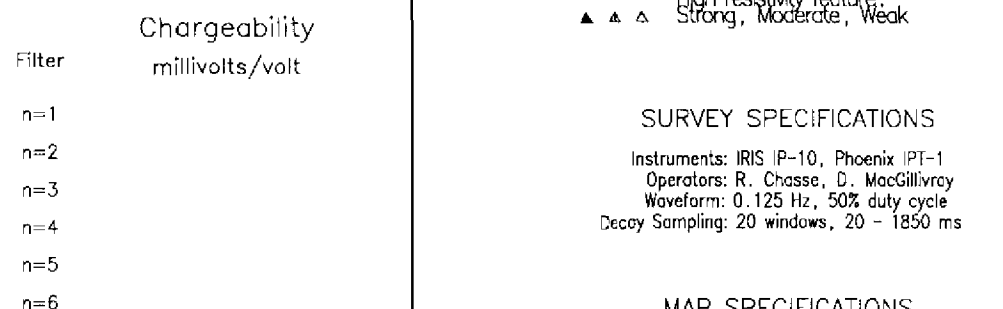
Interpretation  
QGI:



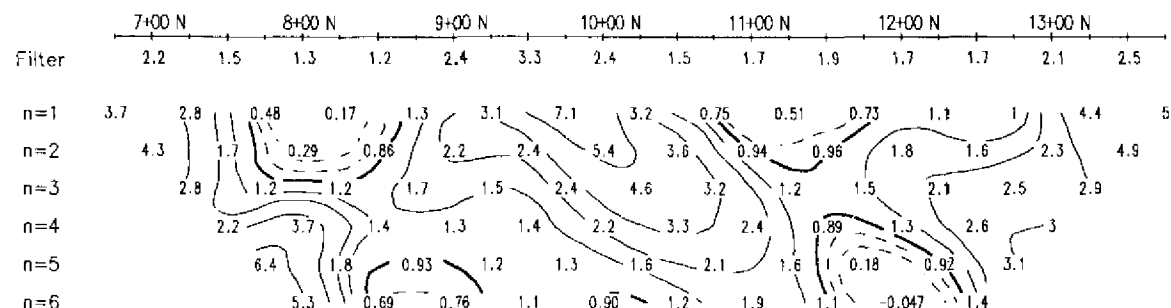
Chargeability  
millivolts/volt



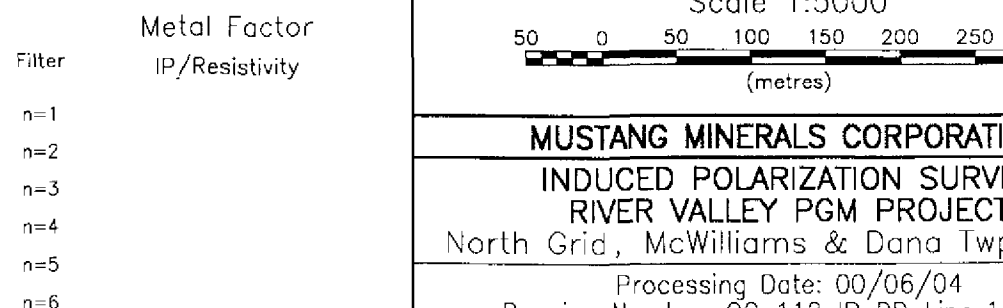
Chargeability  
millivolts/volt



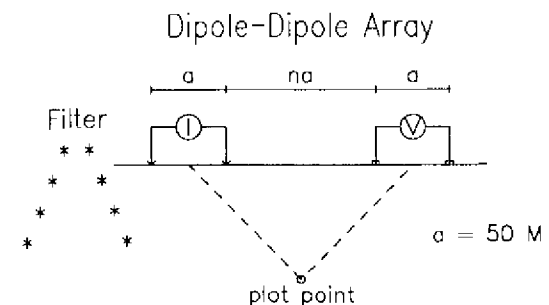
Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity



### Line 1400 E



#### INTERPRETATION

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

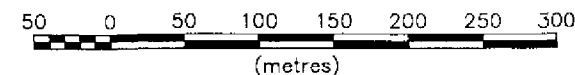
#### SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decoy Sampling: 20 windows, 20 - 1850 ms

#### MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000



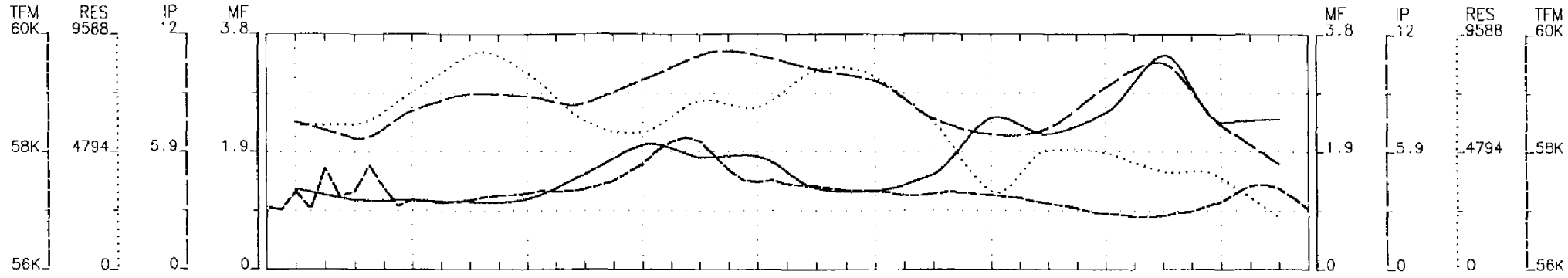
MUSTANG MINERALS CORPORATION

INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
North Grid, McWilliams & Dana Twps., ON

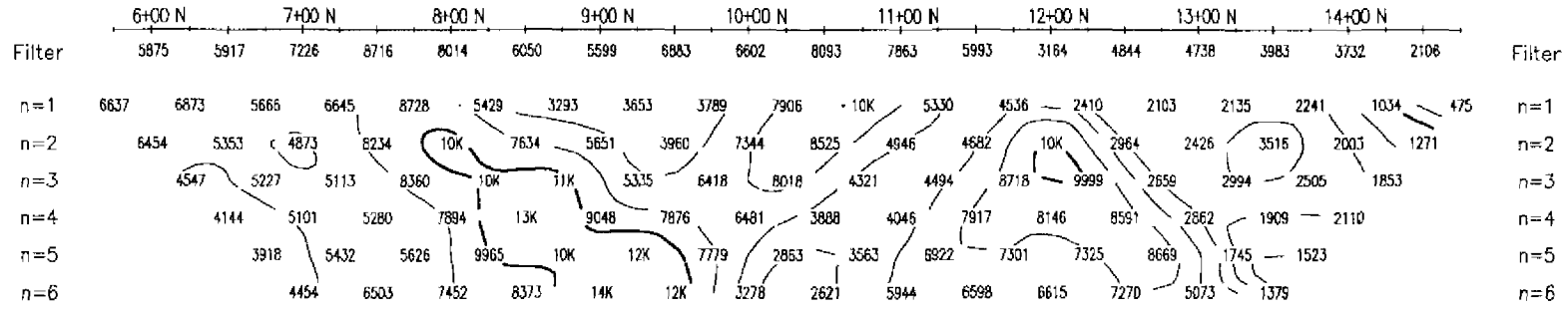
Processing Date: 00/06/04  
Drawing Number: QG-112-IP-DD-Line 1400 E

QUANTEC GEOSCIENCE INC.





Resistivity  
ohm-metres



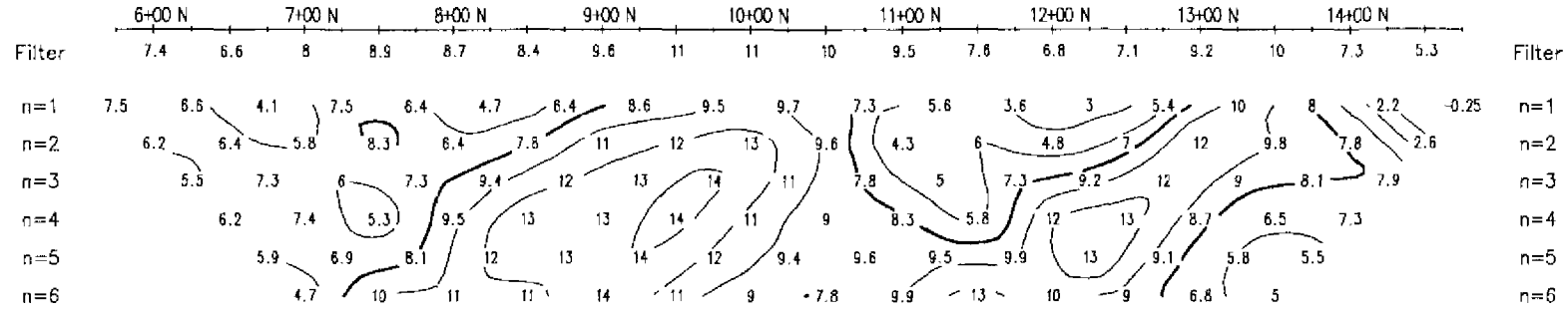
Resistivity  
ohm-metres

Interpretation  
QGI:



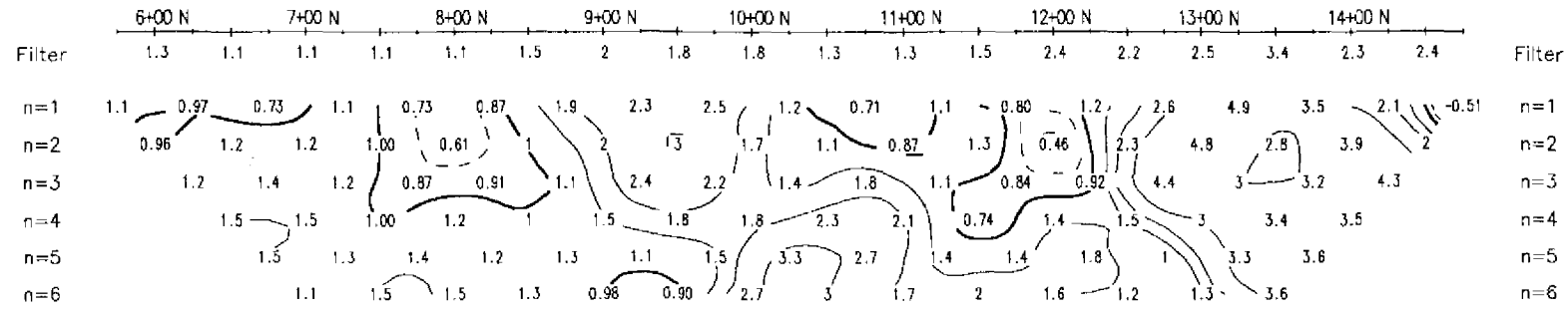
Interpretation  
QGI:

Chargeability  
millivolts/volt



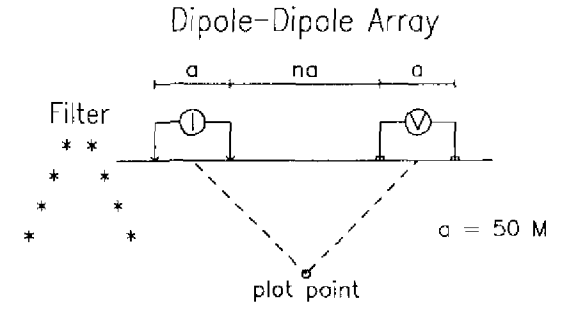
Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

Line 1600 E



INTERPRETATION

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

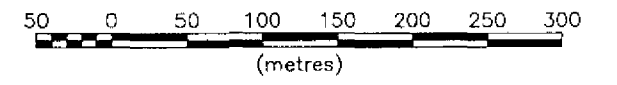
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000



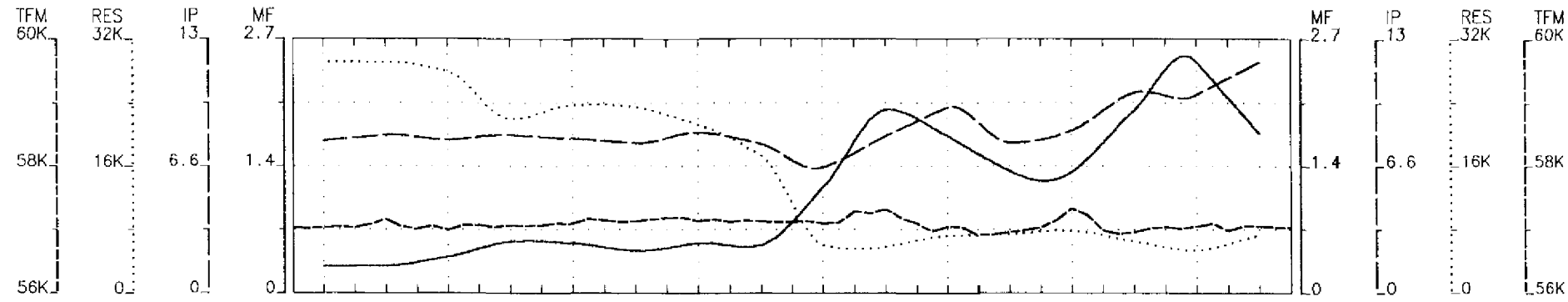
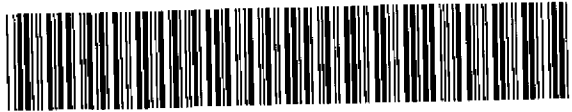
MUSTANG MINERALS CORPORATION

INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT

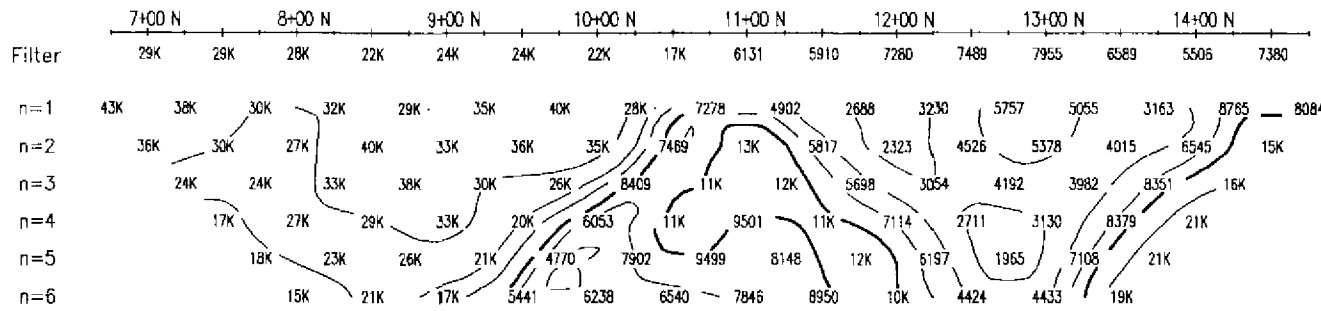
North Grid, McWilliams & Dana Twps., ON

Processing Date: 00/06/04  
Drawing Number: QG-112-IP-DD-Line 1600 E

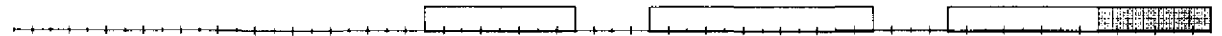
QUANTEC GEOSCIENCE INC.



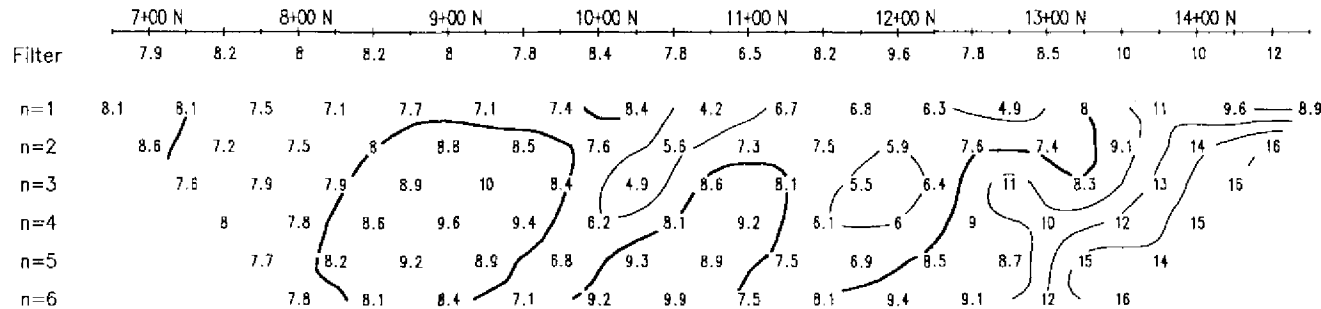
Resistivity  
ohm-metres



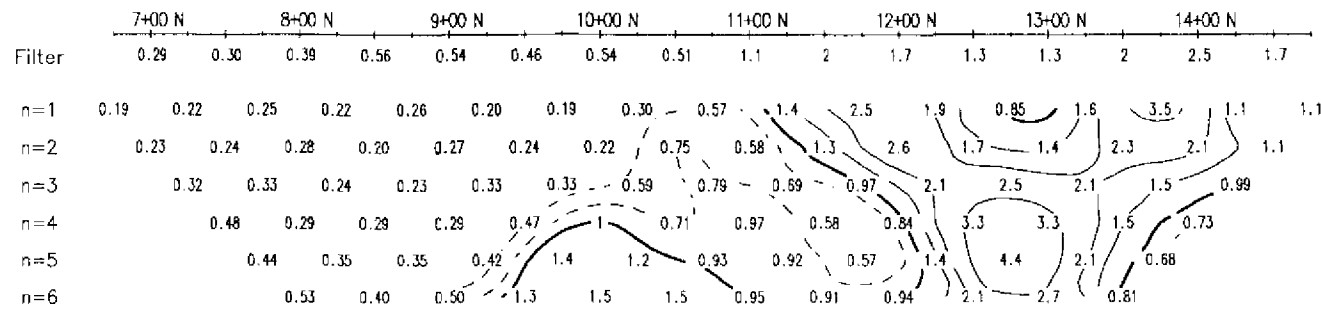
Interpretation  
QGI:



Chargeability  
millivolts/volt



Metal Factor  
IP/Resistivity



Resistivity  
ohm-metres

Filter

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

Interpretation  
QGI:

Filter

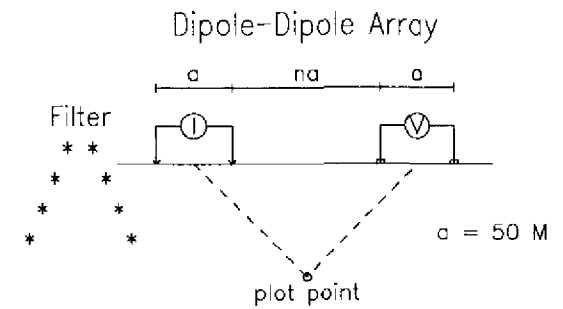
n=1  
n=2  
n=3  
n=4  
n=5  
n=6

Metal Factor  
IP/Resistivity

Filter

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

Line 1800 E



INTERPRETATION

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature: Strong, Moderate, Weak
- High resistivity feature: Strong, Moderate, Weak

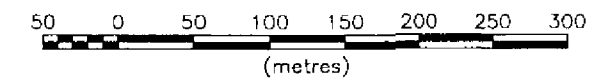
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

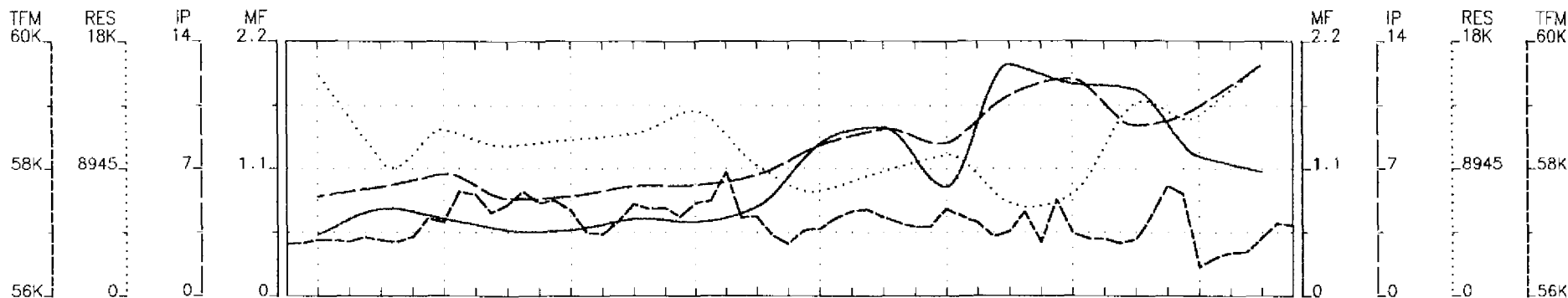
MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

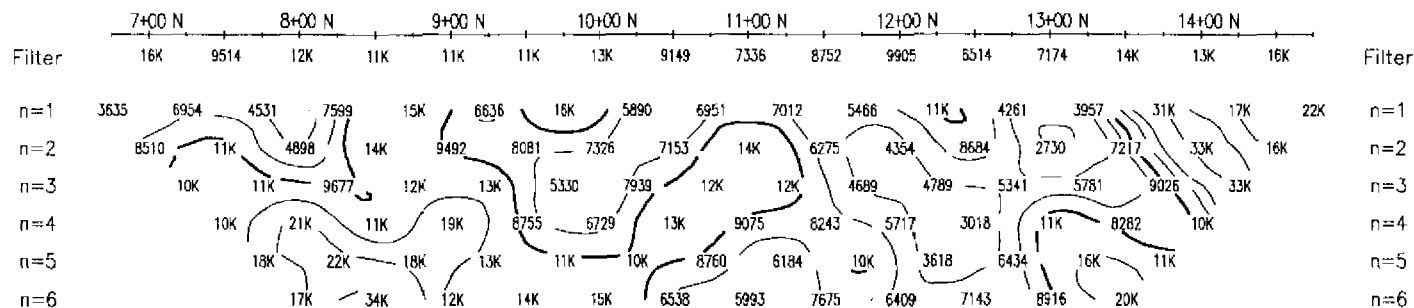
Scale 1:5000



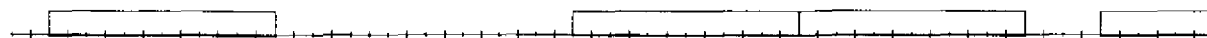
**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
 North Grid, McWilliams & Dana Twps., ON  
 Processing Date: 00/06/04  
 Drawing Number: QG-112-IP-DD-Line 1800 E  
**QUANTEC GEOSCIENCE INC.**



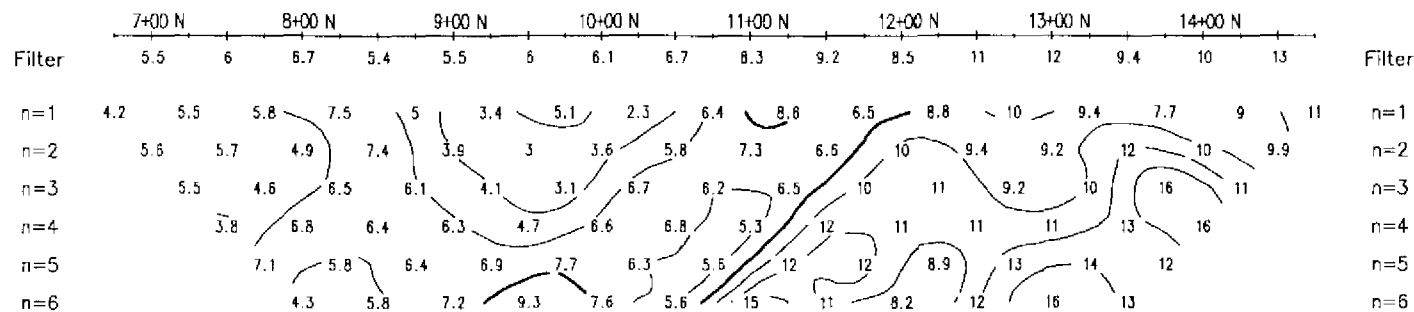
Resistivity  
ohm-metres



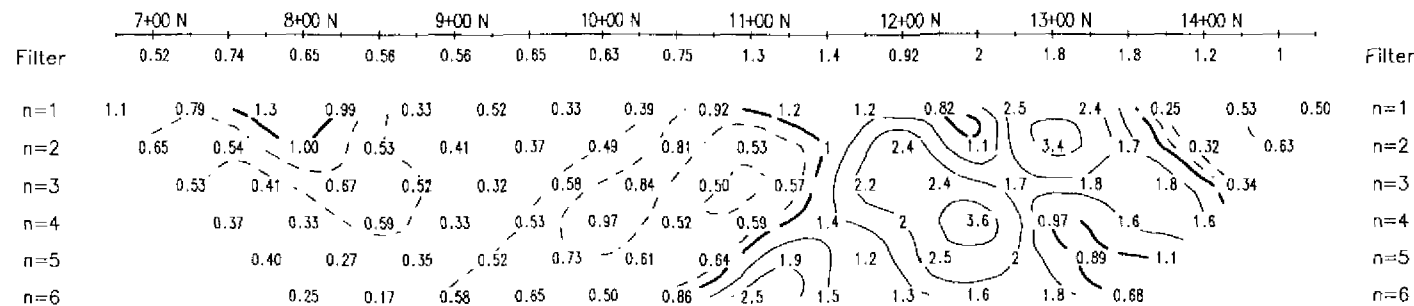
Interpretation  
QGI:



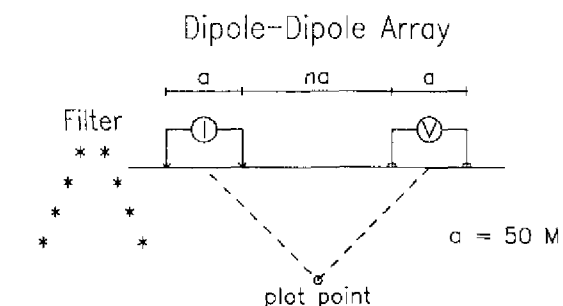
Chargeability  
millivolts/volt



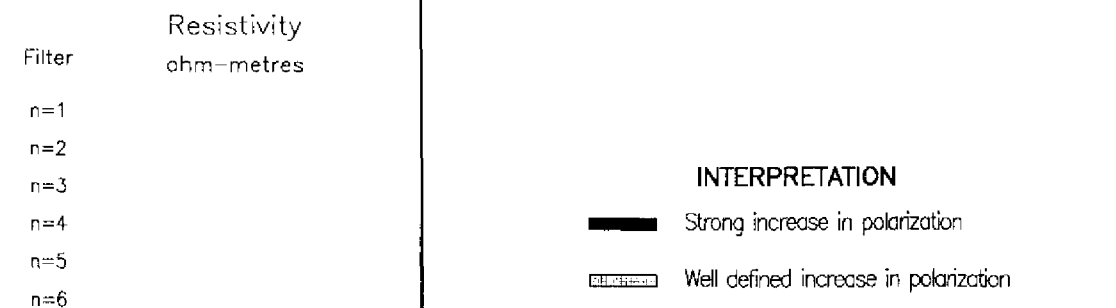
Metal Factor  
IP/Resistivity



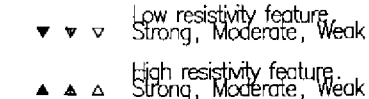
### Line 2000 E



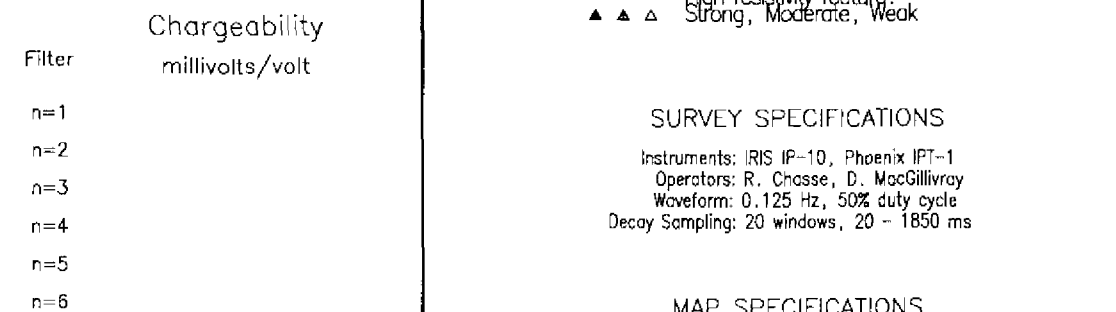
Resistivity  
ohm-metres



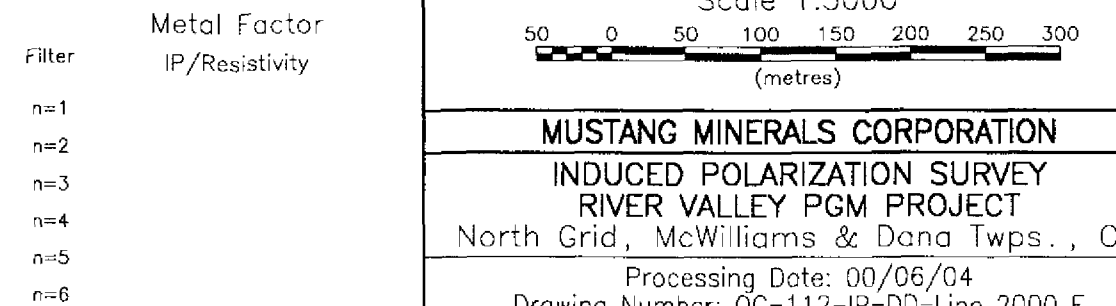
Interpretation  
QGI:



Chargeability  
millivolts/volt



Metal Factor  
IP/Resistivity



### INTERPRETATION

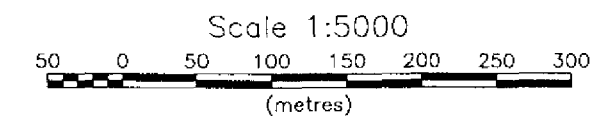
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

### SURVEY SPECIFICATIONS

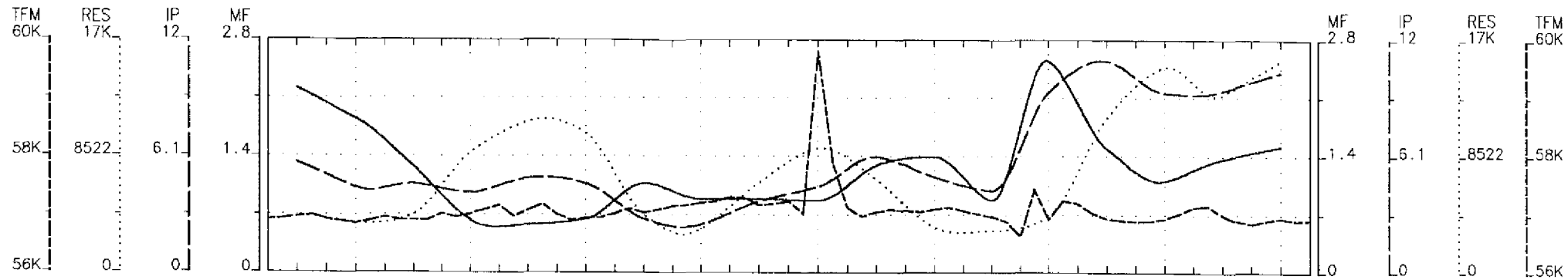
Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

### MAP SPECIFICATIONS

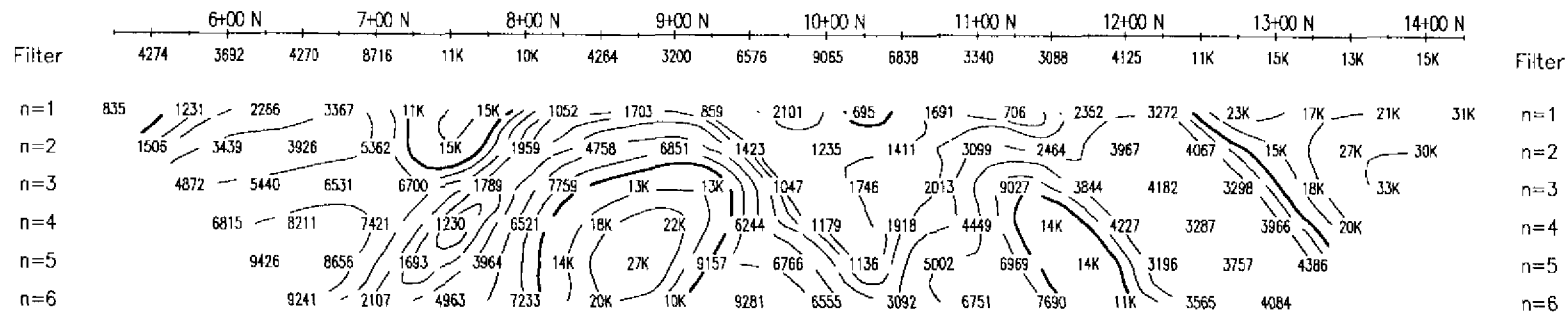
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10,...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10,...)



**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
 North Grid, McWilliams & Dana Twps., ON  
 Processing Date: 00/06/04  
 Drawing Number: QG-112-IP-DD-Line 2000 E  
**QUANTEC GEOSCIENCE INC.**

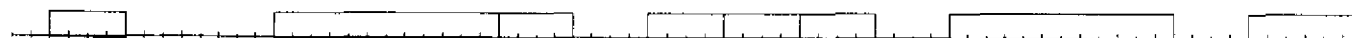


Resistivity  
ohm-metres



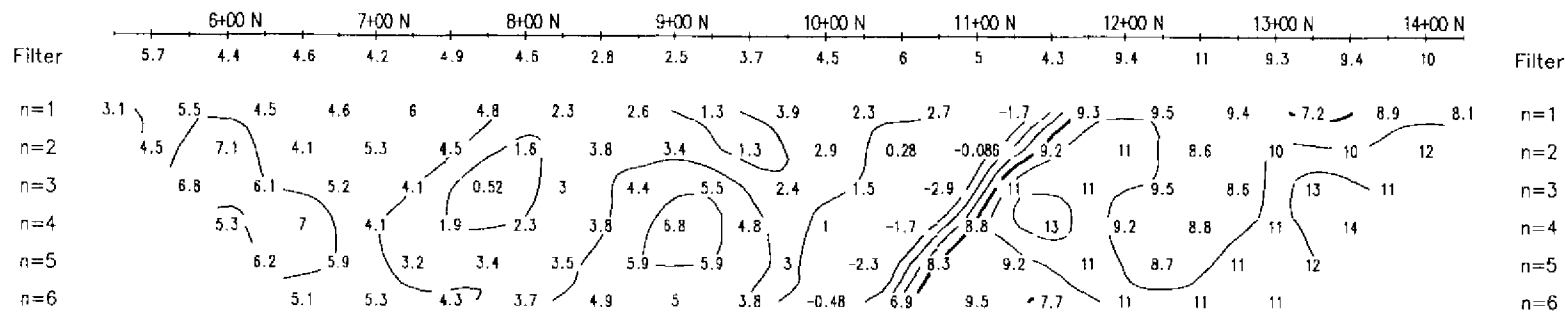
Resistivity  
ohm-metres

Interpretation  
QGI:



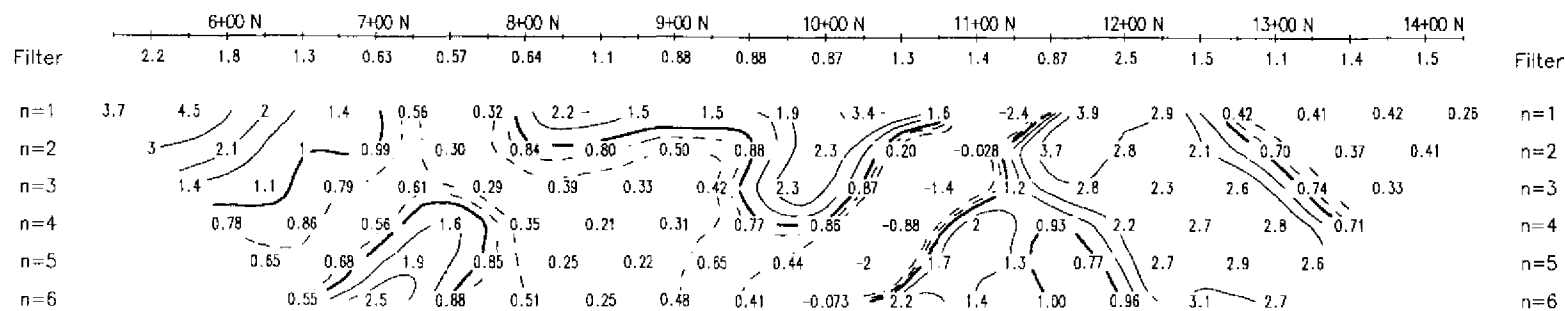
Interpretation  
QGI:

Chargeability  
millivolts/volt



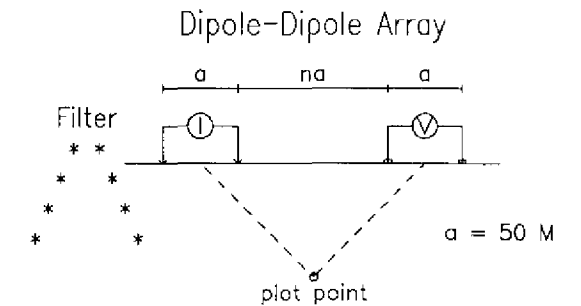
Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

### Line 2200 E



### INTERPRETATION

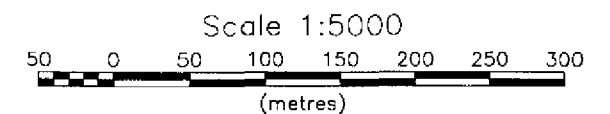
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature, Strong, Moderate, Weak
- High resistivity feature, Strong, Moderate, Weak

### SURVEY SPECIFICATIONS

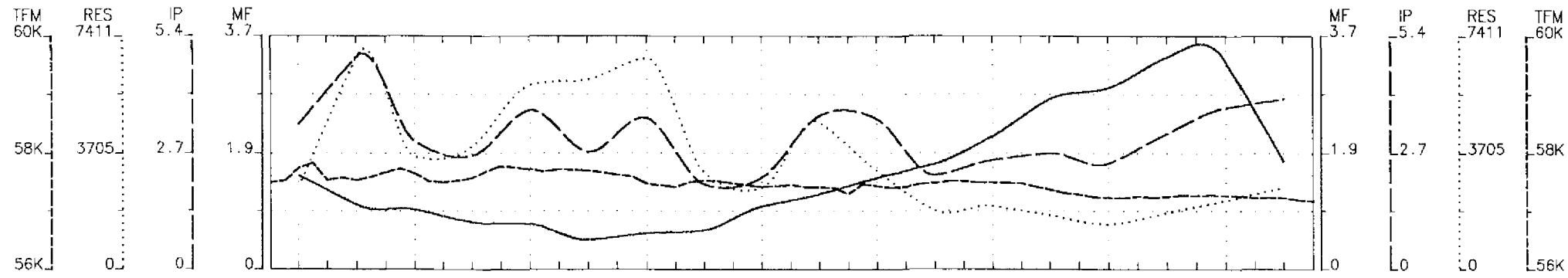
Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

### MAP SPECIFICATIONS

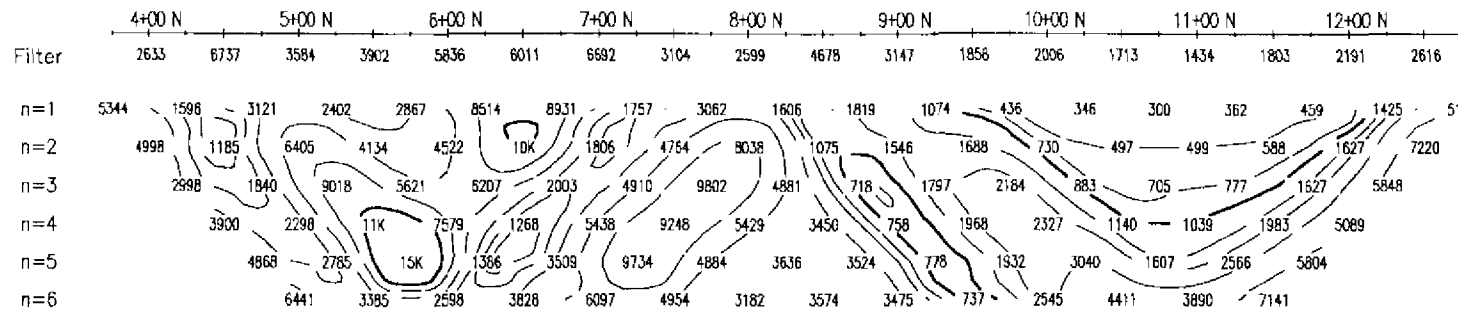
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)



**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
North Grid, McWilliams & Dana Twps., ON  
Processing Date: 00/06/04  
Drawing Number: QG-112-IP-DD-Line 2200 E  
 **QUANTEC GEOSCIENCE INC.**



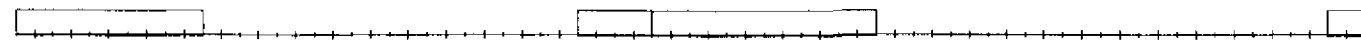
Resistivity  
ohm-metres



Resistivity  
ohm-metres

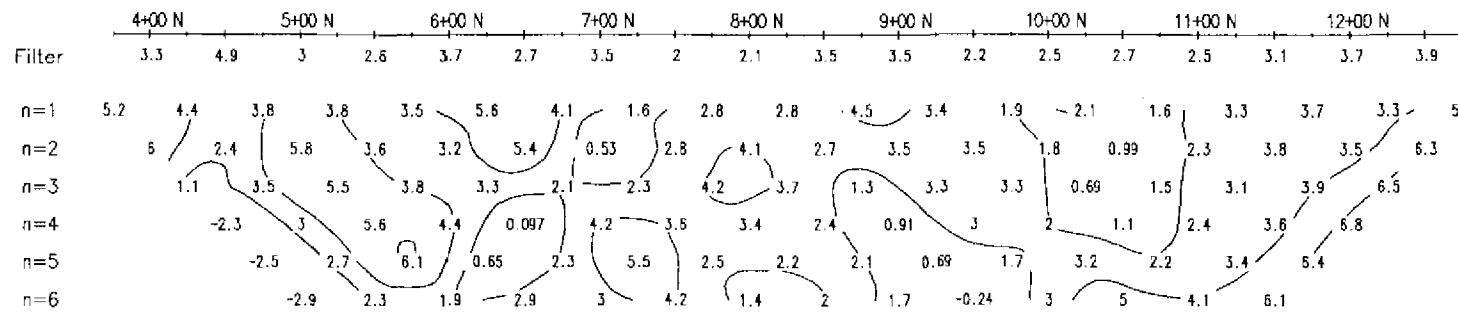
Filter

Interpretation  
QGI:



Interpretation  
QGI:

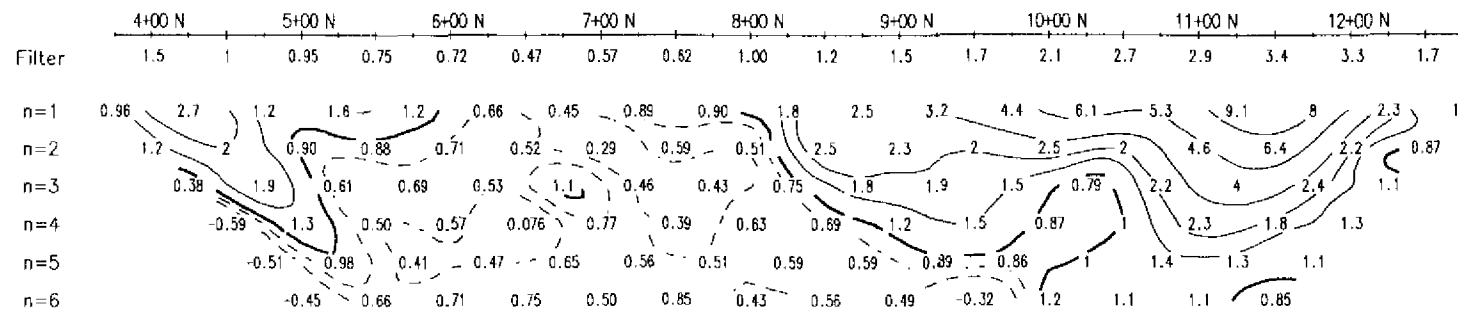
Chargeability  
millivolts/volt



Chargeability  
millivolts/volt

Filter

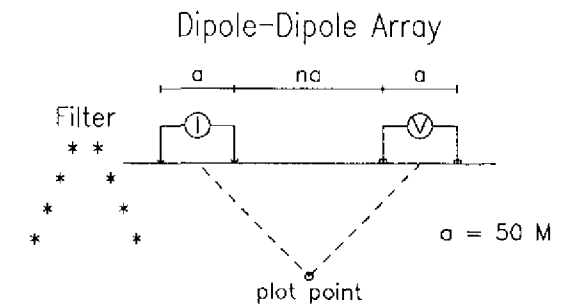
Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

Filter

### Line 2400 E



### INTERPRETATION

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature, Strong, Moderate, Weak
- High resistivity feature, Strong, Moderate, Weak

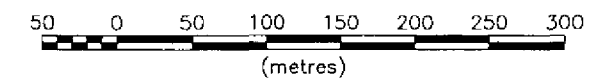
### SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

### MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000

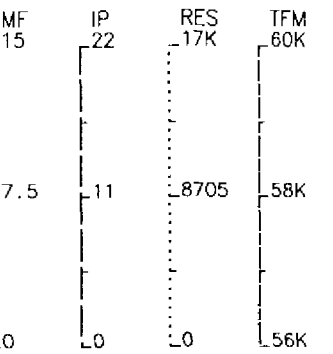
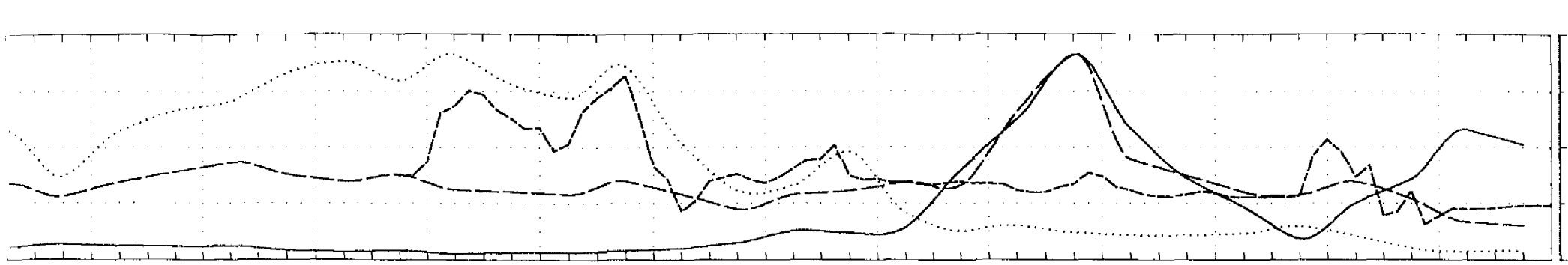
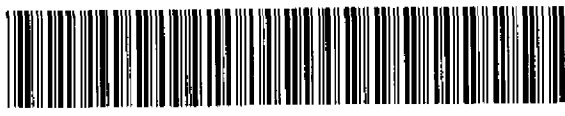


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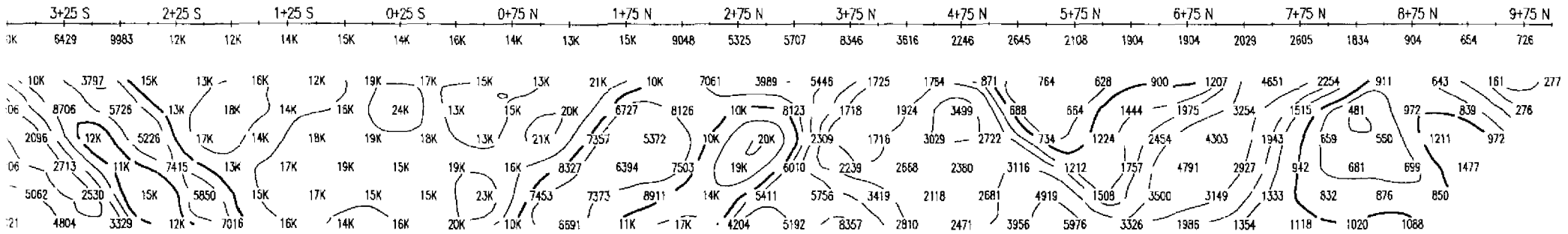
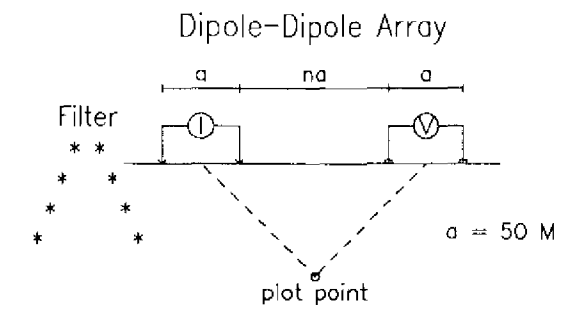
**INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT**  
North Grid, McWilliams & Dana Twps., ON

Processing Date: 00/06/04  
Drawing Number: QG-112-IP-DD-Line 2400 E

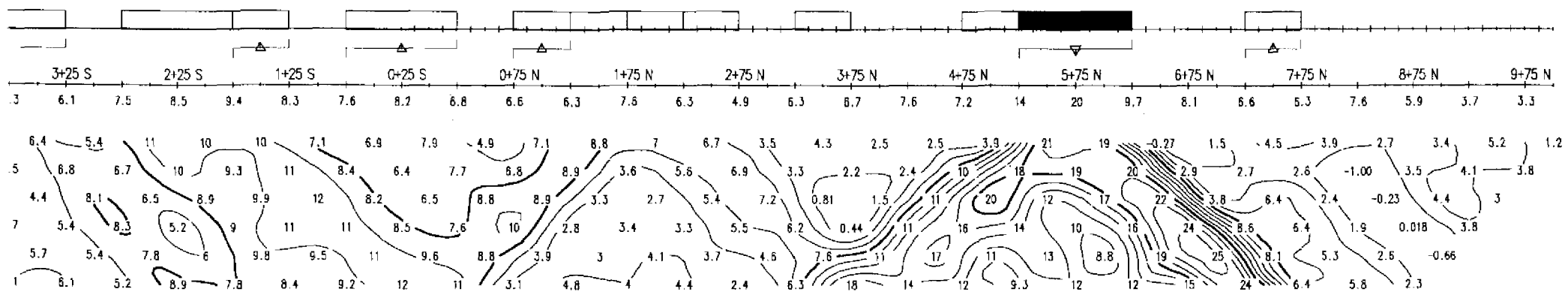
**QUANTEC GEOSCIENCE INC.**



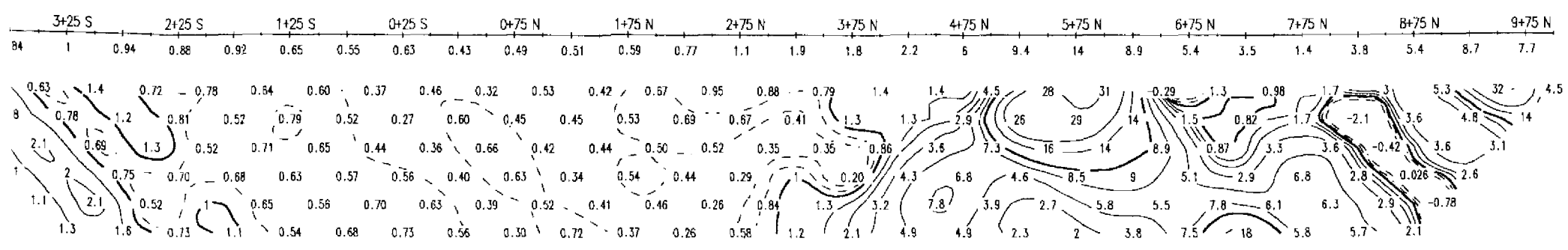
### Line 2800 E



Resistivity  
ohm-metres



Interpretation  
QG:  
Chargeability  
millivolts/volt



Metal Factor  
IP/Resistivity

### INTERPRETATION

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

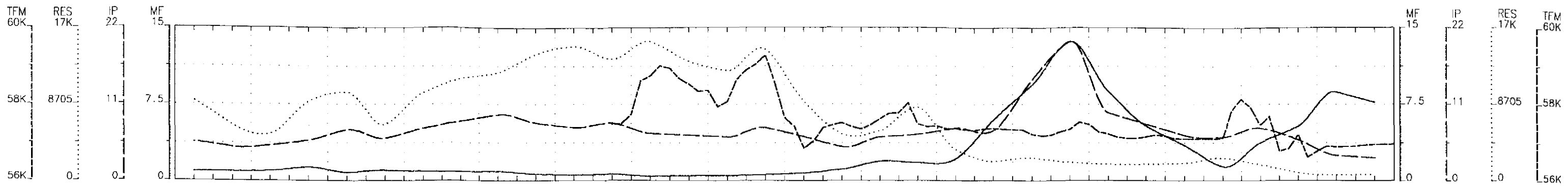
### SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

### MAP SPECIFICATIONS

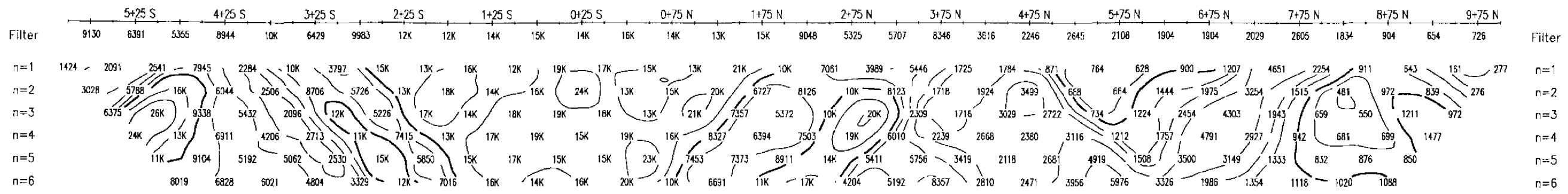
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)  
Scale 1:5000  
50 0 50 100 150 200 250 300  
(metres)

**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
 North Grid, McWilliams & Dana Twps., ON  
 Processing Date: 00/06/04  
 Drawing Number: QG-112-IP-DD-Line 2800 E  
**QUANTEC GEOSCIENCE INC.**



Line 2800E

Resistivity  
ohm-metres



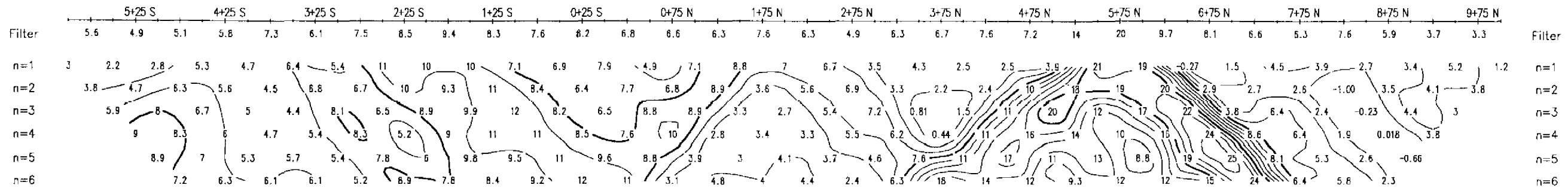
Resistivity  
ohm-metres

Interpretation  
QGI:



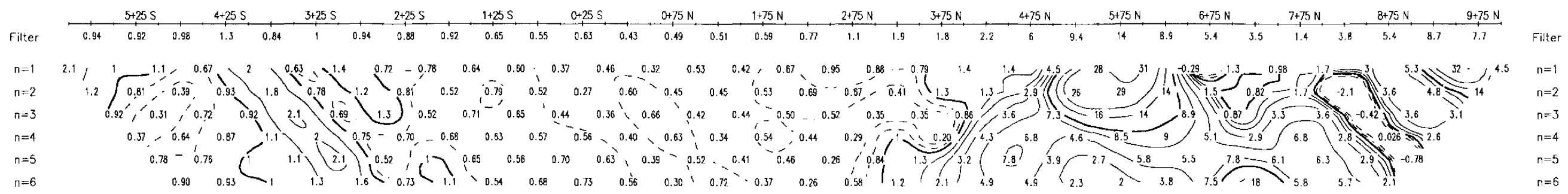
Interpretation  
QGI:

Chargeability  
millivolts/volt



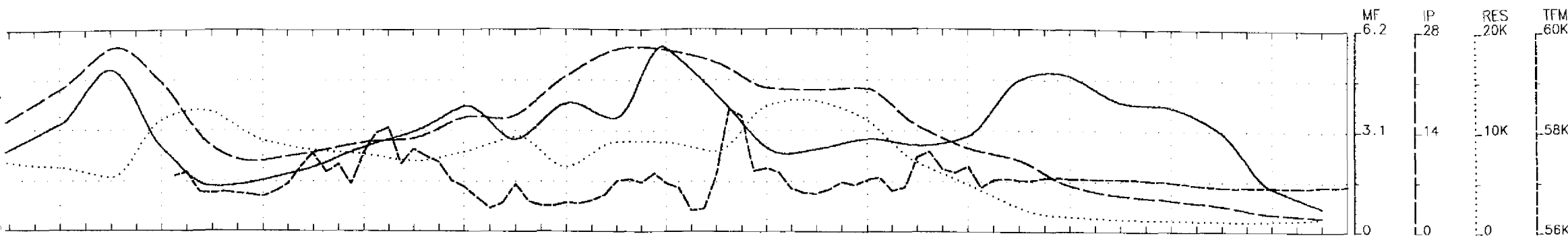
Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity

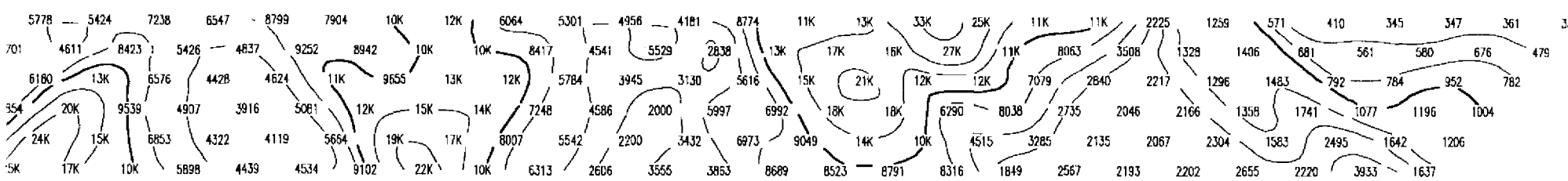


Metal Factor  
IP/Resistivity





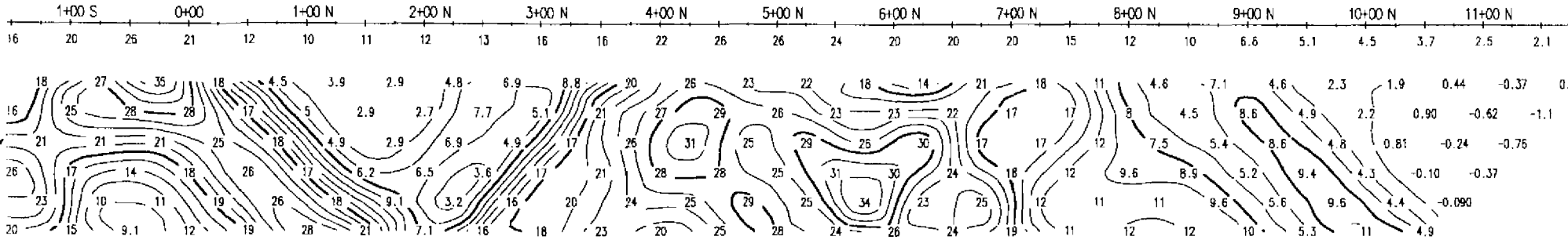
1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N 7+00 N 8+00 N 9+00 N 10+00 N 11+00 N



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

Resistivity  
ohm-metres

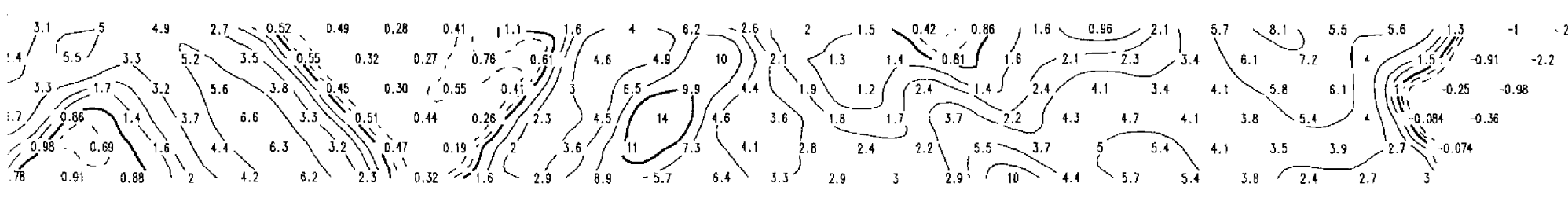
1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N 7+00 N 8+00 N 9+00 N 10+00 N 11+00 N



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

Interpretation  
QGI:  
Chargeability  
millivolts/volt

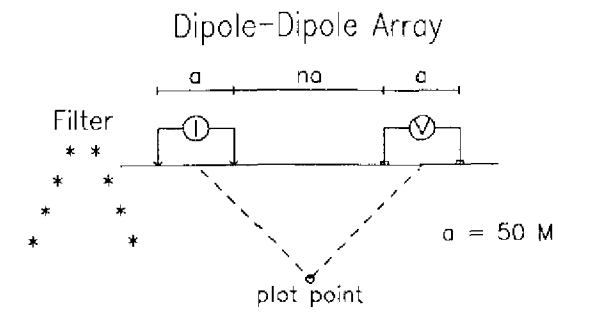
1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N 7+00 N 8+00 N 9+00 N 10+00 N 11+00 N



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

Metal Factor  
IP/Resistivity

Line 3000 E



- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature: Strong, Moderate, Weak
- High resistivity feature: Strong, Moderate, Weak

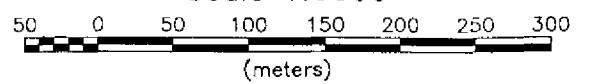
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000



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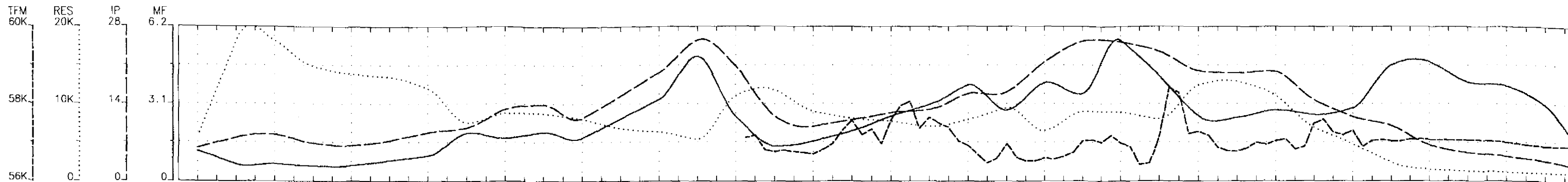
INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
North Grid, McWilliams & Dana Twps., ON

Processing Date: 00/06/04  
Drawing Number: QG-112-IP-DD-Line 3000 E

QUANTEC GEOSCIENCE INC.

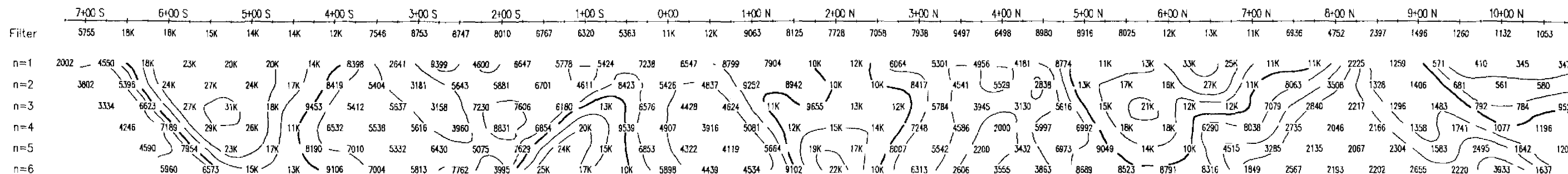






Line 3000E

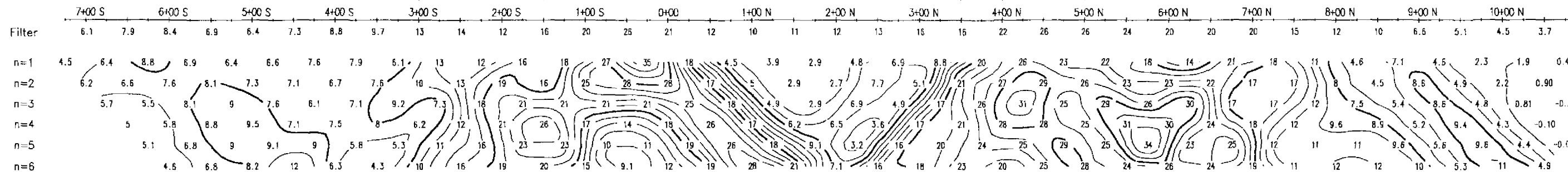
Resistivity  
ohm-metres



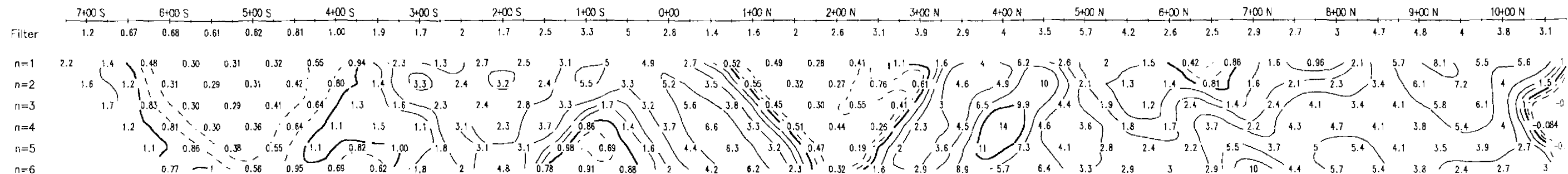
Interpretation  
QGI:

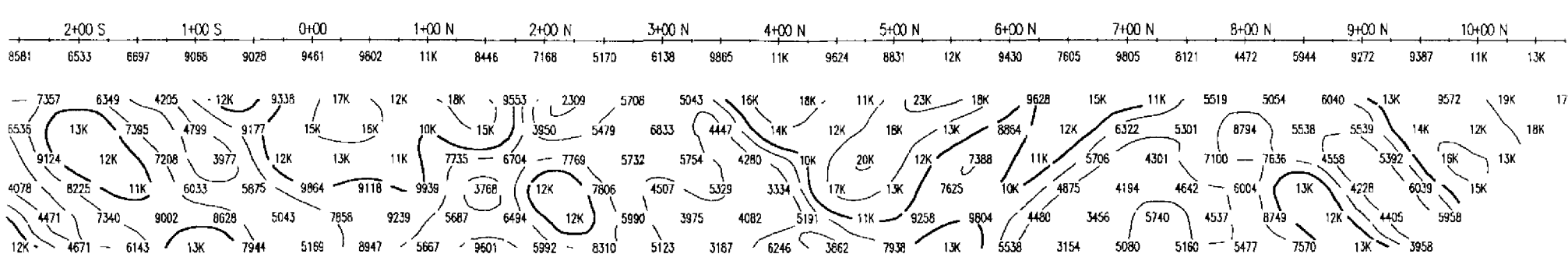
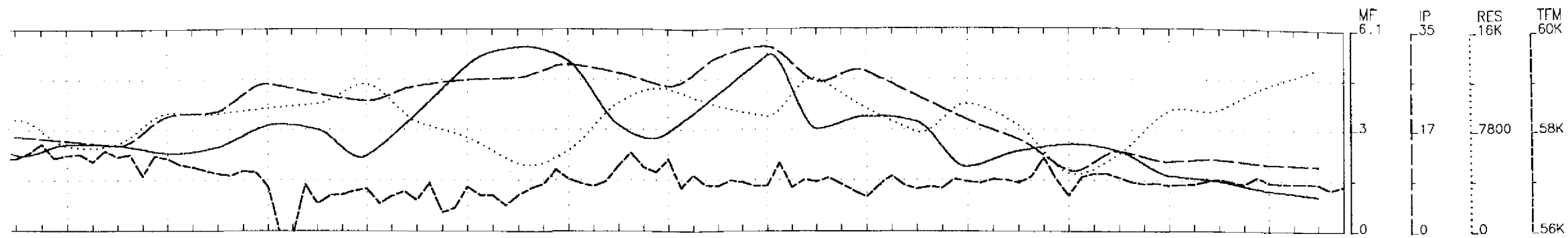


Chargeability  
millivolts/volt



Metal Factor  
IP/Resistivity

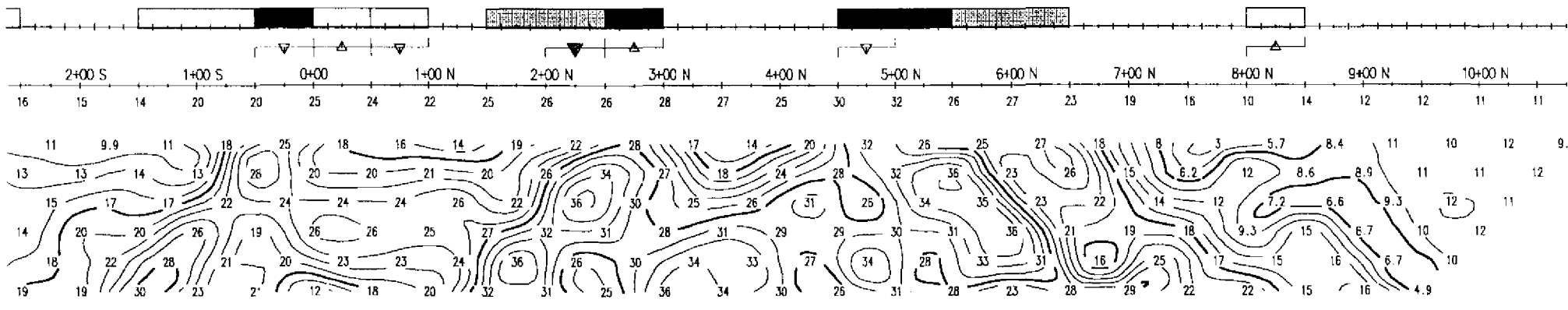




Resistivity  
ohm-metres

Filter

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

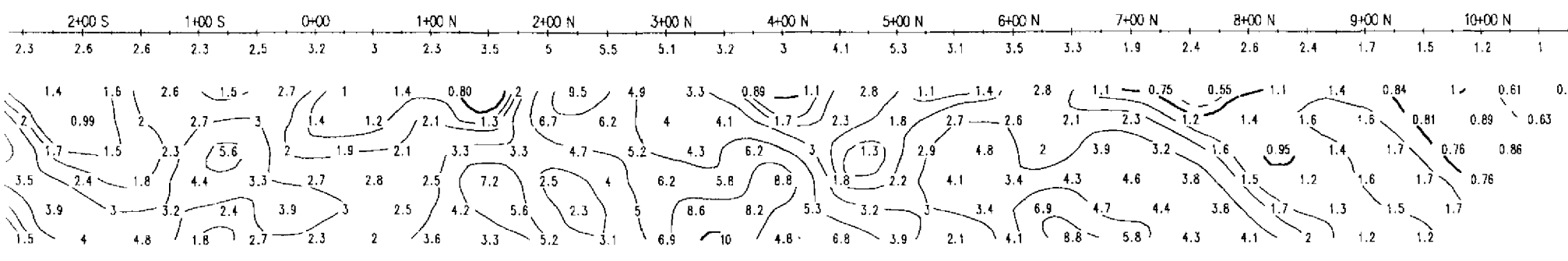


Interpretation  
QGI:

Chargeability  
millivolts/volt

Filter

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

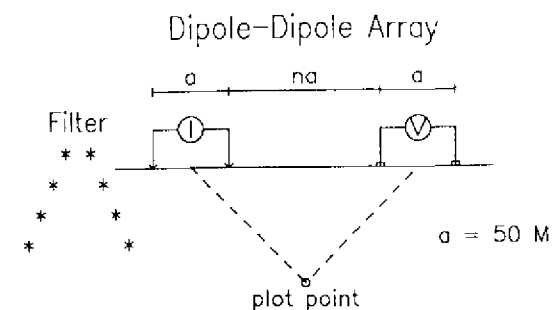


Metal Factor  
IP/Resistivity

Filter

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

Line 3200 E



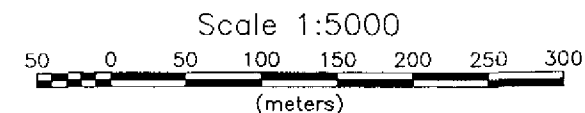
- █ Strong increase in polarization
- ▨ Well defined increase in polarization
- ▤ Poorly defined polarization increase
- ▼ ▼ ▼ Low resistivity feature  
Strong, Moderate, Weak
- ▲ ▲ ▲ High resistivity feature  
Strong, Moderate, Weak

SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)



MUSTANG MINERALS CORPORATION

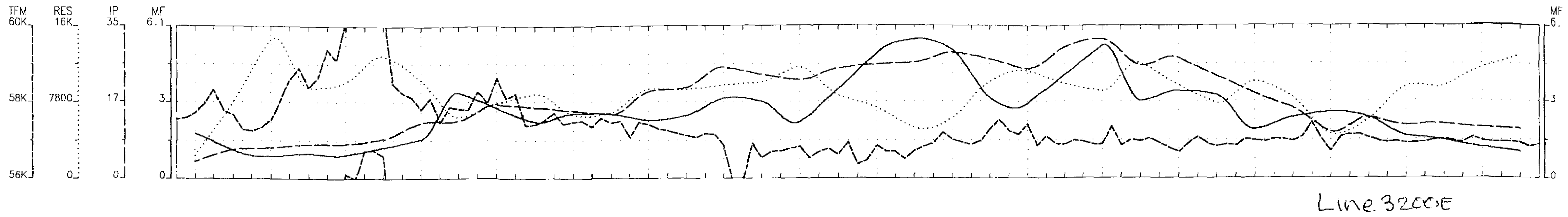
INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT

North Grid, McWilliams & Dana Twps., ON

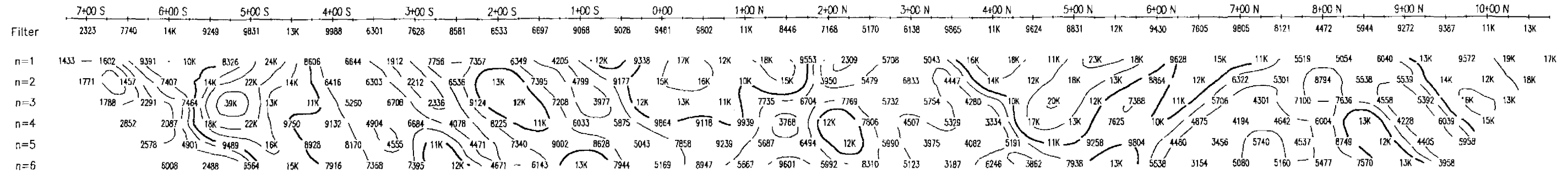
Processing Date: 00/06/04  
Drawing Number: QG-112-IP-DD-Line 3200 E

QUANTEC GEOSCIENCE INC.





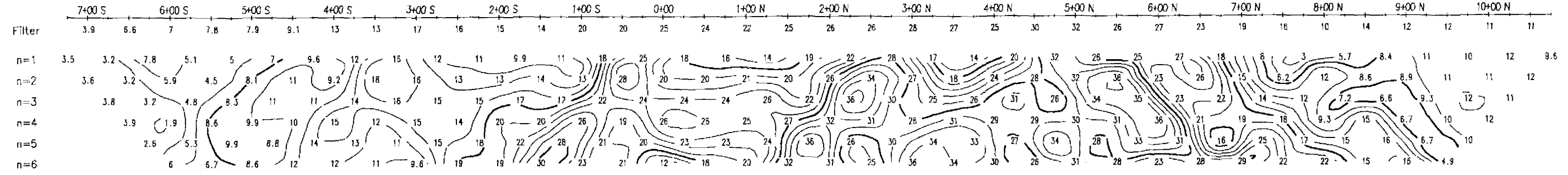
Resistivity  
ohm-metres



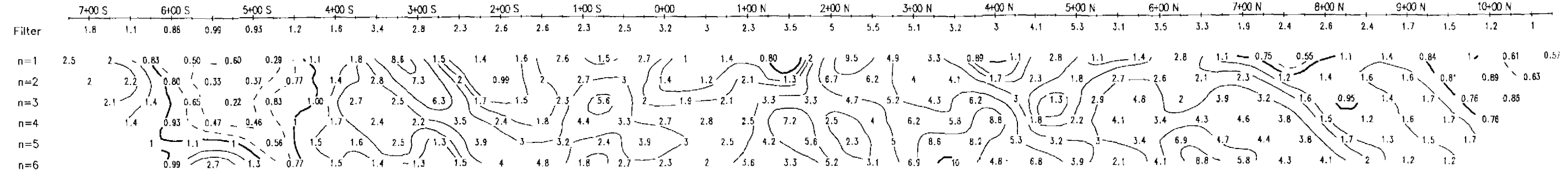
Interpretation  
QGI:

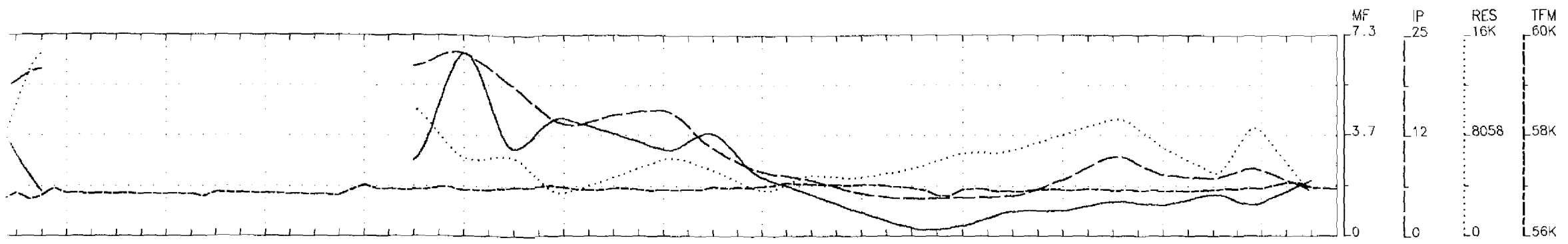


Chargeability  
millivolts/volt

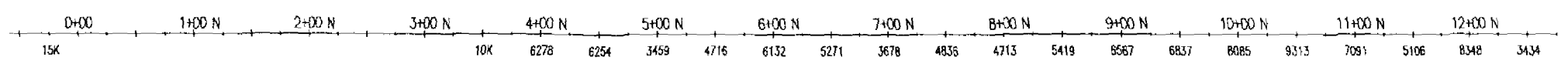
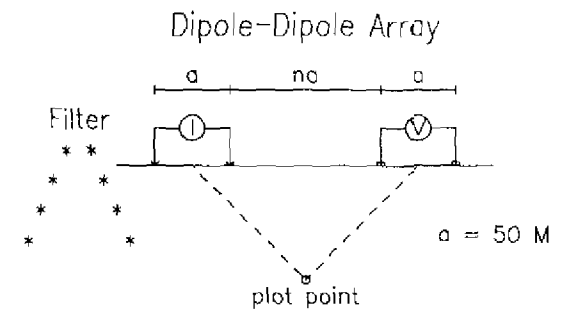


Metal Factor  
IP/Resistivity

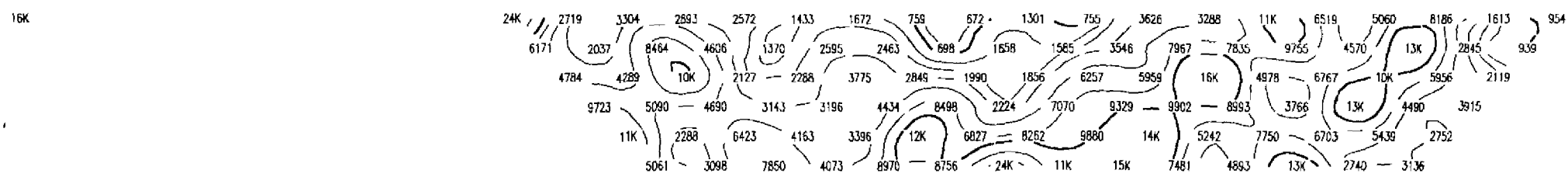




Line 3400 E

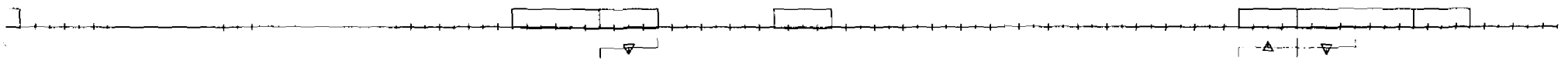


Resistivity  
ohm-metres

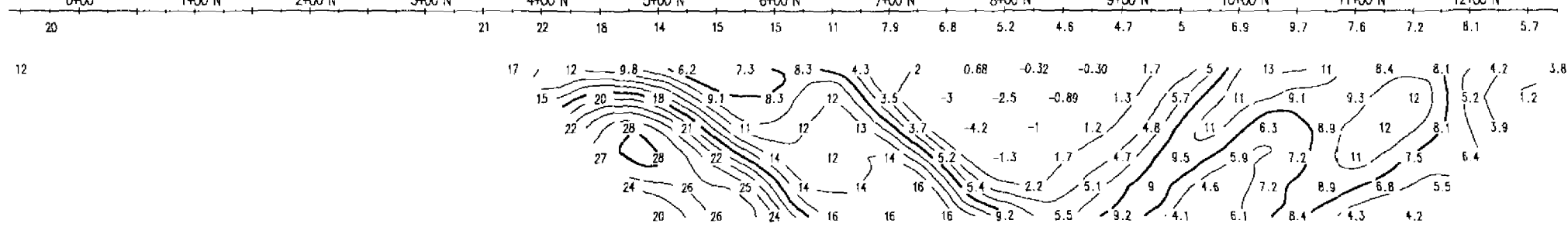


Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6

Interpretation  
QGI:



Chargeability  
millivolts/volt



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

Metal Factor  
IP/Resistivity

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

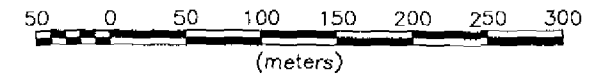
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decoy Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

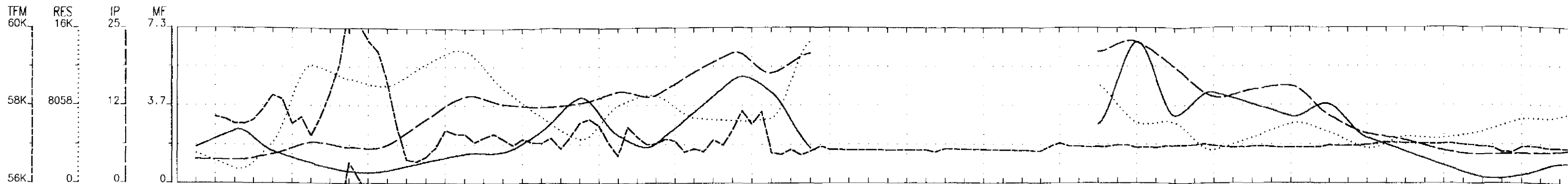
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10,...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10,...)

Scale 1:5000

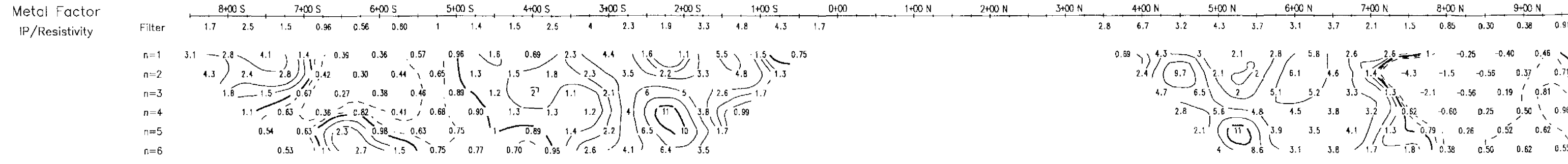
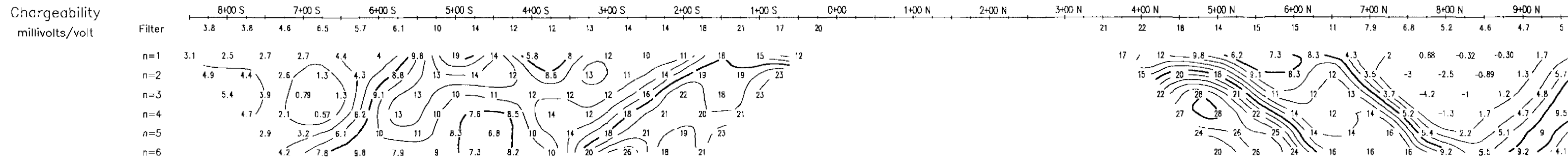
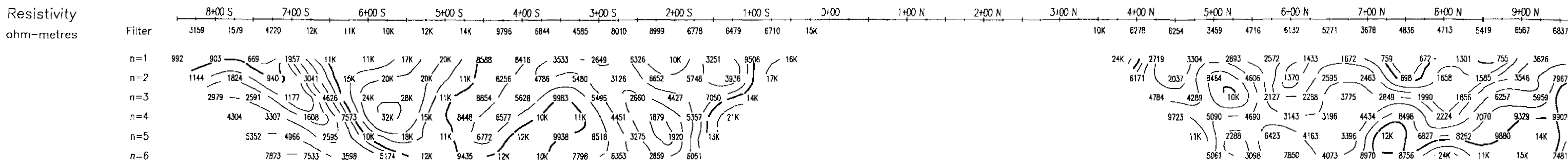


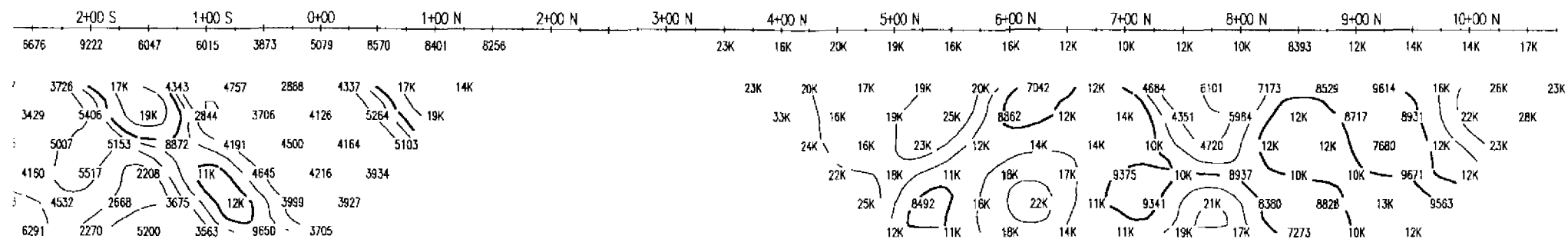
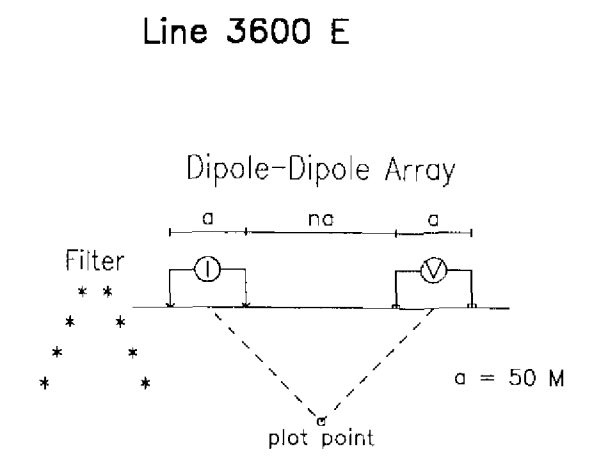
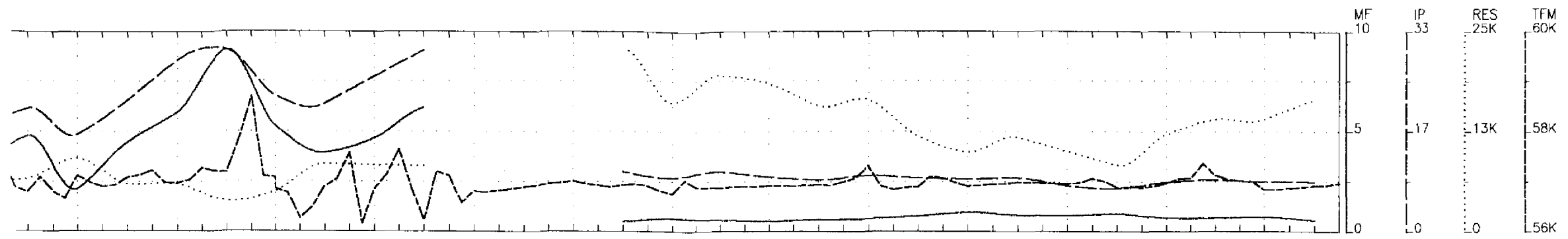
**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
 North Grid, McWilliams & Dana Twps., ON  
 Processing Date: 00/06/04  
 Drawing Number: QG-112-IP-DD-Line 3400 E  
**QUANTEC GEOSCIENCE INC.**



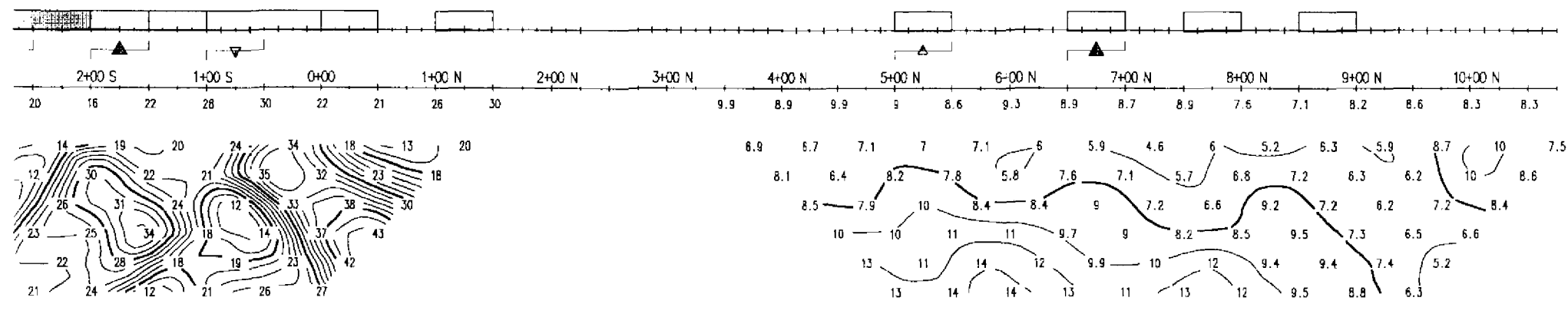


Line 3400 E

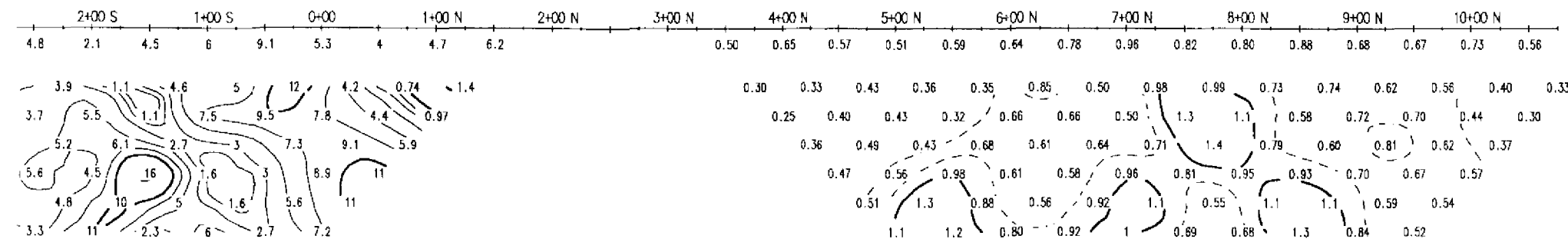




Resistivity  
ohm-metres



Interpretation  
QG:  
Chargeability  
millivolts/volt



Metal Factor  
IP/Resistivity

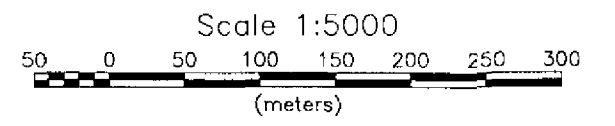
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

#### SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

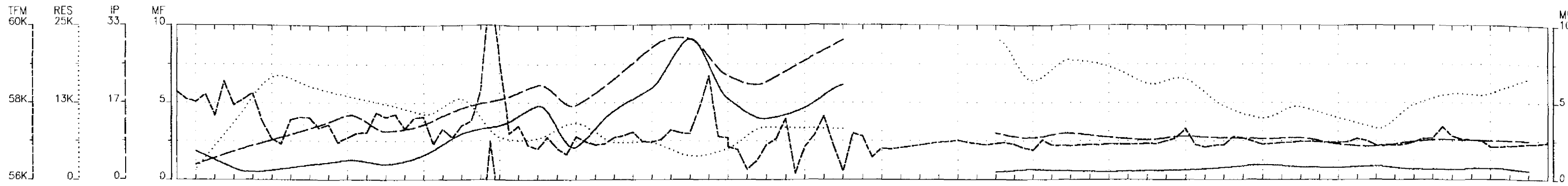
#### MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)



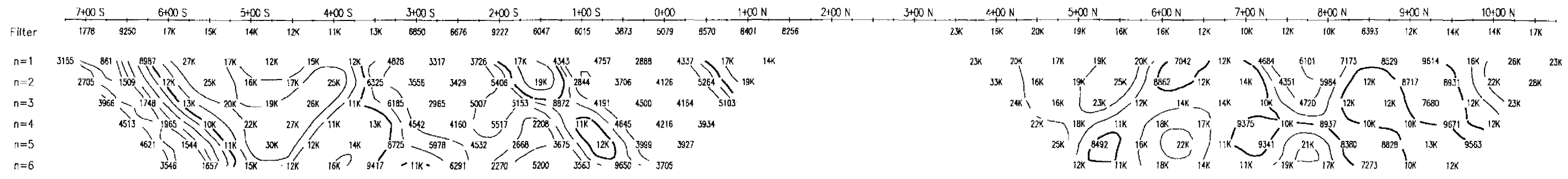
**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
 North Grid, McWilliams & Dana Twps., ON  
 Processing Date: 00/06/04  
 Drawing Number: QG-112-IP-DD-Line 3600 E  
**QUANTEC GEOSCIENCE INC.**



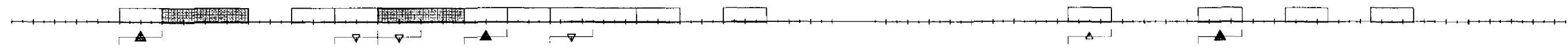


Line 3600E

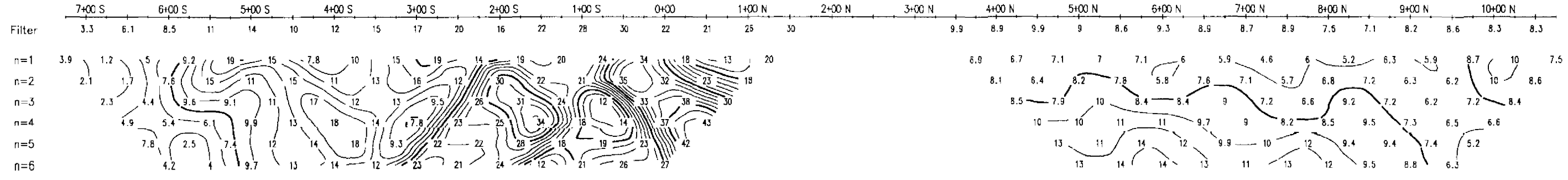
Resistivity  
ohm-metres



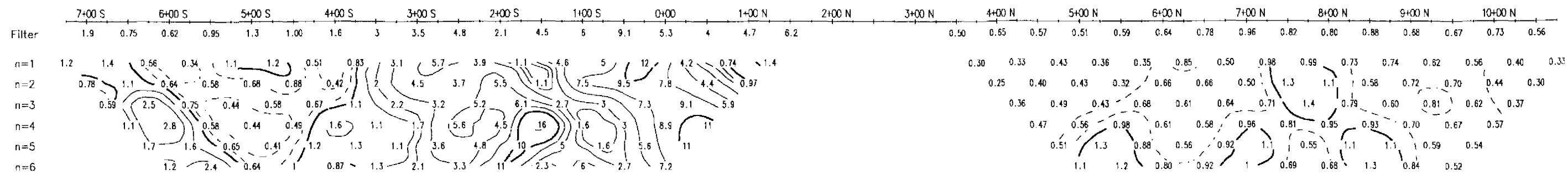
Interpretation  
QGI:

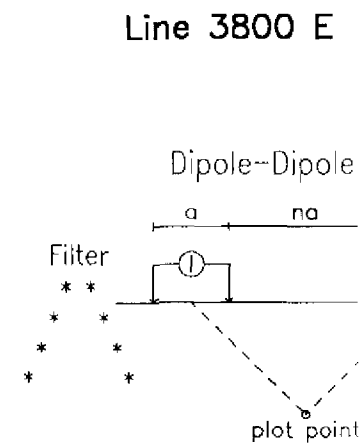
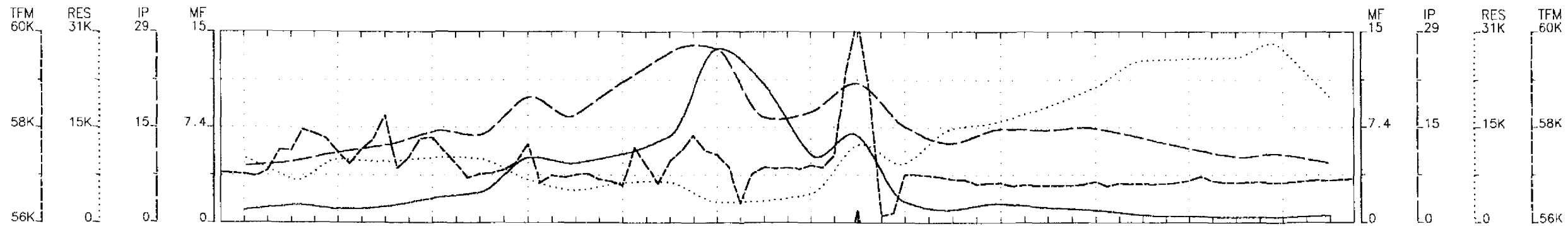


Chargeability  
millivolts/volt

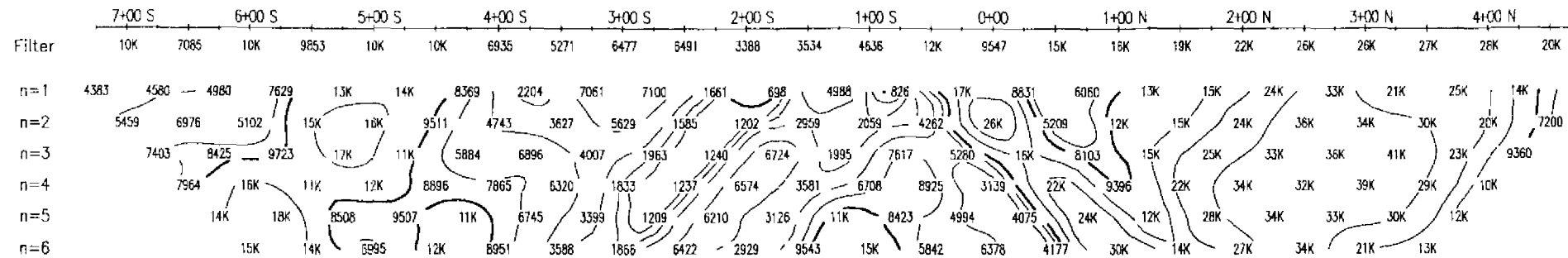


Metal Factor  
IP/Resistivity

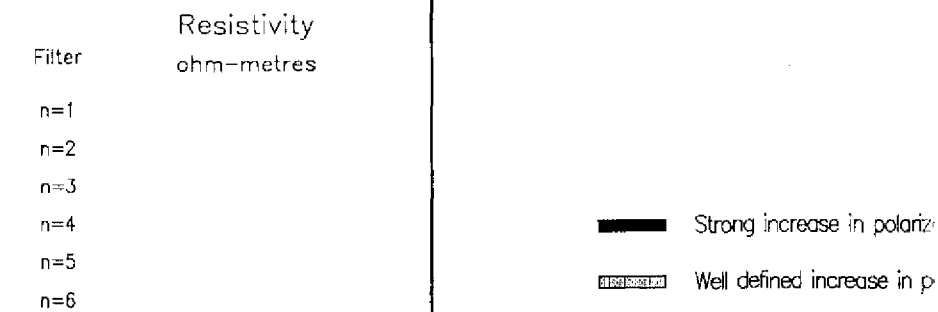




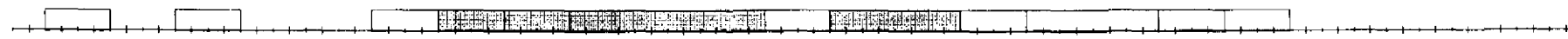
Resistivity  
ohm-metres



Resistivity  
ohm-metres



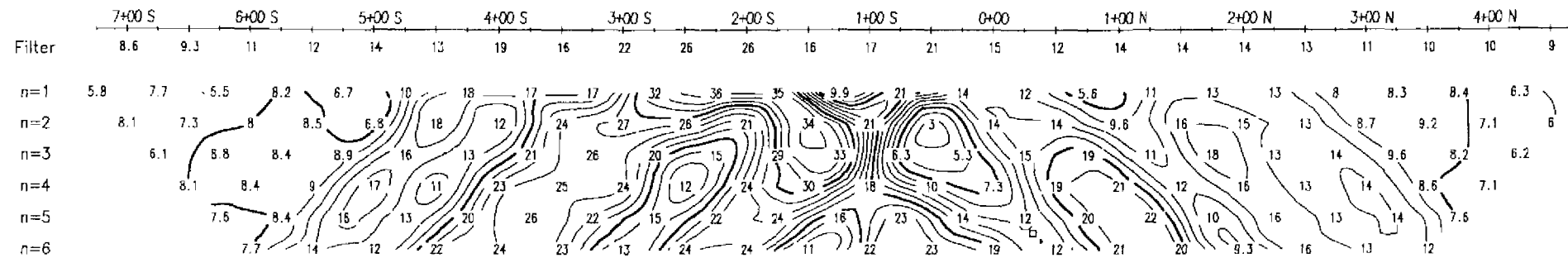
Interpretation  
QGI:



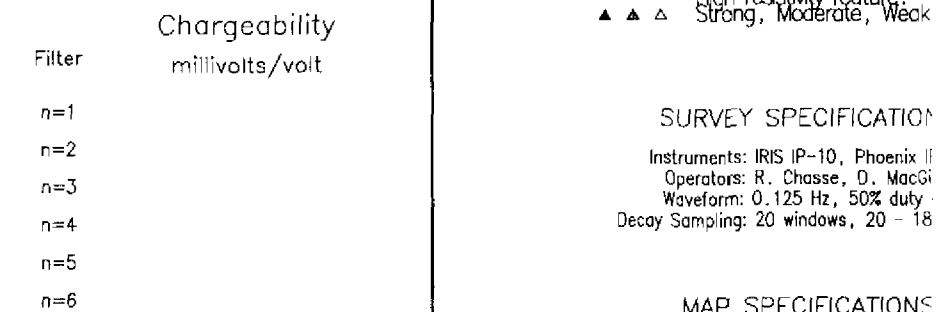
Interpretation  
QGI:



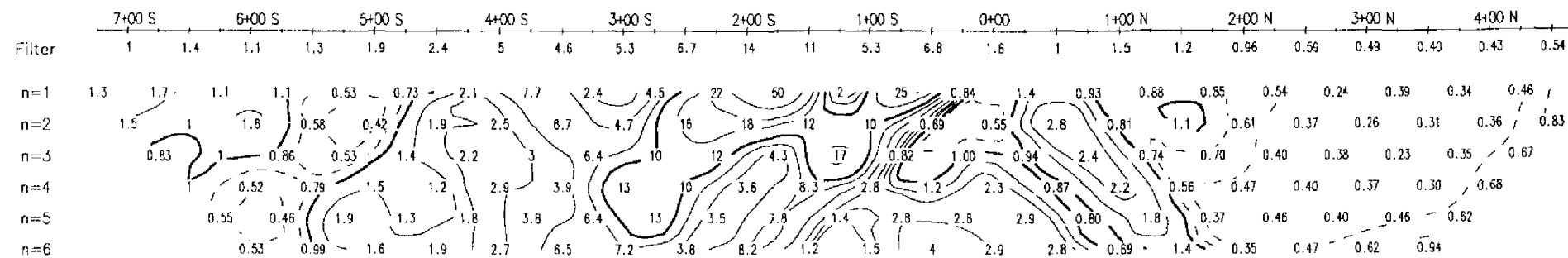
Chargeability  
millivolts/volt



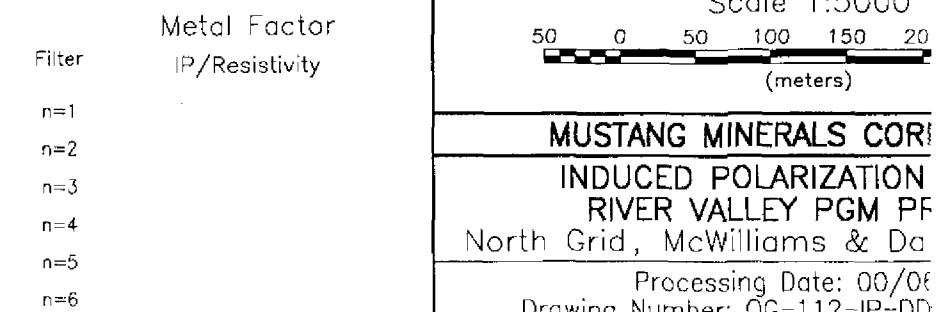
Chargeability  
millivolts/volt



Metal Factor  
IP/Resistivity



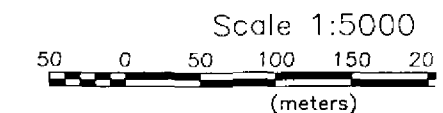
Metal Factor  
IP/Resistivity



- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization
- Low resistivity feature, Strong, Moderate, Weak
- High resistivity feature, Strong, Moderate, Weak

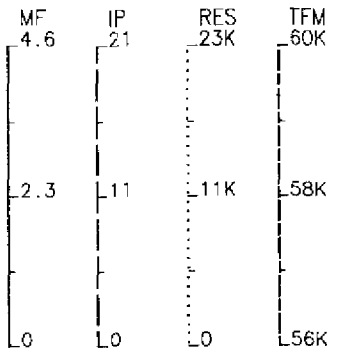
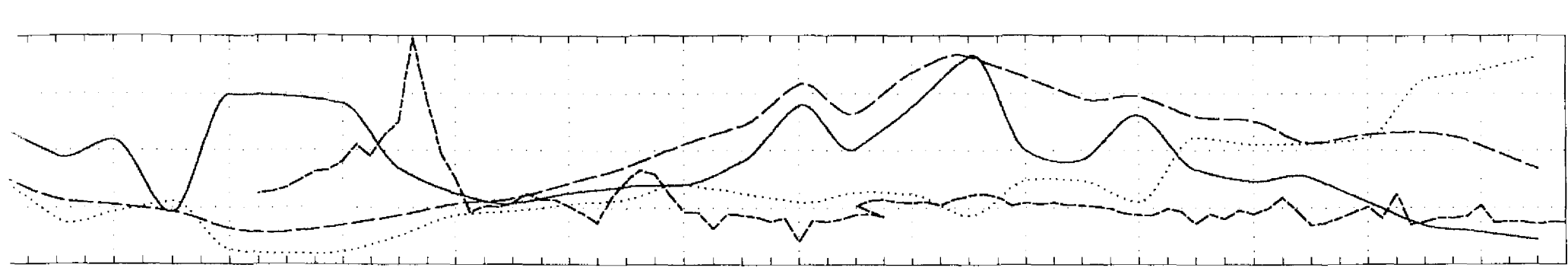
**SURVEY SPECIFICATION**  
 Instruments: IRIS IP-10, Phoenix II  
 Operators: R. Chasse, D. MacGi  
 Waveform: 0.125 Hz, 50% duty  
 Decay Sampling: 20 windows, 20 - 18

**MAP SPECIFICATIONS**  
 Resistivity: Logarithmic Contours (1, 1.5, 2, 3)  
 Chargeability: Linear Contours (2 mV/V)  
 Metal Factor: Logarithmic Contours (1, 1.5, 2)

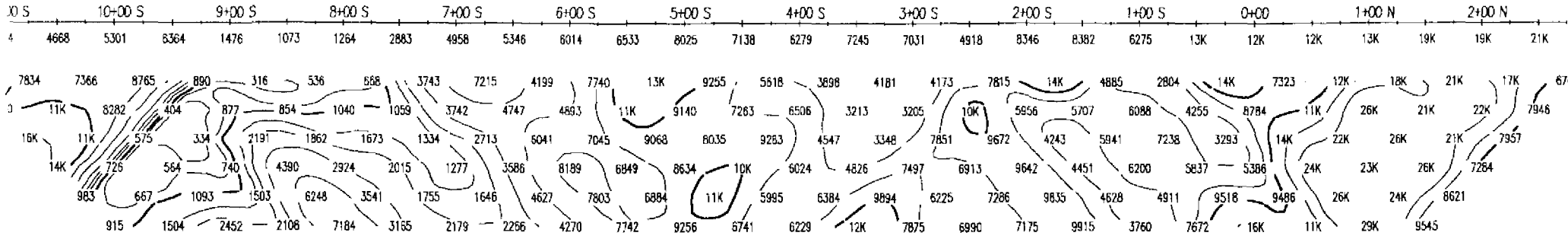
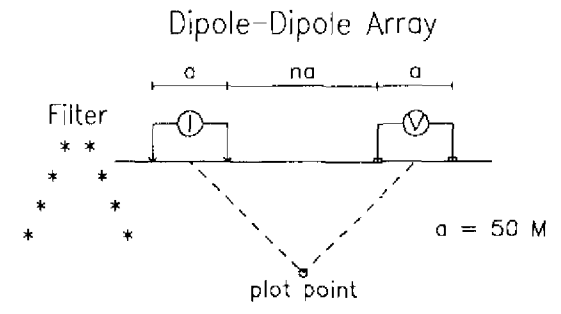


**MUSTANG MINERALS CORP**  
**INDUCED POLARIZATION**  
**RIVER VALLEY PGM PF**  
 North Grid, McWilliams & Da  
 Processing Date: 00/06  
 Drawing Number: QG-112-IP-DD  
**QUANTEC GEOSCIENC**



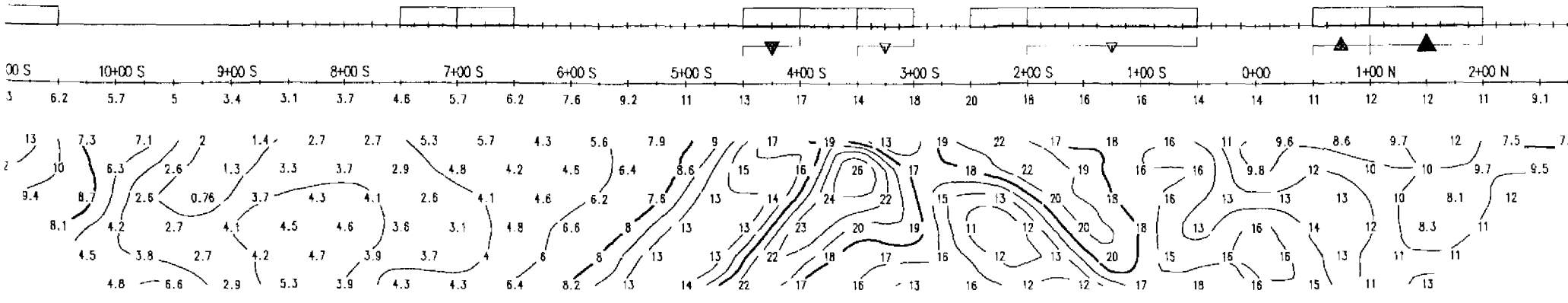


Line 4200 E



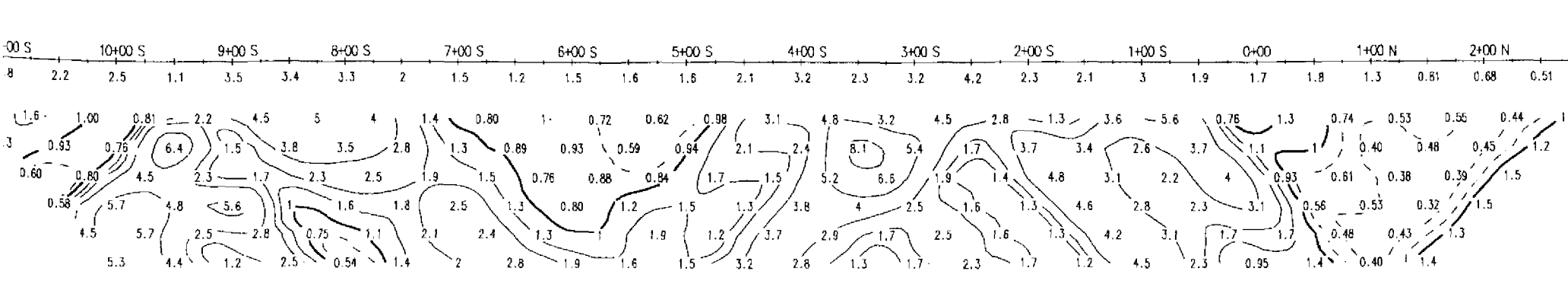
Resistivity  
ohm-metres

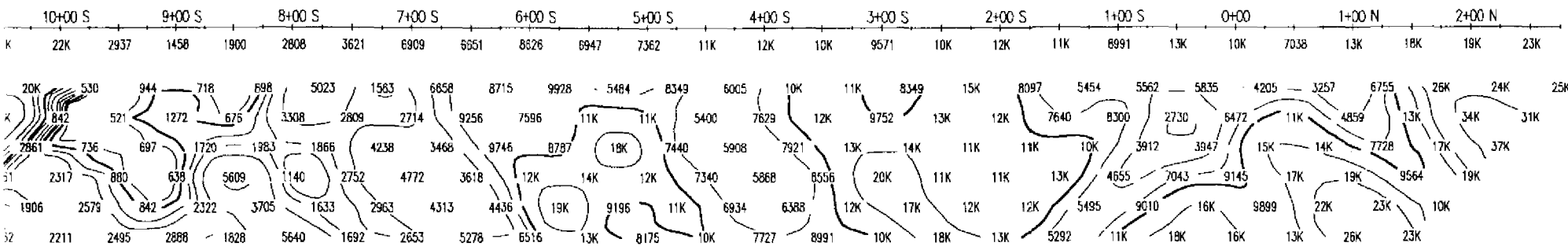
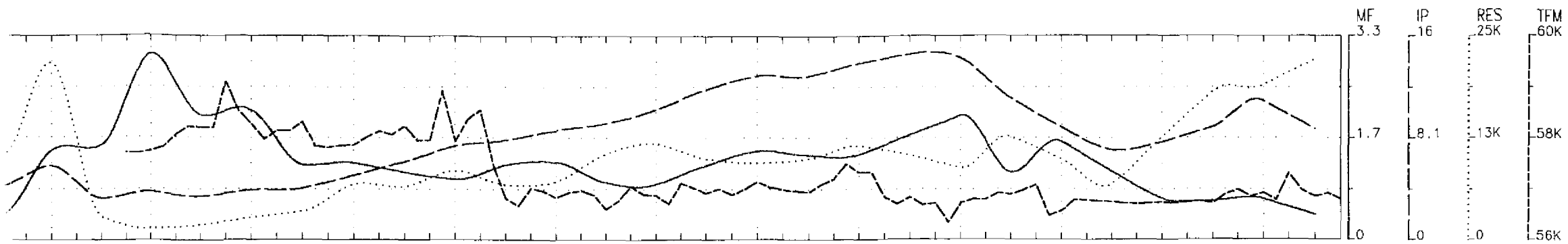
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



Interpretation  
QGI:

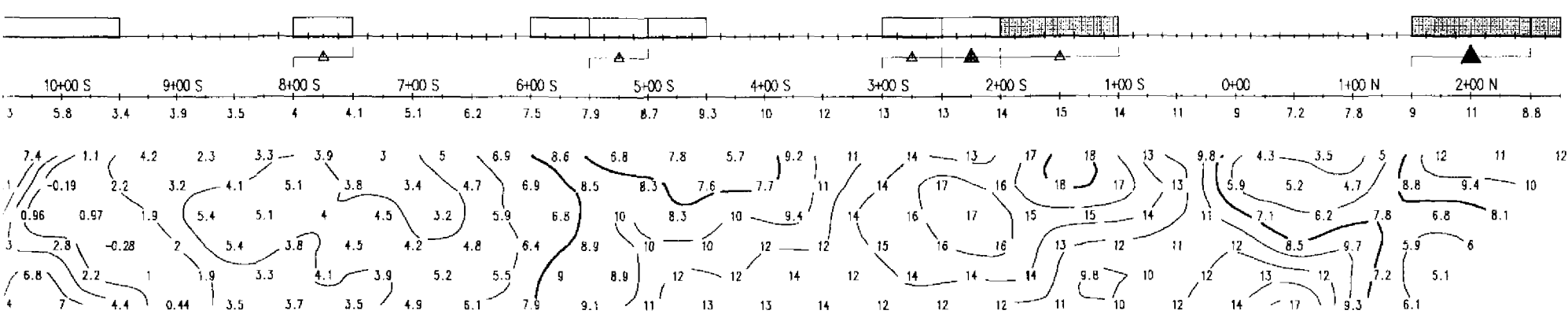
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6





Resistivity  
ohm-metres

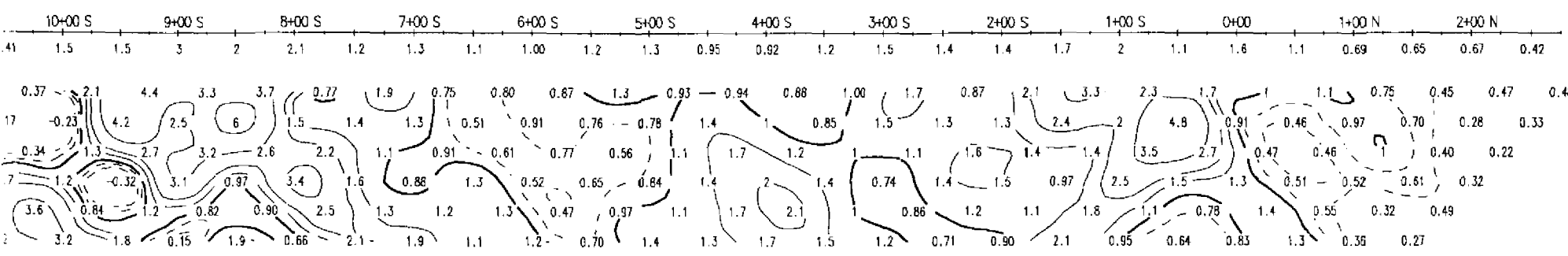
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



Interpretation  
QGI:

Chargeability  
millivolts/volt

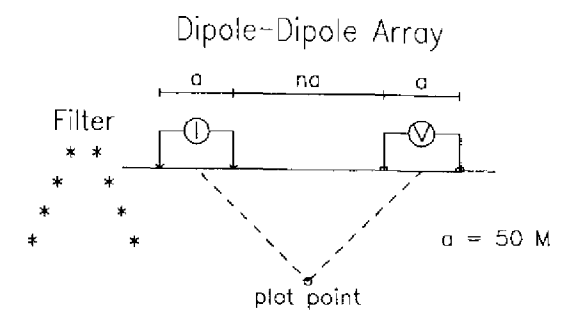
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



Metal Factor  
IP/Resistivity

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

Line 4400 E



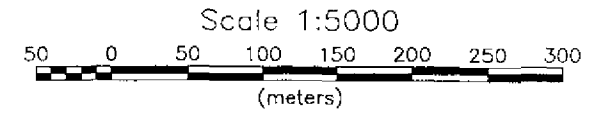
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)



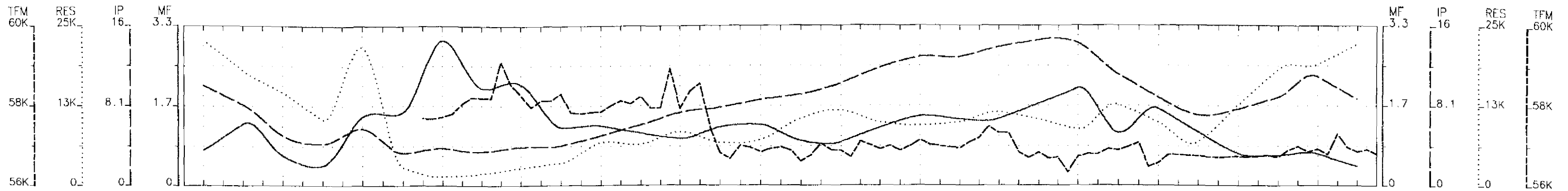
MUSTANG MINERALS CORPORATION

INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
North Grid, McWilliams & Dana Twps., ON

Processing Date: 00/06/04  
Drawing Number: QG-112-IP-DD-Line 4400 E

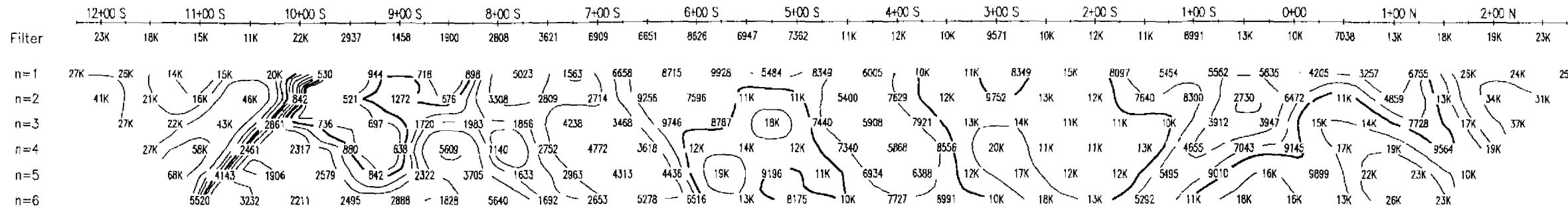
QUANTEC GEOSCIENCE INC.





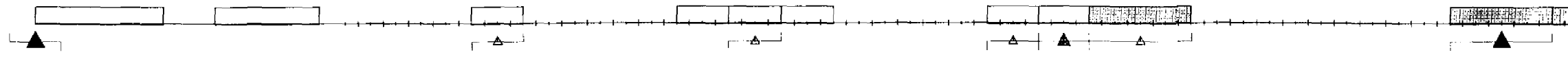
LINE 4400E

Resistivity  
ohm-metres



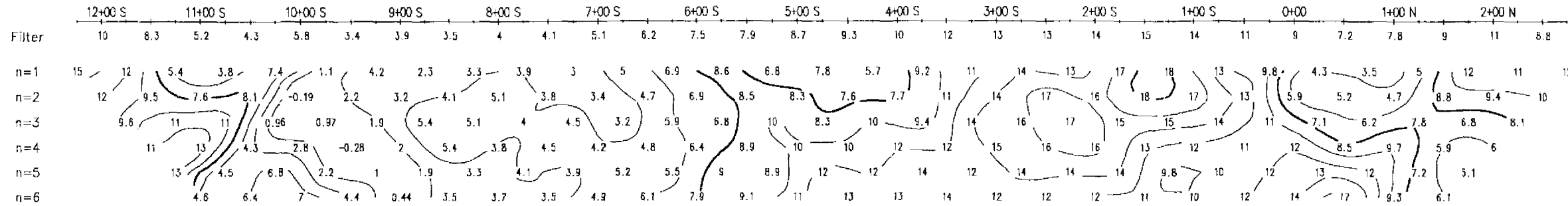
Resistivity  
ohm-metres

Interpretation  
OGI:



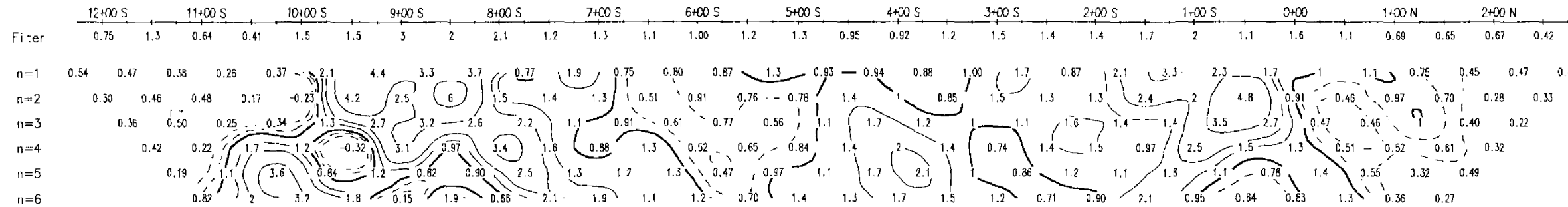
Interpretation  
OGI:

Chargeability  
millivolts/volt



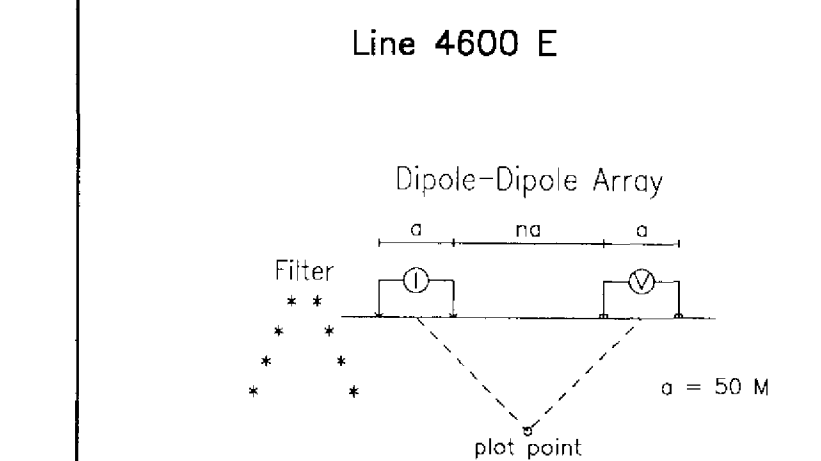
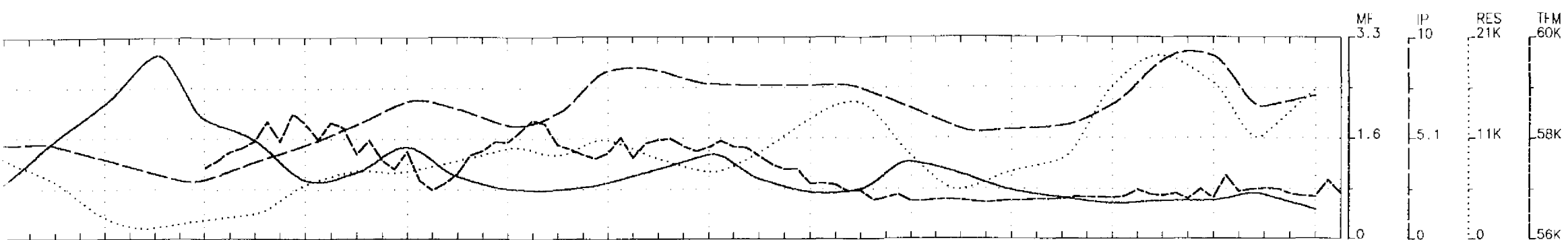
Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity

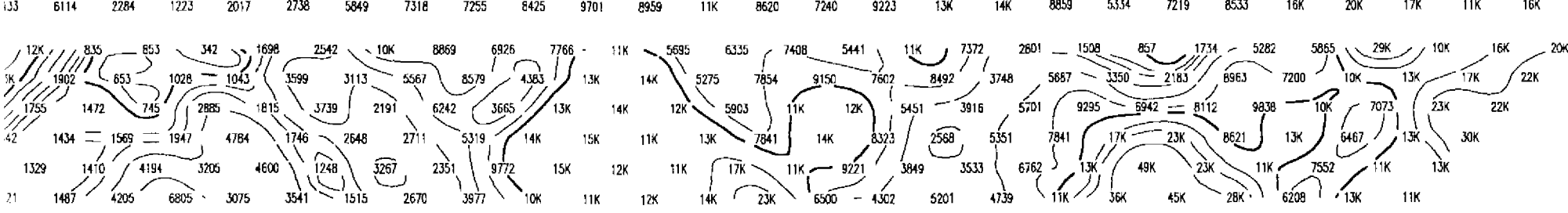


Metal Factor  
IP/Resistivity

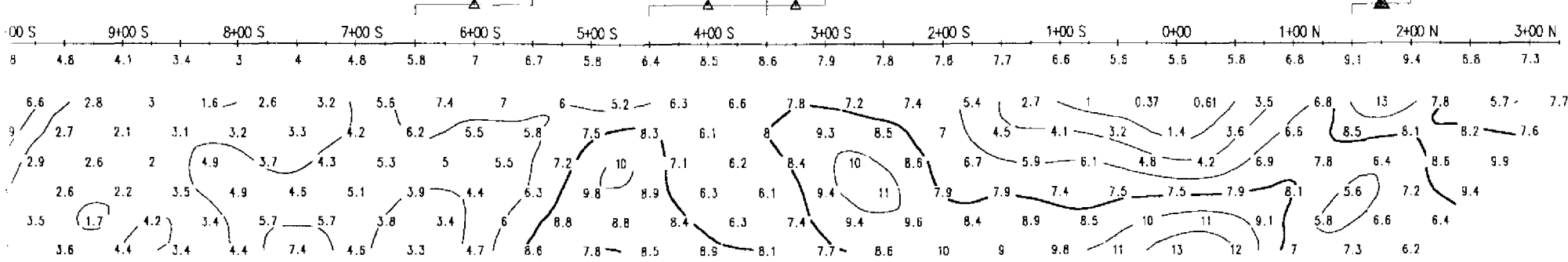




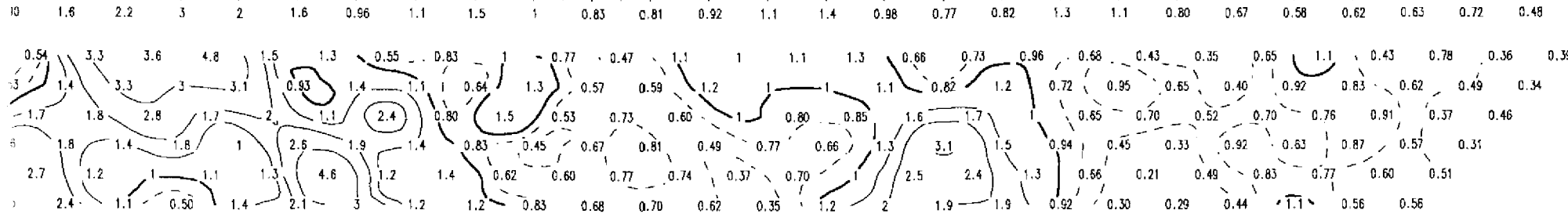
0+00 S 9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N



0+00 S 9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N



0+00 S 9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N



Resistivity  
ohm-metres

Interpretation  
QGI:

Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity

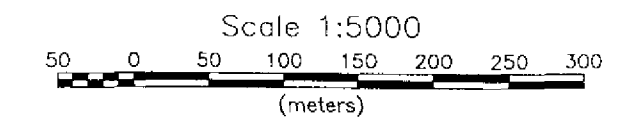
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

**SURVEY SPECIFICATIONS**

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

**MAP SPECIFICATIONS**

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)



**MUSTANG MINERALS CORPORATION**

**INDUCED POLARIZATION SURVEY**

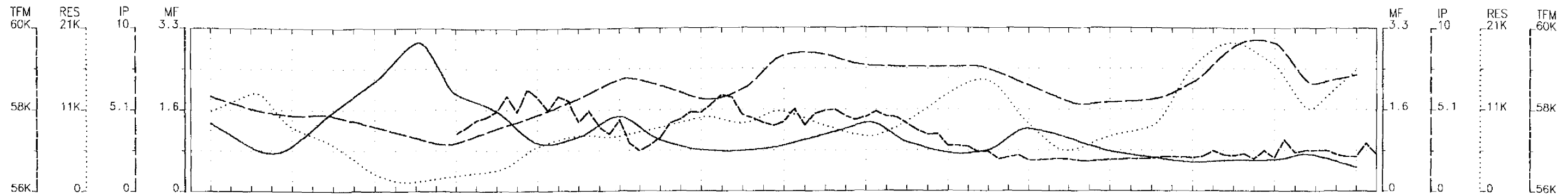
**RIVER VALLEY PGM PROJECT**

North Grid, McWilliams & Dana Twps., ON

Processing Date: 00/06/04  
Drawing Number: QG-112-IP-DD-Line 4600 E

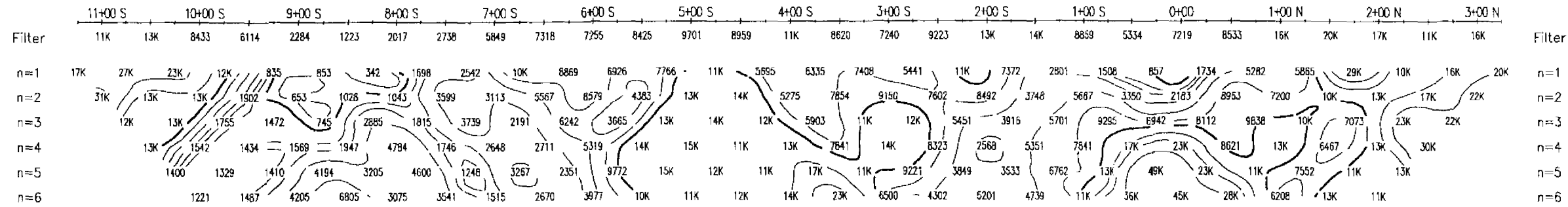
**QUANTEC GEOSCIENCE INC.**





LINE 4600E

Resistivity  
ohm-metres



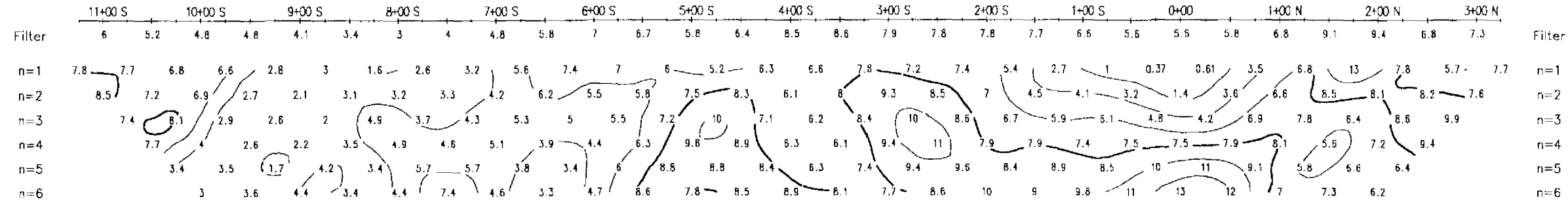
Resistivity  
ohm-metres

Interpretation  
QGI:



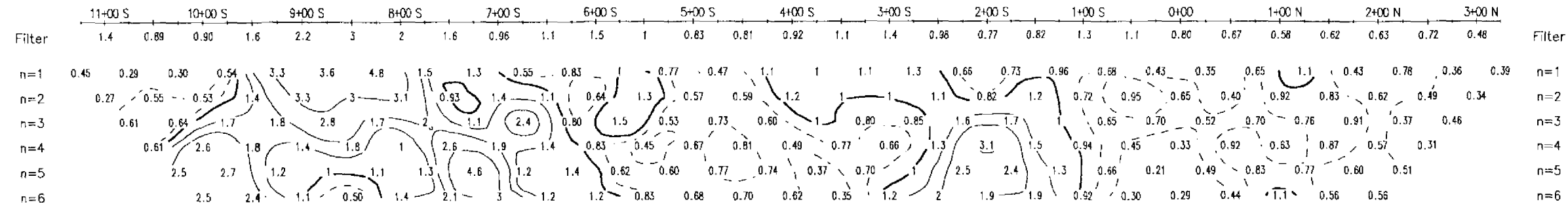
Interpretation  
QGI:

Chargeability  
millivolts/volt



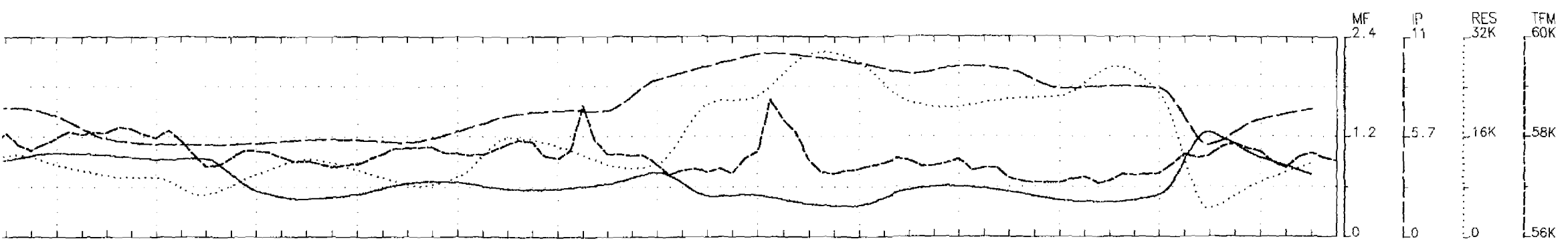
Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity

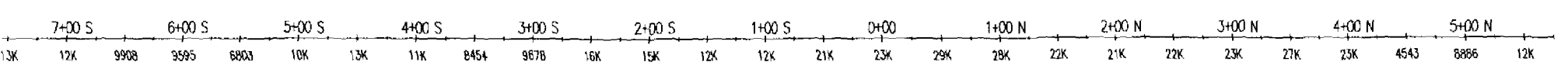
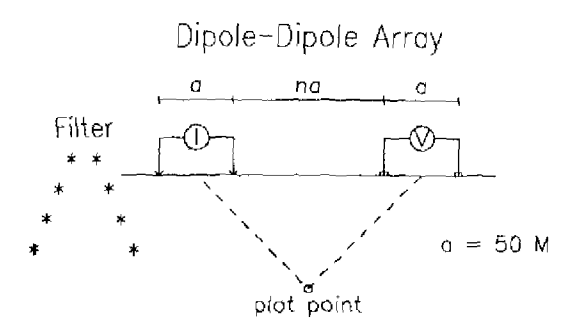


Metal Factor  
IP/Resistivity

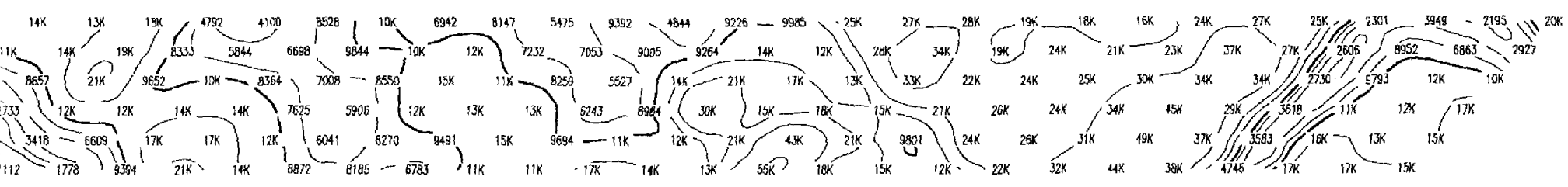




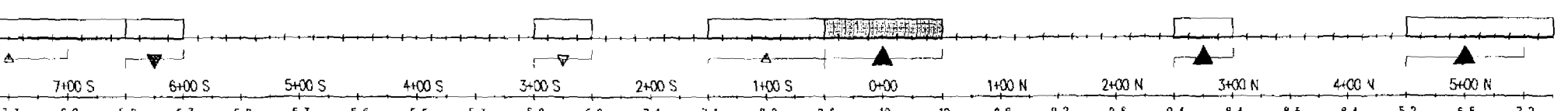
Line 4800 E



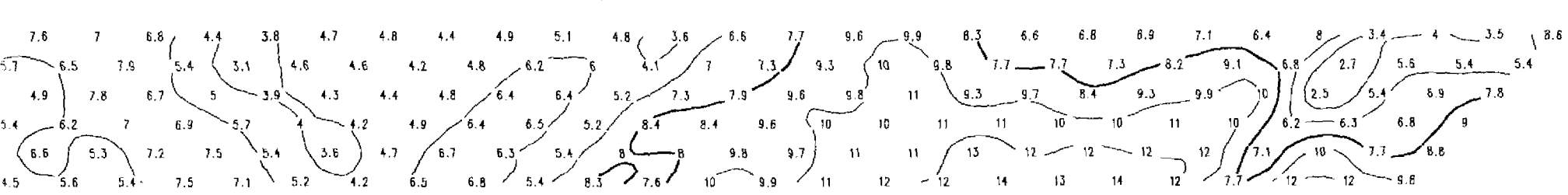
Resistivity  
ohm-metres



Interpretation  
QGI:



Chargeability  
millivolts/volt



Metal Factor  
IP/Resistivity

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature: Strong, Moderate, Weak
- High resistivity feature: Strong, Moderate, Weak

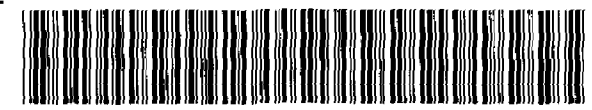
SURVEY SPECIFICATIONS

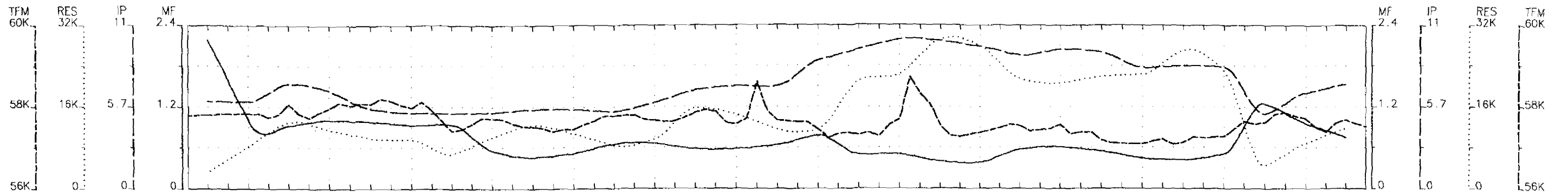
Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decoy Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)  
Scale 1:5000  
50 0 50 100 150 200 250 300 (meters)

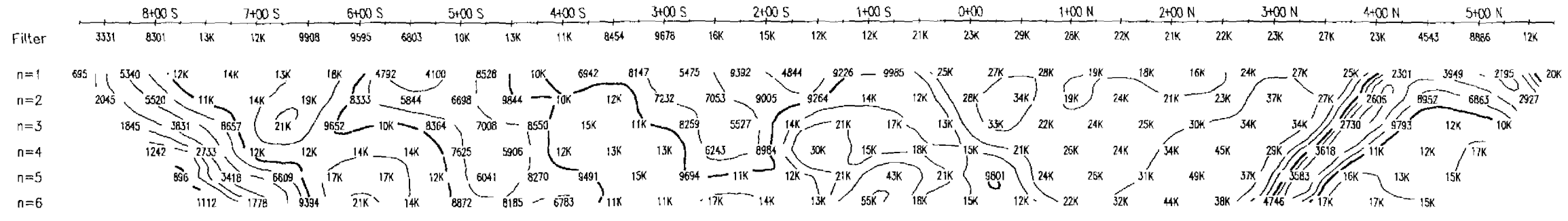
**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
 North Grid, McWilliams & Dana Twps., ON  
 Processing Date: 00/06/04  
 Drawing Number: QG-112-IP-DD-Line 4800 E  
**QUANTEC GEOSCIENCE INC.**





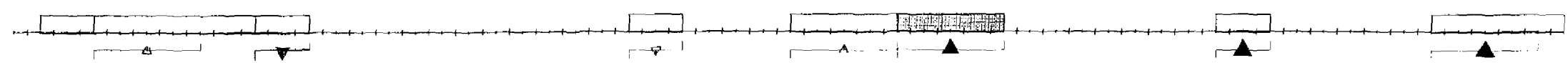
LINE 4800E

Resistivity  
ohm-metres



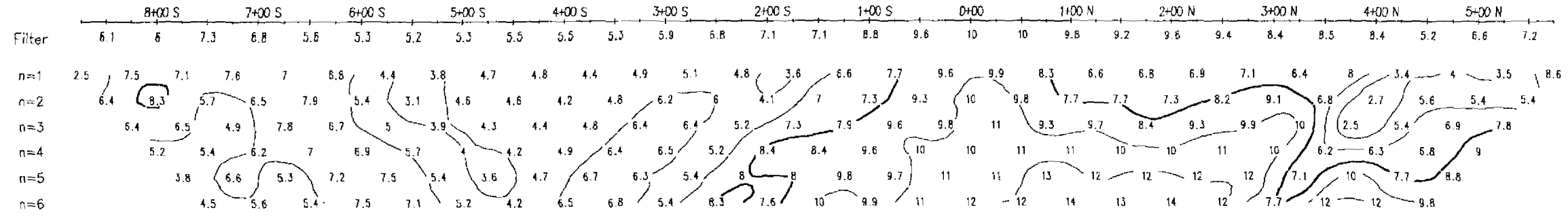
Resistivity  
ohm-metres

Interpretation  
QGI:



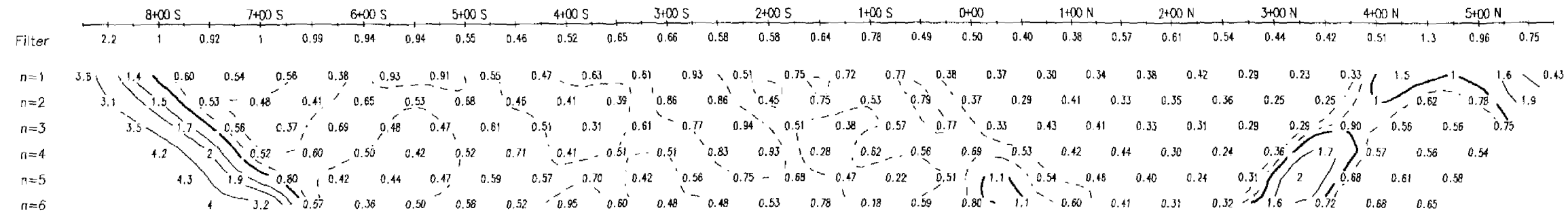
Interpretation  
QGI:

Chargeability  
millivolts/volt



Chargeability  
millivolts/volt

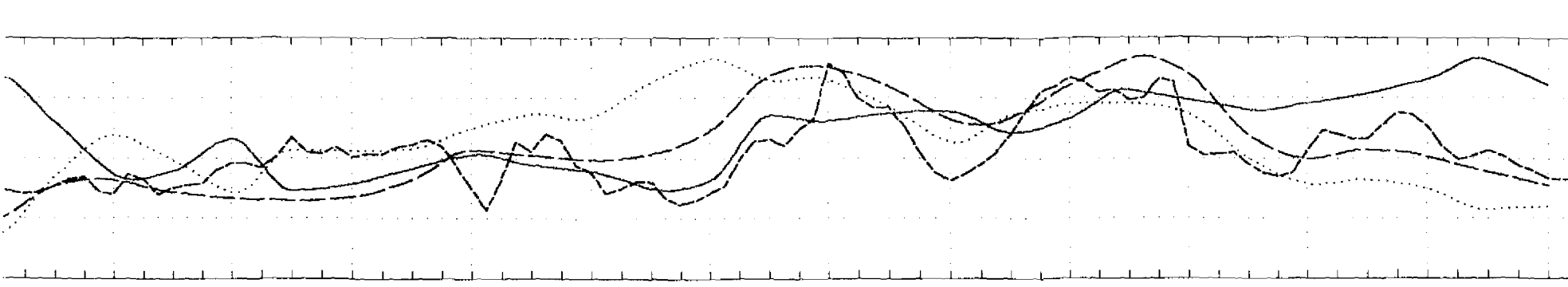
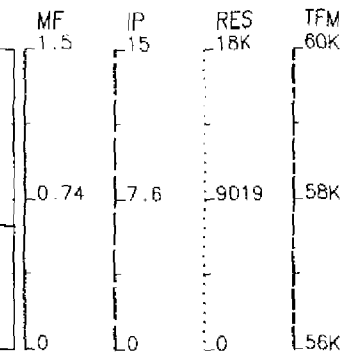
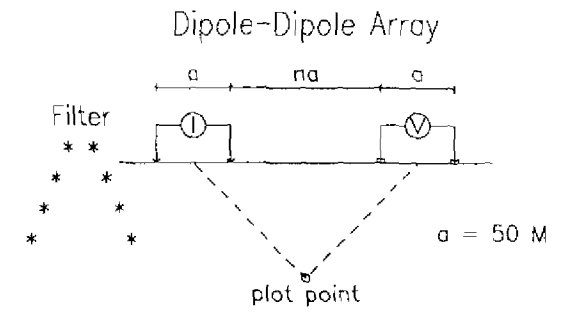
Metal Factor  
IP/Resistivity



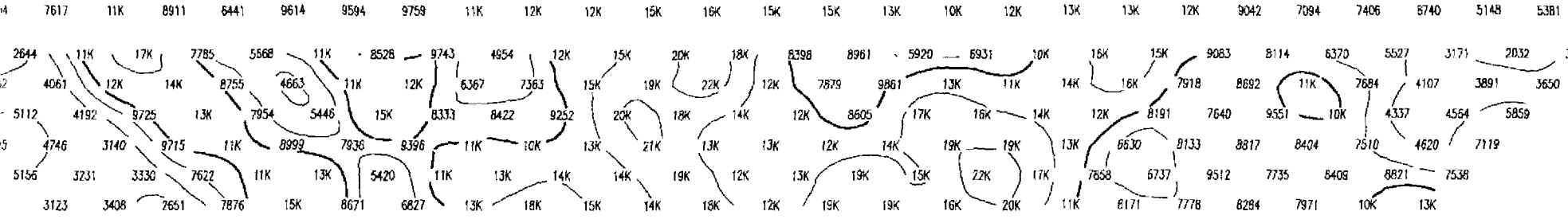
Metal Factor  
IP/Resistivity



Line 5000 E



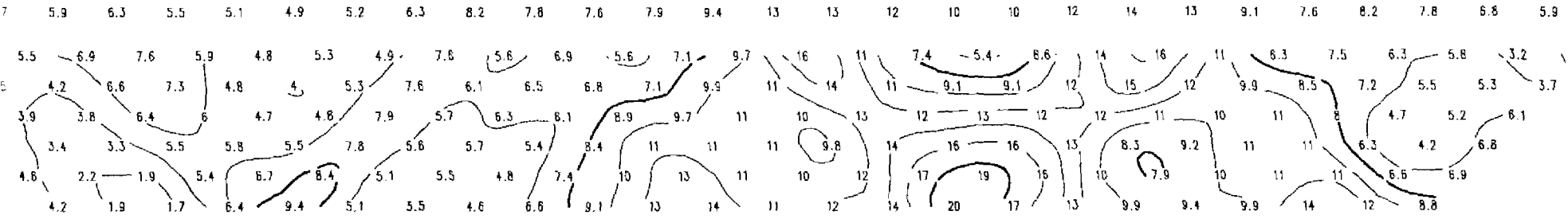
0 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N



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

Resistivity  
ohm-metres

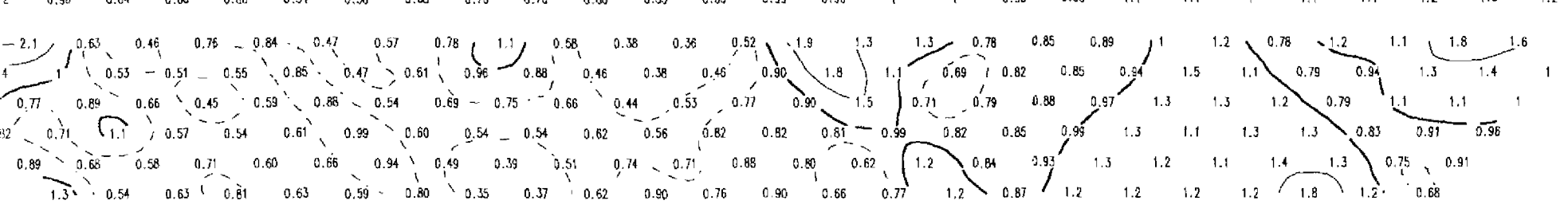
0 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N



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

Interpretation  
QGI:  
Chargeability  
millivolts/volt

0 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N



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

Metal Factor  
IP/Resistivity

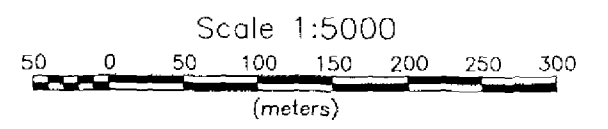
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

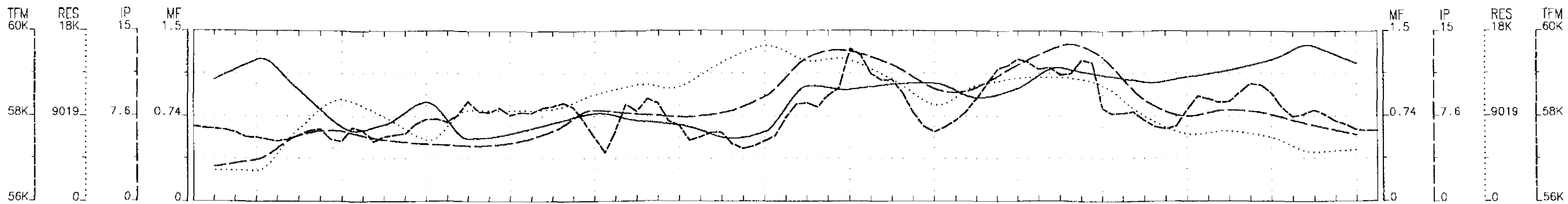
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)



**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
 North Grid, McWilliams & Dona Twps., ON  
 Processing Date: 00/06/04  
 Drawing Number: QG-112-IP-DD-Line 5000 E  
**QUANTEC GEOSCIENCE INC.**

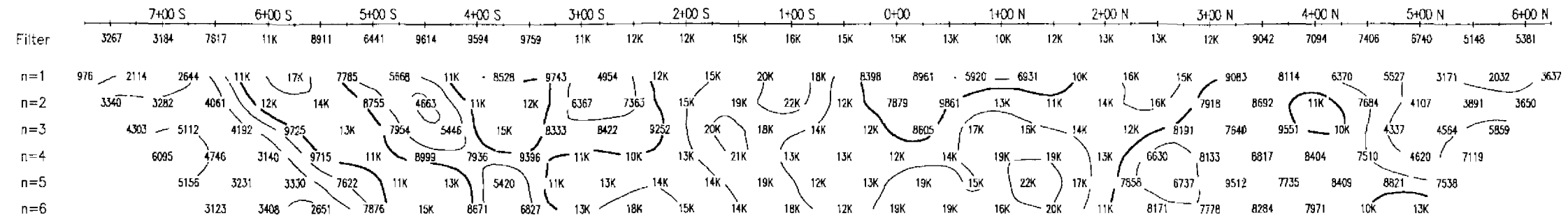






LINE S000E

Resistivity  
ohm-metres



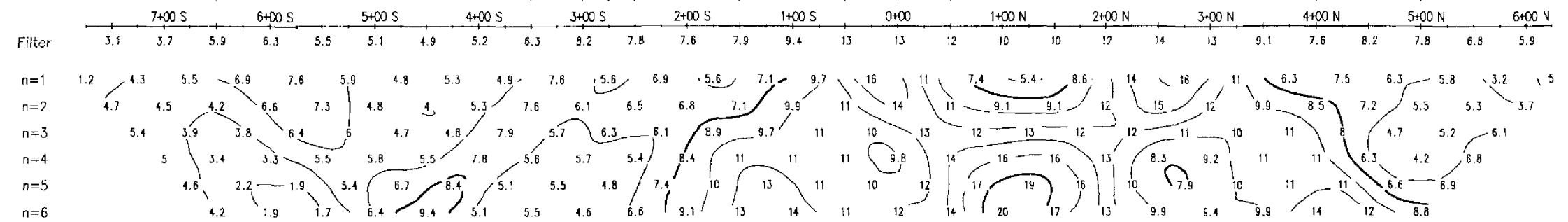
Resistivity  
ohm-metres

Interpretation  
QGI:



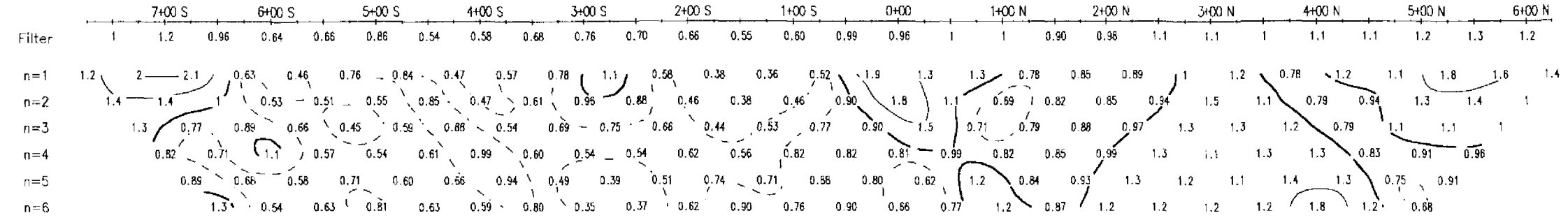
Interpretation  
QGI:

Chargeability  
millivolts/volt



Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

Resistiv  
Chargec  
Metal F

50

MUS  
IND  
R  
North Gr

Drawin





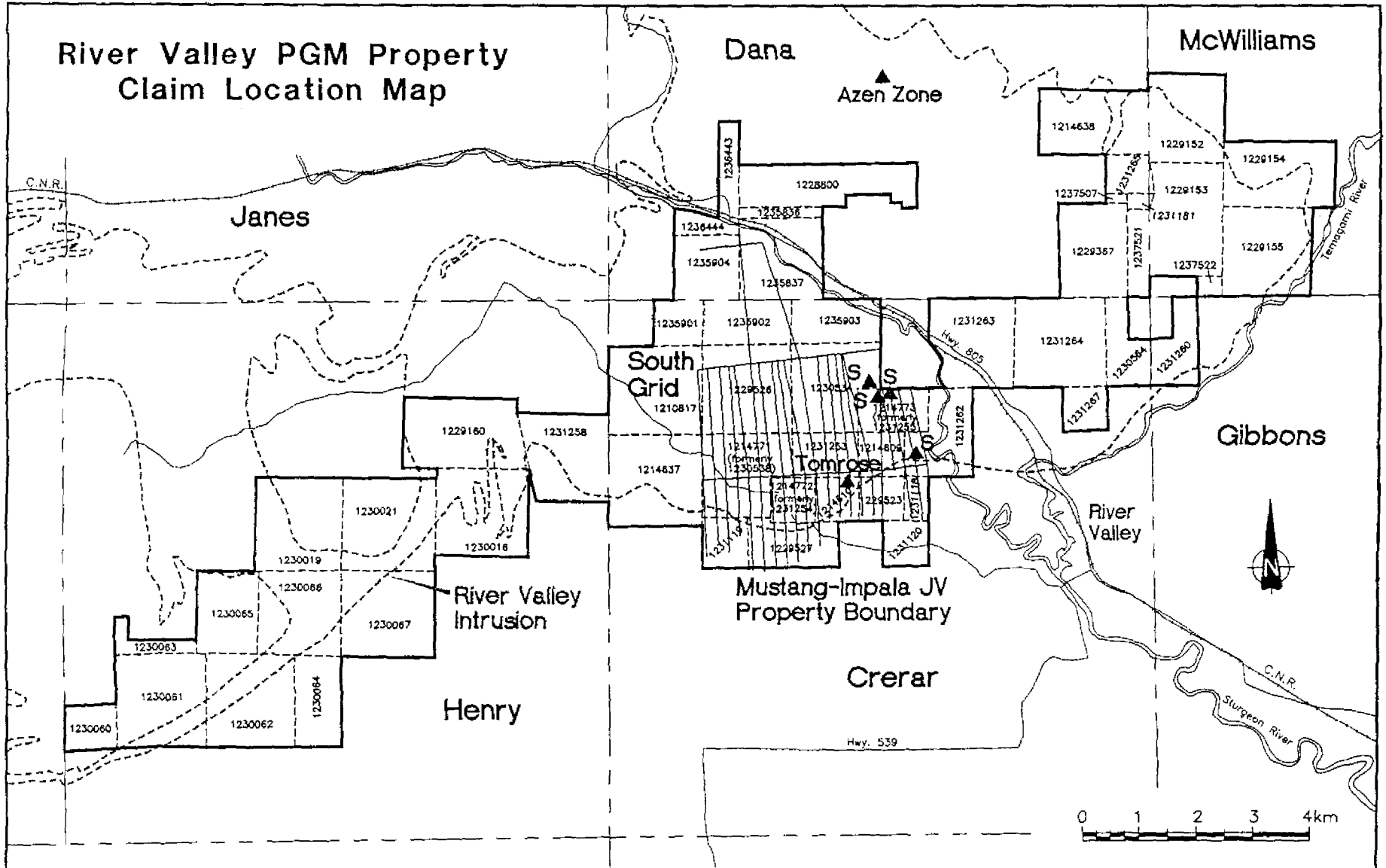
41I09NE2010

2.20381

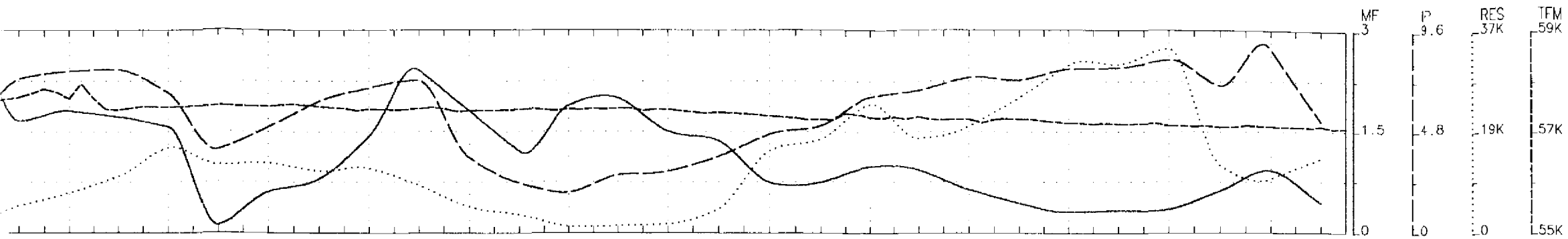
MCWILLIAMS

600

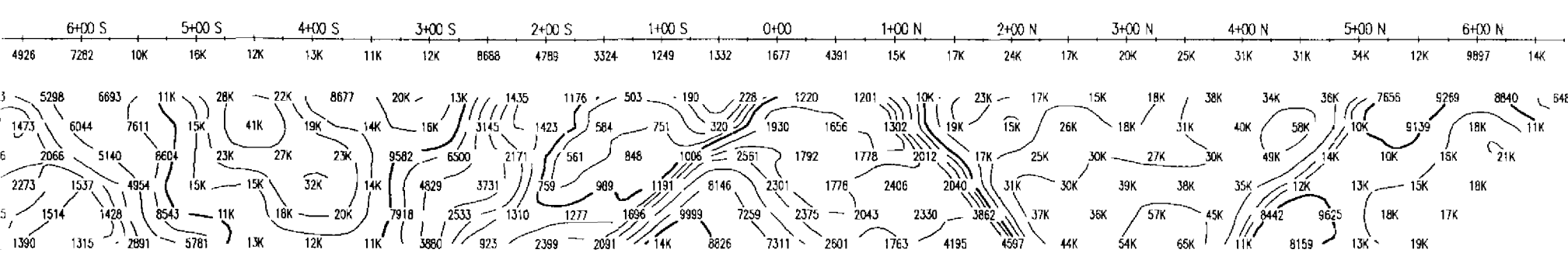
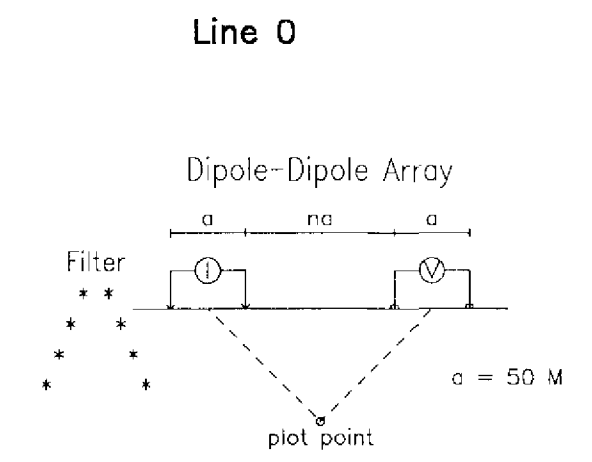
# River Valley PGM Property Claim Location Map



Tim (7C)



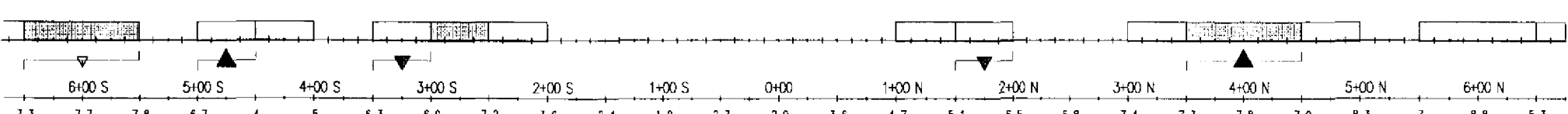
MF 3  
IP 9.6  
RES 37K  
TFM 59K



Resistivity  
ohm-metres

Filter

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

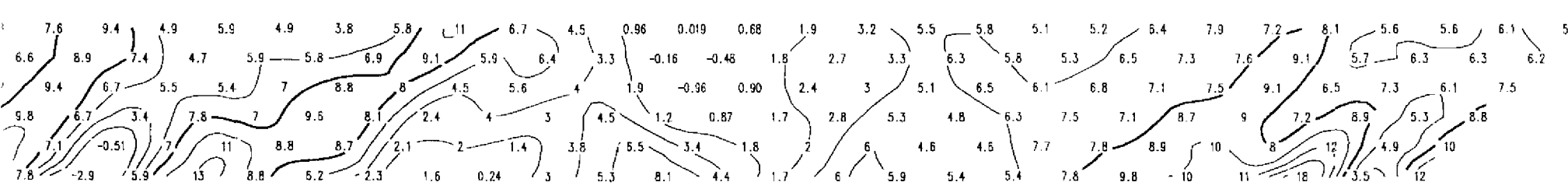


Interpretation  
QGI:

Chargeability  
millivolts/volt

Filter

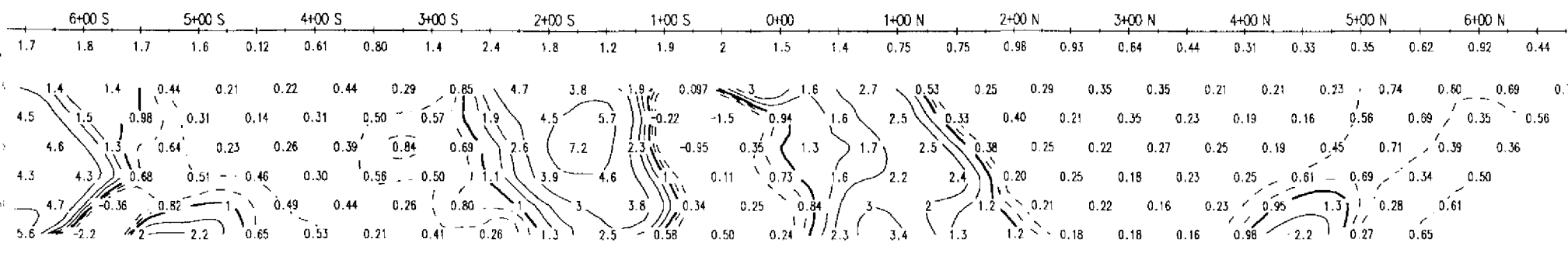
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



Metal Factor  
IP/Resistivity

Filter

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



**Line 0**

Dipole-Dipole Array

Filter

$a = 50 \text{ M}$

plot point

Resistivity  
ohm-metres

Interpretation  
QGI:

Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity

**SURVEY SPECIFICATIONS**

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

**MAP SPECIFICATIONS**

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000

50 0 50 100 150 200 250 300  
(meters)

**MUSTANG MINERALS CORPORATION**

**INDUCED POLARIZATION SURVEY**

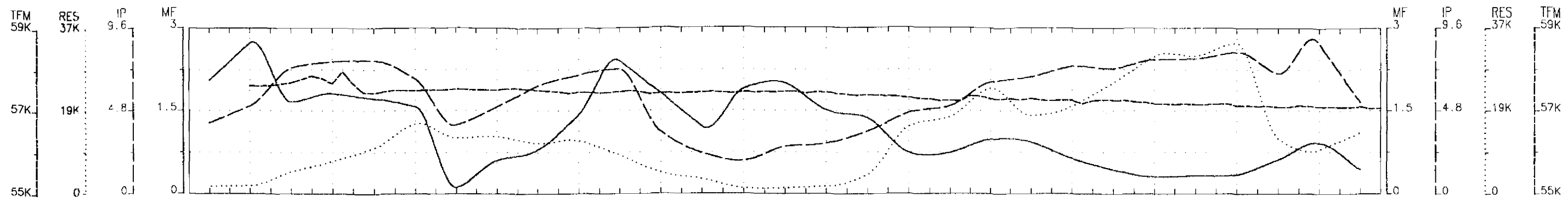
**RIVER VALLEY PGM PROJECT**

South Grid, Crerar Twp., ON

Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 0

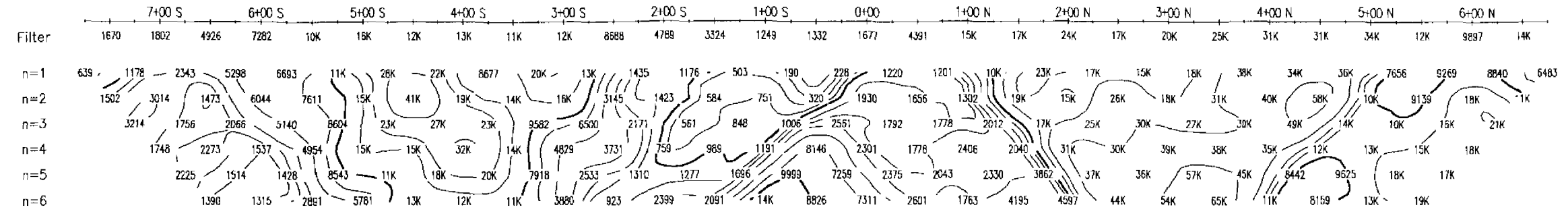
**QUANTEC GEOSCIENCE INC.**





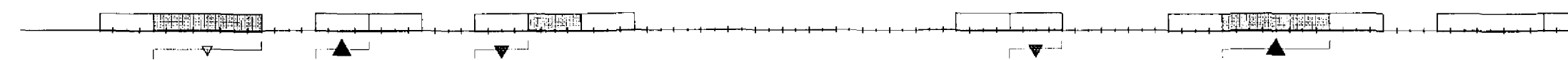
LINEO

Resistivity  
ohm-metres



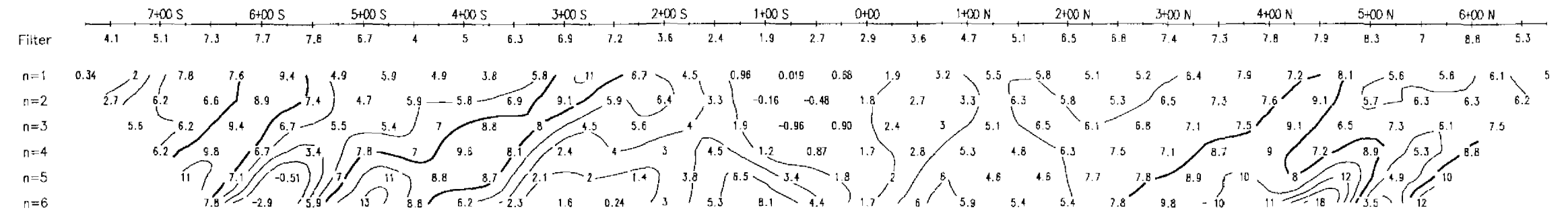
Resistivity  
ohm-metres

Interpretation  
QGI:



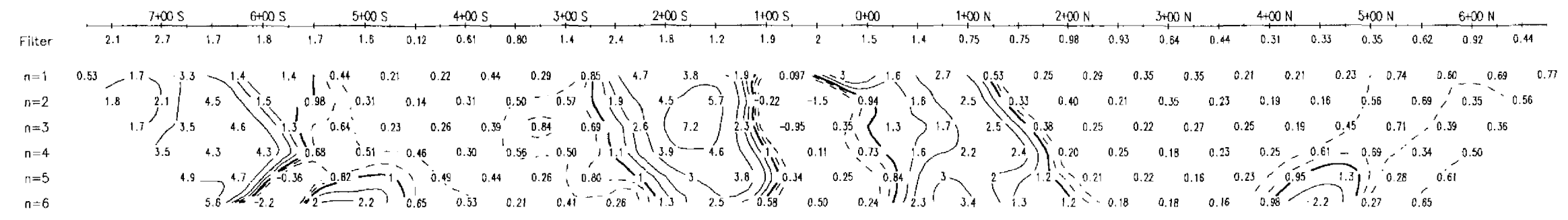
Interpretation  
QGI:

Chargeability  
millivolts/volt



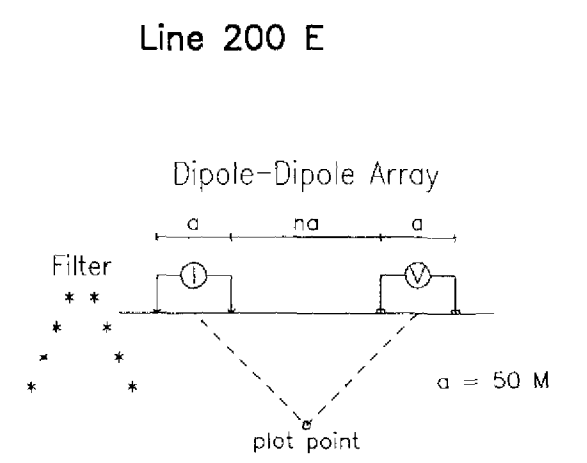
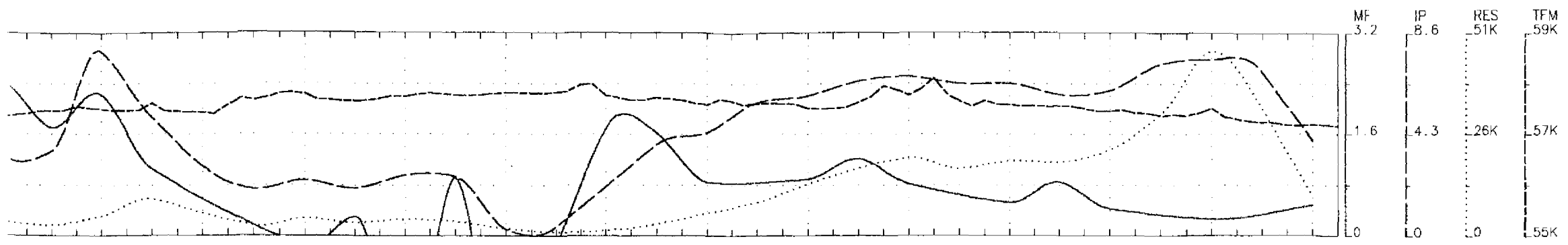
Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity

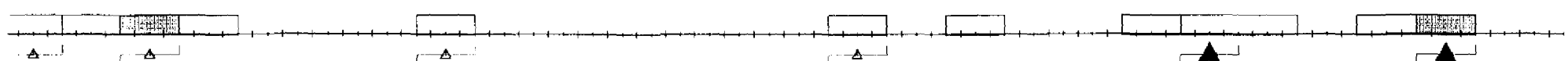
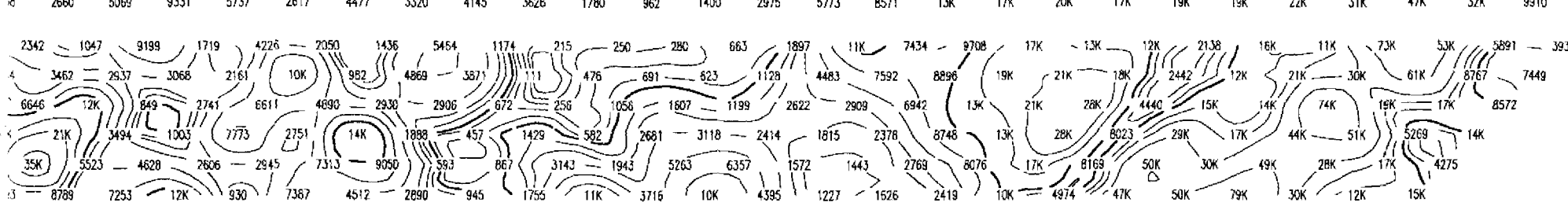


Metal Factor  
IP/Resistivity

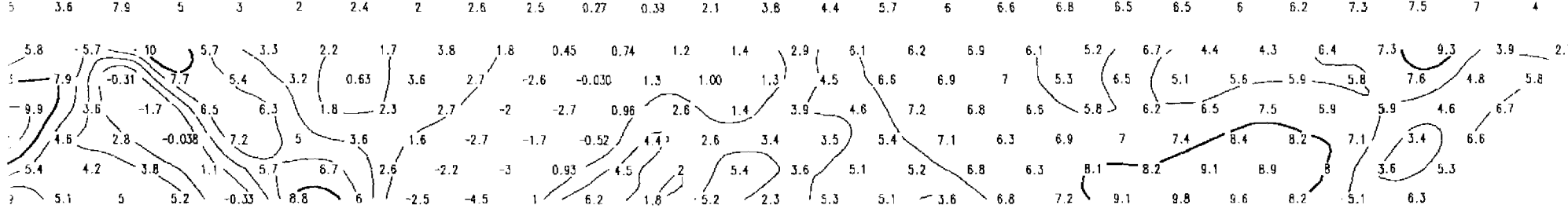




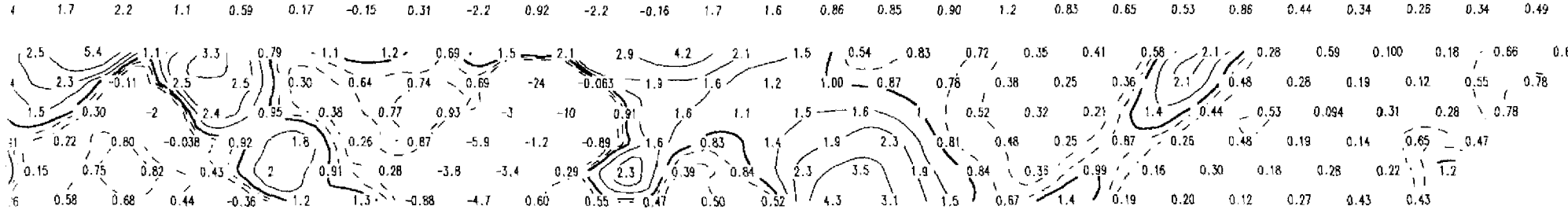
0 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N



0 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N



0 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N



- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

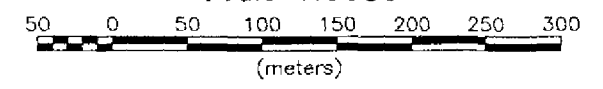
**SURVEY SPECIFICATIONS**

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

**MAP SPECIFICATIONS**

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000

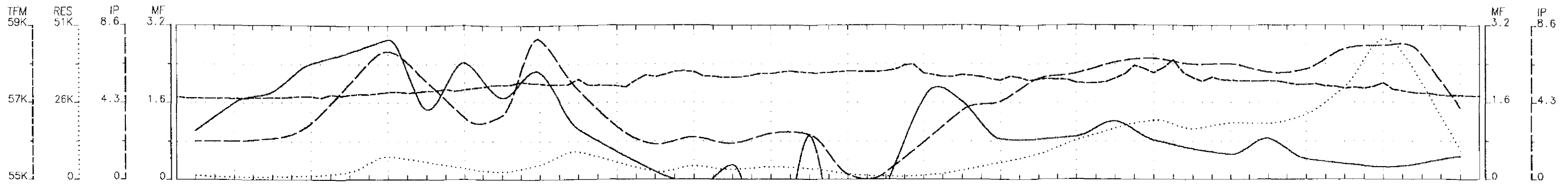


**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
South Grid, Crerar Twp., ON

Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 200 E

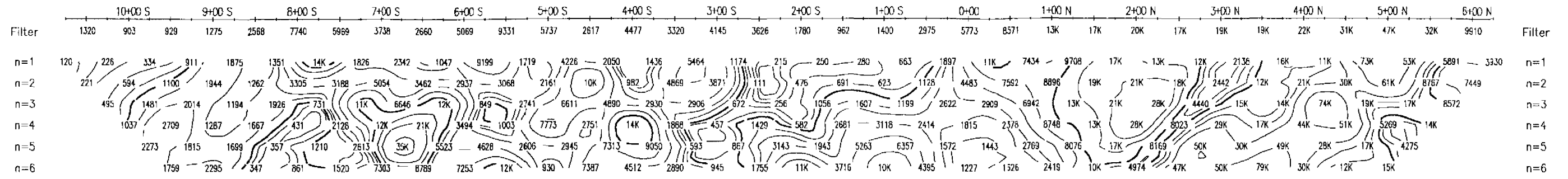
**QUANTEC GEOSCIENCE INC.**





LINE 200E

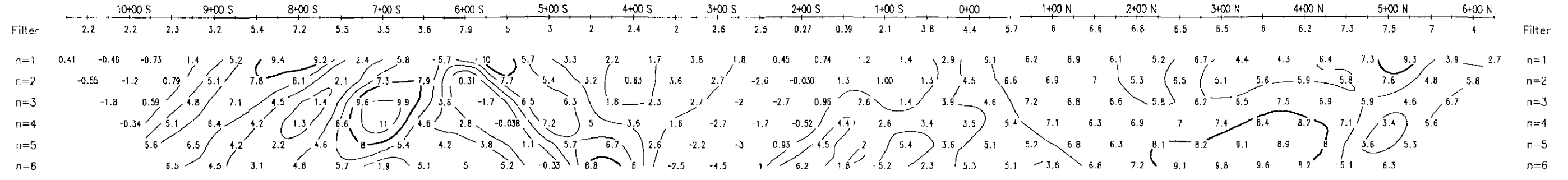
Resistivity  
ohm-metres



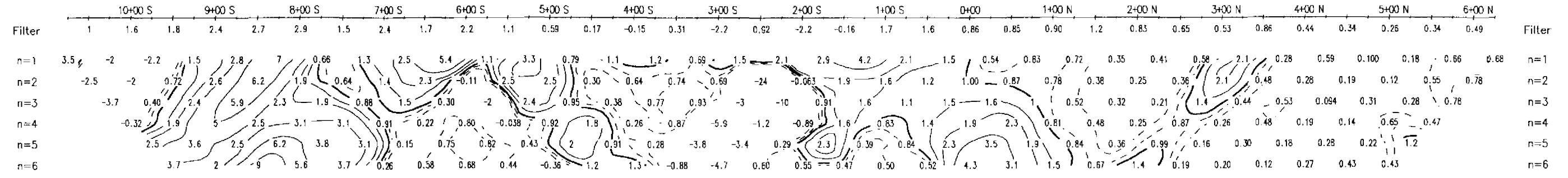
Interpretation  
QGI:

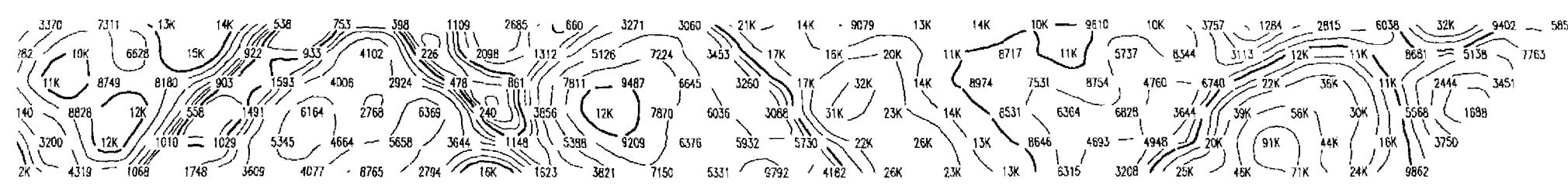
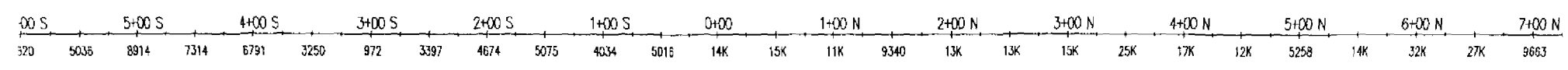
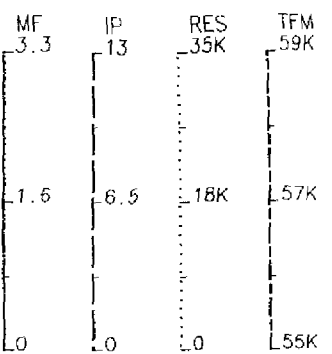
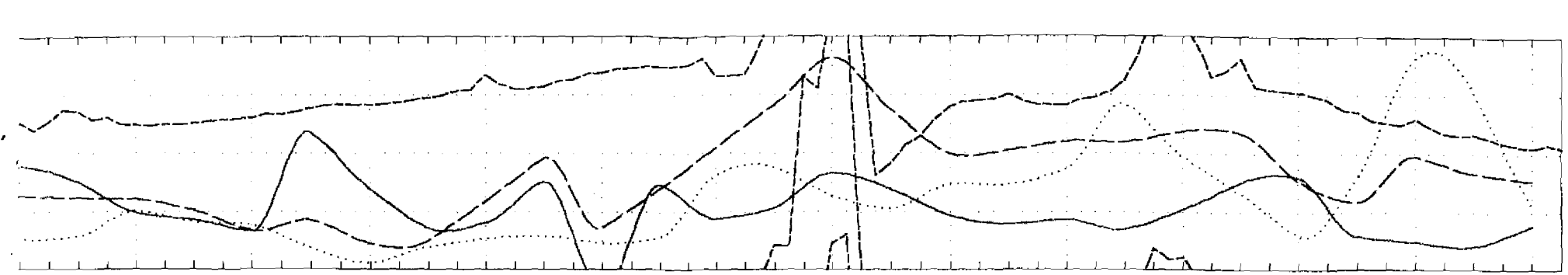


Chargeability  
millivolts/volt



Metal Factor  
IP/Resistivity





Resistivity  
ohm-metres

Filter

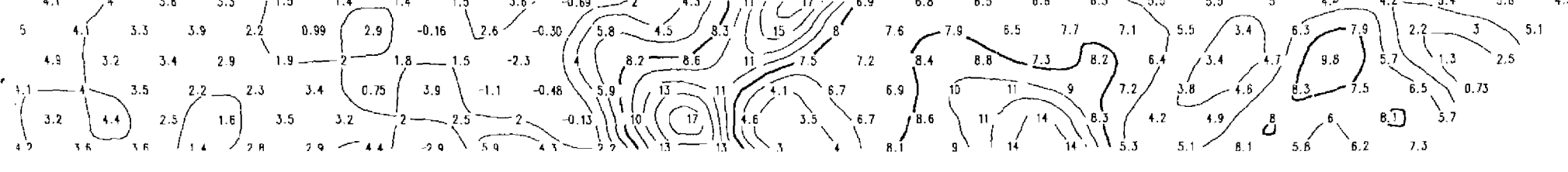
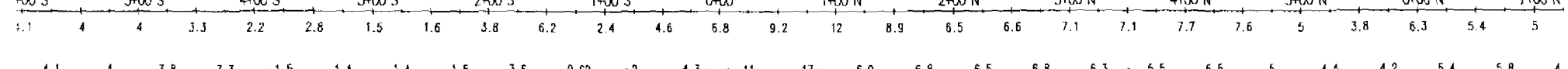
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



Interpretation  
QGI:

Low resistivity feature  
Strong, Moderate, Weak

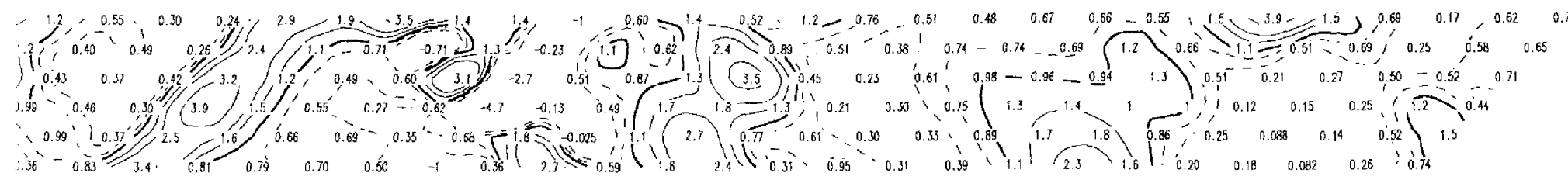
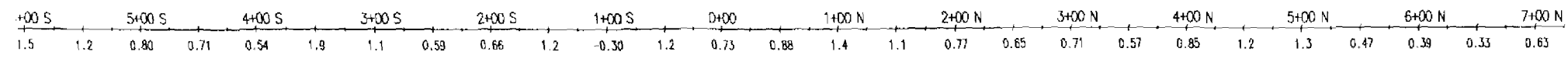
High resistivity feature  
Strong, Moderate, Weak



Chargeability  
millivolts/volt

Filter

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

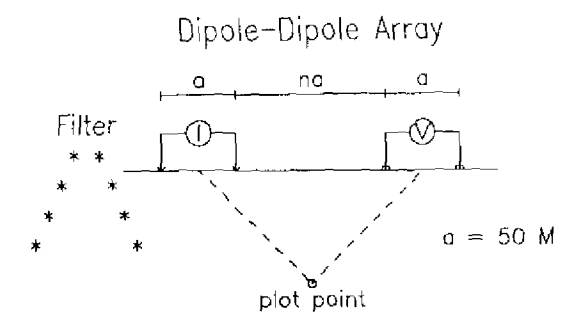


Metal Factor  
IP/Resistivity

Filter

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

Line 400 E



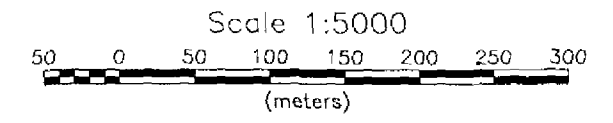
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

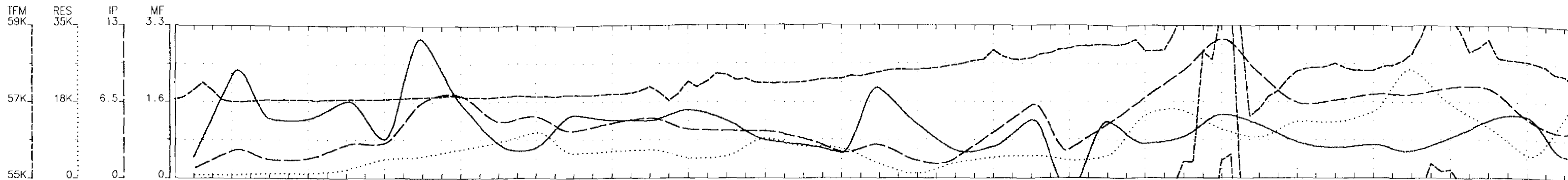


**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
South Grid, Crerar Twp., ON

Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 400 E

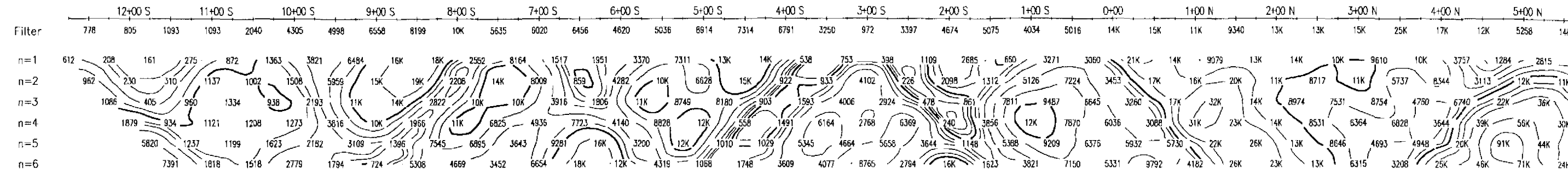
**QUANTEC GEOSCIENCE INC.**



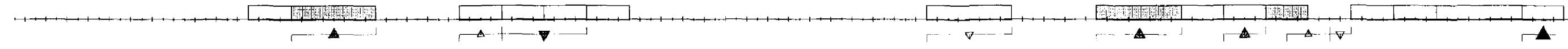


LINE 400E

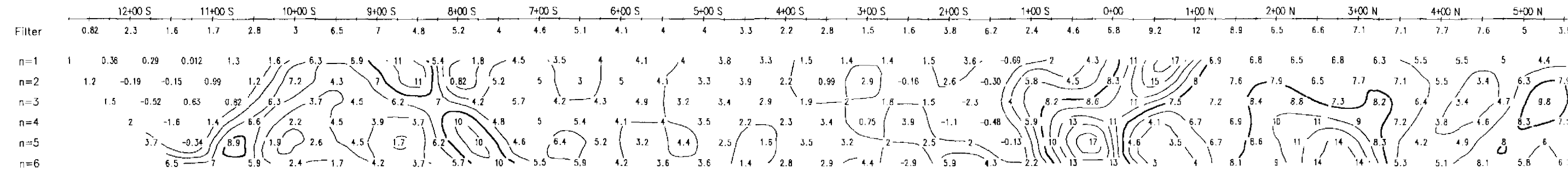
Resistivity  
ohm-metres



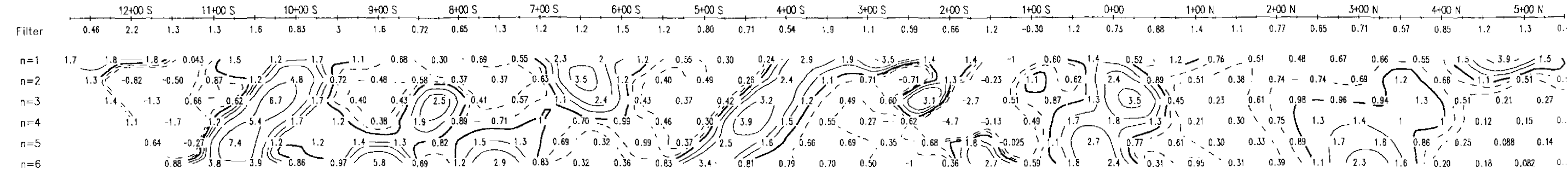
Interpretation  
QGI:



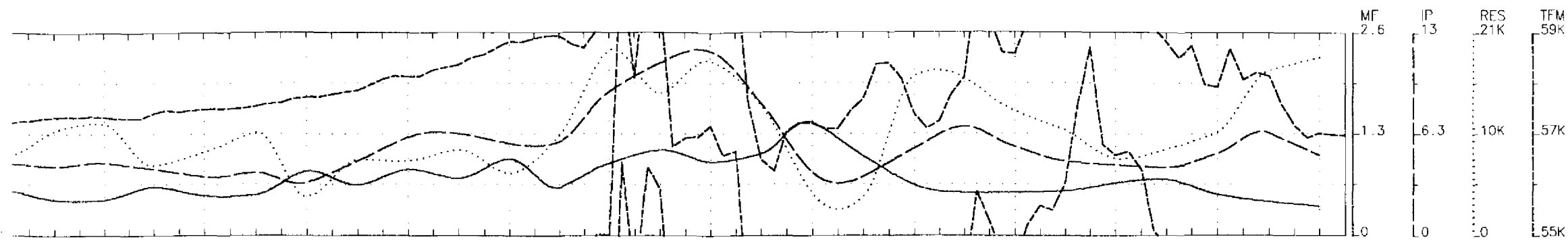
Chargeability  
millivolts/volt



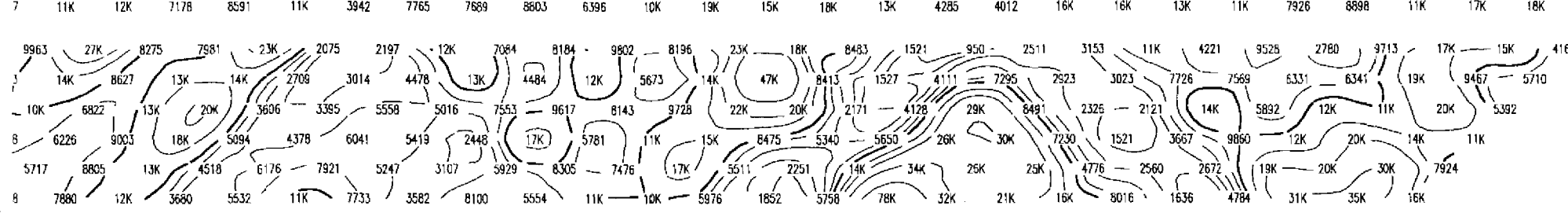
Metal Factor  
IP/Resistivity







0 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N 7+00 N

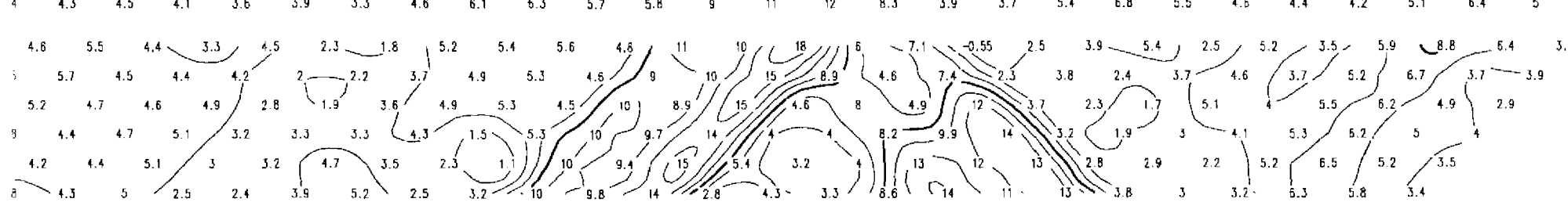


Filter  
Resistivity  
ohm-metres  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6

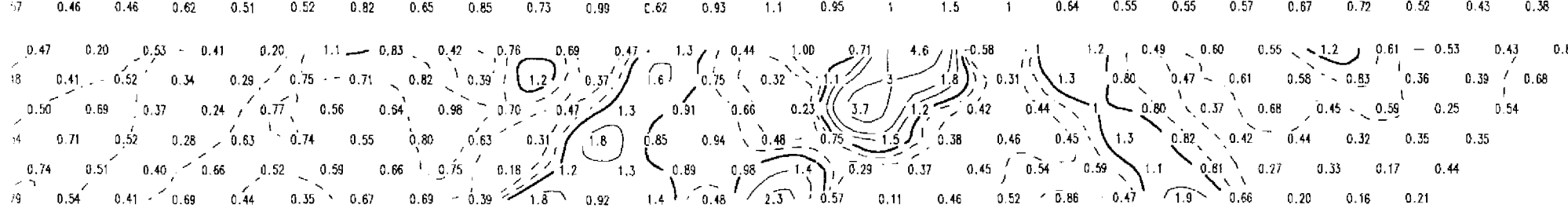


Interpretation  
QGI:  
Chargeability  
millivolts/volt  
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6

0 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N 7+00 N

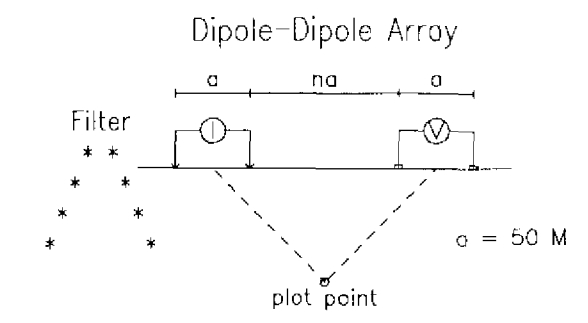


0 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N 7+00 N



Filter  
Metal Factor  
IP/Resistivity  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6

Line 600 E



- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

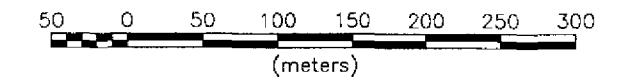
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000



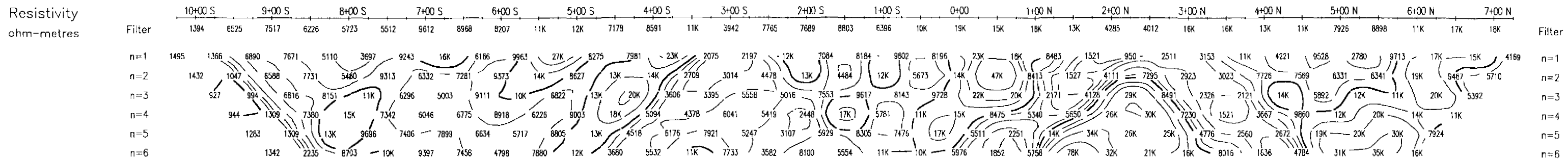
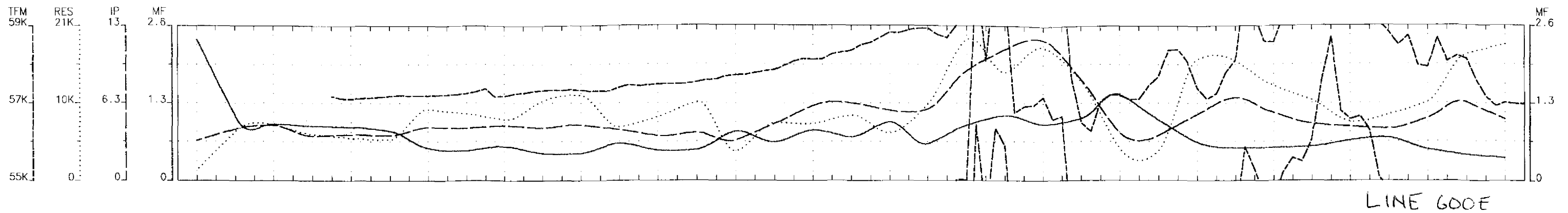
MUSTANG MINERALS CORPORATION

INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
South Grid, Crerar Twp., ON

Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 600 E

QUANTEC GEOSCIENCE INC.



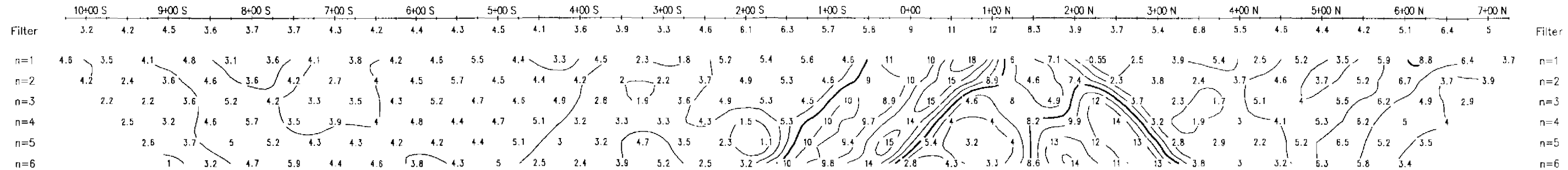


Interpretation

QG:

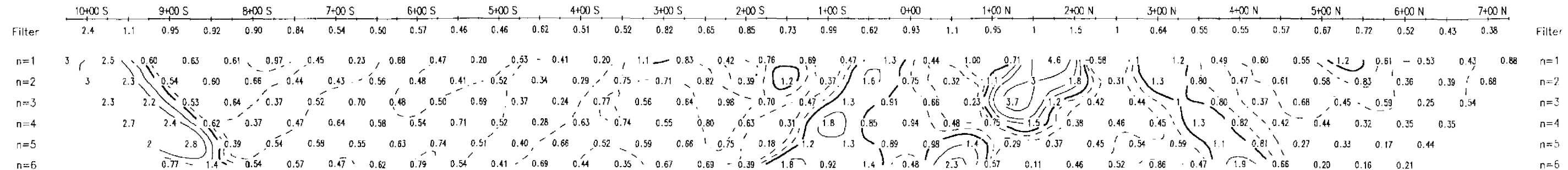
Chargeability

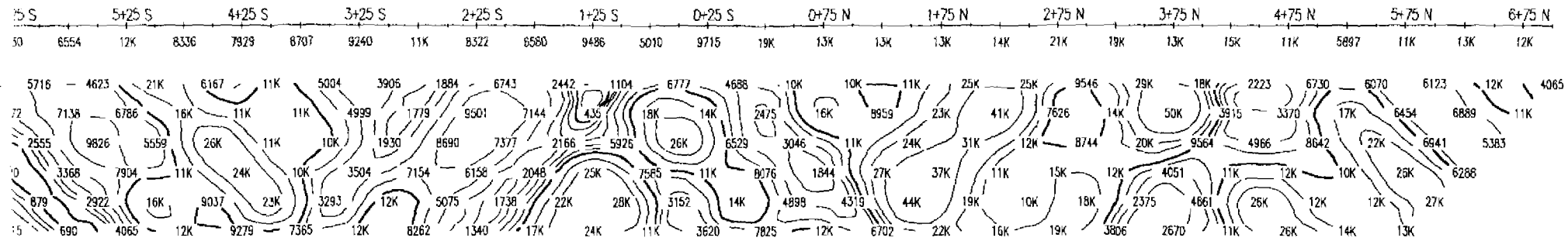
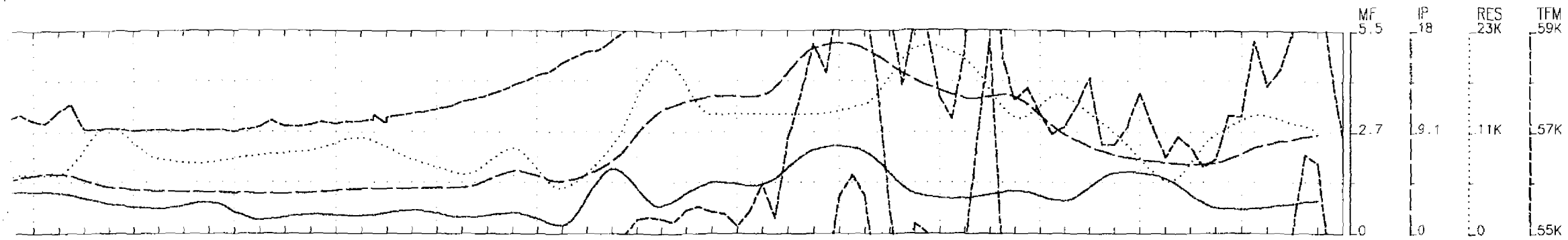
millivolts/volt



Metal Factor

IP/Resistivity

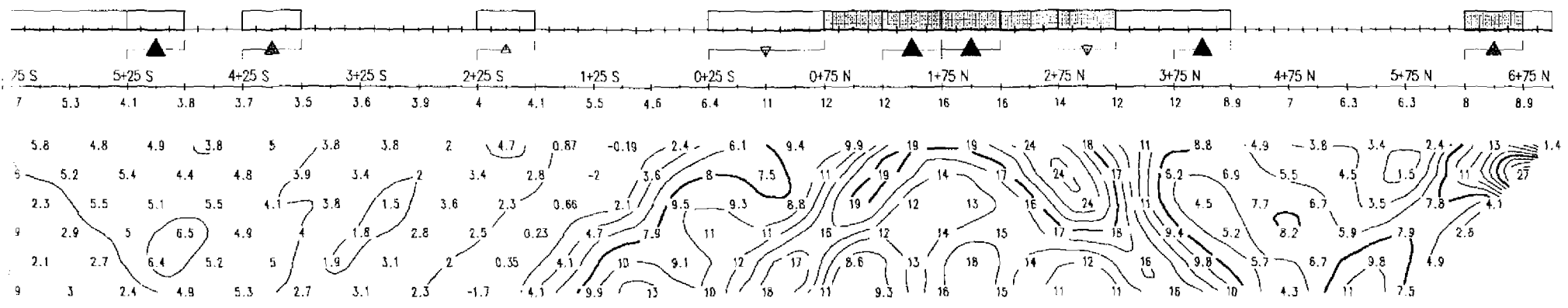




Resistivity  
ohm-metres

Filter

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

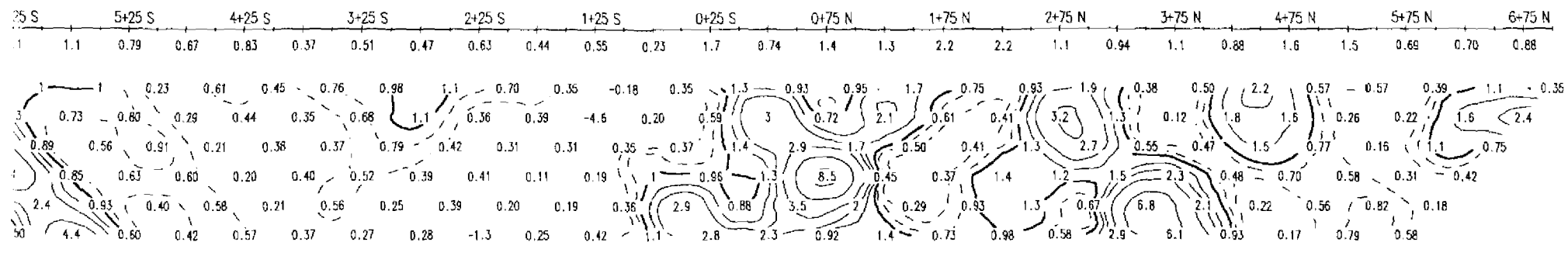


Interpretation  
QG:

Chargeability  
millivolts/volt

Filter

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

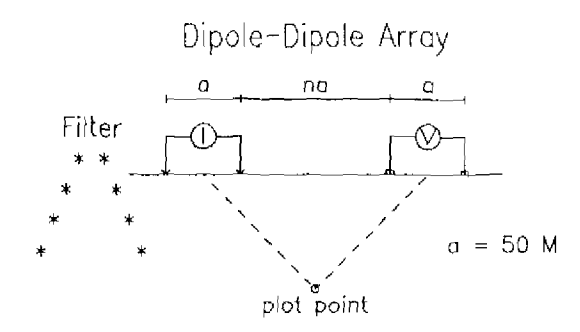


Metal Factor  
IP/Resistivity

Filter

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

### Line 800 E



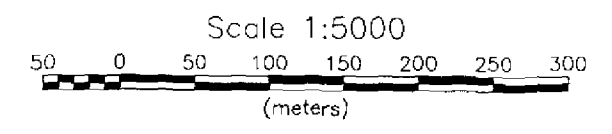
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature, Strong, Moderate, Weak
- High resistivity feature, Strong, Moderate, Weak

#### SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 = 1850 ms

#### MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)



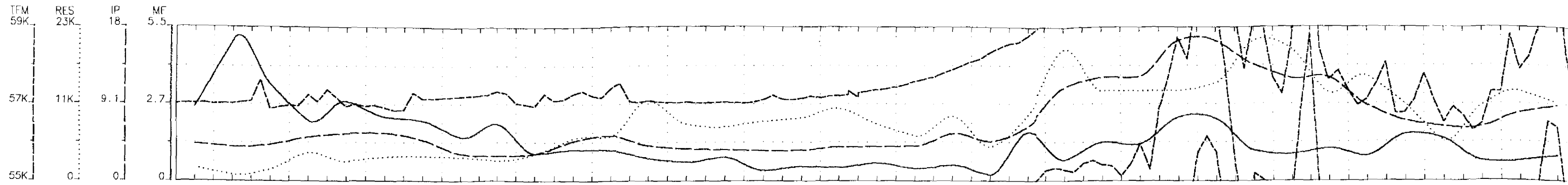
### MUSTANG MINERALS CORPORATION

INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
South Grid, Crerar Twp., ON

Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 800 E

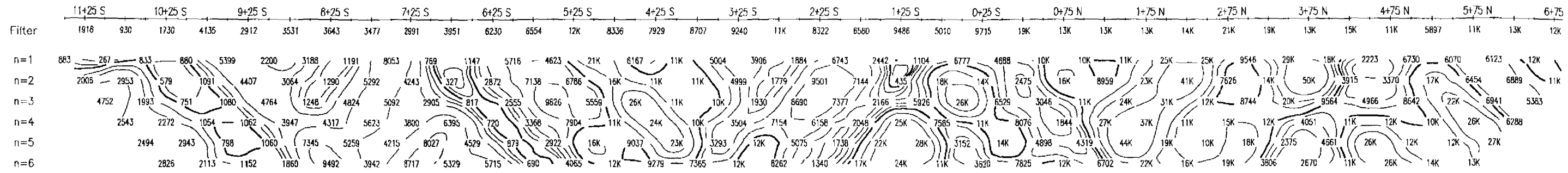
QUANTEC GEOSCIENCE INC.



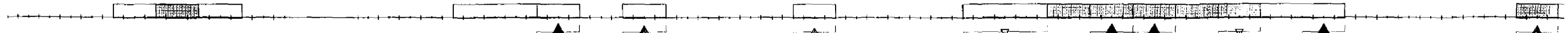


LINE 800 E

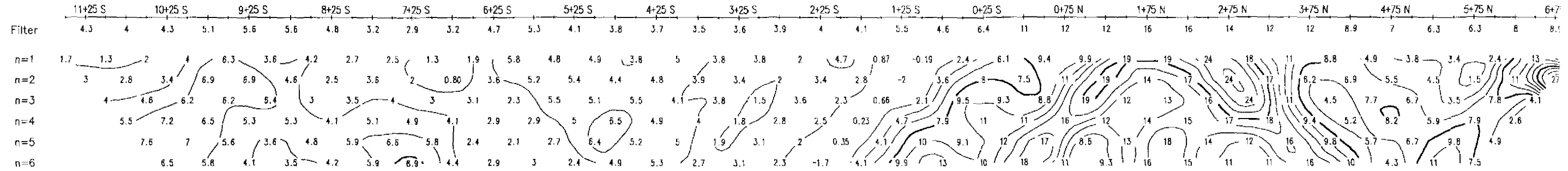
Resistivity  
ohm-metres



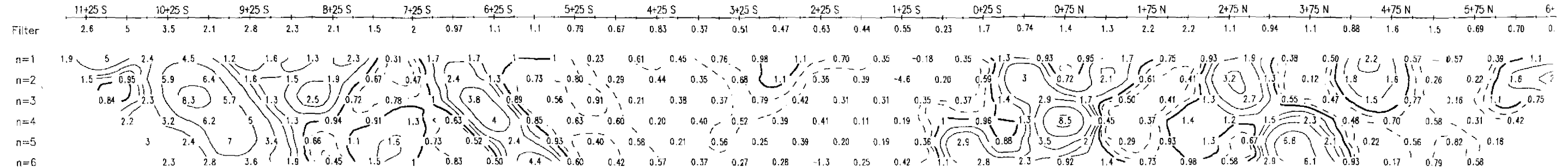
Interpretation  
QGI:

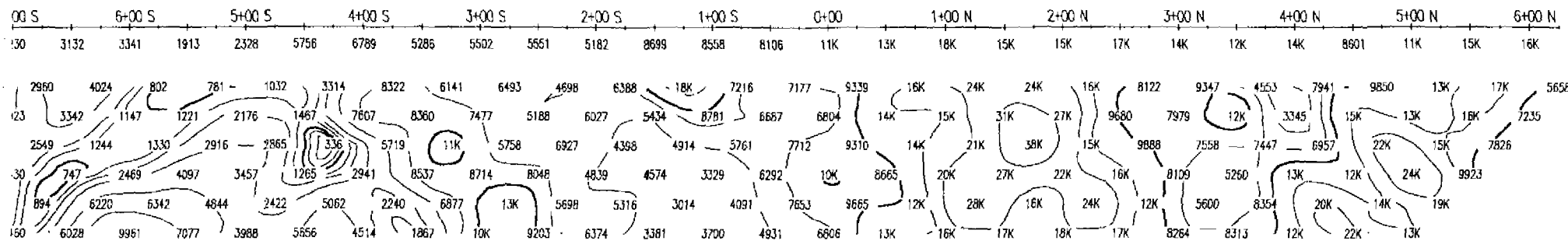
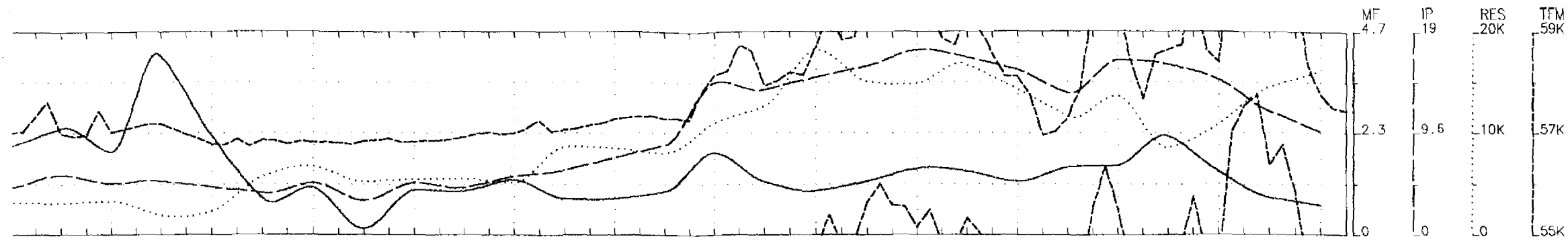


Chargeability  
millivolts/volt



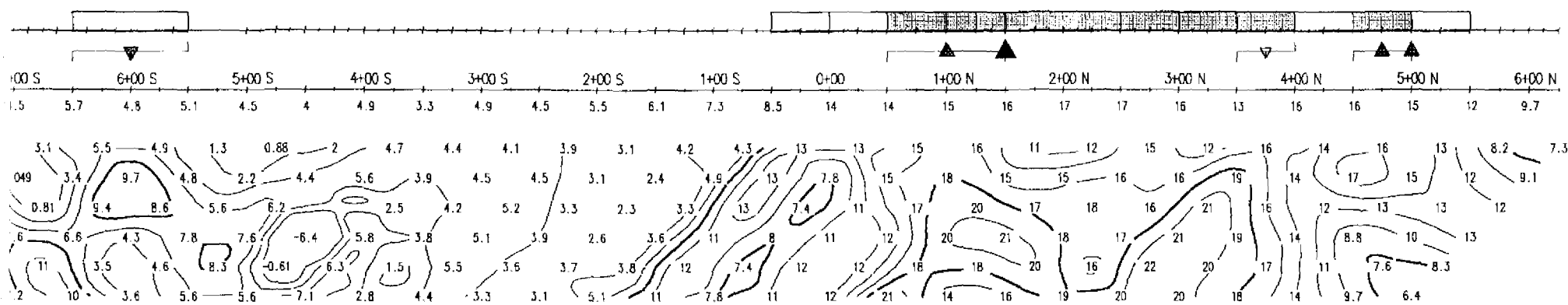
Metal Factor  
IP/Resistivity





Resistivity  
ohm-metres

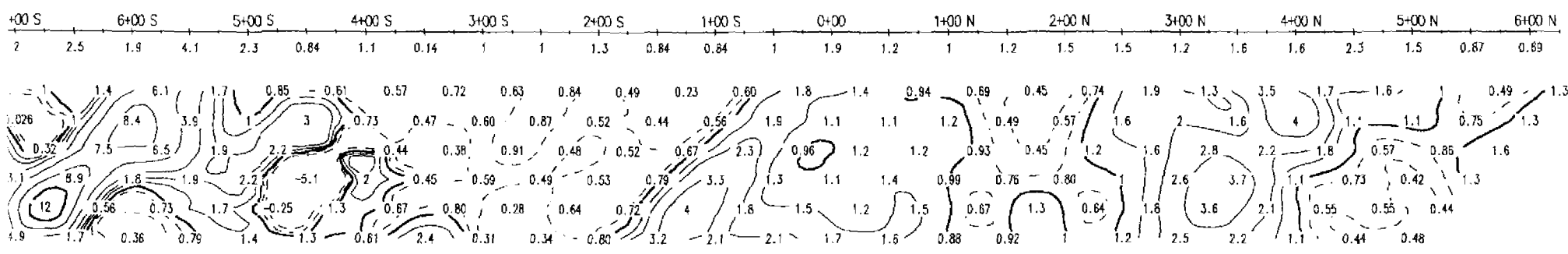
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



Interpretation  
QGI:

Chargeability  
millivolts/volt

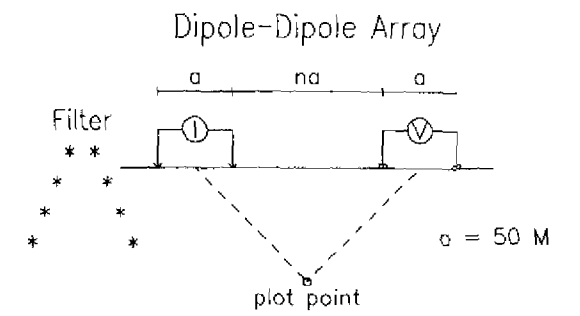
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



Metal Factor  
IP/Resistivity

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

Line 1000 E



- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature: Strong, Moderate, Weak
- High resistivity feature: Strong, Moderate, Weak

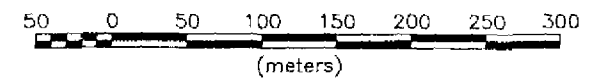
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)

Scale 1:5000

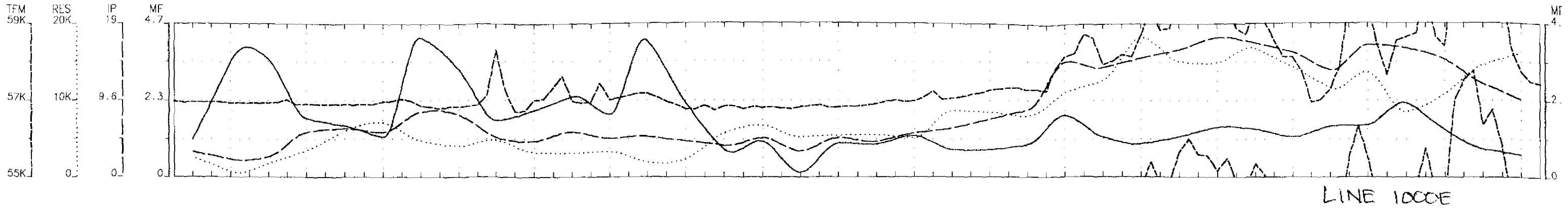


**MUSTANG MINERALS CORPORATION**  
INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
South Grid, Creerar Twp., ON

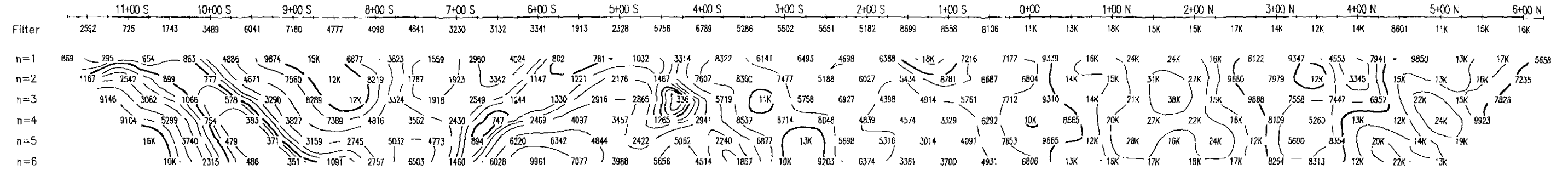
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 1000 E

**QUATEC GEOSCIENCE INC.**

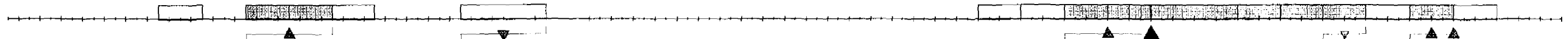




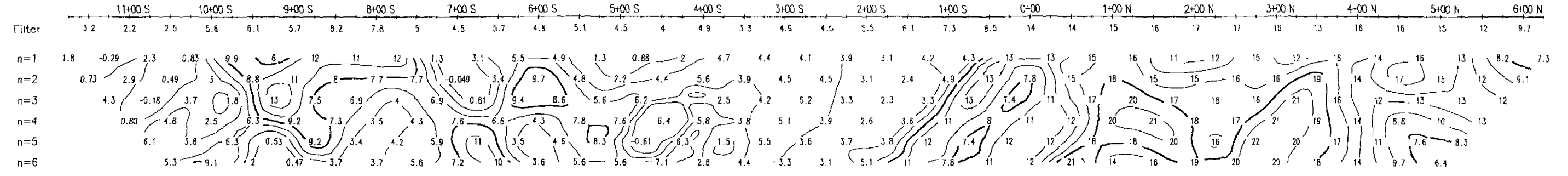
Resistivity  
ohm-metres



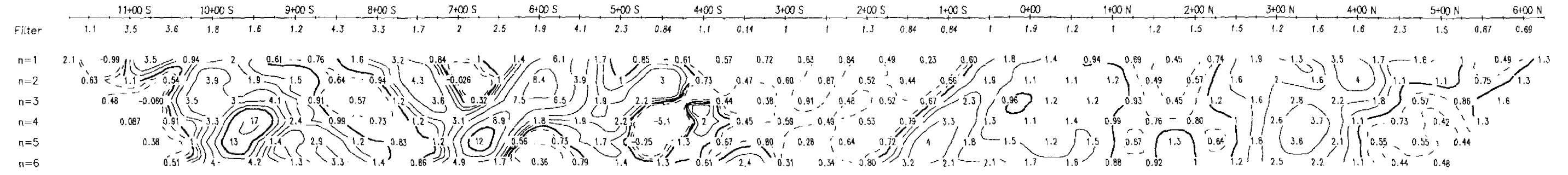
Interpretation  
QGI:

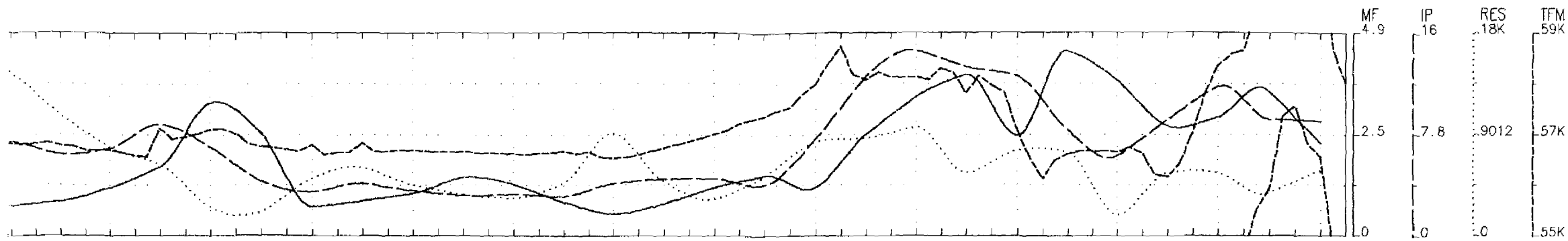


Chargeability  
millivolts/volt

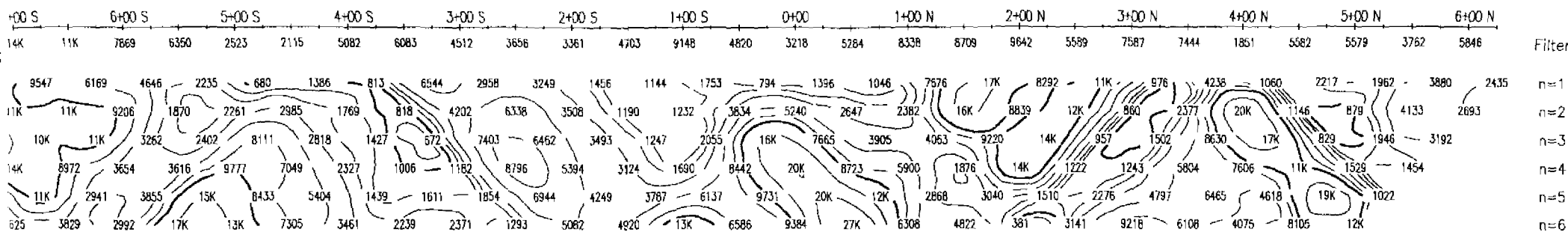
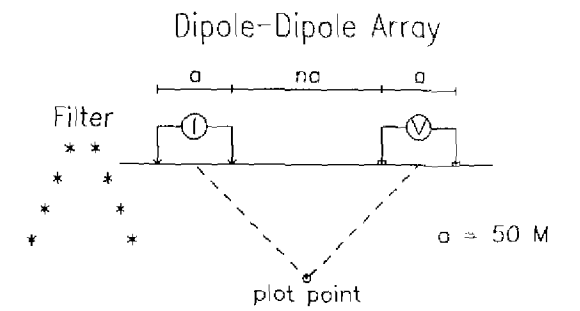


Metal Factor  
IP/Resistivity



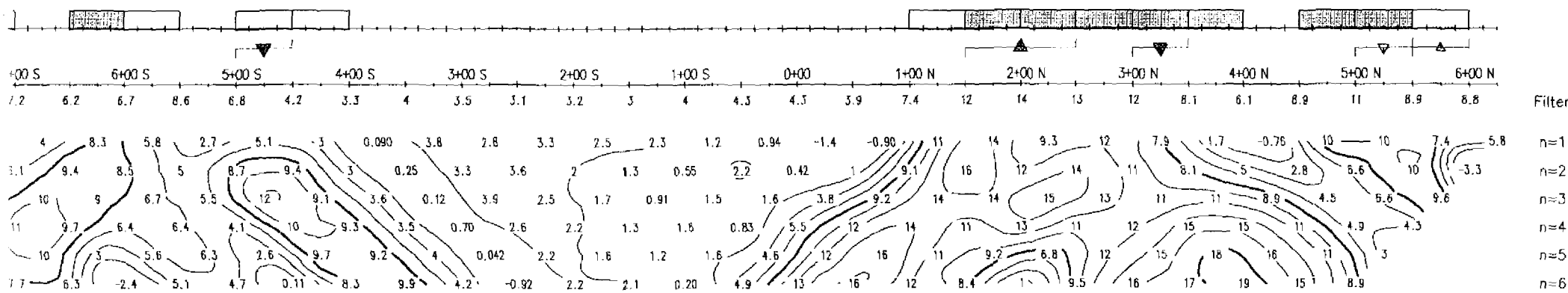


Line 1200 E



Resistivity  
ohm-metres

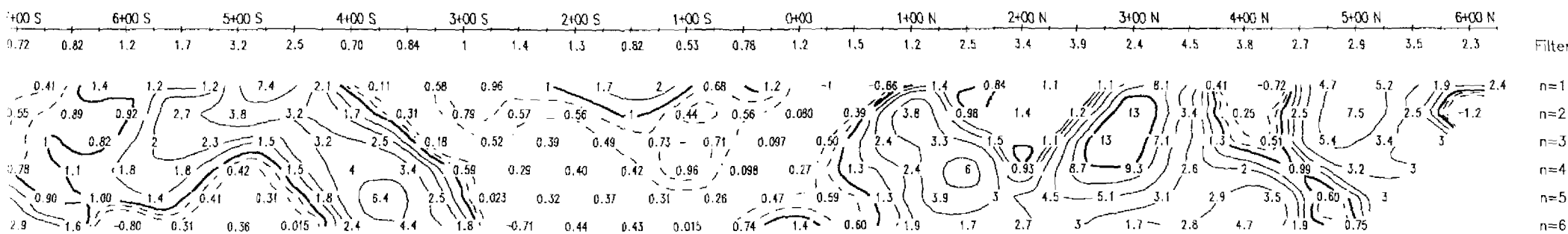
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



Interpretation  
qI:

Chargeability  
millivolts/volt

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



Metal Factor  
IP/Resistivity

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

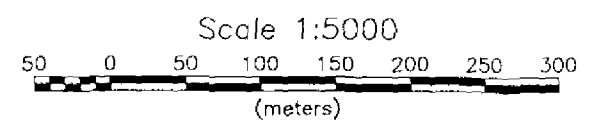
- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature, Strong, Moderate, Weak
- High resistivity feature, Strong, Moderate, Weak

SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

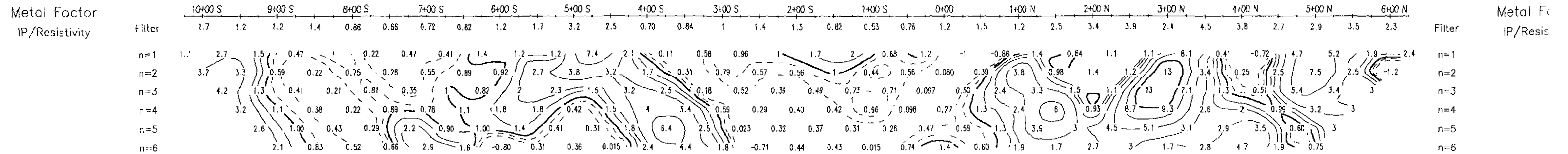
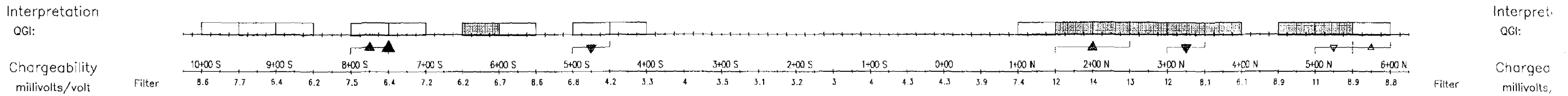
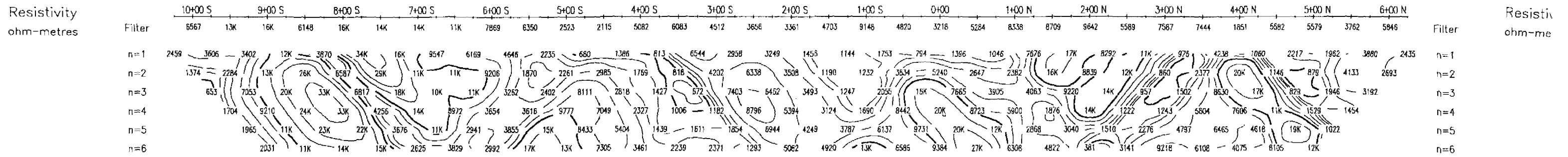
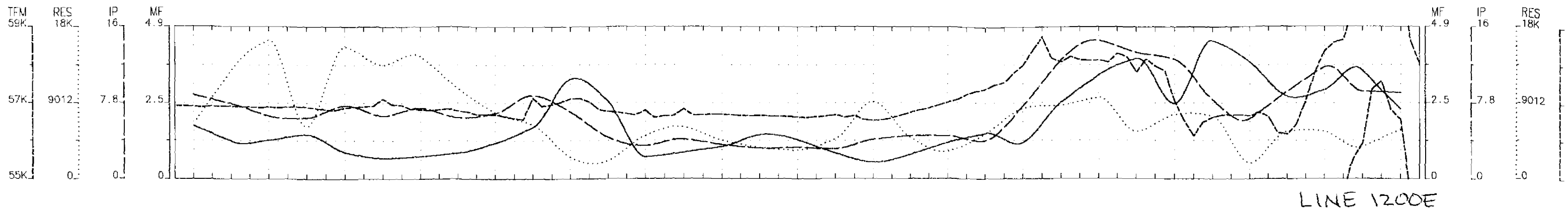
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)



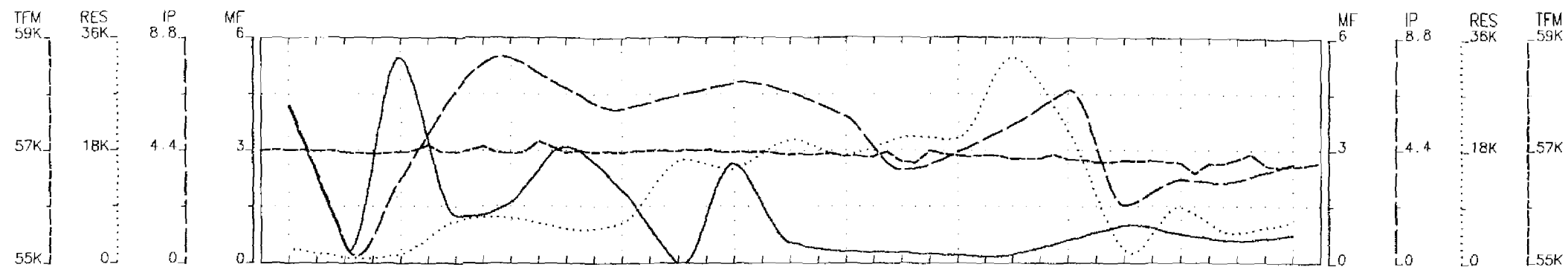
**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
South Grid, Crerar Twp., ON  
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 1200 E  
**QUANTEC GEOSCIENCE INC.**



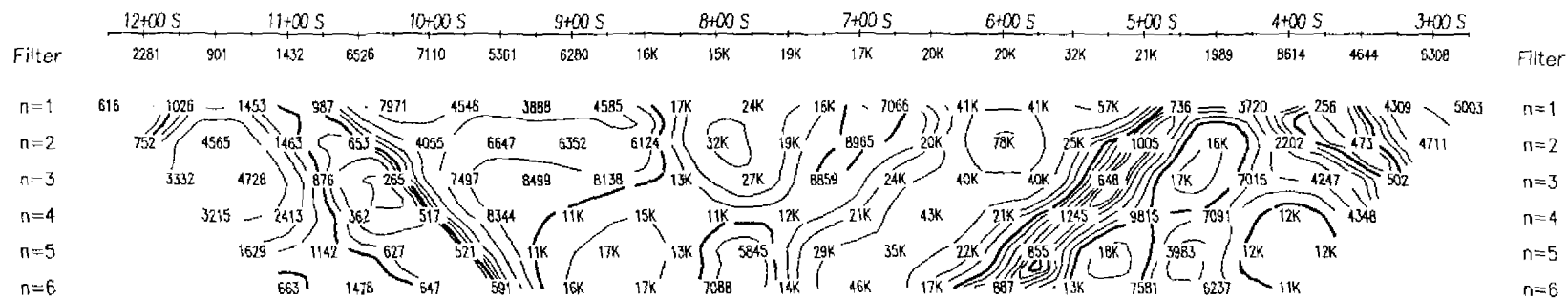




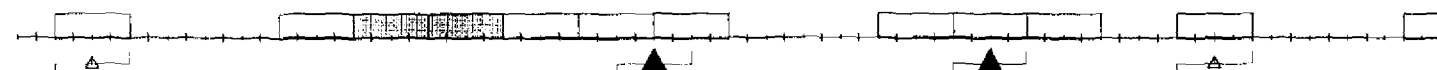




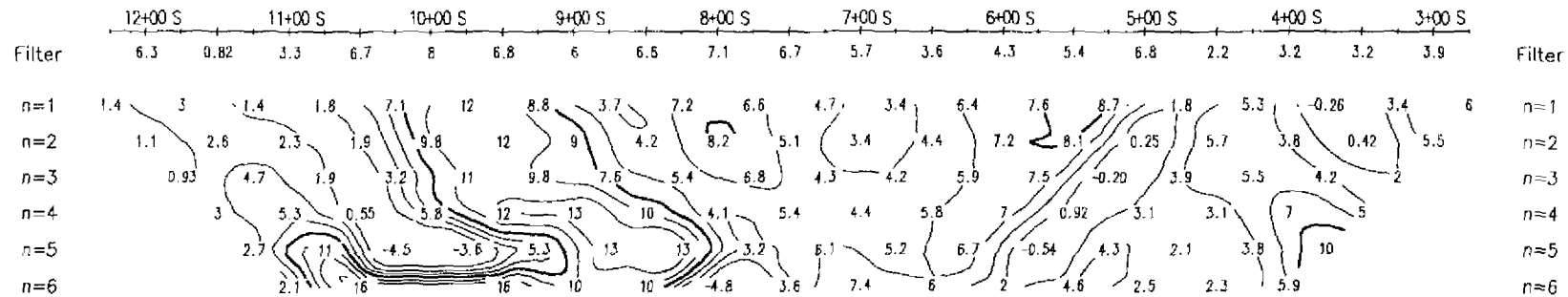
Resistivity  
ohm-metres



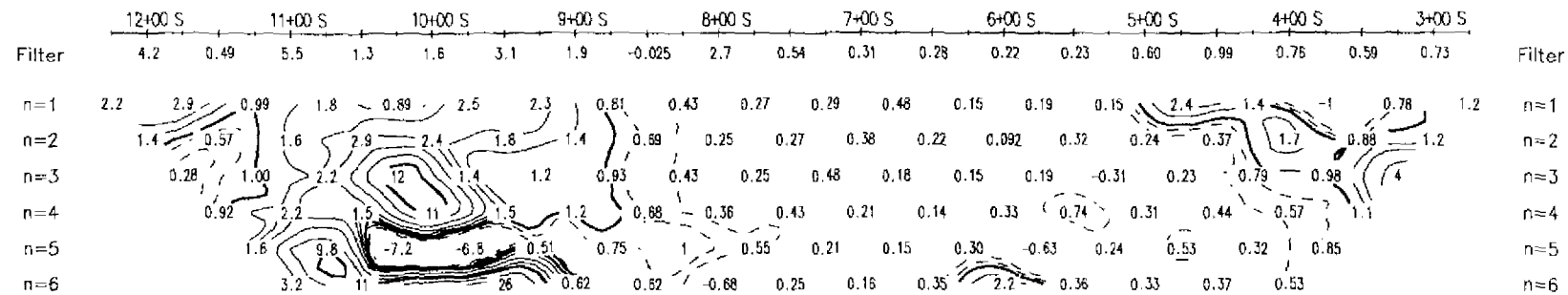
Interpretation  
QGI:



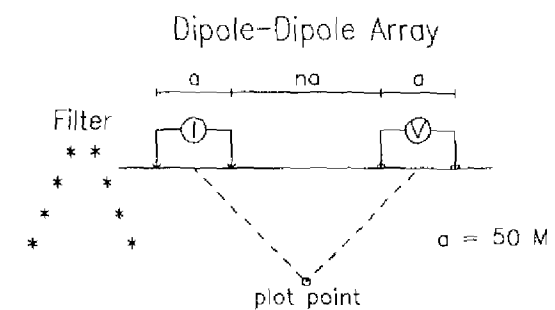
Chargeability  
millivolts/volt



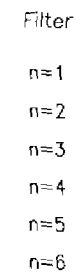
Metal Factor  
IP/Resistivity



Line 1400 E



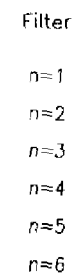
Resistivity  
ohm-metres



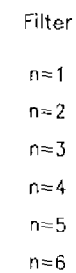
Interpretation  
QGI:

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature: Strong, Moderate, Weak
- High resistivity feature: Strong, Moderate, Weak

Chargeability  
millivolts/volt



Metal Factor  
IP/Resistivity



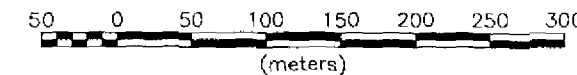
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)

Scale 1:5000



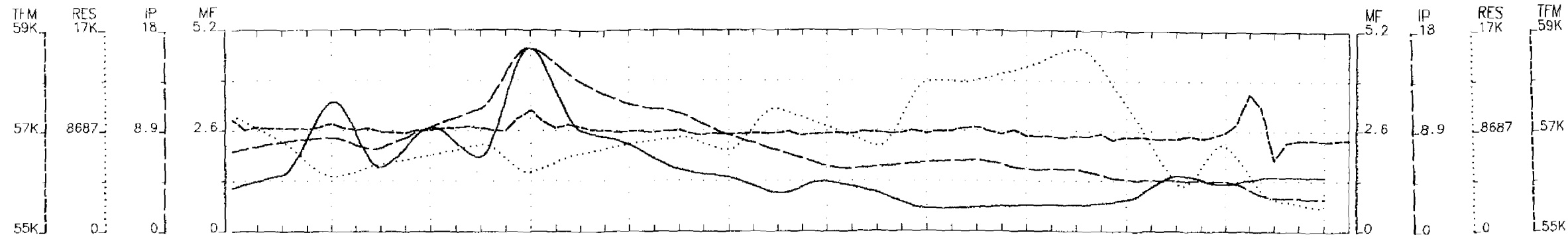
MUSTANG MINERALS CORPORATION

INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
South Grid, Crerar Twp., ON

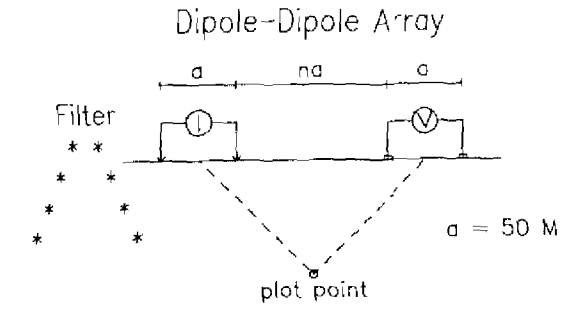
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 1400 E

QUANTEC GEOSCIENCE INC.

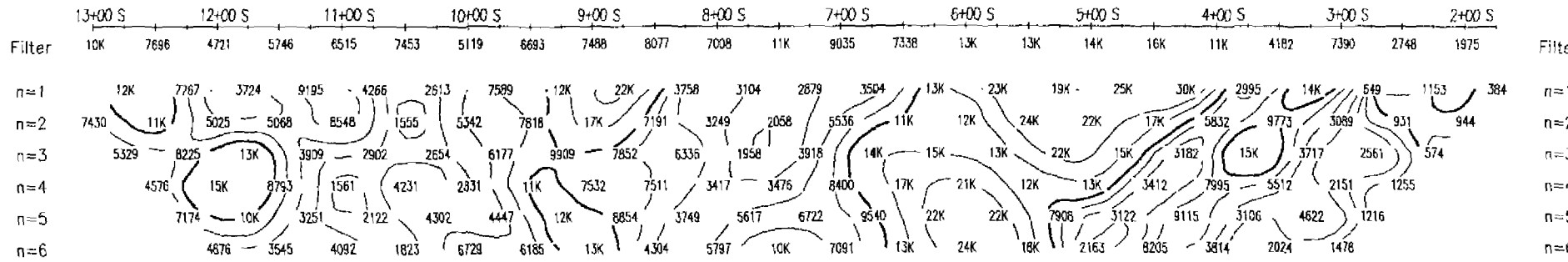




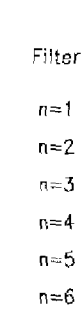
Line 1600 E



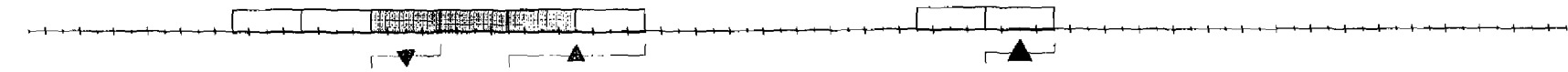
Resistivity  
ohm-metres



Resistivity  
ohm-metres



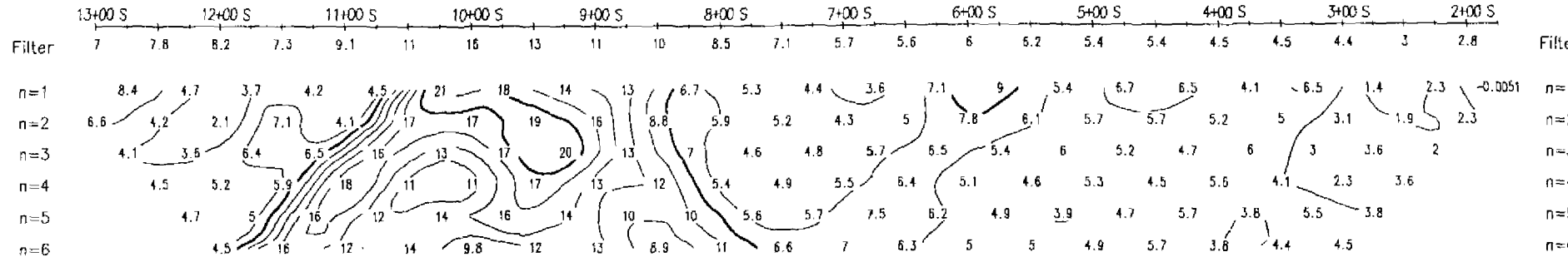
Interpretation  
QGI:



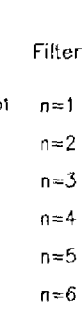
Interpretation  
QGI:

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature, Strong, Moderate, Weak
- High resistivity feature, Strong, Moderate, Weak

Chargeability  
millivolts/volt



Chargeability  
millivolts/volt



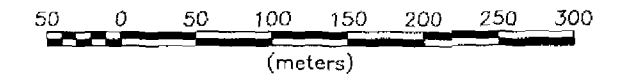
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 ~ 1850 ms

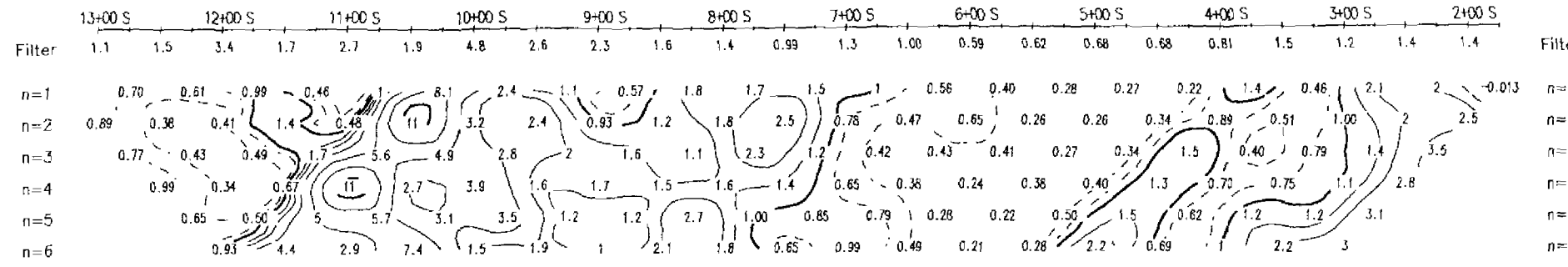
MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

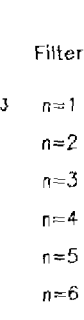
Scale 1:5000



Metal Factor  
IP/Resistivity

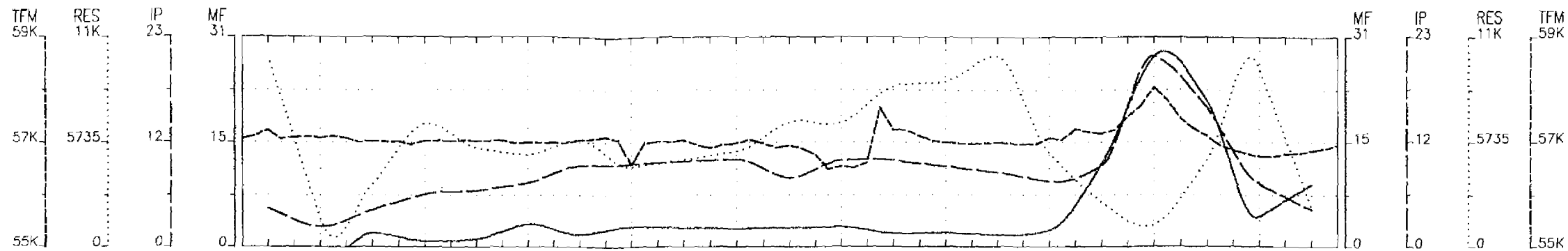


Metal Factor  
IP/Resistivity

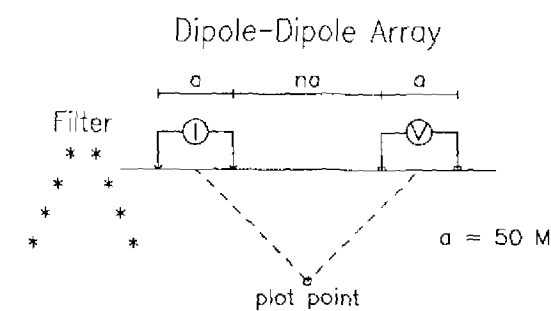


**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
 South Grid, Crerar Twp., ON  
 Processing Date: 00/06/05  
 Drawing Number: QG-112-IP-DD-Line 1600 E  
**QUANTEC GEOSCIENCE INC.**

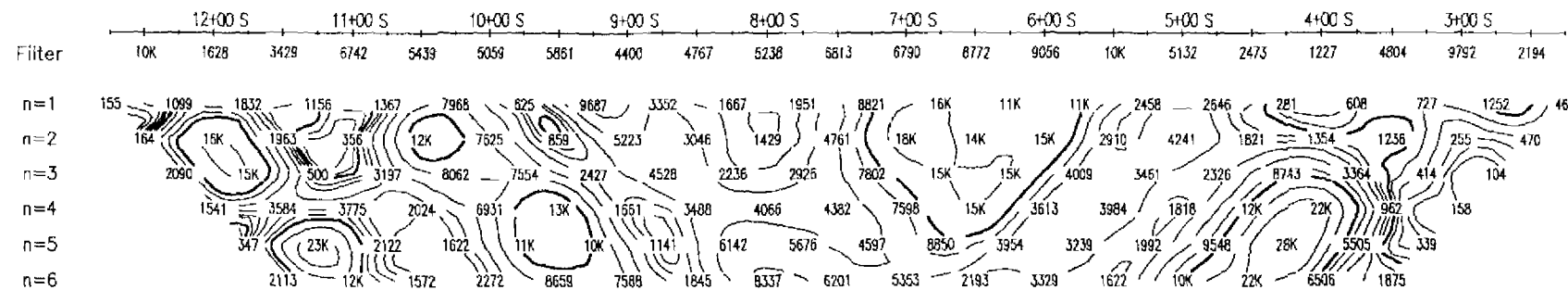




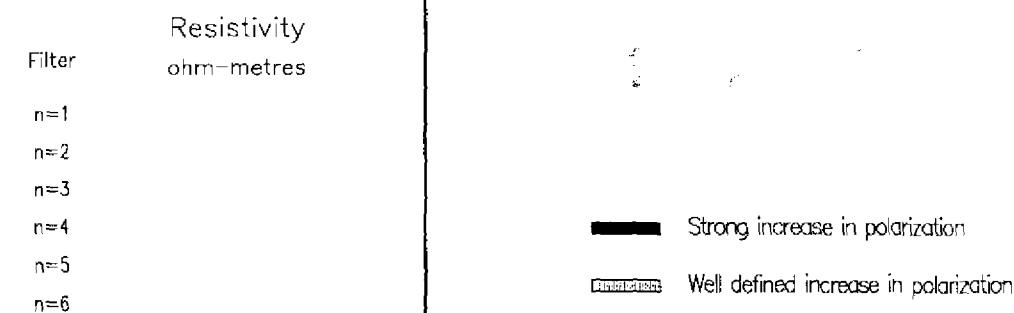
Line 1800 E



Resistivity  
ohm-metres



Resistivity  
ohm-metres



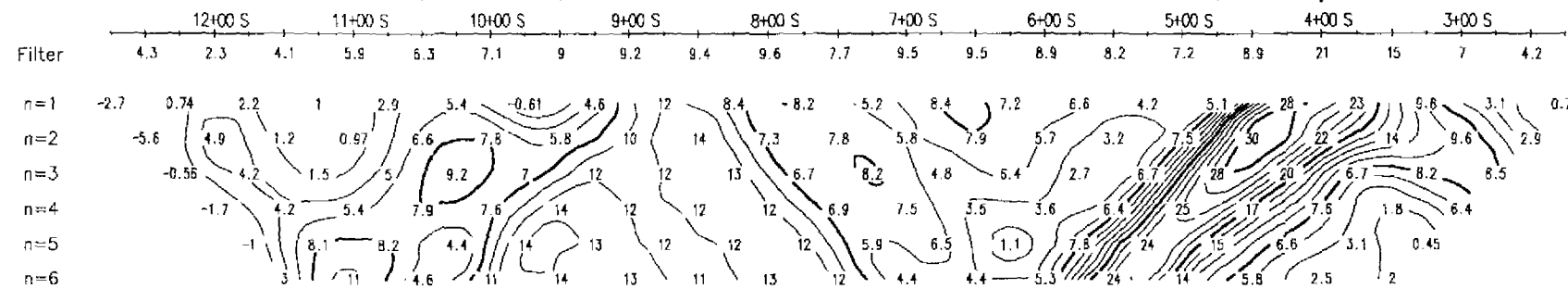
Interpretation  
QGI:



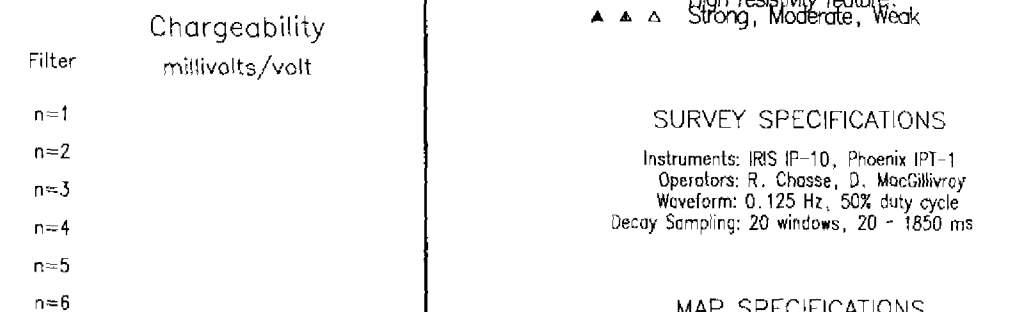
Interpretation  
QGI:

- ▬ Strong increase in polarization
- ▬ Well defined increase in polarization
- ▬ Poorly defined polarization increase
- ▼ Low resistivity feature  
Strong, Moderate, Weak
- ▲ High resistivity feature  
Strong, Moderate, Weak

Chargeability  
millivolts/volt



Chargeability  
millivolts/volt



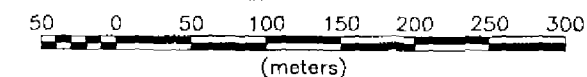
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

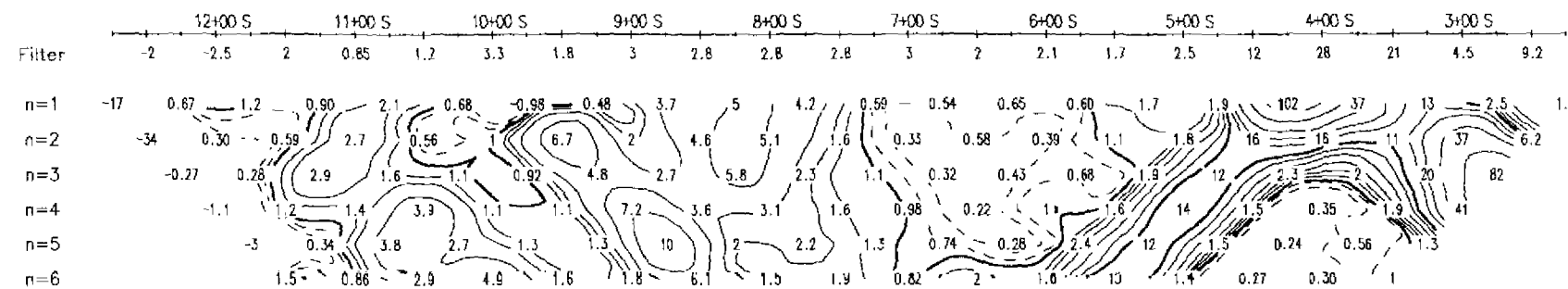
MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10,...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10,...)

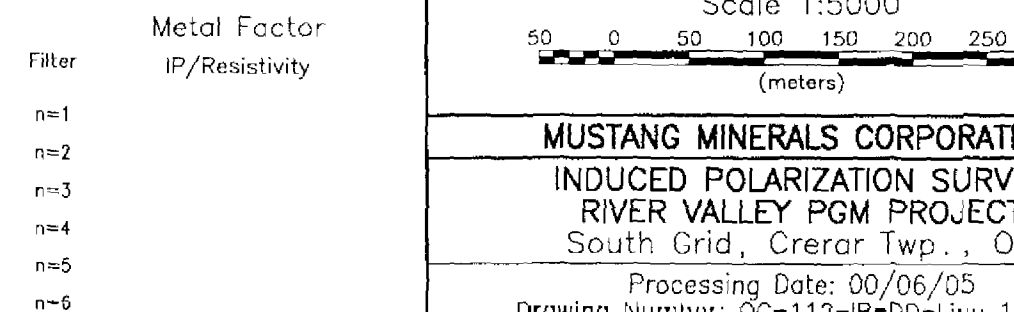
Scale 1:5000



Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

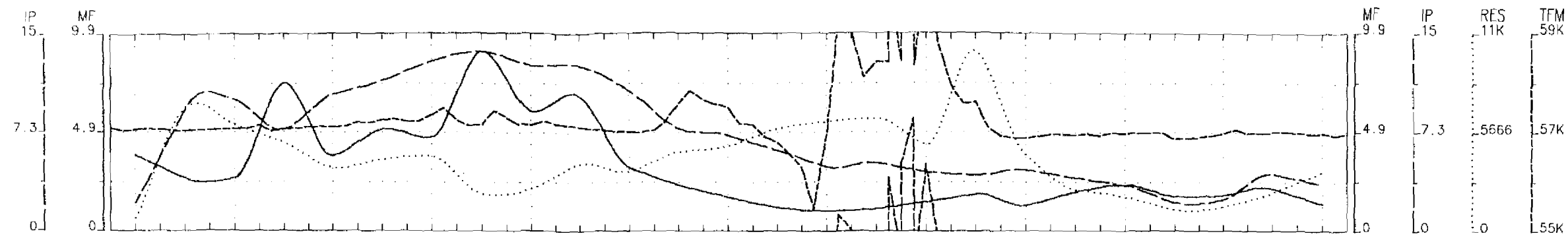


**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
South Grid, Crerar Twp., ON

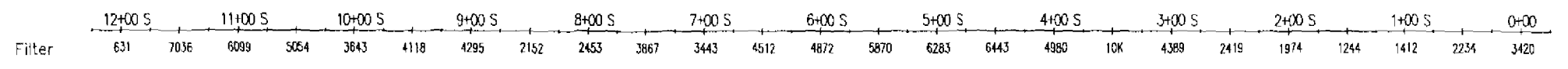
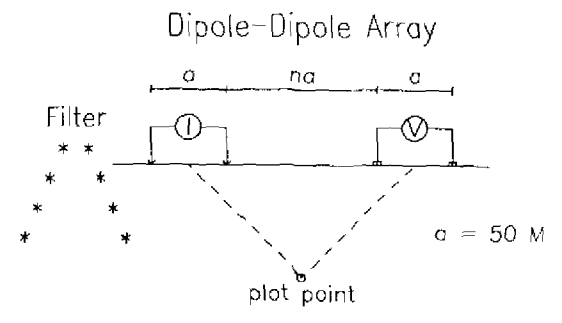
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 1800 E

**QUANTEC GEOSCIENCE INC.**

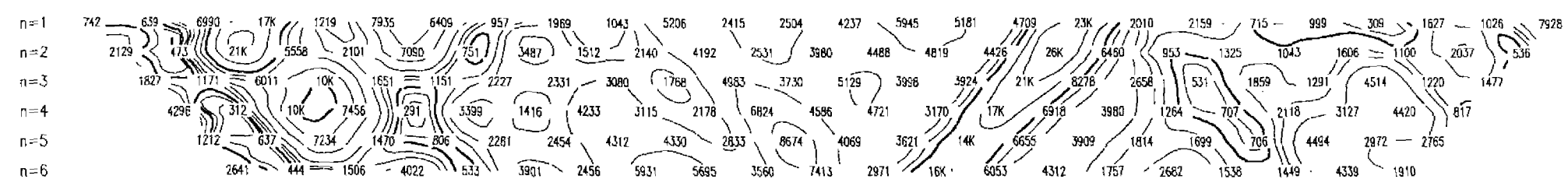




Line 2000 E

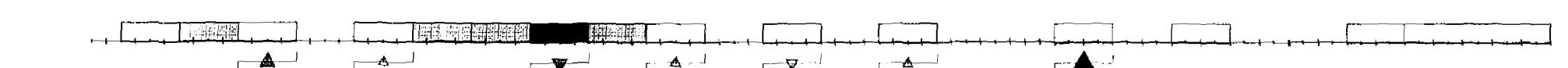


Resistivity  
ohm-metres

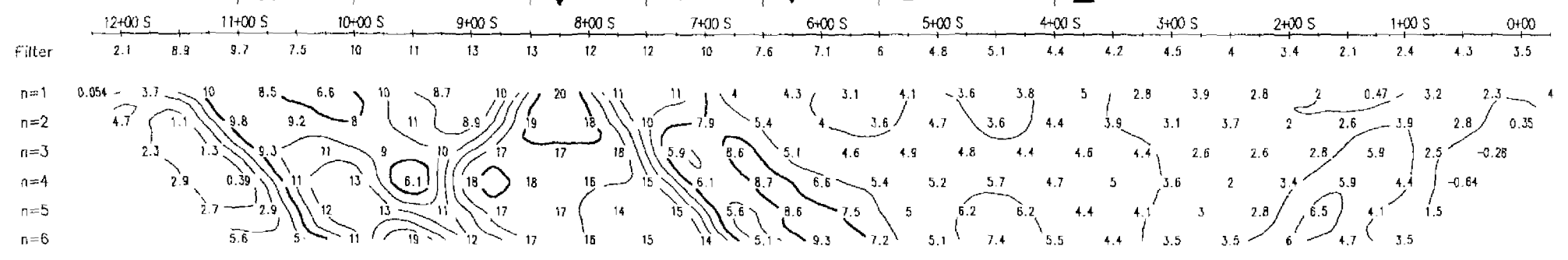


Interpretation  
QGI:

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak



Chargeability  
millivolts/volt



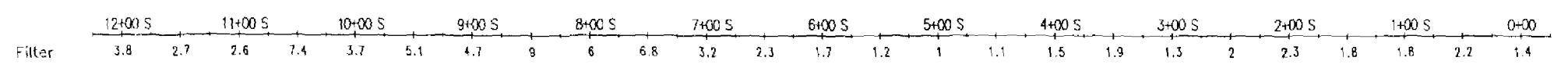
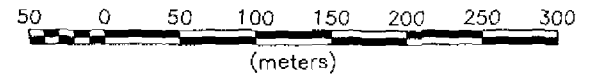
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

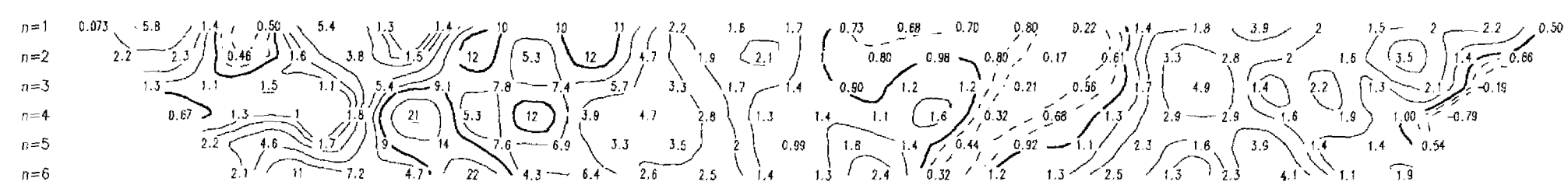
MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000



Metal Factor  
IP/Resistivity

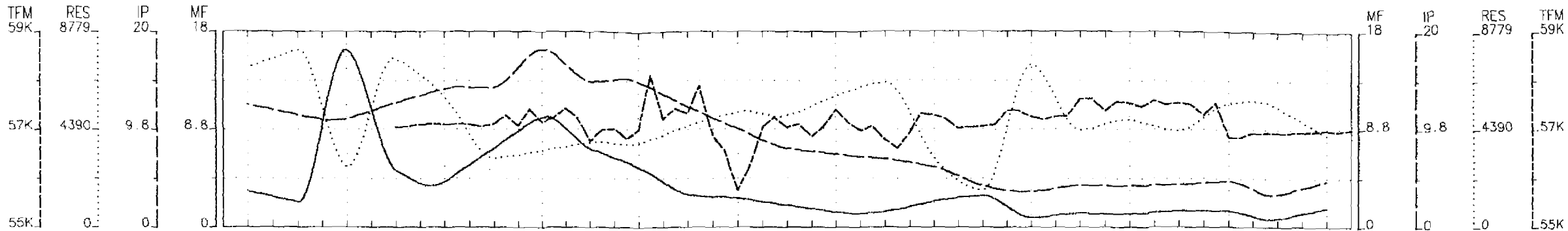


**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
South Grid, Crerar Twp., ON

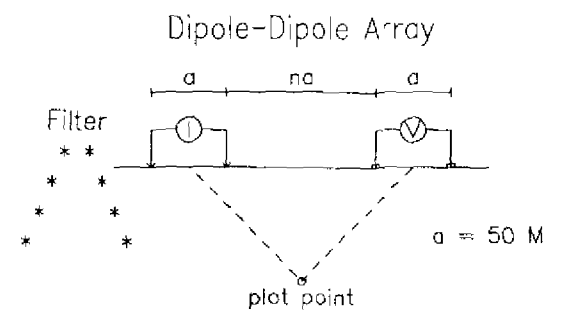
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 2000 E

**QUANTEC GEOSCIENCE INC.**

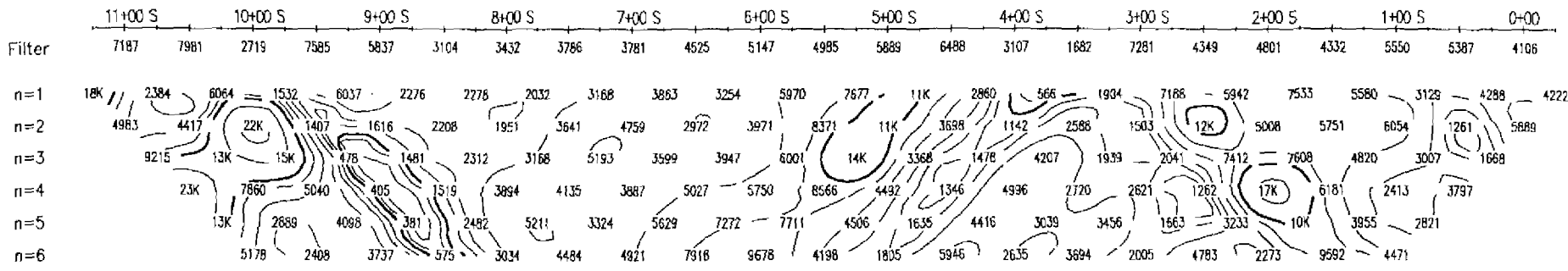




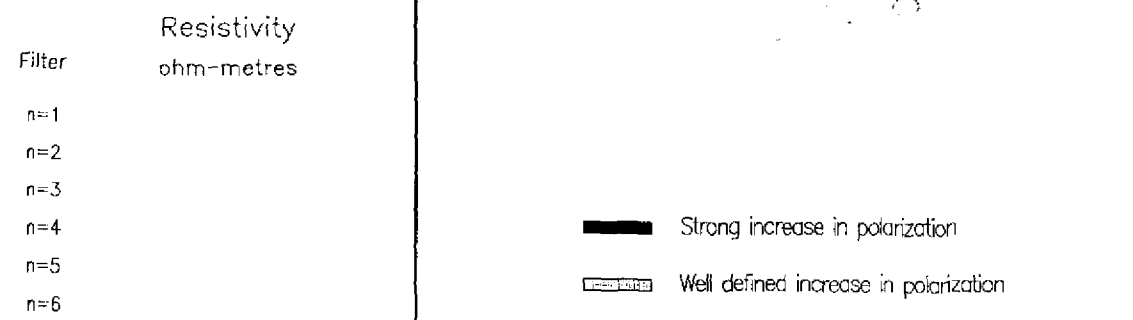
Line 2200 E



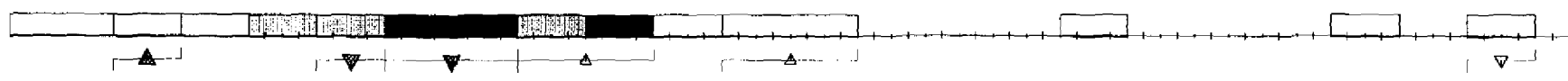
Resistivity  
ohm-metres



Resistivity  
ohm-metres



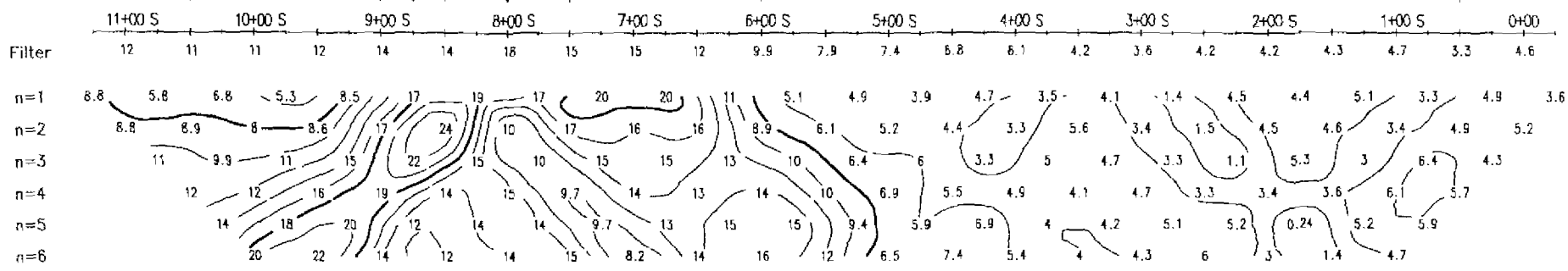
Interpretation  
QGI:



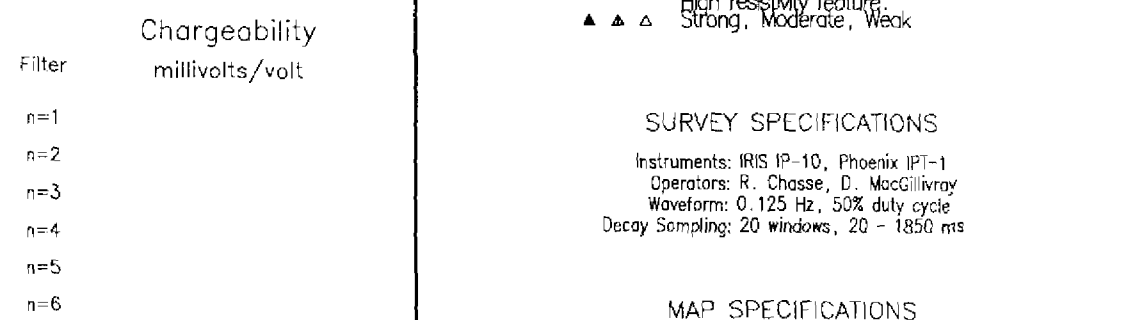
Interpretation  
QGI:

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature, Strong, Moderate, Weak
- High resistivity feature, Strong, Moderate, Weak

Chargeability  
millivolts/volt



Chargeability  
millivolts/volt



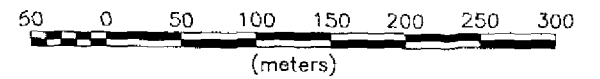
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

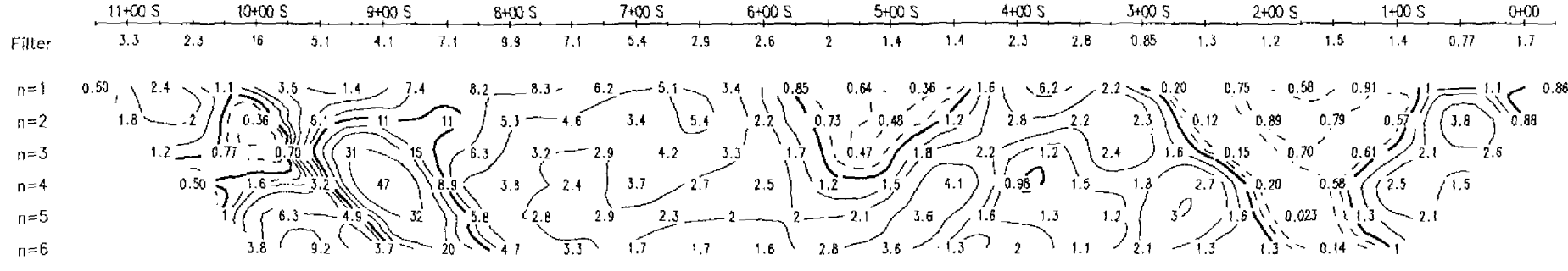
MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10,...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10,...)

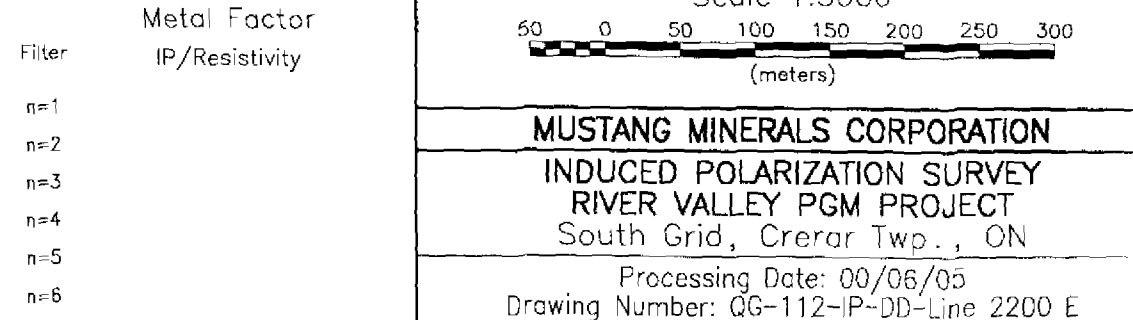
Scale 1:5000



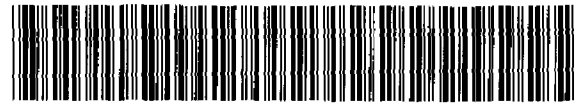
Metal Factor  
IP/Resistivity

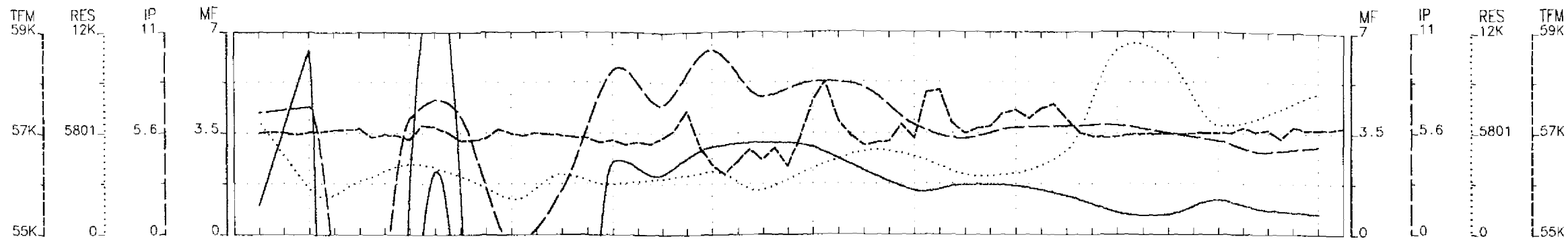


Metal Factor  
IP/Resistivity

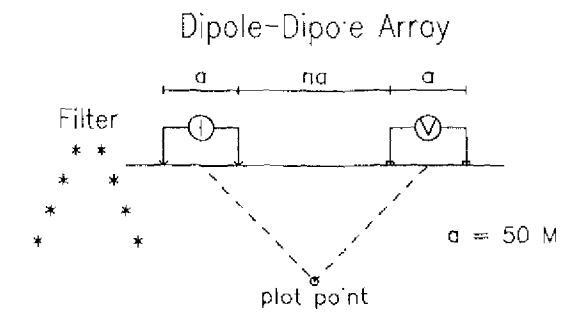


**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
South Grid, Crerar Twp., ON  
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 2200 E  
 **QUANTEC GEOSCIENCE INC.**

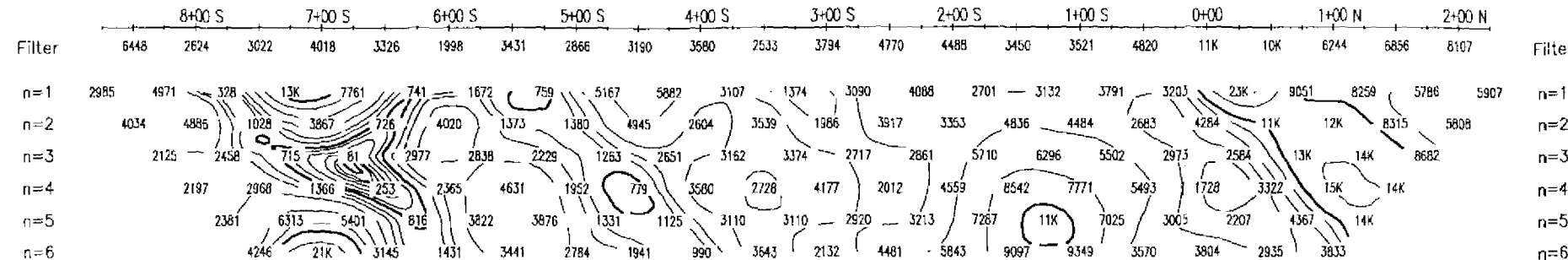




Line 2400 E



Resistivity  
ohm-metres



Resistivity  
ohm-metres

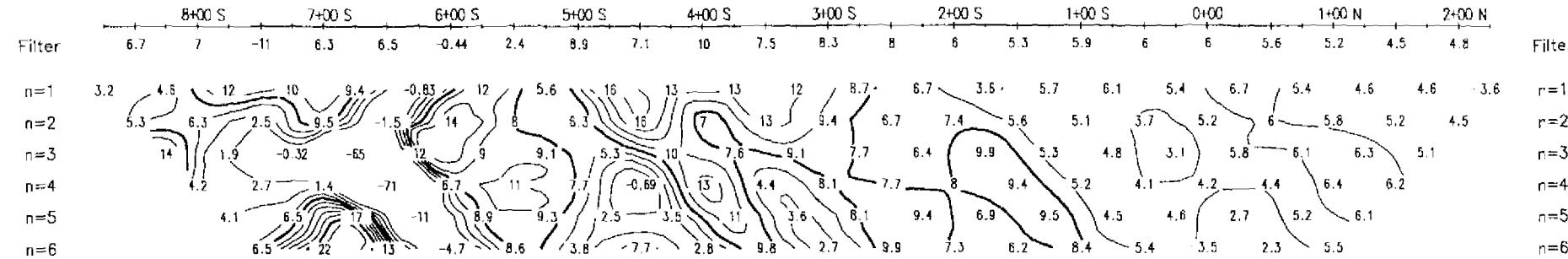
Interpretation  
QGI:



Interpretation  
QGI:

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

Chargeability  
millivolts/volt



Chargeability  
millivolts/volt

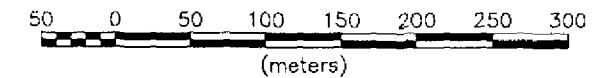
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

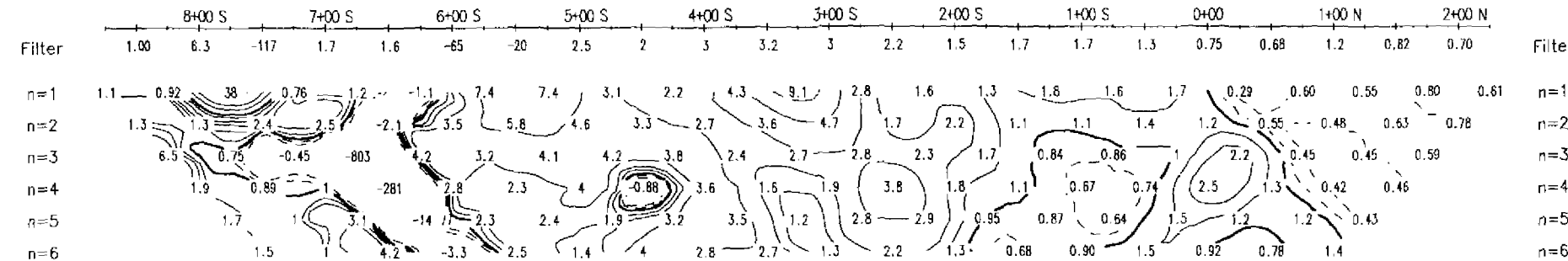
MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000



Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

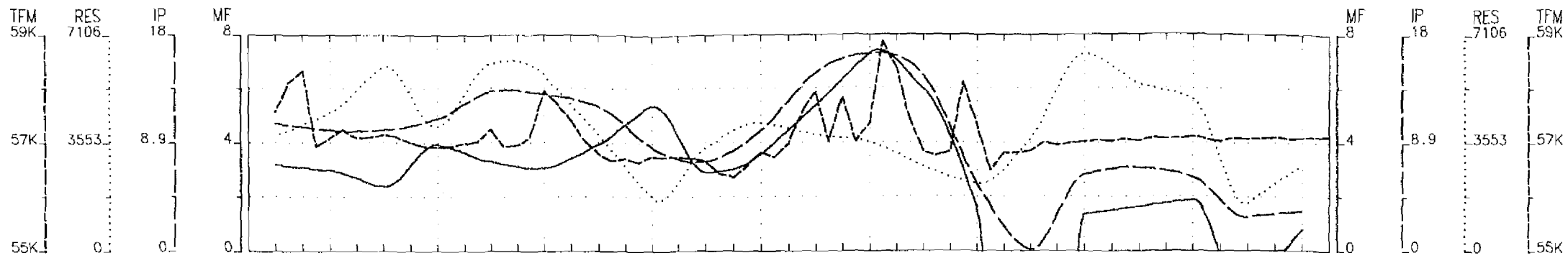
MUSTANG MINERALS CORPORATION

INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
South Grid, Crerar Twp., ON

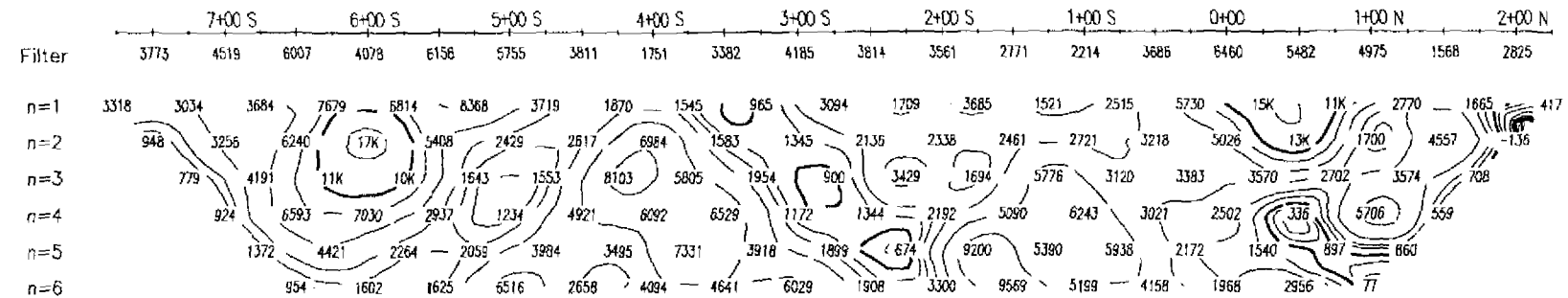
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 2400 E

QUANTEC GEOSCIENCE INC.

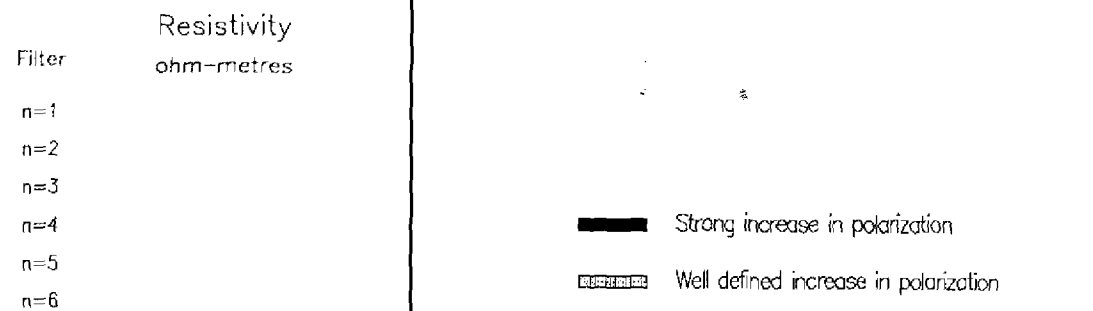




Resistivity  
ohm-metres



Resistivity  
ohm-metres



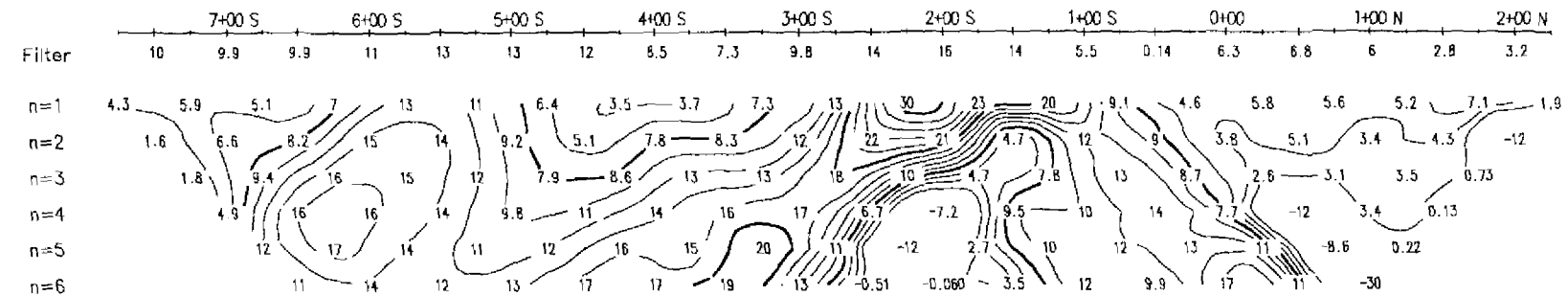
Interpretation  
QGI:



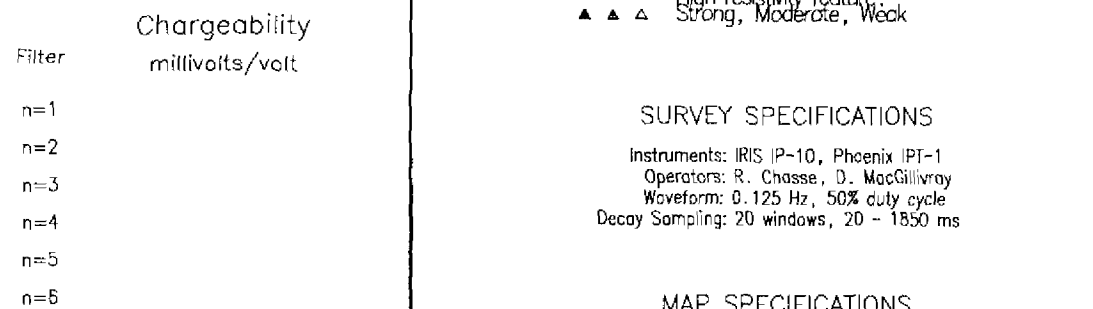
Interpretation  
QGI:

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature, Strong, Moderate, Weak
- High resistivity feature, Strong, Moderate, Weak

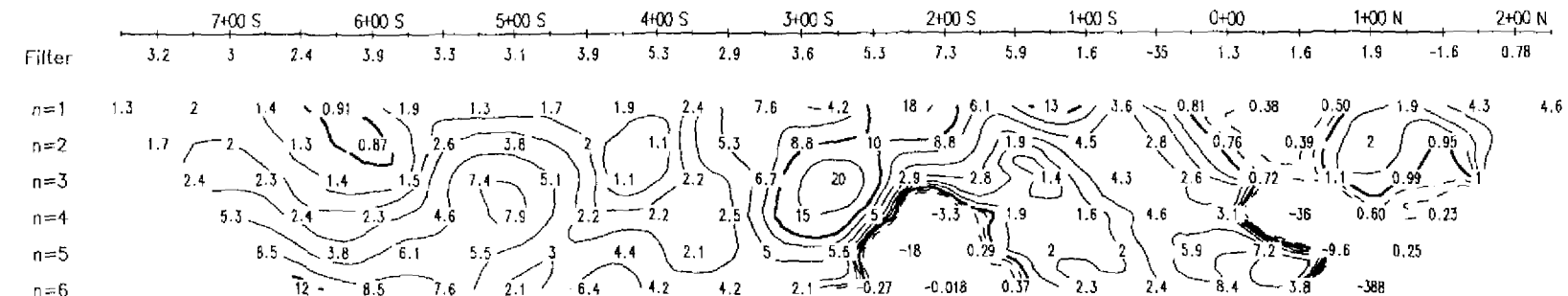
Chargeability  
millivolts/volt



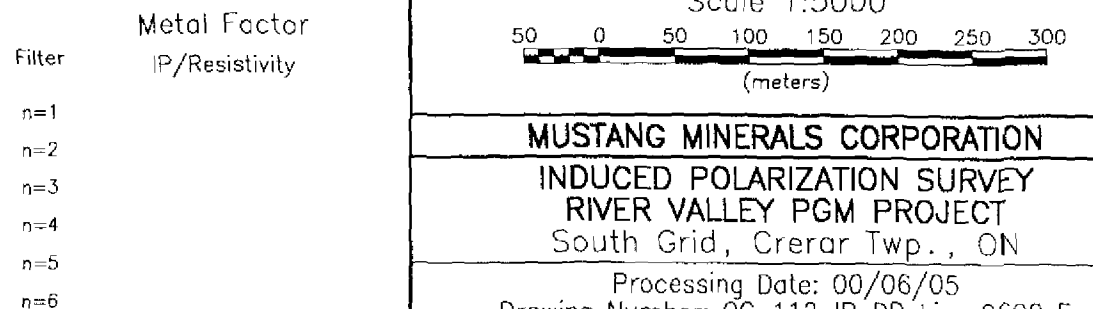
Chargeability  
millivolts/volt



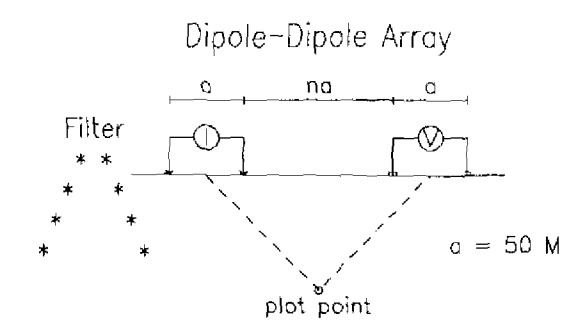
Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity



### Line 2600 E

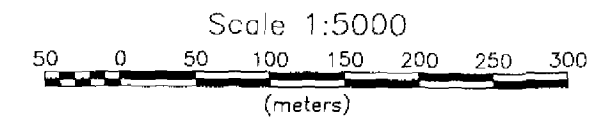


#### SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

#### MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)



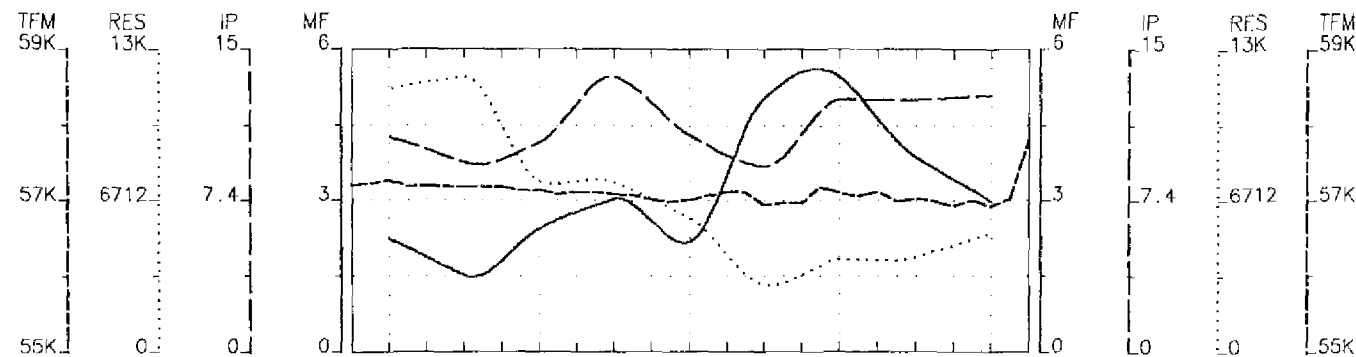
**MUSTANG MINERALS CORPORATION**

**INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
South Grid, Crerar Twp., ON**

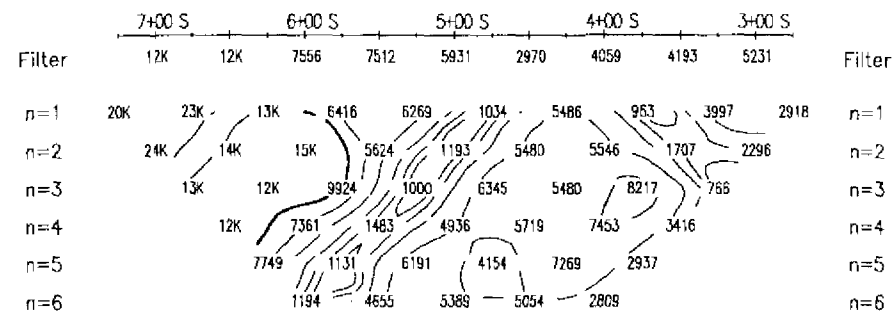
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 2600 E

**QUANTEC GEOSCIENCE INC.**



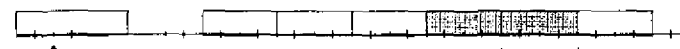


Resistivity  
ohm-metres



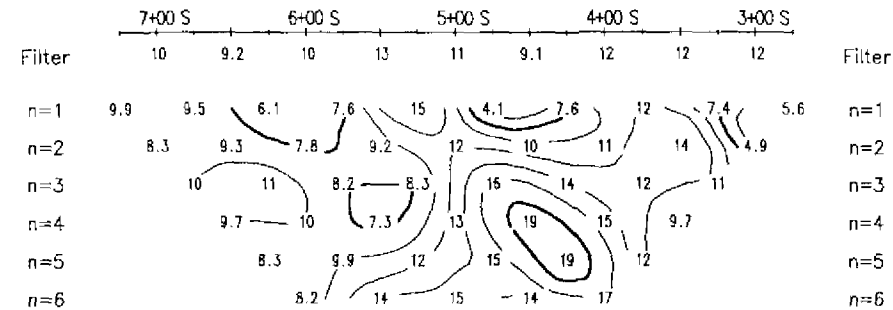
Resistivity  
ohm-metres

Interpretation  
QGI:



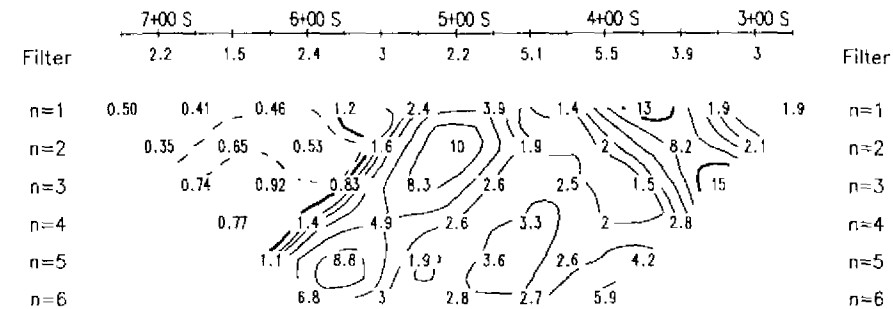
Interpretation  
QGI:

Chargeability  
millivolts/volt



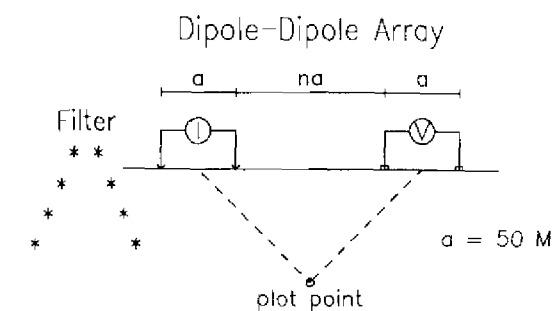
Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

### Line 2800 E



- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

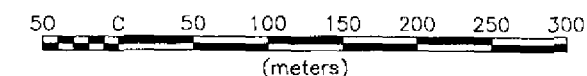
#### SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

#### MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000



**MUSTANG MINERALS CORPORATION**

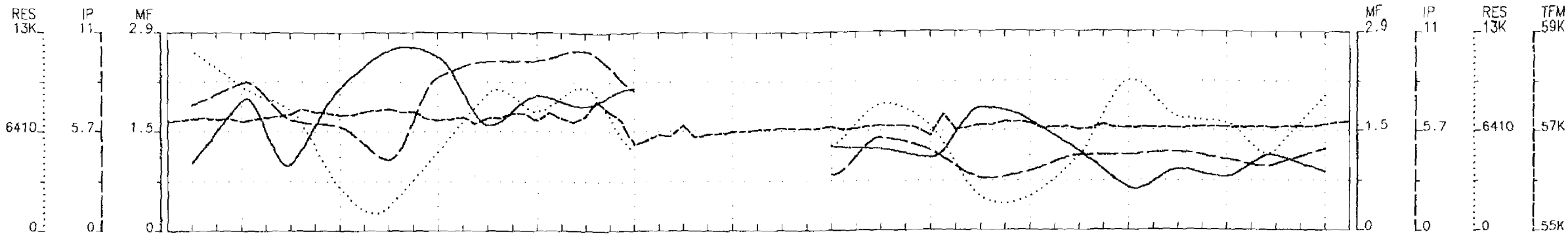
**INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
South Grid, Crerar Twp., ON**

Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 2800 E

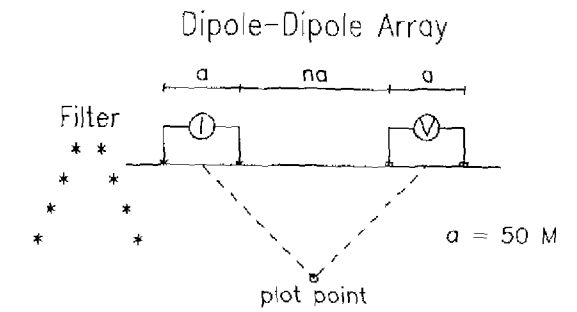
**QUANTEC GEOSCIENCE INC.**





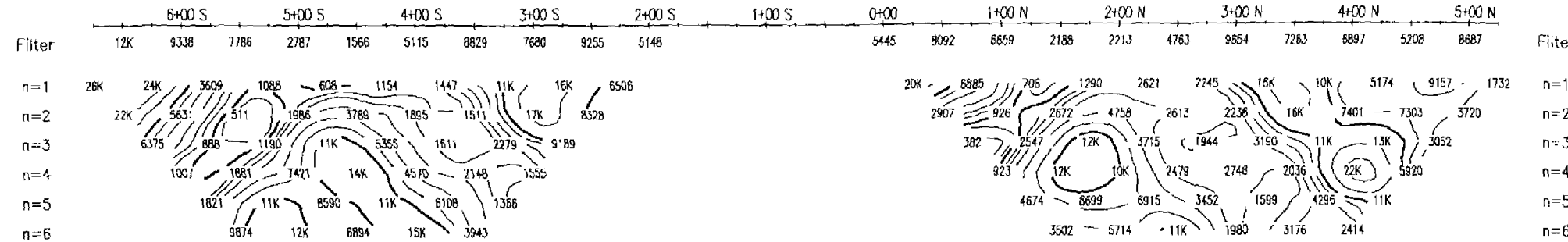


Line 3000 E



Resistivity  
ohm-metres

Resistivity  
ohm-metres



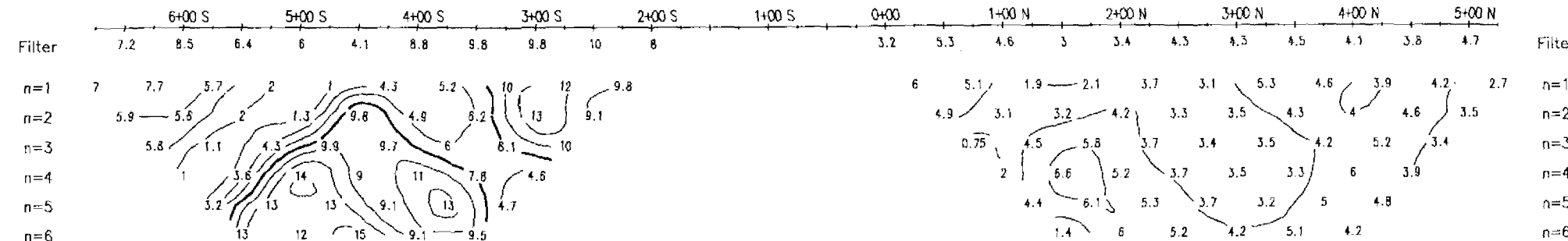
Interpretation

Interpretation  
QGI:

- ▬ Strong increase in polarization
- ▬ Well defined increase in polarization
- ▬ Poorly defined polarization increase
- ▼ ▼ ▼ Low resistivity feature  
Strong, Moderate, Weak
- ▲ ▲ ▲ High resistivity feature  
Strong, Moderate, Weak

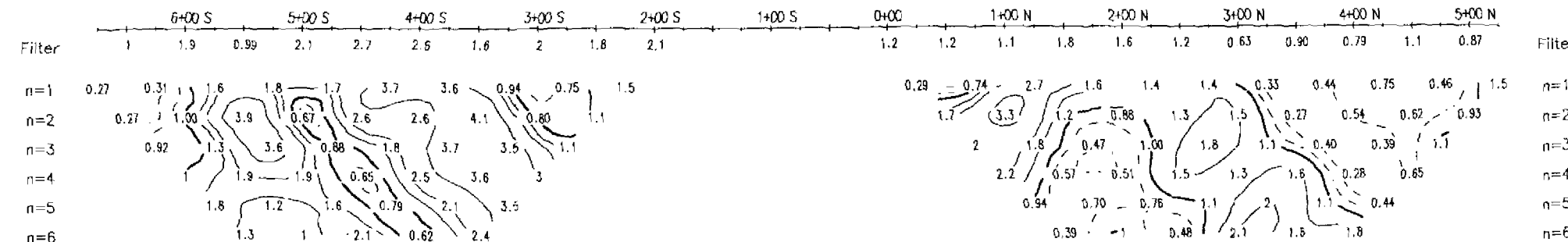
Chargeability  
volts/volt

Chargeability  
millivolts/volt



Metal Factor  
Resistivity

Metal Factor  
IP/Resistivity



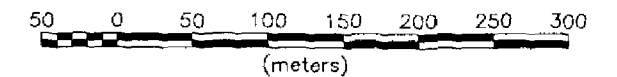
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000



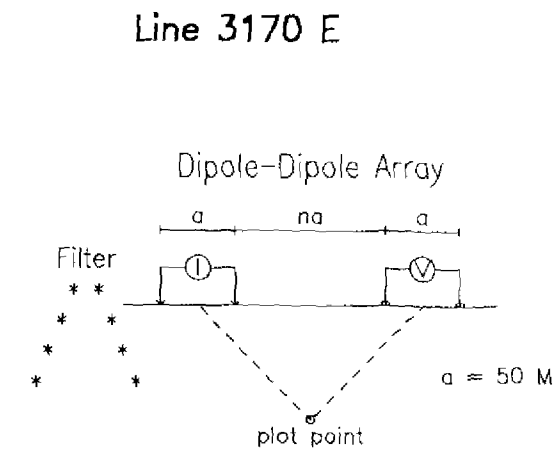
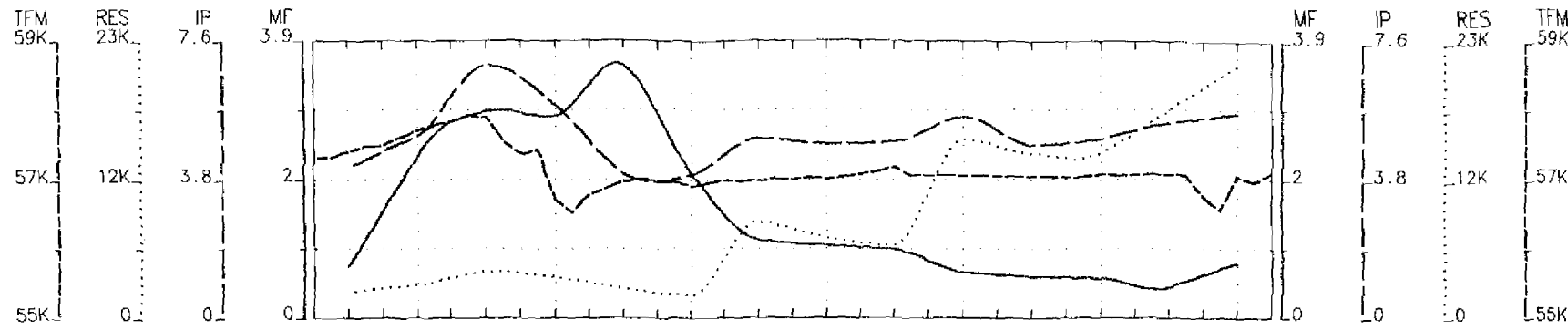
**MUSTANG MINERALS CORPORATION**

**INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT**  
South Grid, Crerar Twp., ON

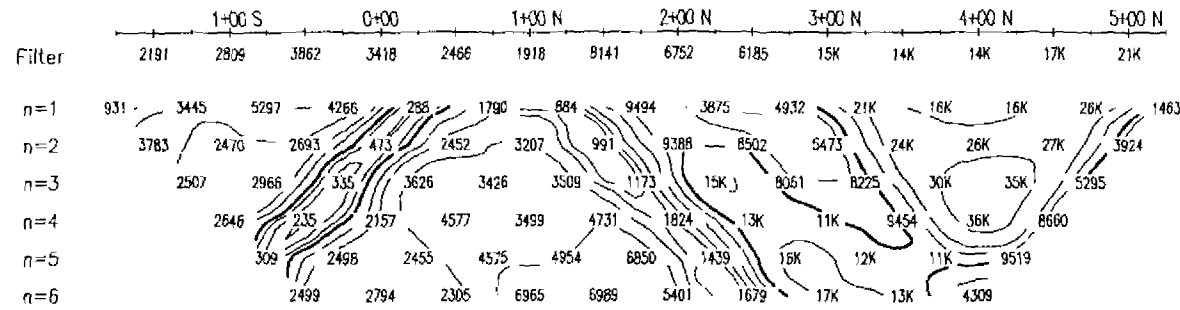
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 3000 E

**QUANTEC GEOSCIENCE INC.**

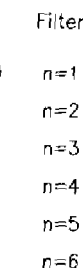




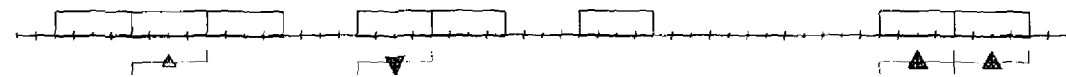
Resistivity  
ohm-metres



Resistivity  
ohm-metres

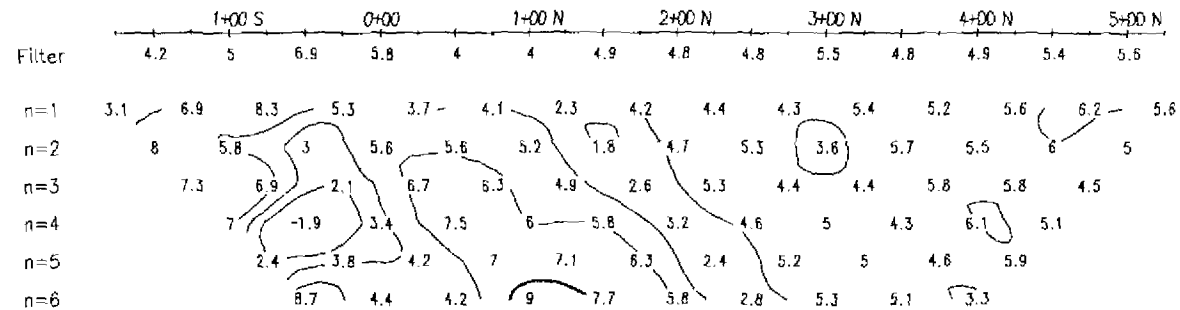


Interpretation  
QGI:



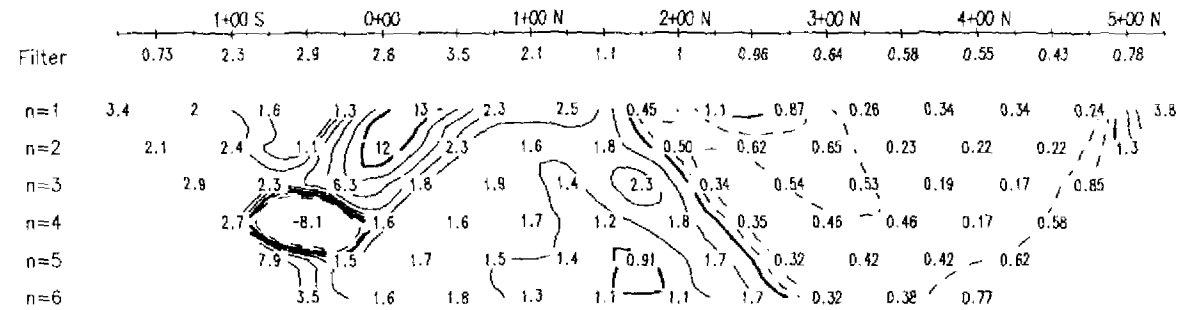
Interpretation  
QGI:

Chargeability  
millivolts/volt



Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

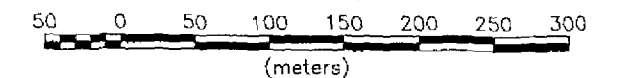
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000

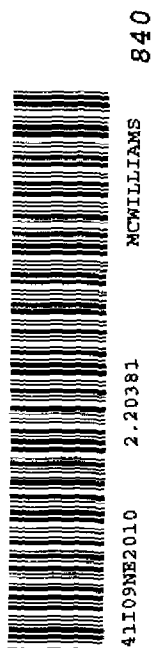


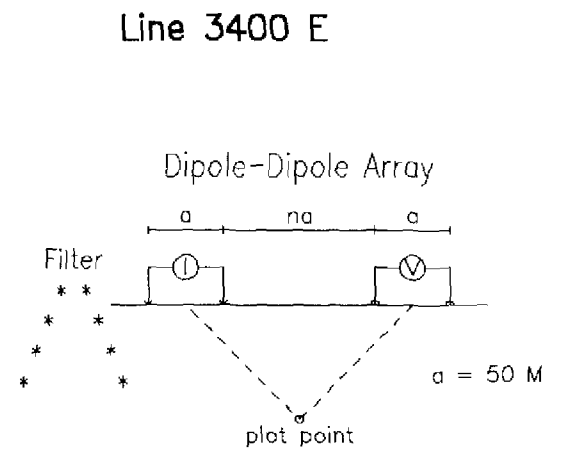
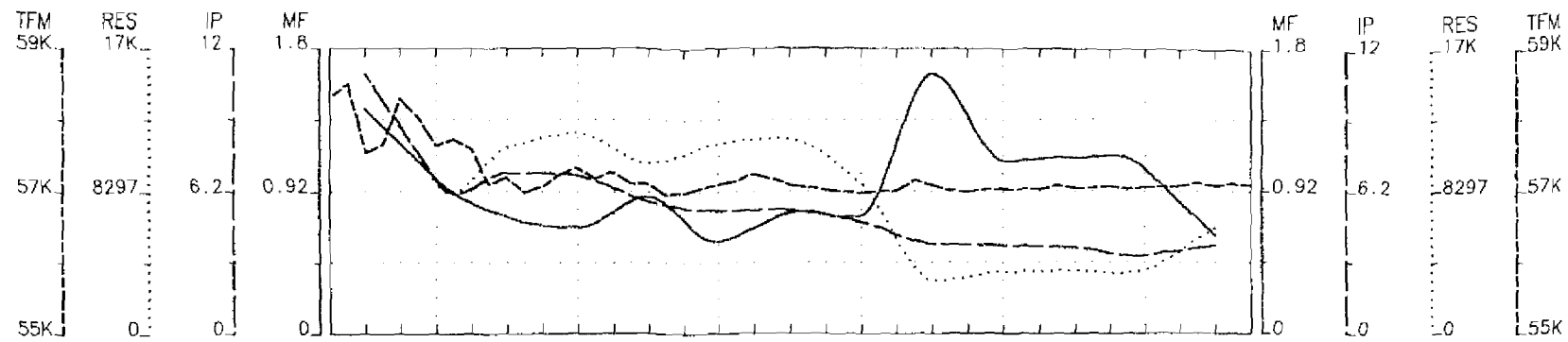
MUSTANG MINERALS CORPORATION

INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
South Grid, Crerar Twp., ON

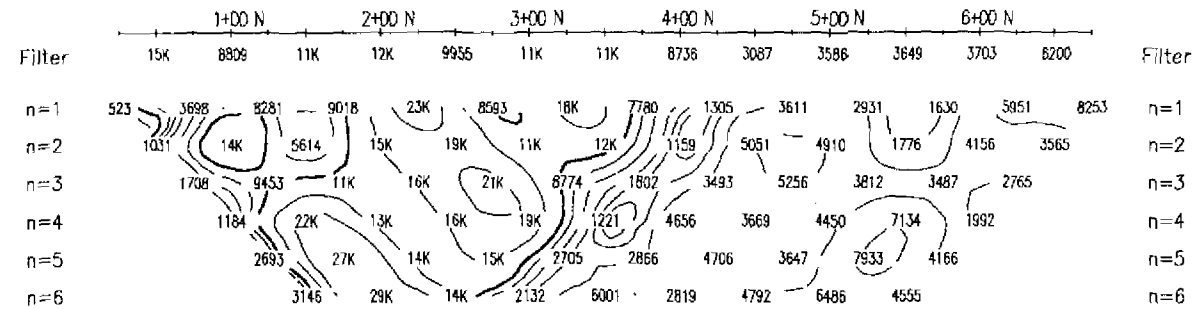
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 3170 E

QUANTEC GEOSCIENCE INC.



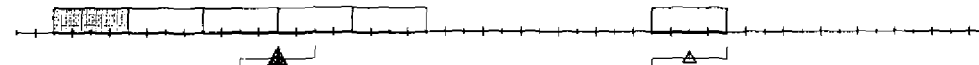


Resistivity  
ohm-metres



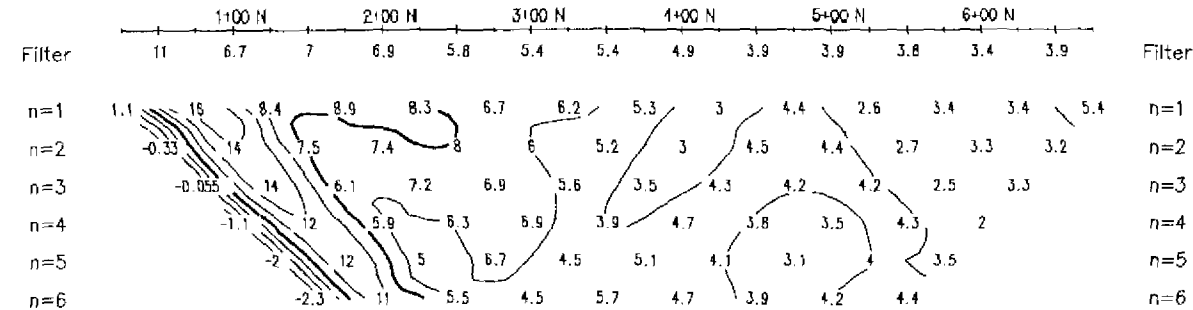
Resistivity  
ohm-metres

Interpretation  
QGI:



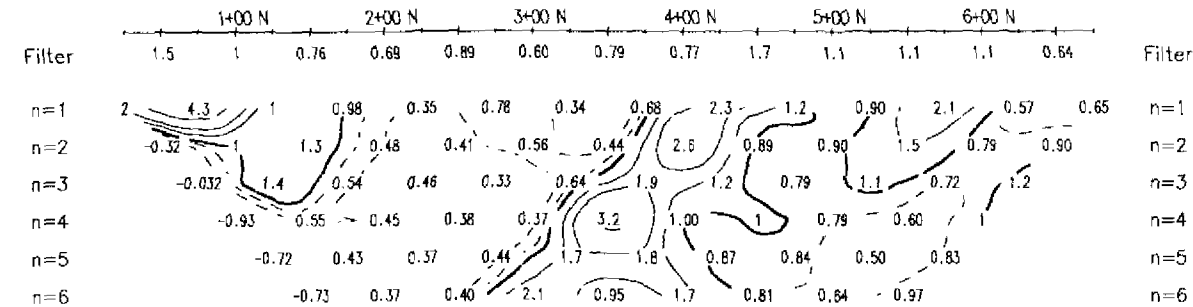
Interpretation  
QGI:

Chargeability  
millivolts/volt



Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

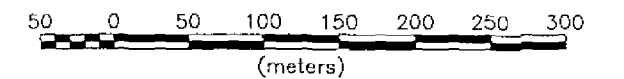
**SURVEY SPECIFICATIONS**

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

**MAP SPECIFICATIONS**

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000



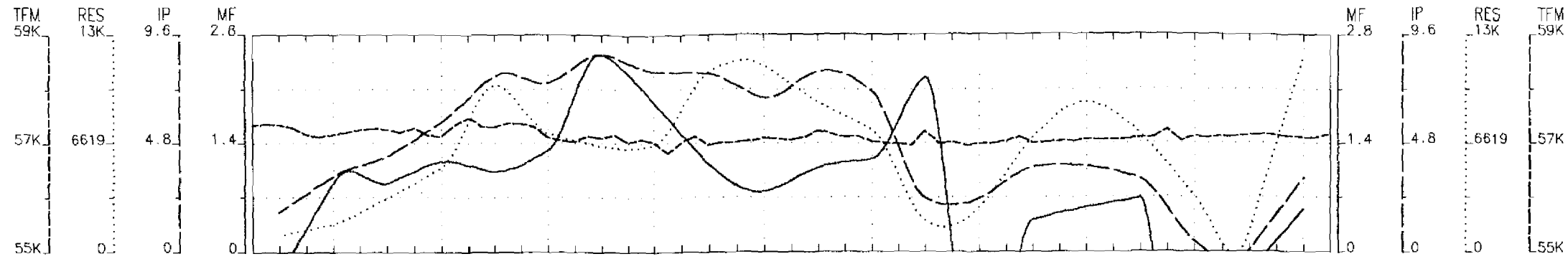
**MUSTANG MINERALS CORPORATION**

**INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
South Grid, Crerar Twp., ON**

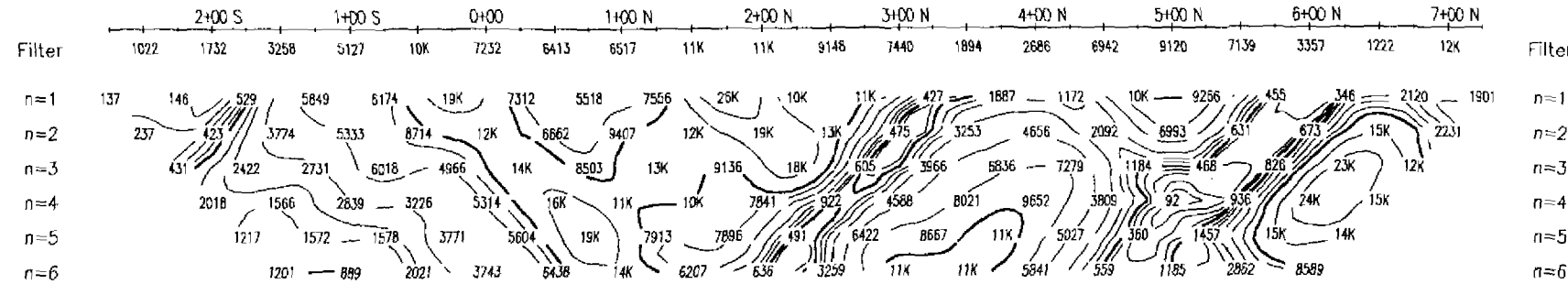
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 3400 E

**QUANTEC GEOSCIENCE INC.**



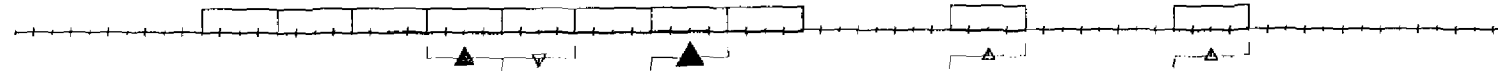


Resistivity  
ohm-metres



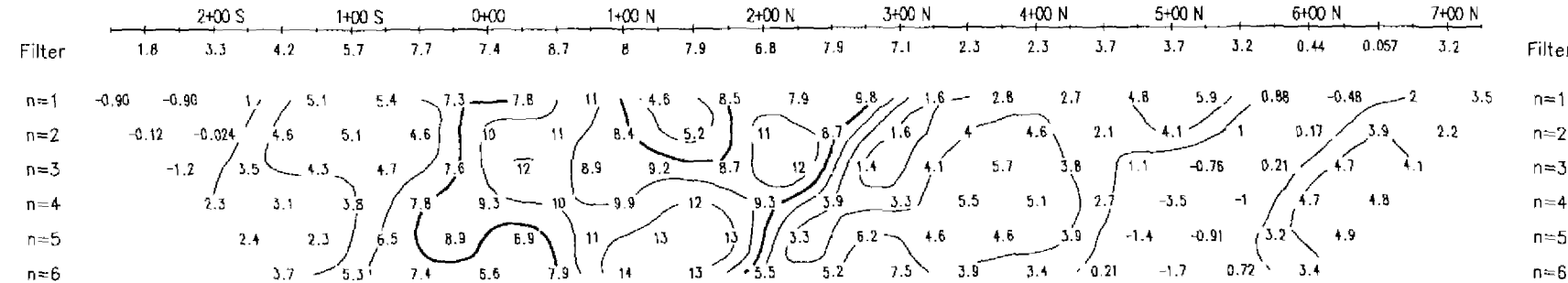
Resistivity  
ohm-metres

Interpretation  
QGI:



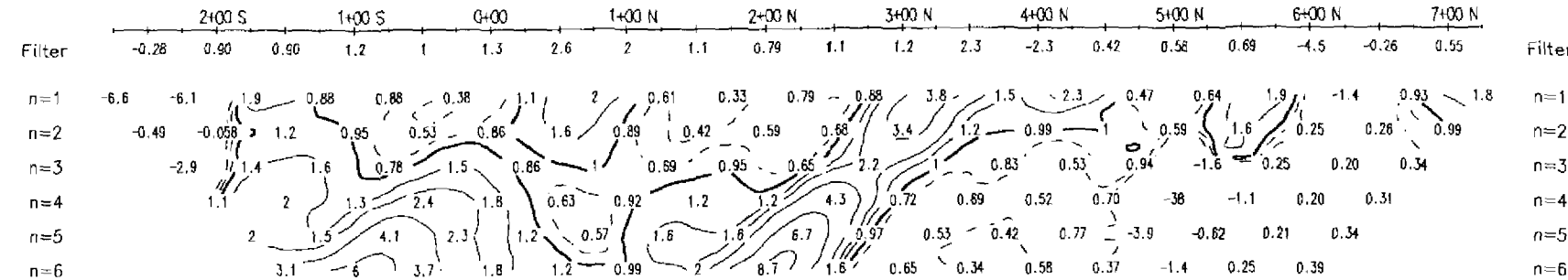
Interpretation  
QGI:

Chargeability  
millivolts/volt



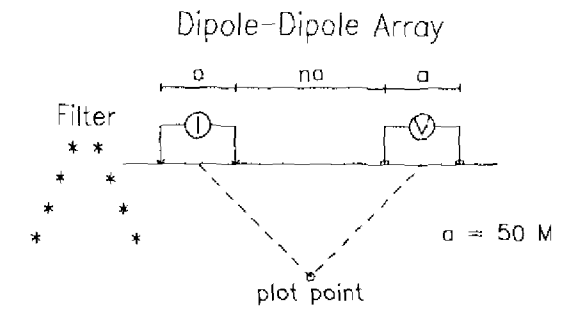
Chargeability  
millivolts/volt

Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity

### Line 3600 E



- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature  
Strong, Moderate, Weak
- High resistivity feature  
Strong, Moderate, Weak

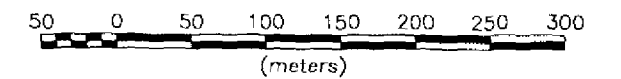
#### SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

#### MAP SPECIFICATIONS

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10, ...)

Scale 1:5000



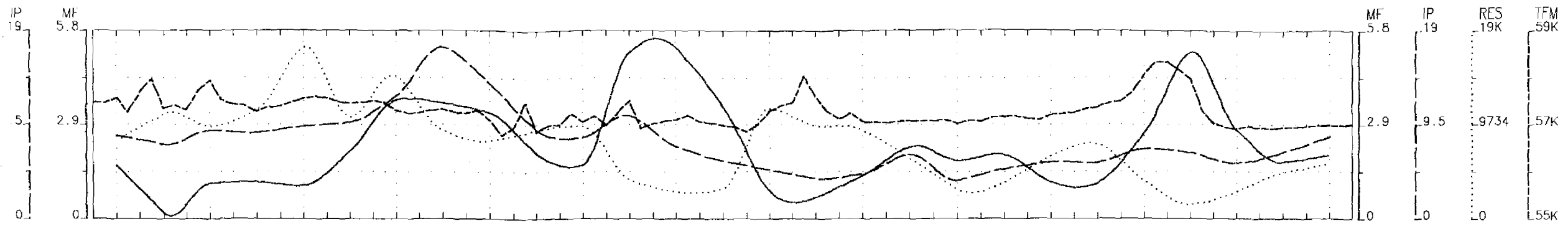
**MUSTANG MINERALS CORPORATION**

**INDUCED POLARIZATION SURVEY  
RIVER VALLEY PGM PROJECT  
South Grid, Crerar Twp., ON**

Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 3600 E

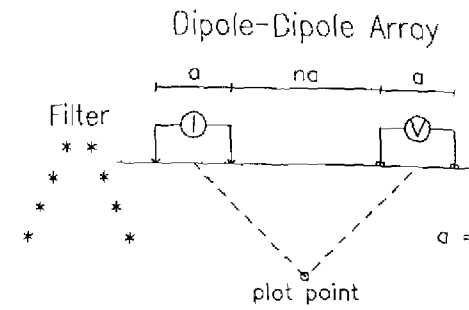
**QUANTEC GEOSCIENCE INC.**



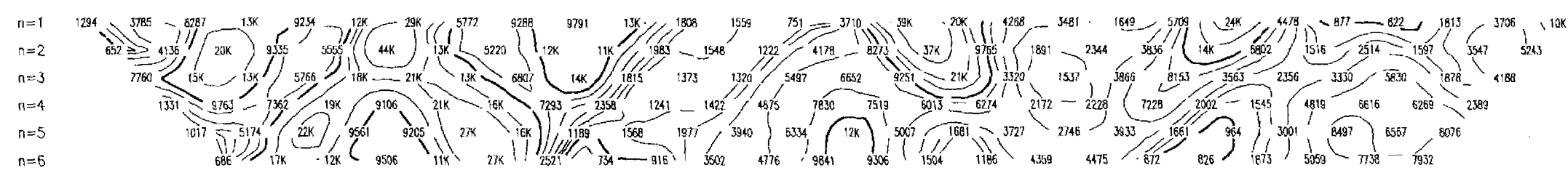


MF 5.8  
IP 19  
RES 19K  
TFM 59K

Line 3800 E



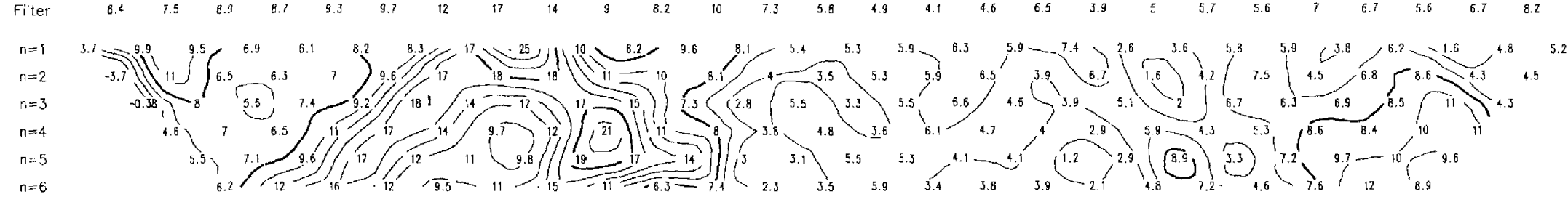
Filter 8059 11K 9524 11K 18K 10K 15K 9112 8059 9127 9531 4067 2803 3144 11K 9627 9128 6259 3062 3785 6396 7642 3904 1457 2857 4795 5894



Resistivity  
ohm-metres

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

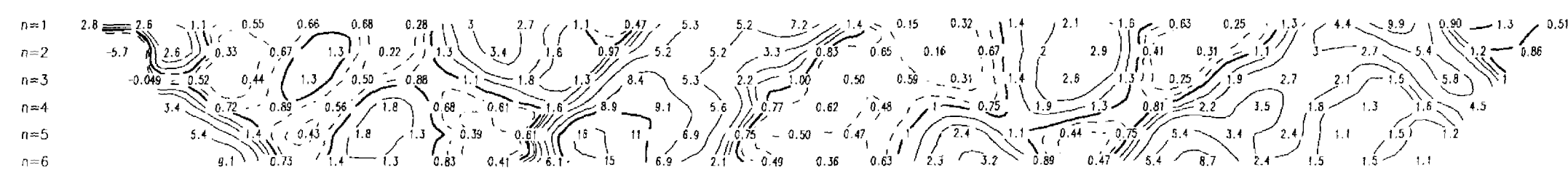
Filter 8.4 7.5 8.9 8.7 9.3 9.7 12 17 14 9 8.2 10 7.3 5.8 4.9 4.1 4.6 6.5 3.9 5 5.7 5.6 7 6.7 5.6 6.7 8.2



Interpretation  
QGI:  
Chargeability  
millivolts/volt

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

Filter 1.6 0.19 1.1 1.1 1 2 3.6 3.5 3.3 2 1.6 5.1 5.2 3.4 0.85 0.67 1.3 2.2 1.8 2 1.1 1.1 2.5 5.1 2.7 1.7 1.9



Metal Factor  
IP/Resistivity

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

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature, Strong, Moderate, Weak
- High resistivity feature, Strong, Moderate, Weak

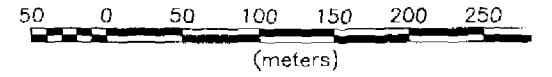
SURVEY SPECIFICATIONS

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

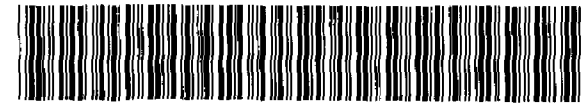
MAP SPECIFICATIONS

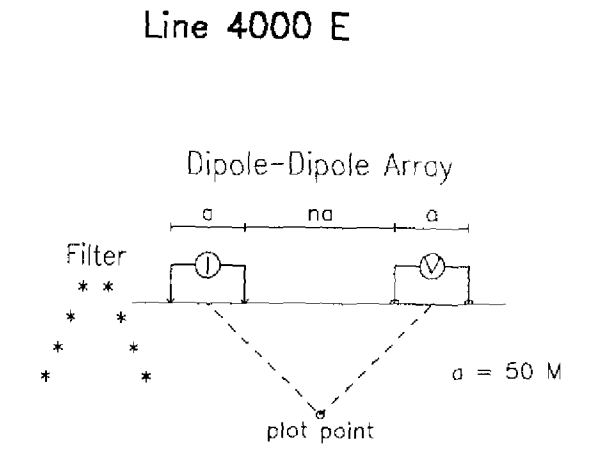
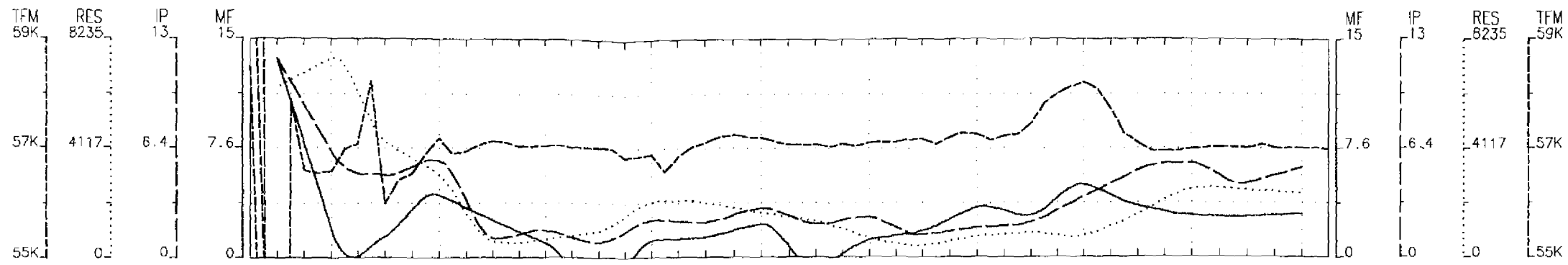
Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5)

Scale 1:5000

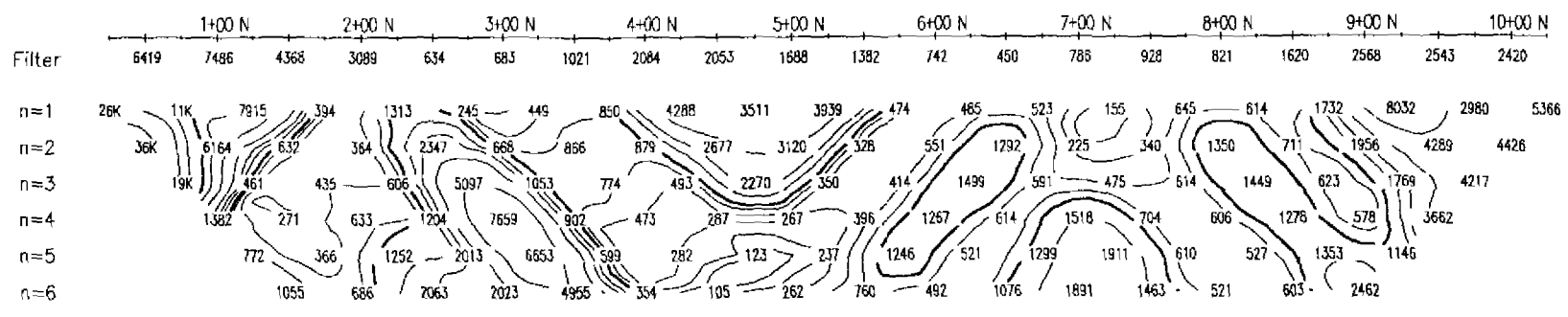


**MUSTANG MINERALS CORPORATIC**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
South Grid, Crerar Twp., ON  
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 38  
**QUANTEC GEOSCIENCE INC.**

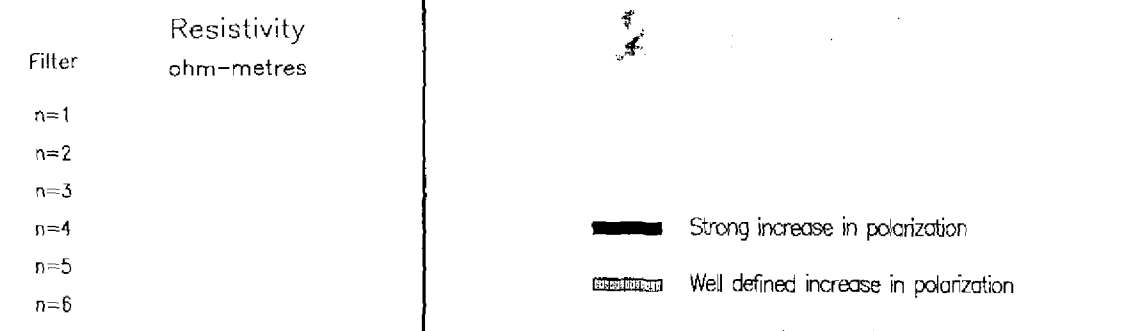




Resistivity  
ohm-metres



Resistivity  
ohm-metres



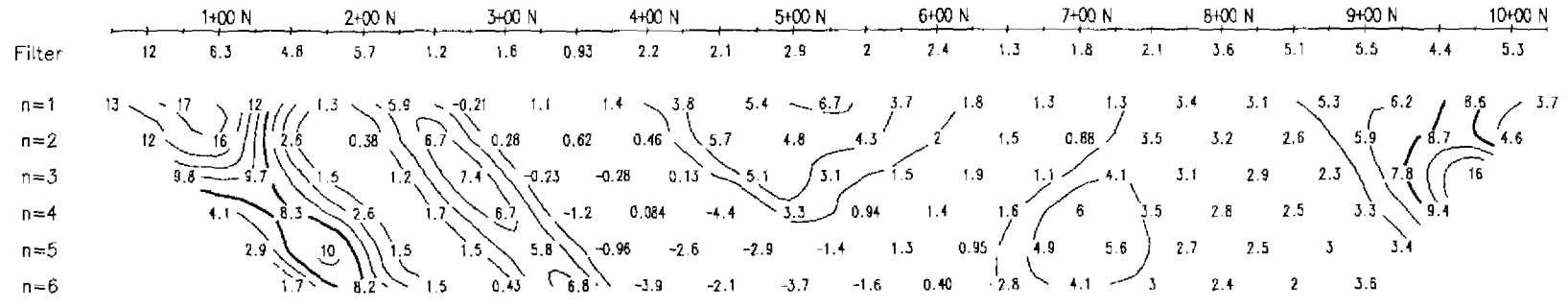
Interpretation  
QGI:



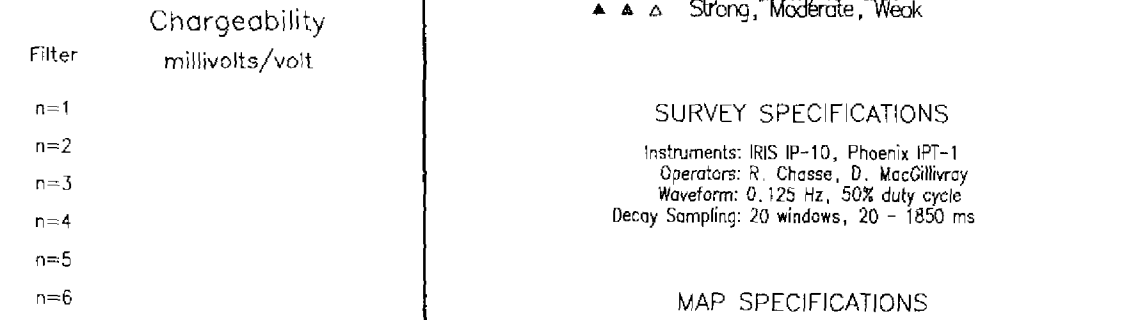
Interpretation  
QGI:

- Strong increase in polarization
- Well defined increase in polarization
- Poorly defined polarization increase
- Low resistivity feature
- Strong, Moderate, Weak
- High resistivity feature
- Strong, Moderate, Weak

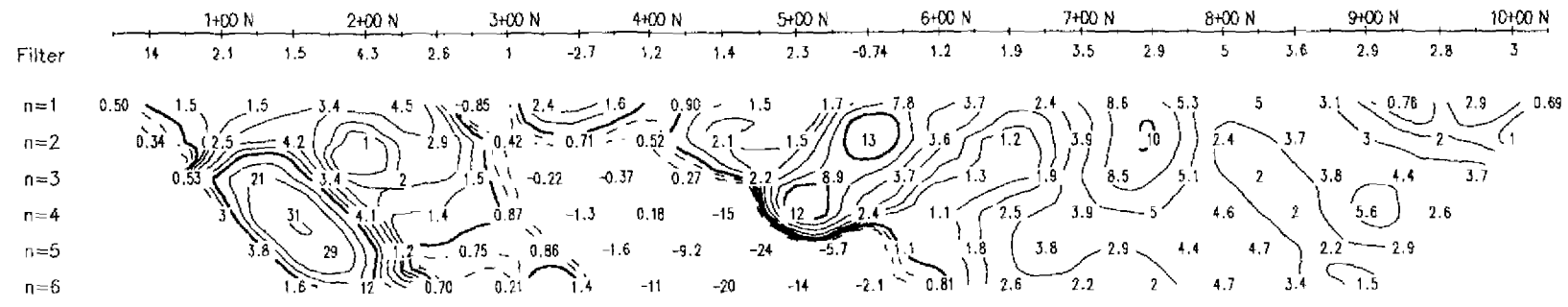
Chargeability  
millivolts/volt



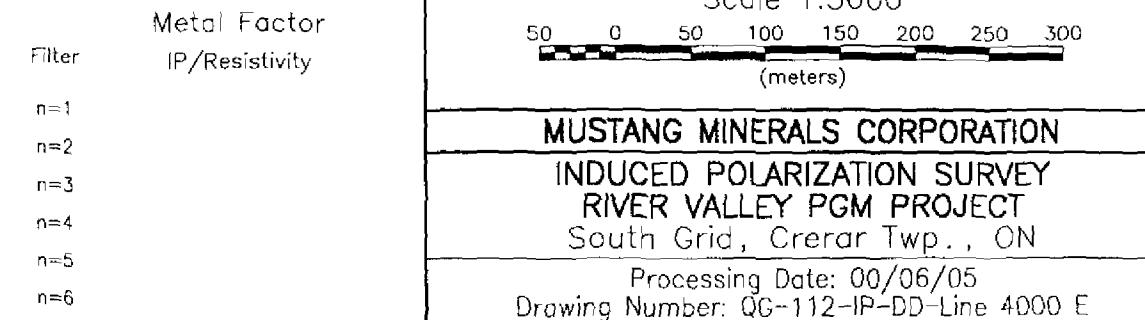
Chargeability  
millivolts/volt



Metal Factor  
IP/Resistivity



Metal Factor  
IP/Resistivity



**SURVEY SPECIFICATIONS**

Instruments: IRIS IP-10, Phoenix IPT-1  
Operators: R. Chasse, D. MacGillivray  
Waveform: 0.125 Hz, 50% duty cycle  
Decay Sampling: 20 windows, 20 - 1850 ms

**MAP SPECIFICATIONS**

Resistivity: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)  
Chargeability: Linear Contours (2 mV/V)  
Metal Factor: Logarithmic Contours (1, 1.5, 2, 3, 5, 7.5, 10...)  
Scale 1:5000  
50 0 50 100 150 200 250 300  
(meters)

**MUSTANG MINERALS CORPORATION**  
**INDUCED POLARIZATION SURVEY**  
**RIVER VALLEY PGM PROJECT**  
South Grid, Crerar Twp., ON  
Processing Date: 00/06/05  
Drawing Number: QG-112-IP-DD-Line 4000 E  
**QUANTEC GEOSCIENCE INC.**

