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# **ATACAMA RESOURCES INTERNATIONAL INC.**

## **Induced Polarization and Magnetometer Surveys**

### **Over the Allsopp-Huston Property**

### **Eby and Otto Townships, Ontario**

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## 1. SURVEY DETAILS

### 1.1 PROJECT NAME

This project is known as the **Allsopp-Huston Property**.

### 1.2 CLIENT

Atacama Resources International Inc.

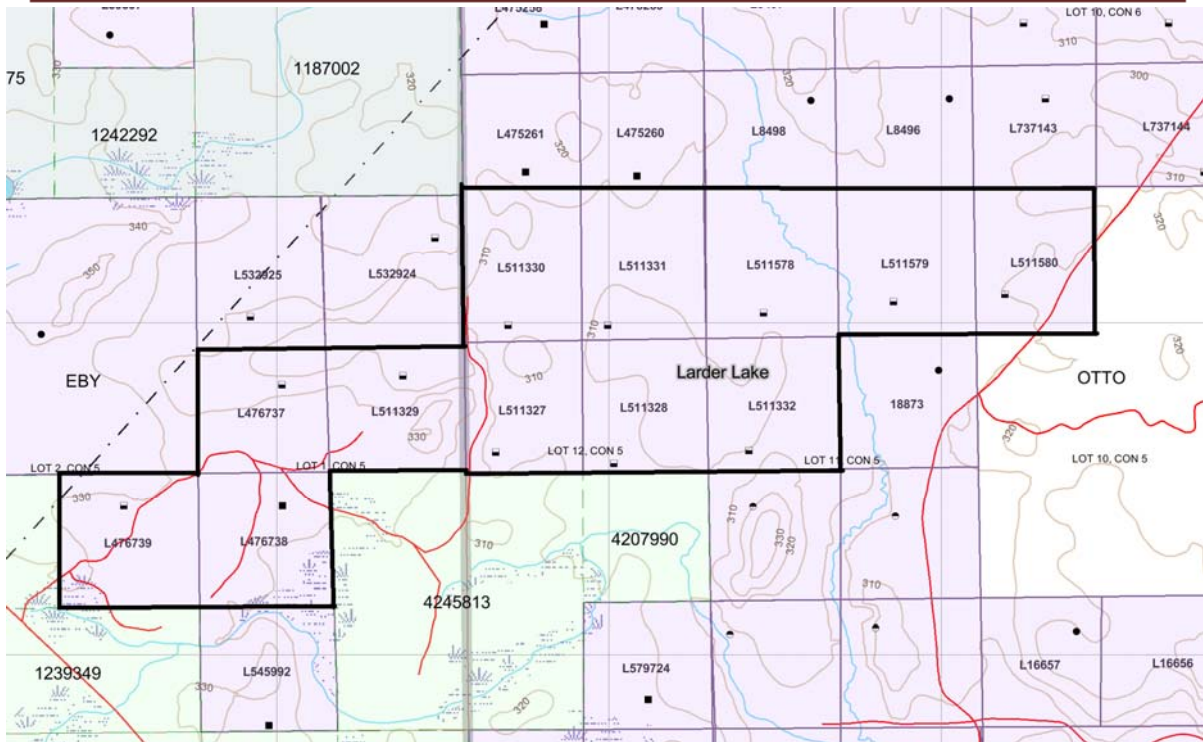
P.O. Box 217  
Killam, Alberta  
T0B 2L0

### 1.3 LOCATION

The Allsopp-Huston Property is located in Eby and Otto Townships approximately 10.5 km south-west of Kirkland Lake, Ontario. The property consists of 12 mining leases.



**Figure 1: Location of the Allsopp-Huston Property**



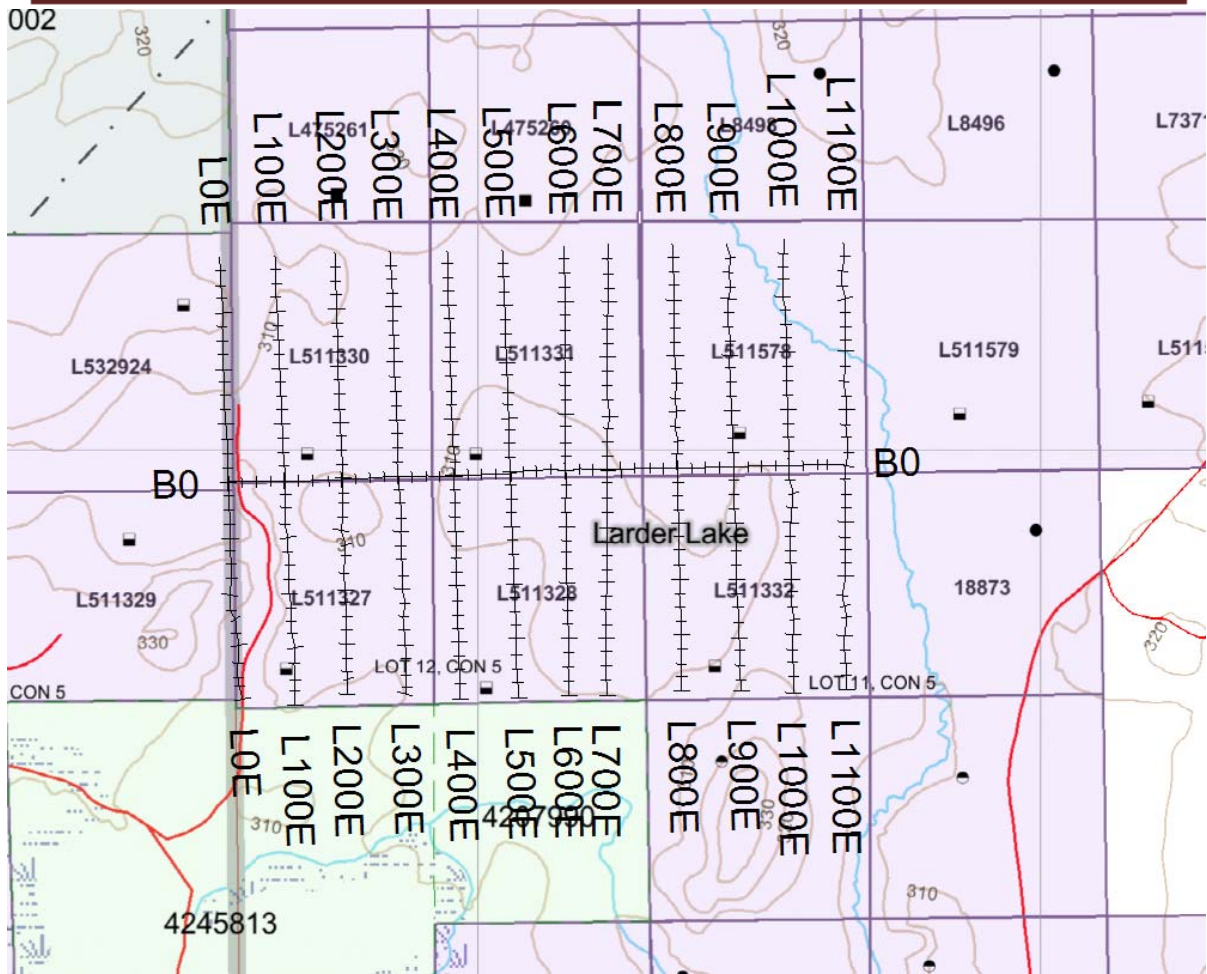
**Figure 2: Allsopp-Huston Property Map**

#### **1.4 ACCESS**

Access to the property was attained with a 4x4 truck via Highway 11 approximately 3 kilometer south of its intersection with highway 66. From here, an ATV trail was travelled to the east for approximately 1.6 kilometers to the survey area.

#### **1.5 SURVEY GRID**

The survey grid consists of 10.7 kilometers of recently established grid lines. The lines are spaced at 100 meter increments with stations picketed at 25m intervals. The baseline runs at 0°N for a total length of 1100m.



**Figure 3: Claim Map with Allsopp-Huston Grid**



## 2. SURVEY WORK UNDERTAKEN

### 2.1 SURVEY LOG

Date	Description	Line	Min Extent	Max Extent	Total Survey (m)
August 4, 2015	Locate grid and setup for IP survey.				
August 5, 2015	Begin IP survey.	0E	400S	400N	800
		100E	100S	400N	500
August 6, 2015	Continue IP survey.	100E	400S	100S	300
		200E	400S	400N	800
		300E	400S	400N	800
August 7, 2015	Continue IP survey.	400E	400S	400N	800
		500E	400S	400N	800
August 10, 2015	Continue IP survey.	600E	400S	400N	800
		700E	100S	400N	500
August 11, 2015	Continue IP survey.	700E	400S	100S	300
		800E	400S	400N	800
		900E	400S	400N	800
August 12, 2015	Complete IP survey.	1000E	400S	400N	800
		1100E	400S	400N	800
August 13, 2015	Begin deep IP survey. Highly conductive dry ground slows progress.	900E	400S	100N	500
August 14, 2015	Continue deep IP survey.	900E	100N	400N	300
August 17, 2015	Continue deep IP survey.	600E	100N	400N	300
August 18, 2015	Continue deep IP survey.	600E	400S	100N	500
		300E	400S	200S	200
August 19, 2015	Continue deep IP survey.	300E	200S	200N	400
August 20, 2015	Complete deep IP survey.	300E	200N	400N	200
	Conduct magnetic survey.	0	400S	400N	800
		100E	400S	400N	800
		200E	400S	400N	800

Date	Description	Line	Min Extent	Max Extent	Total Survey (m)
		300E	400S	400N	800
		400E	400S	400N	800
		500E	400S	400N	800
		600E	400S	400N	800
		700E	400S	400N	800
		800E	400S	400N	800
		900E	400S	400N	800
		1000E	400S	400N	800
		1100E	400S	400N	800
		BL0	0	1100E	1200

**Table 1: Survey Log**

## 2.2 PERSONNEL

### Magnetometer Survey

Bruce Lavalley and Claudia Moraga both of Britt, Ontario conducted all of the magnetic data collection.

### IP Survey

Bruce Lavalley of Britt, Ontario was the Crew Chief and Claudia Moraga also of Britt, Ontario was operating the Transmitter. The crew consisted of Jordan Potts, Neil Jack, Steve Gingras and Khenan Bedingfield.

## 2.3 SURVEY SPECIFICATIONS

### Magnetometer Survey

The survey was conducted with a GSM-19 v7 Overhauser magnetometer in walk-mag mode. Samples were collected every second with a simultaneous GPS position acquired. A second GSM-19 was employed as a base station for diurnal correction.

A total of 10.7 line kilometers of Magnetometer was read over the Allsopp-Huston Property on August 20, 2015. This consisted of 14367 magnetometer samples taken.

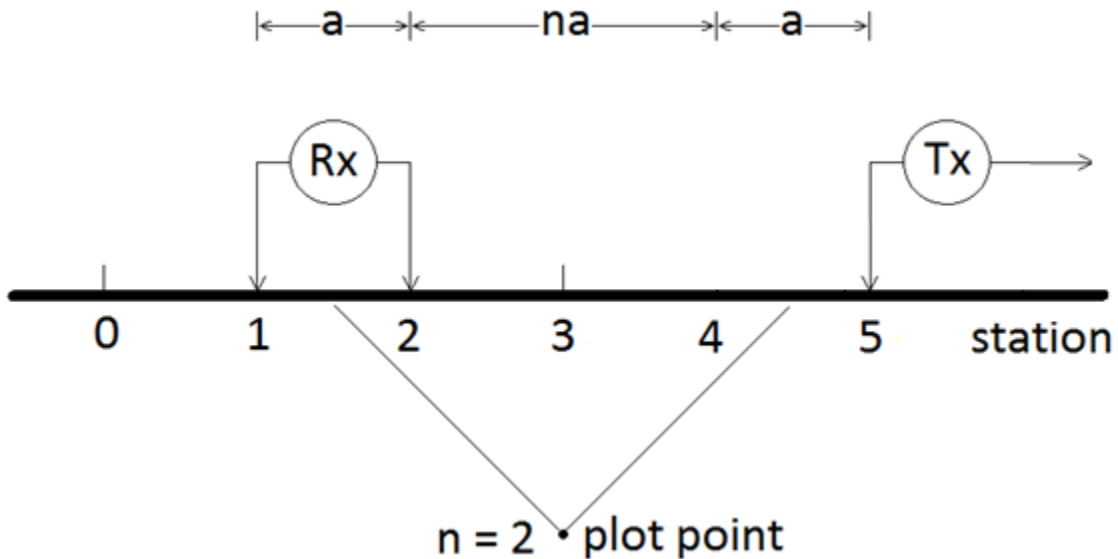
### IP Survey

#### **Pole-Dipole Combo Array**

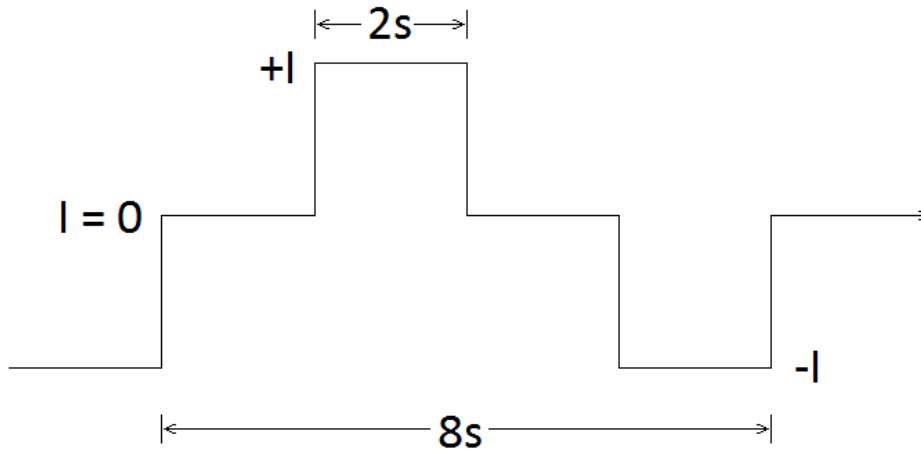
The pole-dipole combo survey configuration was used for this survey. This array consists of 11 mobile stainless steel read electrodes and one current electrode (C1). The eleven potential electrodes were connected to the receiver by means of the "Snake". The power locations C1 was maintained at a distance of 25m behind read



electrode with C2 being located over a kilometer away. The combo array read electrodes had a 25m spacing to a depth of  $n=4$  and a 50m spacing from  $n=4$  through 10. A two second transmit cycle time was used with a minimum number of receiver stacks of 12.



**Figure 4: Pole-Dipole Combo Configuration**

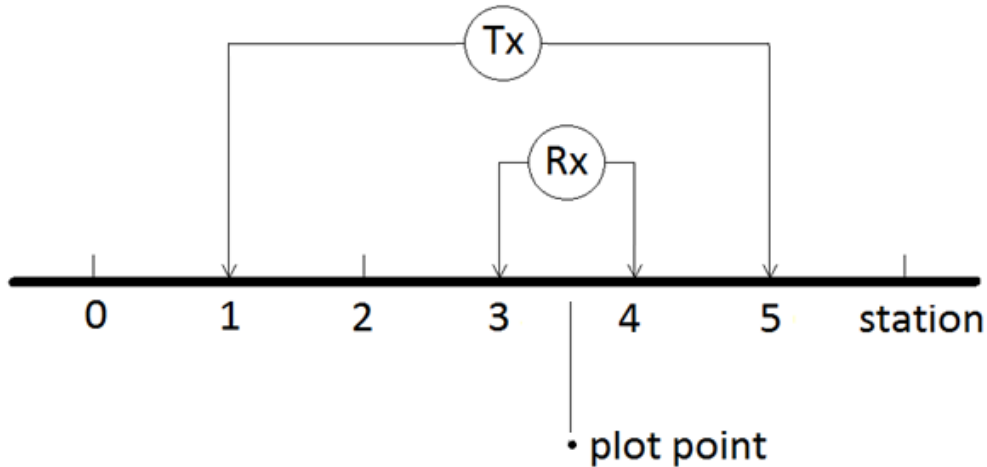


**Figure 5: Transmit Cycle Used**

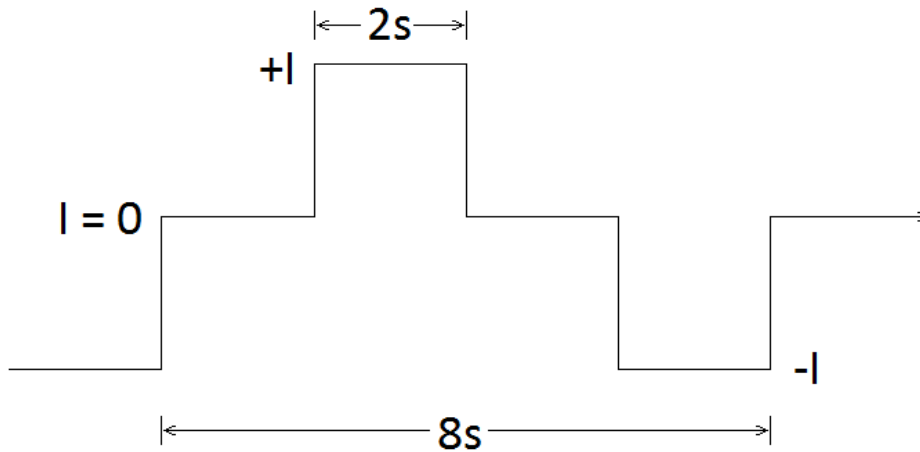
A total of 9.6 line kilometers of Pole Dipole Combo IP was performed between August 4<sup>th</sup> and August 12<sup>th</sup>, 2015. This consisted of 12 grid lines labeled 0E through 1100E totaling 9.6 kilometers.

### Deep IP Array

The deep IP survey configuration was used for this survey. This array consists of 21 mobile stainless steel read electrodes and two current electrodes (C1 and C2). The 21 potential electrodes were connected to the receiver by means of the "Snake". The power locations C1 and C2 were varying throughout the survey line. A two second transmit cycle time was used with a minimum number of receiver stacks of 12.



**Figure 6: Deep IP Configuration**



**Figure 7: Transmit Cycle Used For Deep Array**

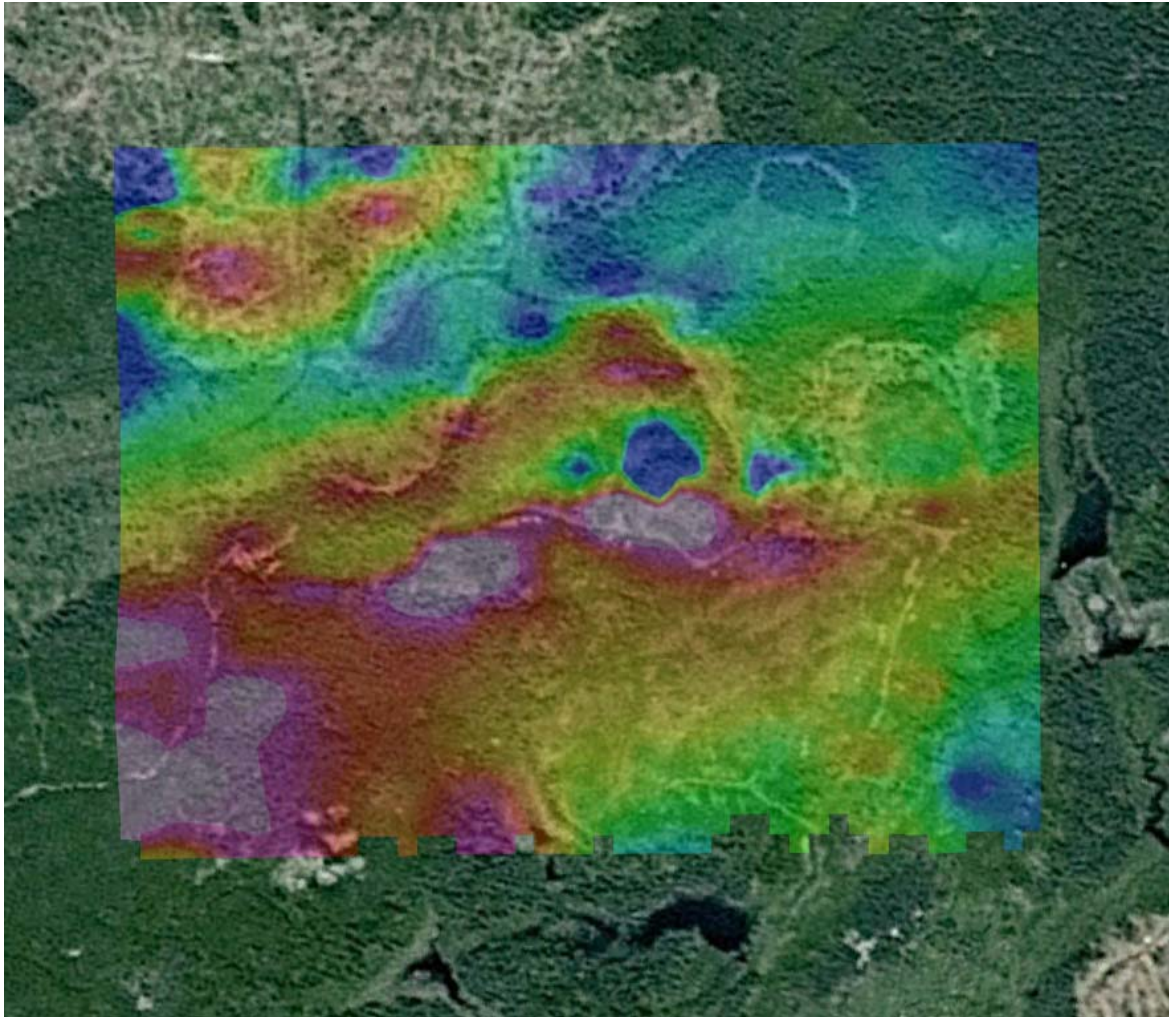
A total of 2.4 line kilometers of Deep IP was performed between August 13<sup>th</sup> and August 21<sup>st</sup>. This consisted of three grid lines labeled 300E, 600E and 900E.

### 3. OVERVIEW OF SURVEY RESULTS

#### 3.1 SUMMARY INTERPRETATION

During the month of August 2015, Canadian Exploration Services Limited (CXS) performed an induced polarization and magnetic survey over the Allsopp-Huston Property on behalf of Atacama Resources International Inc. CXS performed both a combination array over the entire grid and three deep array sections.

The deep array sections were designed to penetrate to approximately 400 meters in depth. Penetration to this depth required a power extension both and south for 800 meters. The first line surveyed was line 900E where it was found that a thick, strong conductive horizon existed north of the baseline. This compiled with extremely dry ground made for difficult survey conditions. After the issues surrounding the first line were analysed the array was modified to better couple with this unit.



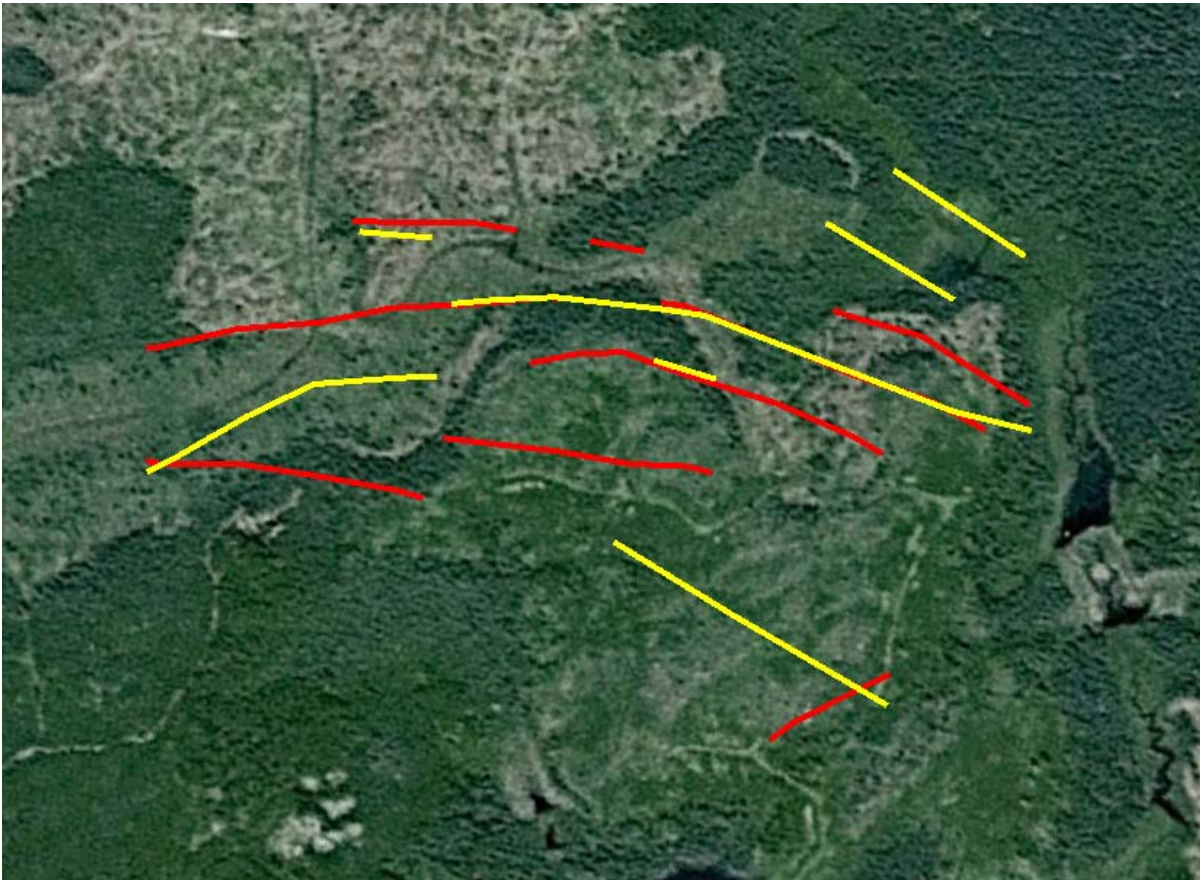
**Figure 8: Google Image with Magnetic Overlay**



The magnetometer survey covered the entire cut grid area. The survey was conducted in walkmag mode with readings automatically taken every 1 second. Each reading had a corresponding GPS UTM position stamp with the station number being stamped while passing each picket.

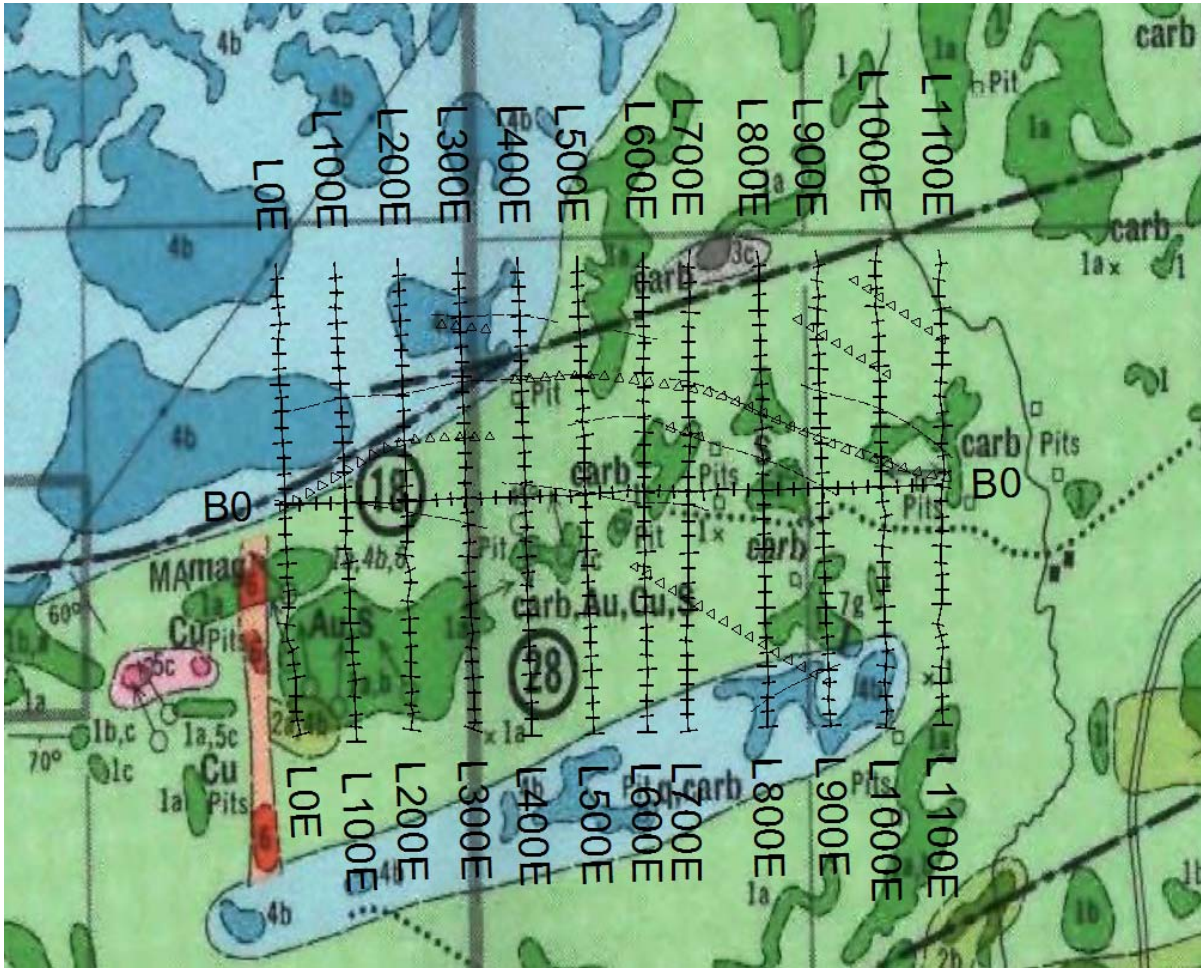
The measured magnetic signature from the magnetometer survey indicates the presence of strong magnetic variations. These strong variations are those that would indicate the probable presence of graphite and ultramafic.

The probable graphitic horizon created issues with the IP survey. In some places this horizon may extend to 100 meters in thickness. This environment resulted in current channeling and difficult signal penetration. This phenomena can be identified in the data as a series of either extremely high or negative chargeability readings.



**Figure 9: Google Image with Chargeability and Resistivity Axis**

The IP survey identified numerous chargeability trends. These trends ranged from weak to intense chargeability responses. Where these chargeability responses overlap the resistivity low response there is a stronger potential for a graphitic horizon.



**Figure 10: Geology Map with Grid and IP Axis**

The inversion indicates the strongest chargeability and conductivity trends appear to coincide with a magnetic low region. This is indicative of a probable graphite horizon. The pole-dipole survey indicates that this anomaly may not be a single broad anomaly but a series of layered graphitic units. The data and the inversion indicates a probable steep dip to the south on this group.

The IP surveys indicate a probable steep south dip to the anomalies. This appears to also be indicated by the deep IP survey. The deep IP survey also indicates that the anomalies continue to depth. Most anomalies appear to subcrop or outcrop and should therefore be easily investigated.

The IP anomalies indicate multiple sources causing them. The stronger chargeability with low resistivity and magnetic low anomalies indicate the source is most likely a result of graphite where the weaker chargeability anomalies are most likely related to mineralized horizons. This may indicate a multiple mineral or ore type property with the potential of gold, base metal and graphite.



The following table represents the anomaly locations, strengths and probable

Line	Station	Chargeability	Resistivity	Magnetic	Depth
0	175S	Strong	Low	No change	N4
0	125N	Strong	Moderate	No change	N4
100E	175N	Moderate	High	Contact	
	25N	Strong	Low	No change	
200E	150N	Moderate	Low	Low	
	25S	Weak	High	Low	
	75S	Weak	Low	High	
300E	250N	Intense	Moderate	Contact	
	50S	Moderate	High	Contact	
400E	350N	Intense	Low	No change	N2
	175N	Strong	Low	Low	N2
	25N	Moderate	High	Elevated	
	350S	Moderate	Elevated	Elevated	
500E	175N	Intense	Intense Low	Elevated	N3
600E	250N	Strong	Low	No change	
	150N	Strong	Low	Elevated	
	25S	Weak-moderate	High	Intense High	N2
700E	175N	Strong	Low	Low	N2
	75N	Moderate	Low	Contact	N2
	25S	Weak	Elevated	High	N2
800E	125N	Moderate	Low	No Change	N3
	50N	Moderate	Low	No Change	N2
900E	150N	Moderate	Low	No Change	N3
	75N	Weak	Low	Decrease	N3
	0	Moderate	Low	Decrease	
	325S	Strong	Low	Low	
1000E	125N	Strong	Low	No Change	
	50N	Strong	Low	Elevated	
1100E	225N	Strong	Low	Contact	N2
	50N	Moderate	Low	Contact	N3

**Table 2: Anomaly Location and Strength**

Generally the anomaly distribution indicates a probable contact zone between various volcanic flows with some potential intrusives. This creates an ideal situation for mineralization of many sorts. The most promising areas appear to sit north of the baseline and most likely represent a sedimentary unit with mineralization and graphite. Chargeability anomalies have been noted outside this envelop where mineral concentrations may also occur.



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I would recommend following up this survey with a grid extension to cover the remainder of the property. On this grid, I would extend the magnetic survey along with performing a dipole-dipole survey to look for near surface responses. With the current channeling observed an EM survey such as a Max-Min would also be recommended to further isolate these conductive horizons. Along with this, I would suggest a detailed mapping and prospecting coverage of the property. A soil sampling survey should also be performed which would help determine if any of the chargeability response may include economic mineralization.

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## APPENDIX A

### STATEMENT OF QUALIFICATIONS

I, C. Jason Ploeger, hereby declare that:

1. I am a professional geophysicist with residence in Larder Lake, Ontario and am presently employed as a Geophysicist and Geophysical Manager of Canadian Exploration Services Ltd. of Larder Lake, Ontario.
2. I am a Practising Member of the Association of Professional Geoscientists, with membership number 2172.
3. I graduated with a Bachelor of Science degree in geophysics from the University of Western Ontario, in London Ontario, in 1999.
4. I have practiced my profession continuously since graduation in Africa, Bulgaria, Canada, Mexico and Mongolia.
5. I am a member of the Ontario Prospectors Association, a Director of the Northern Prospectors Association and a member of the Society of Exploration Geophysicists.
6. I do not have nor expect an interest in the properties and securities of **Atacama Resources International Inc.**
7. I am responsible for the final processing and validation of the survey results and the compilation of the presentation of this 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.



C. Jason Ploeger, P.Geo., B.Sc.  
Geophysical Manager  
Canadian Exploration Services Ltd.

Larder Lake, ON  
August 31, 2015

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## APPENDIX B

### THEORETICAL BASIS AND SURVEY PROCEDURES

#### TOTAL FIELD MAGNETIC SURVEY

Base station corrected Total Field Magnetic surveying is conducted using at least two synchronized magnetometers of identical type. One magnetometer unit is set in a fixed position in a region of stable geomagnetic gradient, and away from possible cultural effects (i.e. moving vehicles) to monitor and correct for daily diurnal drift. This magnetometer, given the term 'base station', stores the time, date and total field measurement at fixed time intervals over the survey day. The second, remote mobile unit stores the coordinates, time, date, and the total field measurements simultaneously. The procedure consists of taking total magnetic measurements of the Earth's field at stations, along individual profiles, including Tie and Base lines. A 2 meter staff is used to mount the sensor, in order to optimally minimize localized near-surface geologic noise. At the end of a survey day, the mobile and base-station units are linked, via RS-232 ports, for diurnal drift and other magnetic activity (ionospheric and spheric) corrections using internal software.

For the gradiometer application, two identical sensors are mounted vertically at the ends of a rigid fiberglass tube. The centers of the coils are spaced a fixed distance apart (0.5 to 1.0m). The two coils are then read simultaneously, which alleviates the need to correct the gradient readings for diurnal variations, to measure the gradient of the total magnetic field.

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## APPENDIX B

### THEORETICAL BASIS AND SURVEY PROCEDURES

#### Induced Polarization Surveys

Time domain IP surveys involve measurement of the magnitude of the polarization voltage ( $V_p$ ) that results from the injection of pulsed current into the ground.

Two main mechanisms are known to be responsible for the IP effect although the exact causes are still poorly understood. The main mechanism in rocks containing metallic conductors is electrode polarization (overvoltage effect). This results from the build up of charge on either side of conductive grains within the rock matrix as they block the flow of current. On removal of this current the ions responsible for the charge slowly diffuse back into the electrolyte (groundwater) and the potential difference across each grain slowly decays to zero.

The second mechanism, membrane polarization, results from a constriction of the flow of ions around narrow pore channels. It may also result from the excessive build up of positive ions around clay particles. This cloud of positive ions similarly blocks the passage of negative ions through pore spaces within the rock. On removal of the applied voltage the concentration of ions slowly returns to its original state resulting in the observed IP response.

In TD-IP the current is usually applied in the form of a square waveform, with the polarization voltage being measured over a series of short time intervals after each current cut-off, following a short delay of approximately 0.5s. These readings are integrated to give the area under the decay curve, which is used to define  $V_p$ . The integral voltage is divided by the observed steady voltage (the voltage due to the applied current, plus the polarization voltage) to give the apparent chargeability ( $Ma$ ) measured in milliseconds. For a given charging period and integration time the measured apparent chargeability provides qualitative information on the subsurface geology.

The polarization voltage is measured using a pair of non-polarizing electrodes similar to those used in spontaneous potential measurements and other IP techniques.

## APPENDIX C

### GSM 19



### Specifications

#### Overhauser Performance

- Resolution: 0.01 nT
- Relative Sensitivity: 0.02 nT
- Absolute Accuracy: 0.2nT
- Range: 20,000 to 120,000 nT
- Gradient Tolerance: Over 10,000nT/m
- Operating Temperature: -40°C to +60°C

#### Operation Modes

- Manual: Coordinates, time, date and reading stored automatically at min. 3 second interval.
- Base Station: Time, date and reading stored at 3 to 60 second intervals.
- Walking Mag: Time, date and reading stored at coordinates of fiducial.
- Remote Control: Optional remote control using RS-232 interface.
- Input/Output: RS-232 or analog (optional) output using 6-pin weatherproof connector.

#### Operating Parameters

- Power Consumption: Only 2Ws per reading. Operates continuously for 45 hours on standby.
- Power Source: 12V 2.6Ah sealed lead acid battery standard, other batteries available
- Operating Temperature: -50°C to +60°C

#### Storage Capacity

- Manual Operation: 29,000 readings standard, with up to 116,000 optional. With 3 VLF stations: 12,000 standard and up to 48,000 optional.
- Base Station: 105,000 readings standard, with up to 419,000 optional (88 hours or 14 days uninterrupted operation with 3 sec. intervals)
- Gradiometer: 25,000 readings standard, with up to 100,000 optional. With 3 VLF stations: 12,000, with up to 45,000 optional.

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## Omnidirectional VLF

Performance Parameters: Resolution 0.5% and range to  $\pm 200\%$  of total field.  
Frequency 15 to 30 kHz.

Measured Parameters: Vertical in-phase & out-of-phase, 2 horizontal components, total field coordinates, date, and time.

Features: Up to 3 stations measured automatically, in-field data review, displays station field strength continuously, and tilt correction for up to  $\pm 10^\circ$  tilts.

Dimensions and Weights: 93 x 143 x 150mm and weighs only 1.0kg.

## Dimensions and Weights

Dimensions:

Console: 223 x 69 x 240mm

Sensor: 170 x 71mm diameter cylinder

Weight:

Console: 2.1kg

Sensor and Staff Assembly: 2.0kg

## Standard Components

GSM-19 magnetometer console, harness, battery charger, shipping case, sensor with cable, staff, instruction manual, data transfer cable and software.

## Taking Advantage of a “Quirk” of Physics

Overhauser effect magnetometers are essentially proton precession devices except that they produce an order-of magnitude greater sensitivity. These "supercharged" quantum magnetometers also deliver high absolute accuracy, rapid cycling (up to 5 readings / second), and exceptionally low power consumption.

The Overhauser effect occurs when a special liquid (with unpaired electrons) is combined with hydrogen atoms and then exposed to secondary polarization from a radio frequency (RF) magnetic field. The unpaired electrons transfer their stronger polarization to hydrogen atoms, thereby generating a strong precession signal-- that is ideal for very high-sensitivity total field measurement. In comparison with proton precession methods, RF signal generation also keeps power consumption to an absolute minimum and reduces noise (i.e. generating RF frequencies are well out of the bandwidth of the precession signal).

In addition, polarization and signal measurement can occur simultaneously - which enables faster, sequential measurements. This, in turn, facilitates advanced statistical averaging over the sampling period and/or increased cycling rates (i.e. sampling speeds).



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**APPENDIX C****Iris Elrec Pro Receiver**

*ELREC Pro unit with its graphic LCD screen*

**Specifications**

- 10 CHANNELS / IP RECEIVER FOR MINERAL EXPLORATION
- 10 simultaneous dipoles
- 20 programmable chargeability windows
- High accuracy and sensitivity

**ELREC Pro:** this new receiver is a new compact and low consumption unit designed for high productivity Resistivity and Induced Polarization measurements. It features some high capabilities allowing to work in any field conditions.

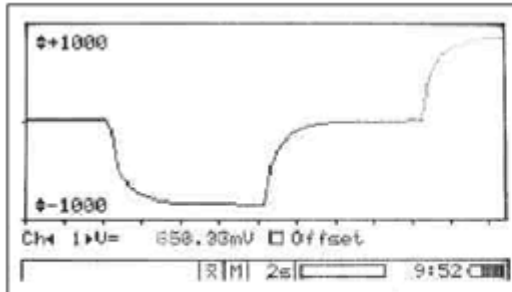
**Reception dipoles:** the ten dipoles of the ELREC Pro offer an high productivity in the field for dipole-dipole, gradient or extended poly-pole arrays.

**Programmable windows:** beside classical arithmetic and logarithmic modes, ELREC Pro also offers a Cole-Cole mode and a twenty fully programmable windows for a higher flexibility in the definition of the IP decay curve.

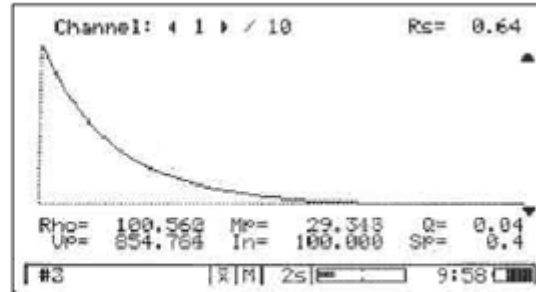
**IP display:** chargeability values and IP decay curves can be displayed in real time thanks to the large graphic LCD screen. Before data acquisition, the ELREC Pro can be used as a one channel graphic display, for monitoring the noise level and checking the primary voltage waveform, through a continuous display process.

**Internal memory:** the memory can store up to 21 000 readings, each reading including the full set of parameters characterizing the measurements. The data are stored in flash memories not requiring any lithium battery for safeguard.

**Switching capability:** thanks to extension Switch Pro box(es) connected to the ELREC Pro unit, the 10 reception electrodes can be automatically switched to increase the productivity in-the-field.



*Monitoring of the Primary voltage waveform before acquisition*



*Display of numeric values and IP decay curve during acquisition*

## FIELD LAY-OUT OF AN ELREC PRO UNIT

The ELREC Pro unit has to be used with an external transmitter, such as a VIP transmitter.

The automatic synchronization (and re-synchronization at each new pulse) with the transmission signal, through a waveform recognition process, gives an high reliability of the measurement.

Before starting the measurement, a grounding resistance measuring process is automatically run ; this allows to check that all the electrodes are properly connected to the receiver.

Extension Switch Pro box(es), with specific cables, can be connected to the ELREC Pro unit for an automatic switching of the reception electrodes according to preset sequence of measurements ; these sequences have to be created and uploaded to the unit from the ELECTRE II software.

The use of such boxes allows to save time in case of the user needs to measure more than 10 levels of investigation or in case of large 2D or 3D acquisition.

## DATA MANAGING

PROSYS software allows to download data from the unit. From this software, one has the opportunity to visualize graphically the apparent resistivity and the chargeability sections together with the IP decay curve of each data point. Then, one can process the data (filter, insert topography, merge data files...) before exporting them to "txt" file or to interpretation software:

RES2DINV or RESIX software for pseudo-section inversion to true resistivity (and

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IP) 2D section.

RES3DINV software, for inversion to true resistivity (and IP) 3D data.

## TECHNICAL SPECIFICATIONS

- Input voltage:
  - Max. for channel 1: 15 V
  - Max. for the sum from channel 2 to channel 10: 15 V
  - Protection: up to 800V
- Voltage measurement:
  - Accuracy: 0.2 % typical
  - Resolution: 1  $\mu$ V
- Chargeability measurement:
  - Accuracy: 0.6 % typical
- Induced Polarization (chargeability) measured over to 20 automatic or user defined windows
- Input impedance: 100 MW
- Signal waveform: Time domain (ON+,OFF,ON-, OFF) with a pulse duration of 500 ms - 1s - 2s - 4s -8s
- Automatic synchronization and re-synchronization process on primary voltage signals
- Computation of apparent resistivity, average chargeability and standard deviation
- Noise reduction: automatic stacking number in relation with a given standard deviation value
- SP compensation through automatic linear drift correction
- 50 to 60Hz power line rejection
- Battery test

## GENERAL SPECIFICATIONS.

- Data flash memory: more than 21 000 readings
- Serial link RS-232 for data download
- Power supply: internal rechargeable 12V, 7.2 Ah battery ; optional external 12V standard car battery can be also used
- Weather proof
- Shock resistant fiber-glass case
- Operating temperature: -20 °C to +70 °C
- Dimensions: 31 x 21 x 21 cm
- Weight: 6 kg

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## APPENDIX C

### GGD II 5kW



### SPECIFICATIONS

- Protection against short circuits even at 0 ohms
- Output Voltage range: 150V to 2400V in 14 steps
- Power source is a standard 220/240V, 20/60 Hz source
- Displays electrode contact, transmitting power and current

### ELECTRICAL CHARACTERISTICS

- Standard Time Base of 2 seconds for time domain – 2 seconds on, 2 seconds off
- Optional Time Base of DC, 0.5, 1, 2, 4 or 8 seconds
- Output Current Range, 0.030 to 10A
- Output Voltage Range, 150 to 2400V in 14 steps
- Ability to Link 2 GDD transmitters to double power output

### CONTROLS

- Switch ON/OFF
- Output Voltage Range Switch: 150V, 180V, 350V, 420V, 500V, 600V, 700V, 840V, 1000V, 1200V, 1400V, 1680V, 2000V and 2400V

### DISPLAYS

- Output Current LCD: reads +/- 0.0010A
- Electrode Contact Displayed when not Transmitting
- Output Power Displayed when Transmitting
- Automatic Thermostat controlled LCD heater for LCD
- Total Protection Against Short Circuits
- Indicator Lamps Indicate Overloads

### GENERAL SPECIFICATIONS

- Weather proof
- Shock resistant pelican case
- Operating temperature: -40 °C to +65 °C
- Dimensions: 26 x 45 x 55 cm
  
- Weight: 40 kg

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## APPENDIX D

### LIST OF MAPS (IN MAP POCKET)

#### Posted contoured Plan Maps (1:2500)

- 1) ATACAMA-ALLSOPP HUSTON-MAG-CONT
- 2) ATACAMA-ALLSOPP HUSTON-IP-CHR-N2
- 3) ATACAMA-ALLSOPP HUSTON-IP-RES-N2

#### Posted contoured Pseudo-Sections (1:2500)

- 4) ATACAMA-ALLSOPP HUSTON-IP-COMBO-0
- 5) ATACAMA-ALLSOPP HUSTON-IP-COMBO-100E
- 6) ATACAMA-ALLSOPP HUSTON-IP-COMBO-200E
- 7) ATACAMA-ALLSOPP HUSTON-IP-COMBO-300E
- 8) ATACAMA-ALLSOPP HUSTON-IP-COMBO-400E
- 9) ATACAMA-ALLSOPP HUSTON-IP-COMBO-500E
- 10) ATACAMA-ALLSOPP HUSTON-IP-COMBO-600E
- 11) ATACAMA-ALLSOPP HUSTON-IP-COMBO-700E
- 12) ATACAMA-ALLSOPP HUSTON-IP-COMBO-800E
- 13) ATACAMA-ALLSOPP HUSTON-IP-COMBO-900E
- 14) ATACAMA-ALLSOPP HUSTON-IP-COMBO-1000E
- 15) ATACAMA-ALLSOPP HUSTON-IP-COMBO-1100E

#### Posted Contoured HDIP Sections (1:2500)

- 16) ATACAMA-ALLSOPP HUSTON-HDIP-CHR-300E
- 17) ATACAMA-ALLSOPP HUSTON-HDIP-CHR-600E
- 18) ATACAMA-ALLSOPP HUSTON-HDIP-CHR-900E
- 19) ATACAMA-ALLSOPP HUSTON-HDIP-RES-300E
- 20) ATACAMA-ALLSOPP HUSTON-HDIP-RES-600E
- 21) ATACAMA-ALLSOPP HUSTON-HDIP-RES-900E

#### Posted Contoured Inversion Sections (1:2500)

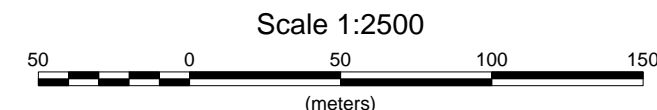
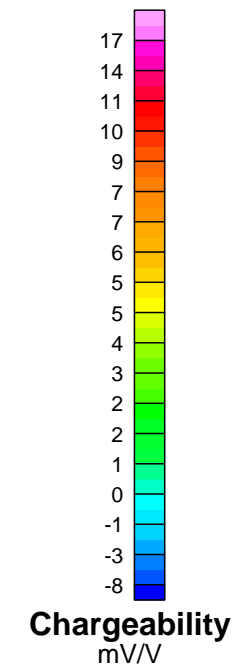
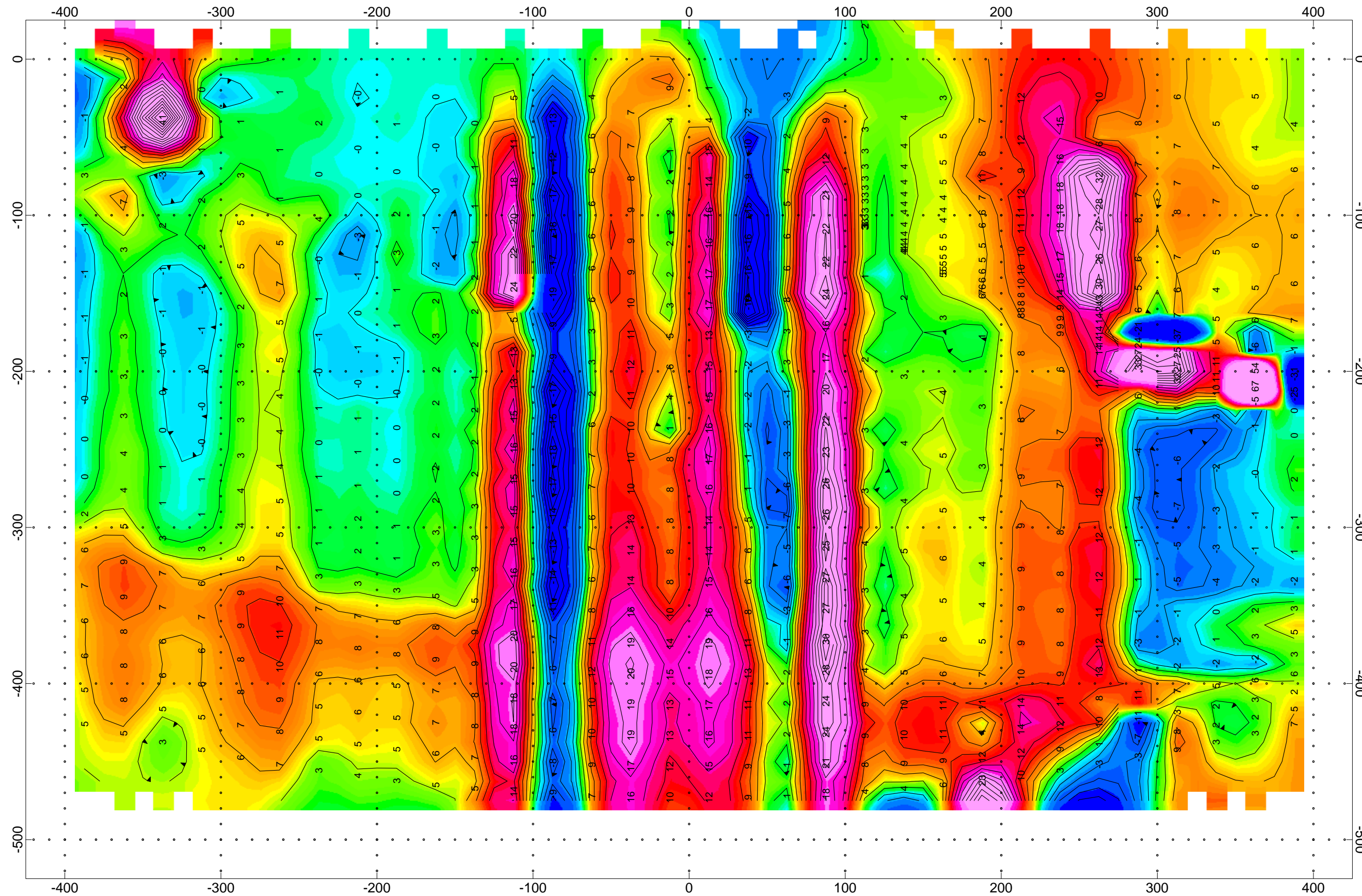
- 22) ATACAMA-ALLSOPP HUSTON-INV-CHR-300E
- 23) ATACAMA-ALLSOPP HUSTON-INV-CHR-600E
- 24) ATACAMA-ALLSOPP HUSTON-INV-CHR-900E
- 25) ATACAMA-ALLSOPP HUSTON-INV-RES-300E
- 26) ATACAMA-ALLSOPP HUSTON-INV-RES-600E
- 27) ATACAMA-ALLSOPP HUSTON-INV-RES-900E


#### Claim Map with Grid (1:20000)

- 28) ATACAMA-ALLSOPP HUSTON-GRID

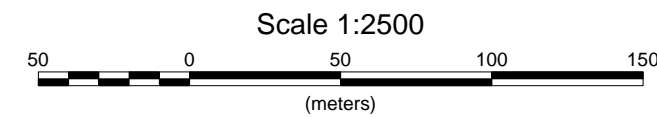
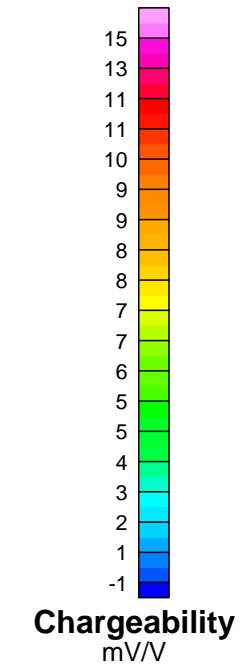
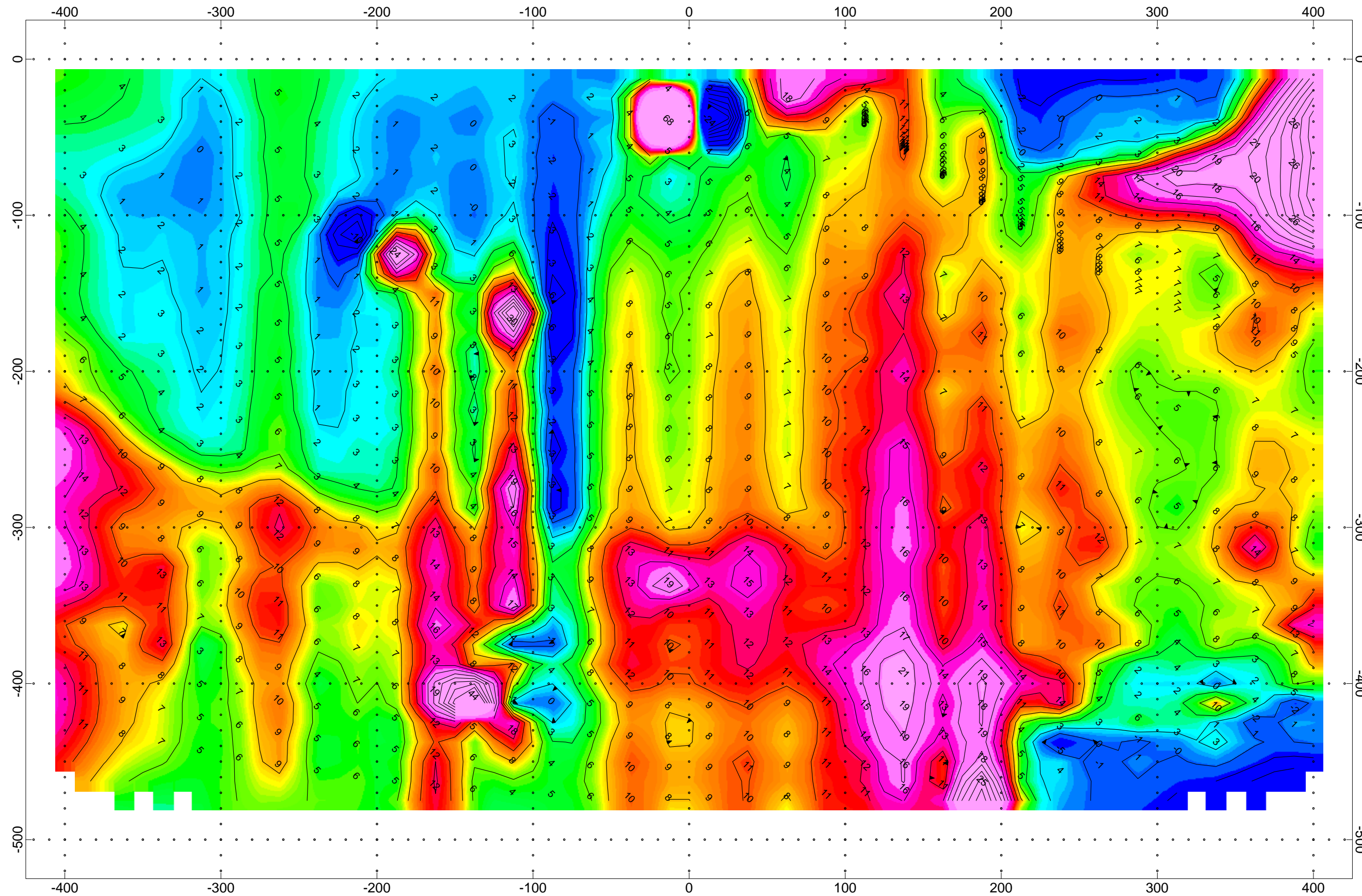
**TOTAL MAPS = 28**






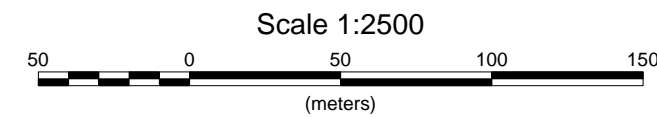
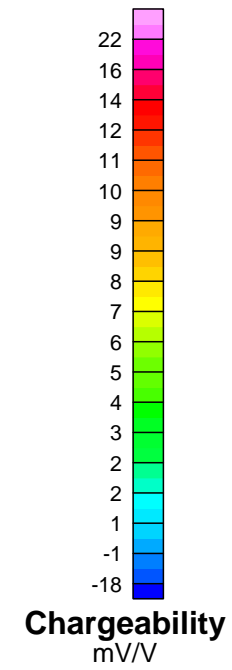
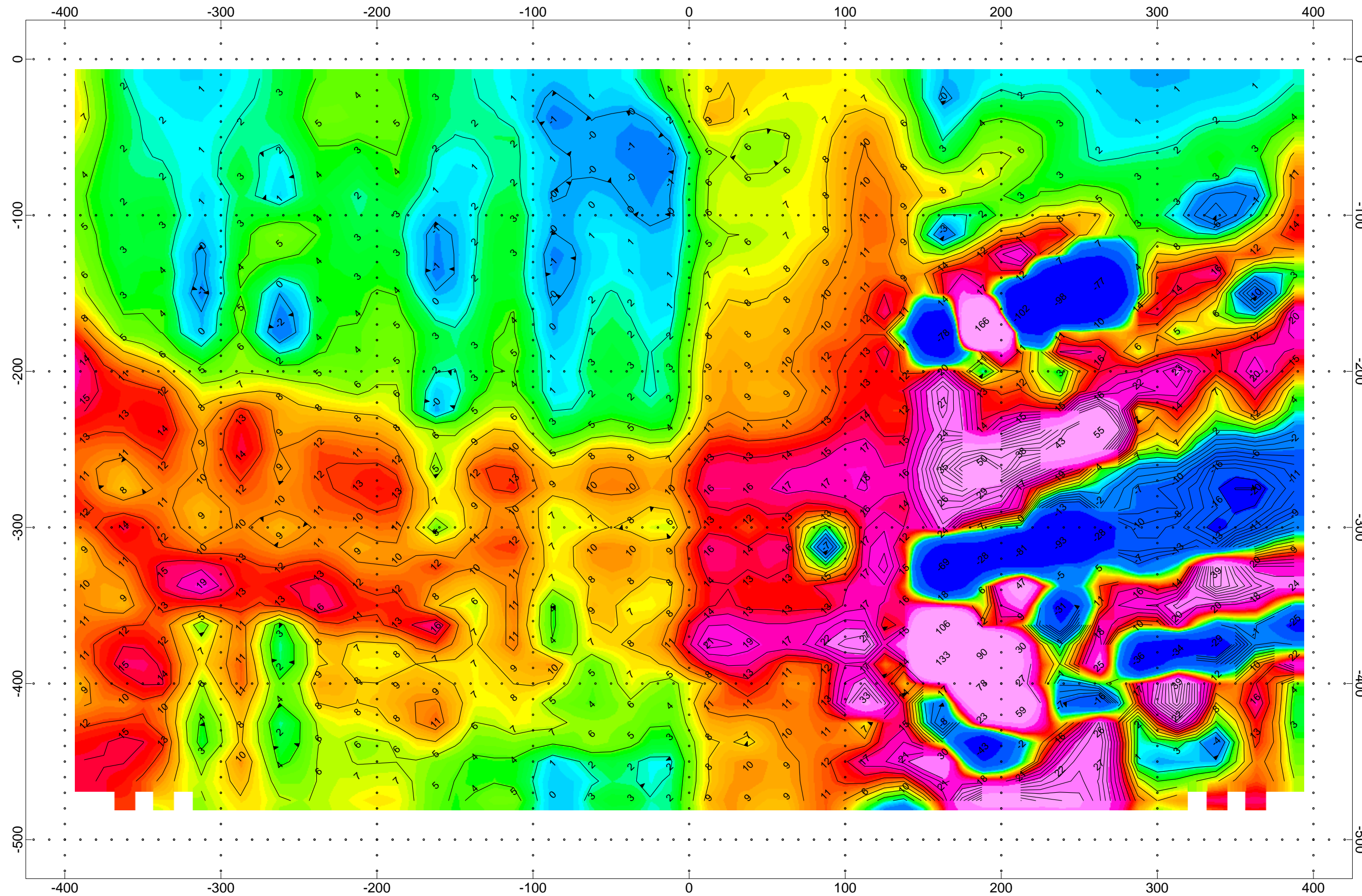
<p><b>ATACAMA RESOURCES INTERNATIONAL INC.</b></p> <p><b>Allsopp Huston Grid Eby and Otto Township, Ontario</b></p>	
<p>Deep Induced Polarization Survey Raw Chargeability Data Line 300E</p> <p>Interval: 2 seconds Current: 30-4800 mA Rx: Iris Elrec Pro Tx: GDD II (5kW Time Domain)</p>	
<p>Receiver Operated By: Bruce Lavalley and Claudia Moraga Processed by: Jason Ploeger Map Drawn By: C Jason Ploeger, P.Geo August 2015</p>	
<p>Drawing : ATACAMA-ALLSOPP HUSTON-HDIP-CHR-300E</p>	





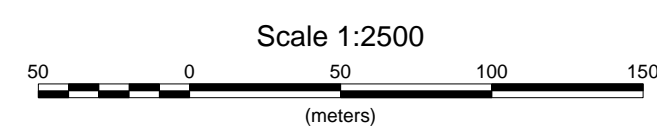
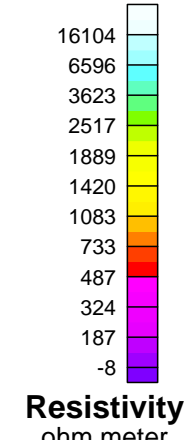
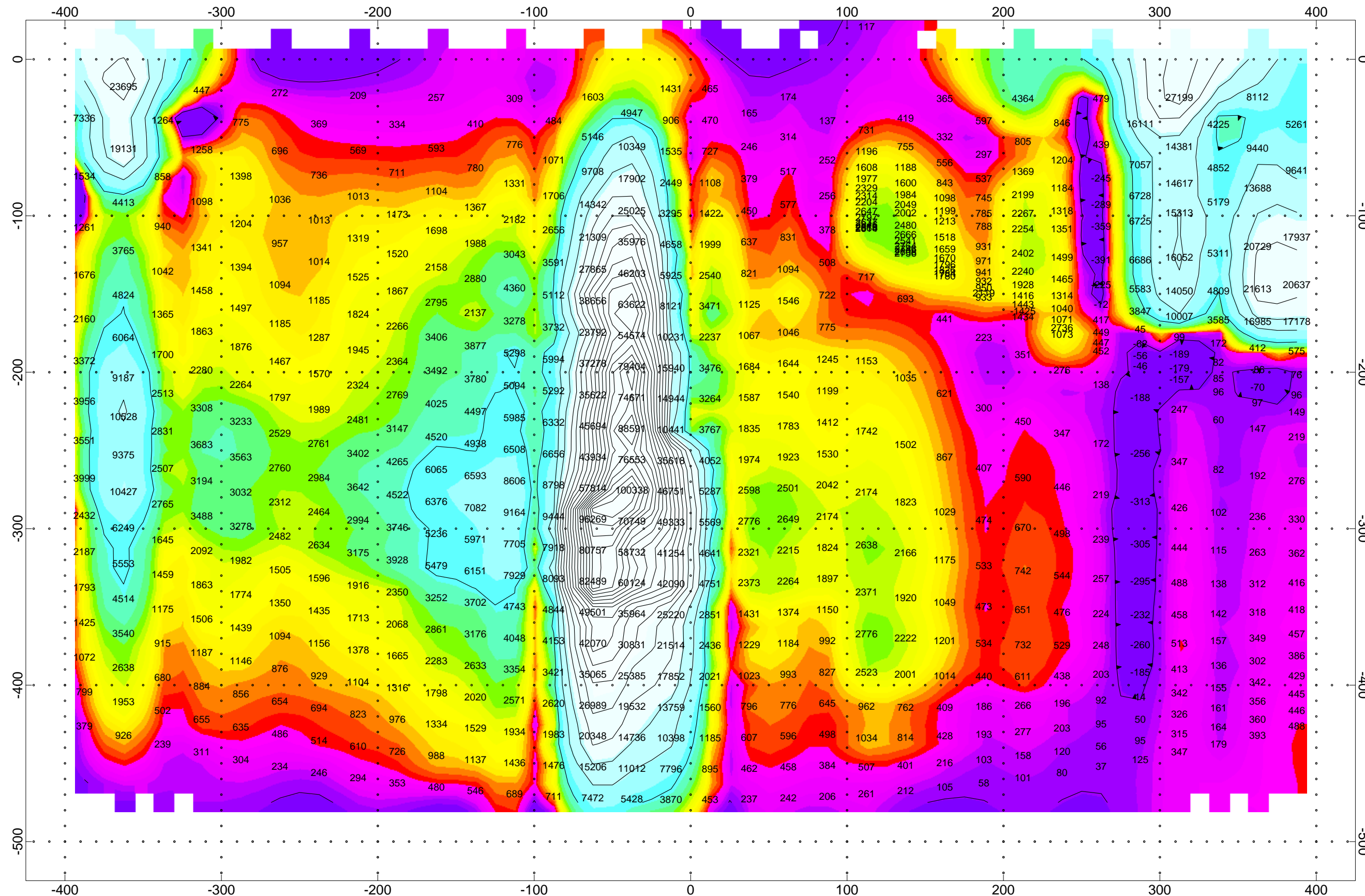
<p><b>ATACAMA RESOURCES INTERNATIONAL INC.</b></p> <p><b>Allsopp Huston Grid Eby and Otto Township, Ontario</b></p>	
<p>Deep Induced Polarization Survey Raw Chargeability Data Line 600E</p> <p>Interval: 2 seconds Current: 30-4800 mA Rx: Iris Elrec Pro Tx: GDD II (5kW Time Domain)</p>	
<p>Receiver Operated By: Bruce Lavalley and Claudia Moraga Processed by: Jason Ploeger Map Drawn By: C Jason Ploeger, P.Geo August 2015</p>	
<p>Drawing : ATACAMA-ALLSOPP HUSTON-HDIP-CHR-600E</p>	





<p><b>ATACAMA RESOURCES INTERNATIONAL INC.</b></p> <p><b>Allsopp Huston Grid</b> <b>Eby and Otto Township, Ontario</b></p>	
<p>Deep Induced Polarization Survey Raw Chargeability Data Line 900E</p> <p>Interval: 2 seconds Current: 30-4800 mA Rx: Iris Elrec Pro Tx: GDD II (5kW Time Domain)</p>	
<p>Receiver Operated By: Bruce Lavalley and Claudia Moraga Processed by: Jason Ploeger Map Drawn By: C Jason Ploeger, P.Geo August 2015</p>	
<p>Drawing : ATACAMA-ALLSOPP HUSTON-HDIP-CHR-900E</p>	





**ATACAMA RESOURCES  
INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**


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Deep Induced Polarization Survey  
Raw Resistivity Data  
Line 300E

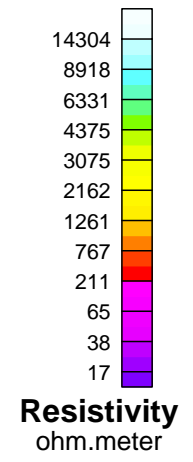
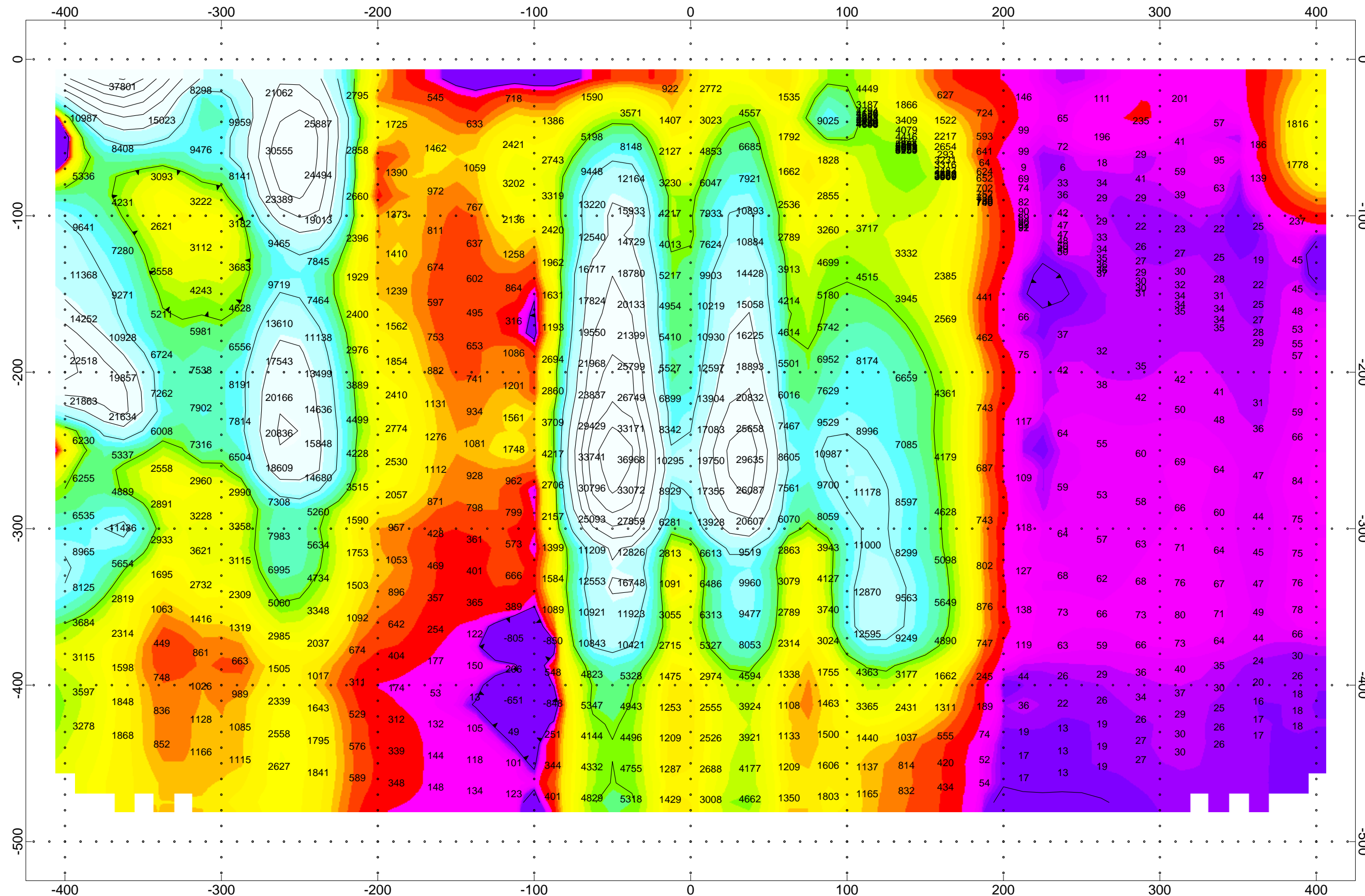
Interval: 2 seconds  
Current: 30-4800 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

---

Receiver Operated By: Bruce Lavalley  
and Claudia Moraga  
Processed by: Jason Ploeger  
Map Drawn By: C Jason Ploeger, P.Geo  
August 2015



*Drawing : ATACAMA-ALLSOPP HUSTON-HDIP-RES-300E*



**ATACAMA RESOURCES  
INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**


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Deep Induced Polarization Survey  
Raw Resistivity Data  
Line 600E

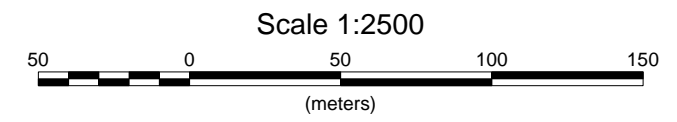
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Current: 30-4800 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

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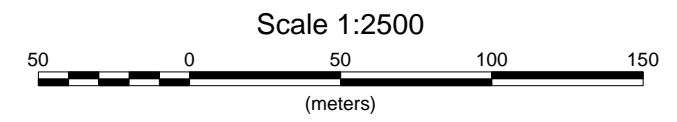
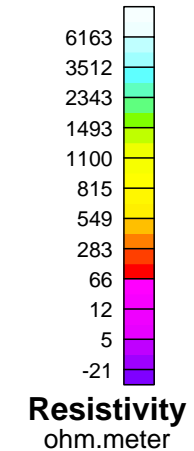
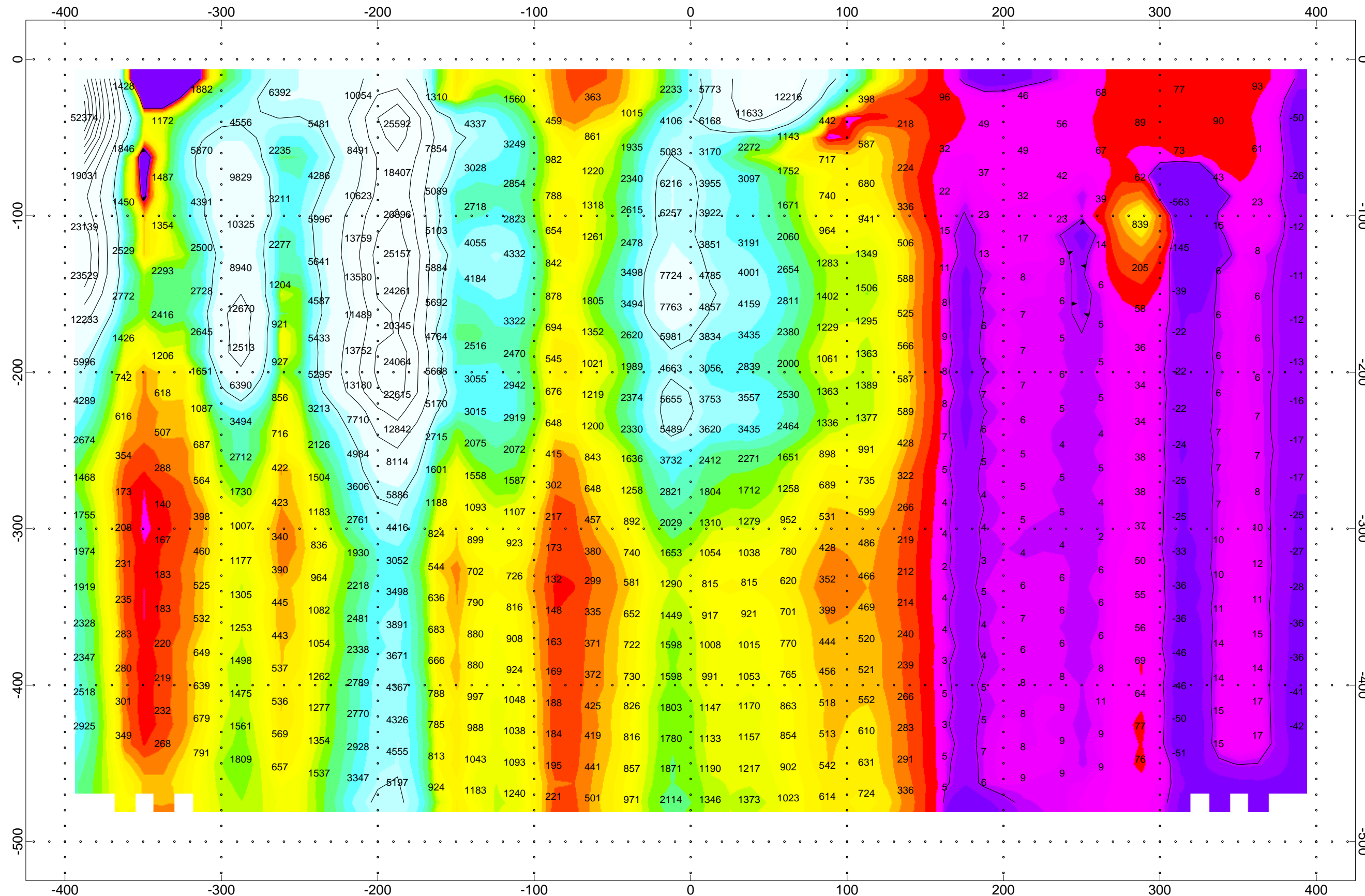
Receiver Operated By: Bruce Lavalley  
and Claudia Moraga  
Processed by: Jason Ploeger  
Map Drawn By: C Jason Ploeger, P.Geo  
August 2015



*Drawing : ATACAMA-ALLSOPP HUSTON-HDIP-RES-600E*







**ATACAMA RESOURCES  
INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

Deep Induced Polarization Survey  
Raw Resistivity Data  
Line 900E

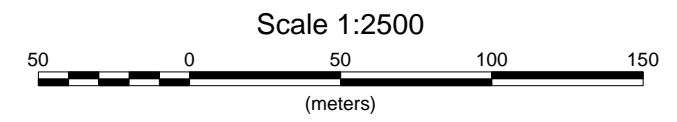
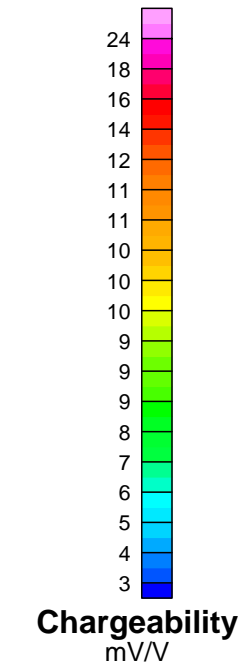
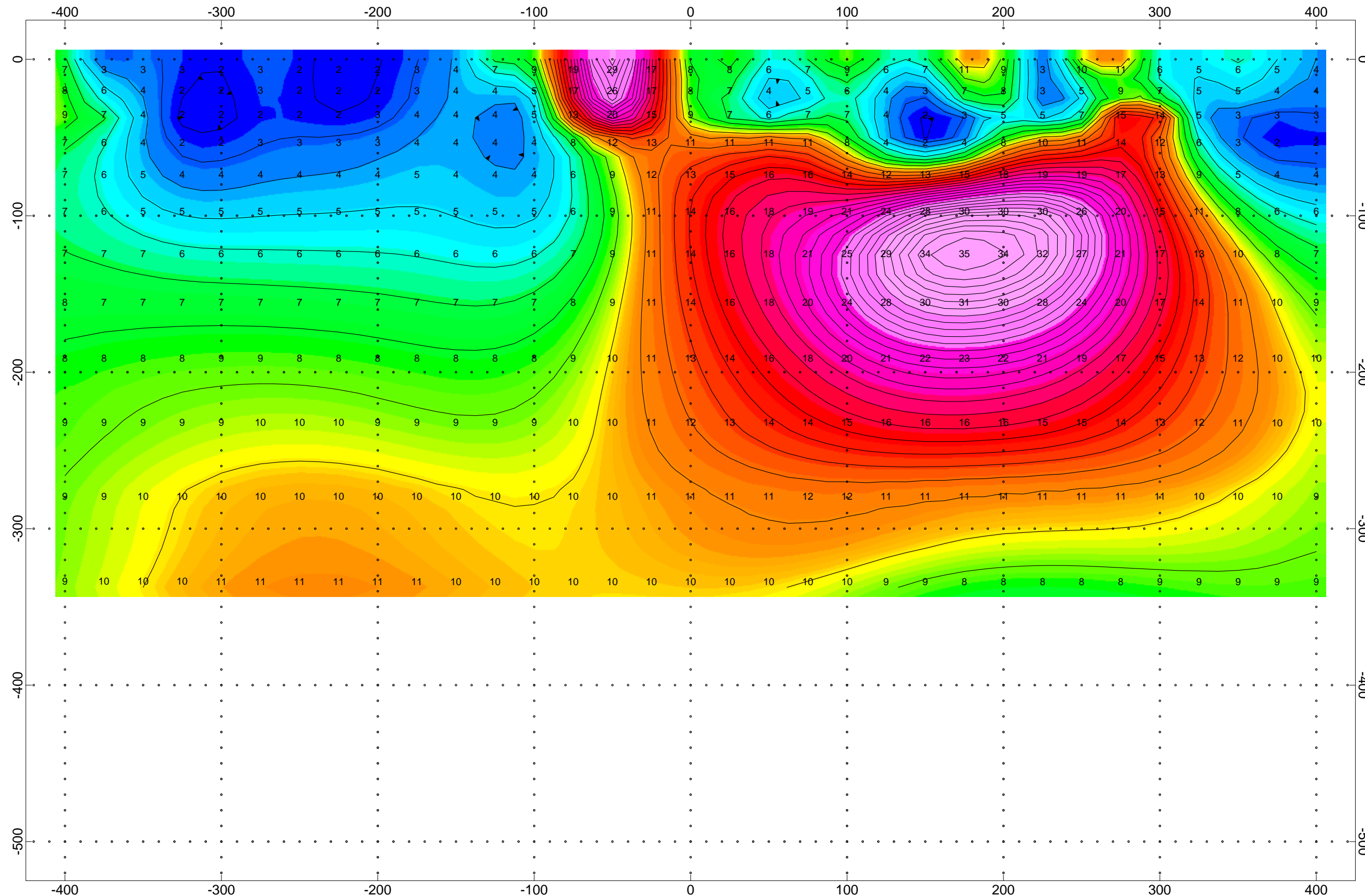
Interval: 2 seconds  
Current: 30-4800 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Receiver Operated By: Bruce Lavalley  
and Claudia Moraga  
Processed by: Jason Ploeger  
Map Drawn By: C Jason Ploeger, P.Geo  
August 2015

**CXS**  
CANADIAN EXPLORATION SERVICES LTD

*Drawing : ATACAMA-ALLSOPP HUSTON-HDIP-RES-900E*





**ATACAMA RESOURCES  
INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**


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Deep Induced Polarization Survey  
Combo Pole Dipole Induced Polarization Survey  
Inversion Chargeability Data  
Line 300E

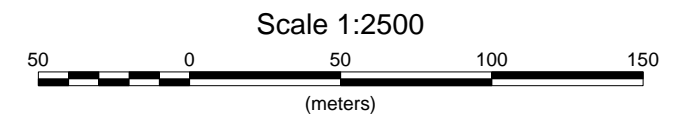
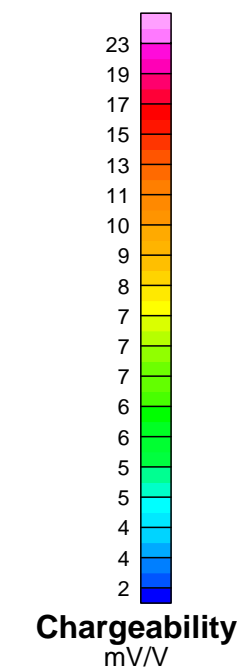
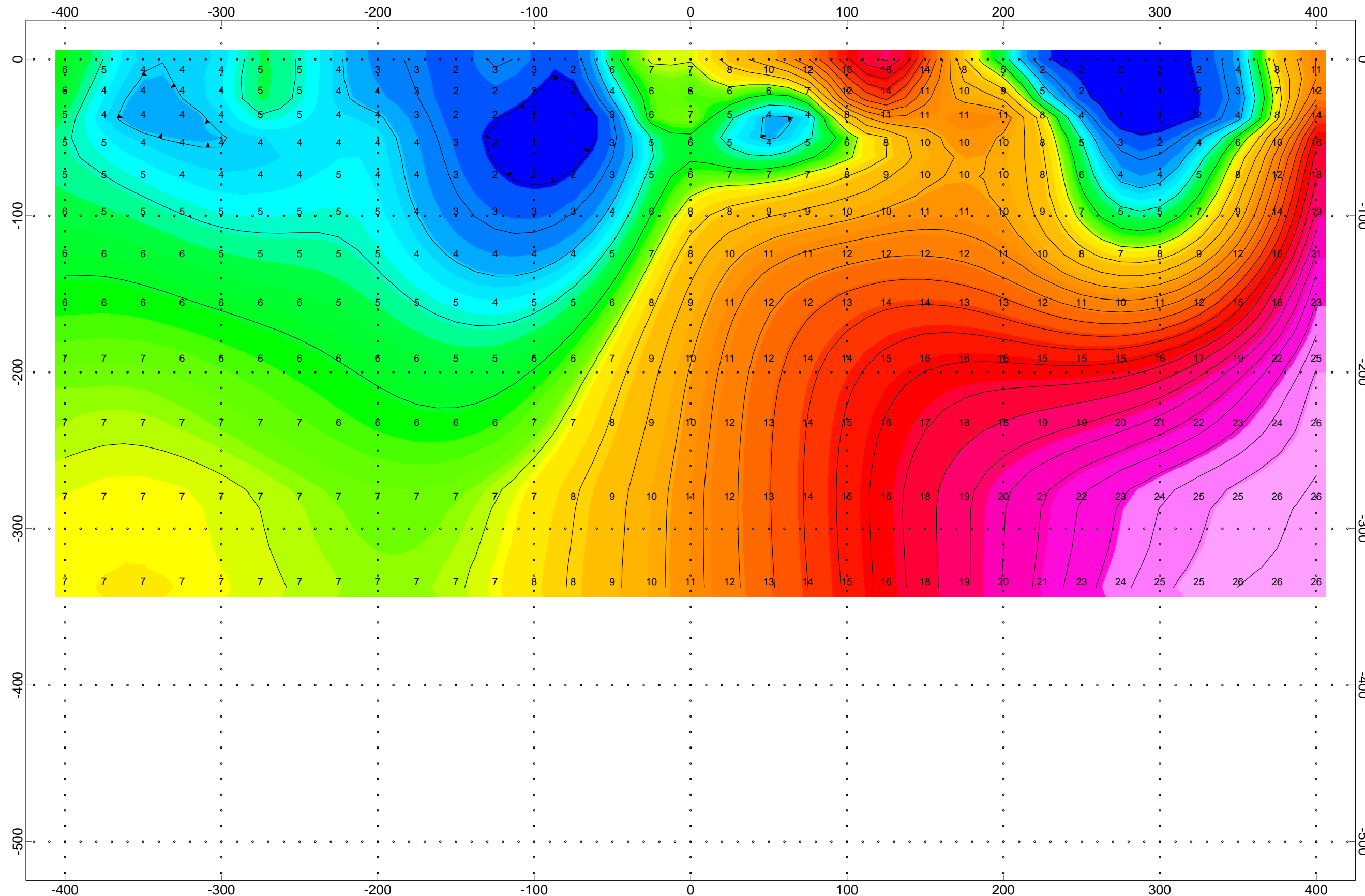
GeoTomo Inversion Software  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)


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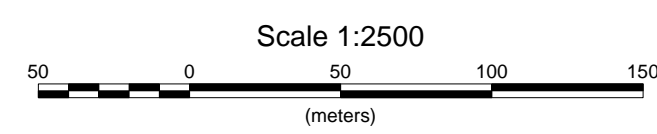
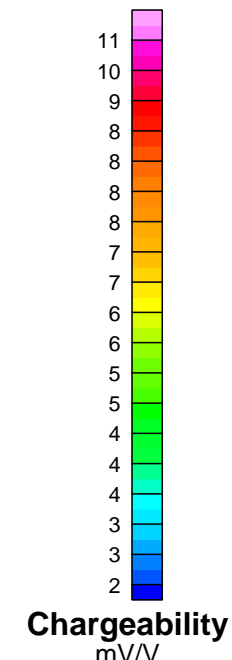
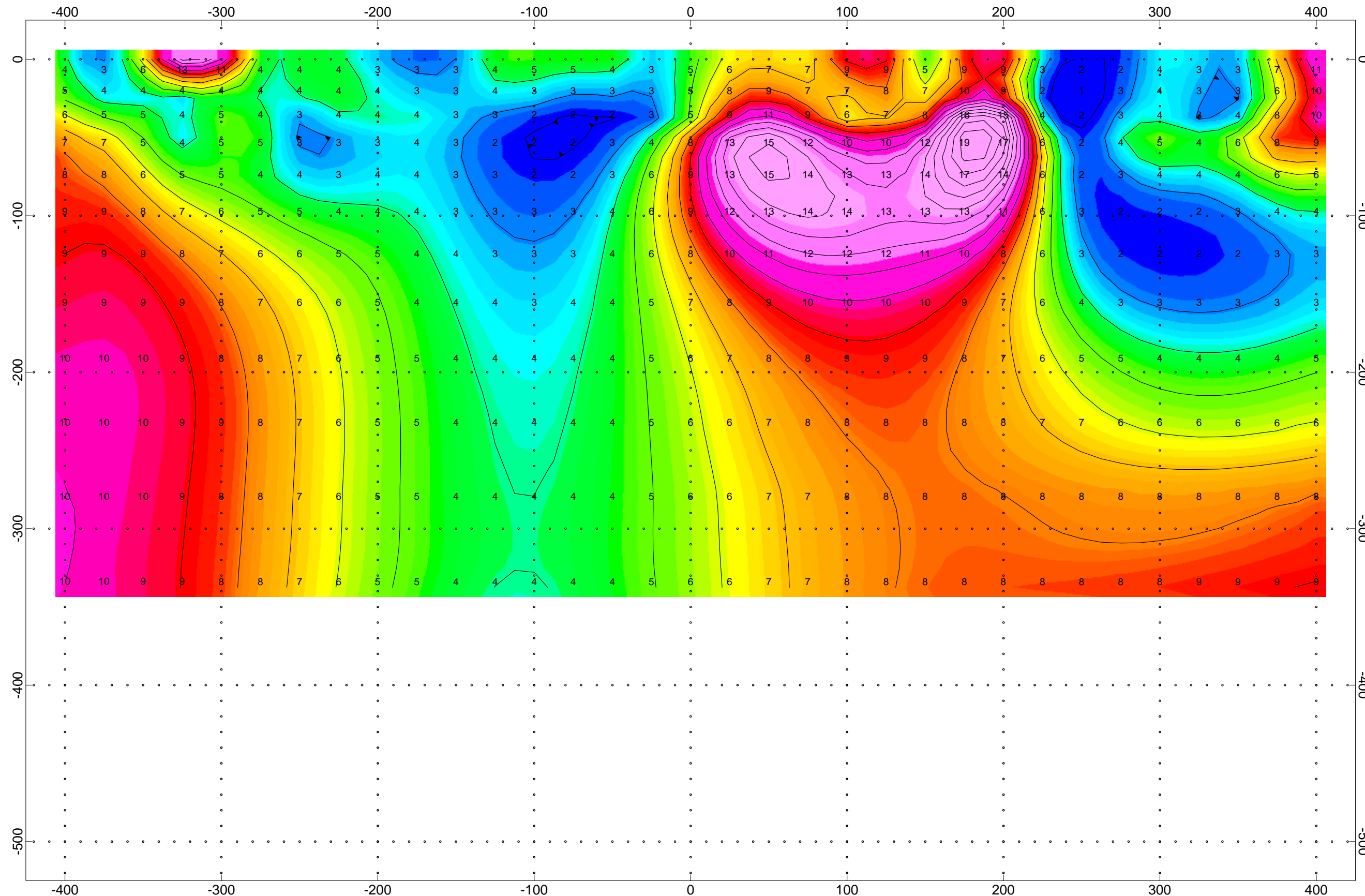
Receiver Operated By: Bruce Lavalley  
and Claudia Moraga  
Processed by: Jason Ploeger  
Map Drawn By: C Jason Ploeger, P.Geo  
August 2015



Drawing : ATACAMA-ALLSOPP HUSTON-INV-CHR-300E



<p><b>ATACAMA RESOURCES INTERNATIONAL INC.</b></p> <p><b>Allsopp Huston Grid</b> <b>Eby and Otto Township, Ontario</b></p>	
<p>Deep Induced Polarization Survey Combo Pole Dipole Induced Polarization Survey Inversion Chargeability Data Line 600E</p> <p>GeoTomo Inversion Software Rx: Iris Elrec Pro Tx: GDD II (5kW Time Domain)</p>	
<p>Receiver Operated By: Bruce Lavalley and Claudia Moraga Processed by: Jason Ploeger Map Drawn By: C Jason Ploeger, P.Geo August 2015</p>	
<p>Drawing : ATACAMA-ALLSOPP HUSTON-INV-CHR-600E</p>	



**ATACAMA RESOURCES  
INTERNATIONAL INC.**


**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

Deep Induced Polarization Survey  
Combo Pole Dipole Induced Polarization Survey  
Inversion Chargeability Data  
Line 900E

GeoTomo Inversion Software  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

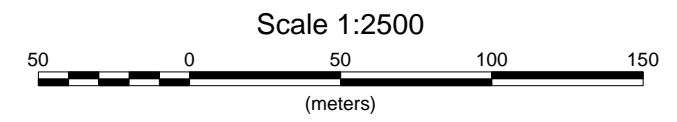
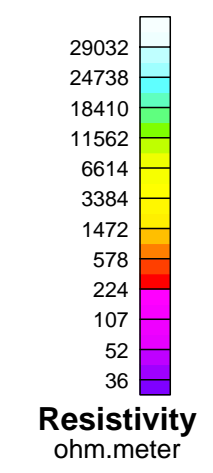
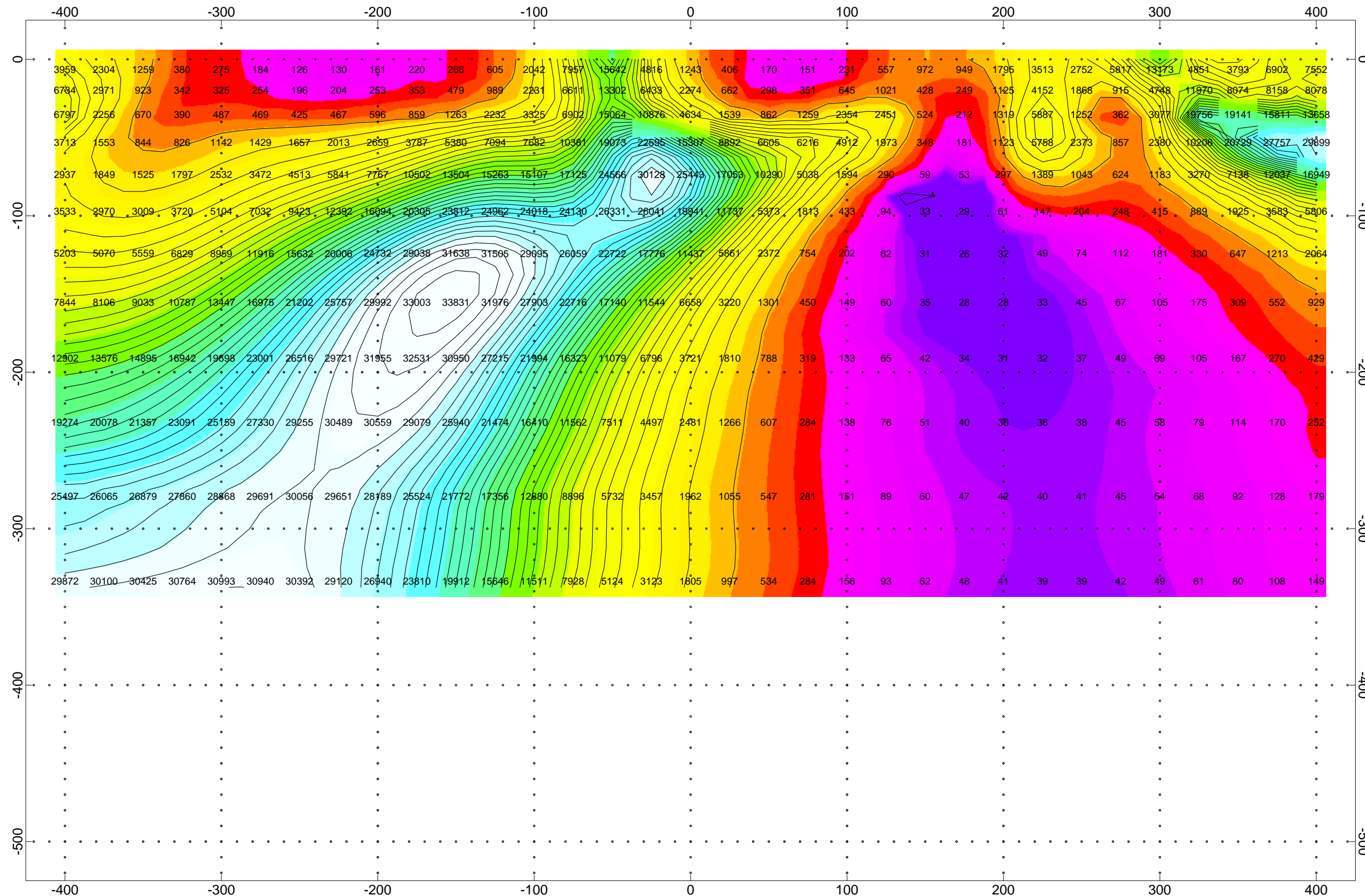
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Receiver Operated By: Bruce Lavalley  
and Claudia Moraga  
Processed by: Jason Ploeger  
Map Drawn By: C Jason Ploeger, P.Geo  
August 2015



*Drawing : ATACAMA-ALLSOPP HUSTON-INV-CHR-900E*





**ATACAMA RESOURCES INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

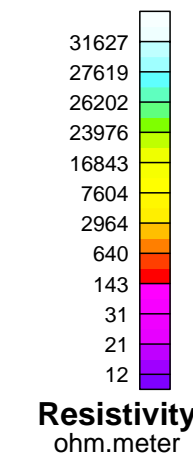
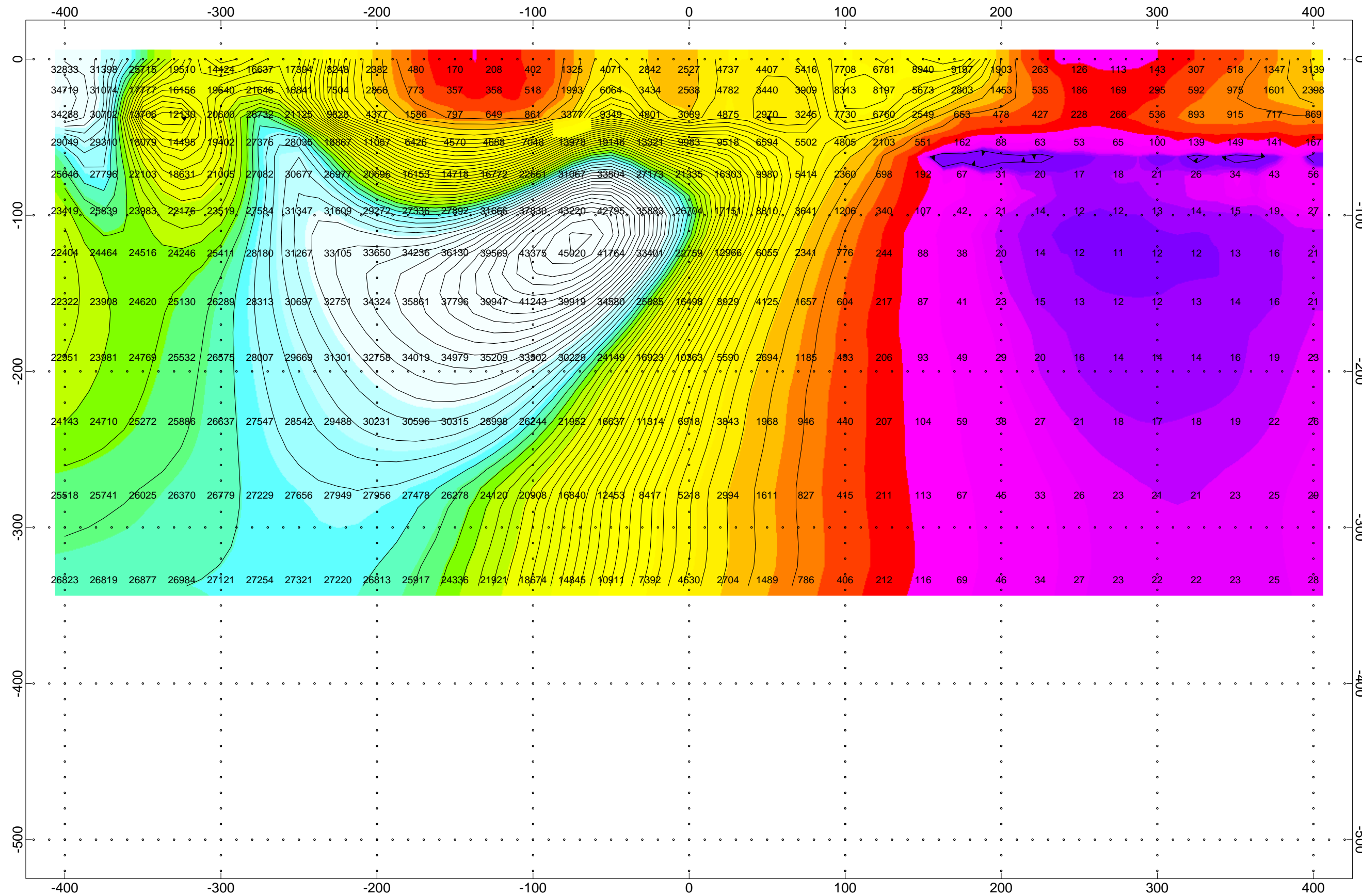
Deep Induced Polarization Survey  
Combo Pole Dipole Induced Polarization Survey  
Inversion Resistivity Data  
Line 300E

GeoTomo Inversion Software  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Receiver Operated By: Bruce Lavalley and Claudia Moraga  
Processed by: Jason Ploeger  
Map Drawn By: C Jason Ploeger, P.Geo  
August 2015

**CXS**  
CANADIAN EXPLORATION SERVICES LTD

Drawing : ATACAMA-ALLSOPP HUSTON-INV-RES-300E



**ATACAMA RESOURCES  
INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

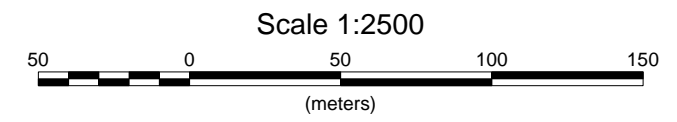
Deep Induced Polarization Survey  
Combo Pole Dipole Induced Polarization Survey  
Inversion Resistivity Data  
Line 600E

GeoTomo Inversion Software  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

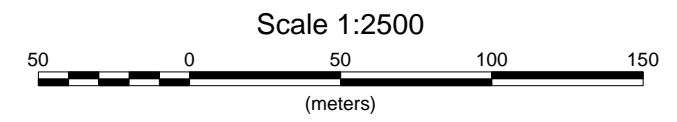
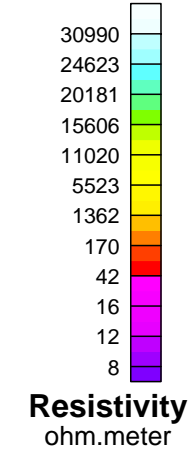
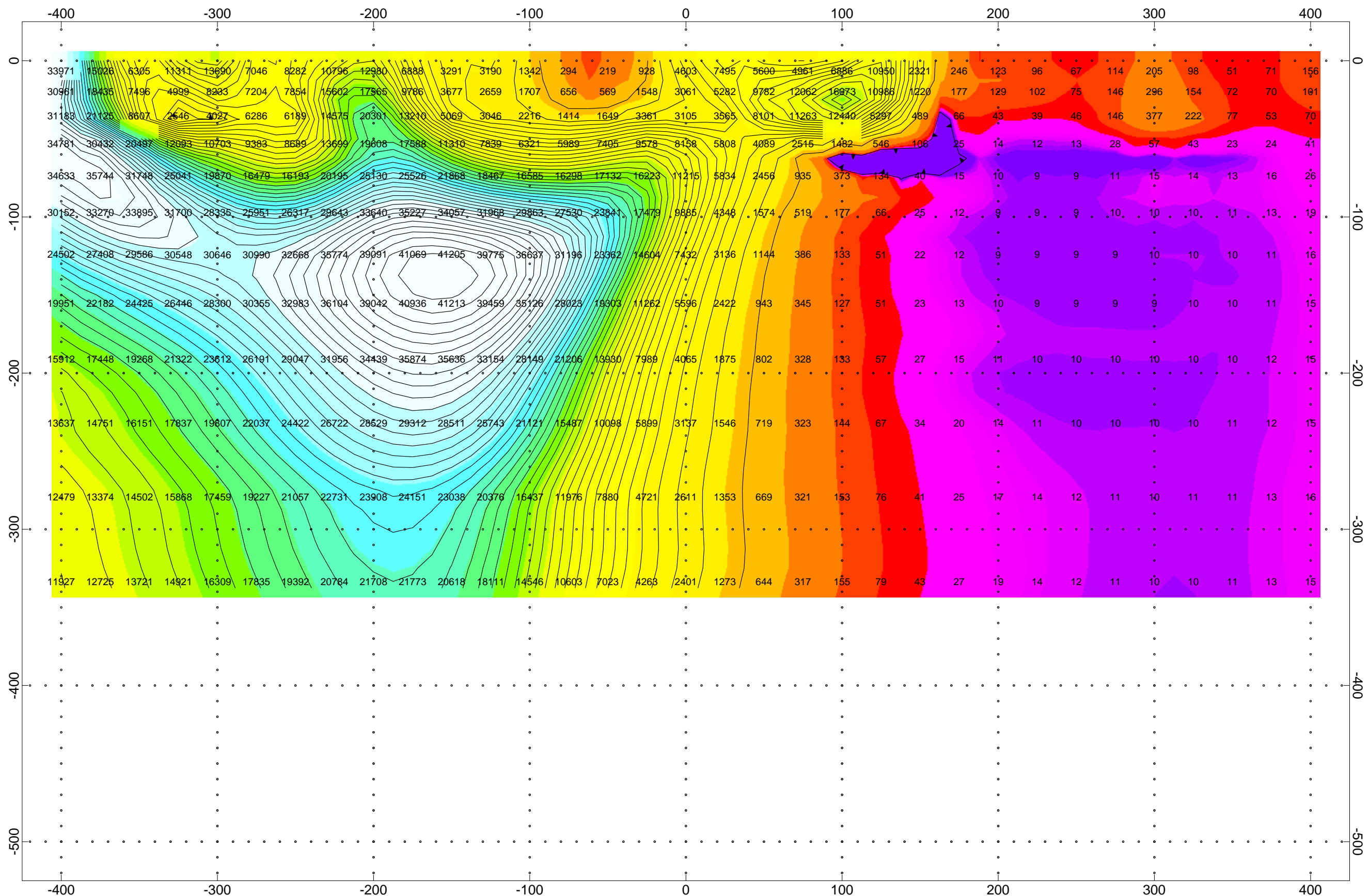
Receiver Operated By: Bruce Lavalley  
and Claudia Moraga  
Processed by: Jason Ploeger  
Map Drawn By: C Jason Ploeger, P.Geo  
August 2015

**CXS**  
CANADIAN EXPLORATION SERVICES LTD

Drawing : ATACAMA-ALLSOPP HUSTON-INV-RES-600E







**ATACAMA RESOURCES  
INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

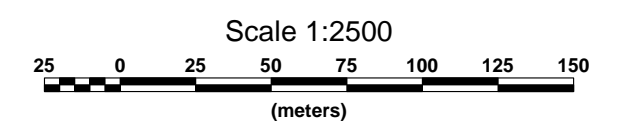
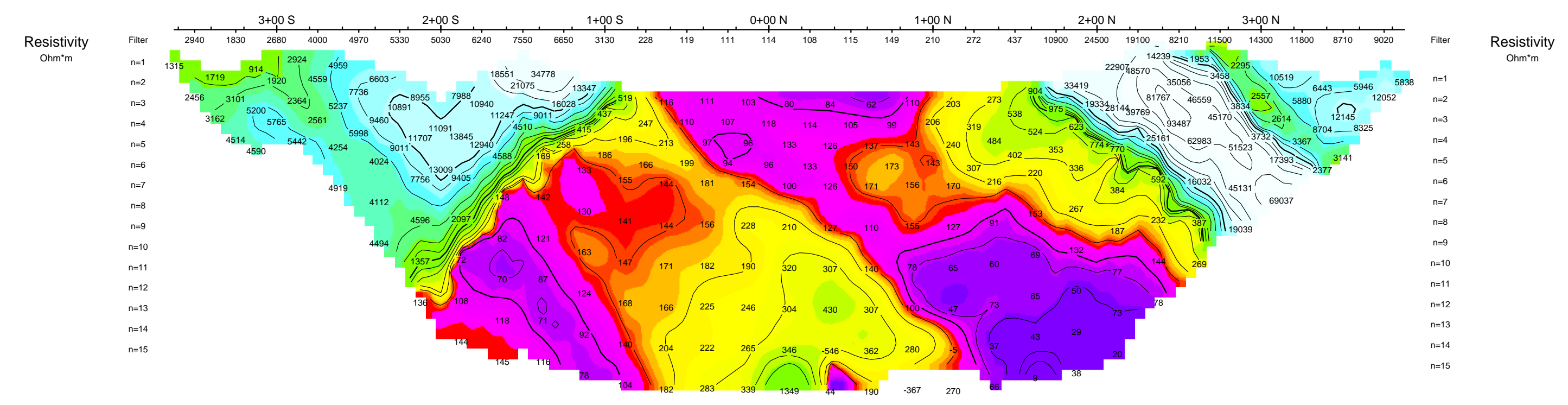
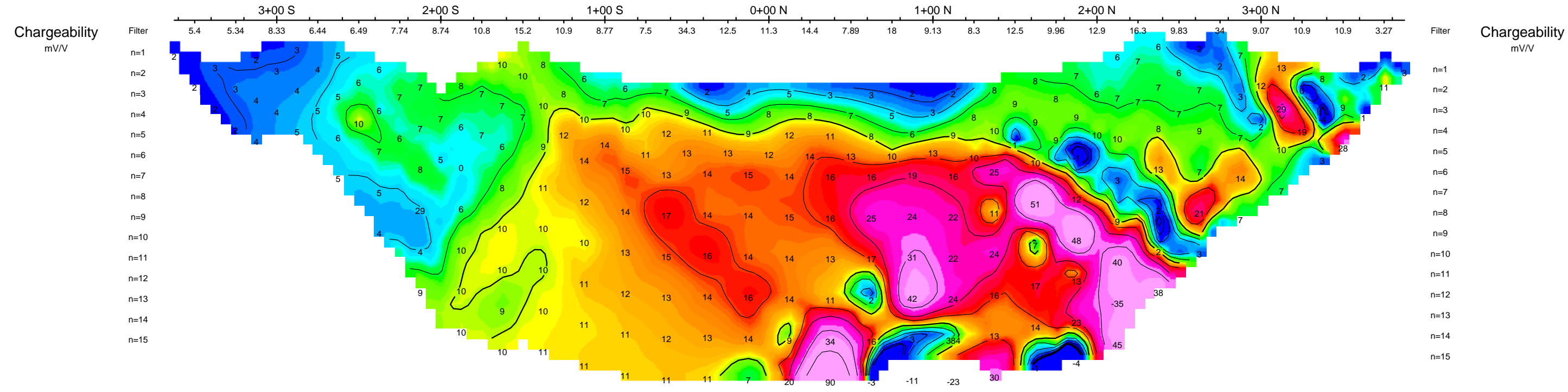
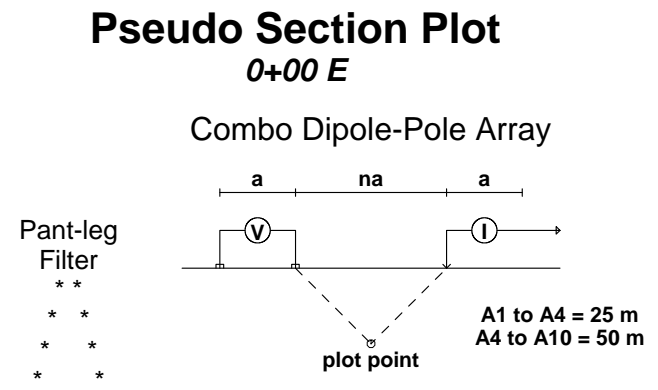
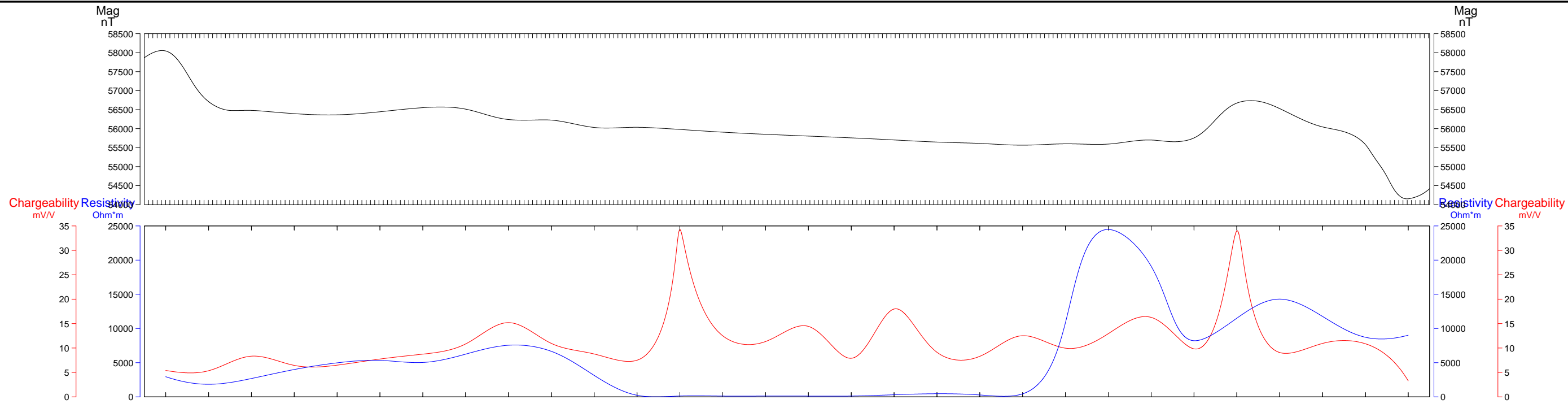
Deep Induced Polarization Survey  
Combo Pole Dipole Induced Polarization Survey  
Inversion Resistivity Data  
Line 900E

GeoTomo Inversion Software  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Receiver Operated By: Bruce Lavalley  
and Claudia Moraga  
Processed by: Jason Ploeger  
Map Drawn By: C Jason Ploeger, P.Geo  
August 2015

**CXS**  
CANADIAN EXPLORATION SERVICES LTD

Drawing : ATACAMA-ALLSOPP HUSTON-INV-RES-900E



**ATACAMA RESOURCES  
INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

Pole Dipole Combo Induced Polarization Survey

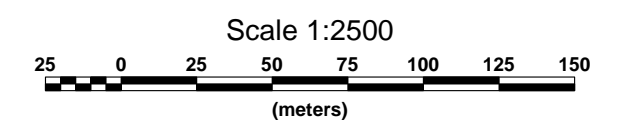
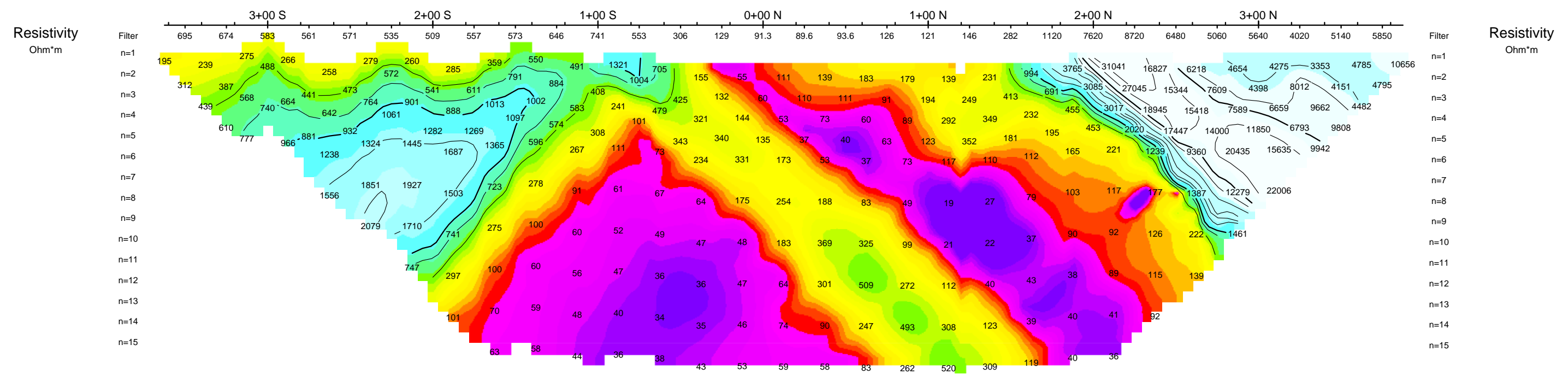
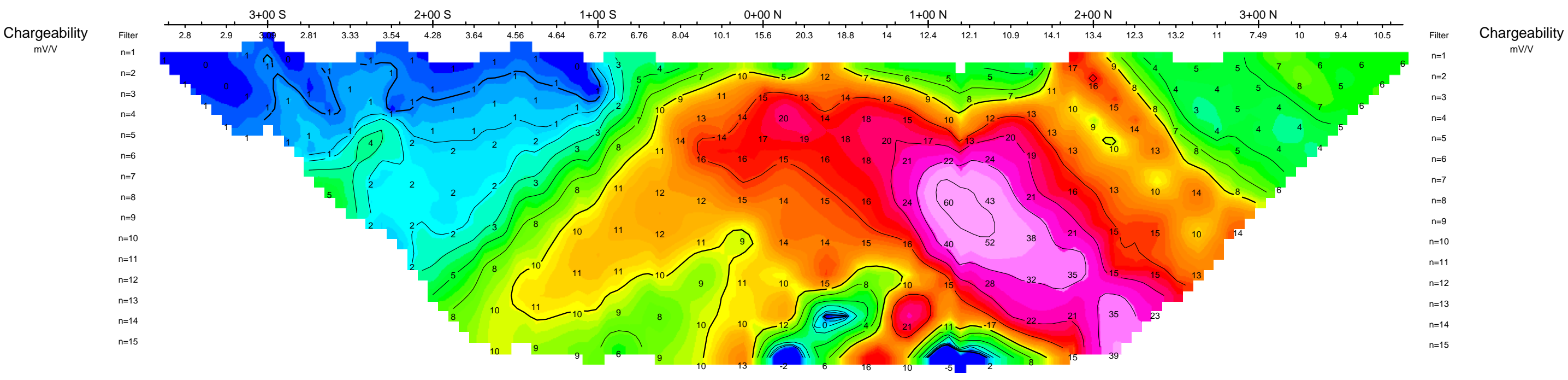
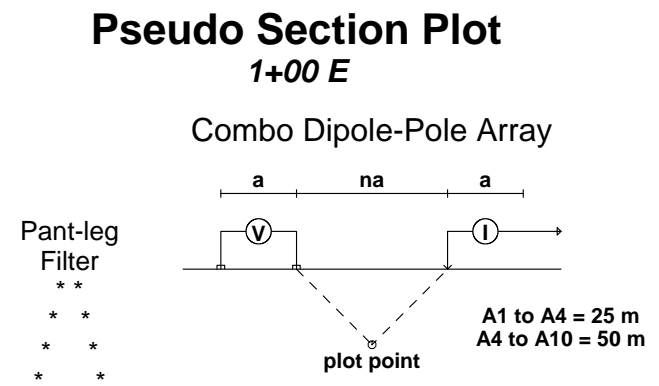
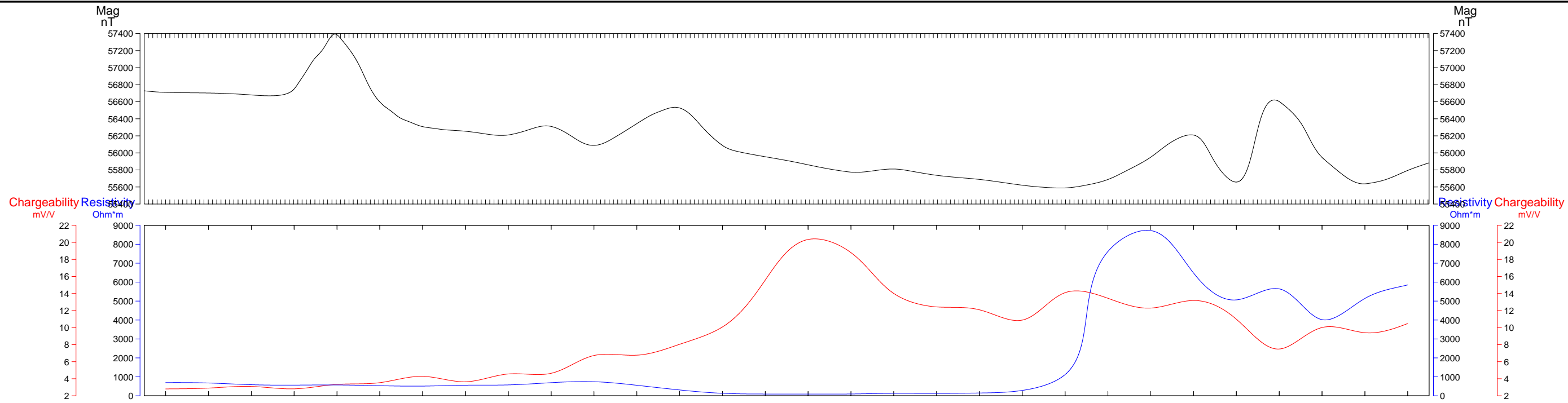
Interval: 2 seconds  
Current: 50-4200 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015



Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-0E





**ATACAMA RESOURCES  
INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

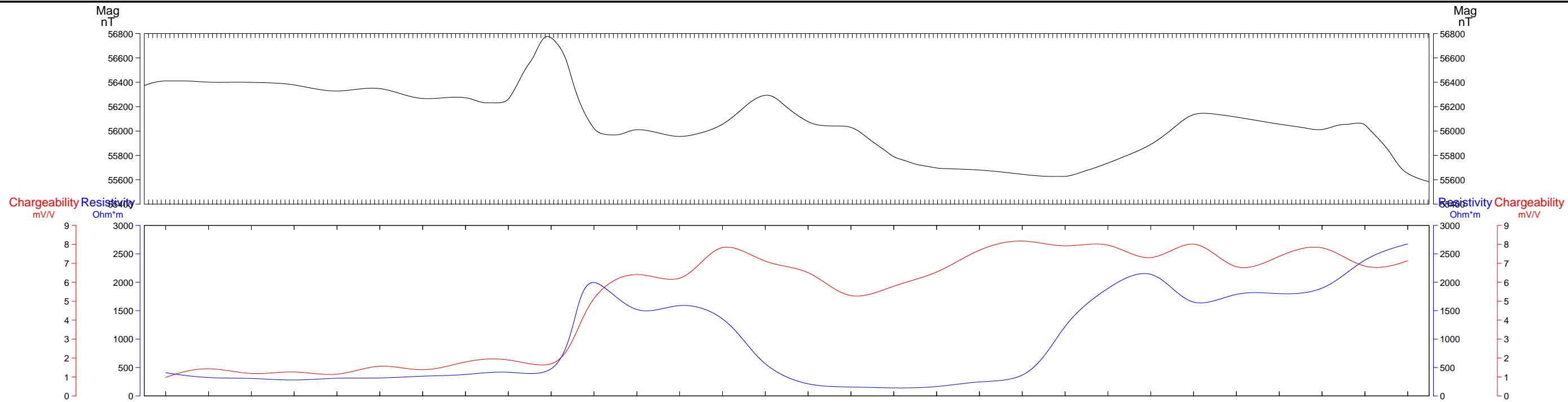
Pole Dipole Combo Induced Polarization Survey

Interval: 2 seconds  
Current: 100-4300 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

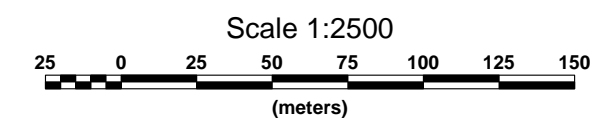
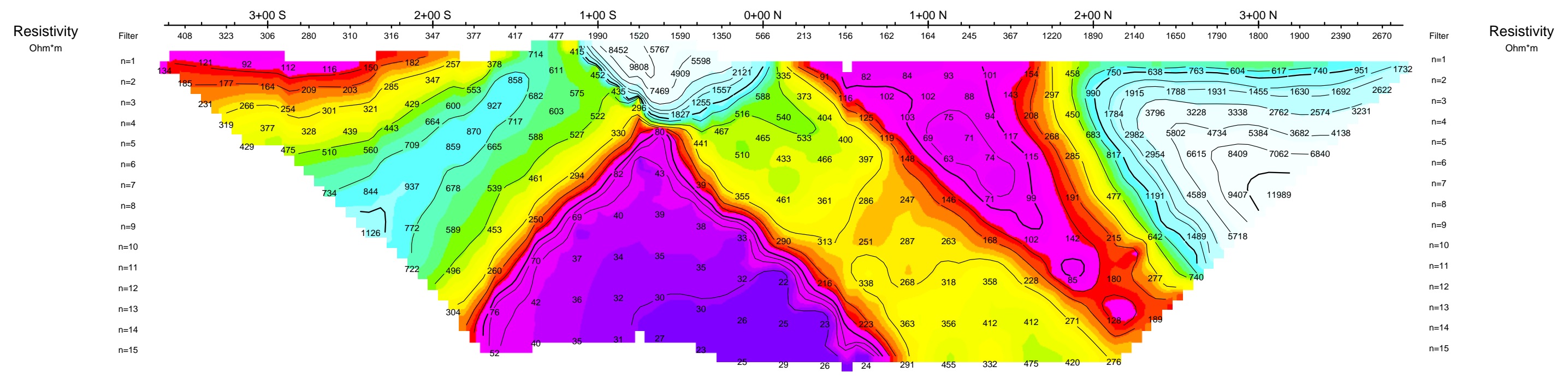
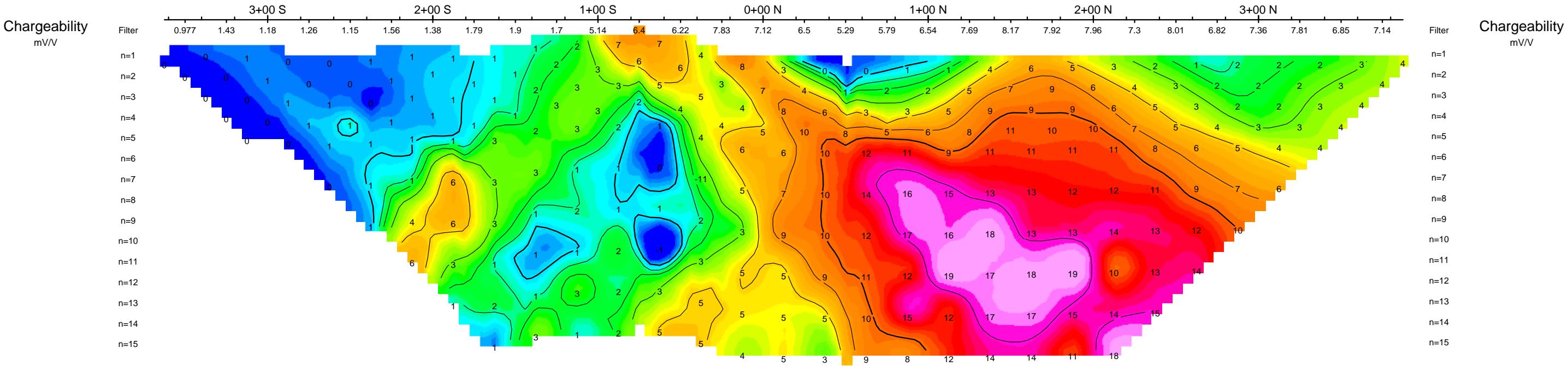
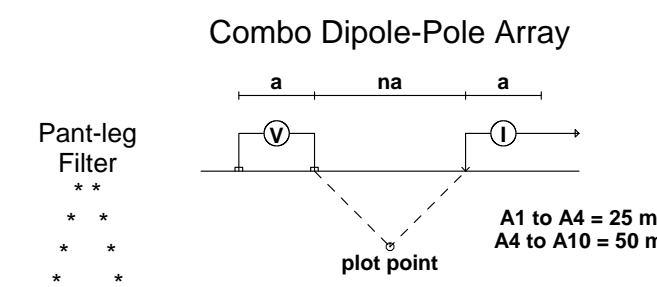
Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015



Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-100E



### Pseudo Section Plot 2+00 E



## ATACAMA RESOURCES INTERNATIONAL INC.

Allsopp Huston Grid  
Eby and Otto Township, Ontario

Pole Dipole Combo Induced Polarization Survey

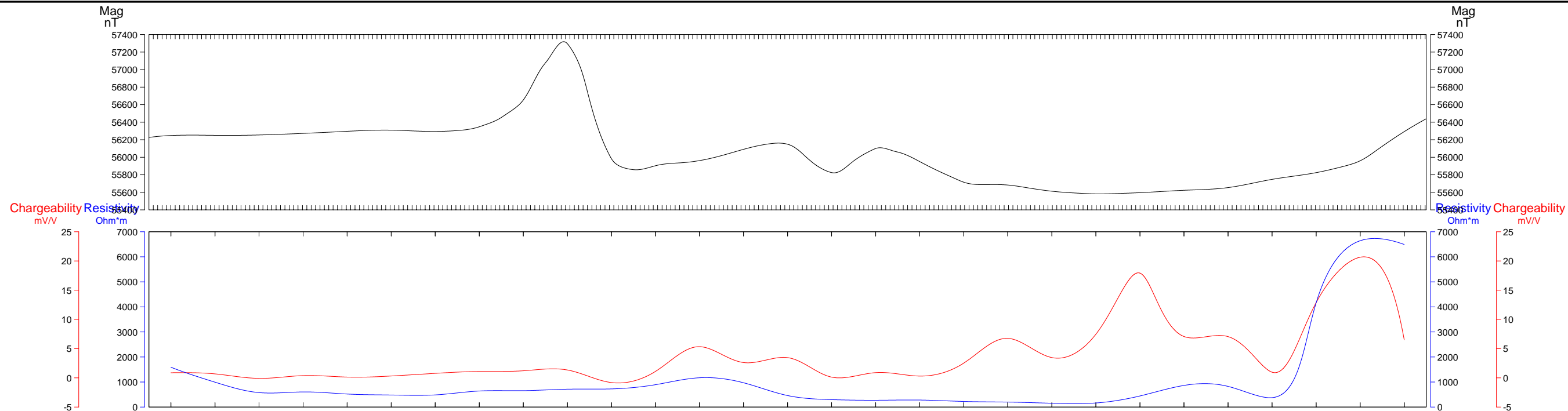
Interval: 2 seconds  
Current: 200-3000 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015



Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-200E



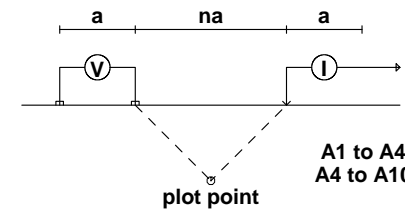


**Pseudo Section Plot**

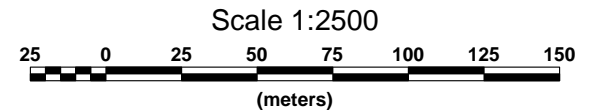
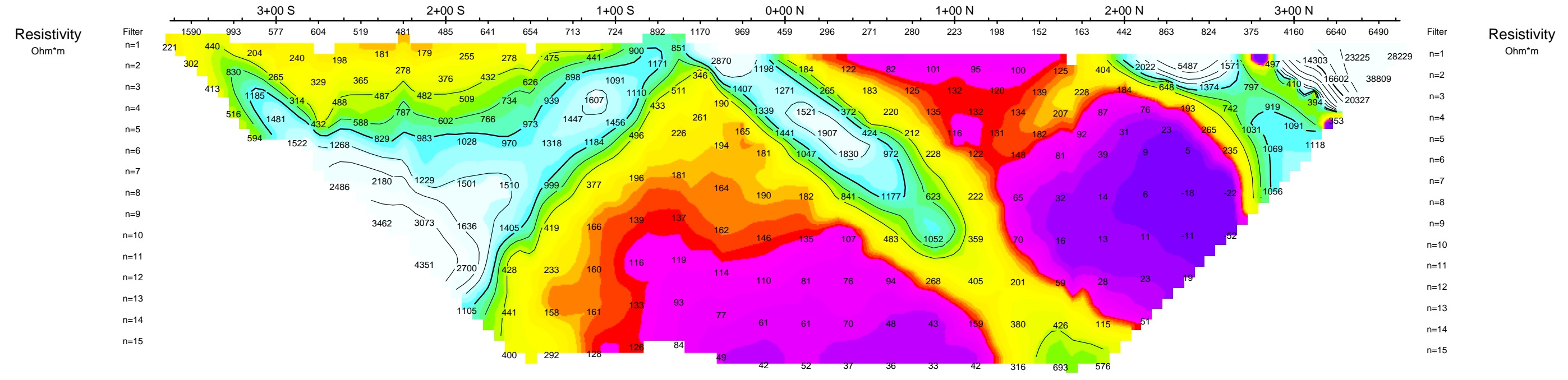
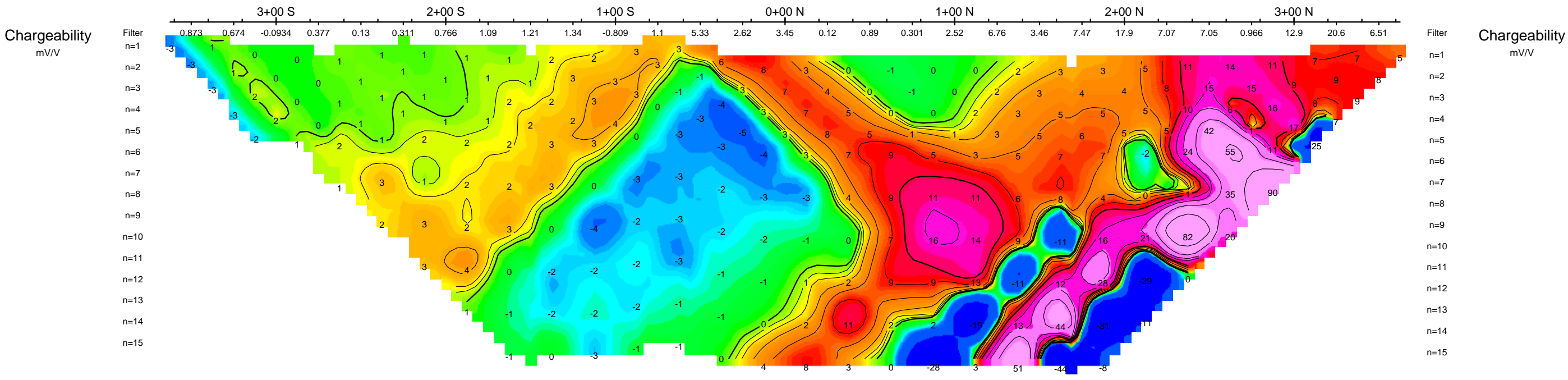
3+00 E

Combo Dipole-Pole Array

Pant-leg  
Filter  
\* \*  
\* \*  
\* \*



A1 to A4 = 25 m  
A4 to A10 = 50 m



**ATACAMA RESOURCES INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

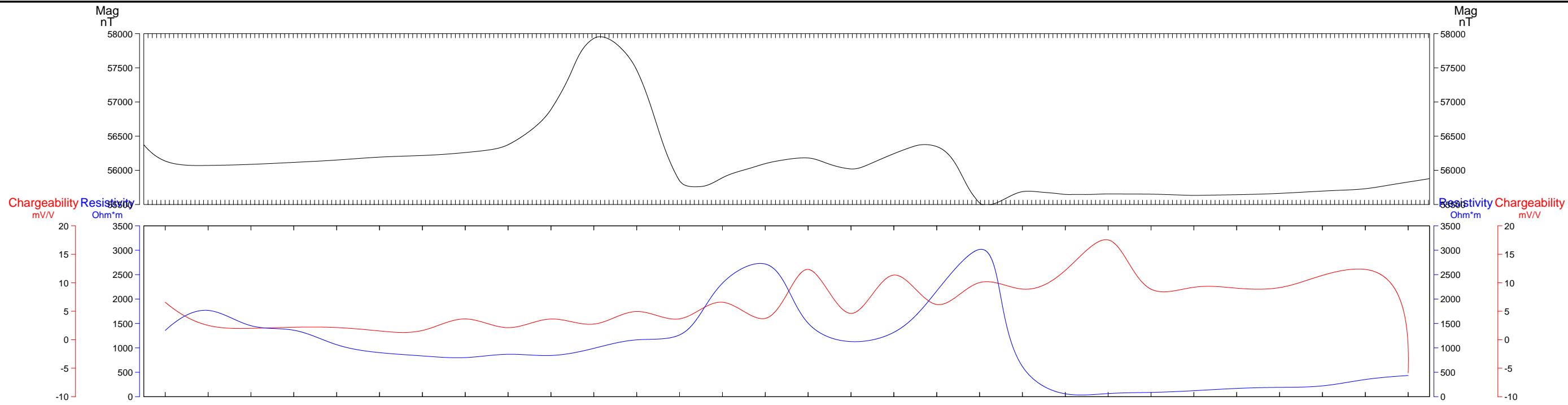
Pole Dipole Combo Induced Polarization Survey

Interval: 2 seconds  
Current: 50-3600 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

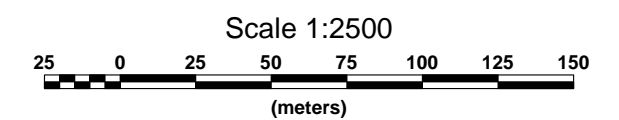
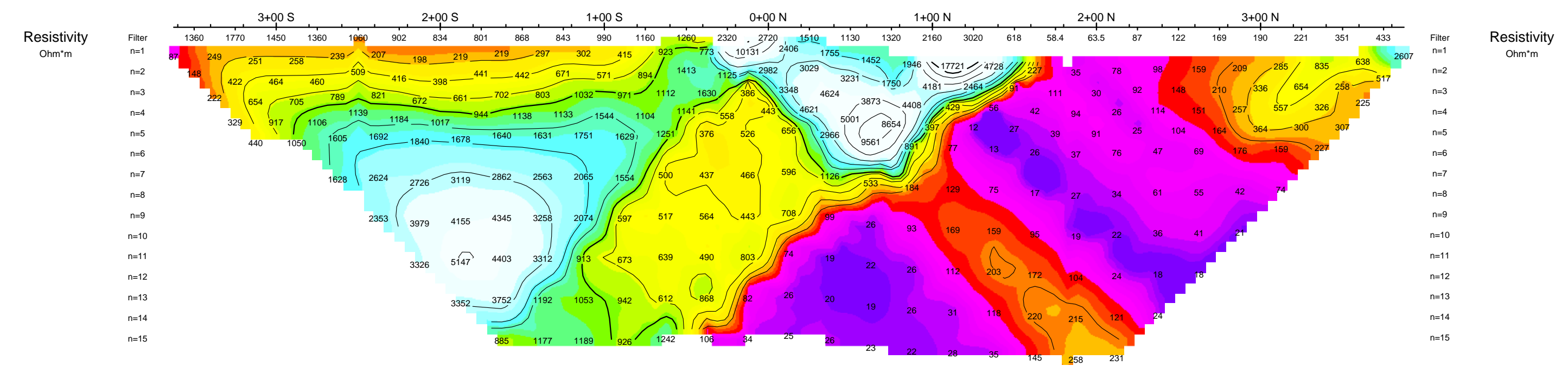
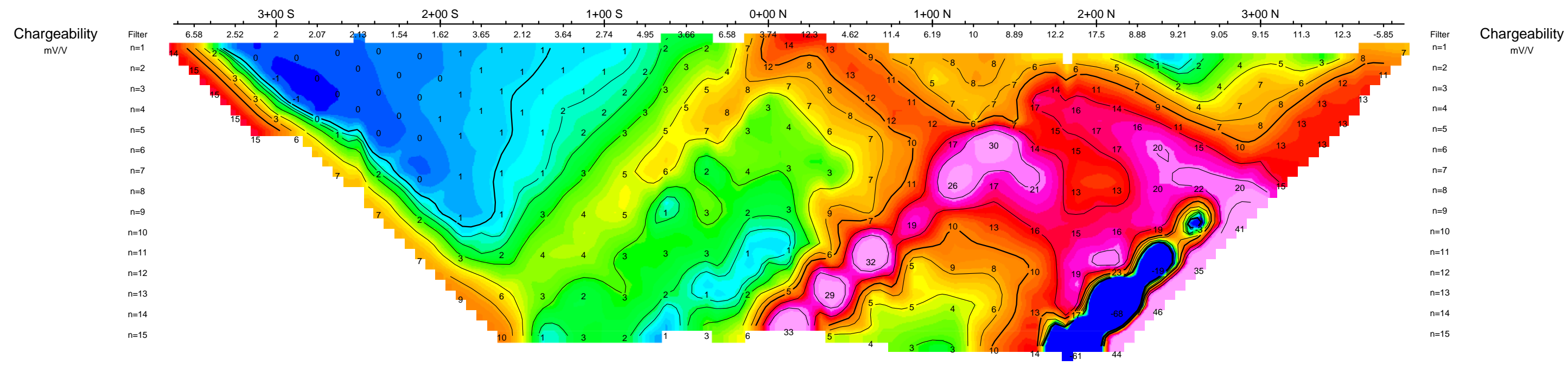
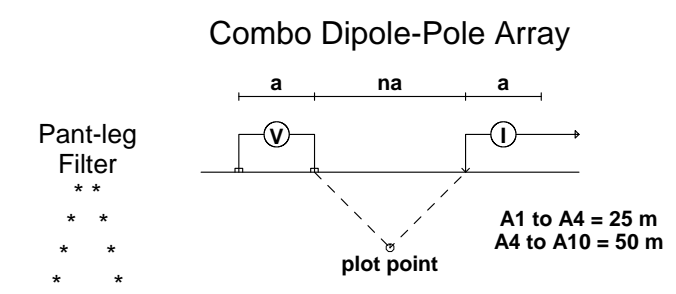
Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015



Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-300E



### Pseudo Section Plot 4+00 E



**ATACAMA RESOURCES  
INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

Pole Dipole Combo Induced Polarization Survey

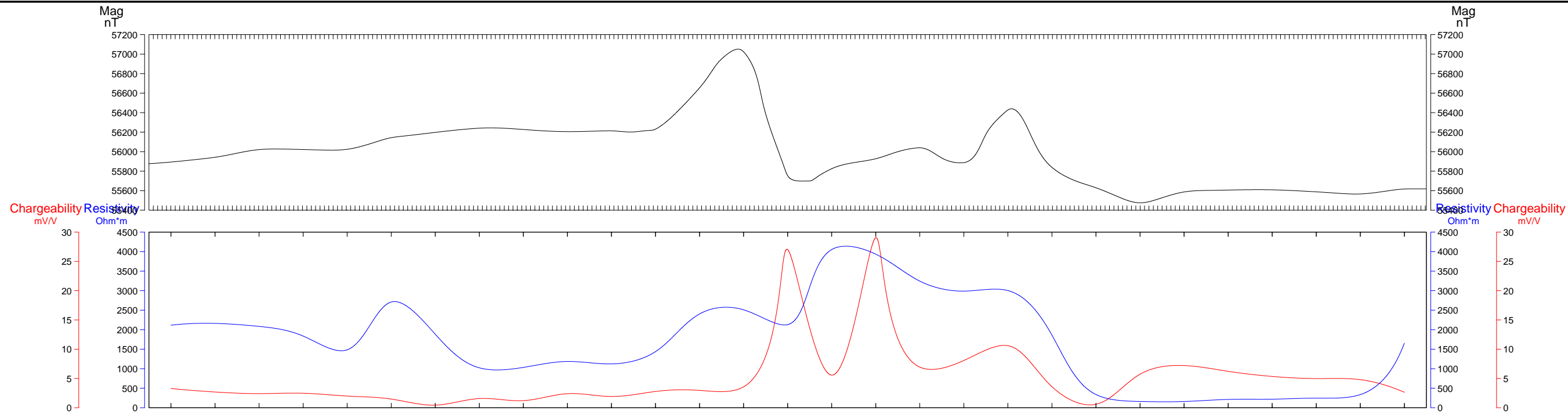
Interval: 2 seconds  
Current: 100-4800 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015



Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-400E

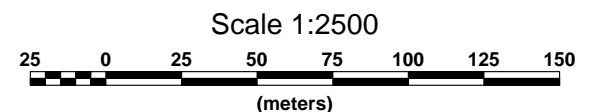
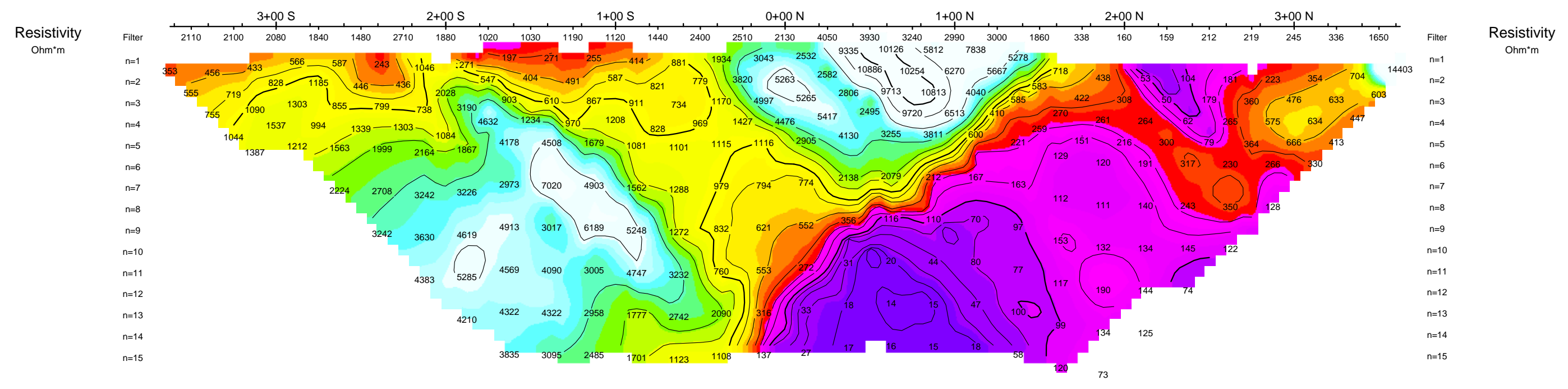
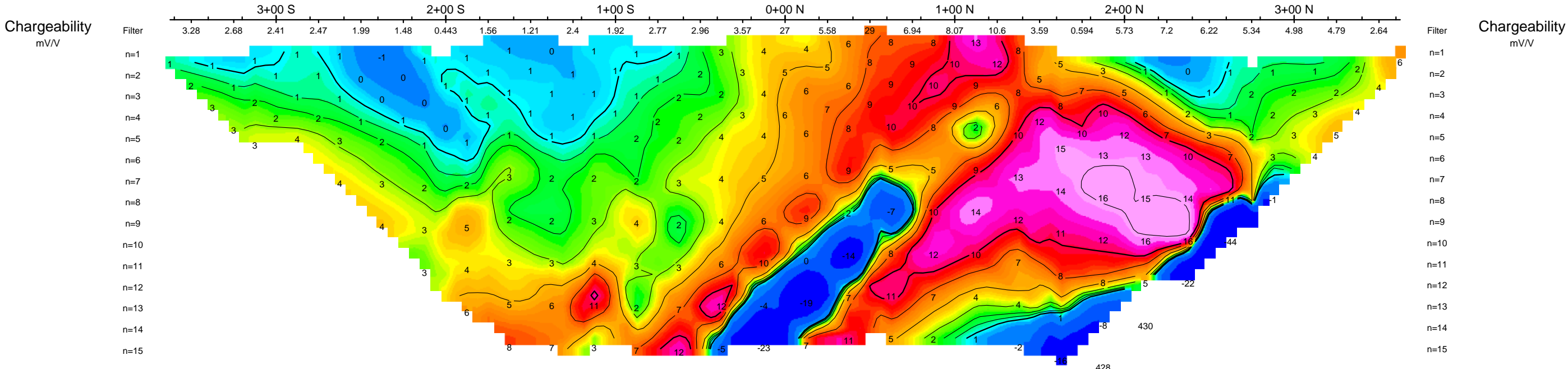
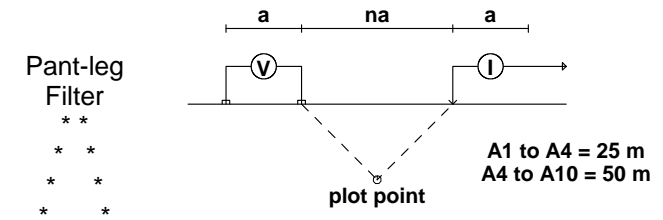




**Pseudo Section Plot**

5+00 E

Combo Dipole-Pole Array



**ATACAMA RESOURCES INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

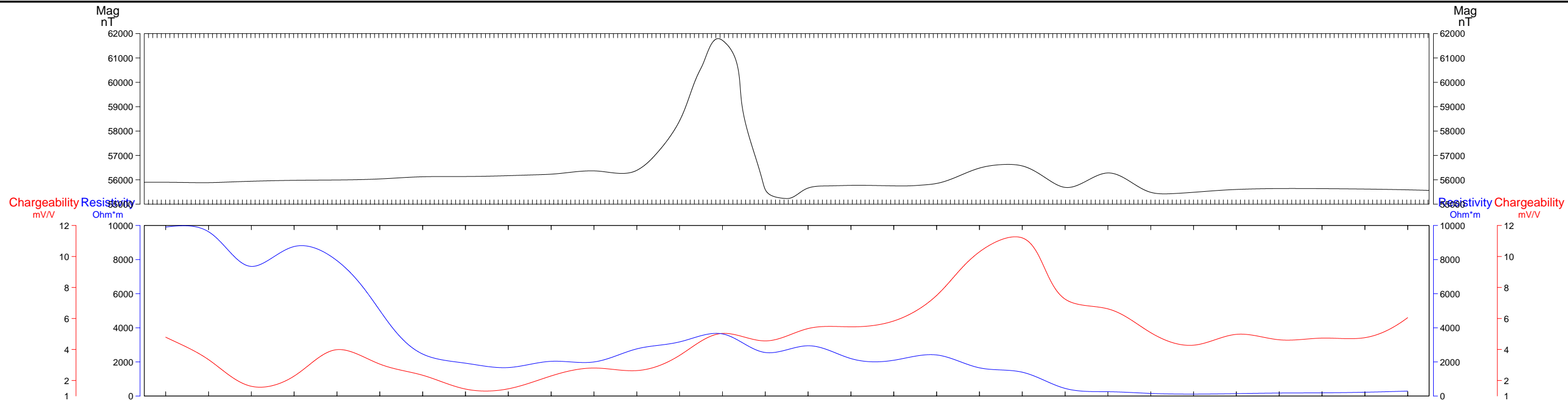
Pole Dipole Combo Induced Polarization Survey

Interval: 2 seconds  
Current: 60-3800 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015



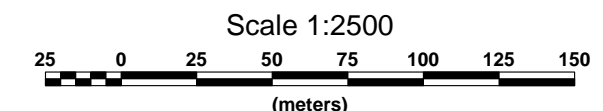
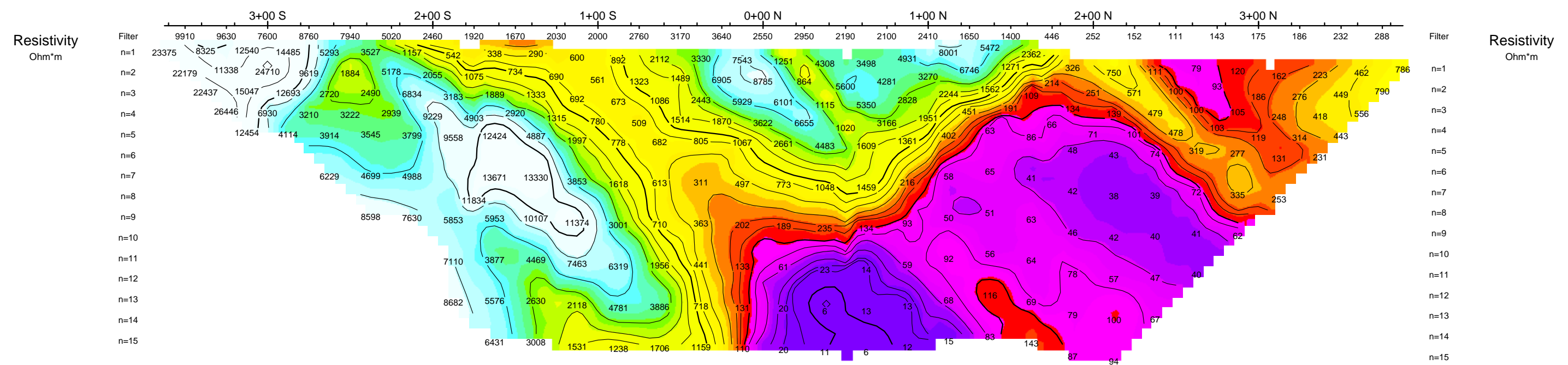
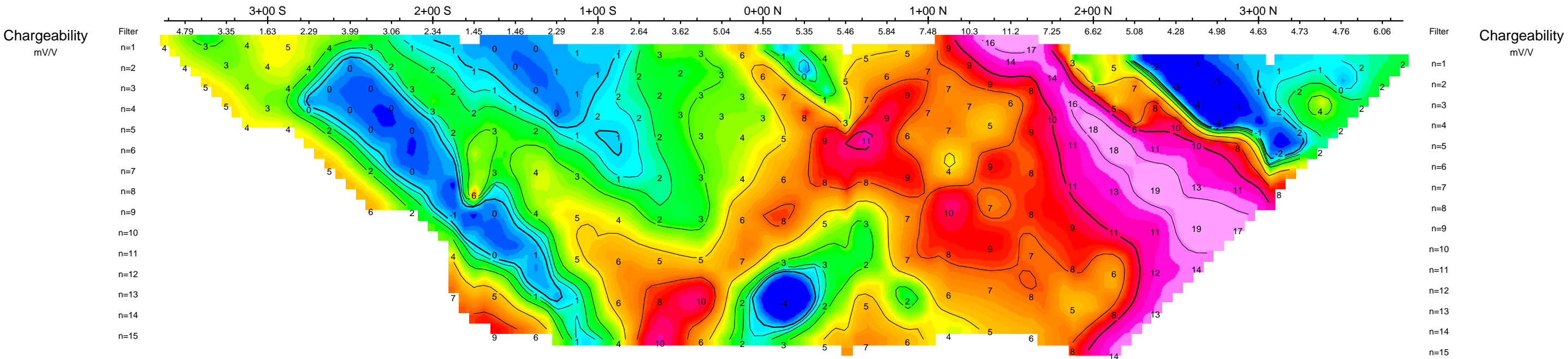
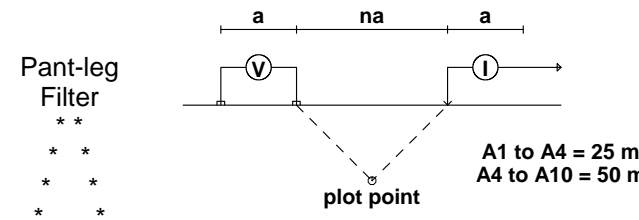
Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-500E



### Pseudo Section Plot

6+00 E

Combo Dipole-Pole Array



## ATACAMA RESOURCES INTERNATIONAL INC.

Allsopp Huston Grid  
Eby and Otto Township, Ontario

Pole Dipole Combo Induced Polarization Survey

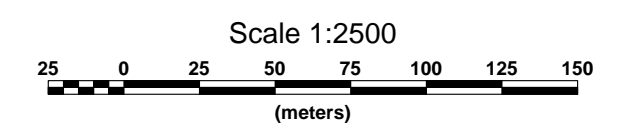
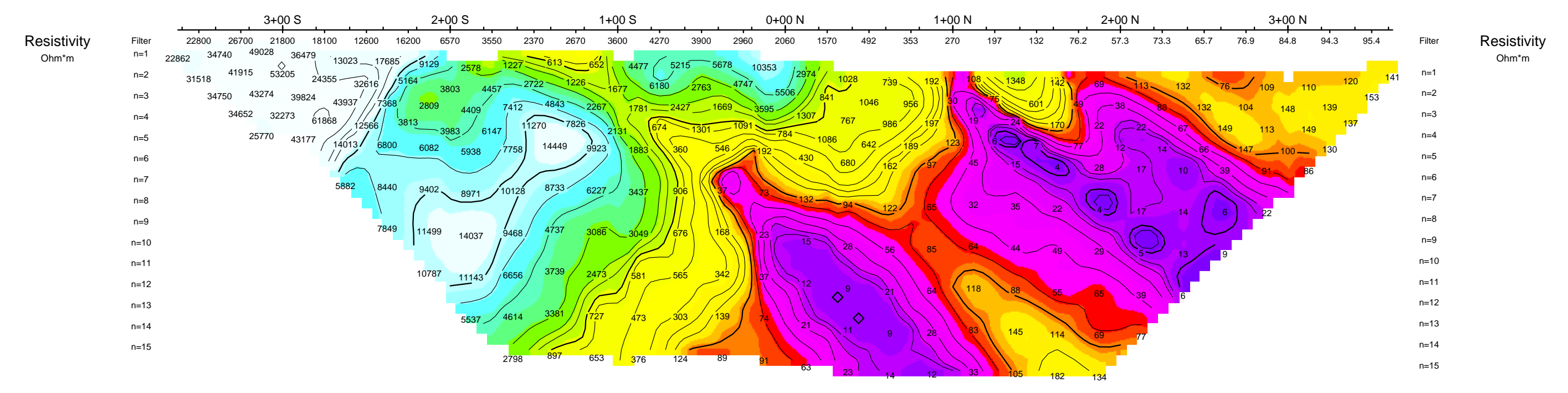
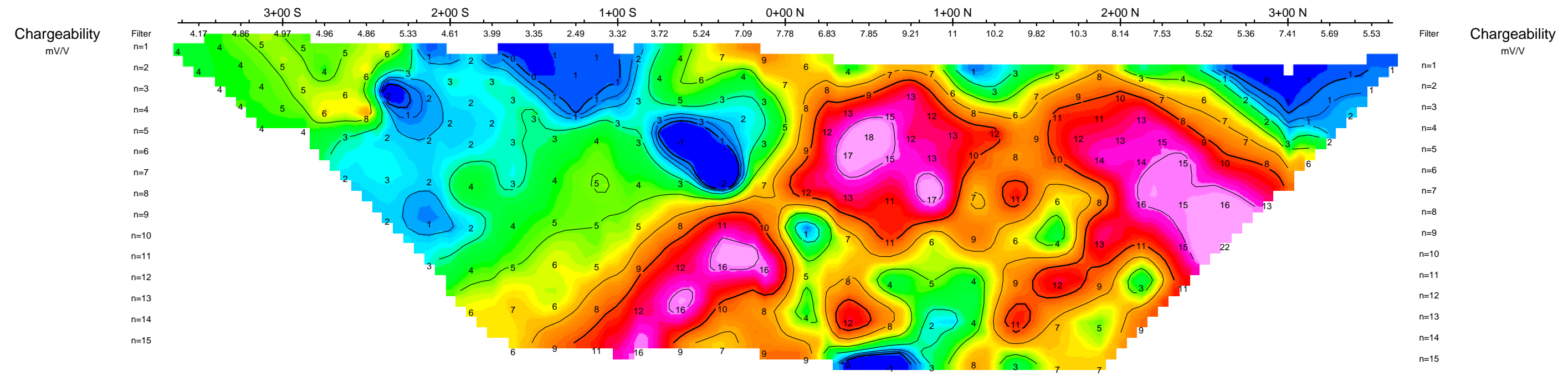
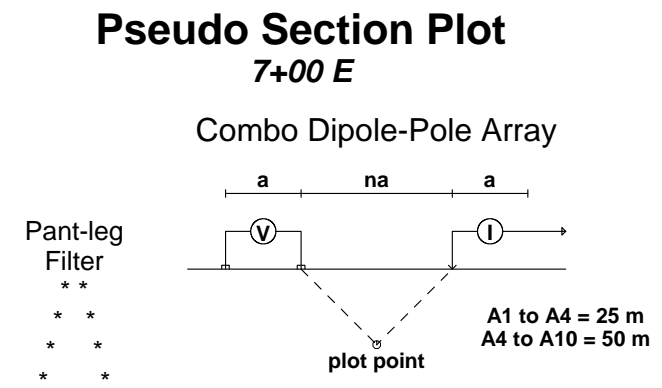
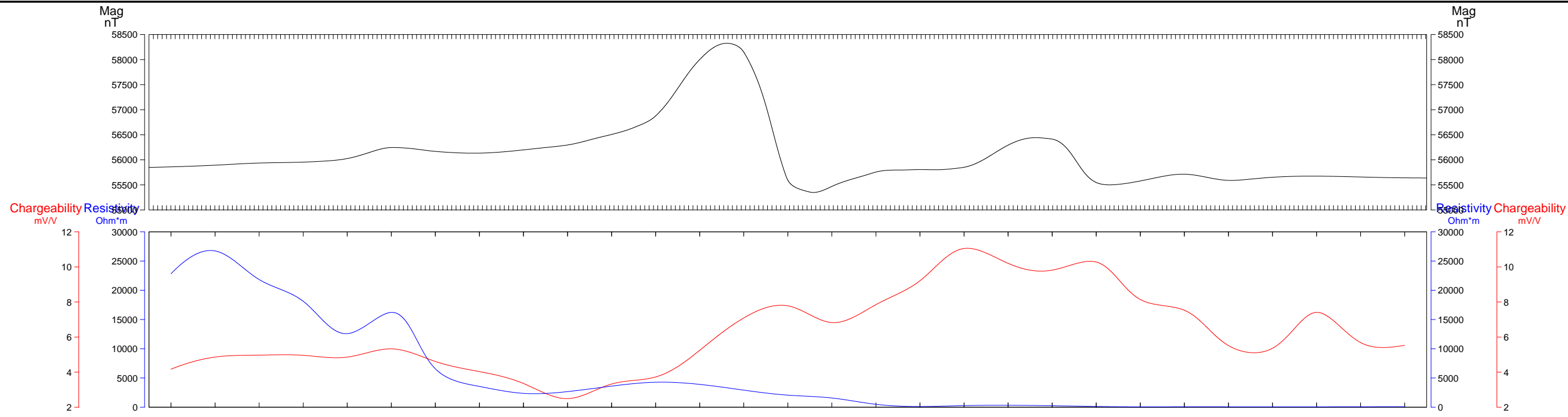
Interval: 2 seconds  
Current: 50-3600 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015



Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-600E





**ATACAMA RESOURCES INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

Pole Dipole Combo Induced Polarization Survey

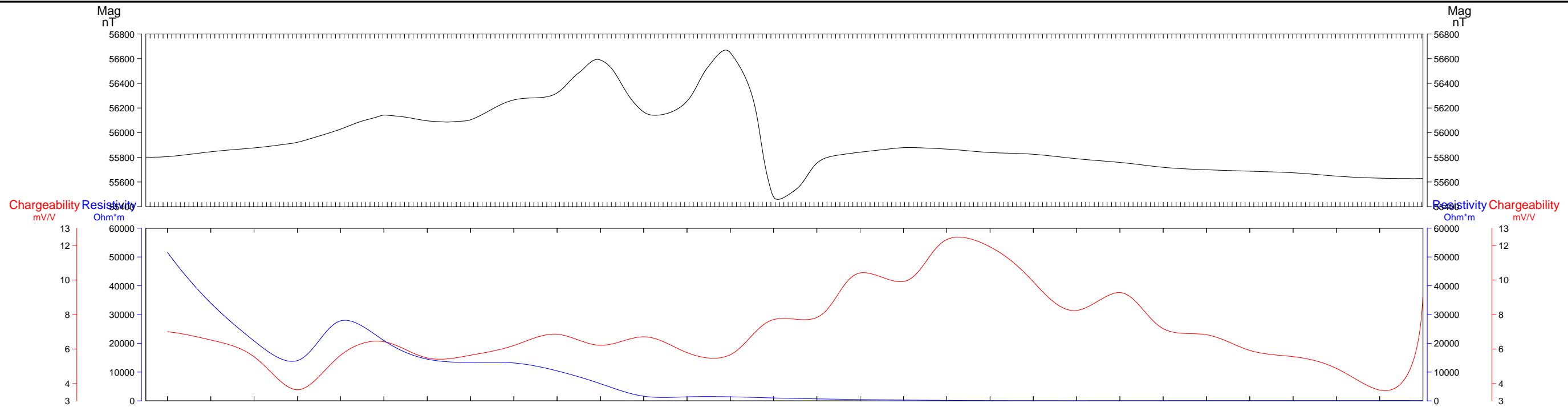
Interval: 2 seconds  
Current: 50-4200 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015

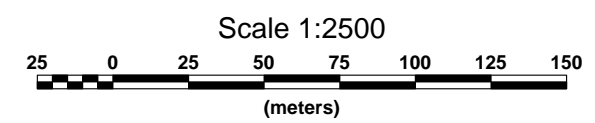
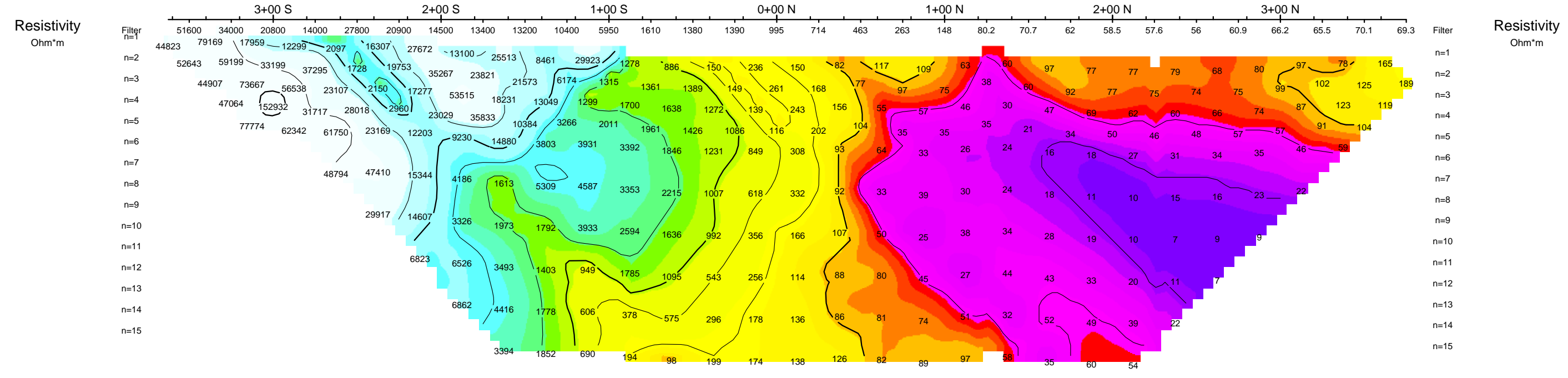
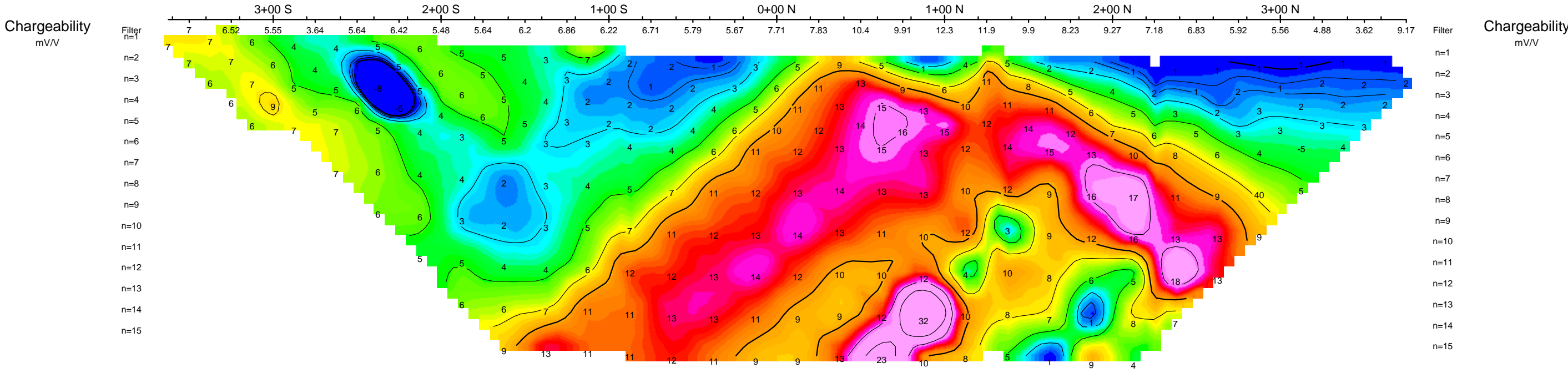
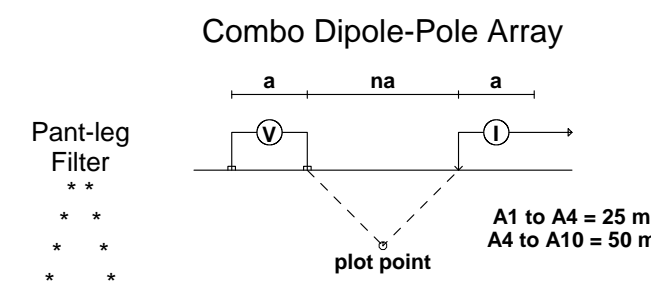


Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-700E





### Pseudo Section Plot 8+00 E



**ATACAMA RESOURCES INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

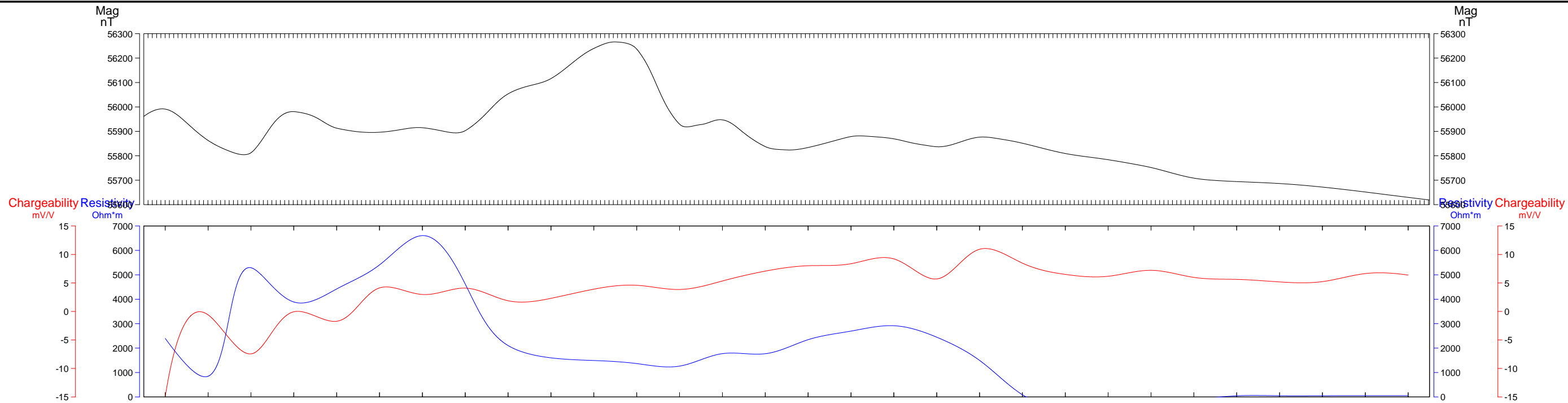
Pole Dipole Combo Induced Polarization Survey

Interval: 2 seconds  
Current: 30-4000 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

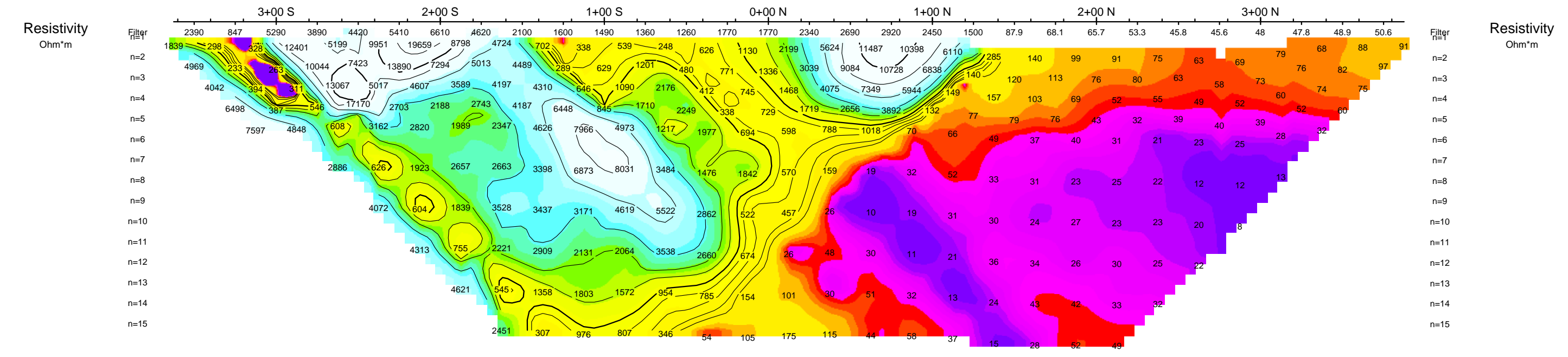
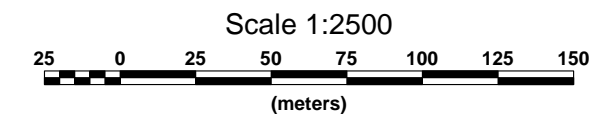
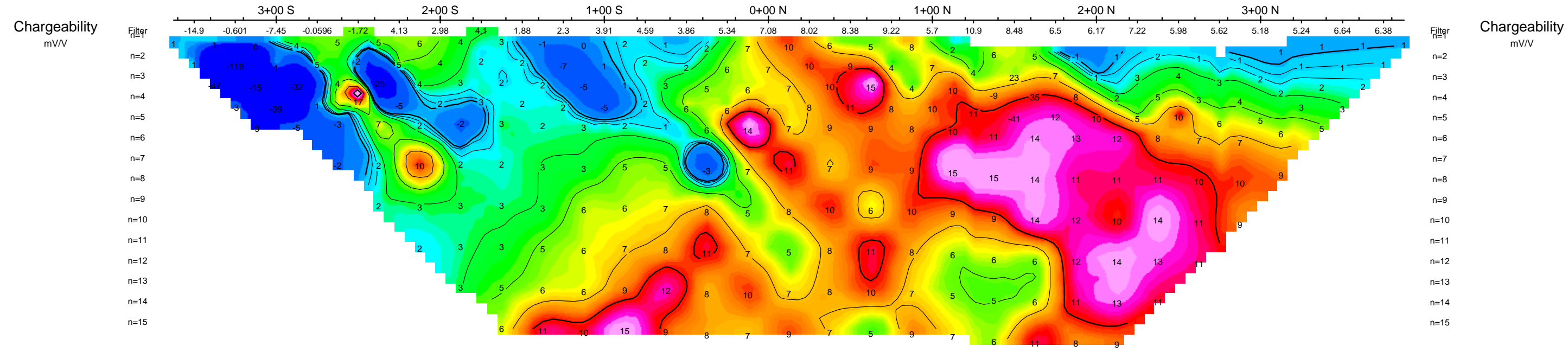
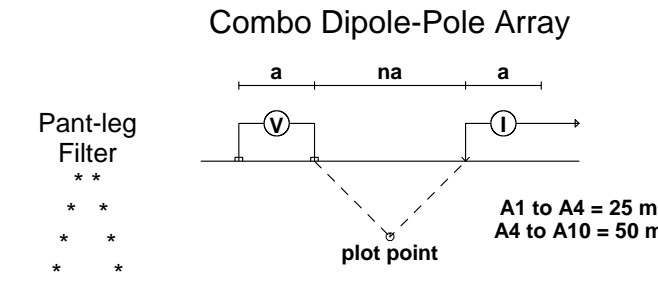
Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015



Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-800E



### Pseudo Section Plot 9+00 E



## ATACAMA RESOURCES INTERNATIONAL INC.

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

Pole Dipole Combo Induced Polarization Survey

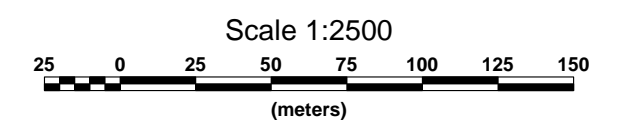
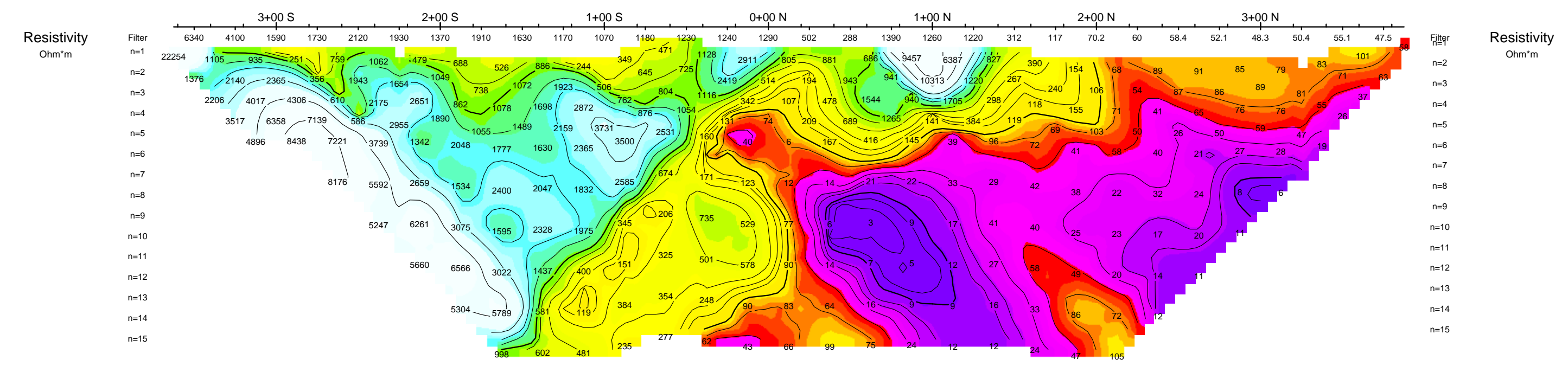
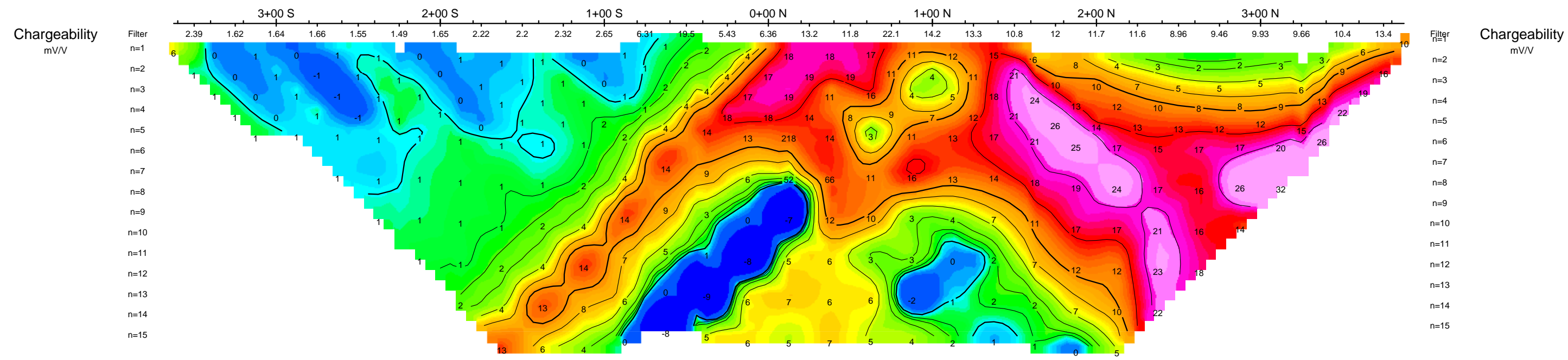
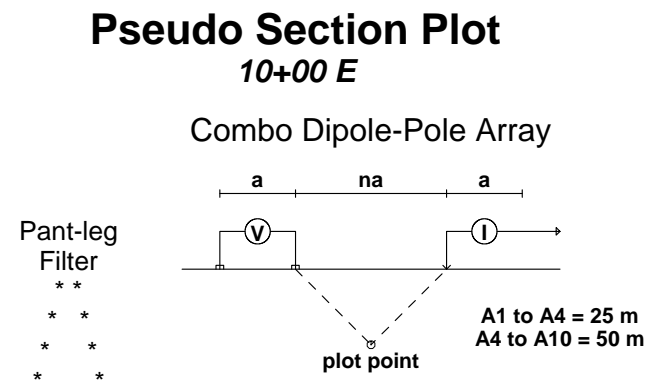
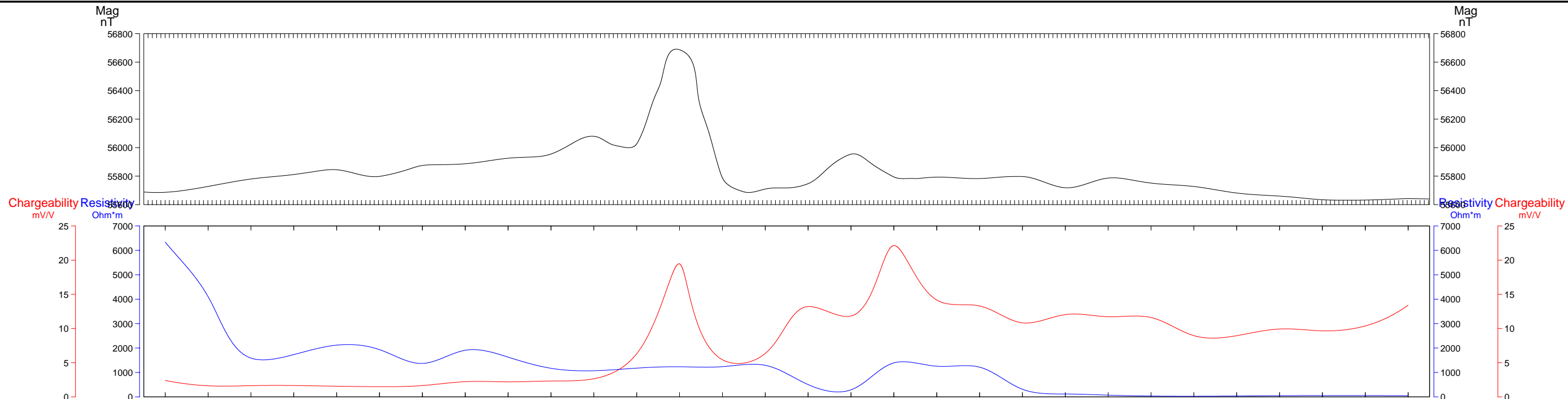
Interval: 2 seconds  
Current: 40-4400 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015



Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-900E





**ATACAMA RESOURCES  
INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

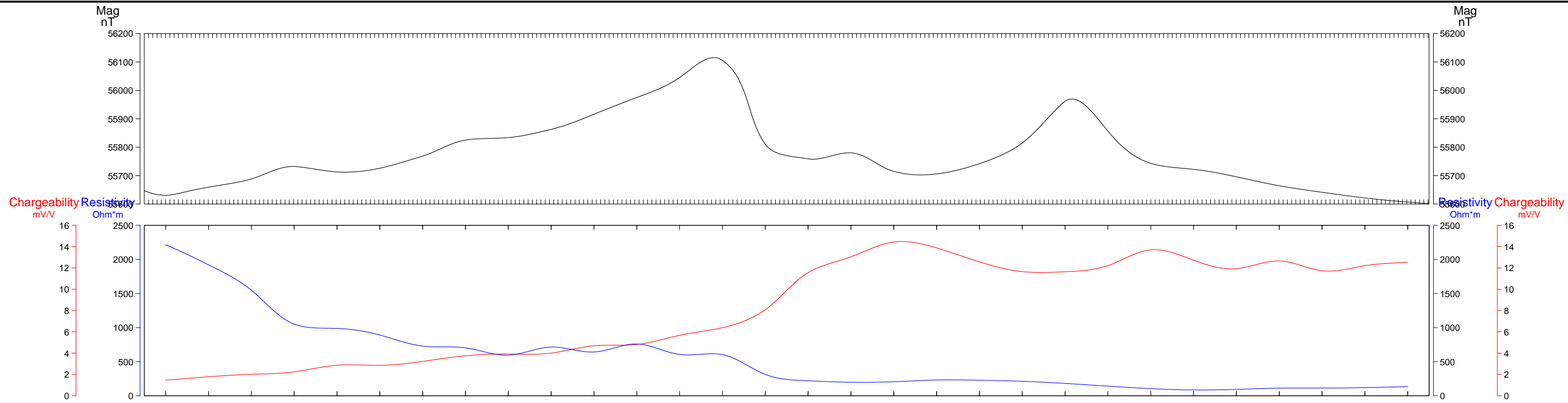
Pole Dipole Combo Induced Polarization Survey

Interval: 2 seconds  
Current: 50-4800 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015

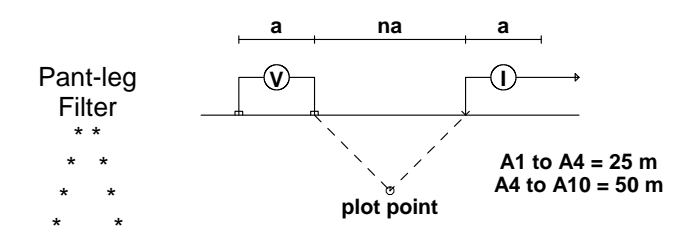


Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-1000E

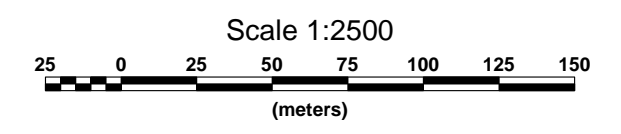
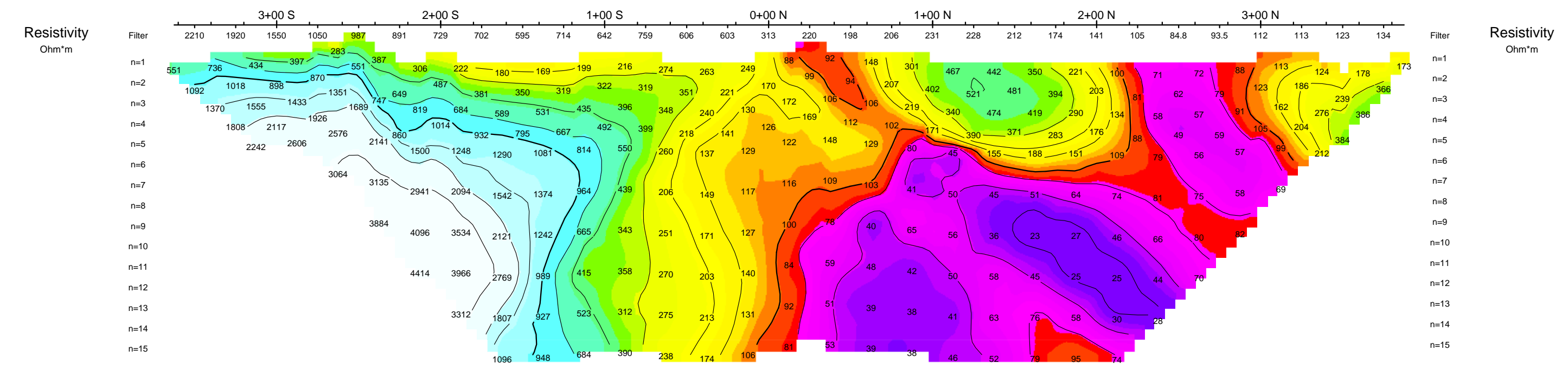
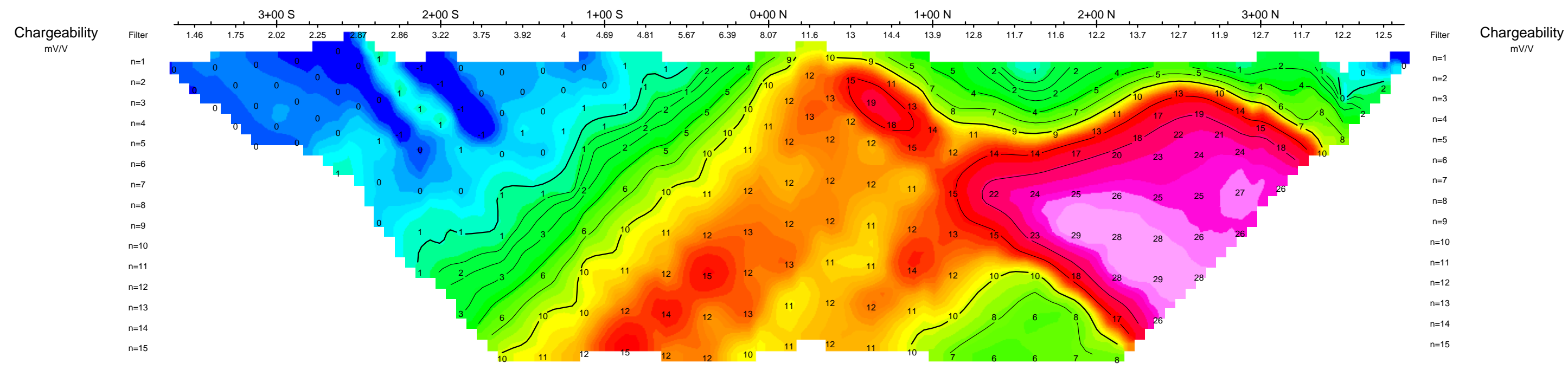


### Pseudo Section Plot 11+00 E

Combo Dipole-Pole Array



A1 to A4 = 25 m  
A4 to A10 = 50 m



**ATACAMA RESOURCES  
INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

Pole Dipole Combo Induced Polarization Survey

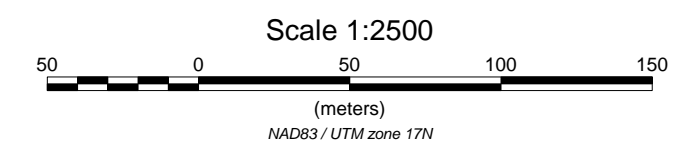
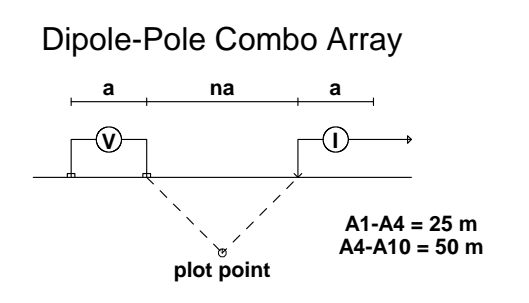
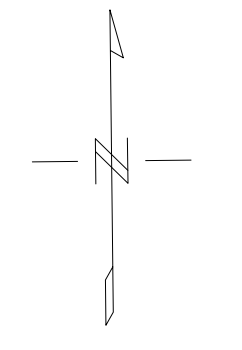
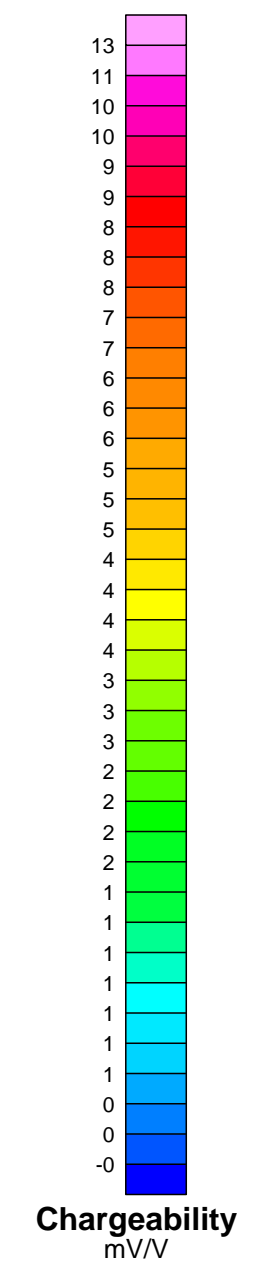
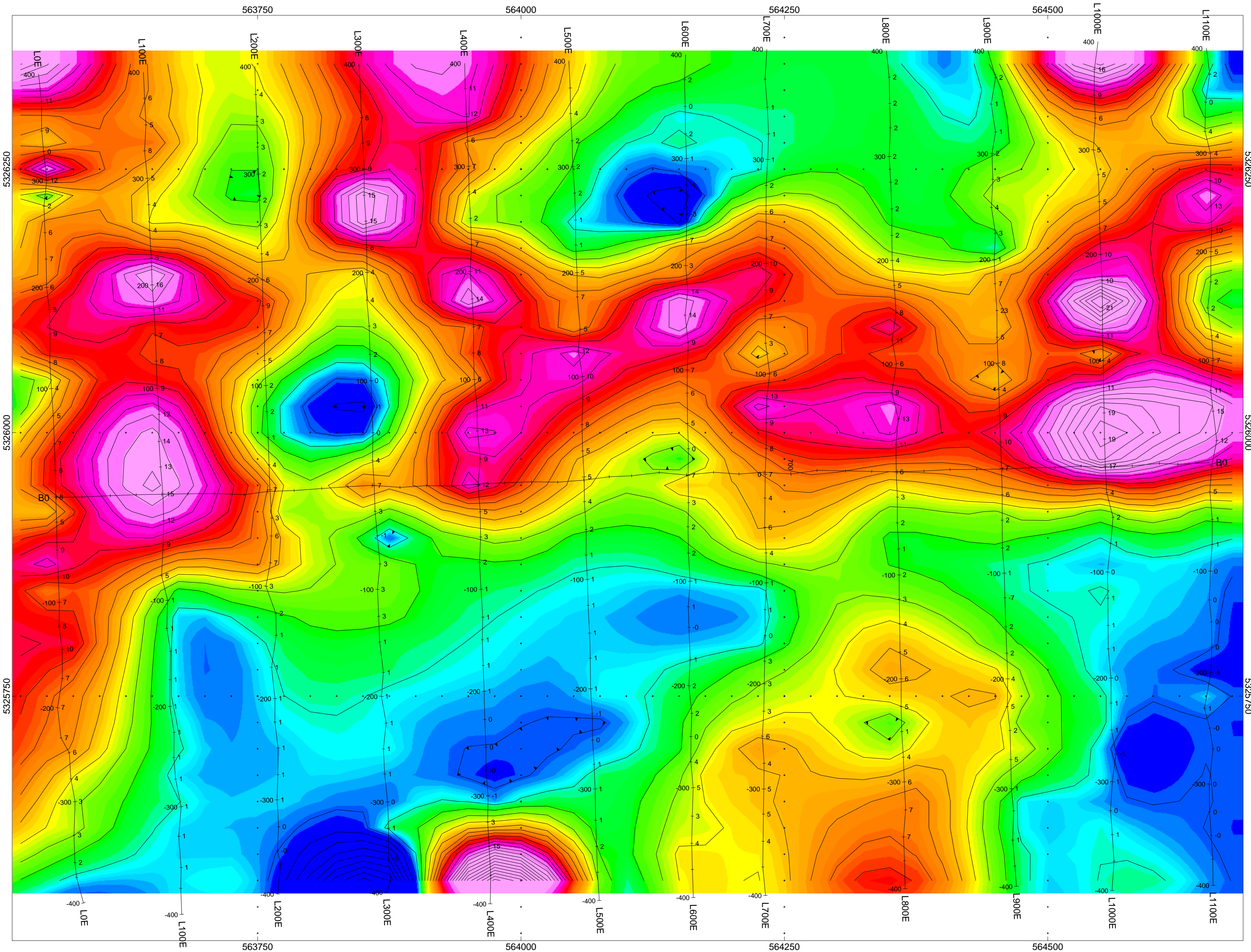
Interval: 2 seconds  
Current: 300-4700 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Processed by:  
C Jason Ploeger, B.Sc.  
Map Drawn By:  
C Jason Ploeger, B.Sc.  
August 2015



Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-1100E





**ATACAMA RESOURCES INTERNATIONAL INC.**

**Allsopp Huston Grid**  
**Eby and Otto Township, Ontario**

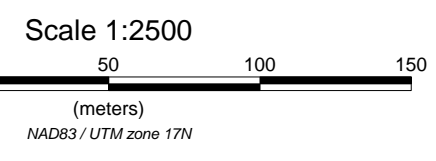
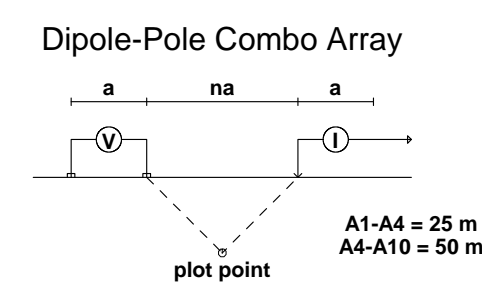
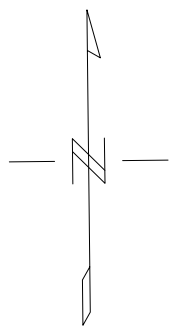
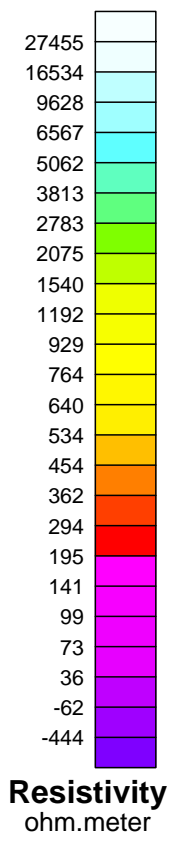
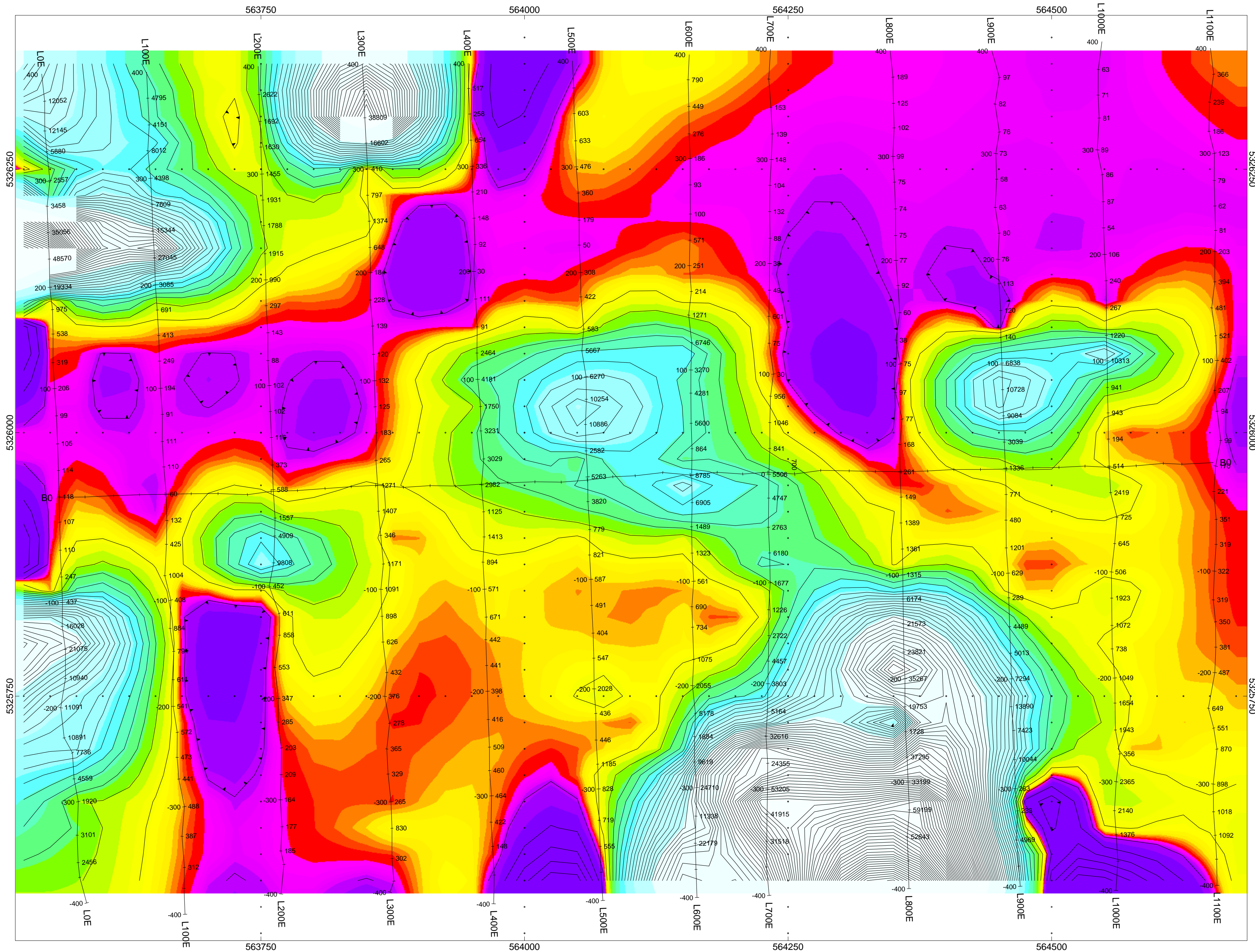
Pole Dipole Combo Induced Polarization Survey  
 Chargeability N=2 Data

Interval: 2 seconds  
 Current: 30-4800 mA  
 Rx: Iris Elrec Pro  
 Tx: GDD II (5kW Time Domain)

Receiver Operated By: Bruce Lavalley  
 Processed by: Jason Ploeger  
 Map Drawn By: C Jason Ploeger, P.Geo  
 August 2015







**ATACAMA RESOURCES INTERNATIONAL INC.**

**Allsopp Huston Grid**  
**Eby and Otto Township, Ontario**

Pole Dipole Combo Induced Polarization Survey  
Resistivity N=2 Data

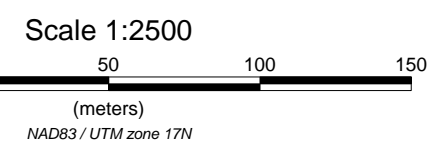
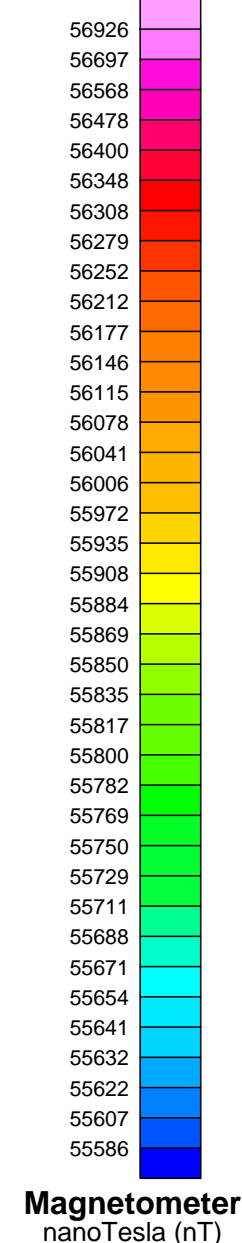
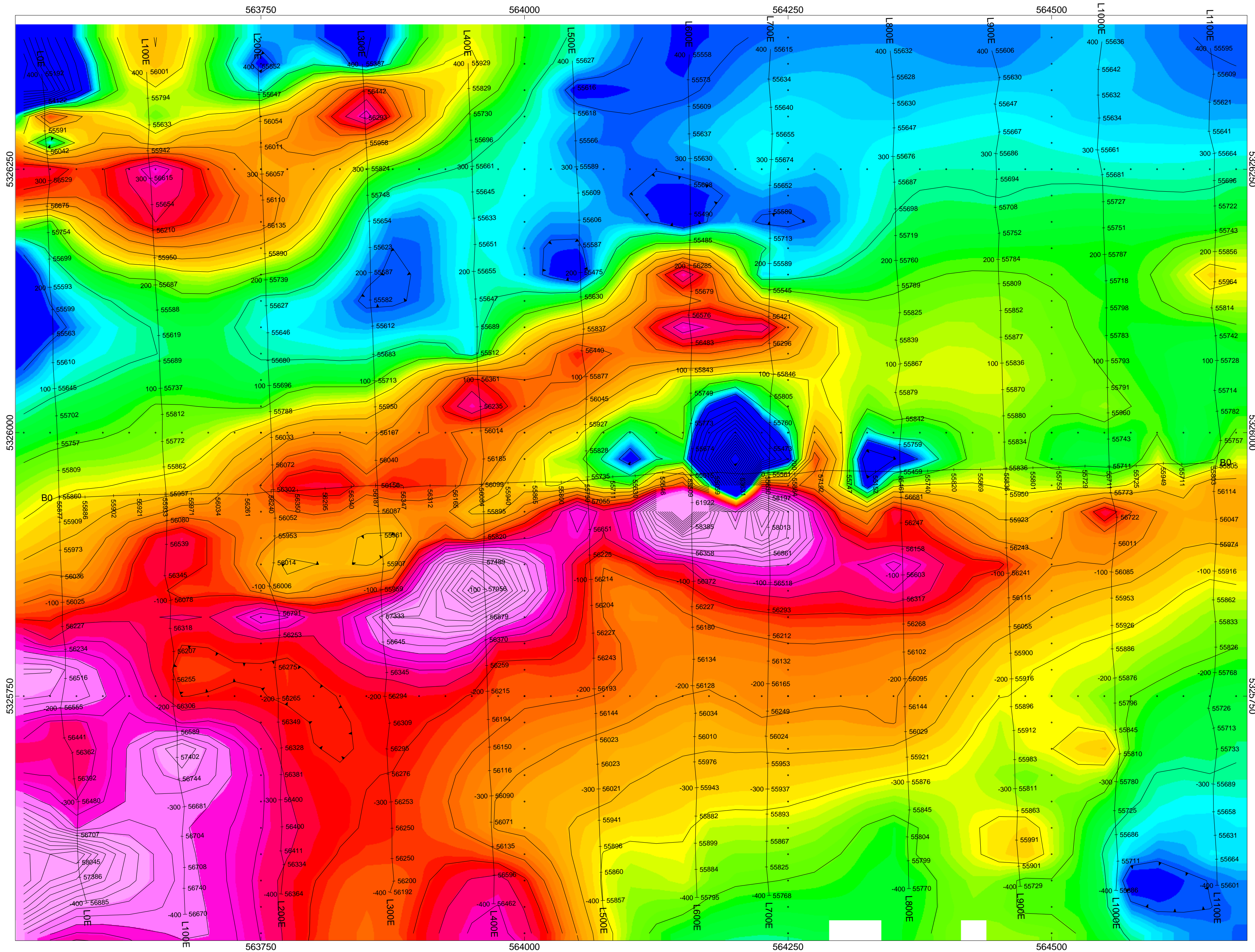
Interval: 2 seconds  
Current: 30-4800 mA  
Rx: Iris Elrec Pro  
Tx: GDD II (5kW Time Domain)

Receiver Operated By: Bruce Lavalley  
Processed by: Jason Ploeger  
Map Drawn By: C Jason Ploeger, P. Geo  
August 2015

**CXS**  
CANADIAN EXPLORATION SERVICES LTD

Drawing : ATACAMA-ALLSOPP HUSTON-IP-COMBO-RES-N2





**ATACAMA RESOURCES INTERNATIONAL INC.**

**Allsopp Huston Grid  
Eby and Otto Township, Ontario**

TOTAL FIELD MAGNETIC CONTOURED PLAN MAP  
Base Station Corrected

Posting Level: 0nT  
Field Inclination/Declination: 74degN/12degW  
Station Separation: Walkmag 1 second interval  
Total Field Magnetic Contours: 100nT

GSM-19 OVERHAUSER MAGNETOMETER/VLF v7

Receiver Operated By: Bruce Lavalley  
and Claudia Moraga  
Processed by: Jason Ploeger  
Map Drawn By: C Jason Ploeger, P.Geo  
August 2015

**CXS**  
CANADIAN EXPLORATION SERVICES LTD

Drawing : ATACAMA-ALLSOPP HUSTON-MAG-CONT



Date / Time of Issue: Thu Aug 20 11:39:01 EDT 2015

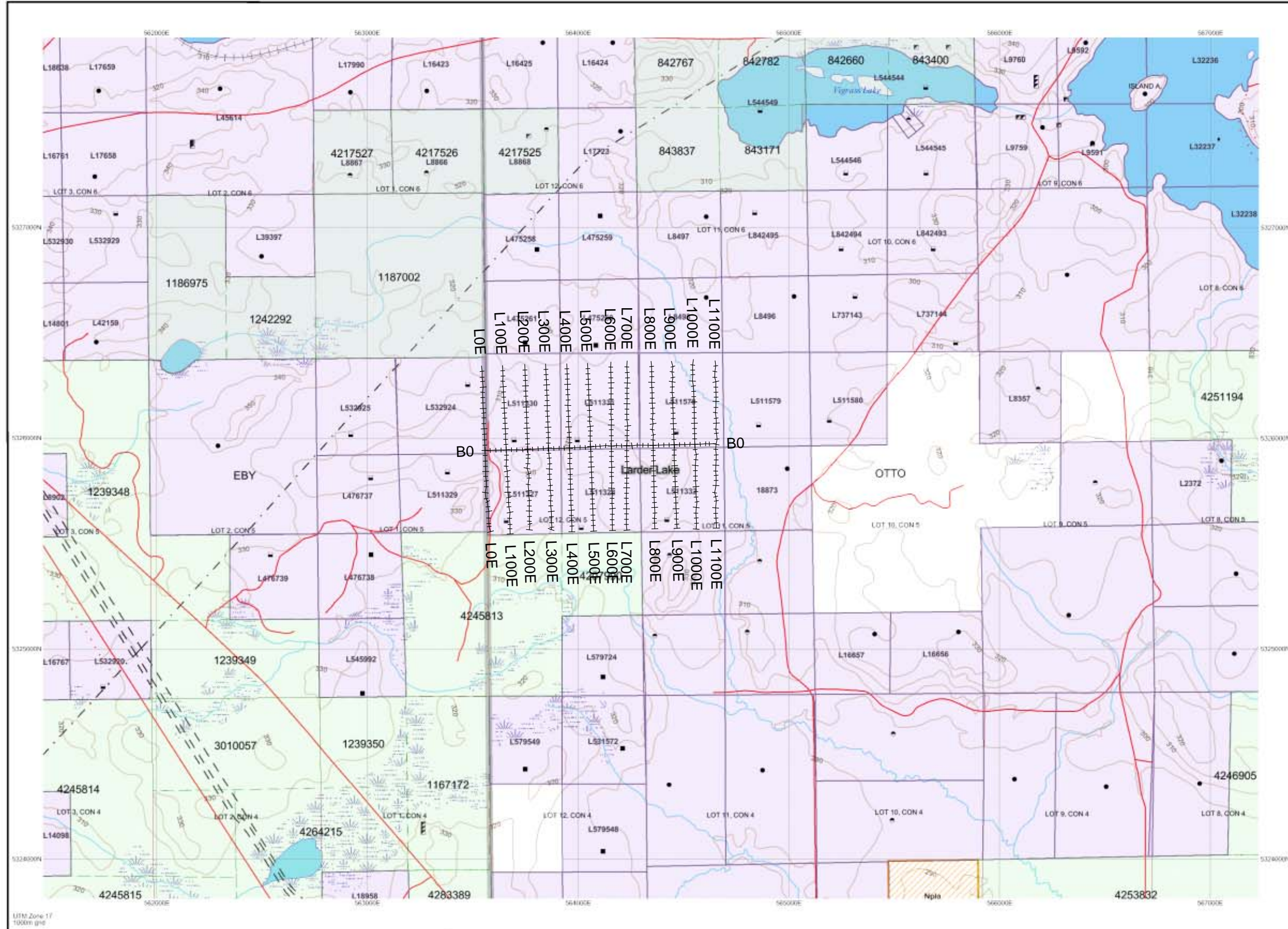
TOWNSHIP / AREA  
OTTO

PLAN  
M-0379

ADMINISTRATIVE DISTRICTS / DIVISIONS

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

Larder Lake  
TIMISKAMING  
KIRKLAND LAKE



TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession Lot
- Provincial Park
- Indian Reserve
- C.R. #1 & File
- Contour
- Mine Shaft
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

- Freehold Patent
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold Patent
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- License of Occupation
  - Uses Not Specified
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Land Use Permit
- Order In Council (Not open for staking)
- Water Power Lease Agreement
- Mining Claim
- First Only Mining Claims

LAB	MAISONVILLE	BERNHARDT	MOARSETTE
BOMFAS	GREENFELL	TECH	LEBEL
BURT	EBY	OTTO	BOSTON
ORRIS	BLAIN	MARQUIS	PACAUD
DAVIDSON	SHARPE	SIXARD	CHAMBERLAIN

- LAND TENURE WITHDRAWALS**
- Area Withdrawn from Disposition
  - Mining Act Withdrawal Types
    - Surface And Mining Rights Withdrawal
    - Surface Rights Only Withdrawal
    - Mining Rights Only Withdrawal
    - Order In Council Withdrawal Types
    - Surface And Mining Rights Withdrawal
    - Surface Rights Only Withdrawal
    - Mining Rights Only Withdrawal
  - IMPORTANT NOTICES



IMPORTANT NOTICES

Areas under which special regulation, limitations or conditions exist that affect normal prospecting, staking and mineral development activities.

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

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

General Information and Limitations  
 Contact Information:  
 Provincial Mining Recorders' Office  
 Water Green Miller Centre 933 Ramsey Lake Road  
 Sudbury ON P3E 6B5  
 Home Page: [www.mndm.gov.on.ca/MNDM/MINES/LANDS/landsmpg.htm](http://www.mndm.gov.on.ca/MNDM/MINES/LANDS/landsmpg.htm)

Toll Free: 1 (888) 415-9845 ext 534  
 Tel: 1 (888) 415-9845 ext 534  
 Fax: 1 (877) 679-1444  
 Projection: UTM (6 degree)  
 Topographic Data Source: Land Information Ontario  
 Mining Land Tenure Source: Provincial Mining Recorders' Office

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