INDUCED POLARIZATION / RESISTIVITY SURVEYS AT THE ELDORADO PROPERTY, YUKON TERRITORY

for: **KLONDIKE STAR MINERAL CORP.**
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Work Performed: August 22 – September 25, 2006
Location: 63° 53' N 139° 14' W
NTS: 1150/14
Mining District: Dawson
Date: Feb 20 2007

SUMMARY

An induced polarization / resistivity survey (IP) was conducted at the Eldorado property (Lone Star Project) for Klondike Star Mineral Corp. Three grid were surveyed in 2006: the Buckland grid (12.025 line-km), the Lone Star East grid (11.1 line-km), and the Lone Star West grid (14.475 line-km) between August 22 to September 25, 2006. An IP data set from a 1987 survey which overlapped all three 2006 grids was digitised and is included in this report.

The 1987 survey, centered on the Lone Star mine and workings, and detected a 10 mV/V chargeability anomaly. This is adjacent to a prominent NNW conductive trend structure.

Several ENE trending conductive features were identified on the Buckland grid, which are interpreted to be the Buckland Shear Zone. Associated chargeability highs present favorable targets.

A band of slightly elevated chargeability through the Lone Star East grid may represent stratabound mineralization and extensive elevated chargeability was identified on the north east part of the grid. A favorable target is at the intersection of two conductivity trends coincident with elevated chargeability.

TABLE OF CONTENTS

LIST OF FIGURES

1.0 INTRODUCTION

An induced polarization / resistivity (IP) survey was conducted at the Eldorado Property (Lone Star Project) for Klondike Star Mineral Corporation. The survey was performed on a three grids; the Buckland grid (12.025 line-km), the Lone Star East grid (11.1 line-km), and the Lone Star West grid (14.475 line-km). An expanding pole-dipole array geometry was used for the survey with a 25 metre dipole spacing (L850W on the Lone Star West grid was surveyed with both 25 and 50 metre dipoles). The work was conducted between August 22 and September 25, 2006.

The entire project area is large, comprising 1,056 mineral claims on map sheets 115O/14, 115O/10, 115O/15 and 116B/03, but the 2006 IP survey was conducted on the main contiguous claim blocks on NTS sheet 115O/14. The IP survey covered the Lone Star Zone (Lone Star East and Lone Star West grids) and the Buckland Shear Zone (Buckland grid). In addition, data from a 1987 IP survey, conducted by Peter E. Walcott & Associates Ltd. and central to the three 2006 grids, were digitized and are presented in this report. The 1987 grid covered the central Lone Star Zone including the historic Lone Star mine which operated from 1912 to 1914. All three 2006 surveys overlapped to some extent the 1987 survey.

2.0 LOCATION AND ACCESS

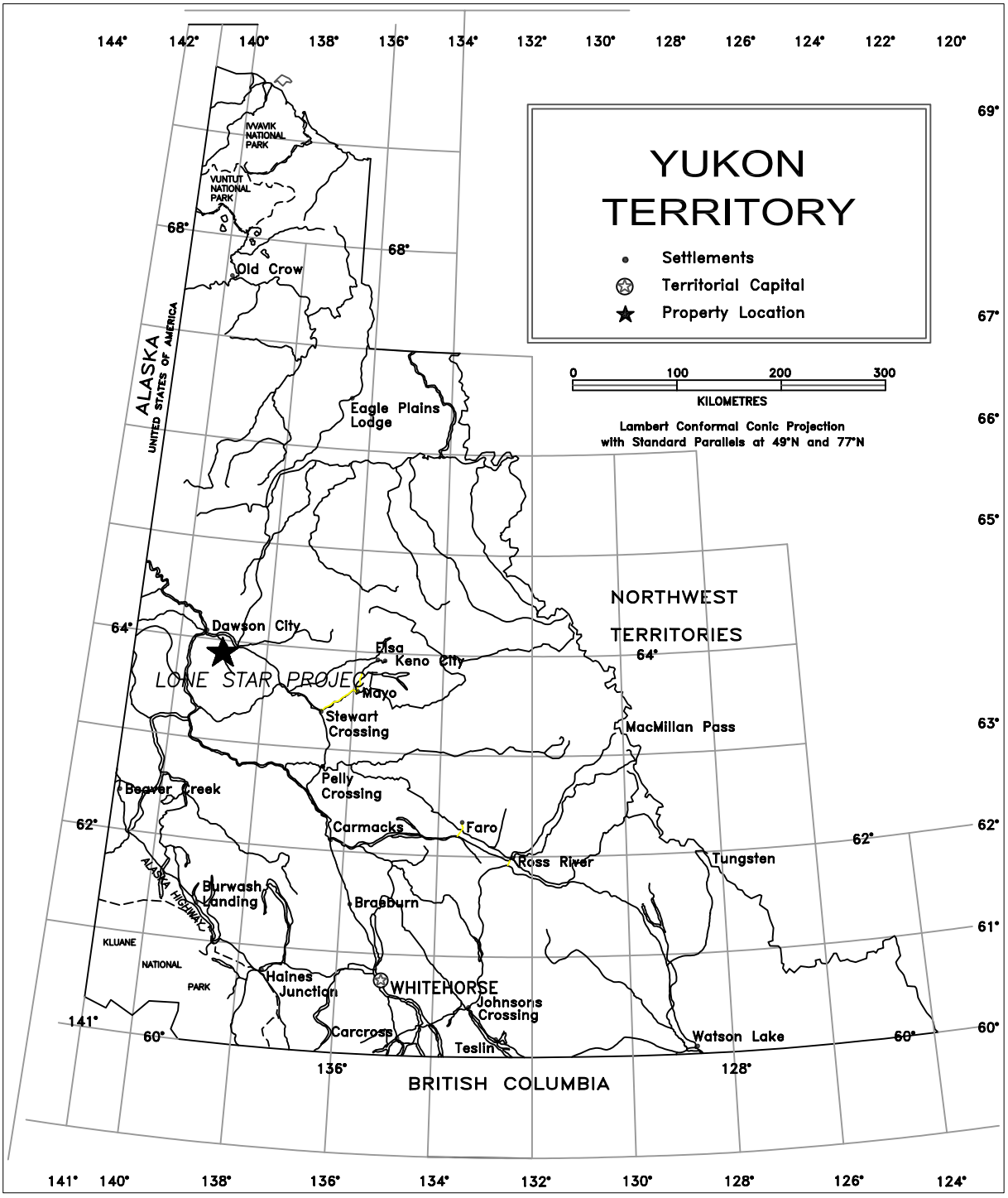
The Lone Star Project is located between Eldorado and Upper Bonanza Creeks in the Klondike gold district near to Dawson City, Yukon Territory (Figure 1). A map of the three grids surveyed in 2006 and the 1987 digitized lines with claim boundaries is shown in Figure 2.

Due to the long history of mining is the area, there is excellent road and ATV access to and within all three grids surveyed in 2006. The IP crew stayed at the Klondike Star camp on the property by Eldorado Creek.

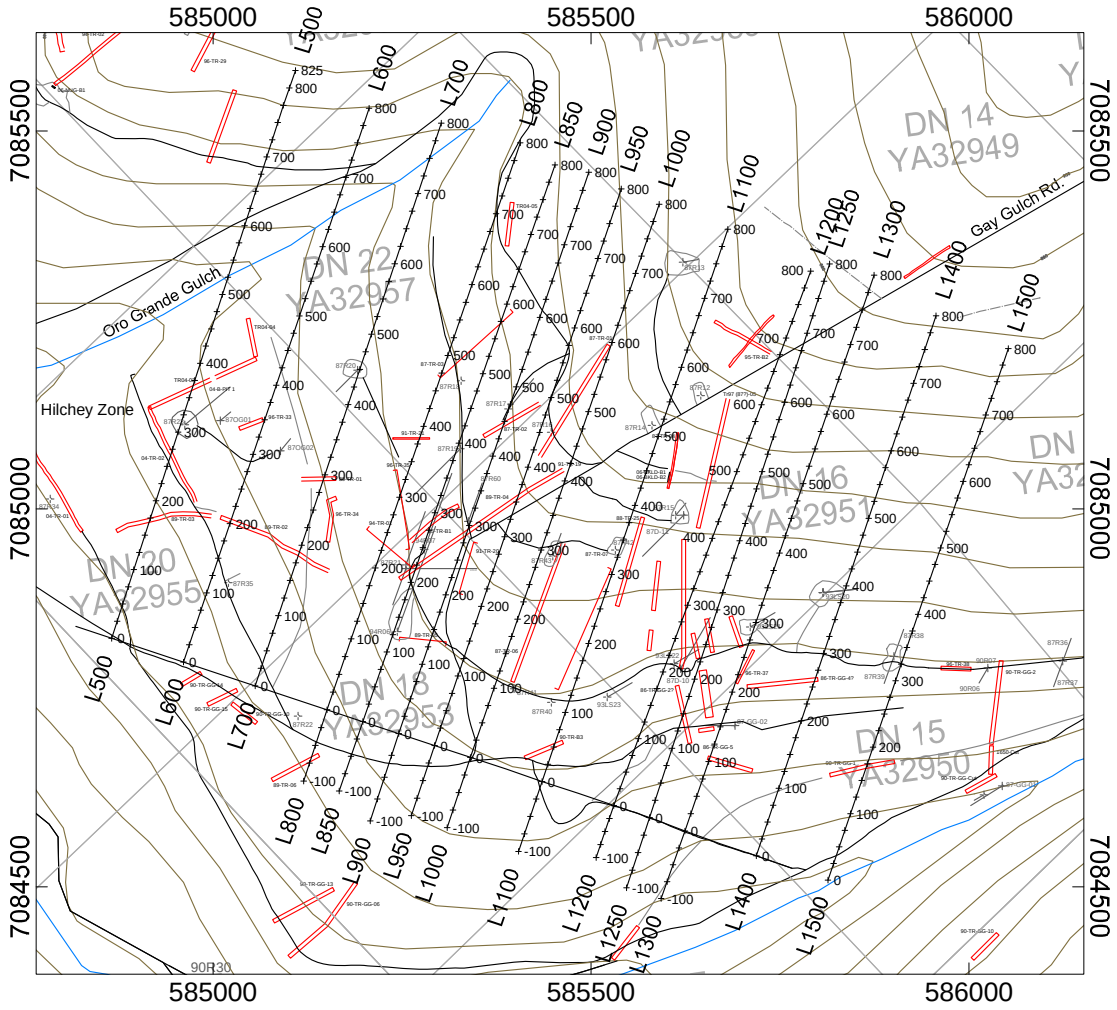
3.0 GRIDS

The survey grids are shown in Figure 3a (Buckland), 3b (Lone Star East), 3c (Lone Star West) and 3d (portion of Walcott 1987 IP survey digitized and included in this report). The grid dimensions and center coordinates are shown below:

Grid	Center UTM Easting	Center UTM Northing	Number of lines	Line length	Line spacing
Buckland	585500	7085000	14; Lines	800 m –	100 m with 50 m



Klondike Star Mineral Corp.	LONE STAR PROJECT	
PROPERTY LOCATION MAP	MINING DISTRICT: DAWSON	
	SCALE 1: 6,000,000	NTS: N/A
	DATUM: N/A	DRAWN BY: DH
AURORA GEOSCIENCES LTD.	DATE: 20 Feb 2007	FIGURE: 1



Scale 1:10000

100 0 100 200

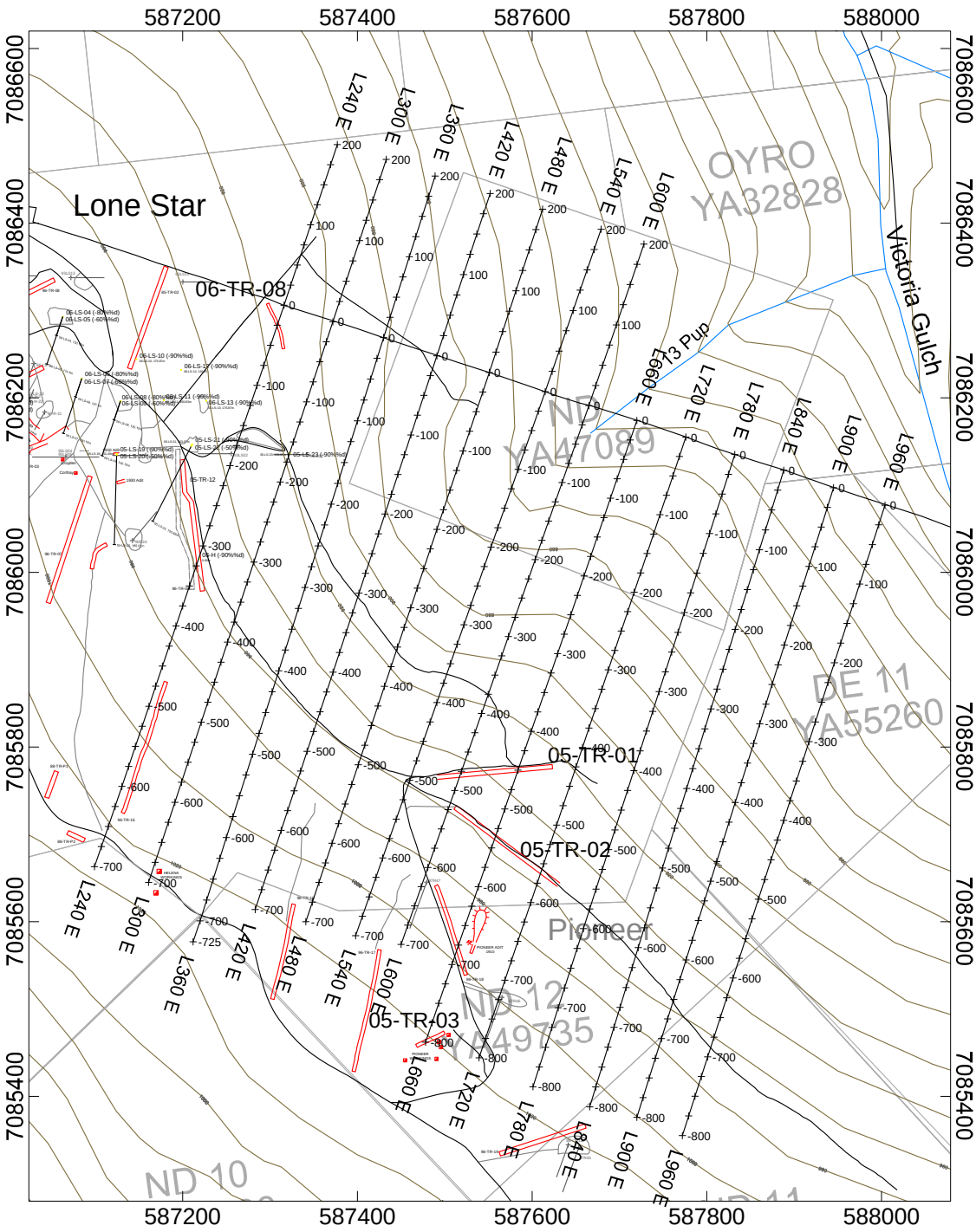
(metres)

NAD83 / UTM zone 7N

Klondike Star Mineral Corp.

Lone Star Project
Buckland IP Grid
Location Map

Figure 3a
February 19, 2007



Scale 1:7500

100 0 100

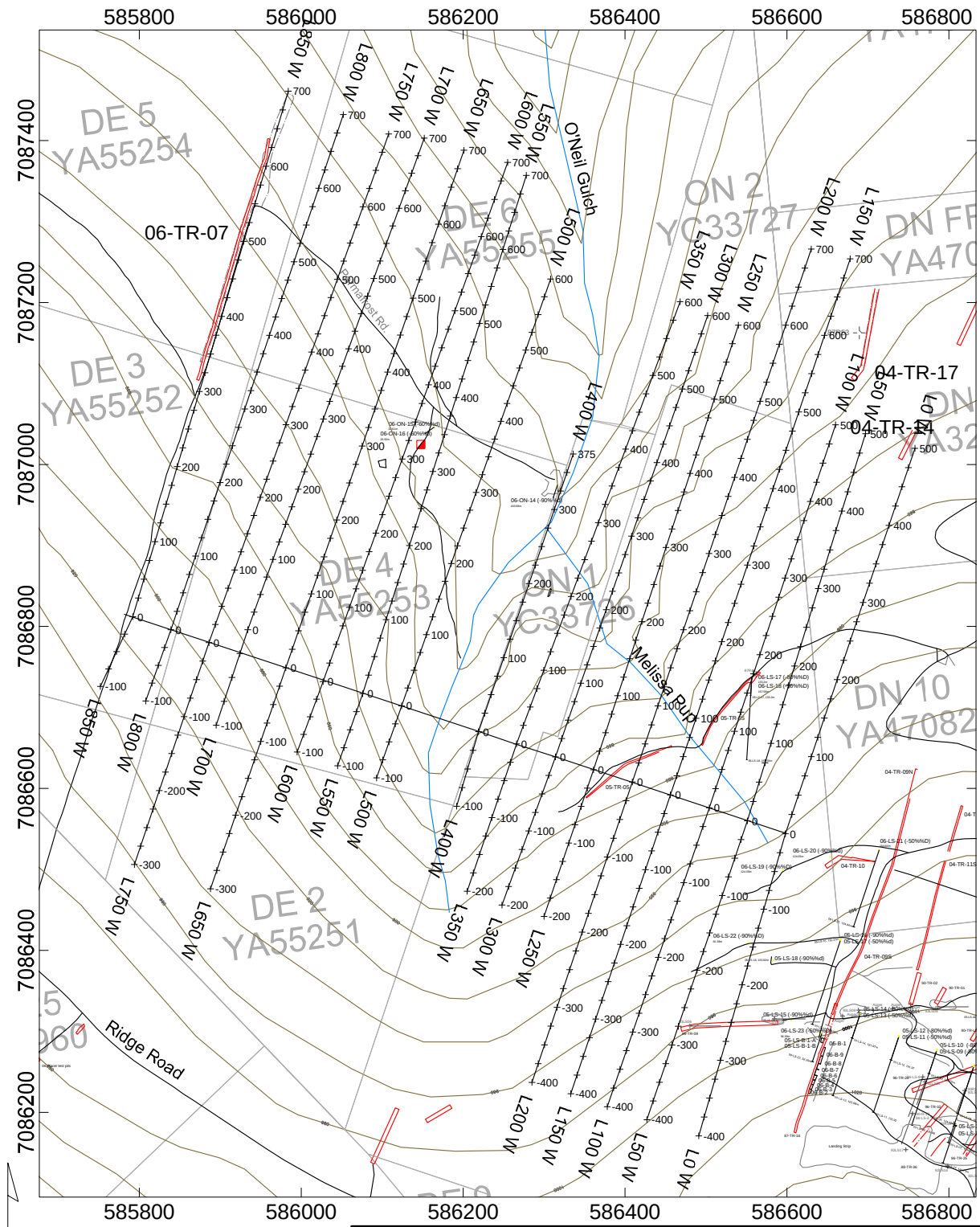
(metres)

NAD83 / UTM zone 7N

Klondike Star Mineral Corp.

Lone Star Project
Lone Star East IP Grid
Location Map

Figure 3b
February 16, 2007



Scale 1:7500

100 0 100

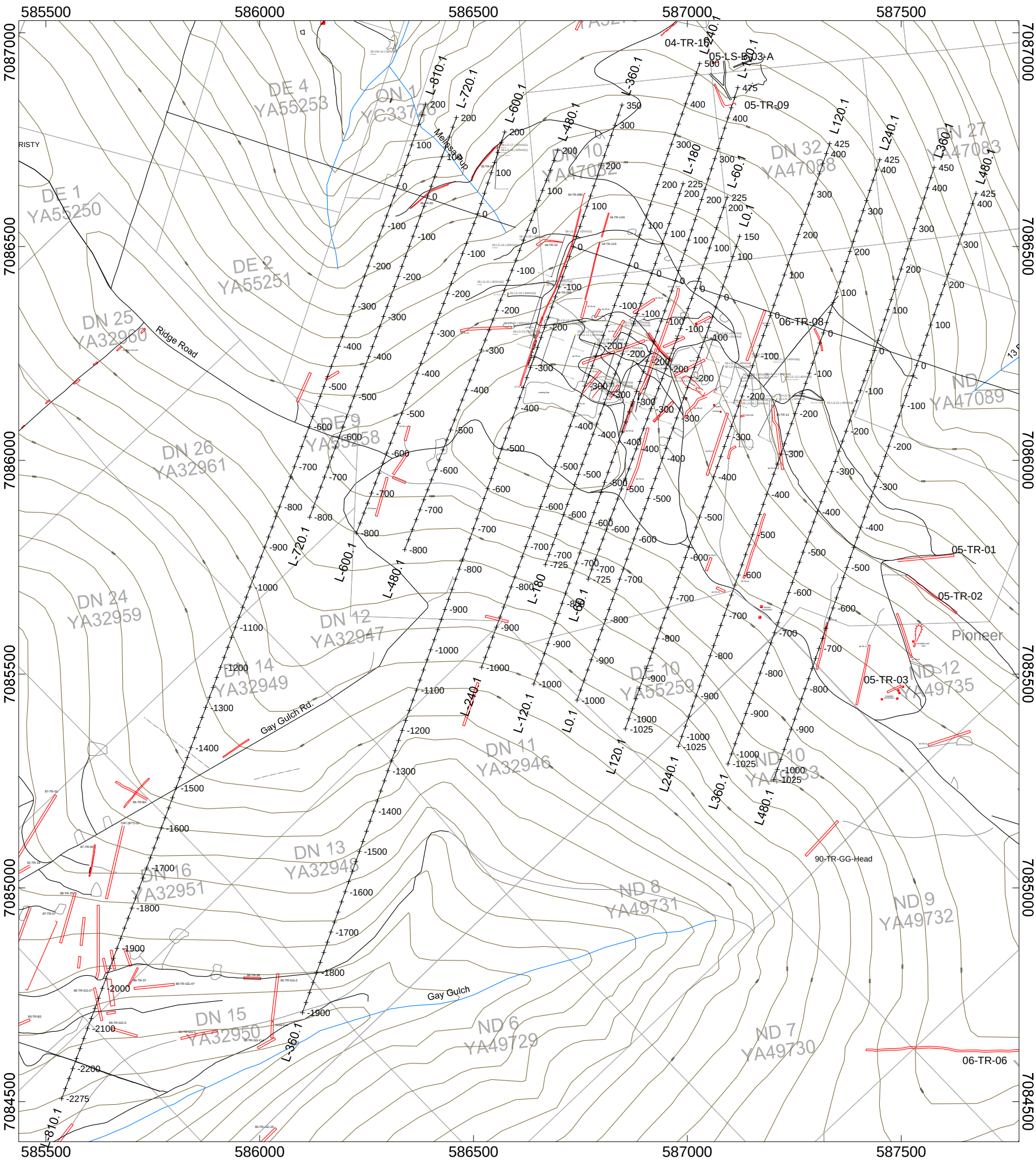
(metres)

NAD83 / UTM zone 7N

Klondike Star Mineral Corp.

Lone Star Project
Lone Star West IP Grid
Location Map

Figure 3c
February 16, 2007



Scale 1:10000

100 0 100 200 300 400

(metres)

NAD83 / UTM zone 7N

Klondike Star Mineral Corp.

Lone Star Project
1987 Walcott IP Grid
Location Map

Figure 3d
February 19, 2007

Grid	Center UTM Easting	Center UTM Northing	Number of lines	Line length	Line spacing
			500E to 1500E	900 m	infill lines at 850E, 950E and 1250E.
Lone Star East	587550	7085950	13; Lines 240E to 960E	800 m – 1000 m	60 m
Lone Star West	586260	7086815	17; Lines 0 to 850W	475 m – 1100 m	50 m
Walcott 1987 IP Survey	586850	7086090	14; Lines 810.1W to 480.1E	950 m – 2475 m	120 m with 60 m infill lines at 180.1W and 60.1W

All the grids have a baseline azimuth of 108°/288° and the wing lines run 18 degrees east of north. Coordinates are in UTM Zone 7N, NAD83. The Walcott 1987 lines have been renamed with a *.1 suffix to avoid confusion with the 2006 lines. Only the lines that were IP surveyed or were digitized from the 1987 survey are included in the tabulation above. There were 4 more lines (L600E – L960E) that were not digitized in the 1987 survey that twinned the 2006 Lone Star East grid in addition to the three twinned lines which were examined for consistency. All the 50 m infill lines were cut on the Buckland grid but only three of them were surveyed in 2006.

The three 2006 grids were installed and surveyed by Klondike Star Mineral Corporation using Real Time Kinetic (RTK) differential GPS. Typically, GPS control points were taken at the ends of each line and the baseline intersection. Occasionally more control points were surveyed where it was noted that the line was not straight.

The 2006 baseline and lines 240E, 360E and 480E of the Lone Star East grid follow the Walcott 1987 survey lines which were relocated and brushed out for the 2006 survey. Geo-registration of the Walcott 1987 data was done by matching the intersection of L360.1W and the baseline on a scaled image from the 1987 report to a known point. The ends of the lines were then digitized from the map and station locations determined by interpolation. Lines 810.1W and 600.1W from the 1987 survey are coincident with lines 300W and 100W of the Lone Star West grid. The baseline is identical between the 1987 and both 2006 Lone Star grids and therefore the station numbering is consistent. The Walcott 1987 line 810.1W appears to overlap the Buckland grid line 1250E, although this was not checked on the ground. The station numbering is not consistent with the table below illustrating the relationship:

1987 Walcott IP	2006 Buckland grid
1500S on L810.1W	700N on L1250E
1800S on L810.1W	400N on L1250E
2275S on L810.1W	100S on L1250E

4.0 PERSONNEL AND EQUIPMENT

The surveys were conducted by the following personnel:

Andre Lebel	Crew chief	From August 22 to September 25
Dan Shorty	Technician	From August 22 to September 19
Cody Woodman	Technician	From September 19 to September 25
Sebastian Roy	Helper	From August 22 to September 25
Steve Francis	Helper	From August 22 to September 25

The crew was equipped with the following instruments and general equipment:

IP Receiver	Iris Elrec Pro s/n 2315-202353-122
IP Transmitters	GDD TxII 3.6 kW s/n Tx267 Honda 5kVA gas generator
IP Equipment	Repair tools & spare IP parts 6 km 18 gauge wire 25 m IP cables 4 VHF handheld radios VHF base radio Georeels & spools, Speedy winders and spools, stainless steel electrodes
Other	Lap top computer 1 ton truck 2 Non-differential GPS receivers Globalstar satellite phone
Software	Geosoft Oasis 6.0.1 with IP package

5.0 SURVEY SPECIFICATIONS

The surveys were conducted according to the following specifications:

Grid registration: Line ends and baseline intersections, surveyed with RTK-DGPS as supplied by Klondike Star, were used to register the grid to NAD83, UTM Zone 7N coordinates.

IP Array: Expanding pole-dipole. Stationary electrodes were at the north end of each line on the Buckland grid and at the south ends of each line for the Lone Star East and Lone Star West grids.

Dipole spacing: 25 m (all lines), 50m (Lone Star West L850W).

Separations: Six dipoles read from n=1,2, …, 6.

Tx: Time domain with a 50% duty cycle, reversing polarity, 0.125 Hz

Signal sampling: 20 windows, semi-logarithmic sampling over 2 s. Sampling commences 40 ms after shutoff. Sample windows are shown in the table below:

	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Width	40	4(	40	40	40	40	40	80	80	80
Channel	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
Width	80	80	80	80	160	160	160	160	160	160

Parameters readings:

Mi - 20 semi-logarithmically spaced time slice channels
V_p - primary voltage
Sp - self-potential (voltage)
I - current
Rs - electrode resistance
Err - standard deviation of stacked readings

Stacks, repeats: At least 15 stacks were taken at each station. Stations that were noisy (error > 5 mV/V) were repeated several times

6.0 SURVEY NOTES

The survey log in Appendix B describes survey operations including production. The crew mobilized to the Klondike Star camp on the property from Whitehorse on Aug 22, 2006 and started to survey Aug 23 on the Lone Star East grid. Aside from minor problems with moisture from rain, the surveying went well and the crew completed the Lone Star East grid on Aug 31. After starting on Lone Star West on Sept 01, the crew took the weekend off and resumed work on Lone Star West on Sept 04, completing the 100 m lines on Sept 08 and moving onto the Buckland grid between Sept 08 and Sept 12 before returning to the Lone Star West grid on Sept 12 to resume the infill 50 m lines until Sept 17. Line 850 on Lone Star West was surveyed with both 25 and 50 m dipoles. Finally the crew returned to the Buckland grid on Sept 18 and surveyed there until Sept 24, and drove back to Whitehorse on Sept 25. Total production was 38.5 line-km surveyed on 45 lines over 31 survey days for an average production of 1.24 line-km per day,

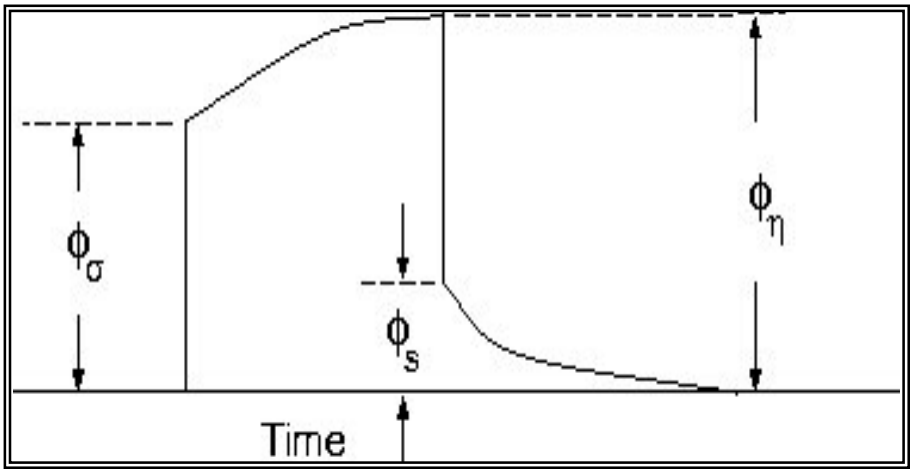
The survey used a modified pole-dipole array where the line commences as a dipole-dipole and then all electrodes are moved except the trailing current electrode as the survey progresses. Therefore the array becomes a pole-dipole by the end of a long line. All electrodes are always kept co-linear to facilitate the correction to the apparent resistivity and to ensure that the assumptions for the 2D inversions are valid.

7.0 IP INVERSION METHOD

The data were inverted using the DCIP2D package developed by the University of British Columbia Geophysical Inversion Facility. The inversion algorithm is described in detail by Oldenburg and Li (1994). A brief description of key features of the algorithm follows.

The IP effect can be described in macroscopic terms. If a time domain signal is put into the ground, as soon as the current is turned on, the voltage immediately rises to a level (ϕ_σ) and thereafter continues to rise to a higher level (ϕ_η). At current shutoff, the voltage immediately falls to a level (ϕ_s) and then slowly decays to zero along a curve similar to that between ϕ_σ and ϕ_η . Apparent chargeability is defined as the "extra"voltage observed:

$$\eta_a = \frac{\phi_\eta - \phi_\sigma}{\phi_\eta} = \frac{\phi_s}{\phi_\eta}$$



The observed DC potentials ϕ_σ are defined by the vector form of Ohms Law:

$$\nabla \cdot (\sigma \nabla \phi_s) = -I\delta(r - r_s)$$

where **r-r$_s$** is the vector to the measurement point, **I** is the current and σ is the conductivity structure of the earth - the unknown quantity in the geophysical problem. The chargeability can be modeled by replacing the conductivity by an equivalent apparent conductivity controlled by the chargeability:

$$\sigma_\eta = \sigma(1 - \eta)$$

Modeling the IP effect then involves running two conductivity models - one with σ and one with σ_η .

The unknown quantity is the distribution of conductivities in the earth. The software models the earth conductivity structure as a series of rectangular cells of varying size and aspect ratio. The grid is finest (most detailed) near the measurement points and much coarser at locations beside or at depth beneath the measurement points. The padding cells are necessary to avoid edge effects in the model. The size and dimensions of the models in no way compensates for the basic limitations on depth of penetration and resolution inherent in the IP/resistivity survey. Thus the effective depth of penetration (0.5 to 1.0 times the maximum dipole separation) is the limit to which the models should be relied upon to accurately reflect true earth conductivities and chargeabilities.

The program calculates the potential across the finite element network using a starting model. Appropriate boundary conditions are applied when calculating the potentials across the network. These include the condition that all current flow is normal to the cell

boundaries and voltages are continuous across the boundaries. The sensitivity of the model to changing the parameters in any cell is calculated as is the misfit between the model results and the actual observed potentials / chargeabilities. The model is then adjusted using the calculated sensitivities of the response to changes in the conductivity of individual cells.

There is no unique solution or model which fits any set of IP / resistivity data. A best-fit model is one which (1) fits the data within the error of the survey and (2) invokes the minimum required degree of complexity to fit the data. For a set of **N** measurements, a global misfit can be defined as:

$$\Psi_d = \sum_{i=1}^{N} \left(W_i(r_i - r_i^{obs})\right)^2$$

where W_i is the weighting factor for the i^{th} measurement (r^{obs}) and r_i is the model response for this measurement. The weighting factor is usually the inverse of the error so that a measurement with high error has a low weighting and vice versa. In a system with random noise, the target misfit is **N**. The algorithm reduces Ψ_d by repeatedly adjusting the conductivities to improve the fit until the global misfit equals the target misfit. At this point, the model fits the data to within the error of the survey.

The second requirement of a successful solution is that the complexity of the final model be minimized. IP measurements are inherent averages, deriving resistivity and chargeabilities from large volumes of the subsurface. It is possible to over-fit data, deriving solutions which over-minimize misfit but which invoke models with detail beyond the resolving power of the measuring arrays. The problem is ill-posed and inherently ambiguous in that an infinite number of models may satisfy the global misfit equals target misfit criterion. If both a simple and complex solution can adequately replicate the field data within the bounds of measurement error, the simple solution is to be preferred.

Starting with a reference model m_0 and weighting functions for x and z (w_x, w_z), define the complexity of the model as Ψ_m where:

$$\psi_m(m, m_0) = \alpha_s \int\int w_s(x,z)(m - m_0)^2 \, dx\, dz + \int\int \left\{ \alpha_x w_x(x,z) \left(\frac{\partial(m - m_0)}{\partial x} \right)^2 + \alpha_z w_z(x,z) \left(\frac{\partial(m - m_0)}{\partial z} \right)^2 \right\} dx\, dz$$

where α_x , α_z and α_s define the relative weight of the model in x, z and fineness. Increasing any of these weighting coefficients increases the importance of that

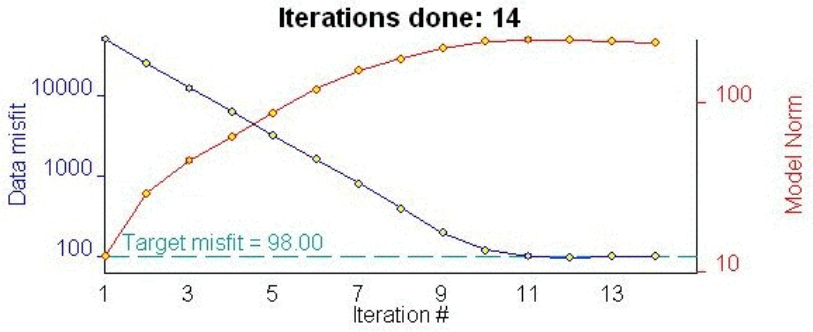
dimension in the final solution. For example, to weight the final solutions towards vertical structures, α_z would be weighted several times more than α_x. To force the model to generate fewer small scale structures, α_s is increased.

The final criteria for a successful solution can then be expressed as:

1. Minimize Ψ_m

2. Subject to the constraint that Ψ_d = N (or very close to it).

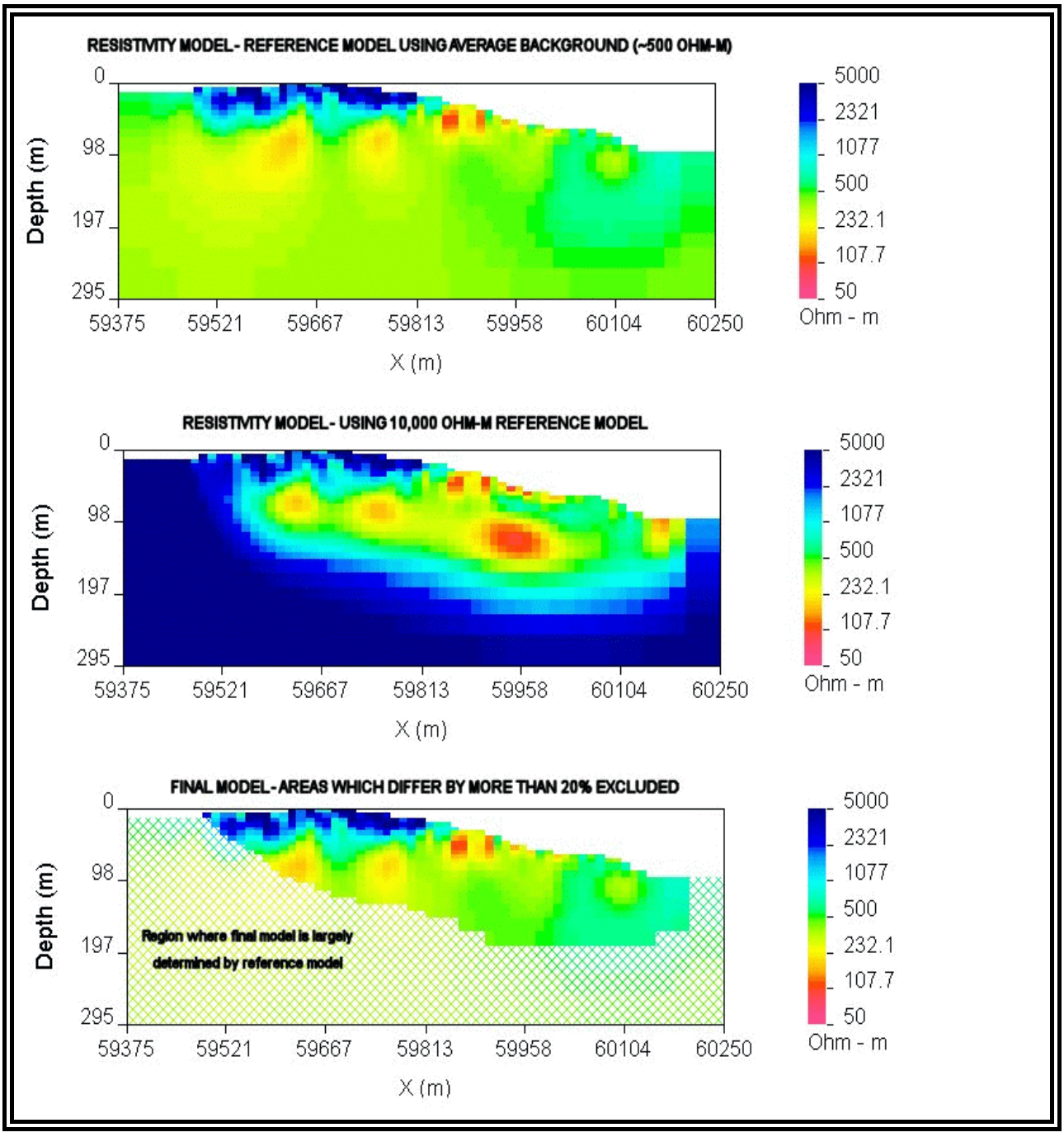
To evaluate a solution, the reader should examine not only the final values but the path the program followed to reach these values. An example of typical convergence curves is shown below:



The black line traces the value of Ψ_d with each iteration and in a good inversion, this will converge to the target misfit (N). The orange curve traces the convergence behavior of Ψ_m . This curve normally starts at a very small value because the reference model is usually set to the initial model and the initial and reference models are very simple. As the inversion proceeds, the solution model becomes increasingly complex as it is adjusted to meet the target misfit. After reaching target misfit, minor adjustments are made to reduce the complexity of the model and the Ψ_m curve stabilizes at some high value.

The field observations often have significant poorly quantified errors and the complexity of the background conductivity response may be such that it is impossible to reduce Ψ_d to N. Instead, Ψ_d can be scaled proportionately by a “chi-factor” ranging up or down from 1.0 (no scaling). Setting a large chi-factor loosens the control that goodness-of-fit exerts on the solution and generally directs the program to use very simple models which tend to smooth out the conductivities and fails to accurately model the fine details in resistivity or chargeability known to exist in the ground. Setting a chi-factor which is too low may prevent convergence to an acceptable solution. Generally, chi is left at 1.0.

A final feature of note in the inversion is the use of initial and reference conductivity and chargeability models in the inversion process. As noted above, the relation for Ψ_m requires a reference model (m_0) against which solutions are compared. This can be an actual 2D model constructed from known geology or a estimate of half space conductivity or chargeability. In addition, the modeling process will start from an initial model which has the same general form. In general, an average half space conductivity and chargeability based on the field values is the best model to start from and this is the default model for both inversions if none other is specified. This will ensure that Ψ_m converges to a value which is not too large. The initial and reference models can be used to estimate the depth of investigation. If two inversions are performed with very different reference models, there will be regions in the final models which will be the same in both inversion and peripheral regions where the final models will resemble the reference models. An example is shown below:


RESISTIVITY MODEL - REFERENCE MODEL USING AVERAGE BACKGROUND (~500 OHM-M)
Depth (m)
0
98
197
295
59375
59521
59667
59813
59958
60104
60250
X (m)
5000
2321
1077
500
232.1
107.7
50
Ohm - m
RESISTIVITY MODEL - USING 10,000 OHM-M REFERENCE MODEL
Depth (m)
0
98
197
295
59375
59521
59667
59813
59958
60104
60250
X (m)
5000
2321
1077
500
232.1
107.7
50
Ohm - m
FINAL MODEL - AREAS WHICH DIFFER BY MORE THAN 20% EXCLUDED
Depth (m)
0
98
197
295
Region where final model is largely determined by reference model
59375
59521
59667
59813
59958
60104
60250
X (m)
5000
2321
1077
500
232.1
107.7
50
Ohm - m

8.0 DATA PROCESSING

The following procedures were used to prepare and invert the induced polarization and resistivity data:

1. Data review. All data were dumped daily and imported into the Geosoft Oasis Montaj IP package. All readings were examined; outliers and data with relatively large errors were thrown out, the rest were averaged to produce a single reading for each station and n-separation. Where there were repeat readings, a weighted average was used to bias readings with higher stacks and lower standard deviations. The averages were calculated as follows:

$$AverageV = \left(\sum_i S_i V_i / Err_i\right) / \left(\sum_i S_i / Err_i\right)$$

$$AverageErr = \left(\sum_i S_i\right) / \left(\sum_i S_i / Err_i\right)$$

where *S* represents the number of stacks, *V* is the value to be averaged and *Err* is the standard deviation of the reading. The standard deviation of voltage measurements were taken to be equal to 1 as this value is not reported by the instrument. If the data were too noisy and were not repeatable, no final data were included in the final data set. Typically data quality was good throughout the survey.

Data from the 1987 Walcott IP survey were digitized from the pseudosections and imported into the Geosoft Oasis Montaj IP package.

2. *Registration*. GPS points were provided by Klondike Star personnel and coordinates for the stations determined by linear interpolation between GPS points. All UTM coordinates are in NAD83 Zone 7N. The topography was extracted from a digital elevation model equivalent to NTS 1:50,000 maps.

A scaled image of the 1987 Walcott IP survey was matched and rotated to a known point and line. The baseline intersections and ends of lines were then digitised. Station locations were determined by linear interpolation between these measured points.

3. *Apparent resistivity calculation.* The apparent resistivity was corrected for the effect of the proximal stationary current electrode in the modified pole-dipole geometry array used for the 2006 surveys.

4. Data formatting. The apparent chargeability, resistivity (in normalized voltage over current) and topographic data were formatted for entry into the 2D UBC inversion program.

5. Resistivity modelling. For each line, errors in the apparent conductance were assigned to the data. There is no means of directly quantifying these errors because neither the transmitter nor receiver records the error in the current or voltage. Errors were assumed to be 0.001 + 5% S/m except lines 480E, 120E, 0, 60W , 120W and 360W from the 1987 Walcott data where the errors were assumed to be 0.003 + 5% S/m, Following error assignment, the data were inverted and where high topographic relief dictated, a deep mesh was constructed. Default initial and reference models based on an average of the apparent resistivity were used. After the default run, the data were inverted a second time using initial and reference models as detailed below under DOI (depth of investigation) model. These half-space models are a much higher value (or lower) than the average in the survey area. The purpose of this second run is to generate a model with a background resistivity greatly different than the average values used in the default run. After the second run, the two models were compared and the lower region in the default model which differed by a factor more than the DOI cut off were replaced by a hatching pattern on the default run. In these hatched regions, the final model is not sensitive to the field data and there is no reliable subsurface information. The Chi factor was adjusted to ensure convergence and an appropriate level of structure to the model.

Resistivity inversion parameters

Line	Chi Factor	DOI Model (Ohm-m)	DOI Cut-off	Notes
Buckland grid				
L500E	1	10000	0.1	
L600E	1	10000	0.1	
L700E	1	10000	0.1	
L800E	3	10000	0.1	
L850E	2	10000	0.1	
L900E	1	10000	0.1	
L950E	1	10000	0.1	
L1000E	1	10000	0.1	
L1100E	3	10000	0.4	
L1200E	1	10000	0.1	
L1250E	1	10000	0.1	
L1300E	1	10000	0.1	
L1400E	1	10000	0.1	
L1500E	1	10000	0.1	
Lone Star West grid				
L0W	0.5	100000	0.1	
L50W	1	100000	0.1	

Line	Chi Factor	DOI Model (Ohm-m)	DOI Cut-off	Notes
L100W	0.8	100000	0.1	Non default weighting coefficients of as = 0.01, az = 1 and ax = 1 were used
L150W	0.3	100000	0.1	Non default weighting coefficients of as = 0.01, az = 1 and ax = 1 were used
L200W	0.5	100000	0.2	
L250W	1	100000	0.1	
L300W	1.5	100000	0.1	
L350W	1.5	100000	0.2	
L400W	0.3	100000	0.1	
L500W	1	100000	0.1	
L550W	1	100000	0.1	
L600W	2.5	100000	0.1	
L650W	1	100000	0.1	
L700W	2	100000	0.1	
L750W	1	100000	0.1	
L800W	1.55	100000	0.1	
L850W	1	100000	0.1	
L850W-50	3.5	100000	0.2	
Lone Star East grid				
L240E	1	10000	0.1	
L300E	1	10000	0.1	
L360E	1	10000	0.1	
L420E	1	10000	0.1	
L480E	1	10000	0.3	
L540E	1.5	10000	0.4	
L600E	1	10000	0.1	
L660E	3	10000	0.1	
L720E	1	10000	0.1	
L780E	1	10000	0.3	
L840E	1	10000	0.1	
L900E	1.5	10000	0.1	
L960E	1	10000	0.1	
Walcott 1987 IP grid				
L810.1W	1.85	50000	0.3	
L720.1W	0.1	50000	0.3	
L600.1W	1	20000	0.2	
L480.1W	1.2	50000	0.3	

Line	Chi Factor	DOI Model (Ohm-m)	DOI Cut-off	Notes
L360.1W	0.3	50000	0.3	
L240.1W	0.4	20000	0.3	
L180.1W	0.9	20000	0.3	
L120.1W	0.9	20000	0.3	
L60.1W	0.3	20000	0.2	
L0.1	0.3	20000	0.1	
L120.1E	0.3	20000	0.2	
L240.1E	1	10000	0.1	
L360.1E	1.55	50000	0.4	
L480.1E	1.2	20000	0.3	

5. Chargeability modelling. For each datum, the observed standard deviation of chargeability was used as a measure of error for apparent chargeability. To avoid zero errors, a minimum of 0.5 mV/V was added to each error measurement. The IP data were first inverted using default values (initial and reference model of a 0 mV/V half-space), with the same mesh as the resistivity modelling, using the default recovered resistivity model. After the first run, the data were inverted a second time using initial and reference models which incorporated background chargeabilities as detailed below under DOI model (a much higher value than the average in the survey area). The two models were then compared and regions in the default model which varied more than the DOI cut off were replaced by a hatched pattern in the final models. In these hatched regions, the final model is not sensitive to the field data and there is no reliable subsurface information. The Chi factor was adjusted to ensure convergence and an appropriate level of structure to the model.

Chargeability inversion parameters

Line	Chi Factor	DOI Model (mV/V)	DOI Cut-off	Notes
Buckland grid				
L500	17.5	100	0.1	Poor fit to high chargeabilities.
L600	5	100	0.2	Poor fit at n = 5 and 6 to the high chargeabilities around Stn's 400 to 500

Line	Chi Factor	DOI Model (mV/V)	DOI Cut-off	Notes
L700	14	100	0.1	Non default weighting coefficients of as= 1, ax= 0.00001 and az=1 were used. Poor fit to high chargeabilities, especially to the north.
L800	45	100	0.1	Very poor fit to the high chargeabilities throughout the section. Model severely underestimated chargeability of line.
L850	1	100	0.1	
L900	1	100	0.1	
L950	2	100	0.1	Poor fit to moderate-high chargeabilities
L1000	9	100	0.1	
L1100	12	100	0.1	Moderate fit to high chargeability at station 500N
L1200	2.1	100	0.1	Poor fit to high chargeability in middle of line.
L1250	26	100	0.1	Poor fit to high chargeability in middle of line.
L1300	1	100	0.1	
L1400	1	100	0.1	Non default weighting coefficients of as= 0.01, ax= 1 and az=1 were used.
L1500	2	100	0.1	
Lone Star West grid				
L0	1.5	100	0.1	
L50	62	100	0.1	Non default weighting coefficients of as = 0.0005, ax=1,and az=1 were used. Moderate fit to high chargeabilities on n=5&6.
L100	1	100	0.1	
L150	6.5	100	0.1	Moderate fit to high chargeabilities.
L200	5.5	100	0.1	Moderate fit to high chargeabilities.
L250	4	100	0.1	Moderate fit to high chargeabilities.

Line	Chi Factor	DOI Model (mV/V)	DOI Cut-off	Notes
L300	34.5	100	0.1	Very poor fit at n = 5 and 6 around stations 100N and 200N
L350	9	100	0.1	Moderate fit to high chargeabilities.
L400	0.8	100	0.1	Low chargeability around 0 not well represented in the model.
L500	2	100	0.1	Poor fit at n=5 and 6 around stations 0 and 50N
L550	8.5	100	0.1	Poor fit at n=5 and 6 around station 300N
L600	3.5	100	0.1	
L650	1	100	0.1	
L700	68	100	0.1	Very poor fit to high chargeabilities.
L750	0.7	100	0.1	
L800	17	100	0.1	Poor fit to the high chargeabilities at n=6 for the entire line
L850	1	100	0.1	
L850-50	0.3	100	0.2	Poor fit to the high chargeabilities around station 100N
Lone Star East grid				
L240	1	100	0.1	
L300	0.5	100	0.1	
L360	4	100	0.1	
L420	8.5	100	0.1	
L480	30	100	0.1	Moderate fit to high chargeabilities.
L540	73	100	0.1	Poor fit to high chargeabilities.
L600	92	100	0.1	Poor fit to the anomaly at station -400
L660	50	100	0.1	Very poor fit to high chargeabilities.
L720	1	100	0.1	
L780	7.5	100	0.1	
L840	1.5	100	0.1	
L900	11	100	0.1	

Line	Chi Factor	DOI Model (mV/V)	DOI Cut-off	Notes
L960	6	100	0.1	
Walcott 1987 IP grid				
L810.1W	0.5	100	0.3	
L720.1W	0.4	100	0.3	
L600.1W	1.8	100	0.2	
L480.1W	1	100	0.3	
L360.1W	1	100	0.3	
L240.1W	1.3	100	0.3	
L180.1W	1.1	100	0.2	
L120.1W	2.1	100	0.3	
L60.1W	0.75	100	0.3	
L0.1	0.75	100	0.2	
L120.1E	0.9	100	0.2	
L240.1E	1.7	100	0.2	
L360.1E	1.4	100	0.3	
L480.1E	1.3	100	0.3	

6. Image extraction. After the modelling was complete, final images were generated with the inversion software and converted to JPEGs which appear in Appendix D.

7. Composite sections. Pseudosections of the apparent resistivity, apparent chargeability, error in chargeability and true sections of recovered models of resistivity and chargeability were prepared from the final edited data and modelling results using the Geosoft Oasis Montaj IP package. Logarithmic colour scales for the resistivity sections and linear colour scales for the chargeability and error were used. To highlight details, colours are scaled to each line individually. Composite sections are in Appendix E, found in the back pockets of this report.

8. Stacked sections. Stacked pseudosections of the apparent resistivity and apparent chargeability and stacked models of resistivity and chargeability were produced for each grid. Logarithmic colour scales were used for the resistivity sections and linear colour scales were used for the chargeability. A common colour scheme was used for all lines within each grid. Stacked sections are found in Appendix F.

9. *3D gridding.* A 2.5D model was constructed from the 2D inversions. It is not a true 3D model as all the models were inverted using a 2 dimensional assumption. The models from the UBC GIF code were converted to ASCII xyz files. The geo-registration is based on a single point per line with a known azimuth, therefore there can be small geo-registration errors where the lines had a bend.

Data that did not agree within a factor of 0.4 between the default model run and the high chargeability or high resistivity run were rejected. The data were concatenated for each grid and also each grid was concatenated to a master file including all the grids. Resistivities were converted into conductivities. The data were imported into Rockworks 2004 for 3D gridding. The topographic surface was imposed as an upper boundary to the model with null values above the surface of the DEM. An inverse distance gridding algorithm was used with a moderate directional weighting of 108 degrees to offset the bias generated by greater data density along the line direction . A maximum distance filter was also applied with grid nodes far away from a valid data point assigned a null value. Finally a post-gridding high fidelity algorithm was applied to reduce the residuals between the source data and the gridded model. The table below describes details of the models for each grid.

Grid	UTME min	UTME max	UTMN min	UTMN max	Cell size	Maximum distance cutoff
Buckland	584400	586640	7084110	7085800	10 m	140 m
Lone Star East	588350	586580	7086840	7084720	10 m	45 m
Lone Star West	587400	585290	7087720	7085920	10 m	30 m
1987 Walcott IP	588500	584900	7087800	7084100	20 m	77 m
All grids	584400	588500	7084100	7087720	20 m	50 m

All the models had a vertical node size of 10 metres.

Surfaces parallel to the topographic surface were extracted and gridded using the same colour scheme as was used in the stacked sections. Individual grid results are embedded in the results and discussion section of this report. Plan maps at a 1:10000 scale of models using the data from all four grids are in Appendix G, in the back pocket of this report.

10. *Digital archive*. The final IP data, digital copies of the composite sections, stacked sections, inversion images and plan view maps were written to CD-ROM (attached to this report).

9.0 DATA PRODUCTS

A digital archive containing the report, figures, final and raw data is appended on CD-ROM to this report. The digital archive contains the following files and folders.

Raw	Raw IRIS Elrec Pro daily dump files, both in binary IRIS and ASCII formats.
Buckland 2006 IP.gdb, Buckland 2006 IP.xyz, Lone Star East 2006 IP.gdb, Lone Star East 2006 IP.xyz, Lone Star West 2006 IP.gdb, Lone Star West 2006 IP.xyz, 1987 Walcott IP.gdb, 1987 Walcott IP.xyz	In the Final folder, final IP data in Geosoft database and ASCII xyz format for the three 2006 grids. Digitized IP data Geosoft database and ASCII xyz format from Walcott 1987 survey.
Buckland IP Grid Coordinates.xls Lonestar IP East Grid Coordinates.xls Lonestar IP West Grid Coordinates.xls 1987 GPS.xls	In the Final folder, Excel spreadsheets as supplied by Klondike Star personnel with all GPS survey points. Spreadsheet with digitised data of 1987 Walcott IP survey.
Figures	A folder with full scale pdf copies of all figures found in the back pocket of this report.
Inversion images	Jpgs of recovered models with convergence curves and observed and predicted data for each line.
Lone Star Project 2006 IP survey.pdf	PDF of this report

10.0 RESULTS & DISCUSSION

Composite sections comprising pseudosections of apparent resistivity, apparent chargeability and error in apparent chargeability and recovered models of resistivity and chargeability are found for all 4 grids in Appendix E at a scale of 1:2500, except for lines 810.1W of the Walcott 1987 IP survey which were plotted at 1:5000 because of its length. Appendix F has stacked pseudosections of apparent chargeability and apparent resistivity and stacked recovered models of resistivity and chargeability plotted at a 1:4000 scale. Plan maps parallel to the ground of recovered resistivity and chargeability at a 1:10,000 scale are in Appendix G. All the above appendices are found in the back pockets of this report. Page sized versions of the above figures, not to scale, are found in Appendix H.

Buckland Grid

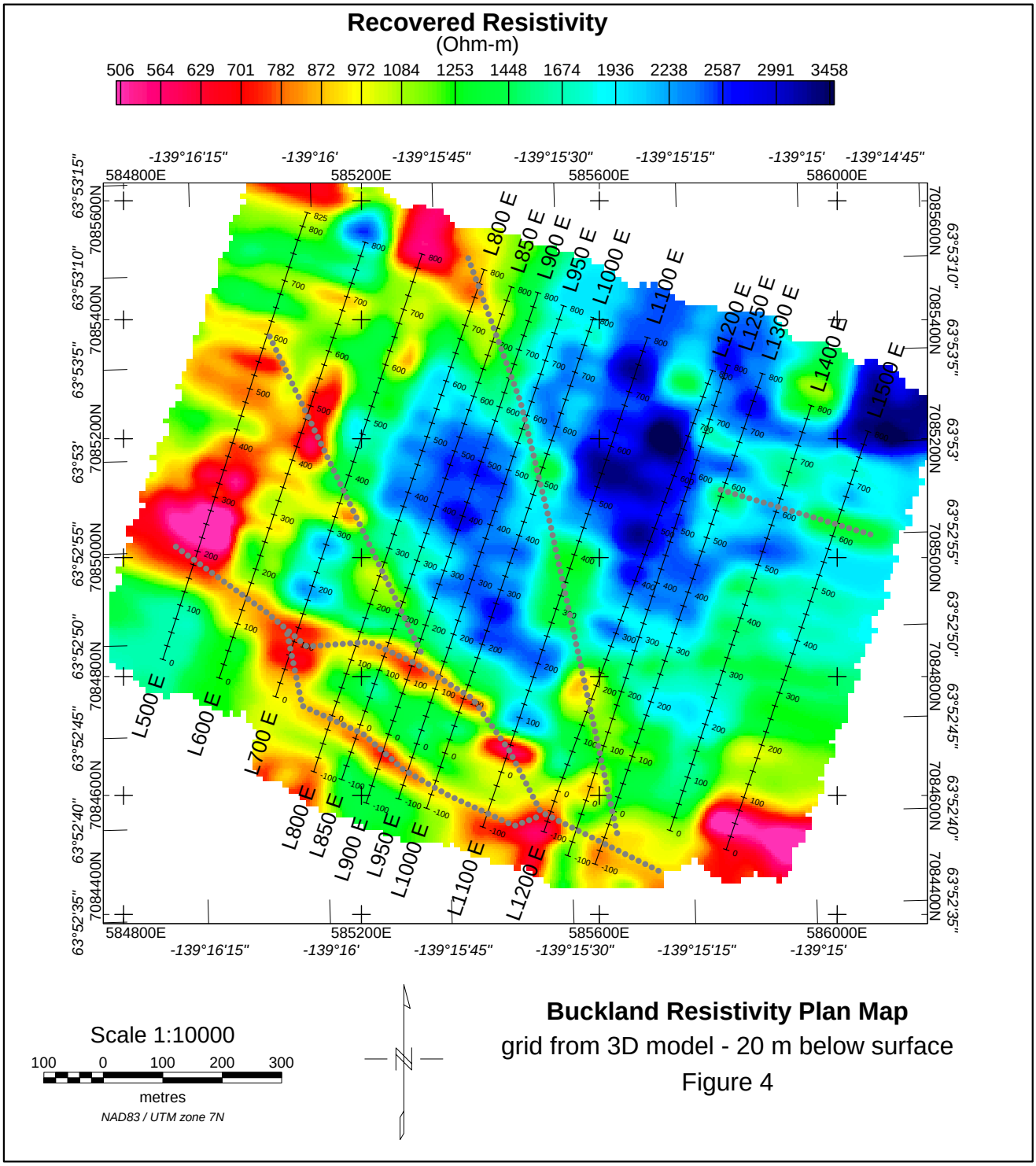
Line 810.1W from the Walcott 1987 survey extends into the 2006 Buckland grid, lying

close to line 1250. The results of the 1987 survey are consistent with those of the 2006 survey with a modest increase in conductivity at the south end of the line and two modest recovered chargeability highs, with amplitude between the more muted L1300E response and the higher amplitude response on L1250E.

Plan maps from the 2.5D model extracted at a constant depth below surface are shown in figures 4 through 7. Figures 4 and 5 show gridded recovered resistivity at depths of 20 m and 70 m below surface respectively; these grids are interpolated and extracted from the recovered resistivity sections which are also shown as stacked 2D sections in Appendix F. In general, the grid has two domains, a resistive domain to the northeast and more conductive ground to the south and west. In the south, the conductive zone is splayed into two well defined linear conductive features running 120/300 between L700E and L1200E. The southern feature appears to pinch out at depth, but as this feature is at the very southern extreme of the survey line, large dipole separation data were not collected here and the lack of continuity at depth may only reflect a paucity of data. The more northern feature appears to coalesce into another conductive structure running at NW at depth. A NNW conductive break running through the resistive domain runs from station 0 on L1300E through station 800N on L800E. Another more subtle conductive feature runs ENE from L1500E to L 1250E, 600N on the 70 m below surface grid.

Some caution must be exercised in the interpretation of the recovered chargeability models because modeling (inversion) was unable to replicate the observed data in the area. This is reflected by most of the chi-factors from the inversions being > 1 and can be seen visually by inspection of the inversion results in Appendix D. The chargeability model does not have as well defined structure as the resistivity model. Both the 50 m depth map (Figure 6) and the 100 m depth map (Figure 7) have > 15 mV/V zones recovered at the south ends of lines 1100E – 1250E and the south end of lines 500E and 600E. Several other areas of high chargeability are imaged on lines 500E and 600E, particularly on the deeper map, however the highest apparent chargeabilities in the data were not well fitted on these lines. L800E has high apparent chargeabilities, but the data misfit is large here and the high apparent chargeability is only marginally represented in the model. A central area on lines 1000 to L1250E also has elevated chargeabilities, although the area likely under estimates the true chargeability as model had poor fits to high apparent chargeability in the middle of the lines.

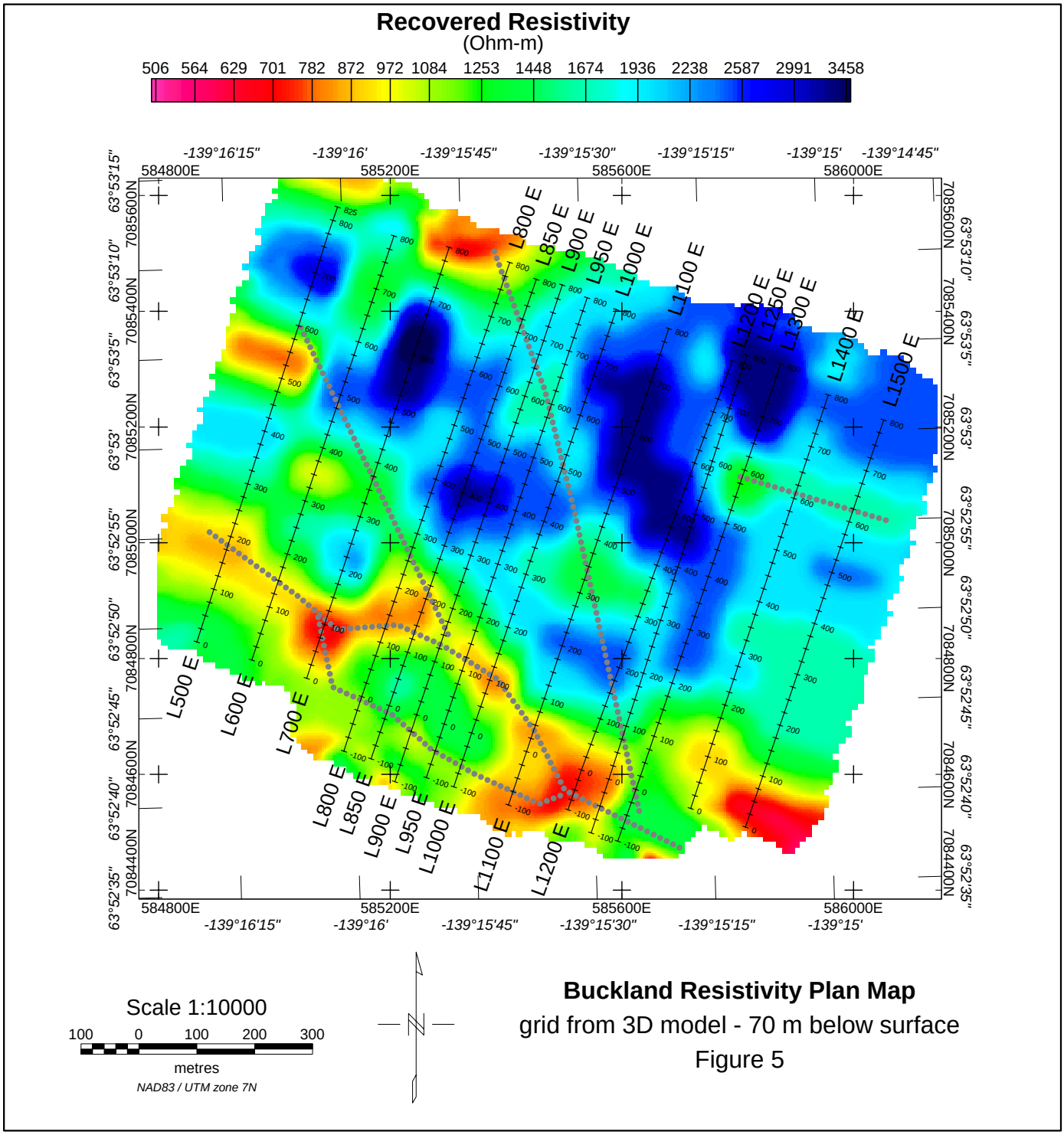
The linear ESE/WNW resistivity lows are interpreted to be the Buckland “Shear Zone” where brittle fractures are present and may act as conduits for groundwater leading to their reduced resistivity. Chargeability highs coincident with resistivity lows are imaged in the vicinity of the Hilchey Zone at station 300N on line 500E, although more anomalous values are found to the east on L600E. However, the data to model misfit was high on L500E and several high apparent chargeability readings were not reproduced by the model. The chargeability high on L800E at station 200N is under-fit by the inversion and the true chargeability anomaly is likely greater than shown. As well, there are high chargeability zones between stations 200N and 500N on lines 1000E to 1250E (which are also likely under estimated in the recovered model), on the



Buckland Resistivity Plan Map

grid from 3D model - 20 m below surface

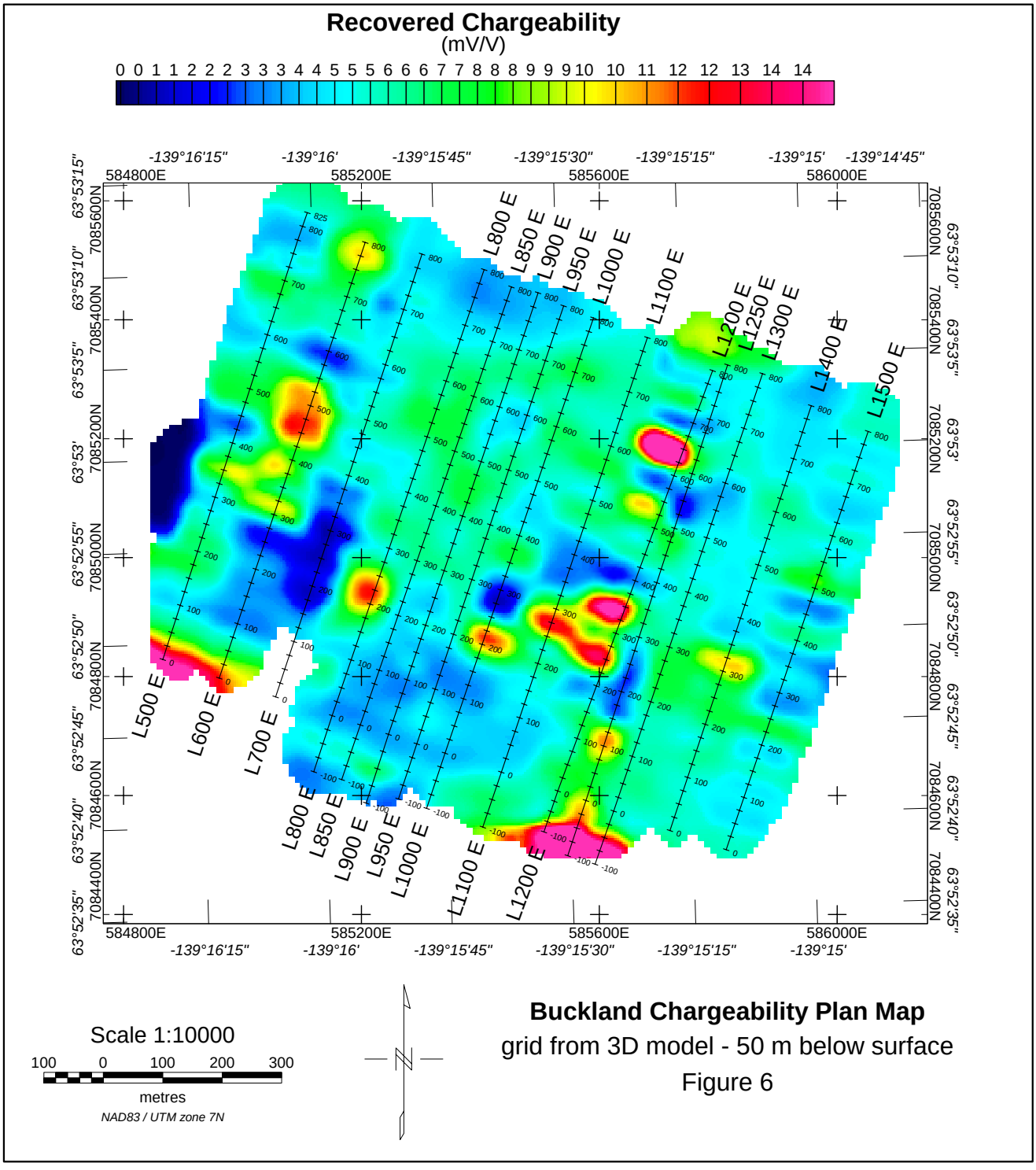
Figure 4



Buckland Resistivity Plan Map

grid from 3D model - 70 m below surface

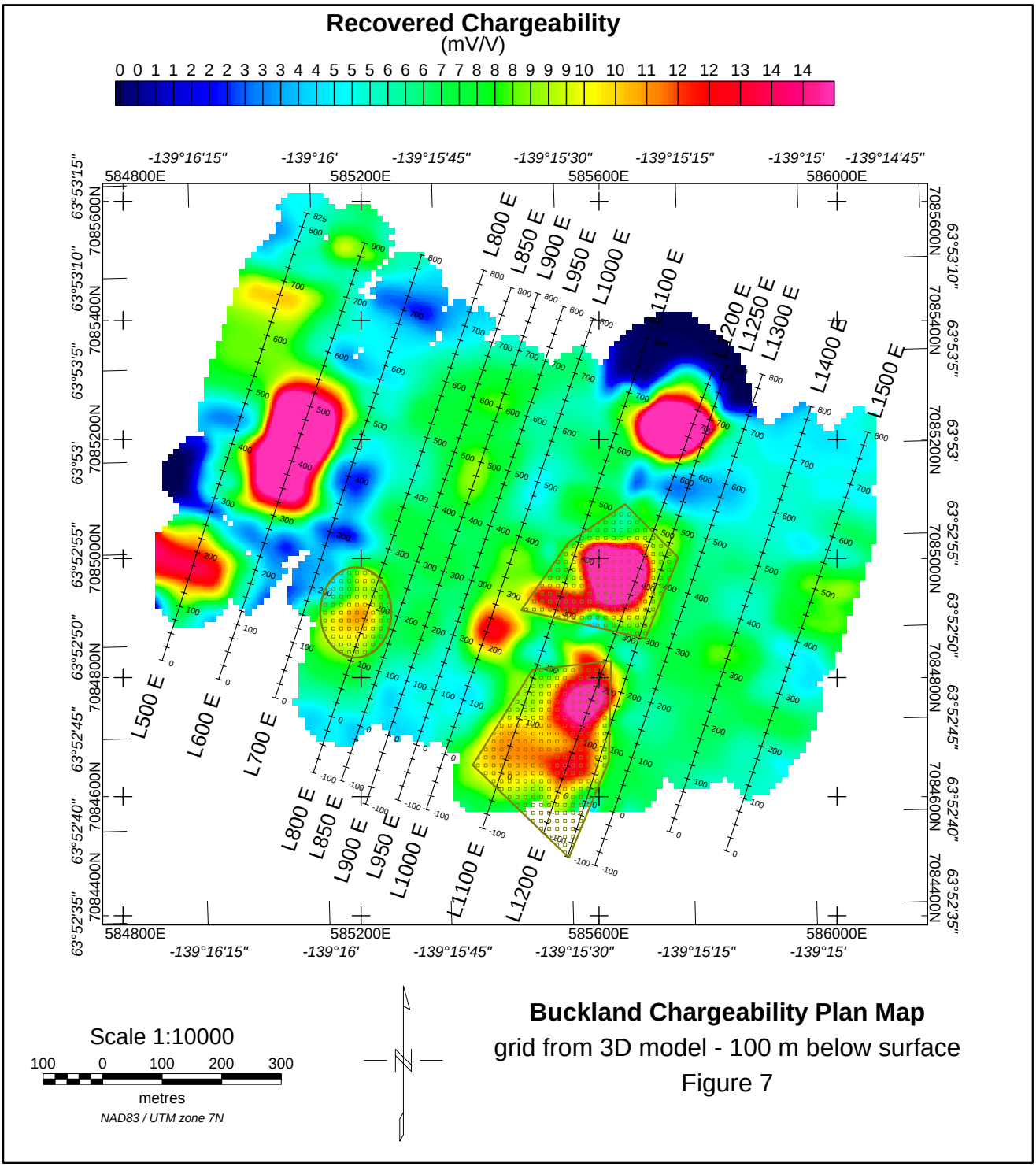
Figure 5



Buckland Chargeability Plan Map

grid from 3D model - 50 m below surface

Figure 6



Buckland Chargeability Plan Map

grid from 3D model - 100 m below surface

Figure 7

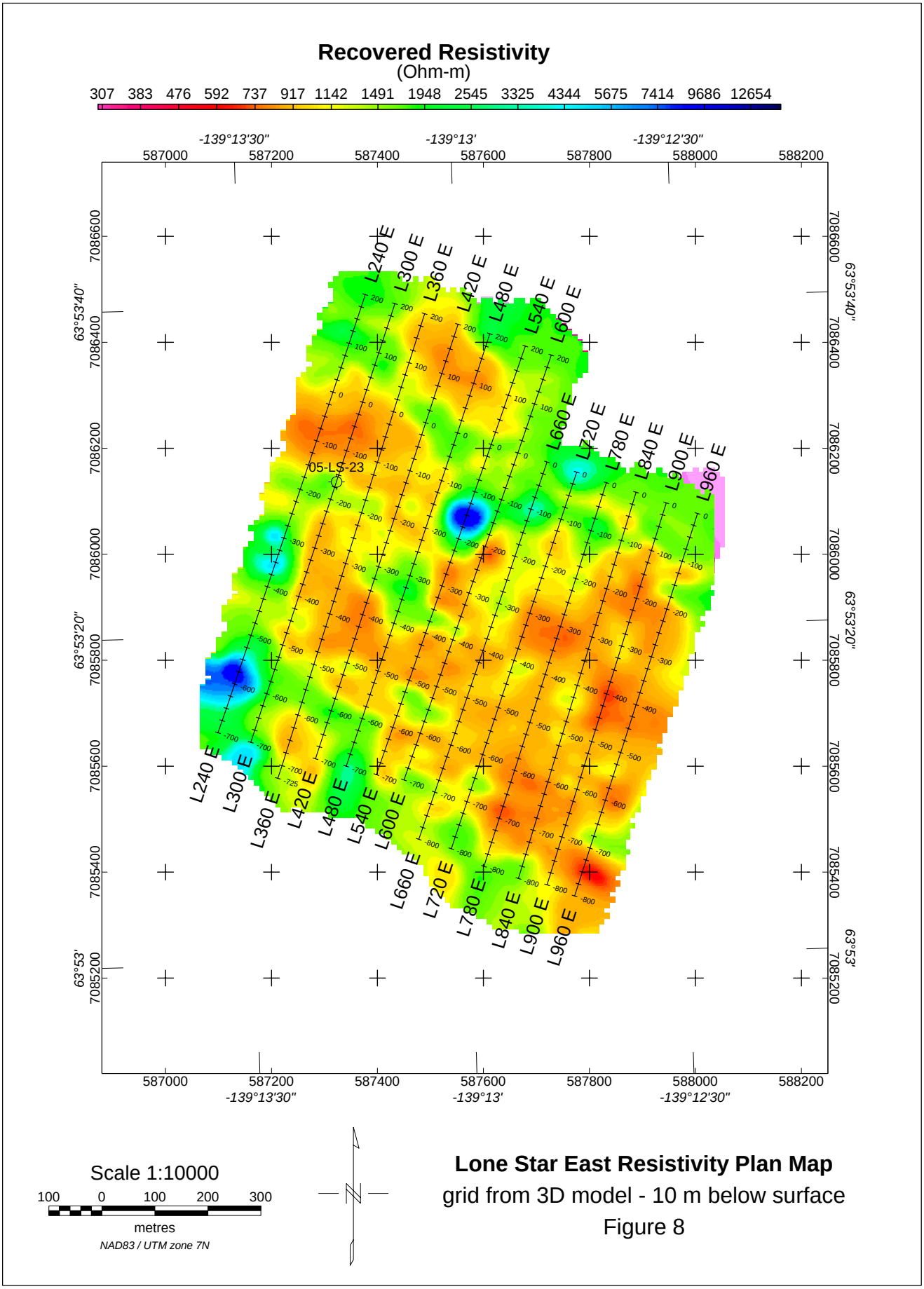
south ends of lines 1100, 1200 and 1250 and on the north end of line 1200E. The chargeability highs on the south ends of lines 1000E to 1250E are coincident with the coalescing of the two linear conductive features interpreted as the Buckland shear zone. This suggests the presence of structurally controlled chargeable mineralization.

Lone Star East Grid

The Lone Star East grid overlaps extensively with the 1987 Walcott IP survey sharing a common baseline and lines spaced 120 metres from L240E to L960E. The 2006 Lone Star East survey had a line spacing of 60 metres, therefore every second line was a new line. Three lines (240.1E, 360.1E and 480.1E) of the repeated 1987 Walcott survey lines were digitized and are presented in this report as a check on the consistency of the results. The two surveys agree very well with each other; main differences in the recovered resistivity models of the include a conductive body at station 225S on L360E which is only marginally imaged in the 1987 recovered model and a much stronger conductive anomaly on the north end of L480 on the 2006 survey than the Walcott 1987 survey. The reason for these discrepancies is that in both cases, the recovered anomalies are being driven by low apparent resistivity readings on n = 5 & 6 separations in the 2006 data while the Walcott 1987 survey only read n = 1 through 4.

The recovered chargeabilities are less consistent, likely because of the different maximum n-separation again. L240E has subdued recovered chargeabilities in both surveys with the largest values centered at station 200S. The 2006 survey has the largest apparent chargeabilities on n=5 & 6 separations and therefore the 2006 recovered model has a greater amplitude than the recovered model the Walcott 1987 data. On L360E, both surveys again image an overall subdued chargeability response with a small-amplitude high at station 600S (575S on the Walcott 1987 survey) and a broad low-amplitude response centered at station 200S. The 2006 recovered model has a greater amplitude again because of the extra n = 5 & 6 readings. On L480E, the difference between the two surveys is extreme. The 2006 survey read some large apparent chargeabilities values on n = 5 & 6 and drove the recovered models to high-amplitude chargeability anomalies. The locations are consistent with modest chargeability anomalies imaged from the Walcott 1987 survey, but as the amplitudes are mainly driven by the large n = 5 & 6 readings the differences in recovered amplitudes are large. The 2006 survey is the preferred data set as it contains the n=5 & 6 readings.

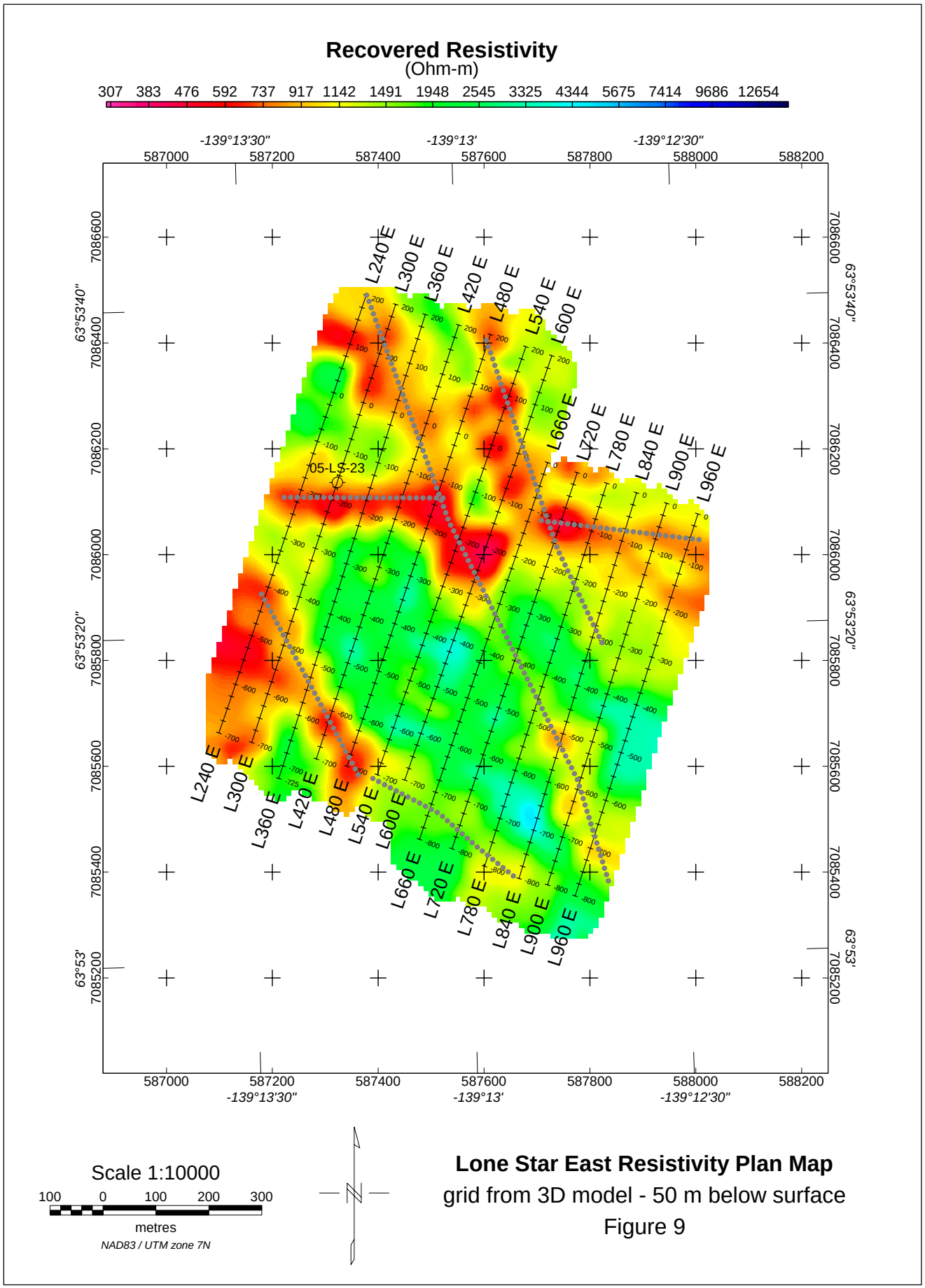
The recovered resistivity model, illustrated by Figures 8 (10 m below surface), 9 (50 m below surface) and 10 (100 m below surface), shows generally a trend of conductive ground (< 1000 Ohm-m) to the northeast and more resistive ground to the southwest on the deeper models. The model 10 m below surface has more consistent resistivity throughout the entire grid. Three linear conductive features run approximately NNW: 1) from L480E, 700S to L240E, 500S 2) from L960E, 700S to L240E, 100N and 3) from L840E, 300S to L480E, 200N. These may be the expressions of the characteristic



Lone Star East Resistivity Plan Map

grid from 3D model - 10 m below surface

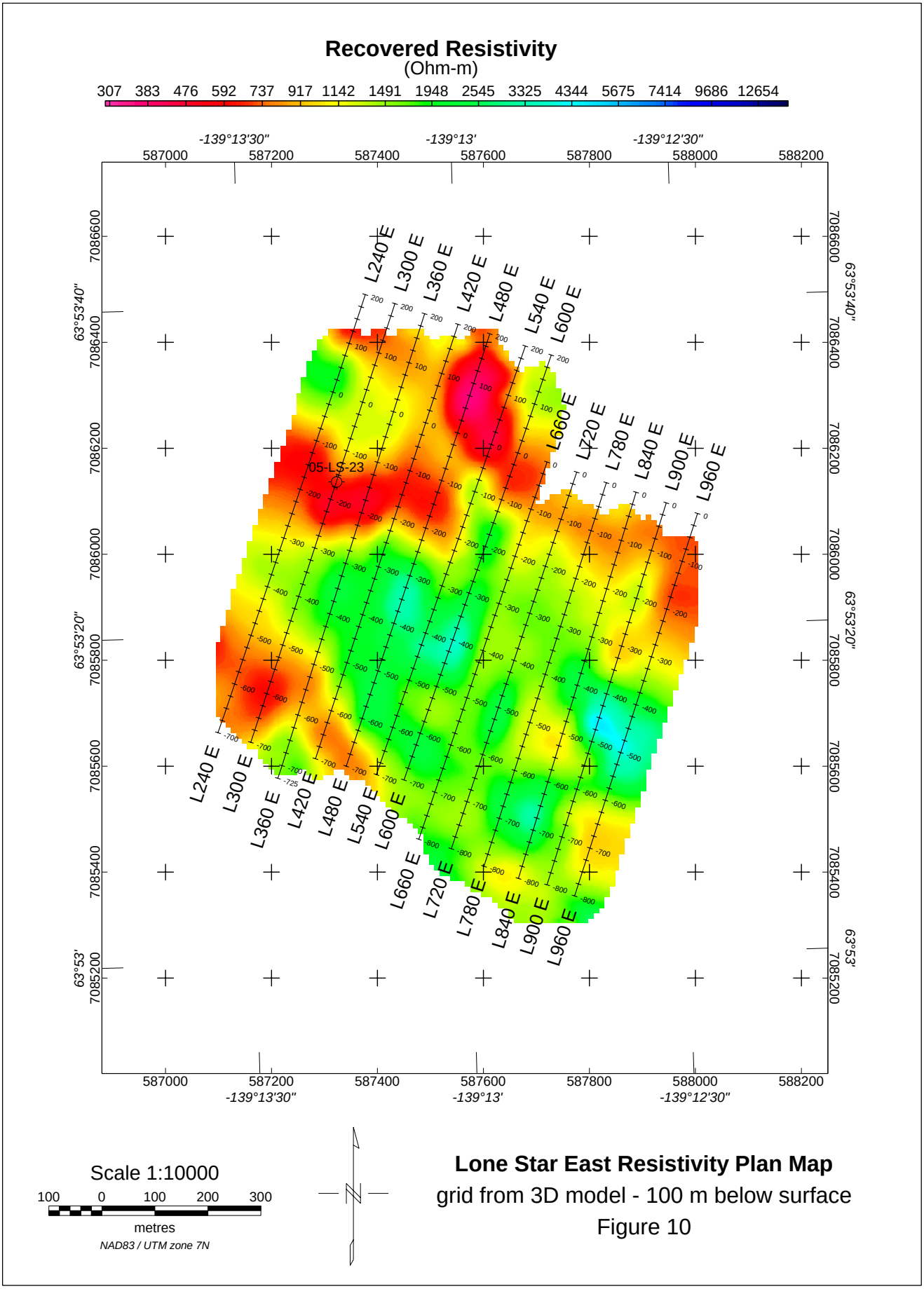
Figure 8



Lone Star East Resistivity Plan Map

grid from 3D model - 50 m below surface

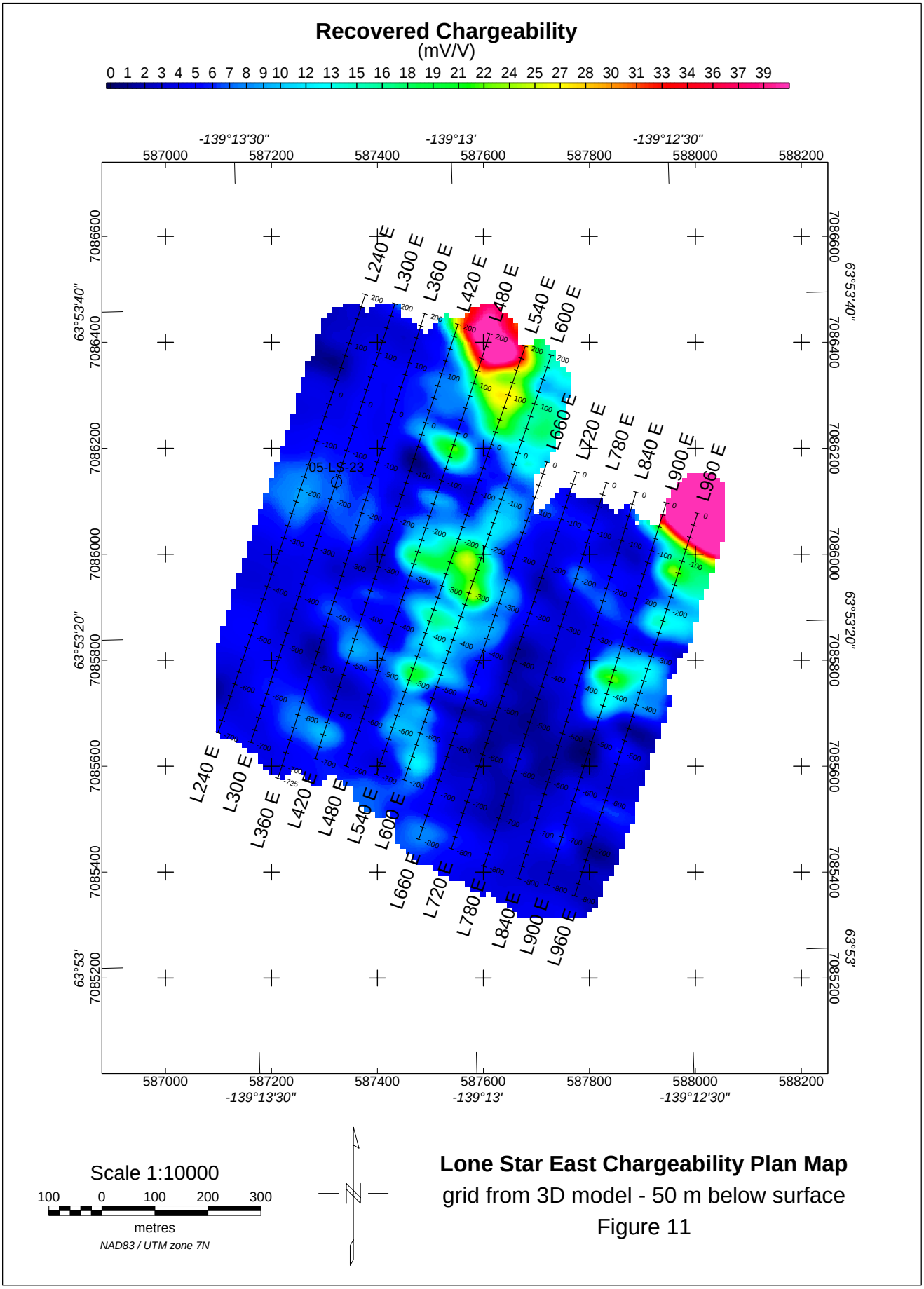
Figure 9



Lone Star East Resistivity Plan Map

grid from 3D model - 100 m below surface

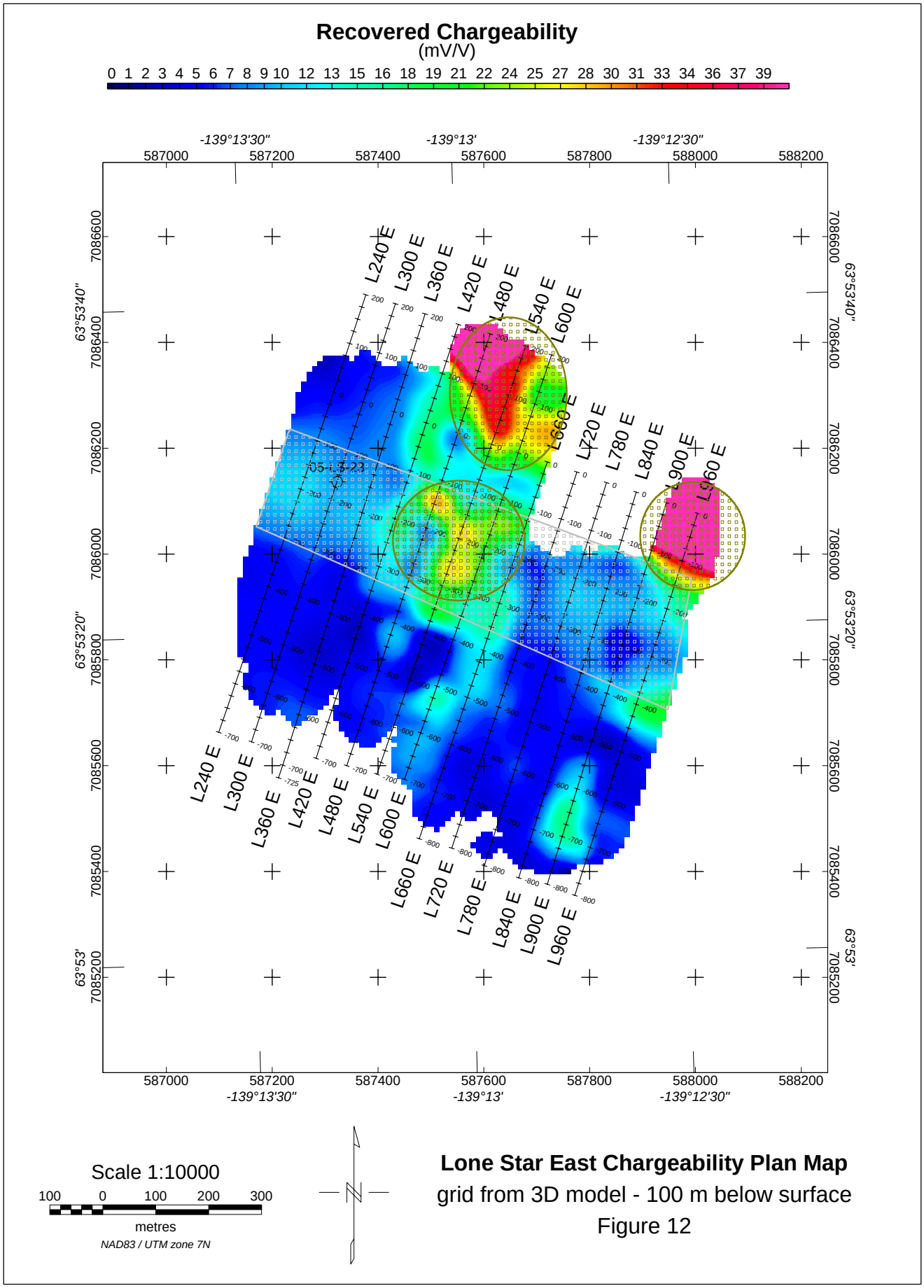
Figure 10

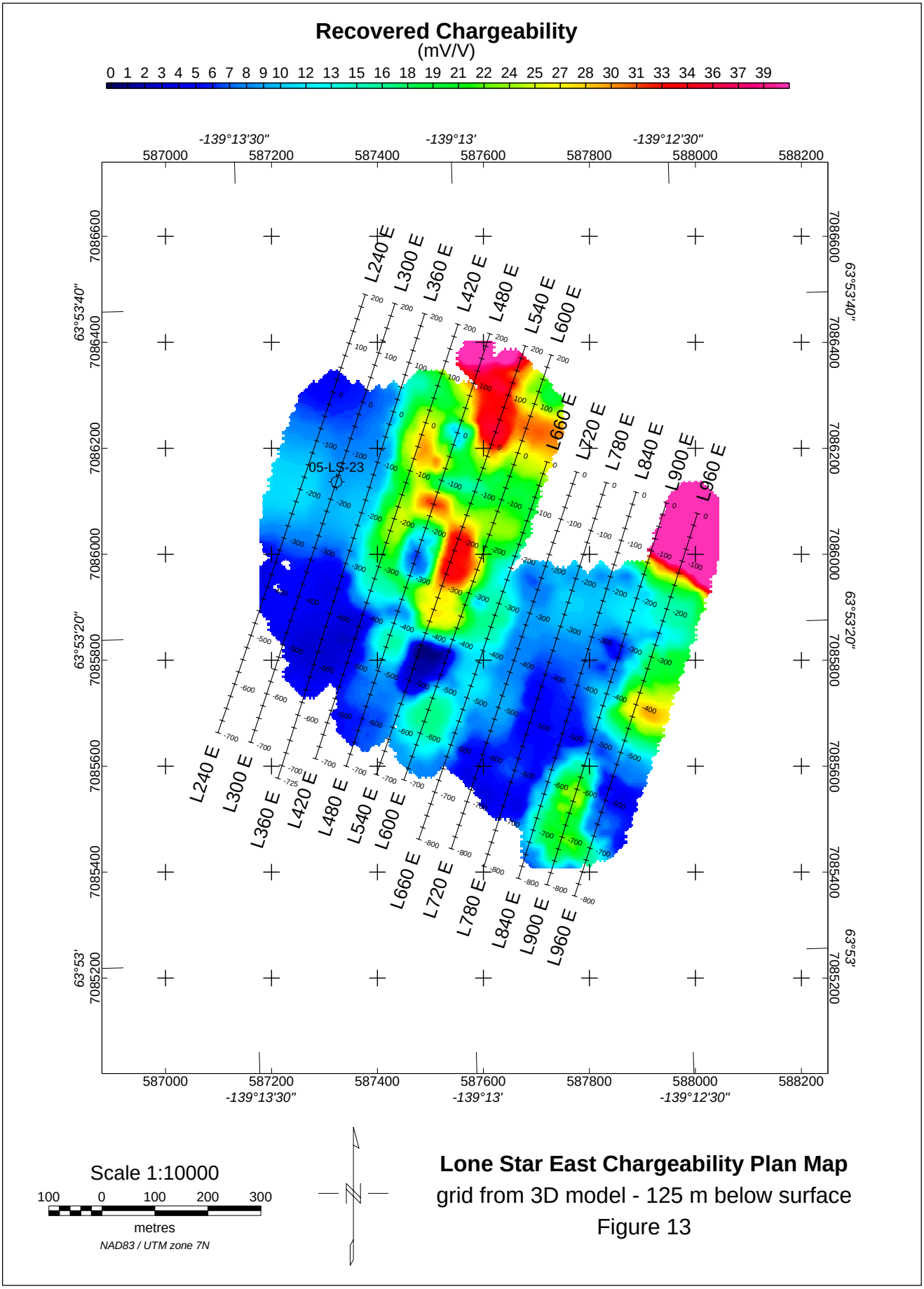


Lone Star East Chargeability Plan Map

grid from 3D model - 50 m below surface

Figure 11


Recovered Chargeability
(mV/V)
0 1 2 3 4 5 6 7 8 9 10 12 13 15 16 18 19 21 22 24 25 27 28 30 31 33 34 36 37 39
-139°13'30"
-139°13'
-139°12'30"
587000
587200
587400
587600
587800
588000
588200
7086600
7086400
7086200
7086000
7085800
7085600
7085400
7085200
63°53'40"
63°53'20"
63°53'
L240 E
L300 E
L360 E
L420 E
L480 E
L540 E
L600 E
L660 E
L720 E
L780 E
L840 E
L900 E
L960 E
05-15-23
Scale 1:10000
100 0 100 200 300
metres
NAD83 / UTM zone 7N
Lone Star East Chargeability Plan Map
grid from 3D model - 100 m below surface
Figure 12



Scale 1:10000

100 0 100 200 300

metres

NAD83 / UTM zone 7N

Lone Star East Chargeability Plan Map

grid from 3D model - 125 m below surface

Figure 13

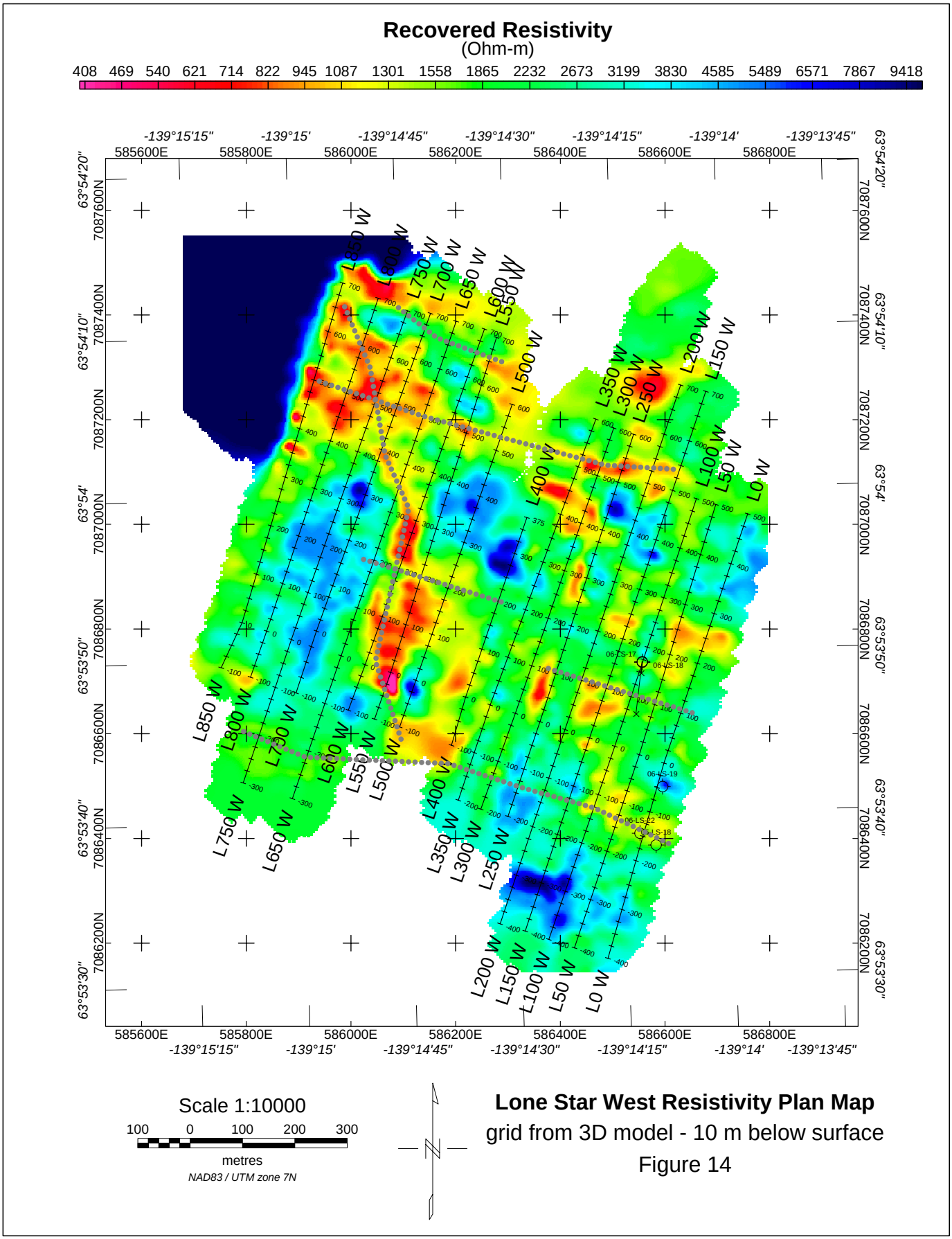
fracturing adjacent to intrusive diabase dikes observed in the area. In addition there is a conductive feature running EW from L240E, 200S to L960E, 75S. All of the conductive features are most easily seen in the 50 m below surface plot (Figure 9).

Plan views of recovered chargeability models are shown in Figures 11, 12 and 13 at depths of 50, 100 and 125 m below surface respectively. Some caution must be exercised in interpreting the recovered chargeability models as the misfit between the observed and predicted data is large on lines 480E through 660E. The recovered models do not reproduce the high apparent chargeability observed and the true chargeability distribution is likely greater than what is modelled. The upper layer is generally not chargeable, reflecting the deep weathering of the unglaciated Klondike region. There is a wide 200 m band of moderately elevated chargeability (10 mV/V) running across the grid centered at 200S, seen in Figures 12 and 13. Superimposed on this moderate chargeability trend are large chargeabilities on lines 420E through 660E, on line 900E from 600S to 700S and on L960E, particularly the north end of the lines 480E, 540E and 960E. These high chargeability features are quite deep and appear to increase in amplitude down to below 125 m (relative to surface).
Drill hole 05-LS-23, which is a vertical hole with the collar at 587322E, 7086136N (corresponding to station 165S on L300E) recovered only trace pyrite to 50 m, trace to 2% pyrite from 50 m to 100 m and finally increasing to 4 – 8 % pyrite from 100 m to 132 m. This is consistent with the model, although the modest recovered chargeability anomaly is closer to surface than the observed mineralization at 100 –132 m.

Lone Star West Grid

The 2006 Lone Star West grid overlaps with the 1987 Walcott IP grid on lines 300W (equivalent to the Walcott L810.1W), 100W (equivalent to the Walcott L600.1W), L200W (close to Walcott L720.1W) and L0W (close to Walcott 480.1W). The station numbering is consistent for the two surveys. The recovered resistivity models between the two surveys agree very well. The 2006 survey has higher recovered chargeabilities in general, partly caused by the highest apparent chargeabilities often measured on the n=5 & 6 channels which were not surveyed in the 1987 survey. There is quite a large difference between the two surveys on L300W / L810.1W which could also be attributed to the fact that different array geometries were used (dipole-dipole as opposed to modified pole-dipole. Of note on the L300W / L810.1W is that the surficial high chargeability at station 100N is imaged in both surveys.

Plan maps of recovered resistivity are shown in Figures 14, 15 and 16 showing depths of 10, 50 and 100 m below surface respectively. Two sets of conductive features are seen. There are several ESE-WNW trending features: one runs all the way across the grid between 100S and 200S, seen best on Figures 15 and 16. A second is visible on Figure 15, running across the northern extent of lines 550W through 850W, although it is obscured by the general low resistivity in the NW corner of the grid. A third is from L0W to L250W along station 100N and a fourth from L400W through L550W at station 200N both again best seen on Figure 15 at a depth of 50 m below surface. Lastly, there



Scale 1:10000

100 0 100 200 300

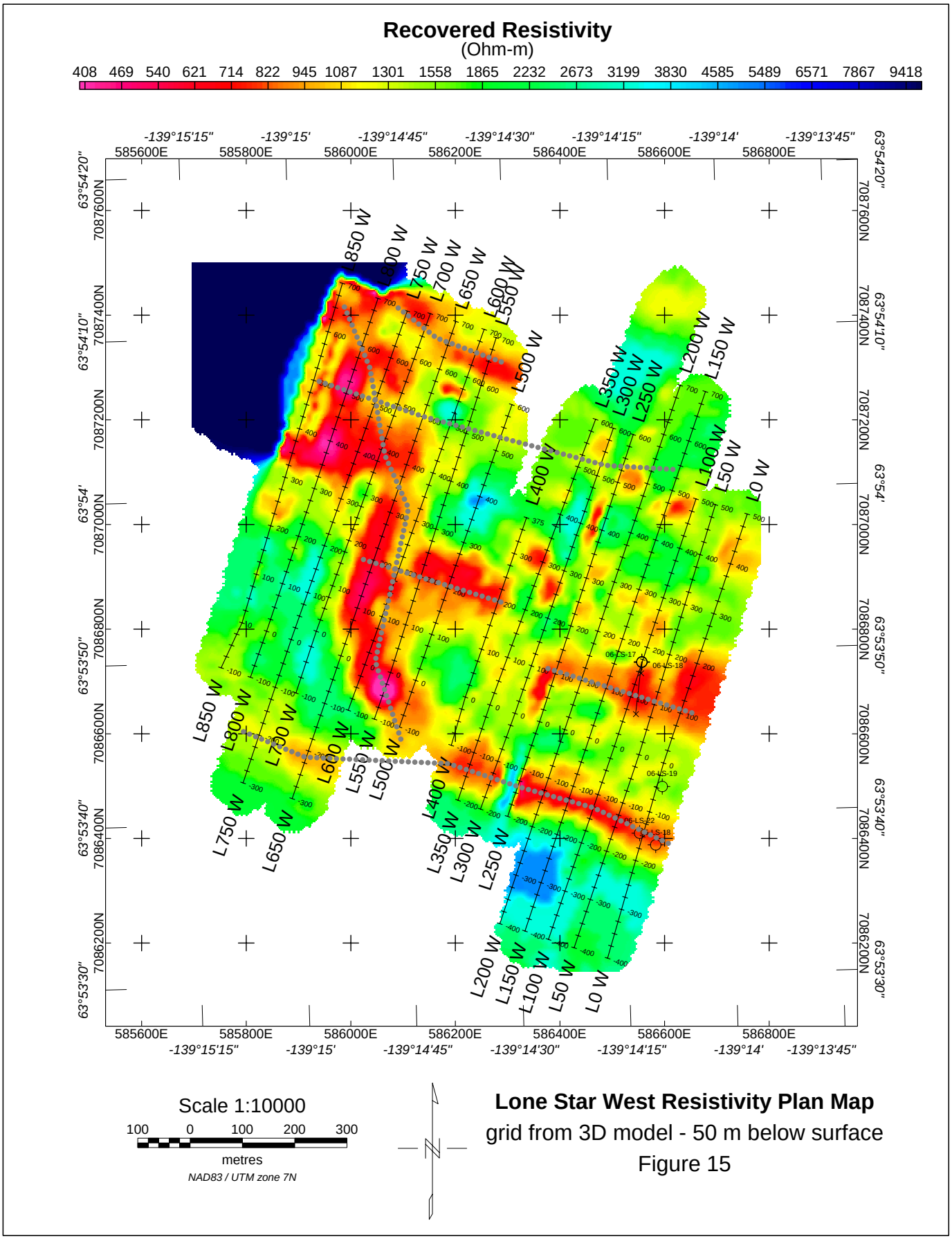
metres

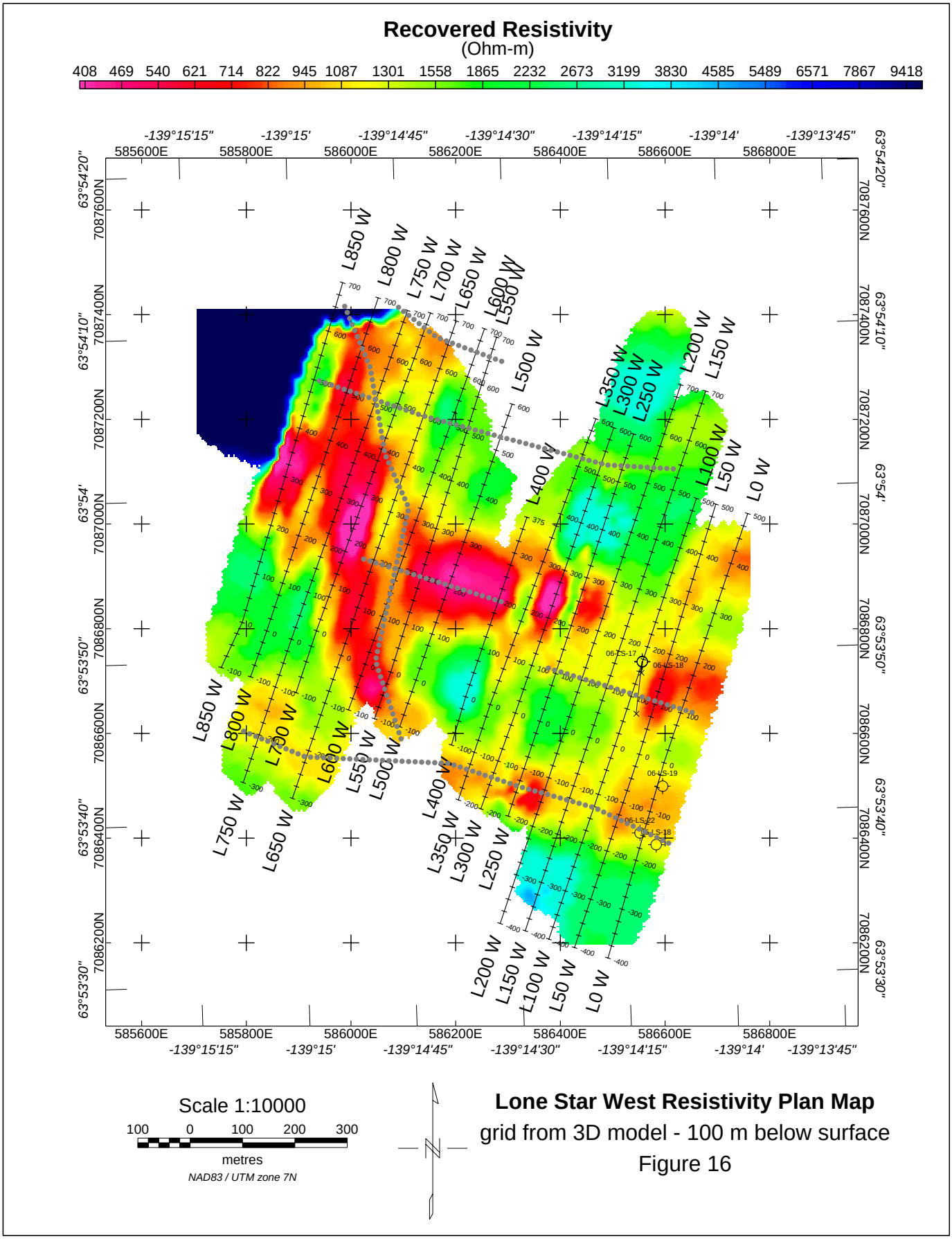
NAD83 / UTM zone 7N

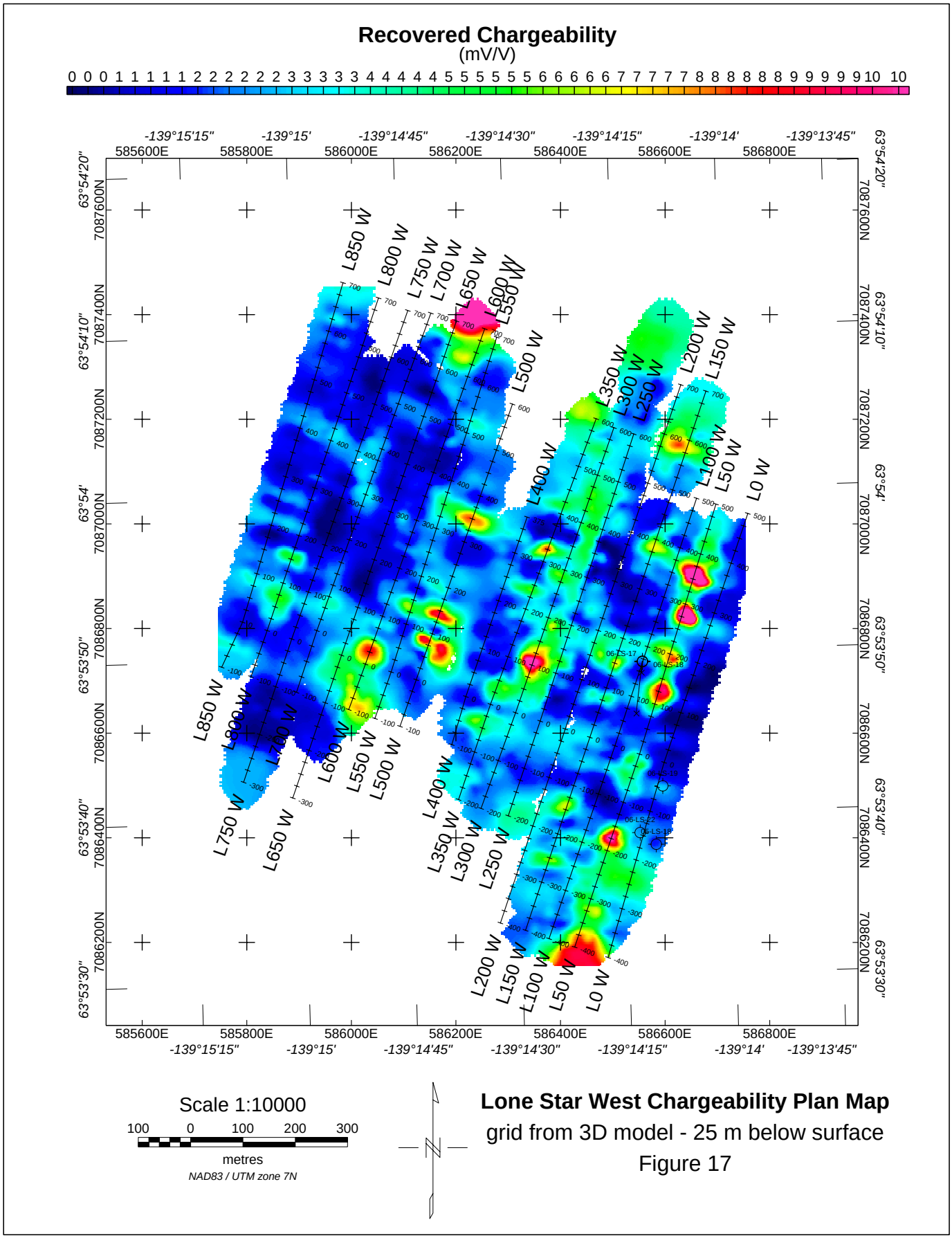
Lone Star West Resistivity Plan Map

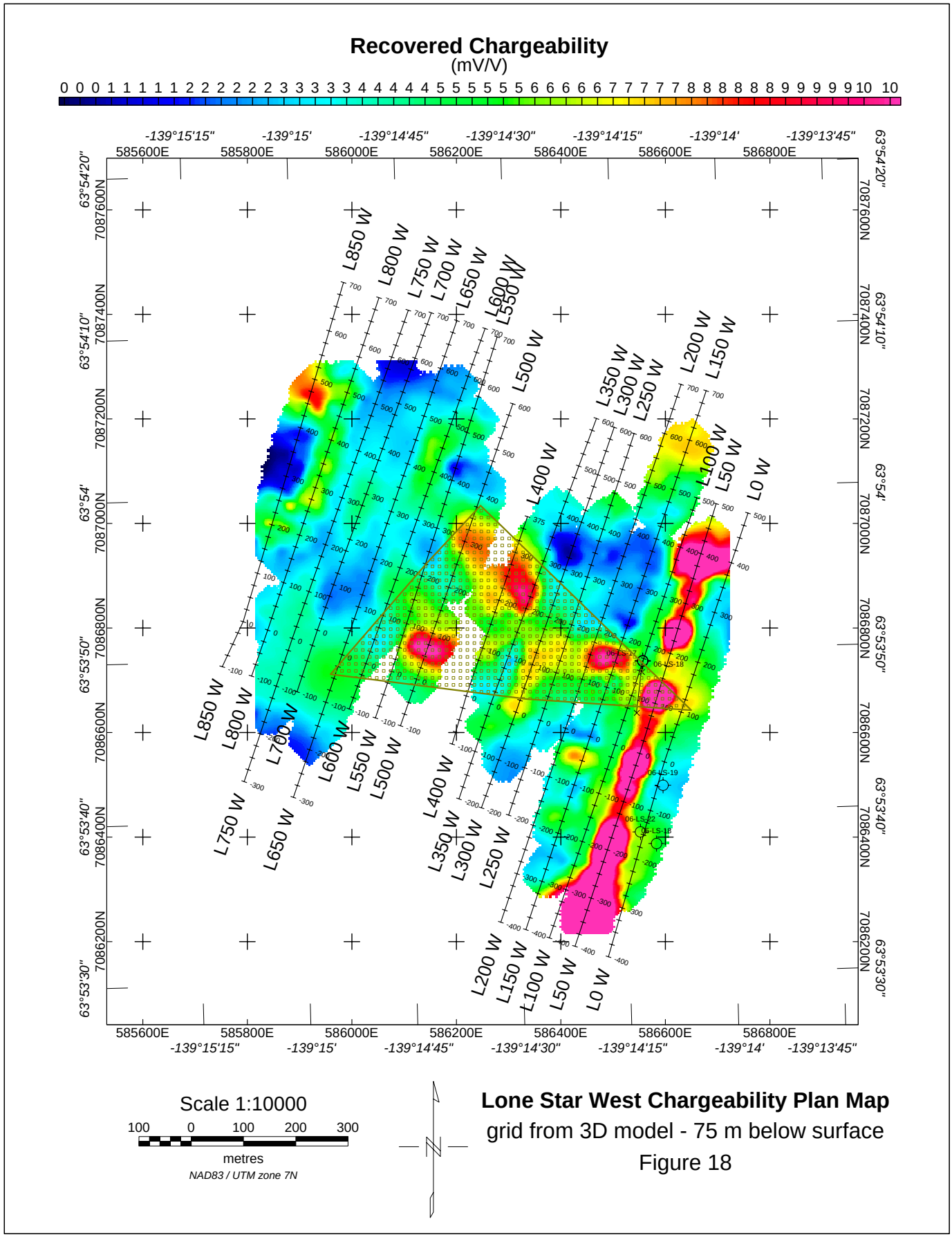
grid from 3D model - 10 m below surface

Figure 14


Recovered Resistivity
(Ohm-m)
408 469 540 621 714 822 945 1087 1301 1558 1865 2232 2673 3199 3830 4585 5489 6571 7867 9418
-139°15'15" -139°15' -139°14'45" -139°14'30" -139°14'15" -139°14' -139°13'45"
585600E 585800E 586000E 586200E 586400E 586600E 586800E
63°54'20" 63°54'10" 63°54' 63°53'50" 63°53'40" 63°53'30"
7087600N 7087400N 7087200N 7087000N 7086800N 7086600N 7086400N 7086200N
L850 W L800 W L750 W L700 W L650 W L600 W L550 W L500 W L400 W L350 W L300 W L250 W L200 W L150 W L100 W L50 W L0 W
06-LS-17 06-LS-18 06-LS-19 06-LS-22 06-LS-18
Scale 1:10000
100 0 100 200 300
metres
NAD83 / UTM zone 7N
Lone Star West Resistivity Plan Map
grid from 3D model - 50 m below surface
Figure 15


Recovered Resistivity
(Ohm-m)
408 469 540 621 714 822 945 1087 1301 1558 1865 2232 2673 3199 3830 4585 5489 6571 7867 9418
-139°15'15" -139°15' -139°14'45" -139°14'30" -139°14'15" -139°14' -139°13'45"
585600E 585800E 586000E 586200E 586400E 586600E 586800E
63°54'20" 63°54'10" 63°54' 63°53'50" 63°53'40" 63°53'30"
7087600N 7087400N 7087200N 7087000N 7086800N 7086600N 7086400N 7086200N
L850 W L800 W L750 W L700 W L650 W L600 W L550 W L500 W L400 W L350 W L300 W L250 W L200 W L150 W L100 W L50 W L0 W
06-LS-17 06-LS-18 06-LS-19 06-LS-22 06-LS-18
Scale 1:10000
100 0 100 200 300
metres
NAD83 / UTM zone 7N
Lone Star West Resistivity Plan Map
grid from 3D model - 100 m below surface
Figure 16


Recovered Chargeability
(mV/V)
0 0 0 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 4 4 4 4 4 5 5 5 5 5 6 6 6 6 6 7 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 10 10
-139°15'15"
-139°15'
-139°14'45"
-139°14'30"
-139°14'15"
-139°14'
-139°13'45"
585600E
585800E
586000E
586200E
586400E
586600E
586800E
63°54'20"
63°54'10"
63°54'
63°53'50"
63°53'40"
63°53'30"
7087600N
7087400N
7087200N
7087000N
7086800N
7086600N
7086400N
7086200N
L850 W
L800 W
L750 W
L700 W
L650 W
L600 W
L550 W
L500 W
L400 W
L350 W
L300 W
L250 W
L200 W
L150 W
L100 W
L50 W
L0 W
06-LS-17
06-LS-18
06-LS-19
06-LS-22
06-LS-19
Scale 1:10000
100 0 100 200 300
metres
NAD83 / UTM zone 7N
Lone Star West Chargeability Plan Map
grid from 3D model - 25 m below surface
Figure 17


Recovered Chargeability
(mV/V)
0 0 0 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 5 6 6 6 6 6 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 10 10
-139°15'15"
-139°15'
-139°14'45"
-139°14'30"
-139°14'15"
-139°14'
-139°13'45"
585600E
585800E
586000E
586200E
586400E
586600E
586800E
63°54'20"
63°54'10"
63°54'
63°53'50"
63°53'40"
63°53'30"
7087600N
7087400N
7087200N
7087000N
7086800N
7086600N
7086400N
7086200N
L850 W
L800 W
L750 W
L700 W
L650 W
L600 W
L550 W
L500 W
L400 W
L350 W
L300 W
L250 W
L200 W
L150 W
L100 W
L50 W
L0 W
06-LS-17
06-LS-18
06-LS-19
06-LS-22
06-LS-18
Scale 1:10000
100 0 100 200 300
metres
NAD83 / UTM zone 7N
Lone Star West Chargeability Plan Map
grid from 3D model - 75 m below surface
Figure 18

is a conductive trend along station 500N, seen only in the shallower plan map, Figure 14 at a depth of 10 m. There is also a N-S trending conductive feature from the southern extreme of line 500W to the northern extreme of line 800W. This trend appears to dip to the west. These features can also be seen on the stacked recovered resistivity sections in Appendix E.

In the recovered chargeability, shown in plan maps of 25 and 50 m below surface shown in Figures 17 and 18 respectively, there are elevated chargeabilities all along line 50W. Line 50W often had very high apparent chargeabilities on the n=6 channel, and this aspect of the data was poorly modelled by the inversion algorithm. Fine details of the recovered model should therefore be viewed with suspicion, although the overall texture of the recovered model - that of several small, predominantly deep, chargeable bodies - is consistent with the data. It is surprising that no indications of these features appear in either lines 0 or 100W, suggesting that part of the response is caused by local current channeling through a chargeable structure related to the stationary electrode at the south end of the line

There are also elevated chargeabilities in a triangular region bounded by L650W, 25S; L500W, 375N and L0W, 100N with high spatial frequency anomalies in the 25 m depth plan map and broader anomalies imaged deeper at 75 m below surface. Lastly elevated chargeabilities are imaged in the northern half of lines 800W and 850W, the northern extreme of lines 600W and 650W and at station 600N of lines 150W and 200W.

On line 350W, the character of the recovered model is suspect; the data suggests several thin or small chargeable bodies as opposed to the single large deep anomalous body produced by the inversion algorithm. Similarly for line 700W, where the recovered model shows a single, barely anomalously high chargeability feature while the data suggests several thin or small chargeable bodies. Lines 300W and 800W also had particularly poor fits between the modelled response and the data.

Drill holes 06-LS-17 and 06-LS-18 were both collared very close to L100W, station 175N. Aside from trace pyrite, 06-LS-17 had 2-5 % pyrite from 20- 25 m and from 115 m to the end of the hole, which was nearly vertical with a dip of 80 degrees. Although the shallower band of pyrite is not imaged in the recovered model, the deeper interval is consistent with the model which shows a chargeable body at a depth of approximately 100 metres. Hole 06-LS-18, at a dip of 50 degrees, has 1-2 % pyrite from 107 – 133 m, which is again consistent with the modelled results. The drill hole generally passes above the recovered chargeable anomaly, only grazing the edge of high chargeability in the model. The trace of the hole is not parallel to the lines and the hole ends in between lines 50W and 100W.

Drill holes 06-LS-22, 05-LS-18 and 06-LS-19 are vertical holes with the collar of 06-LS-22 approximately 10 m SW of station 150S on line 0W, the collar of 05-LS-18 40 m SE of station 150S, line 0W and the collar of 06-LS-19 20 m SE of station 50S, line 0W. Neither 06-LS-22 nor 05-LS-18 recovered more than trace pyrite in the upper 50

meters, and then varying trace to locally 10% pyrite to the end of the hole. Hole 06-LS-19 had pyrite throughout the hole. The recovered model shows no chargeable body south of station 50S and a slightly anomalous chargeable body centered at 200S.

Combined Walcott 1987 IP grid & 2006 grids

There is a modest chargeability high of 10-15 mV/V in the central portion of the Walcott 1987 grid centered at station 300S from line 0.1W to 240.1W, which is coincident with the old workings and the historic mine. This high chargeability is imaged to start close to surface and extends to depth.

On the Lone Star East grid, lines 540E, L600E and the northern end of L480E form another area of elevated recovered chargeability. At approximately 100 m below surface, this area broadens and essentially coalesces with the central anomaly on the Walcott 1987 grid. The highest chargeabilities continue to be to be centered on lines 480E, 540E and 600E close to the station 200N as well as the northern ends of the lines from line 480E to 960E. These chargeabilities are the highest of all four grids.

Another area of widespread elevated chargeability is in the Buckland grid where a number of isolated > 10 mV/V chargeability anomalies amalgamate by 100 m depth to form extensive areal coverage. In particular the south end of lines 1100E to 1250E and an area between stations 400 and 500 N on line 600E stand out.

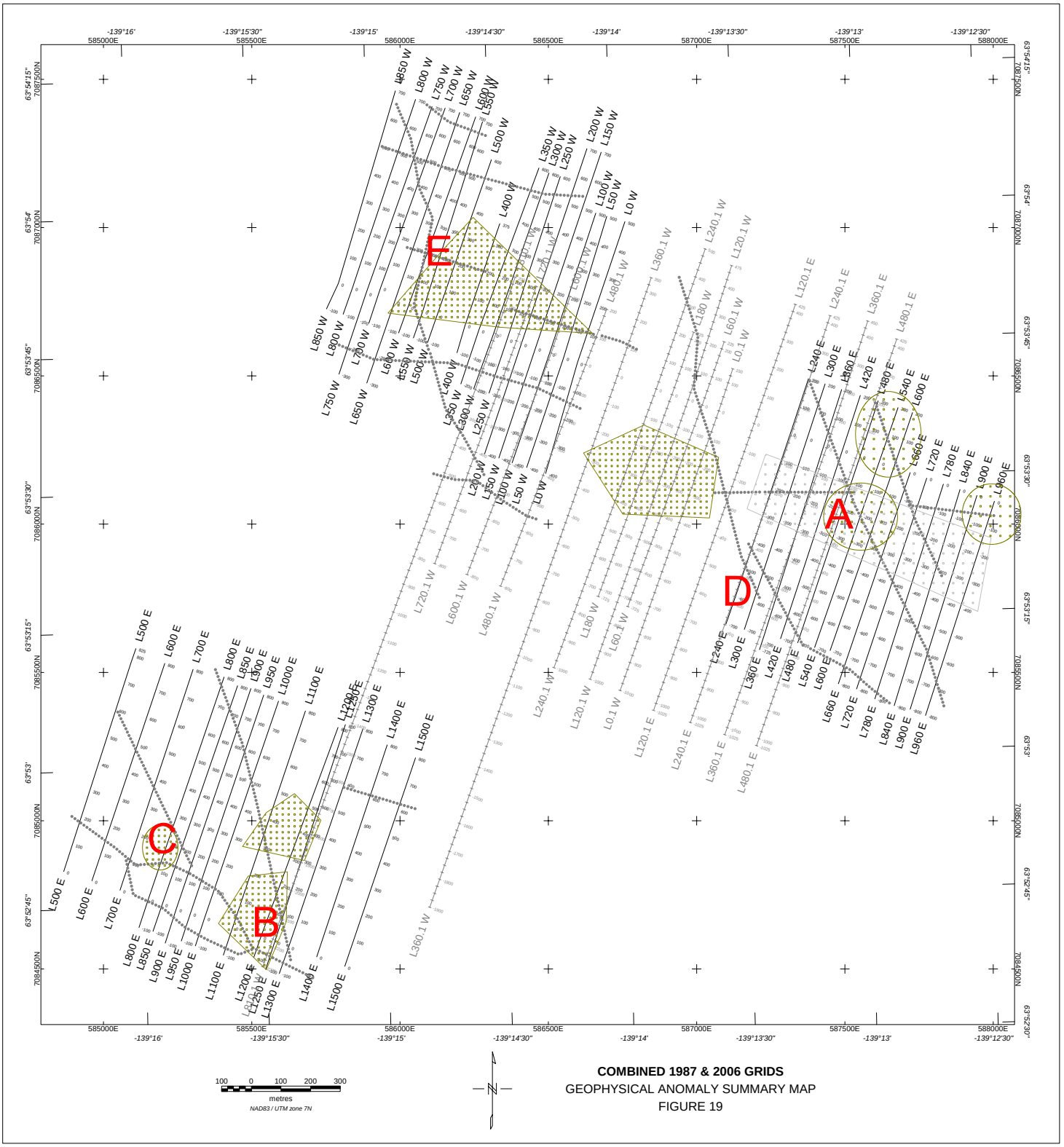
Lastly there are the chargeabilities along line 50W in the Lone Star West grid which attract attention however, as described above, the details of the recovered model on L50W of the Lone Star West grid should be viewed with caution.

There is a continuation of the NNW-SSE conductivity feature images in the 2006 Lone Star East grid which runs from L480E, 700S to L240E, 500S on the 2006 grid and then continues through to the north end of L240.1W from the 1987 survey, possibly as a second parallel structure. In addition there is a continuation of the ESE-NWN structures images on the Lone Star West grids at station 100N on line 360.1W. There is another ESE-NWN linear feature from L480.1W to L810.1W at approximately 500S as well as a continuation of the predominantly NS feature on the Lone Star West grid, which ends at line 720.1W, station 425S.

11.0 CONCLUSIONS AND RECOMMENDATIONS

Figure 19 is a compilation of the conductive trends and chargeability anomalies featured in previous figures.

- The IP / resistivity surveys identified a number of conductive trends that fall within 2 general directional sets suggesting structural control. In general there are not chargeability trends associated with the conductive features.



COMBINED 1987 & 2006 GRIDS
GEOPHYSICAL ANOMALY SUMMARY MAP
FIGURE 19

- The main chargeability high from the 1987 Walcott IP survey lies over the main Lone Star zone and has been the hub of past exploration. It is immediately adjacent to the conductive trend labeled “D” in Figure 19, which corresponds well to the reported area of altered felsic and volcanic schists, identified by Kennecott’s 1993 exploration and indicated to host mineralization.

- Significant chargeability anomalies were identified on the Buckland grid: the anomaly at L800E, 200N (C on Figure 19), the high chargeabilities on lines 1000E and 1100E between 200N and 300N and the high chargeabilities on the south ends of lines1200E and 1250E (B on Figure 19). The chargeability anomalies labeled B & C on Figure 19 are of particular interest because of their proximity to convergence zones of conductivity trends, suggesting structurally controlled mineralization. These targets are recommended drill targets.

- The Lone Star East grid showed a band of slightly elevated chargeability, which may be consistent with stratabound mineralization if the trend matches fold axes. There is further, extensive, elevated chargeability through the north east part of the grid, particularly on lines 420E, 480E, 540E and 600E. A particularly favorable target is indicated by “A” on Figure 19 where there is a convergence of conductive features coincident with elevated chargeability superimposed on the weak band of elevated chargeability. This is a recommended drill target.

- The Lone Star West grid has had a number of holes drilled on the eastern edge of the grid, but none into any of the larger chargeability anomalies. The character of the chargeability on the grid is very discontinuous with most of the highest apparent chargeability data not being well represented by the model. Target E on Figure 19 shows proximal elevated chargeability coincident with convergent conductivity trends. This is a recommended secondary drill target.

Respectfully submitted,
AURORA GEOSCIENCES LTD.

Dave Hildes P. Geo, Ph. D.
Geophysicist

REFERENCES

Oldenburg, D.W. and Y. Li (1994) Inversion of induced polarization data. Geophysics Vol. 59. No. 9. pp. 1327-1341.

Liverton, T. & W. Mann, 2004. Geological Mapping, Rock and Soil Geochemistry, Trenching and Bulk Sampling on the Lone Star (Klondike) Property. Unpublished report for Klondike Star Mineral Corp & Klondike Gold Corp. pp. 87 + appendices.

Sumner, J.S. (1976) Principles of Induced Polarization for Geophysical Exploration. New York: Elsevier.

Telford, W.M., L.P. Geldart and R.E. Sheriff (1990) Applied Geophysics (2nd Edition) New York: Cambridge University Press

Walcott, P.E. and Associates, 1987. A report on magnetic and induced polarization surveying. Unpublished report for Dawson Arbor Resources Ltd. pp.14 + appendices.

APPENDIX A - CERTIFICATE

I, David Henry Degast Hildes, Ph. D., with residence address in Whitehorse, Yukon Territory do hereby certify that:

1. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, license #29887

2. I am a graduate of the Queens University of Ontario with a B.Sc. (Honours) degree in Chemical Physics obtained in 1991 and a graduate of the University of British Columbia with a Ph. D. in Geophysics obtained in 2001.

3. I have been actively involved in mineral exploration since 1999 and am now employed as a geophysicist with Aurora Geosciences Ltd.

4. I am the project manager for the work described in this report.

Dated this ____ of _____, 2007 in Whitehorse, Yukon.

Respectfully Submitted,

Dave H. D. Hildes Ph. D., P.Geo.

APPENDIX B – SURVEY LOG

Klondike Star- Eldorado IP (KDS-06-02-YT) DAILY OPERATIONS LOG

Date	Survey /standby	Rx	Tx	Current	Cables	Weather	Grid	Lines	From	To	Line-km	Notes
22-Aug-06	Mobe					Sunny 20 C	Lone Star East					We left Whitehorse at 11am and arrived in Dawson at 4pm. Andre drove the truck and Steve and Sebastian drove their own vehicle.
23-Aug-06	Survey	Andre	Dan	Seb	Steve	Cloudy 10C	Lone Star East	240	700S	200N	0.9	We started on east grid of 3 going north, with the transmitter in the morning. We started at 10am and finished at 6pm
							Lone Star East	300	700S	500S	0.2	
24-Aug-06	Survey	Andre	Dan	Seb	Steve	Sunny, 15C	Lone Star East	300	500S	200N	0.7	
							Lone Star East	360	725S	0N	0.725	
25-Aug-06	Survey	Andre	Dan	Steve	Seb	Rainy 5C	Lone Star East	360	0N	200N	0.2	It rained all morning and the cables got wet, so we took them back the camp and dried them out, and got a few more hours in once the weather broke at around 4pm, then we finished at around 7pm
							Lone Star East	420	700S	200N	0.9	
26-Aug-06	Survey	Andre	Dan	Steve	Seb	Cloudy 15C	Lone Star East	480	700S	200N	0.9	We started at around 8h30 am and finished at 6h30 pm
							Lone Star East	540	700S	400S	0.3	
27-Aug-06	Survey	Andre	Steve	Seb	Dan	Sunny 15C	Lone Star East	540	400S	200N	0.6	We started at 8h30 and finished around 6h30
							Lone Star	600	700S	400S	0.3	

Date	Survey /standby	Rx	Tx	Current	Cables	Weather	Grid	Lines	From	To	Line-km	Notes
							East					
28-Aug-06	Survey	Andre	Steve	Seb	Dan	Sunny 20 C	Lone Star East	600	400S	200N	0.6	We started at around 8h30 and finished around 6h30
							Lone Star East	660	800S	0N	0.8	
29-Aug-06	Survey	Andre	Seb	Dan	Steve	Sunny 20 C	Lone Star East	720	800S	0N	0.8	Started around 8h30. Finished around 5h30pm
							Lone Star East	780	800S	0N	0.8	
30-Aug-06	Survey	Andre	Seb	Dan	Steve	Sunny 20 C	Lone Star East	840	800S	0N	0.8	We started around 8h30 and finished around 6h30pm
							Lone Star East	900	800S	0N	0.8	
31-Aug-06	Survey	Andre	Dan	Steve	Seb	Rain 10 C	Lone Star East	960	800S	0N	0.8	
1-Sep-06	Survey	Andre	Dan	Steve	Seb	Mixed sun and rain 15C	Lone Star West	800	100S	700N	0.8	
							Lone Star West	700	100S	400N	0.5	
2-Sep-06	Day off											
3-Sep-06	Day off											
4-Sep-06	Survey	Andre	Steve	Seb	Dan	Sunny 15 C	Lone Star West	700	400N	700N	0.3	
							Lone Star West	600	100S	700N	0.8	
							Lone Star West	500	100S	175N	0.275	

Date	Survey /standby	Rx	Tx	Current	Cables	Weather	Grid	Lines	From	To	Line-km	Notes
5-Sep-06	Survey	Andre	Steve	Seb	Dan	Mixed sun and rain 10C	Lone Star West	500	175N	600N	0.425	
							Lone Star West	400	100S	375N	0.475	
							Lone Star West	300	200S	225N	0.425	
6-Sep-06	Survey	Andre	Seb	Dan	Steve	Mixed sun and rain 10C	Lone Star West	300	225N	600N	0.375	
							Lone Star West	200	400S	700N	1.1	
7-Sep-06	Survey	Andre	Seb	Dan	Steve	Sunny 15C	Lone Star West	100	400S	500N	0.9	
							Lone Star West	0	400S	50S	0.35	
8-Sep-06	Survey	Andre	Dan	Steve	Seb	Sunny 15C	Lone Star West	0	50S	500N	0.55	Steve wasn't feeling good in the afternoon-- he rested up so we only had 3 guys for the rest of the day
							Buckland	1100	800N	500N	0.3	
9-Sep-06	Survey	Andre	Dan	Steve	Seb	Sunny 15C	Buckland	1100	500N	100S	0.6	
							Buckland	1200	800N	100S	0.9	
10-Sep-06	Survey	Seb	Steve	Andre	Dan	Sunny 20C	Buckland	1000	800N	100S	0.8	
							Buckland	700	800N	500N	0.3	
11-Sep-06	Survey	Andre	Steve	Seb	Dan	Rainy 15C	Buckland	700	500N	0	0.5	I couldn't find the 800N picket until 525N when I came across it so I started the line 25m further N than I should have
							Buckland	500	825N	200N	0.625	
12-Sep-06	Survey	Andre	Seb	Dan	Steve	Sunny	Buckland	500	200N	0	0.2	

Date	Survey /standby	Rx	Tx	Current	Cables	Weather	Grid	Lines	From	To	Line-km	Notes
						15C	Lone Star West	50	400S	500N	0.9	
13-Sep-06	Survey	Andre	Seb	Dan	Steve	Sunny 15C	Lone Star West	150	400S	700N	1.1	
							Lone Star West	250	200S	600N	0.8	
14-Sep-06	Survey	Andre	Dan	Steve	Seb	Sunny15 C	Lone Star West	550	100S	700N	0.8	
							Lone Star West	850	100S	400N	0.5	
15-Sep-06	Survey	Andre	Dan	Steve	Seb	Sunny 15C	Lone Star West	850	400N	700N	0.3	
							Lone Star West	850	100S	700N	0.8	
							Lone Star West	750	300S	0	0.3	
16-Sep-06	Survey	Andre	Steve	Seb	Dan	Cloudy 5C	Lone Star West	750	0	700N	0.7	
							Lone Star West	650	300S	700N	1	
17-Sep-06	Survey	Andre	Steve	Seb	Dan	Cloudy with some rain	Lone Star West	350	200S	600N	0.8	
18-Sep-06	Survey	Andre	Seb	Dan	Steve	Sunny	Buckland	600	800N	0	0.8	
							Buckland	800	800N	100S	0.9	
19-Sep-06	Survey	Andre	Seb	Dan	Steve	Cloudy	Buckland	900	800N	100S	0.9	
							Buckland	1300	800N	500N	0.3	

Date	Survey /standby	Rx	Tx	Current	Cables	Weather	Grid	Lines	From	To	Line-km	Notes
20-Sep-06	Survey	Andre	Seb	Steve	Cody	Cloudy	Buckland Buckland	1300 1400	500N 800N	100S 0	0.6 0.8	
21-Sep-06	Survey	Andre	Seb	Steve	Cody	Sunny	Buckland	1500	800N	0	0.8	
22-Sep-06	Survey	Andre	Steve	Cody	Seb	Partly rainy and sunny	Buckland	1250	800N	100S	0.9	
23-Sep-06	Survey	Andre	Steve	Cody	Seb	sunny	Buckland Buckland	950 850	800N 800N	100S 500N	0.9 0.3	
24-Sep-06	Survey	Andre	Steve	Cody	Seb	sunny	Buckland	850	500N	100S	0.6	We finished the line around 1pm, and finished cleaning up all the wires and stuff by 3h30, and then started packing up packing up
25-Sep-06	Mobe out											

total Km's		
	Lonestar East	11.125
	lonestar West	15.250
	Buckland	12.125

APPENDIX C – INSTRUMENT SPECIFICATIONS

I. OVERVIEW

I.1. GENERALITIES

The ELREC Pro unit is a receiver designed for high productivity mineral exploration
It allows to measure primary voltage and decay voltage curve values, giving thus resistivity and chargeability (IP) data.
This unit is designed to be used with an *IRIS instruments* external transmitter, called VIP.

The main technical characteristics of this receiver are the following ones:
- 10 reception dipoles available to carry out some measurements with high productivity in the field
- 20 partial chargeability windows available to measure the discharge phenomena with an high accuracy.
- a 1 µV resolution on the primary voltage allowing to obtain very accurate measurements.
- a large graphic LCD display for user-friendly operating allowing to show the data in real time numerically and graphically.

The ELREC Pro unit can be also used in automatic switching mode (in that case, some additional external *Switch Plus* boxes have to be used) for intensive measurements.

I.2. DESCRIPTION

I.2.1. Front panel

All controls are located on the front panel. This one features:
- Graphic LCD (128x140 dots) made of 16 lines by 40 characters
- Eleven plugs for connecting the potential electrodes
- Plugs "+" and "-" for the external battery connection
- Three pins plug (RS232 standard port) for the serial link cable connection
- Four pins plug for internal battery charger connection
- Keyboard with 16 keys

3/61

ANNEX 3: IP PARAMETERS AND CHARGEABILITY

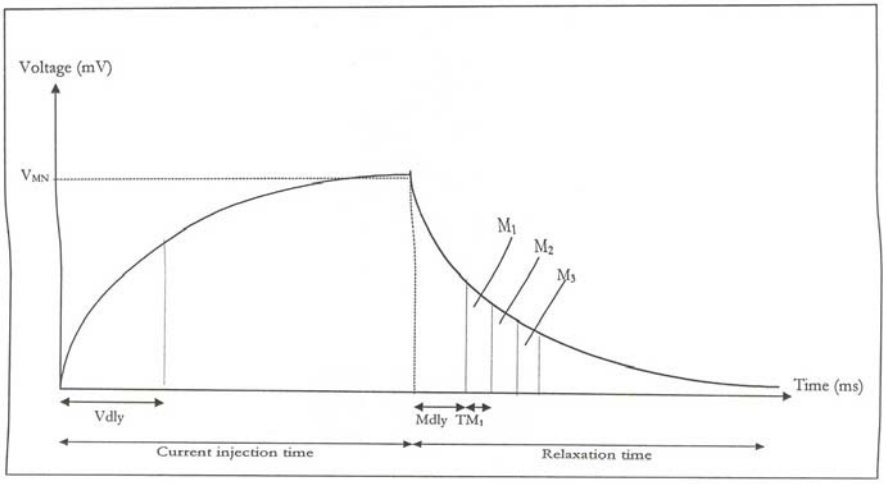
The partial chargeabilities measurements (M_i) and the average global one deduced (M_g) give some information regarding the ability of the soil to charge itself due to a current flow.
The partial chargeability of the window "i" is measured thanks to the following formula:

$$M_i = \int_{TM_i} Vdt \,/\, TM_i.V_{MN}$$

And the global chargeability is computed thanks to the following formula:

$$M_g = \sum_{i=1}^{n} (M_i.TM_i) \,/\, \sum_{i=1}^{n} TM_i \qquad \text{(n: number of IP windows)}$$

The discharge phenomena observed during the relaxation time can be described according to the following curve:



With the ELREC Pro, up to 20 IP windows can be used to define the decay curve.

57/61

The number of IP windows available for the measurement depends on the type of IP mode and on the current injection time:

⇒ **Current injection times** available (cf. II.1.5): 500 ms - 1 s - 2 s - 4 s - 8 s

⇒ Types of **IP mode** available (cf. II.1.5): Arithmetic – Semi logarithmic – Logarithmic Cole-Cole - Programmable

For a given current injection time and IP mode, the program will choose automatically the IP parameters (Mdly, Vdly, TM_i) that will be used for the measurement.

Note:

The programmable mode is a mode where 20 fully programmable windows are available. The operator has to select the delay time (Mdly) with a minimum of 20 ms and the width of each partial window (TM_i) with a minimum of 10 ms. Vdly is automatically determined by the injection time chosen.

In the following tables, the preset TM_i values are given for each IP mode (1 means TM_1 ...):

• **Time = 500 ms**

Mode	Vdly	Mdly	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Arith.	280	60	40	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Semi	280	40	40	80	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Log.	280	160	80	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cole	280	160	80	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

• **Time = 1000 ms**

Mode	Vdly	Mdly	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Arith.	580	120	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Semi	580	40	20	20	20	20	20	20	20	20	40	40	40	40	40	40	80	80	80	80	80	80
Log.	580	160	120	220	420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cole	580	20	10	20	20	20	20	20	30	30	30	40	40	40	50	50	50	60	60	70	80	90

• **Time = 2000 ms**

Mode	Vdly	Mdly	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Arith.	1260	240	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Semi	1260	40	40	40	40	40	40	40	80	80	80	80	80	80	80	160	160	160	160	160	160	160
Log.	1260	160	120	220	420	820	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cole	1260	20	20	30	30	30	40	40	50	60	70	80	90	100	110	120	130	140	150	160	180	200

• **Time = 4000 ms**

Mode	Vdly	Mdly	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Arith.	2620	480	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Semi	2620	160	80	80	80	80	80	80	80	80	160	160	160	160	160	160	320	320	320	320	320	320
Log.	2620	160	120	220	420	820	1620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cole	2620	20	40	50	60	70	80	90	100	110	120	140	160	180	200	220	250	280	320	380	450	530

• **Time = 8000 ms**

Mode	Vdly	Mdly	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Arith.	5340	960	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320
Semi	5340	320	160	160	160	160	160	160	160	160	320	320	320	320	320	320	640	640	640	640	640	640
Log.	5340	160	120	220	420	820	1620	3220	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cole	5340	20	40	60	80	100	120	150	180	220	250	280	320	360	400	450	500	580	700	850	1010	1180

About the **IP values type**, note that the changing "raw (R) ⇔ normalised (N)" can be realised after the acquisition.

The normalization allows to homogenize the data that have been obtained with various injection and integration times. This is made with respect to a standard decay curve, which is the one obtained with the following parameters:

Mode: Logarithmic
Injection time: 2000 ms
Vdly: 1260 ms
Mdly: 160 ms
TM_1: 120 ms
TM_2: 220 ms
TM_3: 420 ms
TM_4: 820 ms

The coefficients to multiply, allowing to go from a type to the other one, are indicated in the following tables:

42

ANNEX 7: SPECIFICATIONS

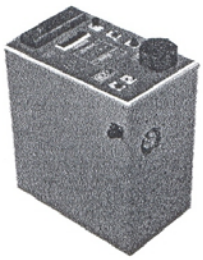
Technical:

- Input impedance: 10 Mohm
- Input overvoltage protection up to 1000V
- Automatic SP bucking with linear drift correction
- Internal calibration generator for a true calibration on request of the operator
- Internal memory: 3200 dipoles reading
- Automatic synchronization and re-synchronization process on primary voltages signals whenever needed
- Proprietary intelligent stacking process rejecting strong non-linear SP drifts
- Common mode rejection: more than 100 dB (for Rs = 0)
- Self potential (Sp) : range: -15V - +15V
  : resolution: 0.1 mV
- Ground resistance measurement range: 0.1 - 100 kohms
- Primary voltage : range: 10µV - 15V
  : resolution: 1µV
  : accuracy: typ. 0.3%
- Chargeability : resolution: 10µV/V
  : accuracy: typ. 0.6%

General:

- Dimensions: 31x21x25 cm
- Weight (with the internal battery): 9 kg
- Operating temperature range: -30°C - 70°C
- Case in fiber-glass for resisting to field shocks and vibrations

Instrumentation GDD



The Induced Polarization Transmitter

TxII-1800 and TxII-3600 Models

For Fast, High-Quality Induced Polarization Surveys in All Field Conditions

Flyers high / low resolution TxII/1 (63 KB) / TxII/2 (1 MB)

At Last, a High-Quality Affordable IP Transmitter

TxII-1800 Model, 1800 watts

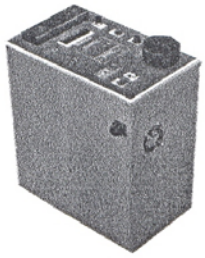
Its high power, up to 10 amperes, combined with its light weight and a 21 kg/2000W Honda generator makes it particularly suitable for dipole-dipole Induced Polarization surveys.

Features

- **Protection against short circuits even at zero (0) ohms**
- **Output voltage range: 150 V to 2400 V / 14 steps**
- **Power source: 120 V, Optional: 220 V / 50/60 Hz**
- **Operates from a light backpackable standard 120 V generator**
- **Up to three years warranty**

This backpackable 1800 watts induced polarization (I.P.) transmitter works from a standard 120 V source and is well adapted to

CONTENTS



rocky environments where a high output voltage of up to 2400 V is needed. Moreover, in highly conductive overburden, at 150 V, the highly efficient TxII-1800 watts transmitter is able to send a current of up to 10 amperes. By using this I.P. transmitter, you obtain fast and high-quality I.P. readings even in the most difficult conditions.

TxII-3600 Model, 3600 watts

Its high power, up to 10 amperes, combined with a Honda generator makes it particularly suitable for pole-dipole Induced Polarization surveys.

Features

- **Protection against short circuits even at zero (0) ohms**
- **Output voltage range: 150 V to 2400 V / 14 steps**
- **Power source: 220 V, 50/60 Hz**
- **Operates from a standard 220 V generator**
- **Up to three years warranty**

This 3600 watts induced polarization (I.P.) transmitter works from a standard 220 V source and is well adapted to rocky environments where a high output voltage of up to 2400 V is needed. Moreover, in highly conductive overburden, at 150 V, the highly efficient TxII-3600 watts transmitter is able to send a current of up to 10 amperes. By using this I.P. transmitter, you obtain fast and high-quality I.P. readings even in the most difficult conditions.

Specifications

General	
Size TxII-1800	21 x 34 x 39 cm
Size TxII-3600	21 x 34 x 50 cm
Weight TxII-1800	approx. 20 kg
Weight TxII-3600	approx. 35 kg

Operating temperature	-40°C to 65°C
Electrical	
Used for time-domain IP	2 sec. ON 2 sec. OFF
Time Base	1-2-4-8 sec.
Output current range	0.005 to 10 A
Output voltage range	150 to 2400 V
Power source TxII-1800	Recommended motor/generator set: Standard 120 V / 60 Hz backpackable Honda generator Suggested Models: EU1000iC, 1000 W, 13.5 kg. or EU2000iC, 2000 W, 21.0 kg.
Power Source TxII-3600	Recommended motor/generator set: Standard 220 V, 50/60 Hz Honda generator Suggested Models: EM3500XK1C, 3500 W, 62 kg or EM5000XK1C, 5000 W, 77 kg
Controls	
Power	ON/OFF
Output voltage range switch	150 V, 180 V, 350 V, 420 V, 500 V, 600 V, 700 V, 840 V, 1000 V, 1200 V, 1400 V, 1680 V, 2000 V, 2400 V
Displays	
Output current LCD	reads to ±0,001 A
Very cold weather	standard LCD heater on readout
Protection	Total protection against short circuits even at zero (0) ohms
Indicator lamps **(in case of overload)**	- High voltage ON-OFF - Output overcurrent - Generator over or undervoltage - Overheating - Logic failure - Open loop protection

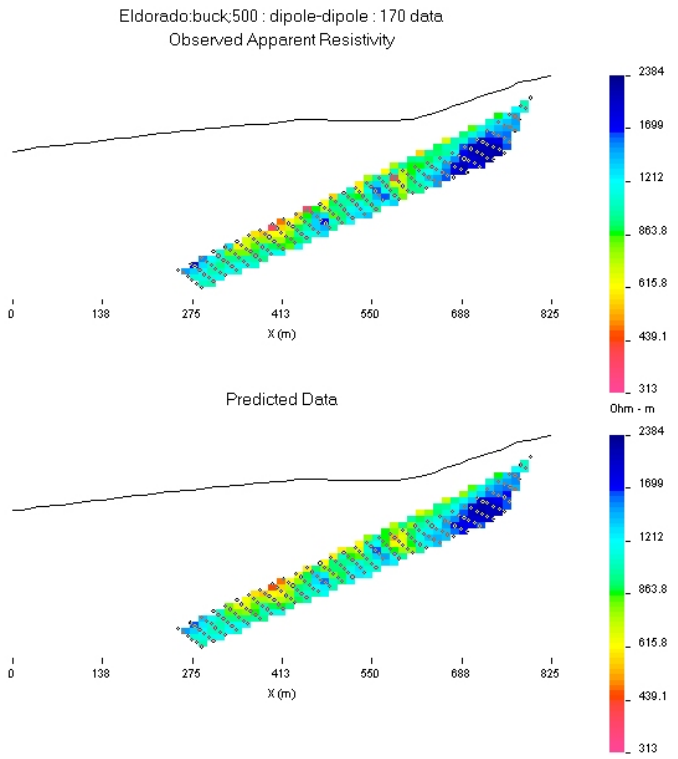
Purchase and Rental Info

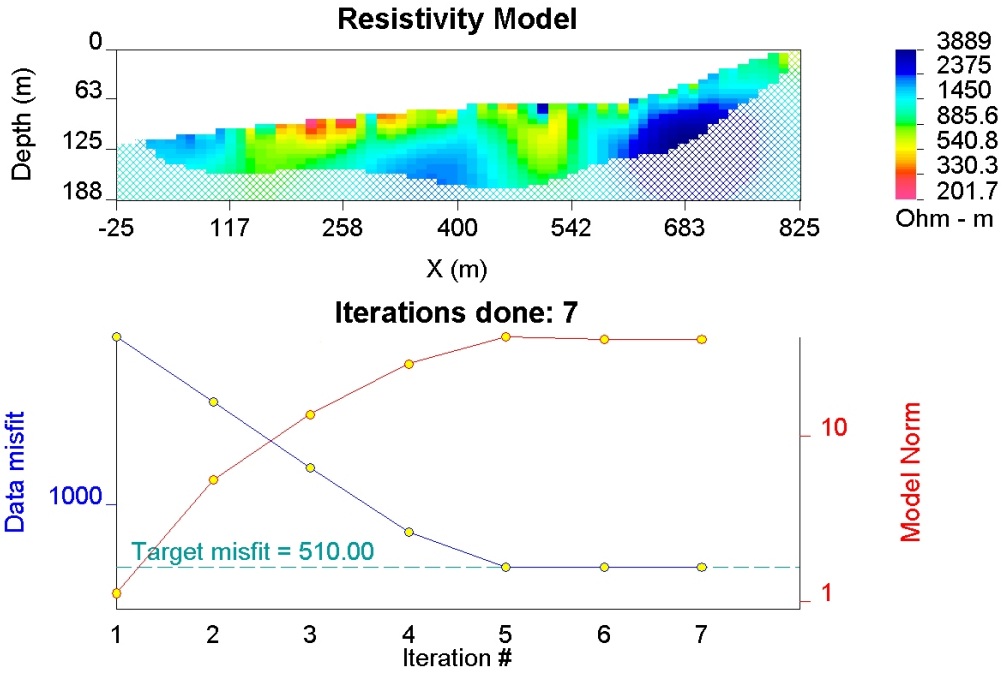
Interested by the TxII-1800 W IP or the TxII-3600 W IP transmitter?

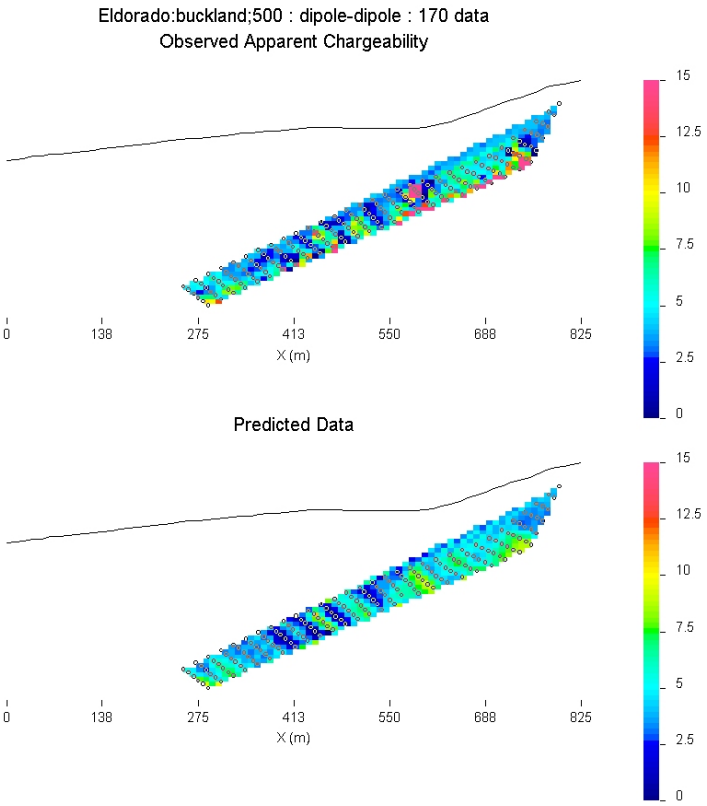
It is simple. You can rent it or purchase it. The choice is yours. Here is some information you

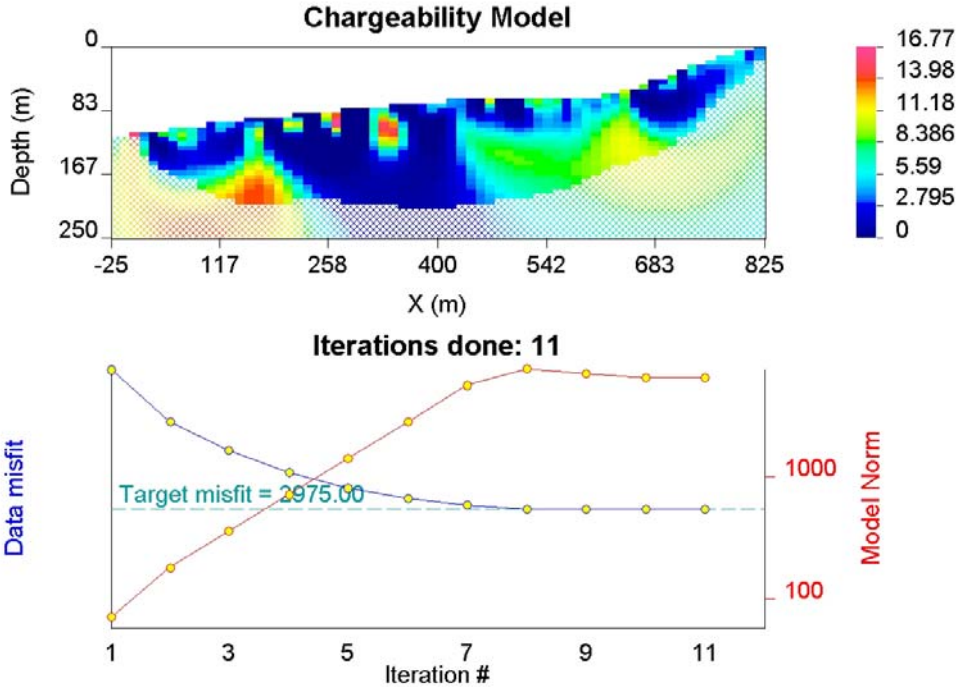
APPENDIX D – INVERSION RESULTS

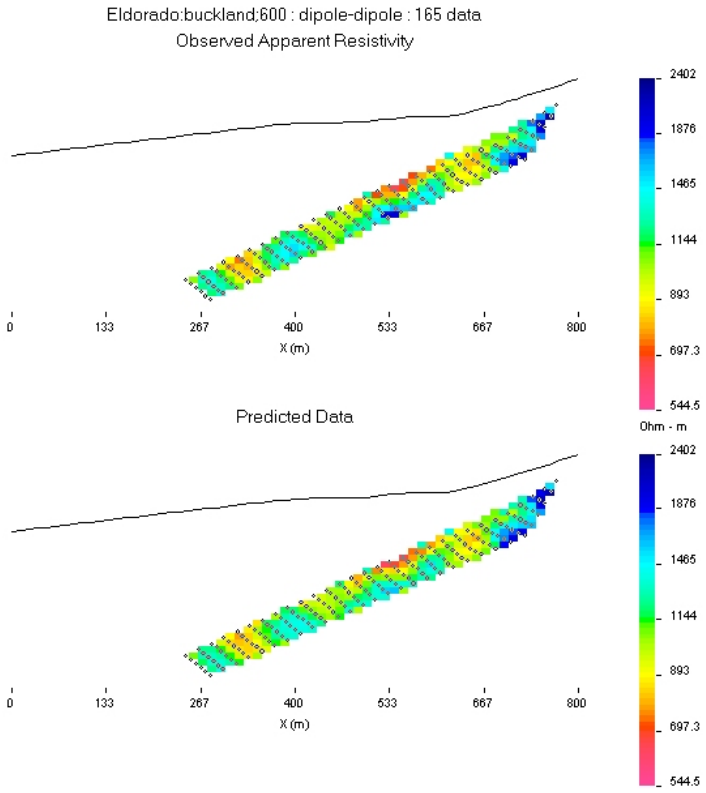
Buckland grid

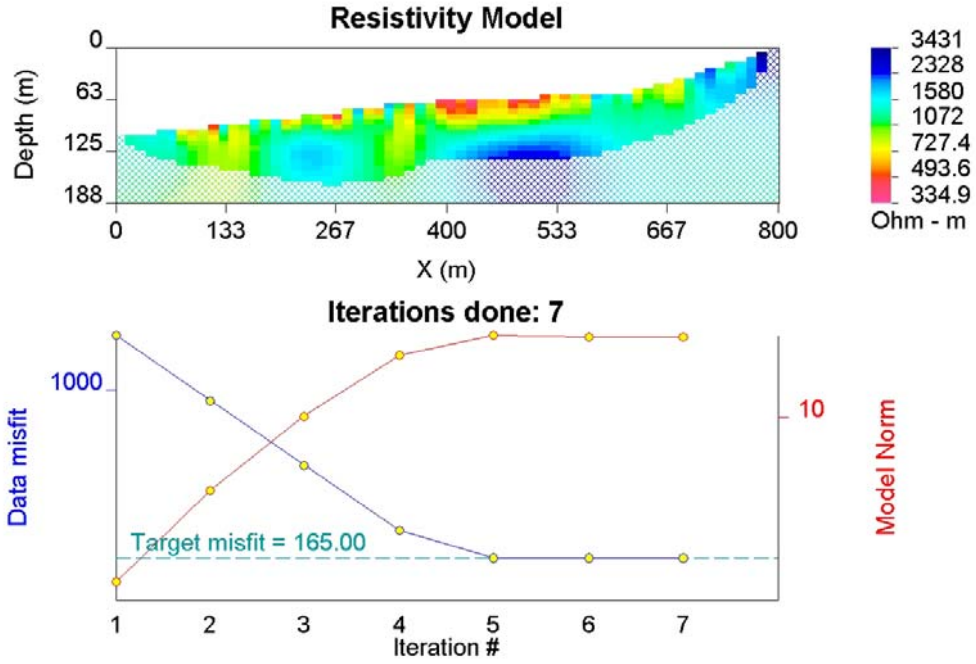


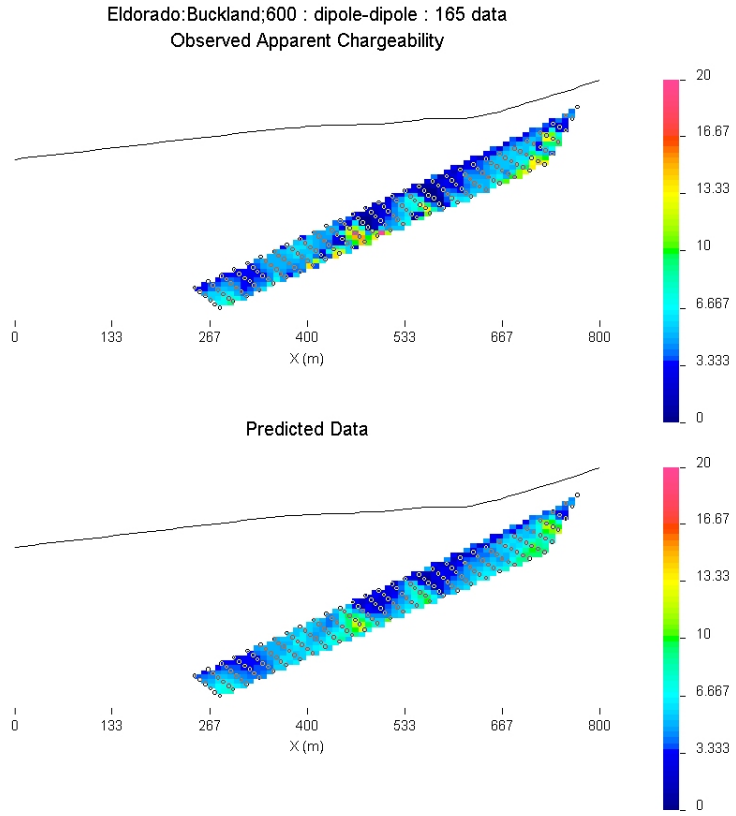


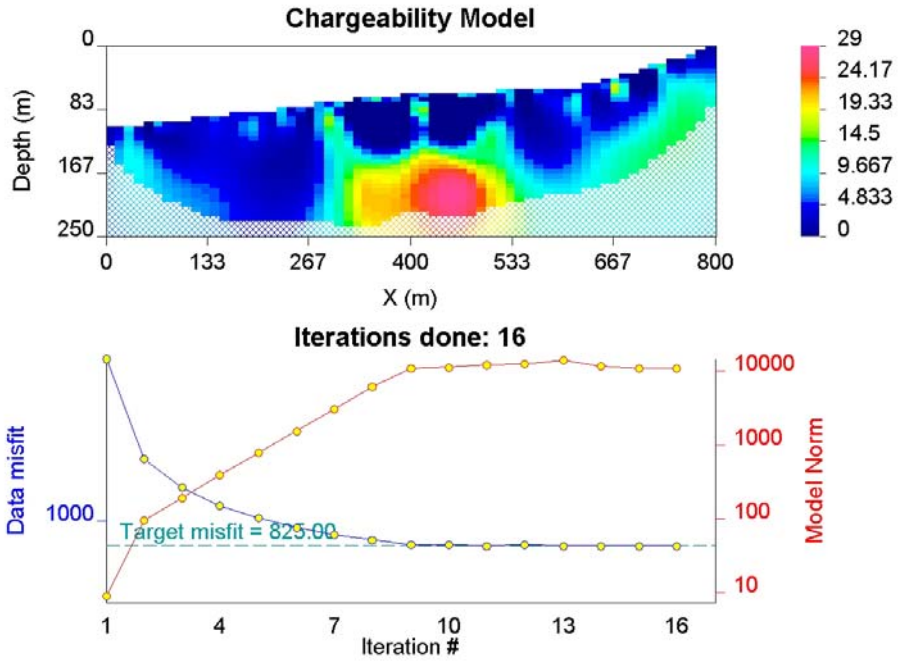

Eldorado:buckland;500 : dipole-dipole : 170 data
Observed Apparent Chargeability
0
138
275
413
550
688
825
X (m)
15
12.5
10
7.5
5
2.5
0
Predicted Data
0
138
275
413
550
688
825
X (m)
15
12.5
10
7.5
5
2.5
0

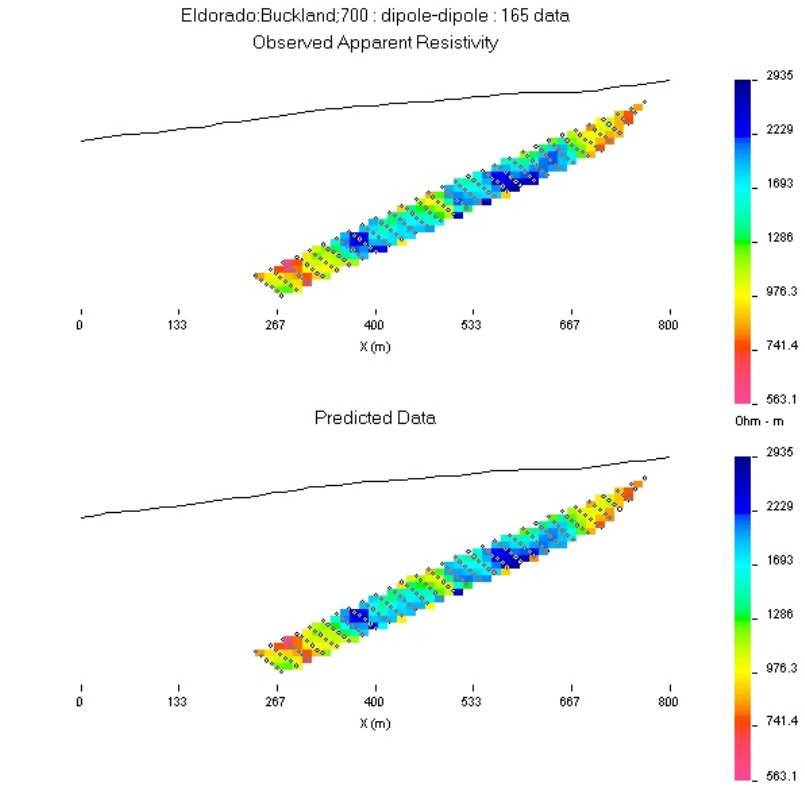

Chargeability Model
Depth (m)
0
83
167
250
-25
117
258
400
542
683
825
X (m)
16.77
13.98
11.18
8.386
5.59
2.795
0
Iterations done: 11
Data misfit
Target misfit = 2975.00
1000
100
Model Norm
1
3
5
7
9
11
Iteration #

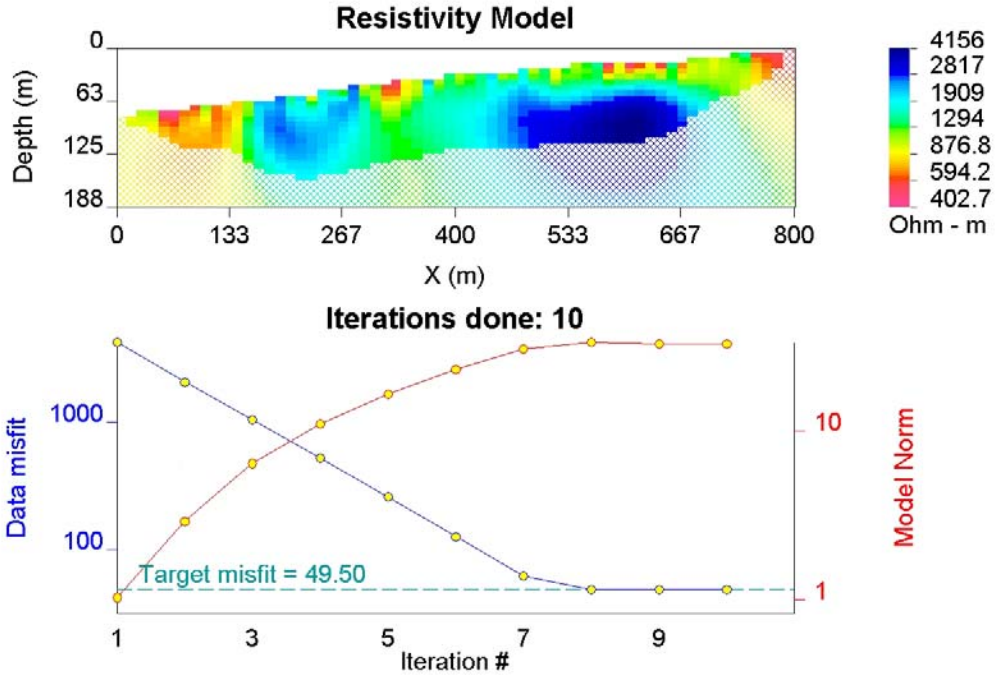

Eldorado:buckland:600 : dipole-dipole : 165 data
Observed Apparent Resistivity
2402
1876
1465
1144
893
697.3
544.5
Ohm - m
0
133
267
400
533
667
800
X (m)
Predicted Data
2402
1876
1465
1144
893
697.3
544.5
0
133
267
400
533
667
800
X (m)

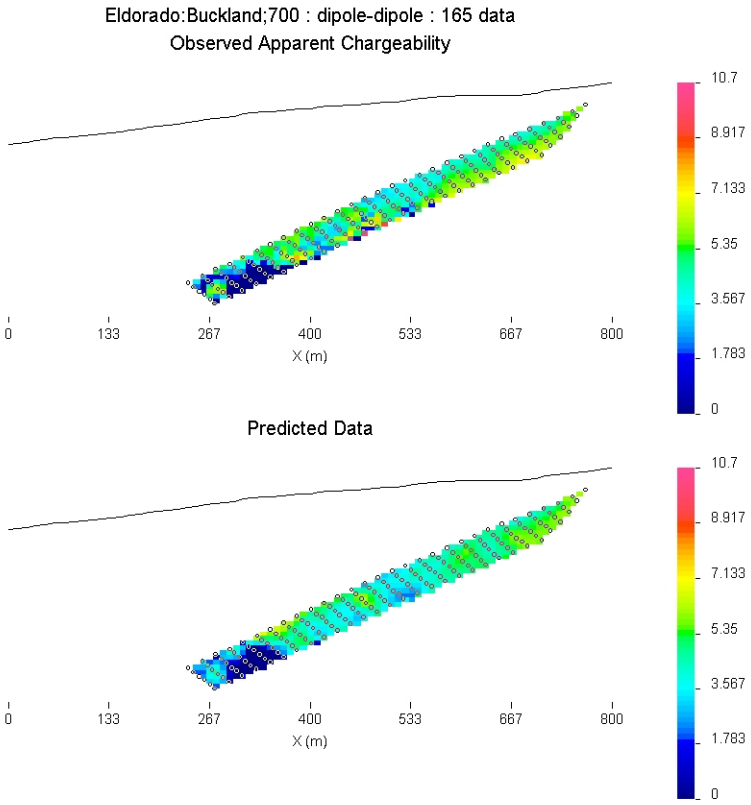

Resistivity Model
Depth (m)
0
63
125
188
0
133
267
400
533
667
800
X (m)
3431
2328
1580
1072
727.4
493.6
334.9
Ohm - m
Iterations done: 7
1000
Data misfit
10
Model Norm
Target misfit = 165.00
1
2
3
4
5
6
7
Iteration #

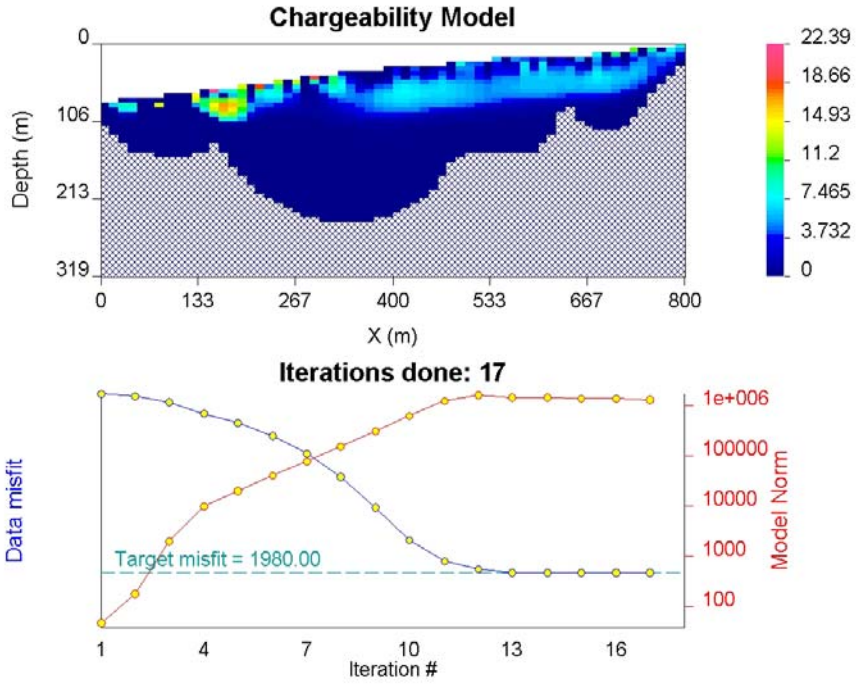

Eldorado:Buckland;600 : dipole-dipole : 165 data
Observed Apparent Chargeability
20
16.67
13.33
10
6.667
3.333
0
0
133
267
400
533
667
800
X (m)
Predicted Data
20
16.67
13.33
10
6.667
3.333
0
0
133
267
400
533
667
800
X (m)

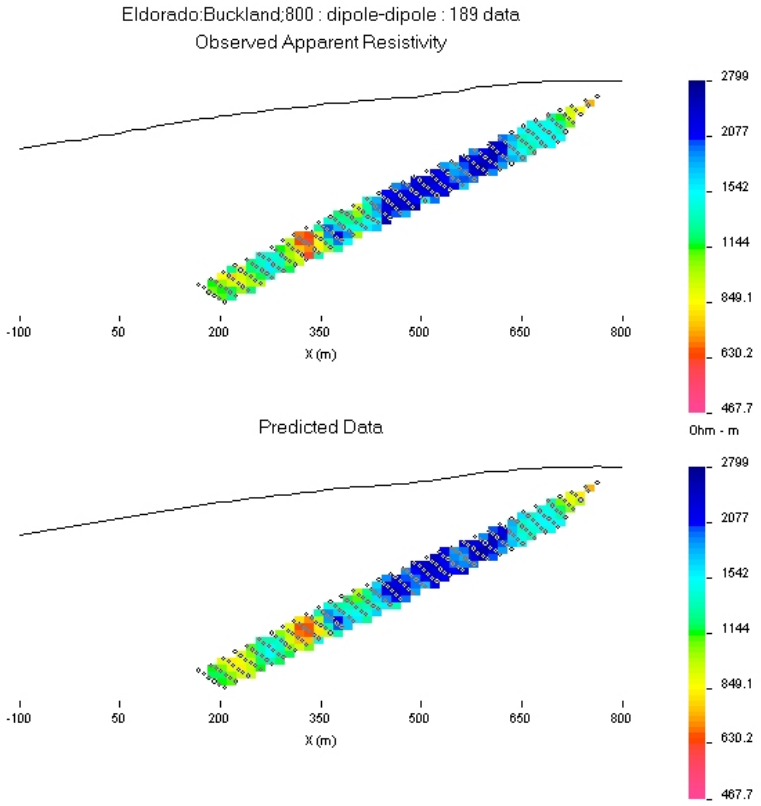

Chargeability Model
Depth (m)
0
83
167
250
0
133
267
400
533
667
800
X (m)
29
24.17
19.33
14.5
9.667
4.833
0
Iterations done: 16
Data misfit
1000
Target misfit = 825.00
10000
1000
100
10
Model Norm
1
4
7
10
13
16
Iteration #

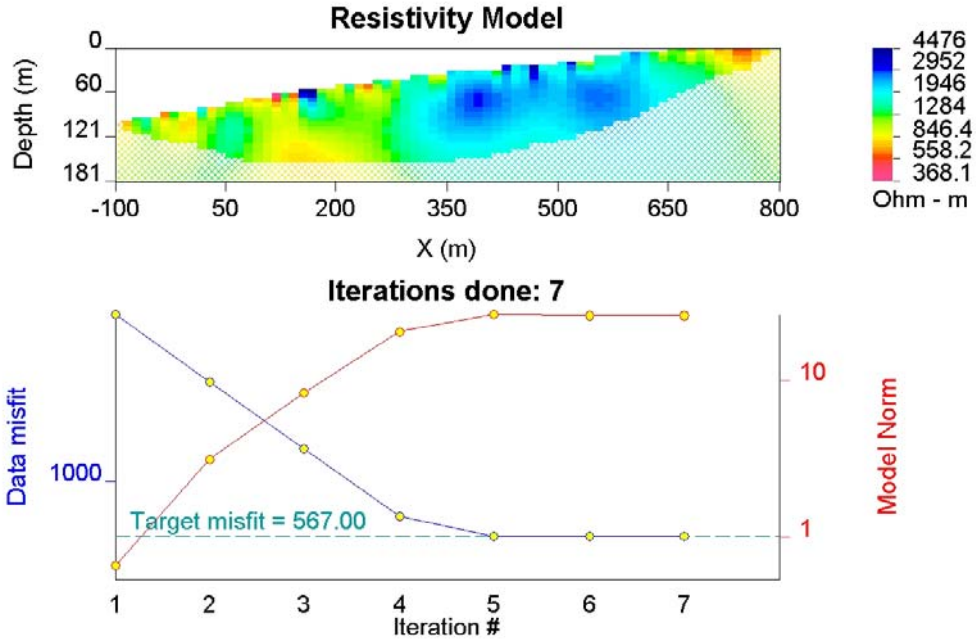

Eldorado:Buckland;700 : dipole-dipole : 165 data
Observed Apparent Resistivity
2935
2229
1693
1286
976.3
741.4
563.1
Ohm - m
0
133
267
400
533
667
800
X (m)
Predicted Data
2935
2229
1693
1286
976.3
741.4
563.1
0
133
267
400
533
667
800
X (m)

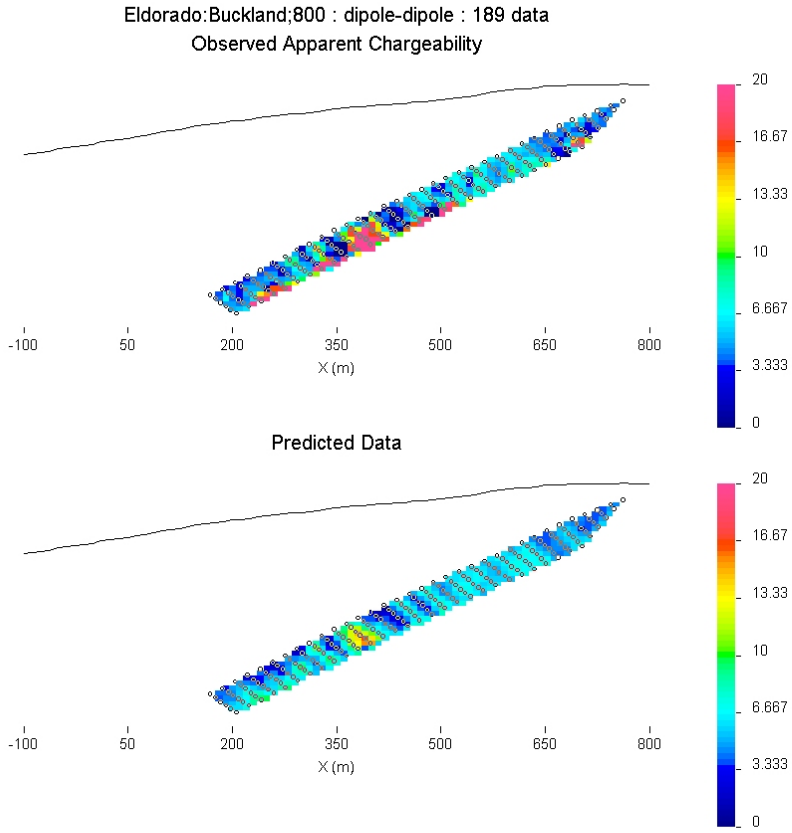

Resistivity Model
Depth (m)
0
63
125
188
0
133
267
400
533
667
800
X (m)
4156
2817
1909
1294
876.8
594.2
402.7
Ohm - m
Iterations done: 10
Data misfit
1000
100
Target misfit = 49.50
10
1
Model Norm
1
3
5
7
9
Iteration #

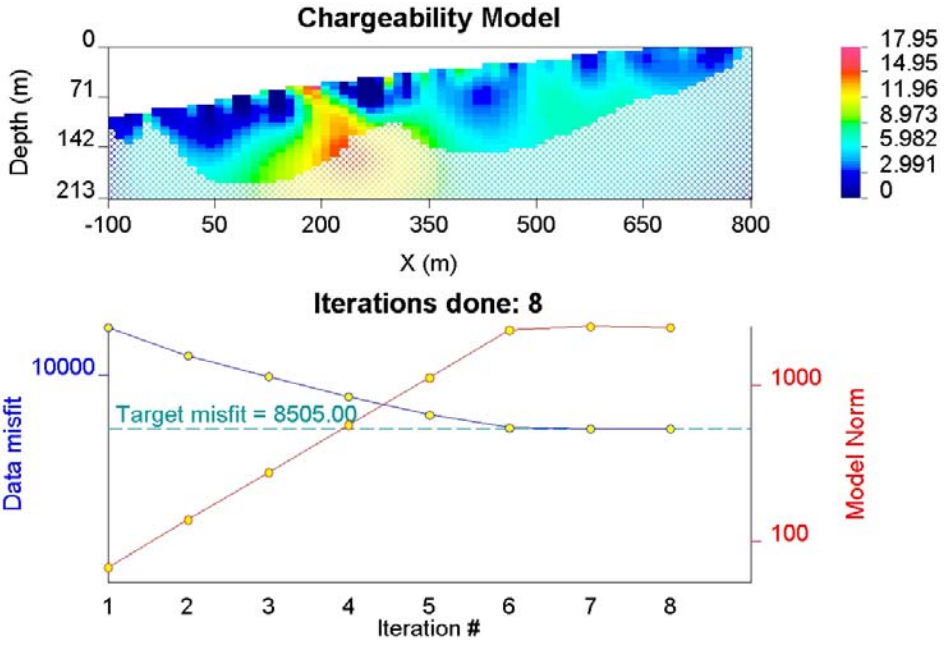

Eldorado:Buckland;700 : dipole-dipole : 165 data
Observed Apparent Chargeability
10.7
8.917
7.133
5.35
3.567
1.783
0
0
133
267
400
533
667
800
X (m)
Predicted Data
10.7
8.917
7.133
5.35
3.567
1.783
0
0
133
267
400
533
667
800
X (m)

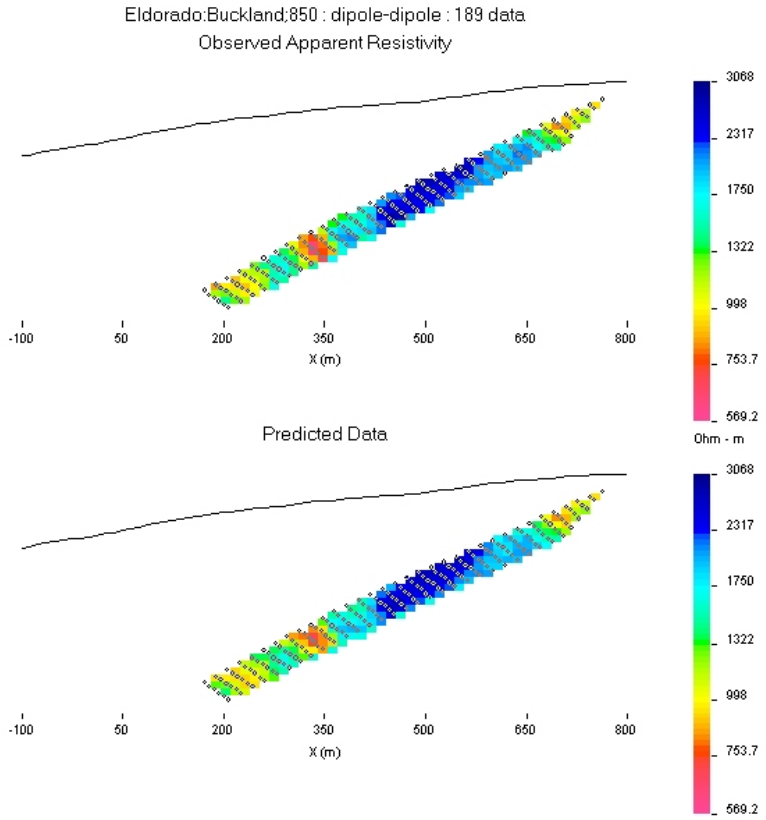

Chargeability Model
Depth (m)
0
106
213
319
22.39
18.66
14.93
11.2
7.465
3.732
0
0
133
267
400
533
667
800
X (m)
Iterations done: 17
Data misfit
Model Norm
Target misfit = 1980.00
1e+006
100000
10000
1000
100
1
4
7
10
13
16
Iteration #

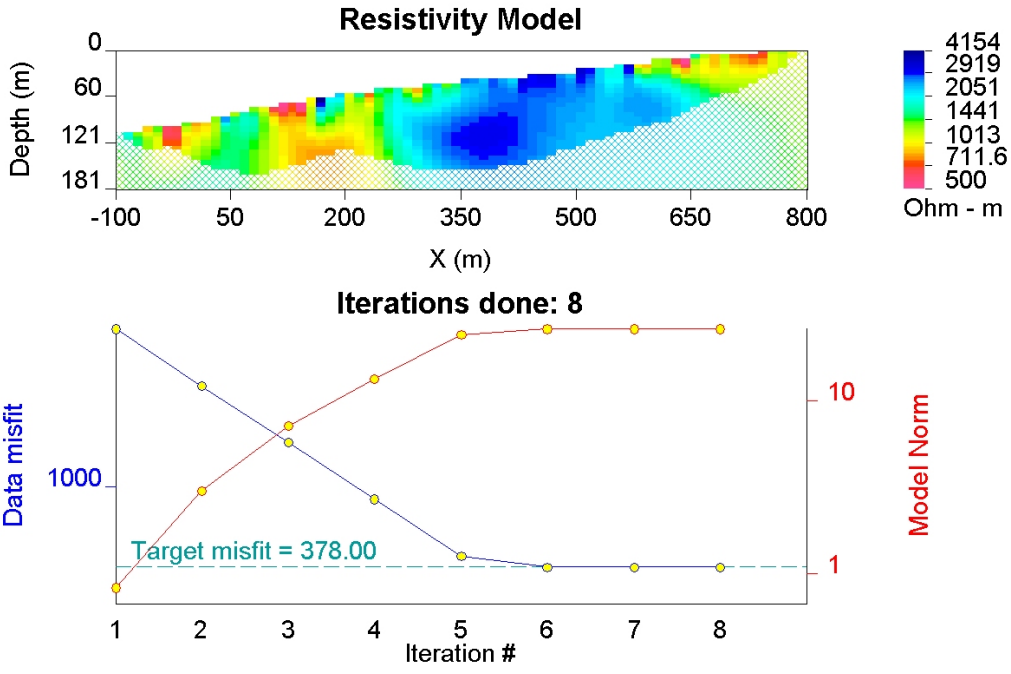

Eldorado:Buckland;800 : dipole-dipole : 189 data
Observed Apparent Resistivity
2799
2077
1542
1144
849.1
630.2
467.7
Ohm - m
-100
50
200
350
500
650
800
X (m)
Predicted Data
2799
2077
1542
1144
849.1
630.2
467.7
-100
50
200
350
500
650
800
X (m)

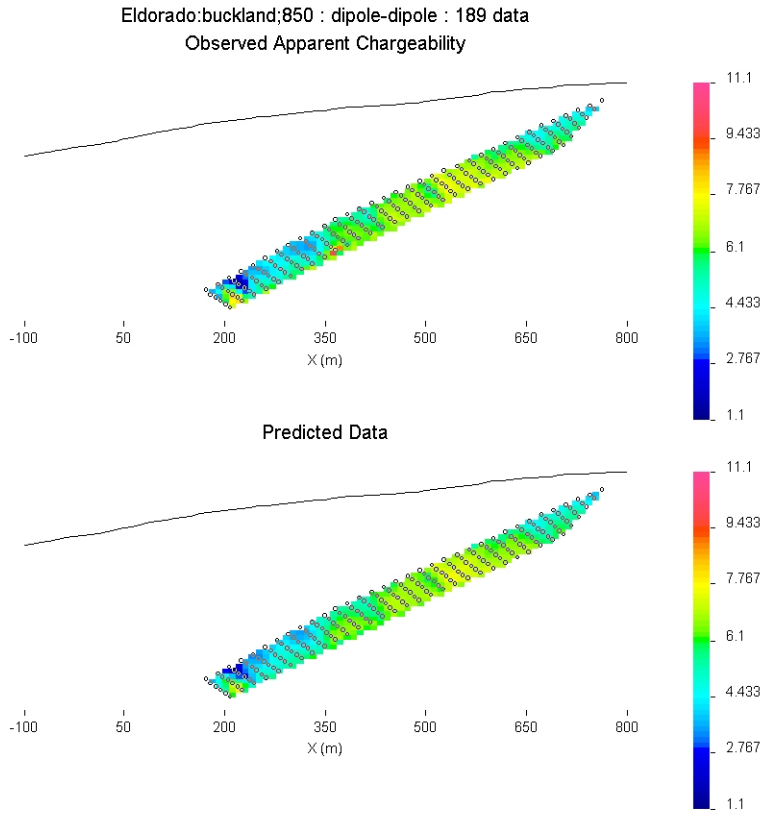

Resistivity Model
Depth (m)
0
60
121
181
-100
50
200
350
500
650
800
X (m)
4476
2952
1946
1284
846.4
558.2
368.1
Ohm - m
Iterations done: 7
Data misfit
1000
Target misfit = 567.00
10
1
Model Norm
1
2
3
4
5
6
7
Iteration #

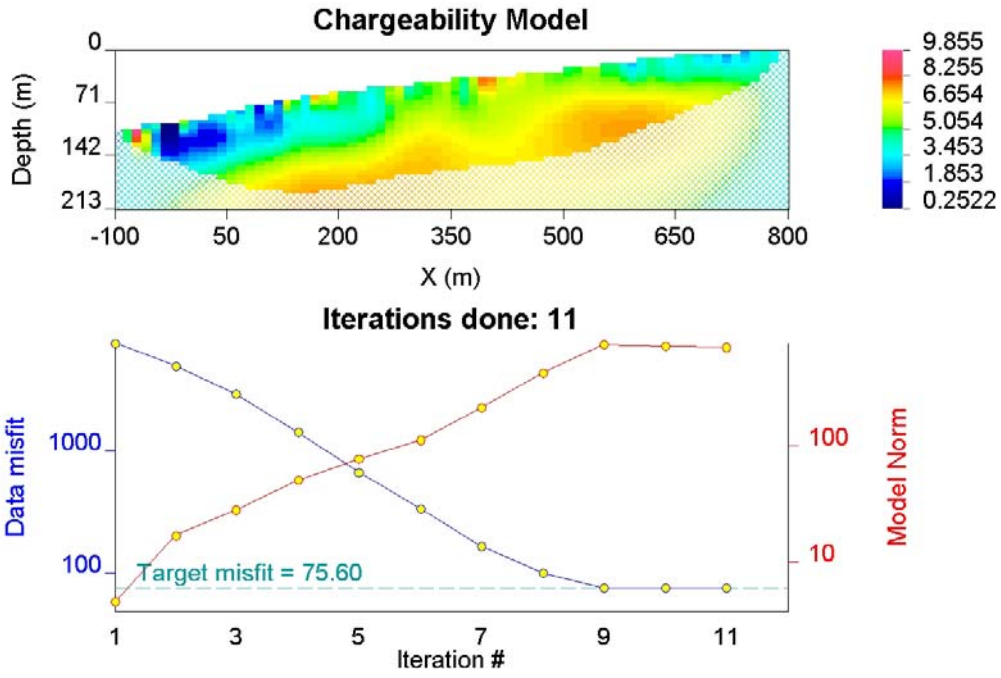

Eldorado:Buckland;800 : dipole-dipole : 189 data
Observed Apparent Chargeability
20
16.67
13.33
10
6.667
3.333
0
-100
50
200
350
500
650
800
X (m)
Predicted Data
20
16.67
13.33
10
6.667
3.333
0
-100
50
200
350
500
650
800
X (m)

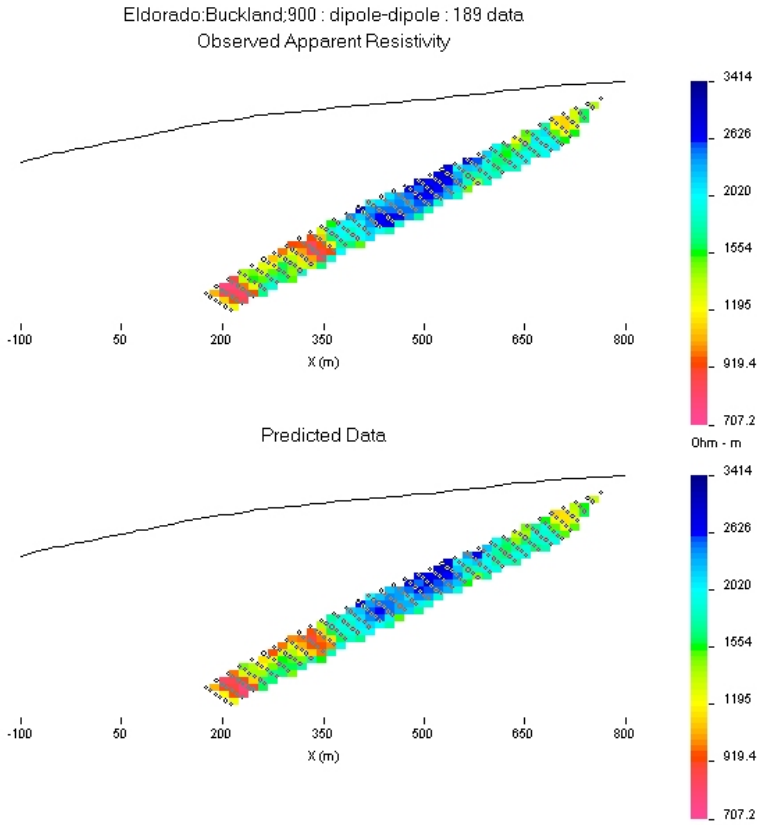

Chargeability Model
Depth (m)
0
71
142
213
-100
50
200
350
500
650
800
X (m)
17.95
14.95
11.96
8.973
5.982
2.991
0
Iterations done: 8
Data misfit
10000
Target misfit = 8505.00
Model Norm
1000
100
1
2
3
4
5
6
7
8
Iteration #

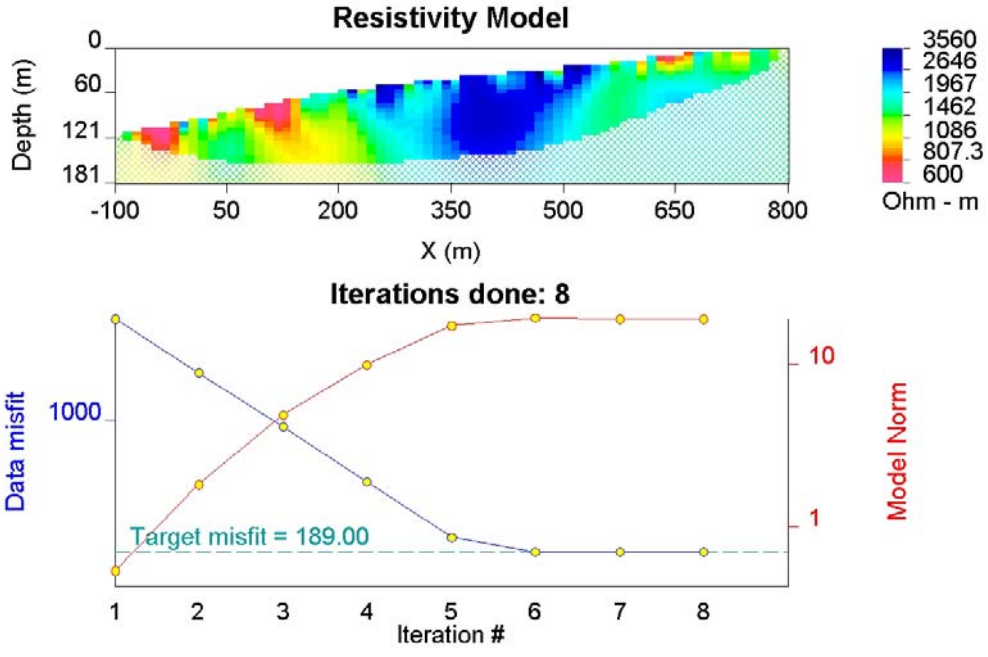

Eldorado:Buckland;850 : dipole-dipole : 189 data
Observed Apparent Resistivity
3068
2317
1750
1322
998
753.7
569.2
Ohm - m
-100
50
200
350
500
650
800
X (m)
Predicted Data
3068
2317
1750
1322
998
753.7
569.2
-100
50
200
350
500
650
800
X (m)

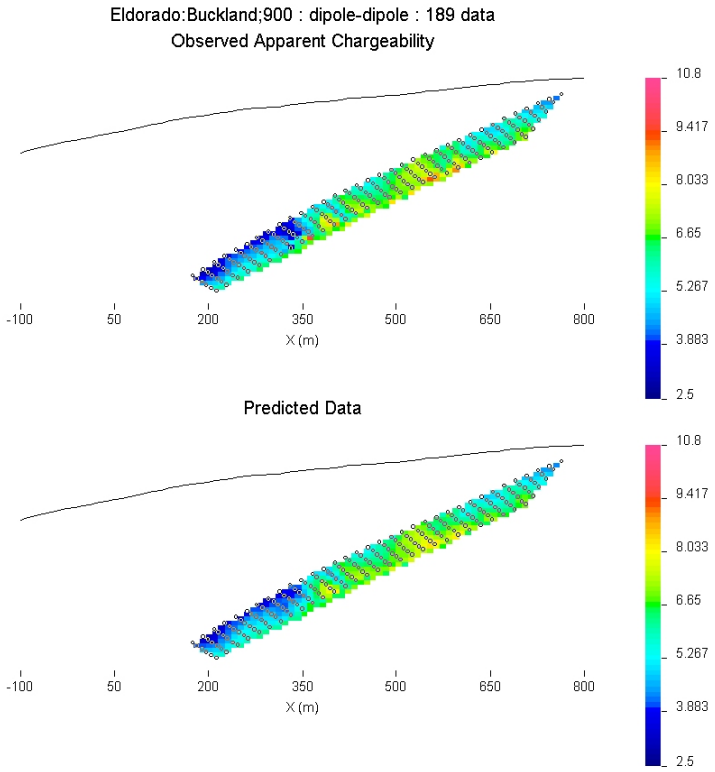

Resistivity Model
Depth (m)
0
60
121
181
-100
50
200
350
500
650
800
X (m)
4154
2919
2051
1441
1013
711.6
500
Ohm - m
Iterations done: 8
Data misfit
1000
Target misfit = 378.00
10
1
Model Norm
1
2
3
4
5
6
7
8
Iteration #

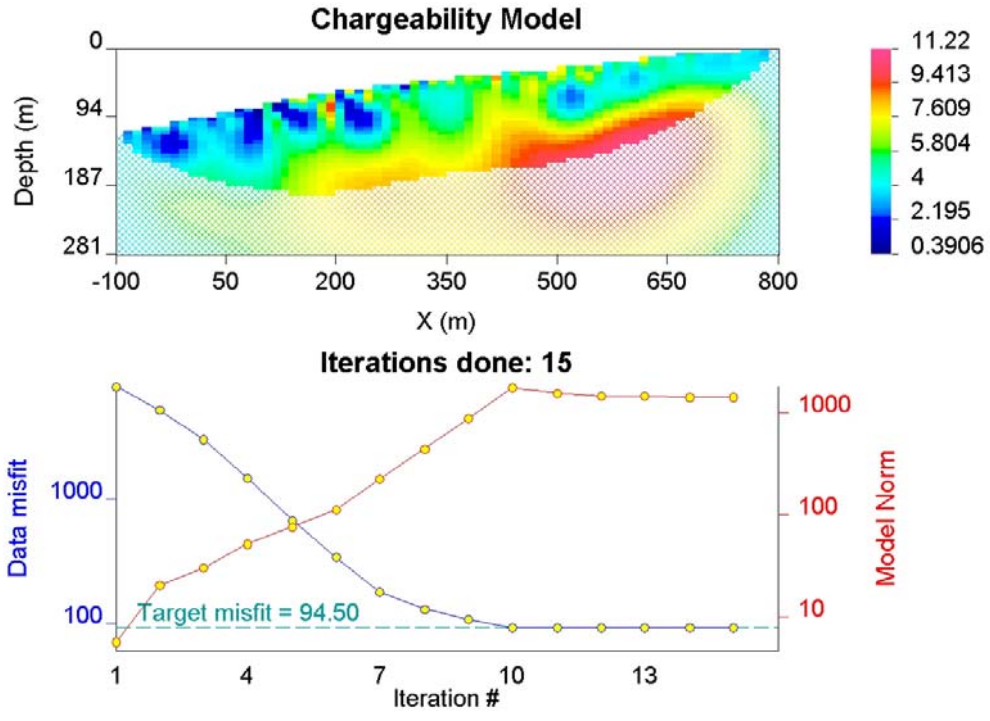

Eldorado:buckland;850 : dipole-dipole : 189 data
Observed Apparent Chargeability
11.1
9.433
7.767
6.1
4.433
2.767
1.1
-100
50
200
350
500
650
800
X (m)
Predicted Data
11.1
9.433
7.767
6.1
4.433
2.767
1.1
-100
50
200
350
500
650
800
X (m)

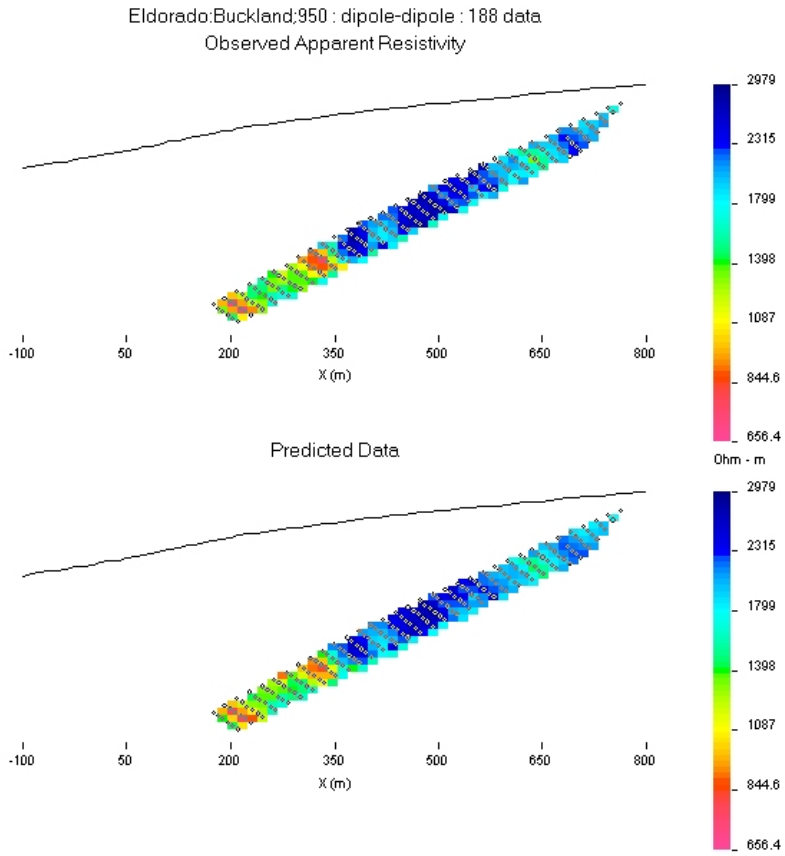

Chargeability Model
Depth (m)
0
71
142
213
-100
50
200
350
500
650
800
X (m)
9.855
8.255
6.654
5.054
3.453
1.853
0.2522
Iterations done: 11
Data misfit
1000
100
Target misfit = 75.60
100
10
Model Norm
1
3
5
7
9
11
Iteration #

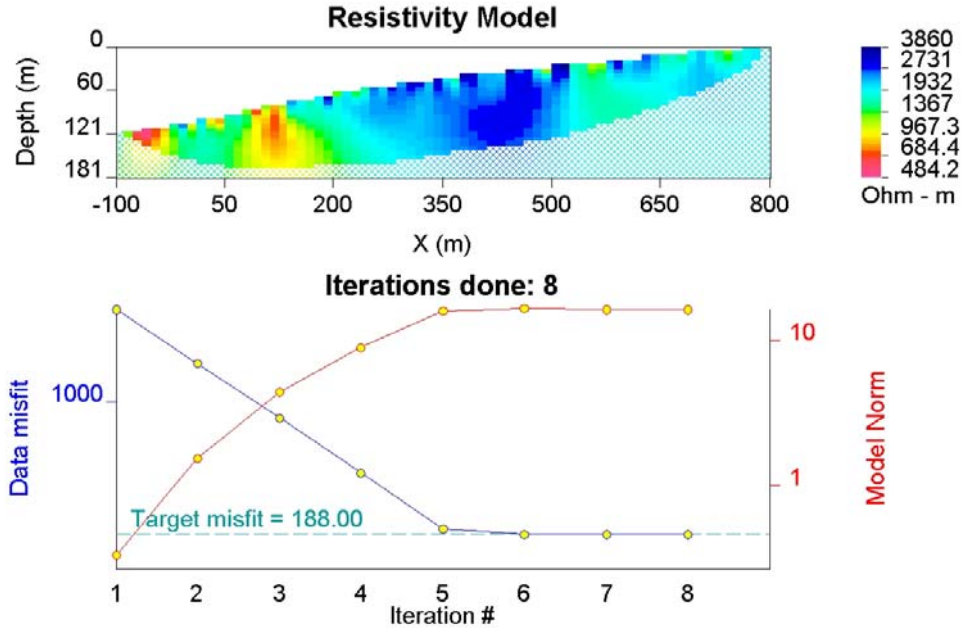

Eldorado:Buckland;900 : dipole-dipole : 189 data
Observed Apparent Resistivity
3414
2626
2020
1554
1195
919.4
707.2
Ohm - m
-100
50
200
350
500
650
800
X (m)
Predicted Data
3414
2626
2020
1554
1195
919.4
707.2
-100
50
200
350
500
650
800
X (m)

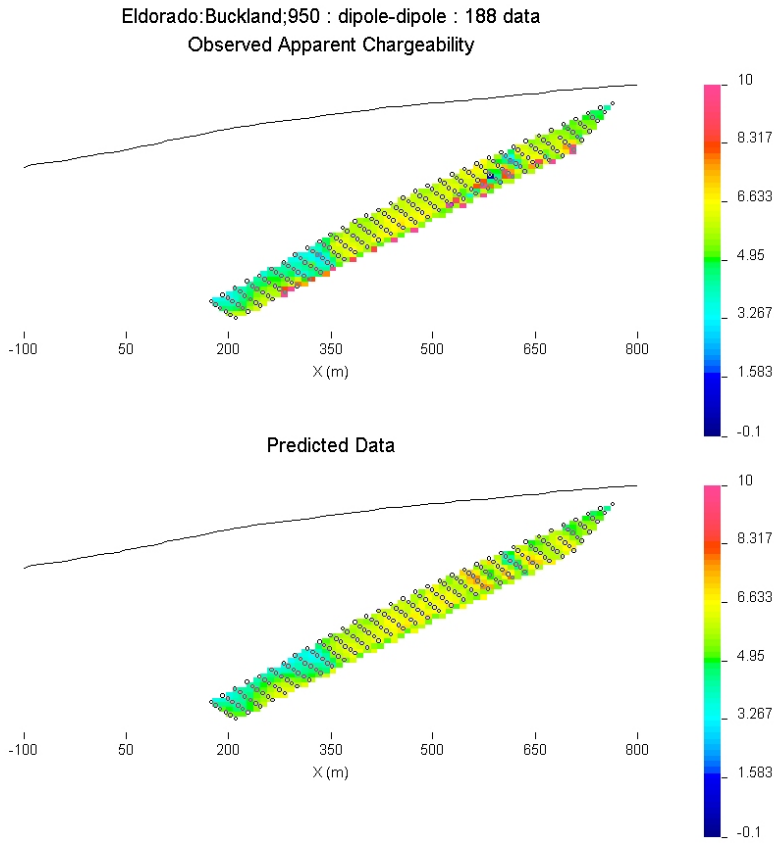

Resistivity Model
Depth (m)
0
60
121
181
-100
50
200
350
500
650
800
X (m)
3560
2646
1967
1462
1086
807.3
600
Ohm - m
Iterations done: 8
Data misfit
1000
Target misfit = 189.00
10
1
Model Norm
1
2
3
4
5
6
7
8
Iteration #

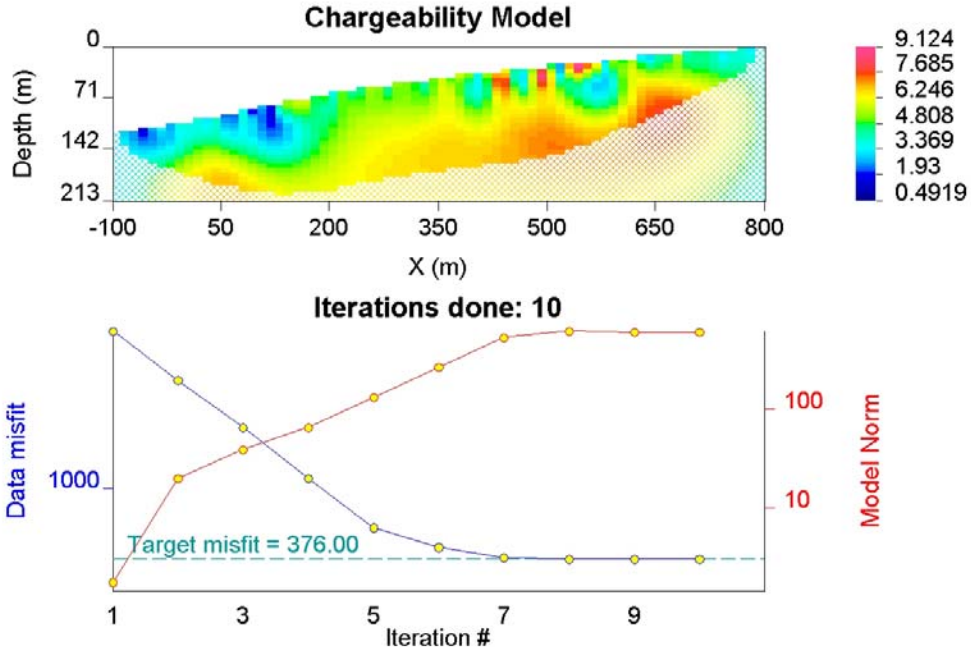

Eldorado:Buckland;900 : dipole-dipole : 189 data
Observed Apparent Chargeability
10.8
9.417
8.033
6.65
5.267
3.883
2.5
-100
50
200
350
500
650
800
X (m)
Predicted Data
10.8
9.417
8.033
6.65
5.267
3.883
2.5
-100
50
200
350
500
650
800
X (m)

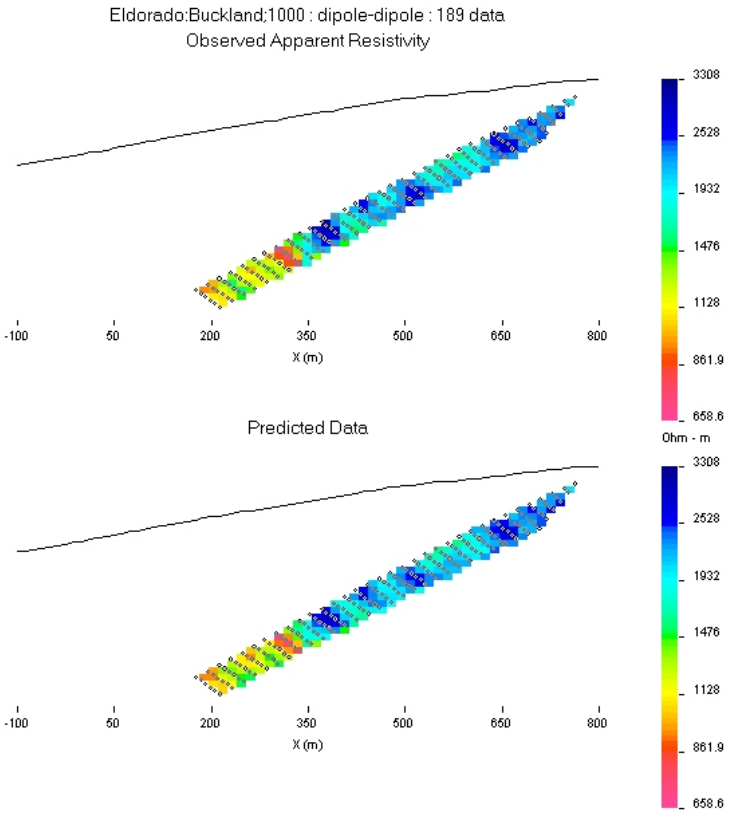

Chargeability Model
Depth (m)
0
94
187
281
-100
50
200
350
500
650
800
X (m)
11.22
9.413
7.609
5.804
4
2.195
0.3906
Iterations done: 15
Data misfit
1000
100
Target misfit = 94.50
1
4
7
10
13
Iteration #
1000
100
10
Model Norm

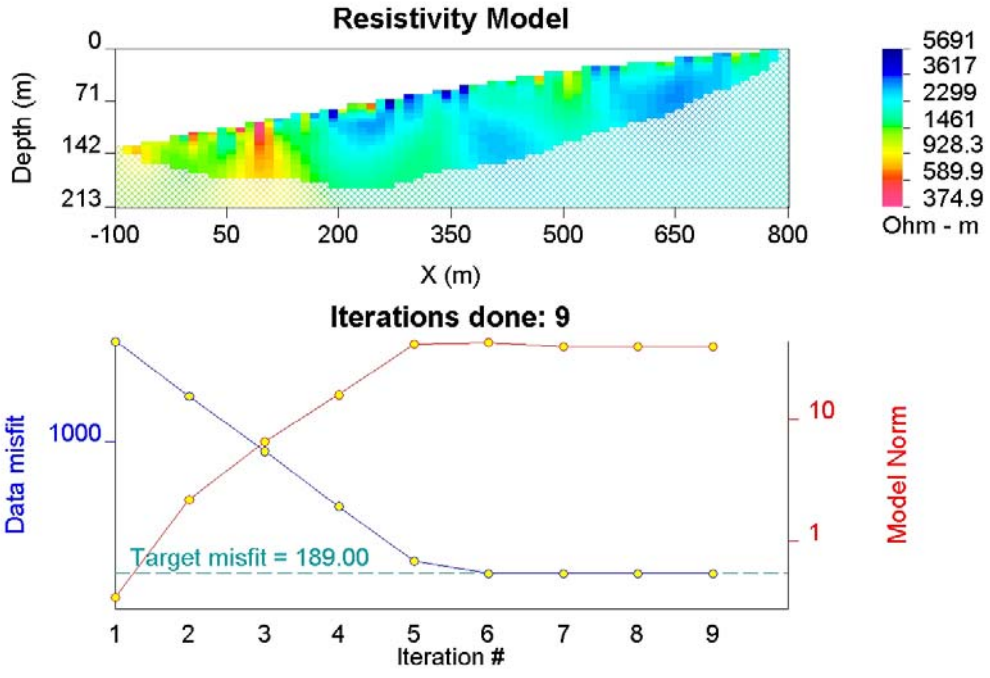

Eldorado:Buckland;950 : dipole-dipole : 188 data
Observed Apparent Resistivity
2979
2315
1799
1398
1087
844.6
656.4
Ohm - m
-100
50
200
350
500
650
800
X (m)
Predicted Data
2979
2315
1799
1398
1087
844.6
656.4
-100
50
200
350
500
650
800
X (m)

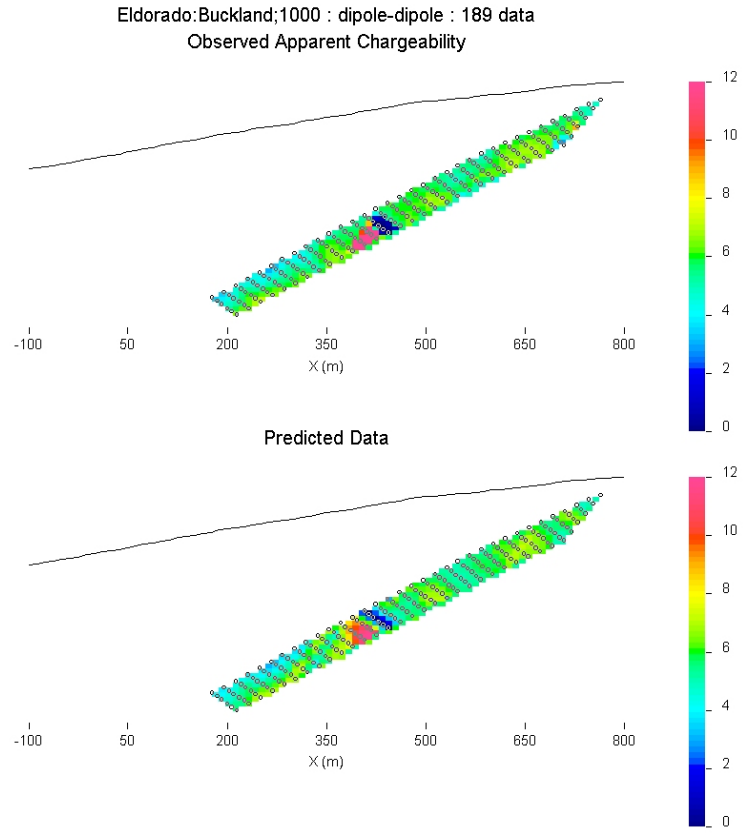

Resistivity Model
Depth (m)
0
60
121
181
-100
50
200
350
500
650
800
X (m)
3860
2731
1932
1367
967.3
684.4
484.2
Ohm - m
Iterations done: 8
Data misfit
1000
Target misfit = 188.00
10
1
Model Norm
1
2
3
4
5
6
7
8
Iteration #

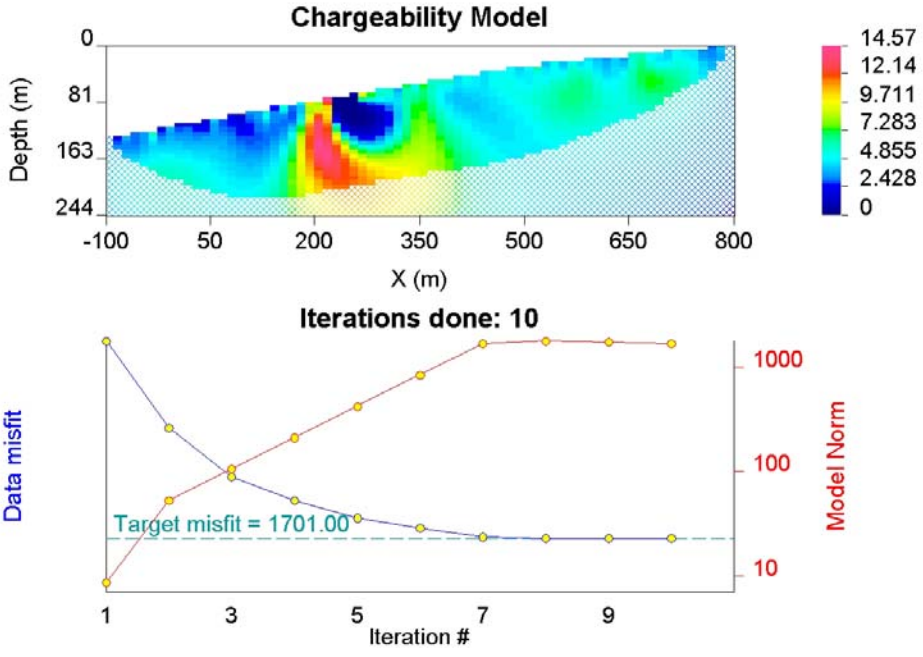

Eldorado:Buckland;950 : dipole-dipole : 188 data
Observed Apparent Chargeability
10
8.317
6.633
4.95
3.267
1.583
-0.1
-100
50
200
350
500
650
800
X (m)
Predicted Data
10
8.317
6.633
4.95
3.267
1.583
-0.1
-100
50
200
350
500
650
800
X (m)

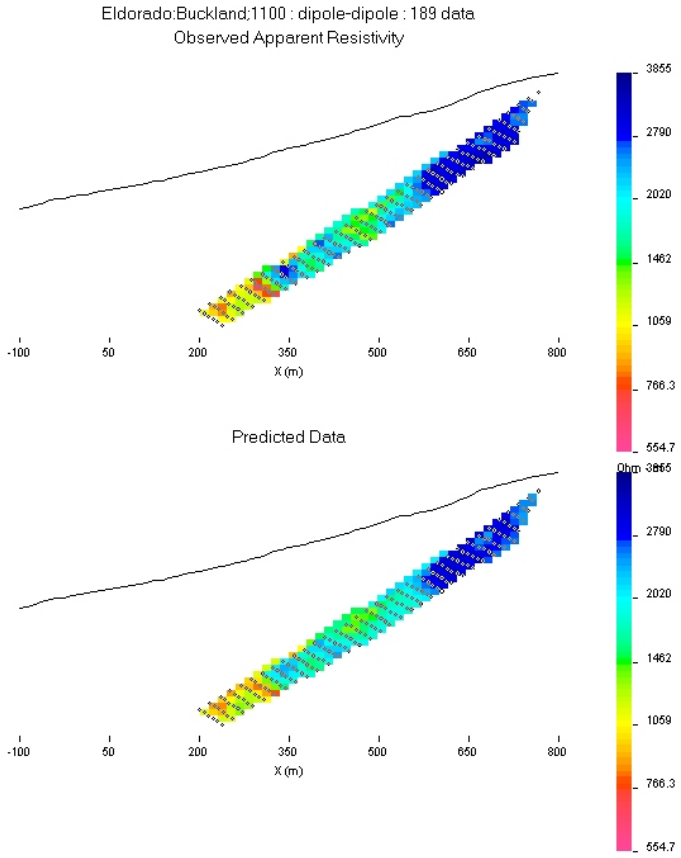

Chargeability Model
Depth (m)
0
71
142
213
-100
50
200
350
500
650
800
X (m)
9.124
7.685
6.246
4.808
3.369
1.93
0.4919
Iterations done: 10
Data misfit
1000
Target misfit = 376.00
100
10
Model Norm
1
3
5
7
9
Iteration #

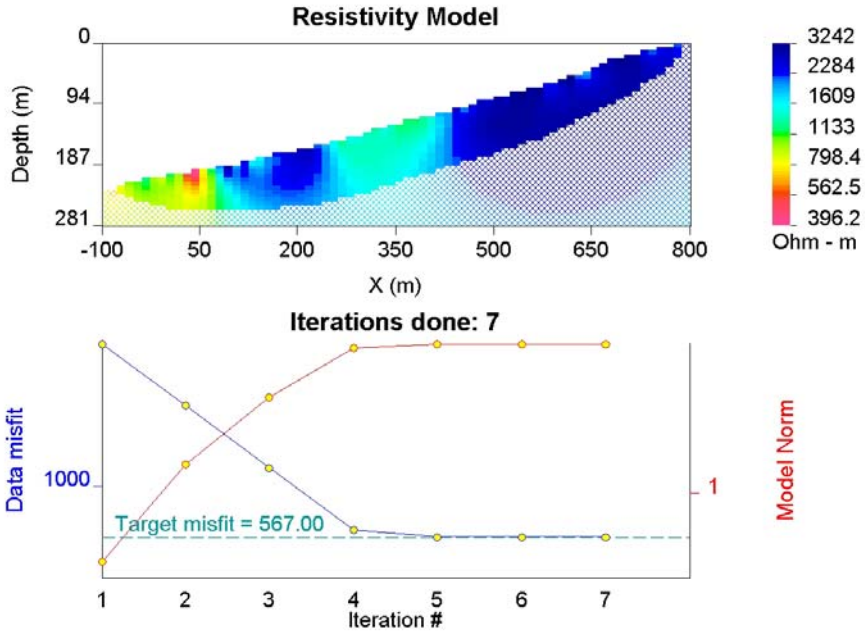

Eldorado:Buckland;1000 : dipole-dipole : 189 data
Observed Apparent Resistivity
3308
2528
1932
1476
1128
861.9
658.6
Ohm - m
-100
50
200
350
500
650
800
X (m)
Predicted Data
3308
2528
1932
1476
1128
861.9
658.6
-100
50
200
350
500
650
800
X (m)

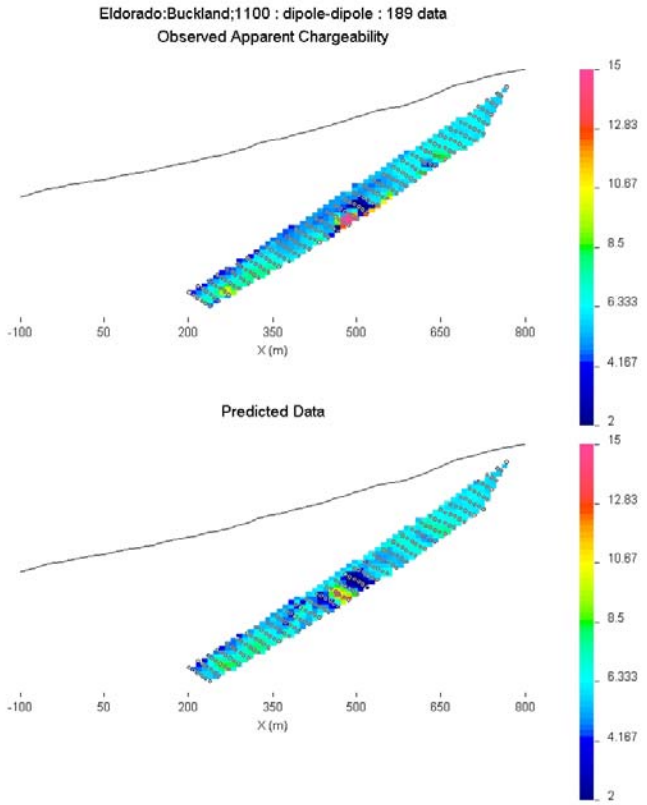

Resistivity Model
Depth (m)
0
71
142
213
-100
50
200
350
500
650
800
X (m)
5691
3617
2299
1461
928.3
589.9
374.9
Ohm - m
Iterations done: 9
Data misfit
1000
Target misfit = 189.00
10
1
Model Norm
1
2
3
4
5
6
7
8
9
Iteration #

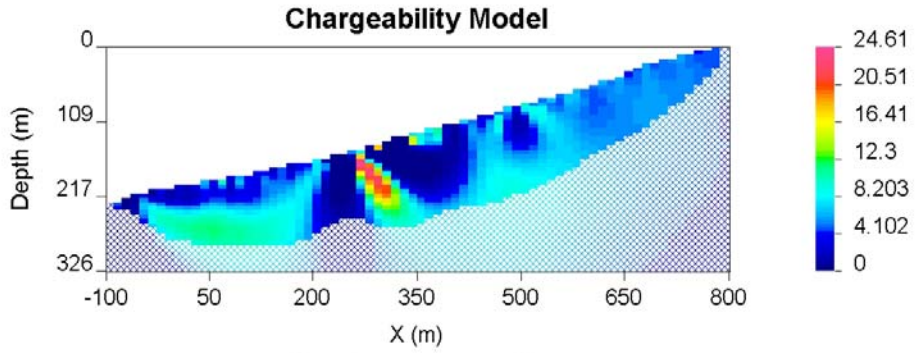

Eldorado:Buckland;1000 : dipole-dipole : 189 data
Observed Apparent Chargeability
12
10
8
6
4
2
0
-100
50
200
350
500
650
800
X (m)
Predicted Data
12
10
8
6
4
2
0
-100
50
200
350
500
650
800
X (m)

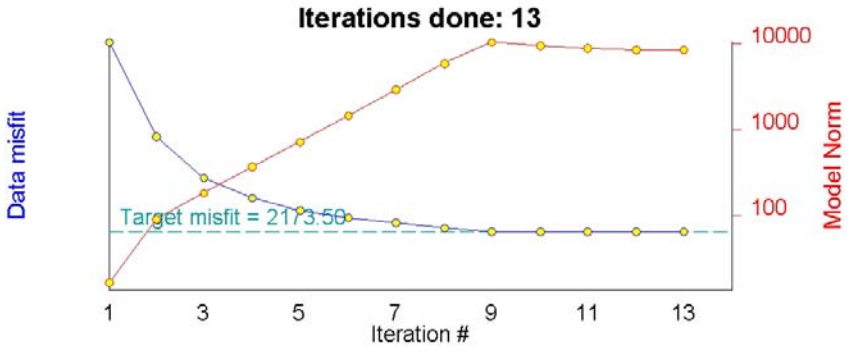

Chargeability Model
Depth (m)
0
81
163
244
-100
50
200
350
500
650
800
X (m)
14.57
12.14
9.711
7.283
4.855
2.428
0
Iterations done: 10
Data misfit
Target misfit = 1701.00
1000
100
10
Model Norm
1
3
5
7
9
Iteration #

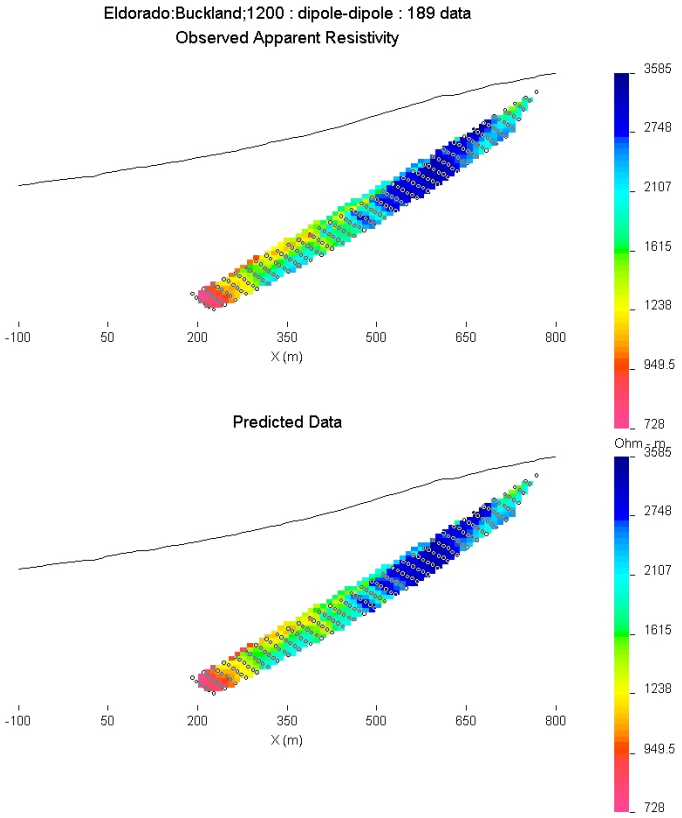

Eldorado:Buckland;1100 : dipole-dipole : 189 data
Observed Apparent Resistivity
3855
2790
2020
1462
1059
766.3
554.7
-100
50
200
350
500
650
800
X (m)
Predicted Data
Ohm
3855
2790
2020
1462
1059
766.3
554.7
-100
50
200
350
500
650
800
X (m)

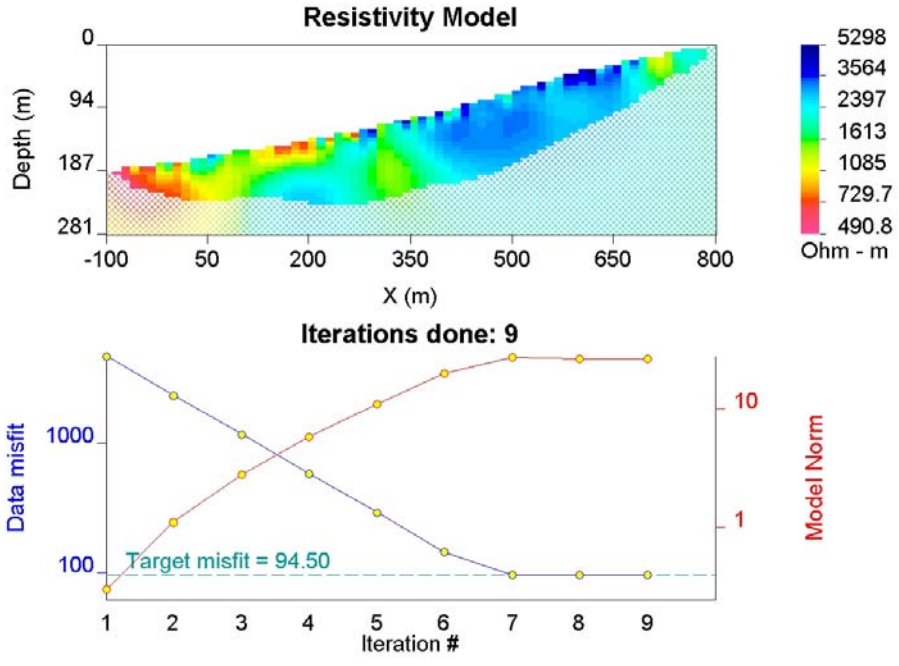

Resistivity Model
Depth (m)
0
94
187
281
-100
50
200
350
500
650
800
X (m)
3242
2284
1609
1133
798.4
562.5
396.2
Ohm - m
Iterations done: 7
Data misfit
1000
Target misfit = 567.00
1
Model Norm
1
2
3
4
5
6
7
Iteration #

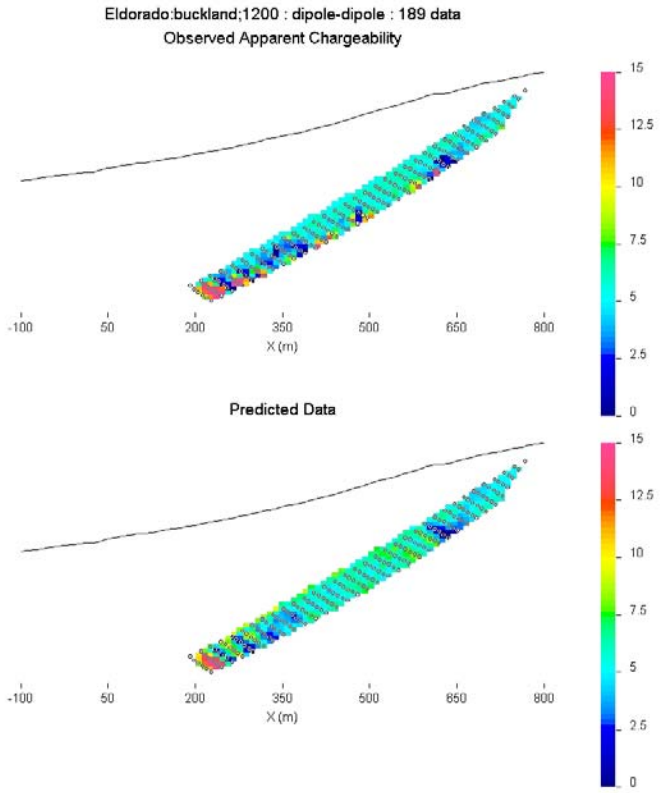

Eldorado:Buckland;1100 : dipole-dipole : 189 data
Observed Apparent Chargeability
15
12.83
10.67
8.5
6.333
4.167
2
-100
50
200
350
500
650
800
X (m)
Predicted Data
15
12.83
10.67
8.5
6.333
4.167
2
-100
50
200
350
500
650
800
X (m)

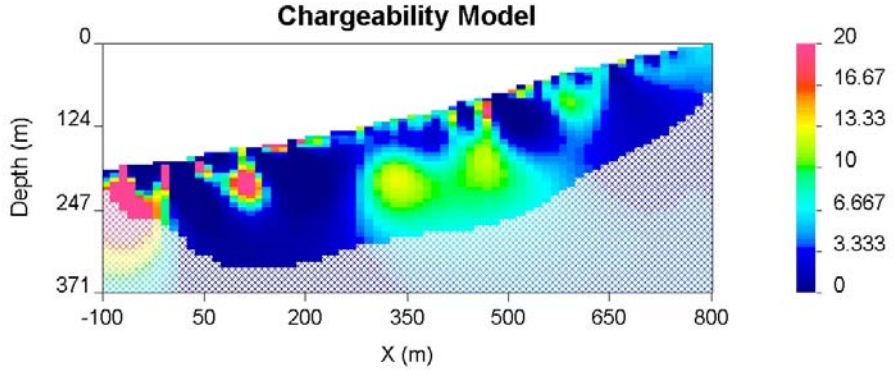

Chargeability Model
Depth (m)
0
109
217
326
-100
50
200
350
500
650
800
X (m)
24.61
20.51
16.41
12.3
8.203
4.102
0

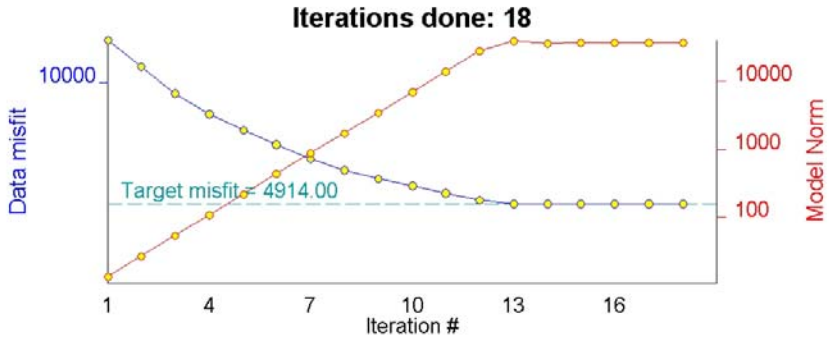

Iterations done: 13
Data misfit
Target misfit = 2173.50
10000
1000
100
Model Norm
1
3
5
7
9
11
13
Iteration #

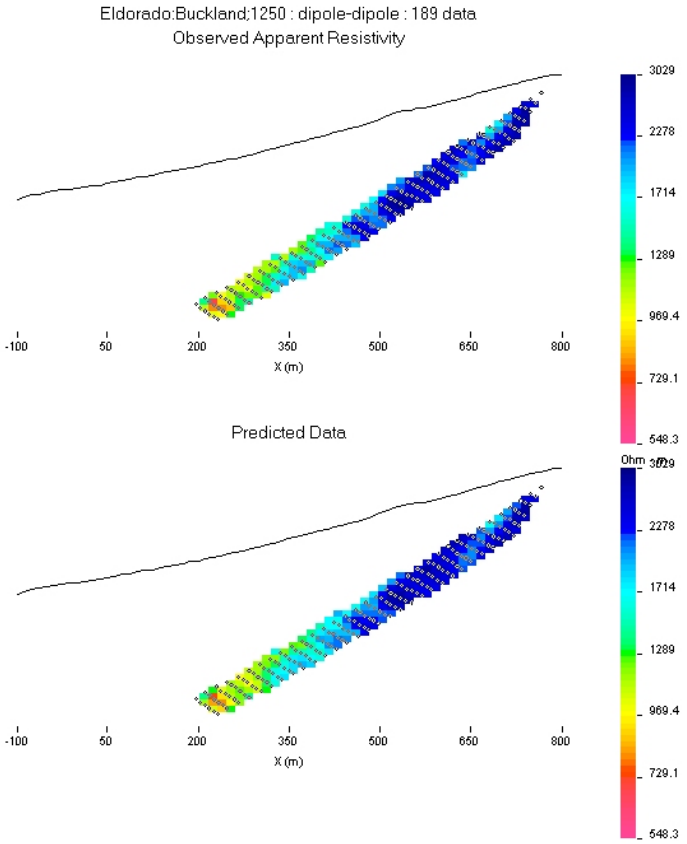

Eldorado:Buckland;1200 : dipole-dipole : 189 data
Observed Apparent Resistivity
3585
2748
2107
1615
1238
949.5
728
Ohm - m
-100
50
200
350
500
650
800
X (m)
Predicted Data
3585
2748
2107
1615
1238
949.5
728
-100
50
200
350
500
650
800
X (m)

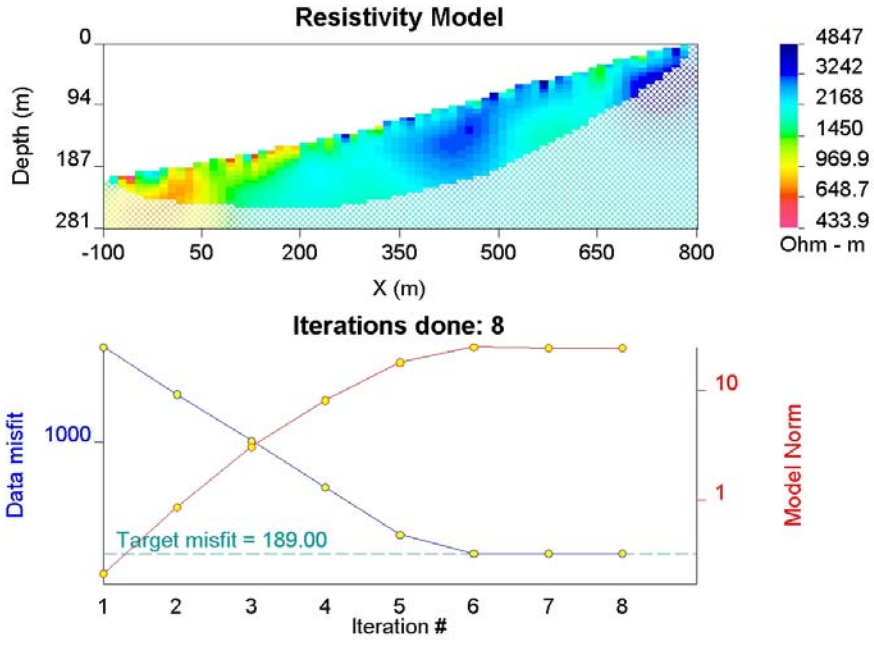

Resistivity Model
Depth (m)
0
94
187
281
-100
50
200
350
500
650
800
X (m)
5298
3564
2397
1613
1085
729.7
490.8
Ohm - m
Iterations done: 9
Data misfit
1000
100
Target misfit = 94.50
10
1
Model Norm
1
2
3
4
5
6
7
8
9
Iteration #

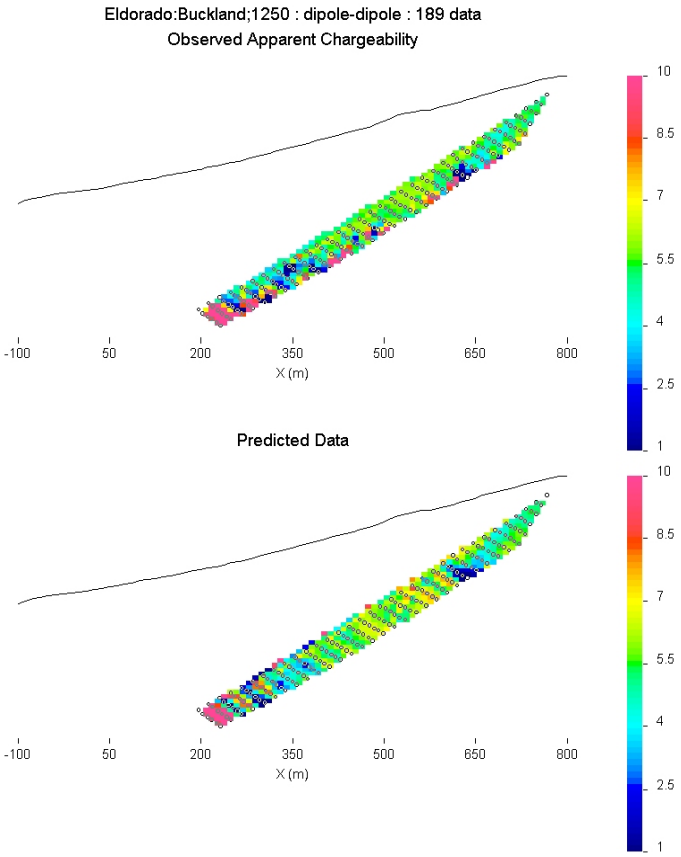

Eldorado:buckland;1200 : dipole-dipole : 189 data
Observed Apparent Chargeability
15
12.5
10
7.5
5
2.5
0
-100
50
200
350
500
650
800
X (m)
Predicted Data
15
12.5
10
7.5
5
2.5
0
-100
50
200
350
500
650
800
X (m)

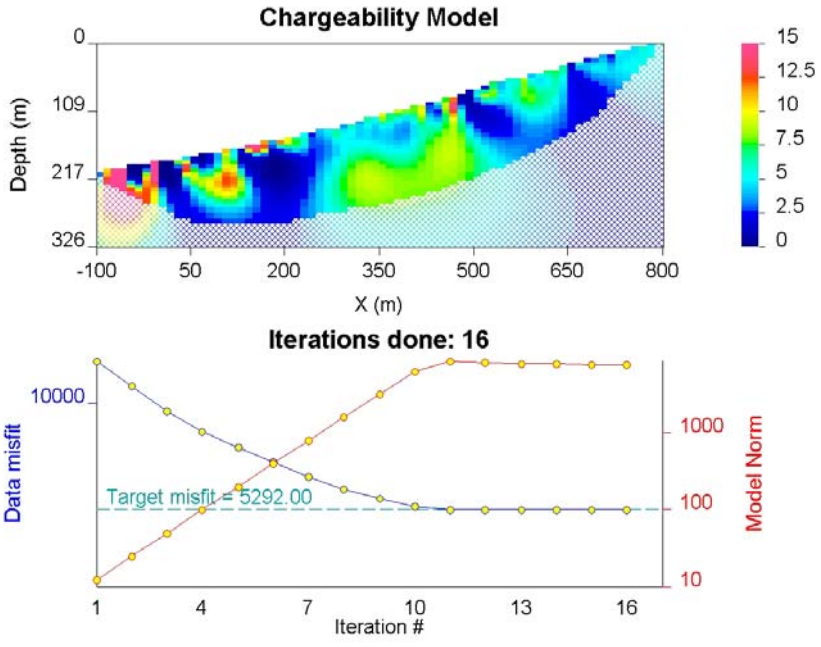

Chargeability Model
Depth (m)
0
124
247
371
-100
50
200
350
500
650
800
X (m)
20
16.67
13.33
10
6.667
3.333
0

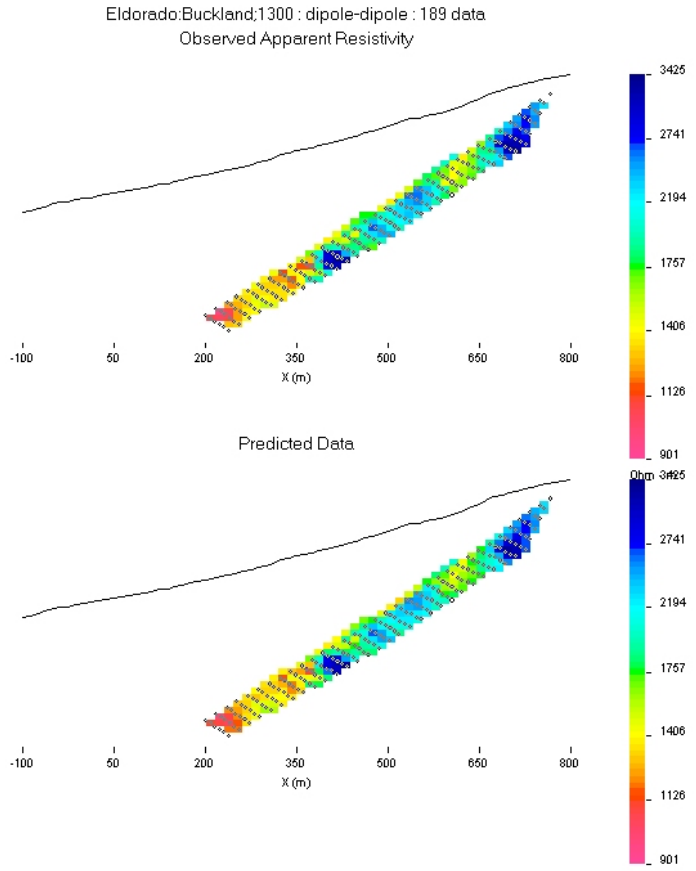

Iterations done: 18
Data misfit
10000
Target misfit= 4914.00
10000
1000
100
Model Norm
1
4
7
10
13
16
Iteration #

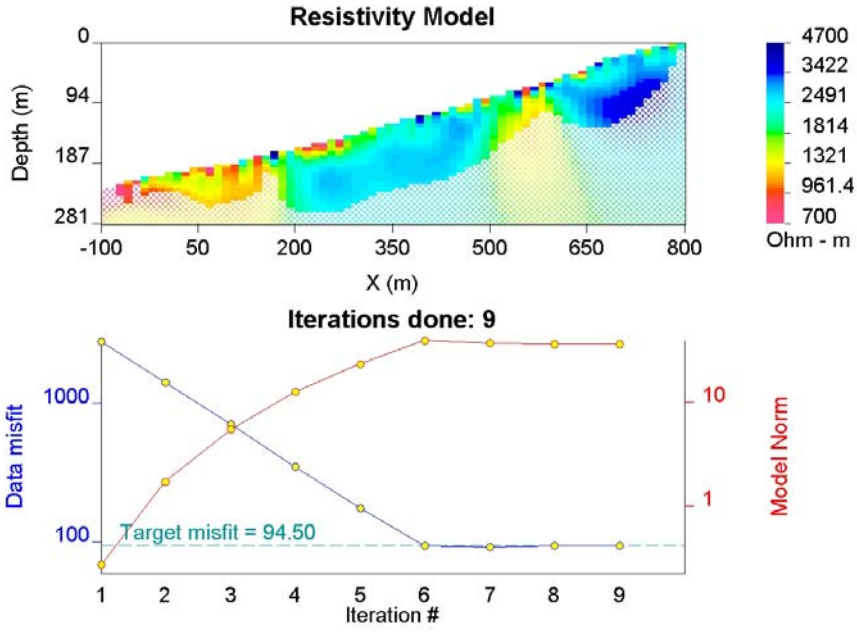

Eldorado:Buckland;1250 : dipole-dipole : 189 data
Observed Apparent Resistivity
3029
2278
1714
1289
969.4
729.1
548.3
-100
50
200
350
500
650
800
X (m)
Predicted Data
Ohm - m
3029
2278
1714
1289
969.4
729.1
548.3
-100
50
200
350
500
650
800
X (m)

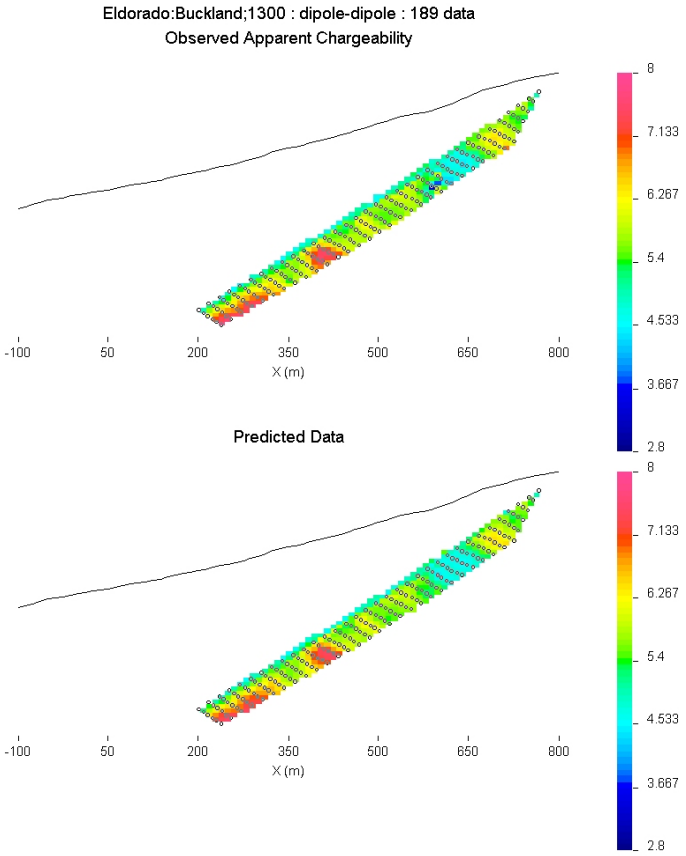

Resistivity Model
Depth (m)
0
94
187
281
-100
50
200
350
500
650
800
X (m)
4847
3242
2168
1450
969.9
648.7
433.9
Ohm - m
Iterations done: 8
Data misfit
1000
Target misfit = 189.00
10
1
Model Norm
1
2
3
4
5
6
7
8
Iteration #

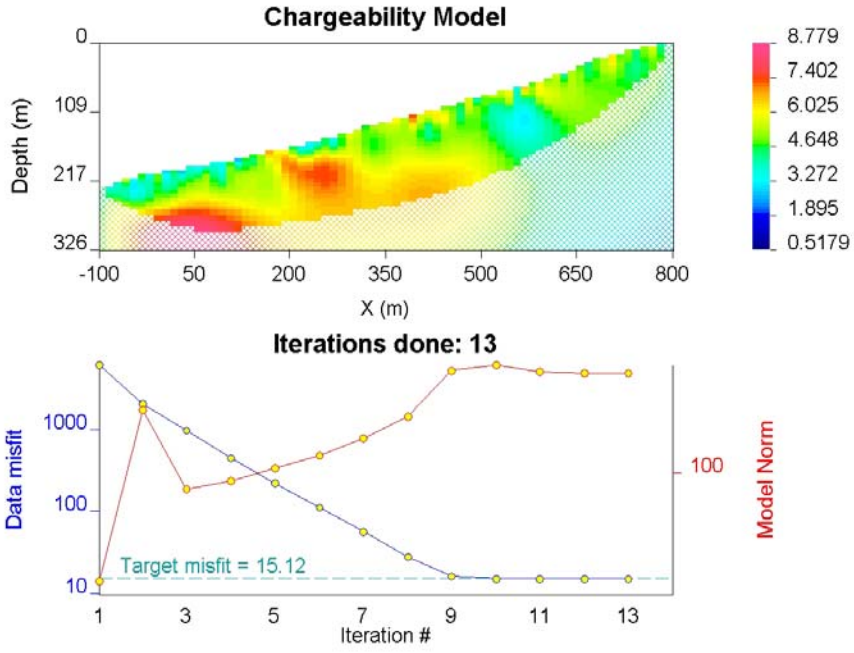

Eldorado:Buckland;1250 : dipole-dipole : 189 data
Observed Apparent Chargeability
10
8.5
7
5.5
4
2.5
1
-100
50
200
350
500
650
800
X (m)
Predicted Data
10
8.5
7
5.5
4
2.5
1
-100
50
200
350
500
650
800
X (m)

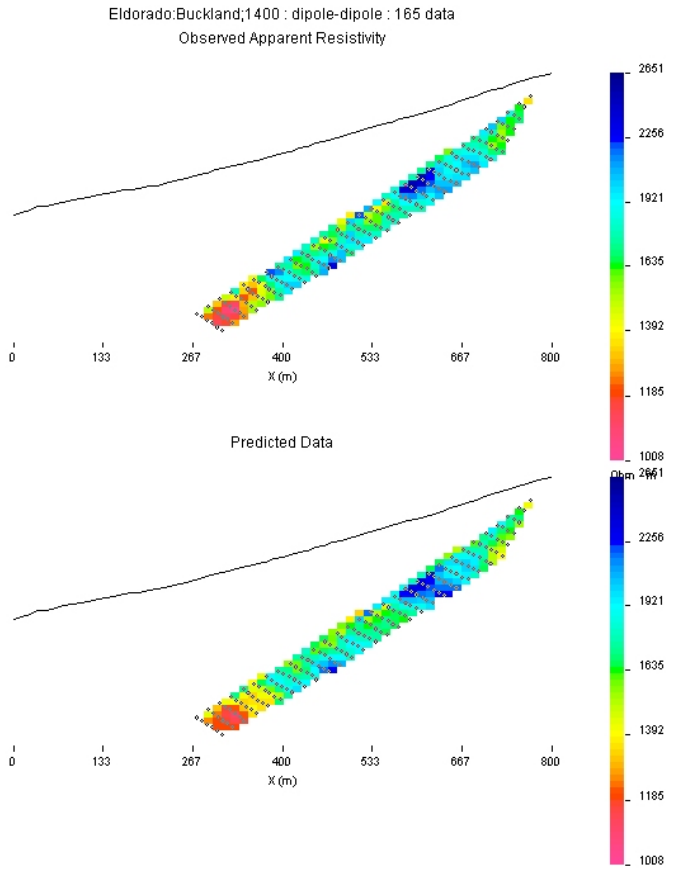

Chargeability Model
Depth (m)
0
109
217
326
-100
50
200
350
500
650
800
X (m)
15
12.5
10
7.5
5
2.5
0
Iterations done: 16
Data misfit
10000
Target misfit = 5292.00
1000
100
10
Model Norm
1
4
7
10
13
16
Iteration #

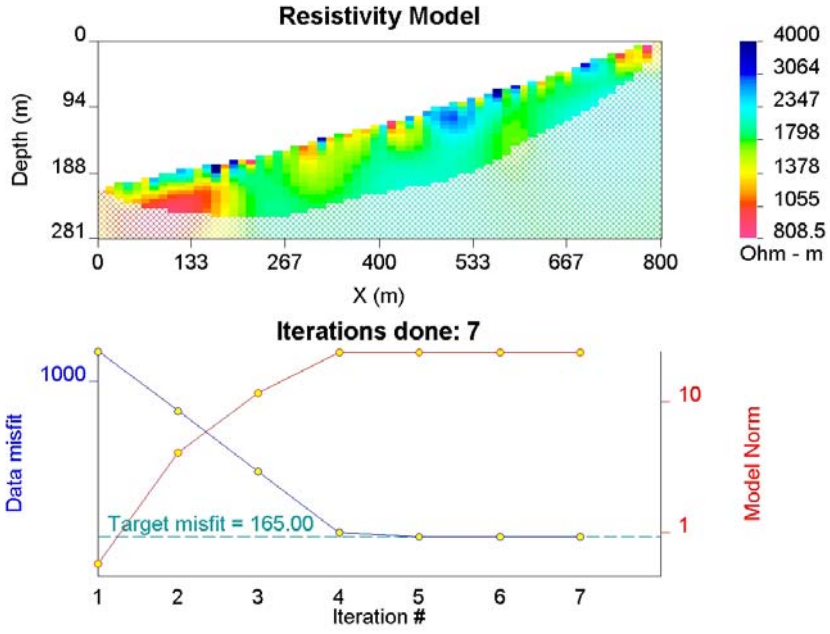

Eldorado:Buckland;1300 : dipole-dipole : 189 data
Observed Apparent Resistivity
3425
2741
2194
1757
1406
1126
901
-100
50
200
350
500
650
800
X (m)
Predicted Data
Ohm - m

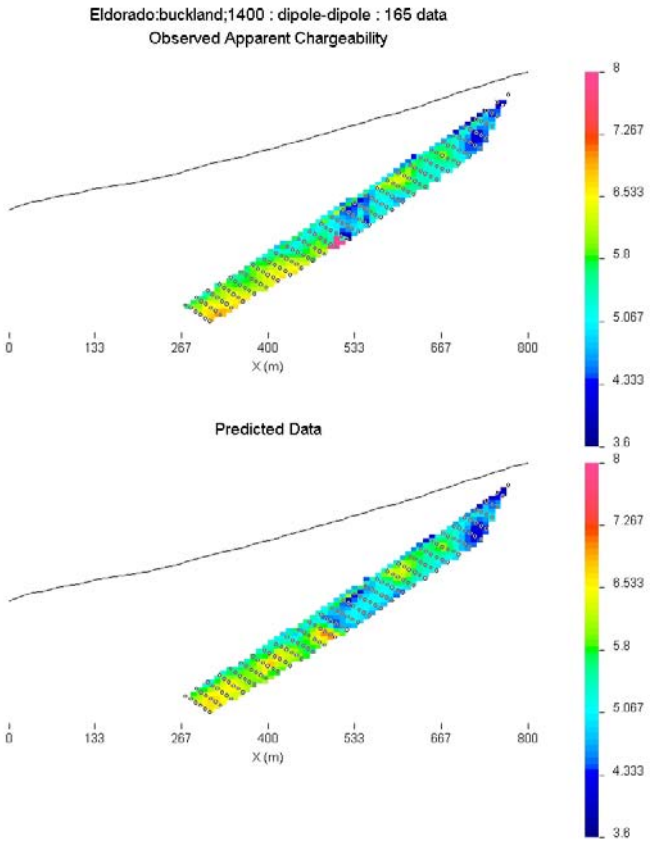

Resistivity Model
Depth (m)
0
94
187
281
-100
50
200
350
500
650
800
X (m)
4700
3422
2491
1814
1321
961.4
700
Ohm - m
Iterations done: 9
Data misfit
1000
100
Target misfit = 94.50
10
1
Model Norm
1
2
3
4
5
6
7
8
9
Iteration #

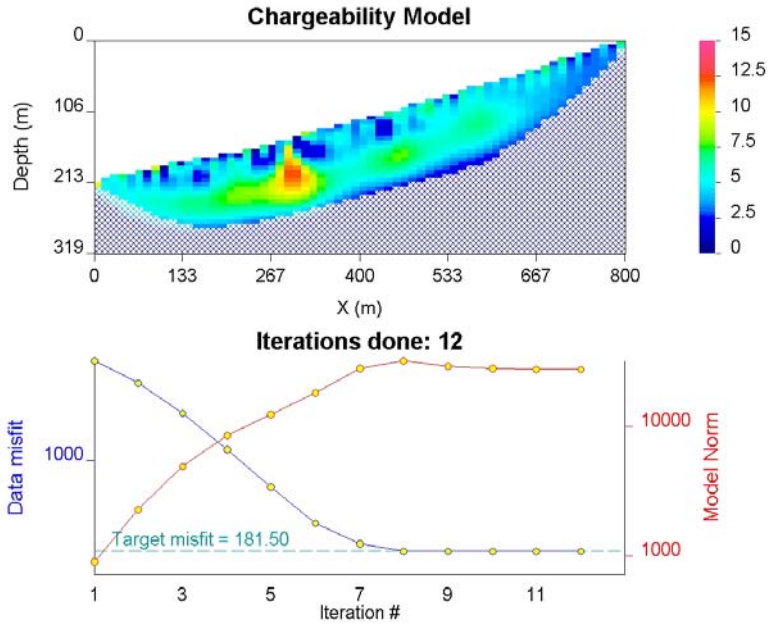

Eldorado:Buckland;1300 : dipole-dipole : 189 data
Observed Apparent Chargeability
8
7.133
6.267
5.4
4.533
3.667
2.8
-100
50
200
350
500
650
800
X (m)
Predicted Data
8
7.133
6.267
5.4
4.533
3.667
2.8
-100
50
200
350
500
650
800
X (m)

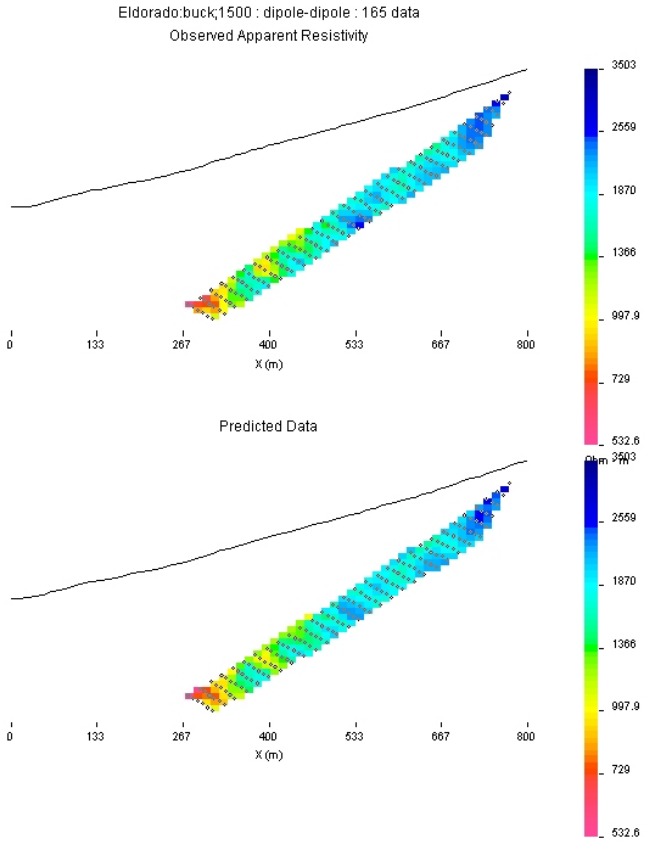

Chargeability Model
Depth (m)
0
109
217
326
-100
50
200
350
500
650
800
X (m)
8.779
7.402
6.025
4.648
3.272
1.895
0.5179
Iterations done: 13
Data misfit
1000
100
10
Target misfit = 15.12
1
3
5
7
9
11
13
Iteration #
100
Model Norm

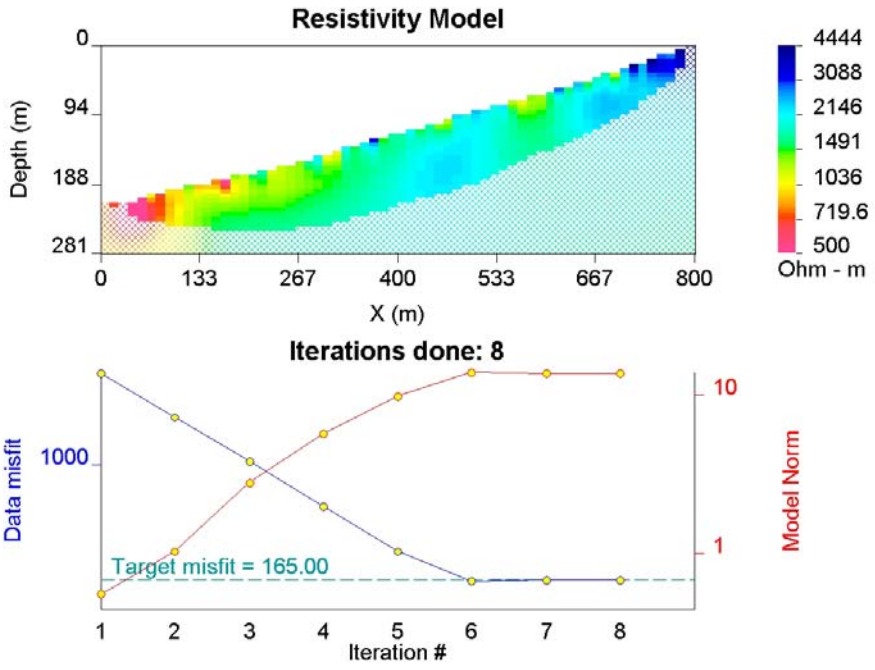

Eldorado:Buckland;1400 : dipole-dipole : 165 data
Observed Apparent Resistivity
2651
2256
1921
1635
1392
1185
1008
0
133
267
400
533
667
800
X (m)
Predicted Data
Ohm - m

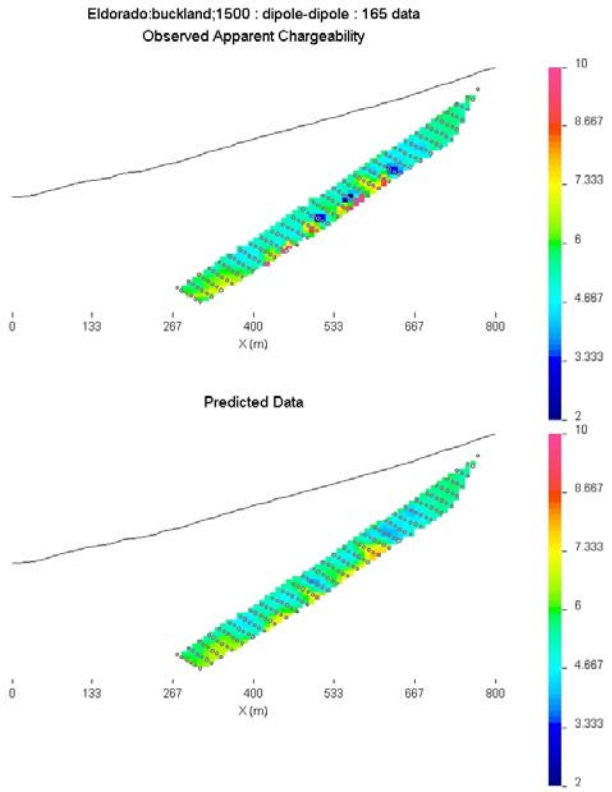

Resistivity Model
Depth (m)
0
94
188
281
0
133
267
400
533
667
800
X (m)
4000
3064
2347
1798
1378
1055
808.5
Ohm - m
Iterations done: 7
1000
Data misfit
Target misfit = 165.00
10
1
Model Norm
1
2
3
4
5
6
7
Iteration #

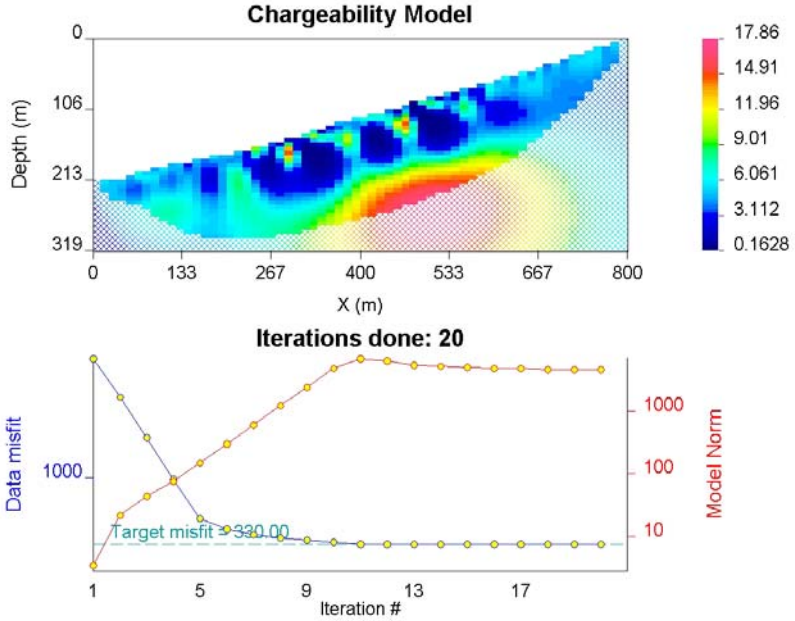

Eldorado:buckland;1400 : dipole-dipole : 165 data
Observed Apparent Chargeability
8
7.267
6.533
5.8
5.067
4.333
3.6
0
133
267
400
533
667
800
X (m)
Predicted Data
8
7.267
6.533
5.8
5.067
4.333
3.6
0
133
267
400
533
667
800
X (m)


Chargeability Model
Depth (m)
0
106
213
319
0
133
267
400
533
667
800
X (m)
15
12.5
10
7.5
5
2.5
0
Iterations done: 12
Data misfit
1000
Target misfit = 181.50
10000
1000
Model Norm
1
3
5
7
9
11
Iteration #

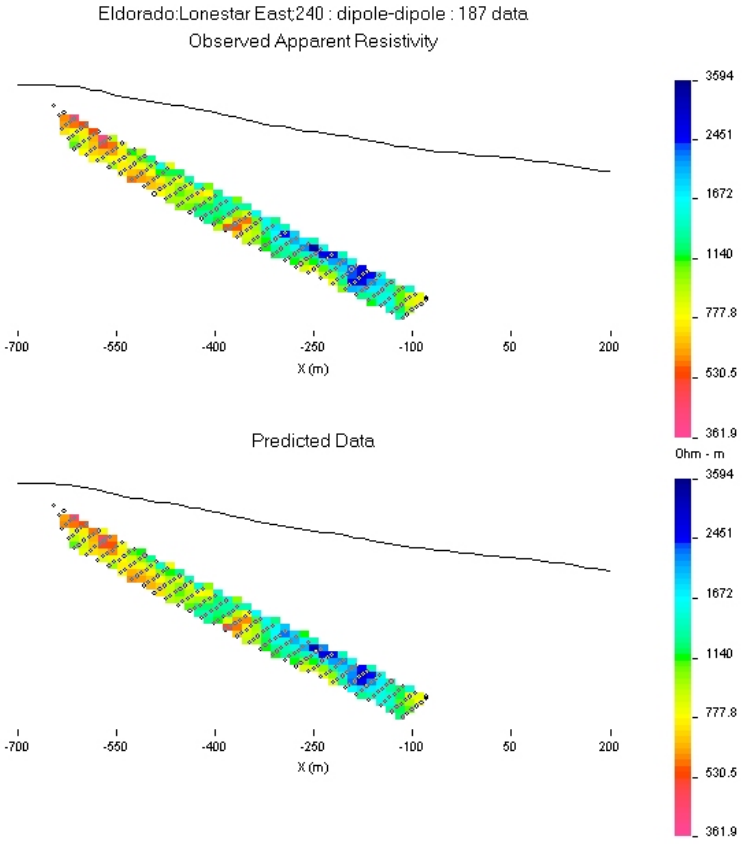

Eldorado:buck;1500 : dipole-dipole : 165 data
Observed Apparent Resistivity
3503
2559
1870
1366
997.9
729
532.6
0
133
267
400
533
667
800
X (m)
Predicted Data
Ohm - m

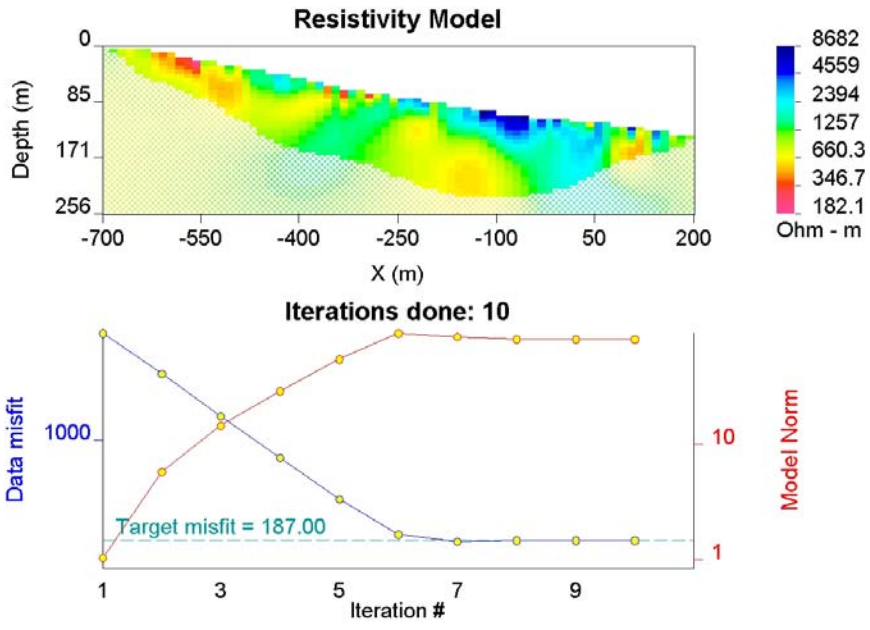

Resistivity Model
Depth (m)
0
94
188
281
X (m)
4444
3088
2146
1491
1036
719.6
500
Ohm - m
Iterations done: 8
Data misfit
1000
Target misfit = 165.00
10
1
Model Norm
Iteration #

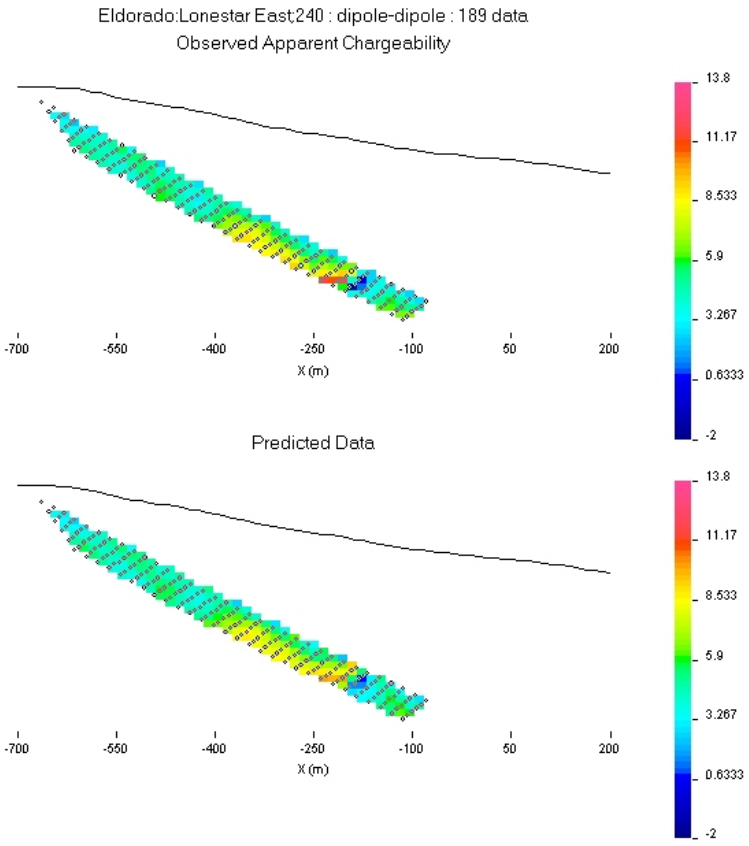

Eldorado:buckland;1500 : dipole-dipole : 165 data
Observed Apparent Chargeability
10
8.667
7.333
6
4.667
3.333
2
0
133
267
400
533
667
800
X (m)
Predicted Data
10
8.667
7.333
6
4.667
3.333
2
0
133
267
400
533
667
800
X (m)

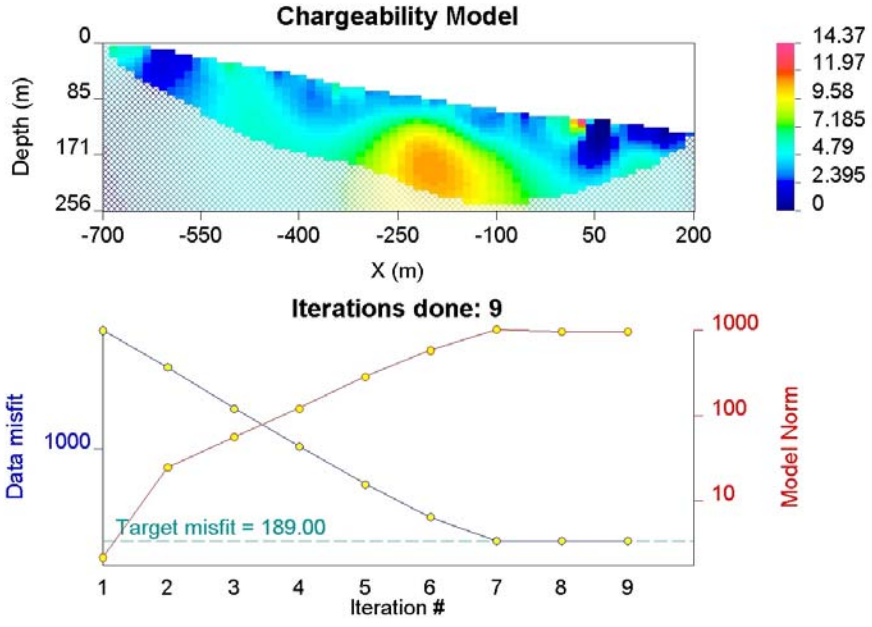

Chargeability Model
Depth (m)
0
106
213
319
0
133
267
400
533
667
800
X (m)
17.86
14.91
11.96
9.01
6.061
3.112
0.1628
Iterations done: 20
Data misfit
1000
Target misfit = 330.00
1000
100
10
Model Norm
1
5
9
13
17
Iteration #

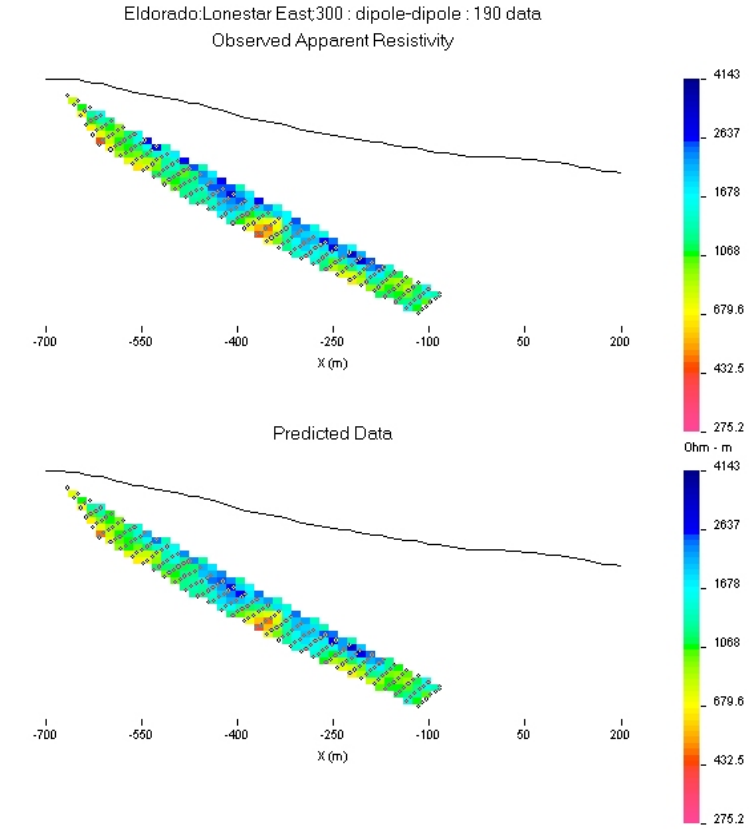
Lonestar East grid

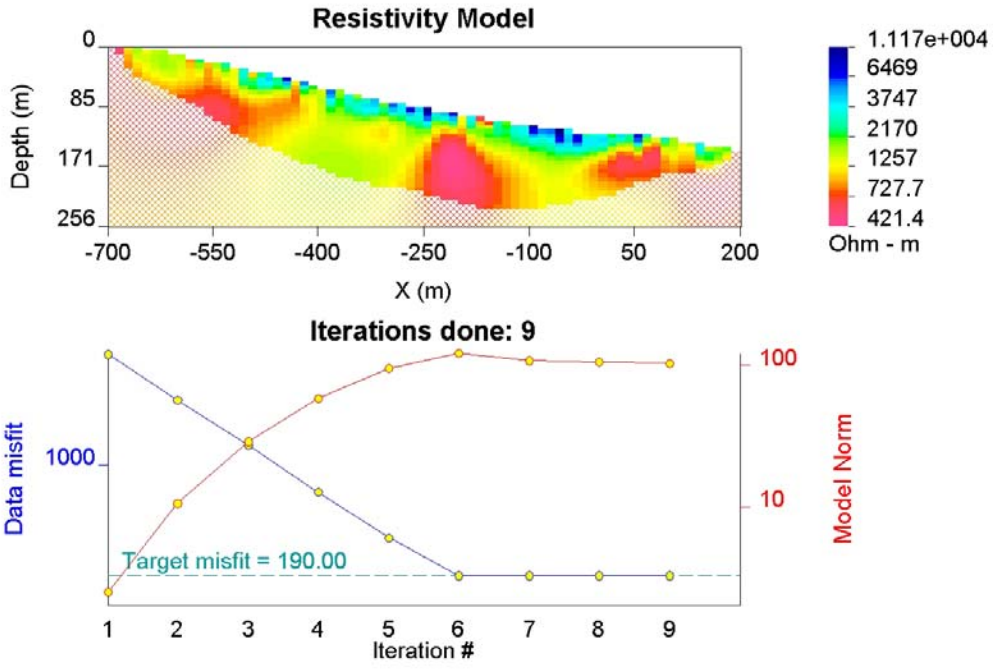


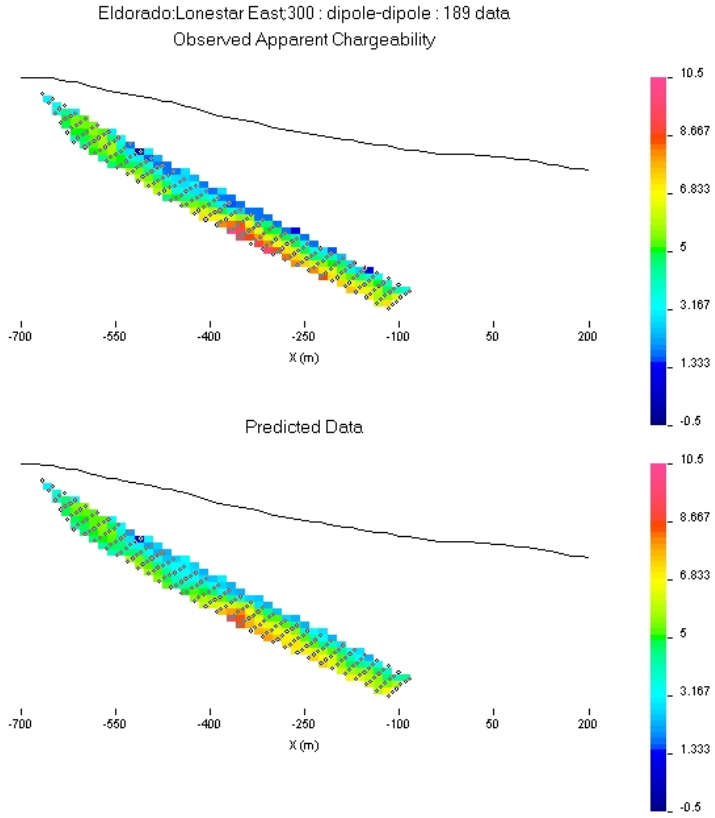


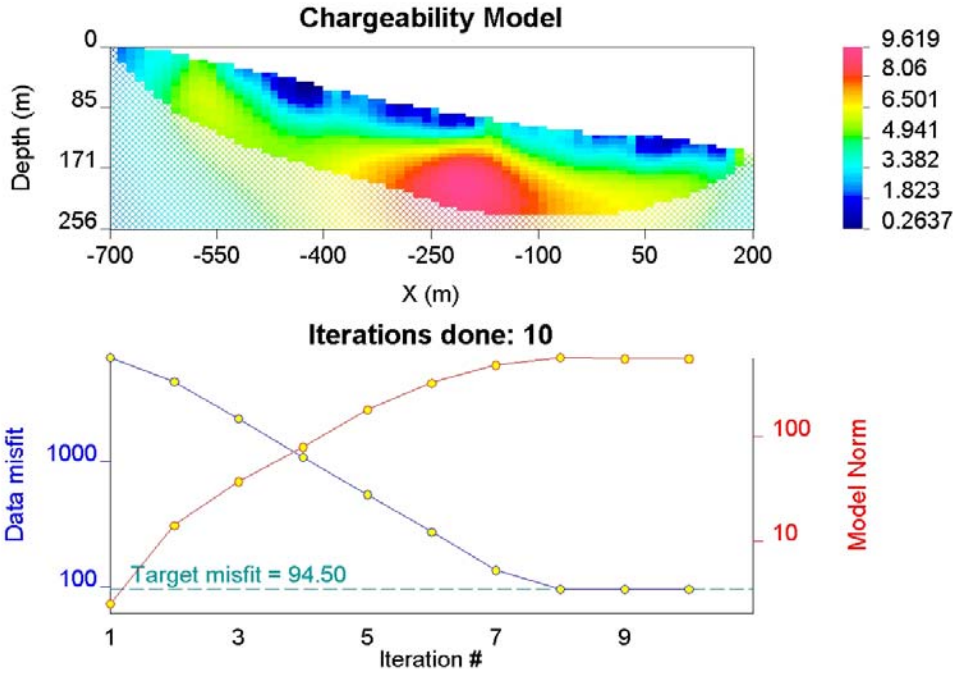

Eldorado:Lonestar East;240 : dipole-dipole : 189 data
Observed Apparent Chargeability
13.8
11.17
8.533
5.9
3.267
0.6333
-2
-700
-550
-400
-250
-100
50
200
X (m)
Predicted Data
13.8
11.17
8.533
5.9
3.267
0.6333
-2
-700
-550
-400
-250
-100
50
200
X (m)

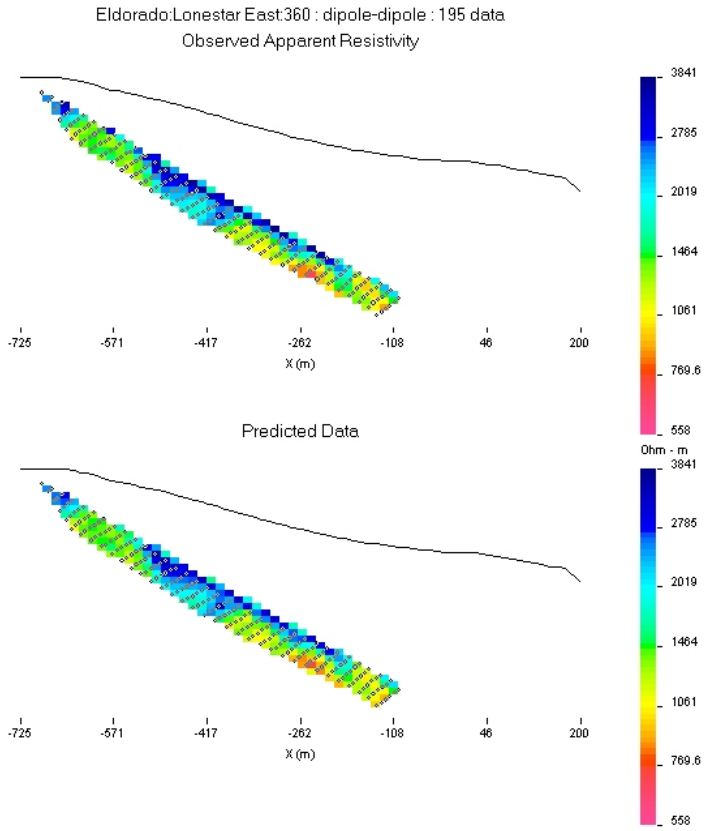

Chargeability Model
Depth (m)
0
85
171
256
-700
-550
-400
-250
-100
50
200
X (m)
14.37
11.97
9.58
7.185
4.79
2.395
0
Iterations done: 9
Data misfit
1000
Target misfit = 189.00
1
2
3
4
5
6
7
8
9
Iteration #
1000
100
10
Model Norm

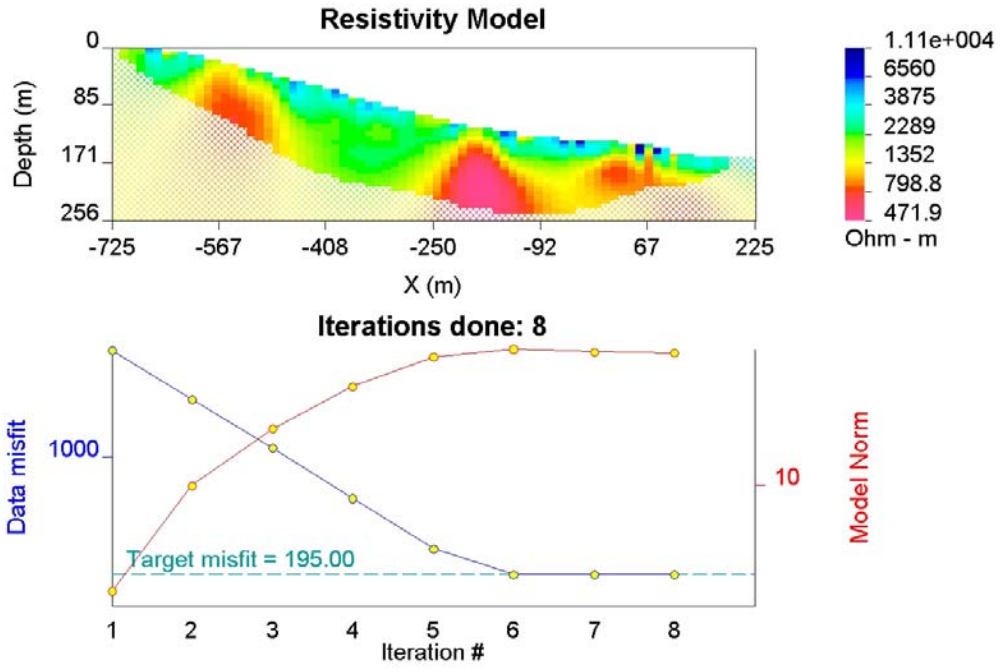

Eldorado:Lonestar East;300 : dipole-dipole : 190 data
Observed Apparent Resistivity
4143
2637
1678
1068
679.6
432.5
275.2
Ohm - m
-700
-550
-400
-250
-100
50
200
X (m)
Predicted Data
4143
2637
1678
1068
679.6
432.5
275.2
-700
-550
-400
-250
-100
50
200
X (m)

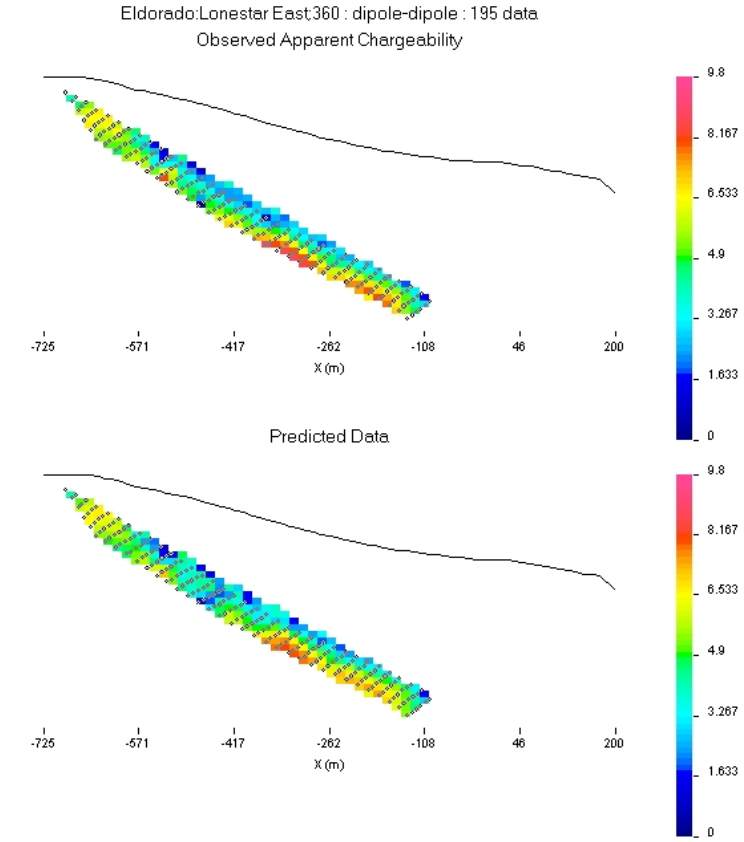

Resistivity Model
Depth (m)
0
85
171
256
-700
-550
-400
-250
-100
50
200
X (m)
1.117e+004
6469
3747
2170
1257
727.7
421.4
Ohm - m
Iterations done: 9
Data misfit
1000
Target misfit = 190.00
100
10
Model Norm
1
2
3
4
5
6
7
8
9
Iteration #

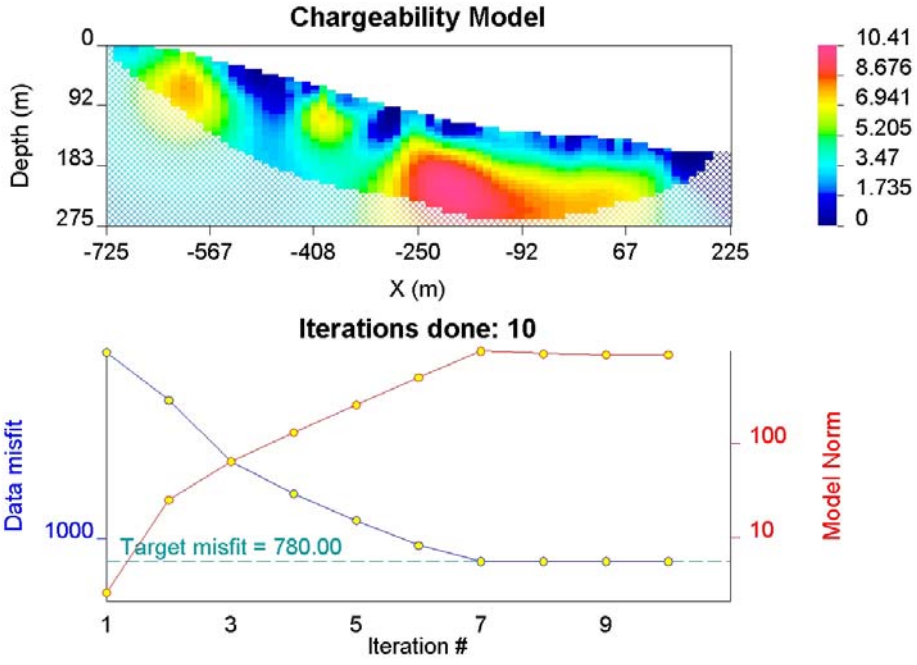

Eldorado:Lonestar East;300 : dipole-dipole : 189 data
Observed Apparent Chargeability
10.5
8.667
6.833
5
3.167
1.333
-0.5
-700
-550
-400
-250
-100
50
200
X (m)
Predicted Data
10.5
8.667
6.833
5
3.167
1.333
-0.5
-700
-550
-400
-250
-100
50
200
X (m)

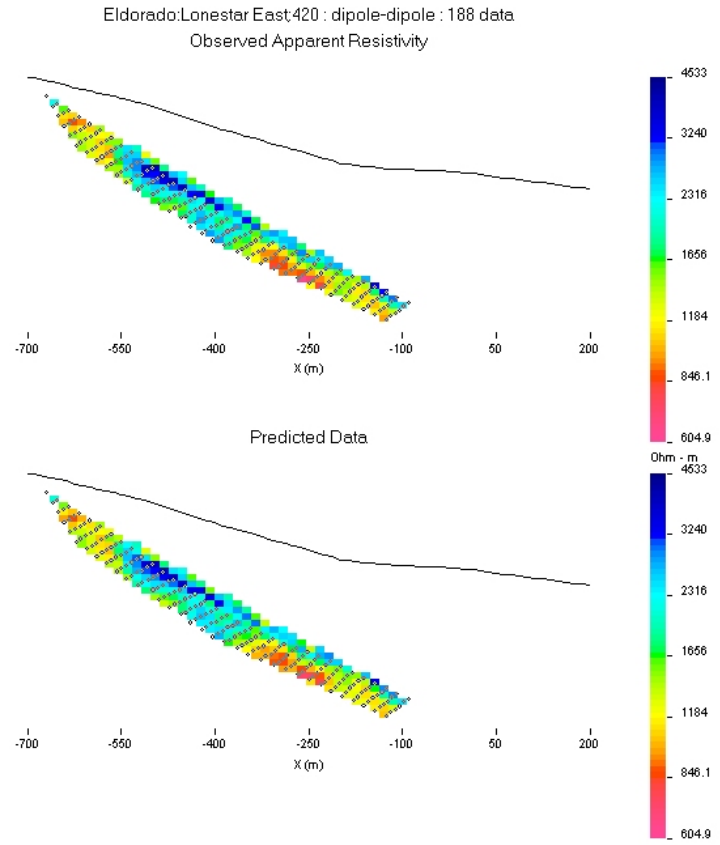

Chargeability Model
Depth (m)
0
85
171
256
-700
-550
-400
-250
-100
50
200
X (m)
9.619
8.06
6.501
4.941
3.382
1.823
0.2637
Iterations done: 10
Data misfit
1000
100
Target misfit = 94.50
1
3
5
7
9
Iteration #
100
10
Model Norm

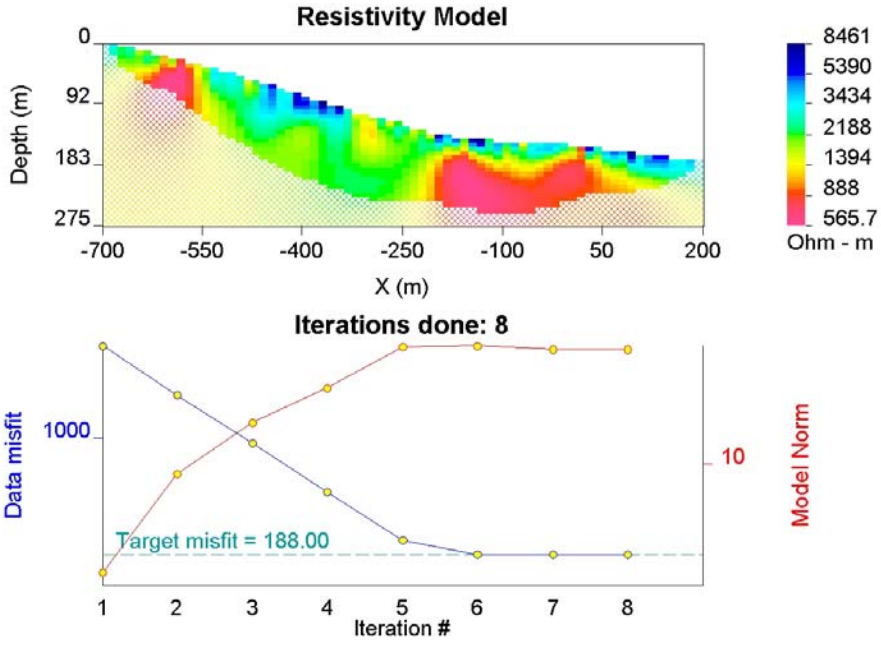

Eldorado:Lonestar East:360 : dipole-dipole : 195 data
Observed Apparent Resistivity
3841
2785
2019
1464
1061
769.6
558
Ohm - m
-725
-571
-417
-262
-108
46
200
X (m)
Predicted Data
3841
2785
2019
1464
1061
769.6
558
-725
-571
-417
-262
-108
46
200
X (m)

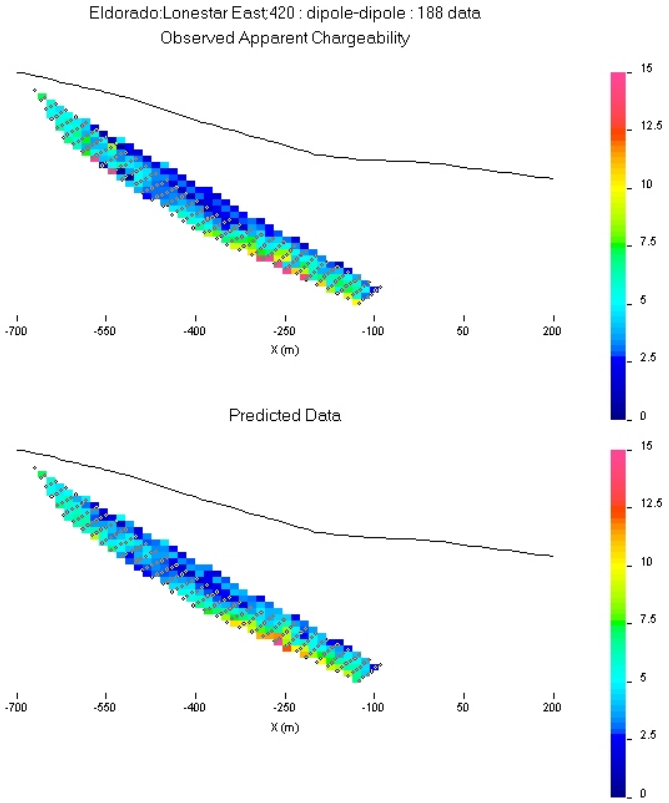

Resistivity Model
Depth (m)
0
85
171
256
-725
-567
-408
-250
-92
67
225
X (m)
1.11e+004
6560
3875
2289
1352
798.8
471.9
Ohm - m
Iterations done: 8
Data misfit
1000
10
Model Norm
Target misfit = 195.00
1
2
3
4
5
6
7
8
Iteration #

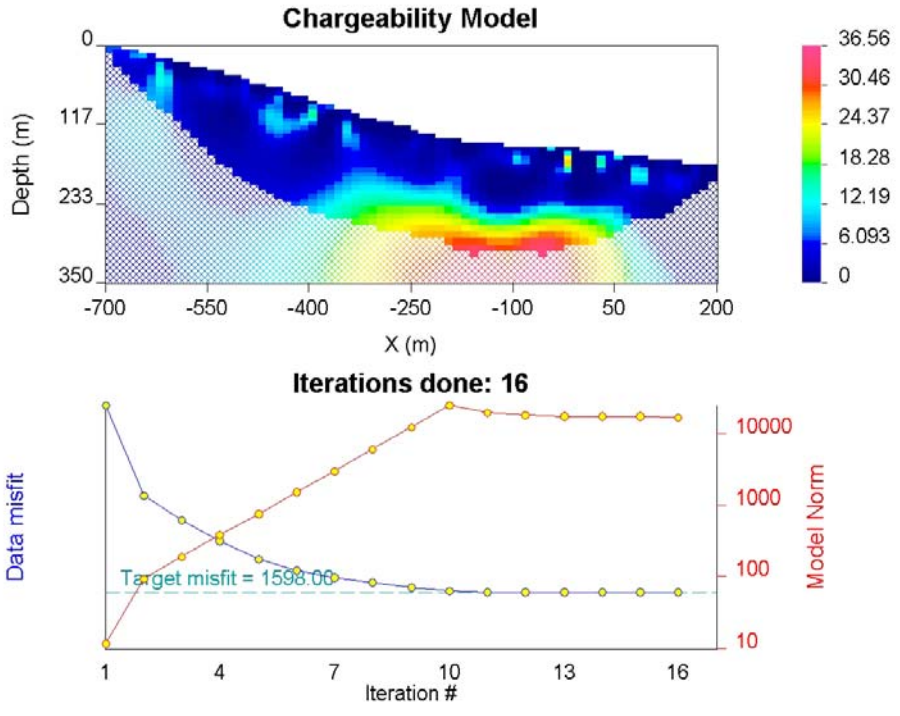

Eldorado:Lonestar East:360 : dipole-dipole : 195 data
Observed Apparent Chargeability
9.8
8.167
6.533
4.9
3.267
1.633
0
-725
-571
-417
-262
-108
46
200
X (m)
Predicted Data
9.8
8.167
6.533
4.9
3.267
1.633
0
-725
-571
-417
-262
-108
46
200
X (m)

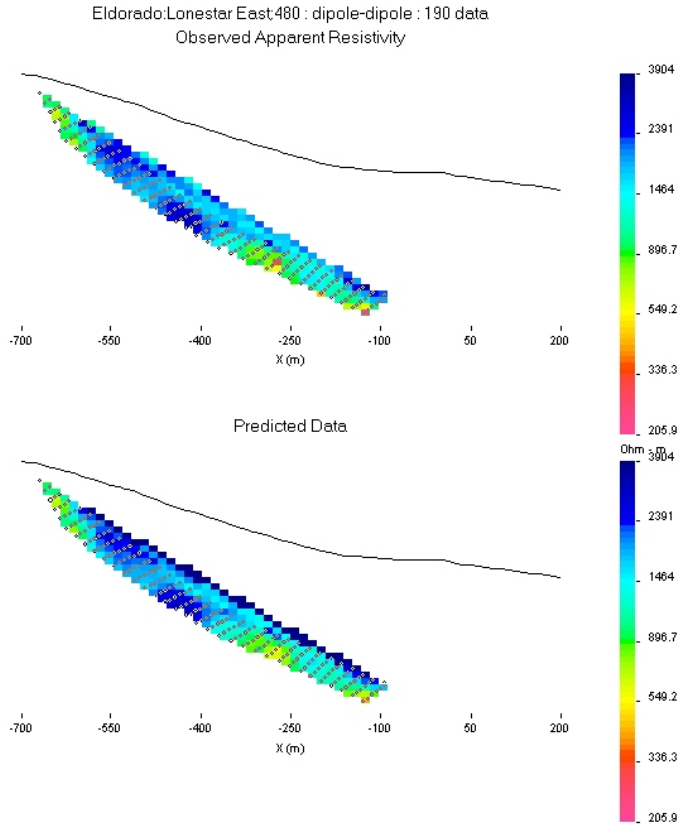

Chargeability Model
Depth (m)
0
92
183
275
-725
-567
-408
-250
-92
67
225
X (m)
10.41
8.676
6.941
5.205
3.47
1.735
0
Iterations done: 10
Data misfit
1000
Target misfit = 780.00
100
10
Model Norm
1
3
5
7
9
Iteration #

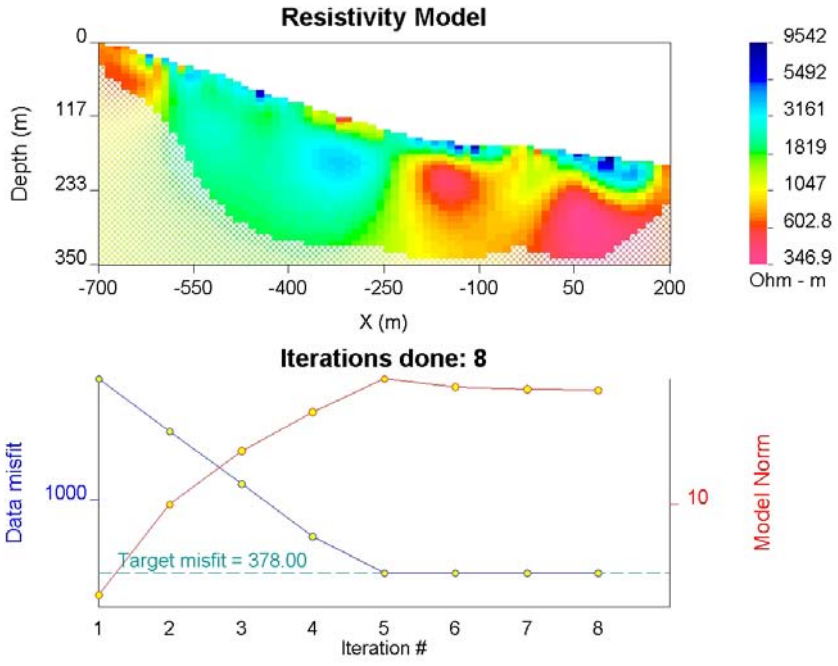

Eldorado:Lonestar East;420 : dipole-dipole : 188 data
Observed Apparent Resistivity
4533
3240
2316
1656
1184
846.1
604.9
Ohm - m
-700
-550
-400
-250
-100
50
200
X (m)
Predicted Data
4533
3240
2316
1656
1184
846.1
604.9
-700
-550
-400
-250
-100
50
200
X (m)

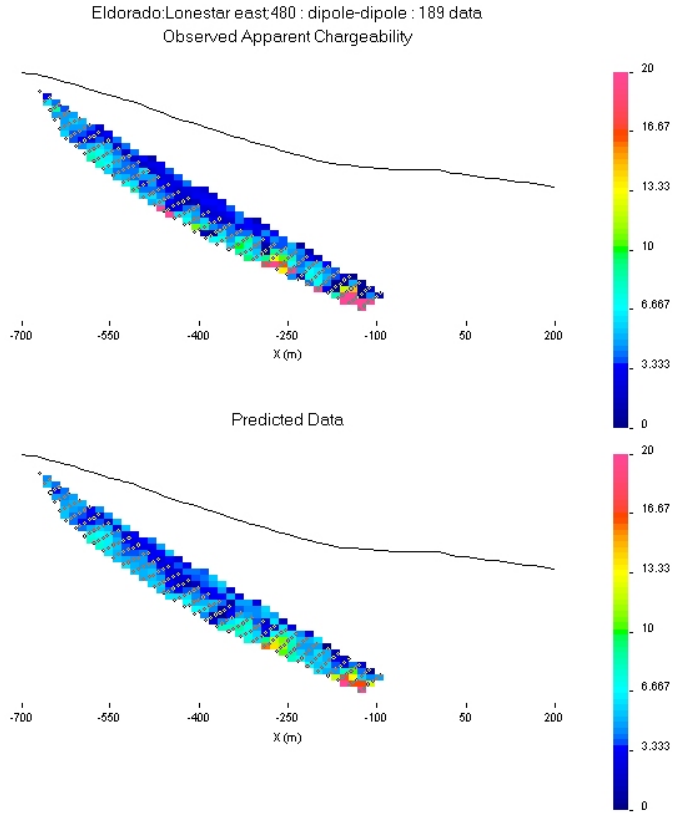

Resistivity Model
Depth (m)
0
92
183
275
-700
-550
-400
-250
-100
50
200
X (m)
8461
5390
3434
2188
1394
888
565.7
Ohm - m
Iterations done: 8
Data misfit
1000
Target misfit = 188.00
10
Model Norm
1
2
3
4
5
6
7
8
Iteration #

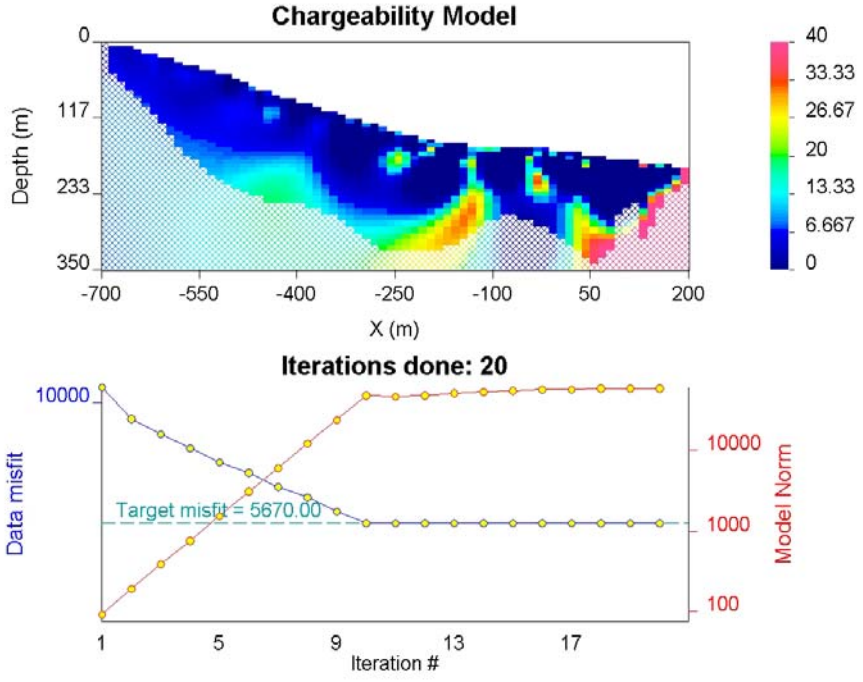

Eldorado:Lonestar East;420 : dipole-dipole : 188 data
Observed Apparent Chargeability
15
12.5
10
7.5
5
2.5
0
-700
-550
-400
-250
-100
50
200
X (m)
Predicted Data
15
12.5
10
7.5
5
2.5
0
-700
-550
-400
-250
-100
50
200
X (m)

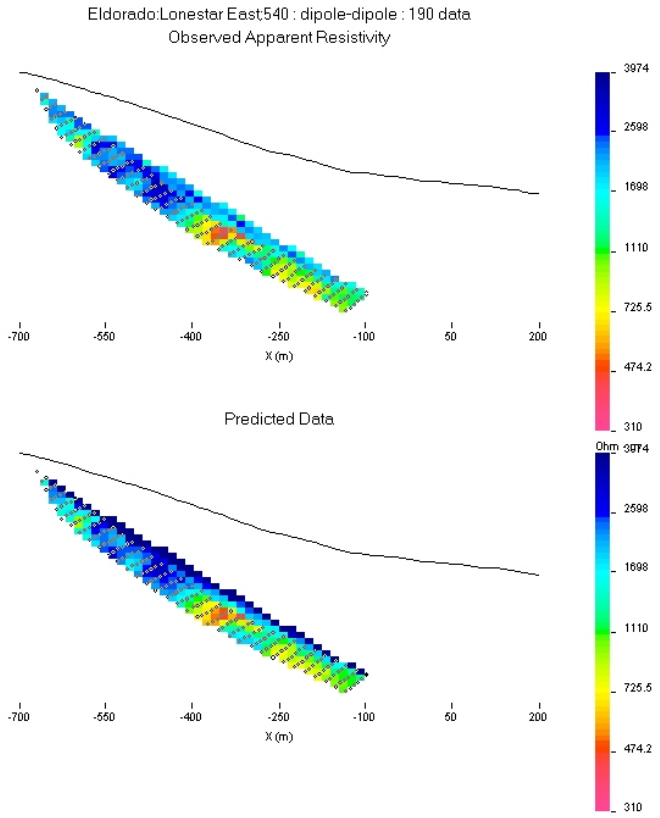

Chargeability Model
Depth (m)
0
117
233
350
-700
-550
-400
-250
-100
50
200
X (m)
36.56
30.46
24.37
18.28
12.19
6.093
0
Iterations done: 16
Data misfit
Model Norm
Target misfit = 1598.00
10000
1000
100
10
1
4
7
10
13
16
Iteration #

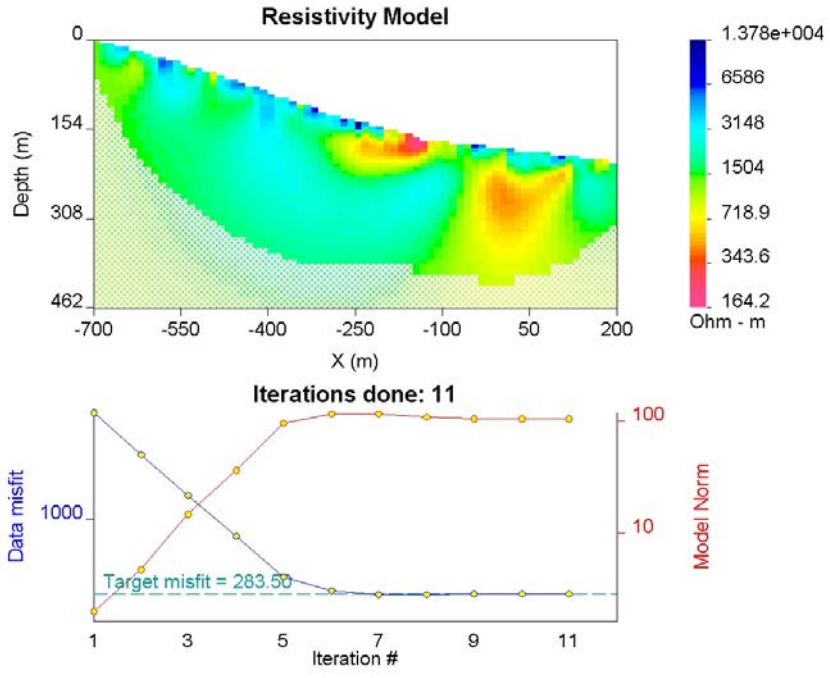

Eldorado:Lonestar East:480 : dipole-dipole : 190 data
Observed Apparent Resistivity
3904
2391
1464
896.7
549.2
336.3
205.9
-700
-550
-400
-250
-100
50
200
X (m)
Predicted Data
Ohm - m

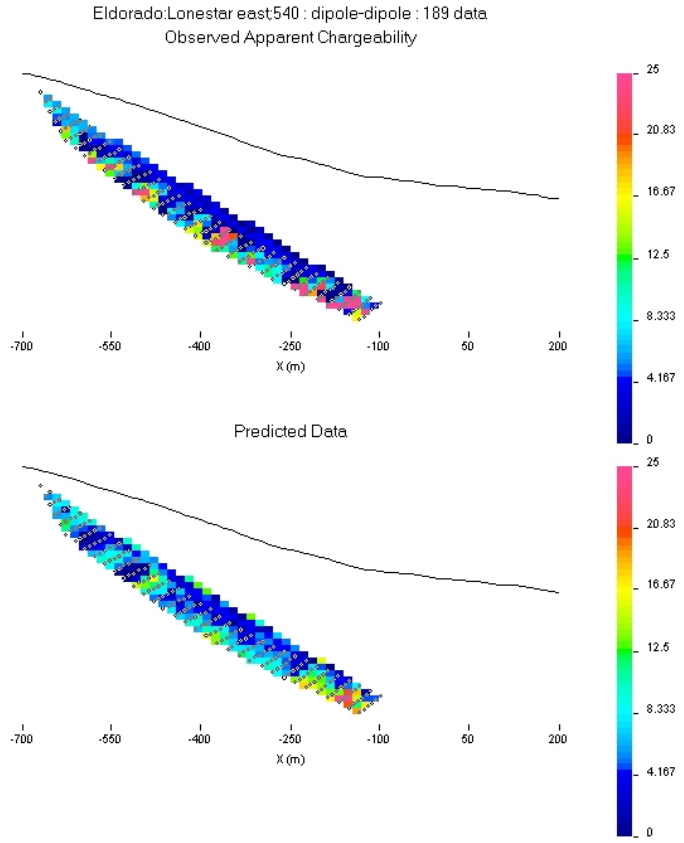

Resistivity Model
Depth (m)
0
117
233
350
9542
5492
3161
1819
1047
602.8
346.9
Ohm - m
X (m)
Iterations done: 8
Data misfit
1000
Target misfit = 378.00
Model Norm
10
Iteration #

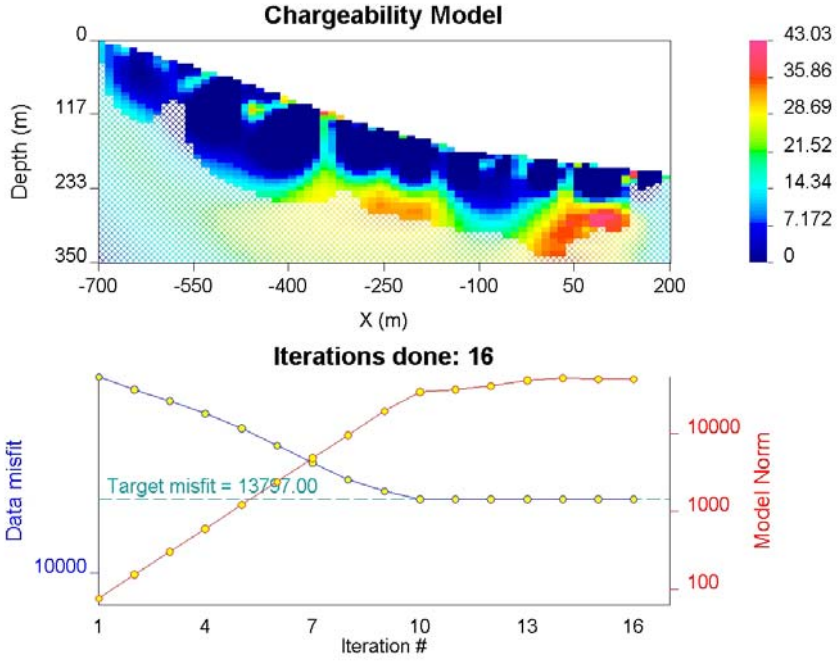

Eldorado:Lonestar east:480 : dipole-dipole : 189 data
Observed Apparent Chargeability
20
16.67
13.33
10
6.667
3.333
0
-700
-550
-400
-250
-100
50
200
X (m)
Predicted Data
20
16.67
13.33
10
6.667
3.333
0
-700
-550
-400
-250
-100
50
200
X (m)

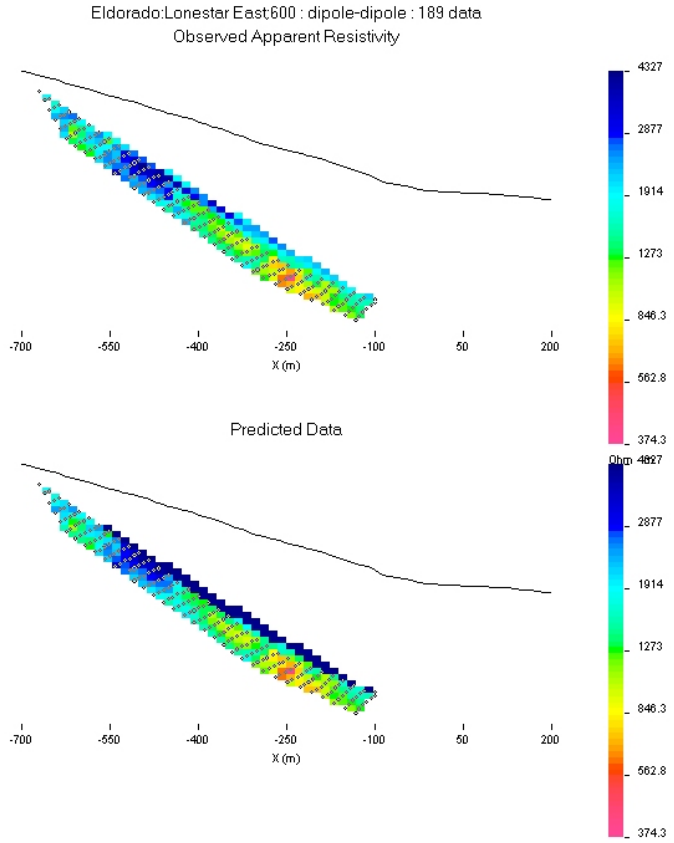

Chargeability Model
Depth (m)
0
117
233
350
-700
-550
-400
-250
-100
50
200
X (m)
40
33.33
26.67
20
13.33
6.667
0
Iterations done: 20
Data misfit
10000
Target misfit = 5670.00
Model Norm
10000
1000
100
1
5
9
13
17
Iteration #

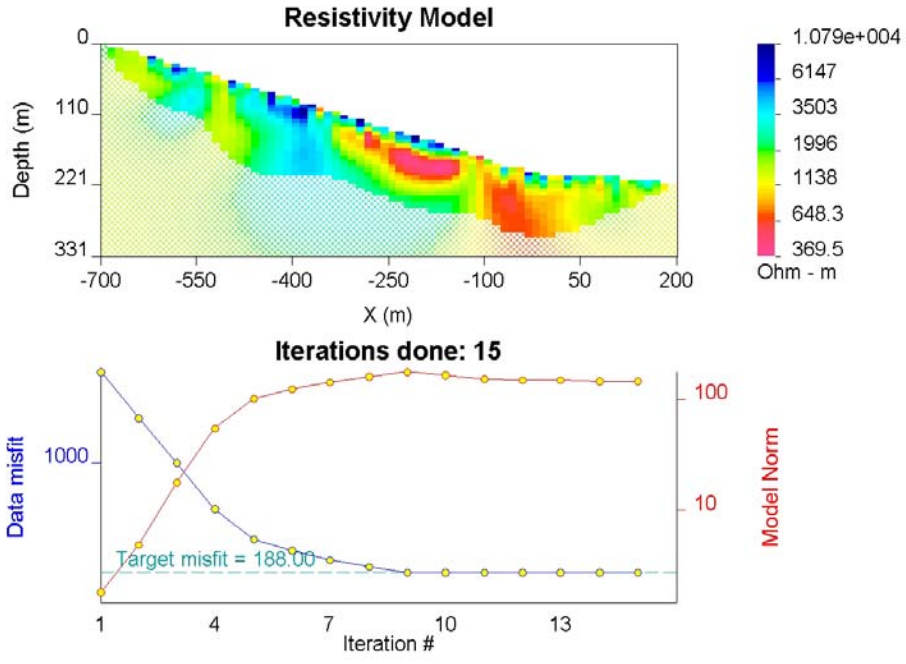

Eldorado:Lonestar East;540 : dipole-dipole : 190 data
Observed Apparent Resistivity
3974
2598
1698
1110
725.5
474.2
310
-700
-550
-400
-250
-100
50
200
X (m)
Predicted Data
Ohm

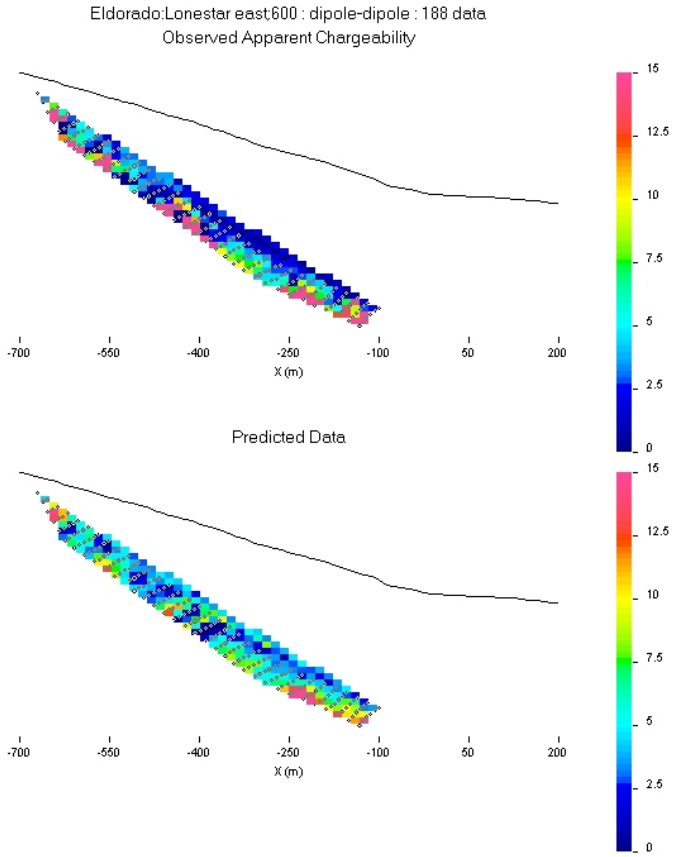

Resistivity Model
0
154
308
462
Depth (m)
-700
-550
-400
-250
-100
50
200
X (m)
1.378e+004
6586
3148
1504
718.9
343.6
164.2
Ohm - m
Iterations done: 11
Data misfit
1000
100
10
Model Norm
Target misfit = 283.50
1
3
5
7
9
11
Iteration #

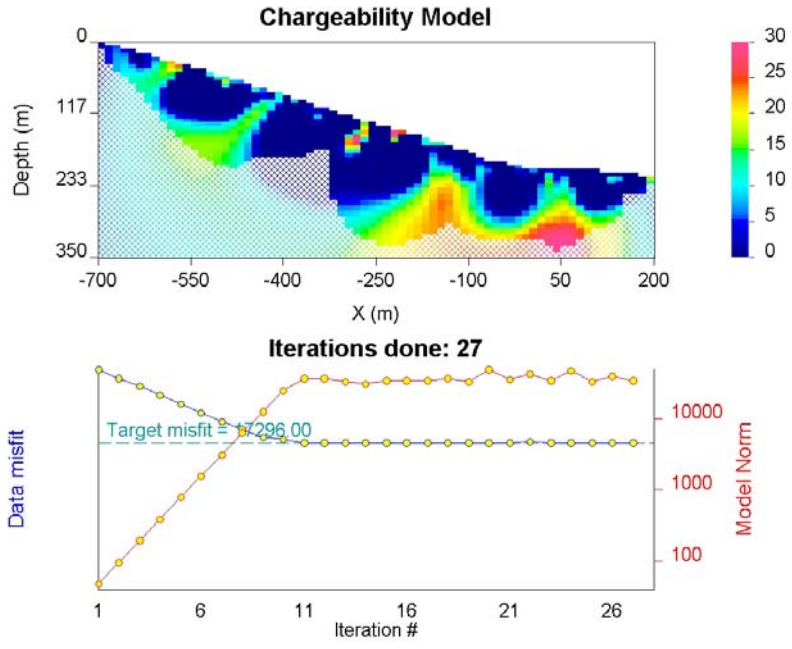

Eldorado:Lonestar east:540 : dipole-dipole : 189 data
Observed Apparent Chargeability
25
20.83
16.67
12.5
8.333
4.167
0
-700
-550
-400
-250
-100
50
200
X (m)
Predicted Data
25
20.83
16.67
12.5
8.333
4.167
0
-700
-550
-400
-250
-100
50
200
X (m)

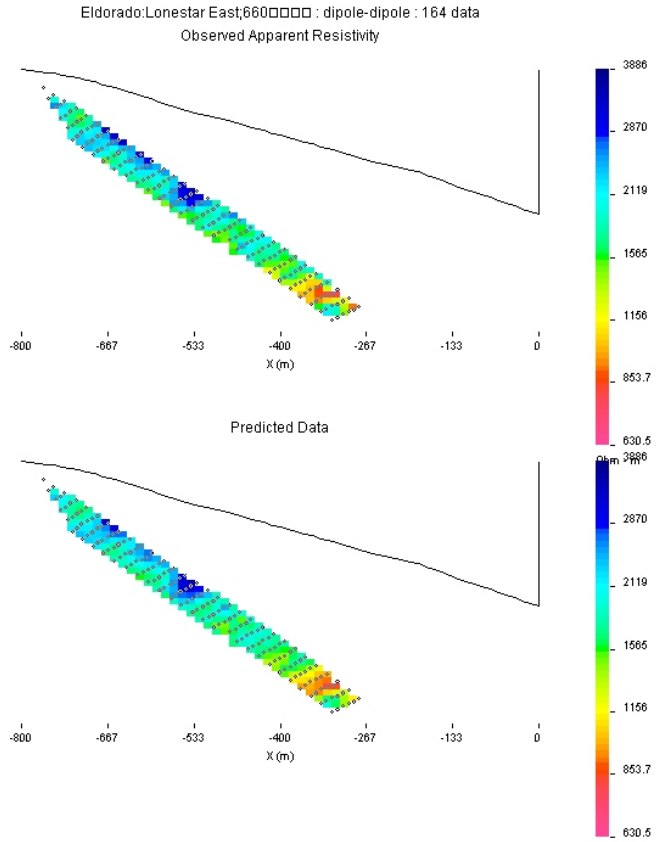

Chargeability Model
Depth (m)
0
117
233
350
-700
-550
-400
-250
-100
50
200
X (m)
43.03
35.86
28.69
21.52
14.34
7.172
0
Iterations done: 16
Data misfit
Target misfit = 13797.00
10000
Model Norm
10000
1000
100
1
4
7
10
13
16
Iteration #

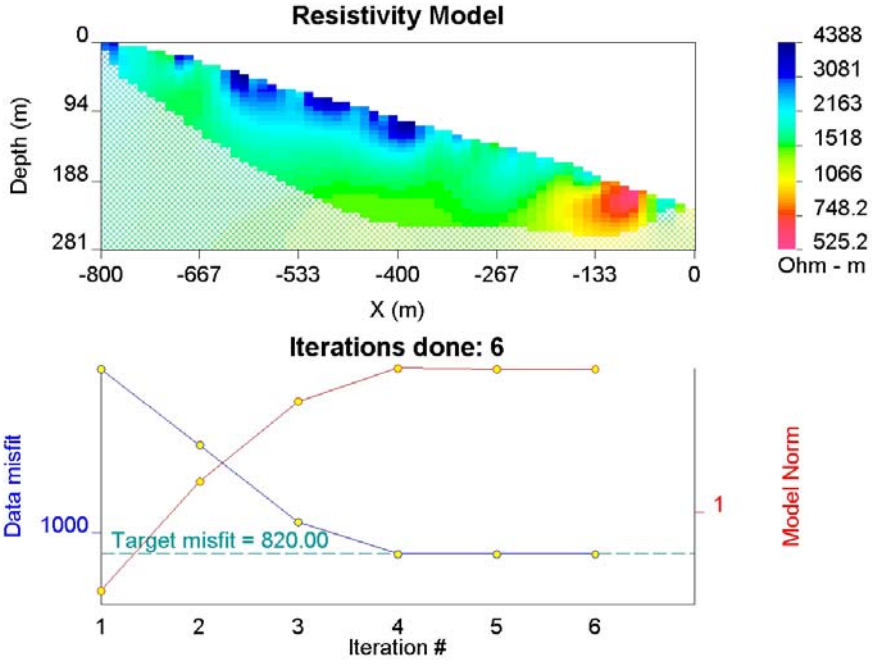

Eldorado:Lonestar East:600 : dipole-dipole : 189 data
Observed Apparent Resistivity
4327
2877
1914
1273
846.3
562.8
374.3
-700
-550
-400
-250
-100
50
200
X (m)
Predicted Data
Ohm - m

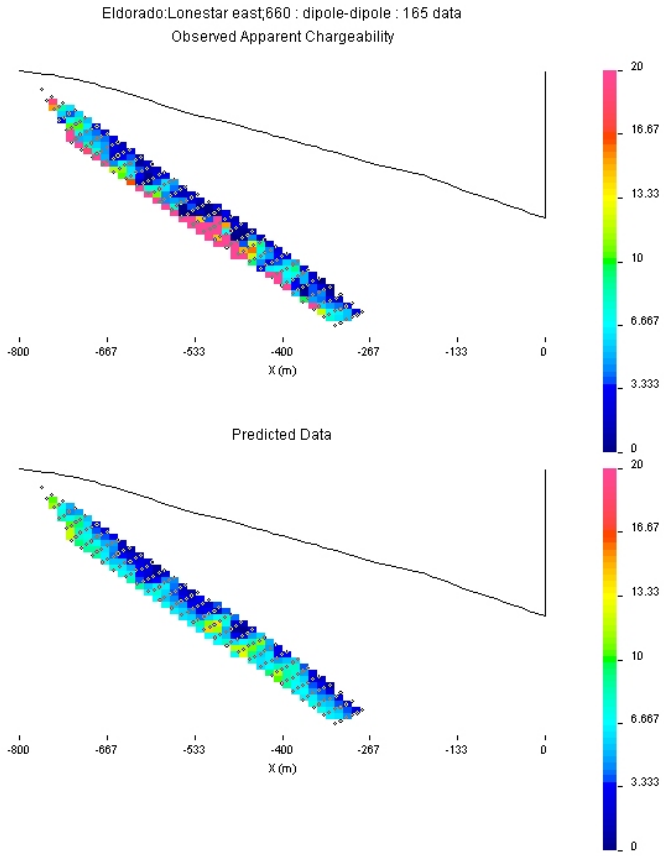

Resistivity Model
Depth (m)
0
110
221
331
-700
-550
-400
-250
-100
50
200
X (m)
1.079e+004
6147
3503
1996
1138
648.3
369.5
Ohm - m
Iterations done: 15
Data misfit
1000
Target misfit = 188.00
100
10
Model Norm
1
4
7
10
13
Iteration #

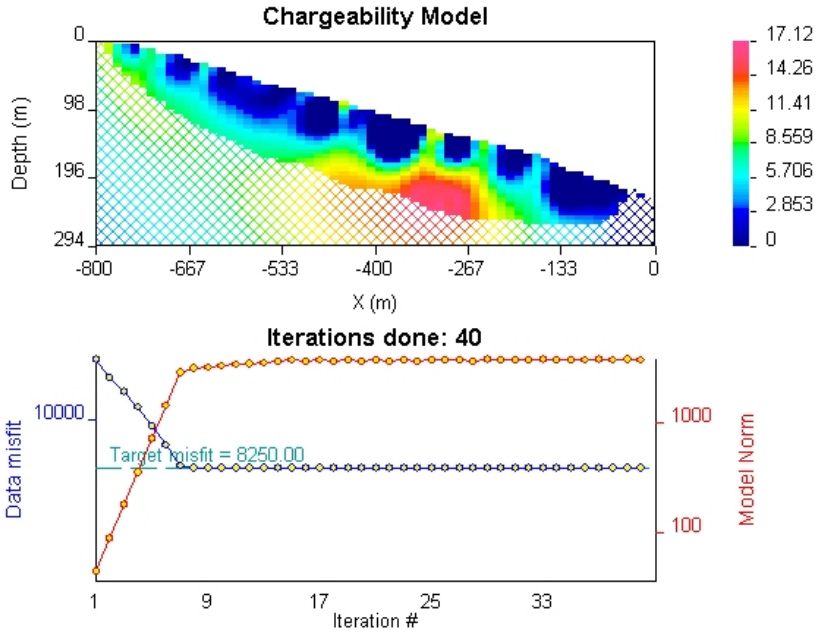

Eldorado:Lonestar east:600 : dipole-dipole : 188 data
Observed Apparent Chargeability
15
12.5
10
7.5
5
2.5
0
-700
-550
-400
-250
-100
50
200
X (m)
Predicted Data
15
12.5
10
7.5
5
2.5
0
-700
-550
-400
-250
-100
50
200
X (m)

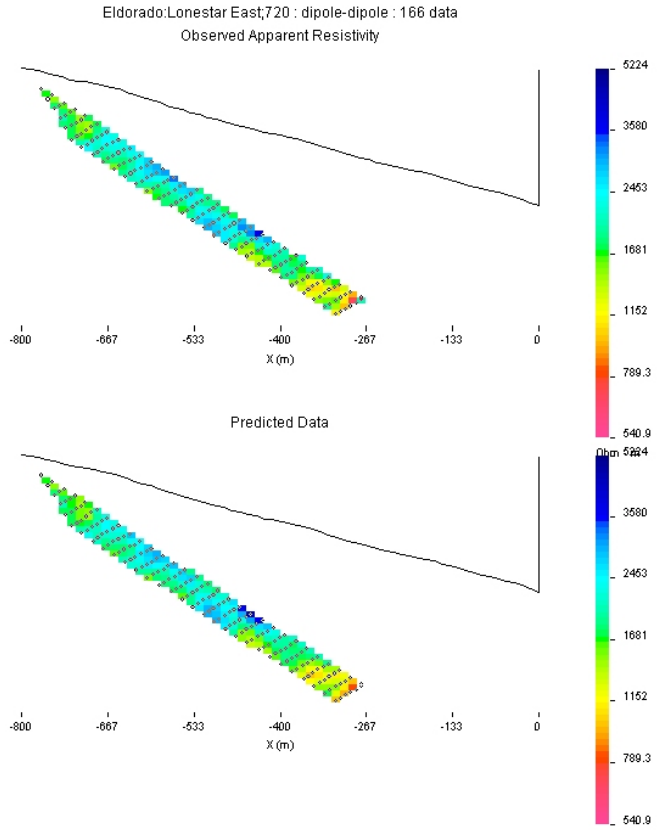

Chargeability Model
Depth (m)
0
117
233
350
-700
-550
-400
-250
-100
50
200
X (m)
30
25
20
15
10
5
0
Iterations done: 27
Data misfit
Target misfit = 17296.00
Model Norm
10000
1000
100
1
6
11
16
21
26
Iteration #

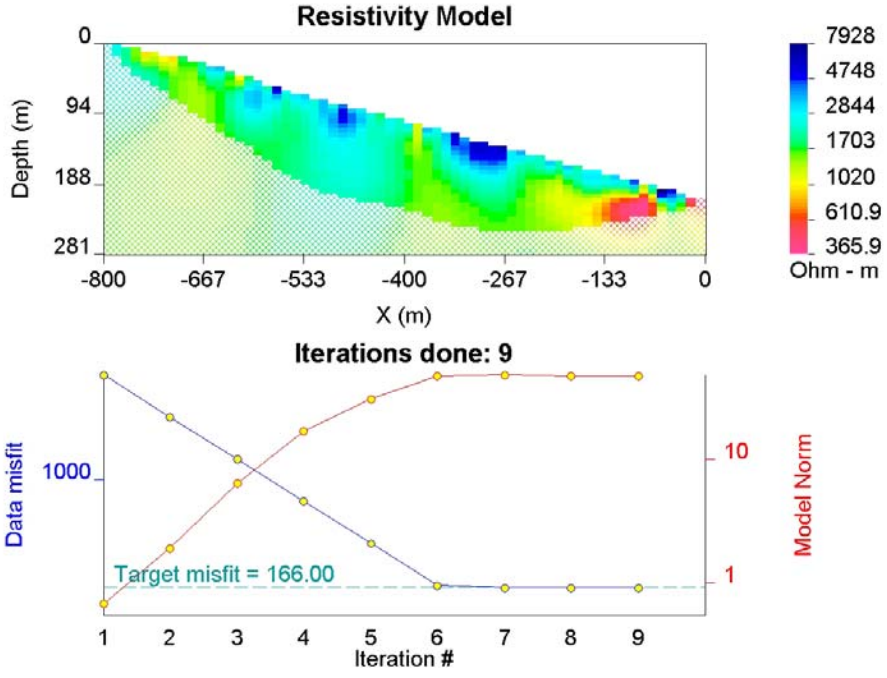

Eldorado:Lonestar East;660□□□□ : dipole-dipole : 164 data
Observed Apparent Resistivity
3886
2870
2119
1565
1156
853.7
630.5
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
Ohm - m
3886
2870
2119
1565
1156
853.7
630.5
-800
-667
-533
-400
-267
-133
0
X (m)

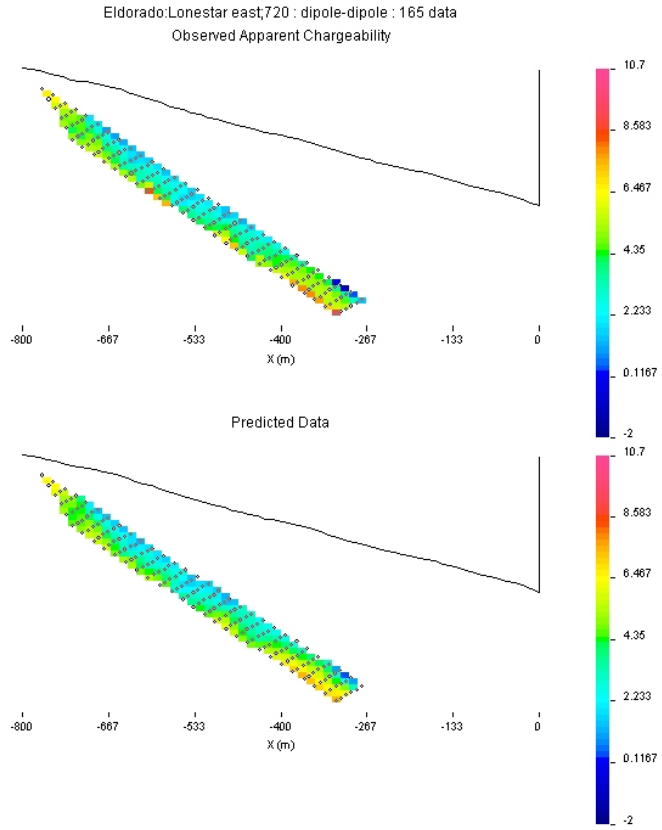

Resistivity Model
Depth (m)
0
94
188
281
-800
-667
-533
-400
-267
-133
0
X (m)
4388
3081
2163
1518
1066
748.2
525.2
Ohm - m
Iterations done: 6
Data misfit
1000
Target misfit = 820.00
1
Model Norm
1
2
3
4
5
6
Iteration #

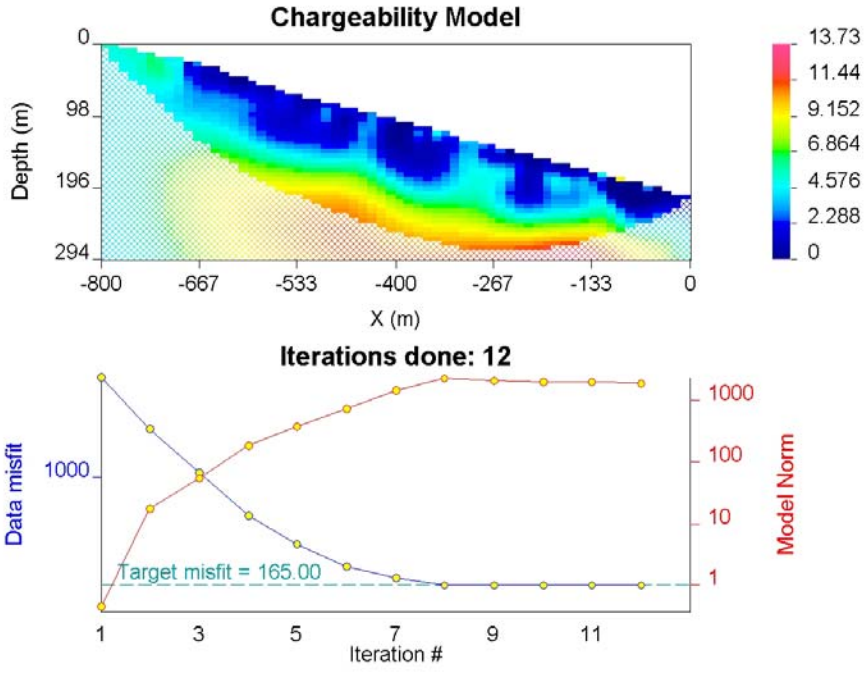

Eldorado:Lonestar east;660 : dipole-dipole : 165 data
Observed Apparent Chargeability
20
16.67
13.33
10
6.667
3.333
0
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
20
16.67
13.33
10
6.667
3.333
0
-800
-667
-533
-400
-267
-133
0
X (m)

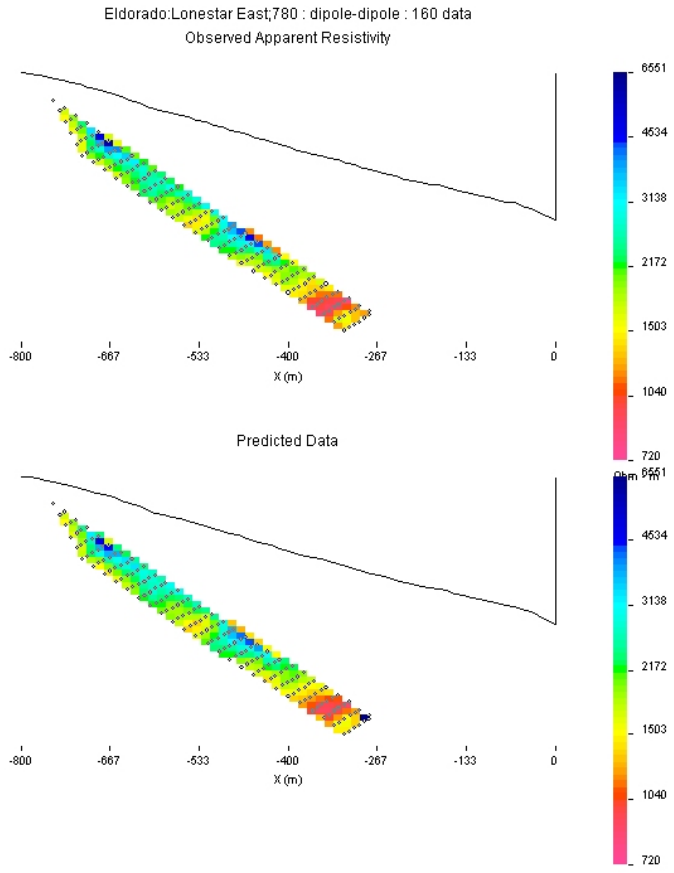

Chargeability Model
Depth (m)
0
98
196
294
-800
-667
-533
-400
-267
-133
0
X (m)
17.12
14.26
11.41
8.559
5.706
2.853
0
Iterations done: 40
Data misfit
10000
Target misfit = 8250.00
1000
100
Model Norm
1
9
17
25
33
Iteration #

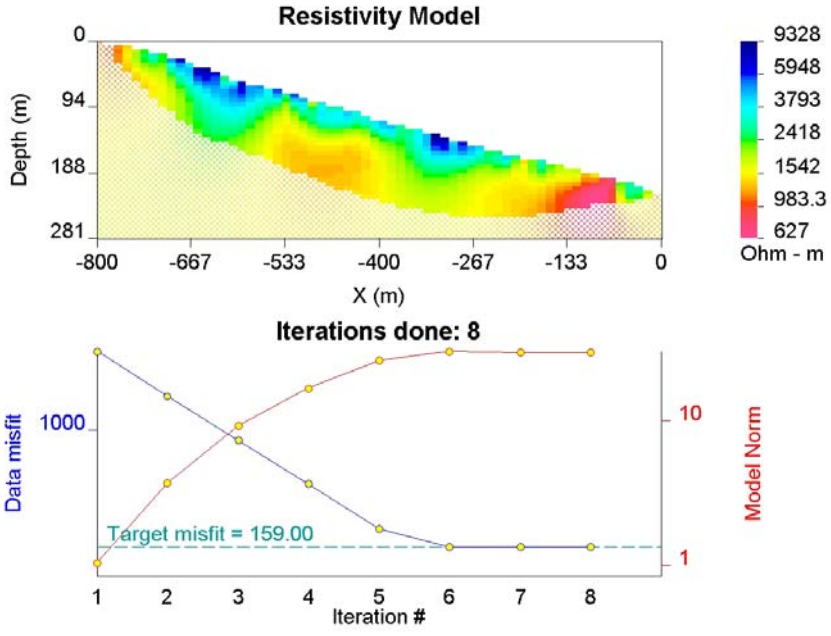

Eldorado:Lonestar East;720 : dipole-dipole : 166 data
Observed Apparent Resistivity
5224
3580
2453
1681
1152
789.3
540.9
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
Ohm - m
5224
3580
2453
1681
1152
789.3
540.9
-800
-667
-533
-400
-267
-133
0
X (m)

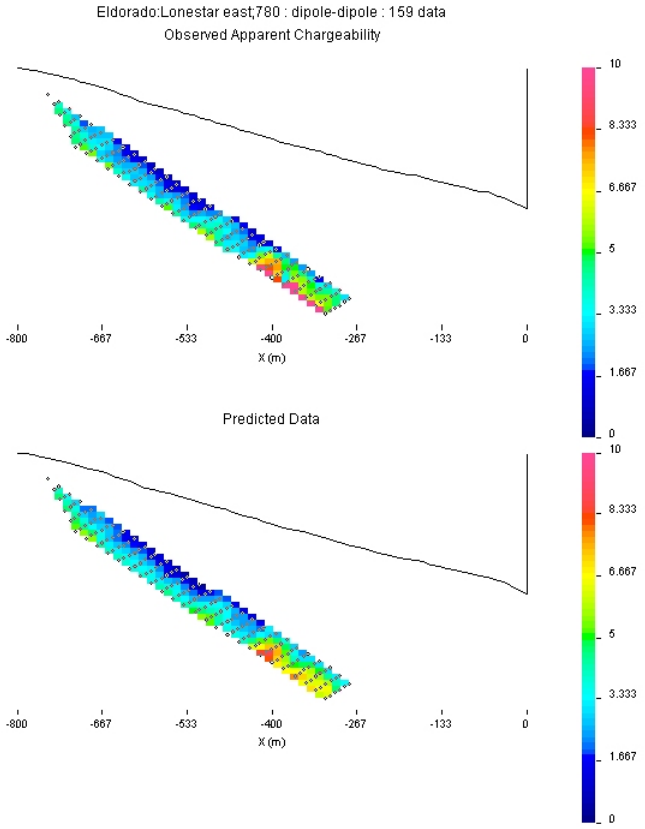

Resistivity Model
Depth (m)
0
94
188
281
-800
-667
-533
-400
-267
-133
0
X (m)
7928
4748
2844
1703
1020
610.9
365.9
Ohm - m
Iterations done: 9
Data misfit
1000
Target misfit = 166.00
10
1
Model Norm
1
2
3
4
5
6
7
8
9
Iteration #

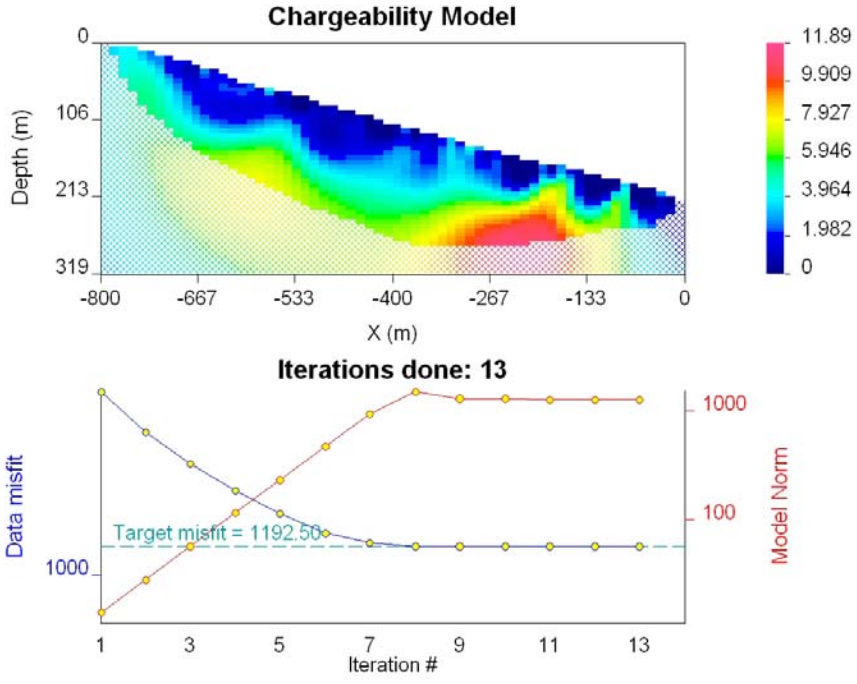

Eldorado:Lonestar east;720 : dipole-dipole : 165 data
Observed Apparent Chargeability
10.7
8.583
6.467
4.35
2.233
0.1167
-2
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
10.7
8.583
6.467
4.35
2.233
0.1167
-2
-800
-667
-533
-400
-267
-133
0
X (m)

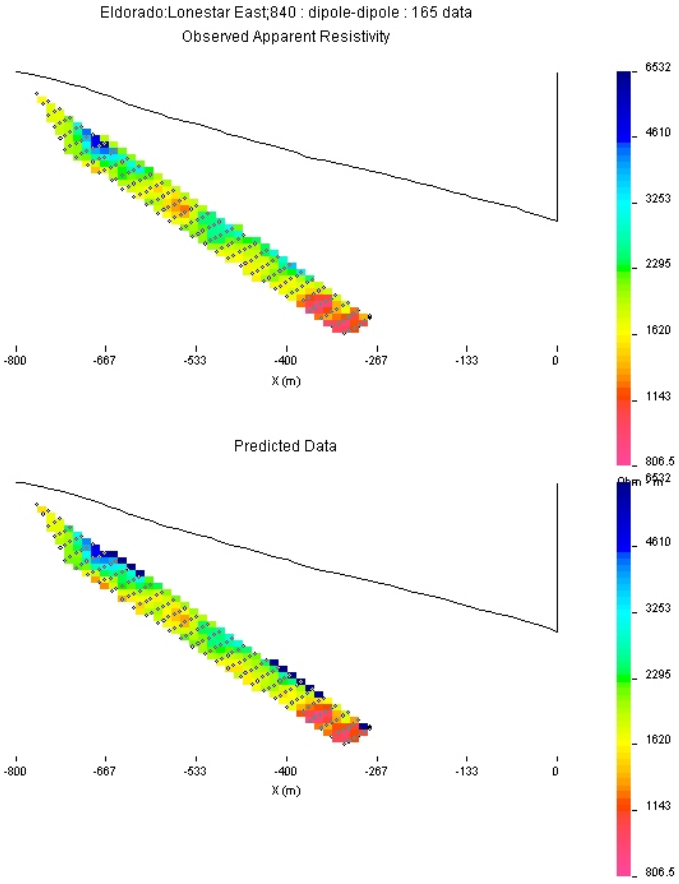

Chargeability Model
Depth (m)
0
98
196
294
-800
-667
-533
-400
-267
-133
0
X (m)
13.73
11.44
9.152
6.864
4.576
2.288
0
Iterations done: 12
Data misfit
1000
Target misfit = 165.00
1
3
5
7
9
11
Iteration #
1000
100
10
1
Model Norm

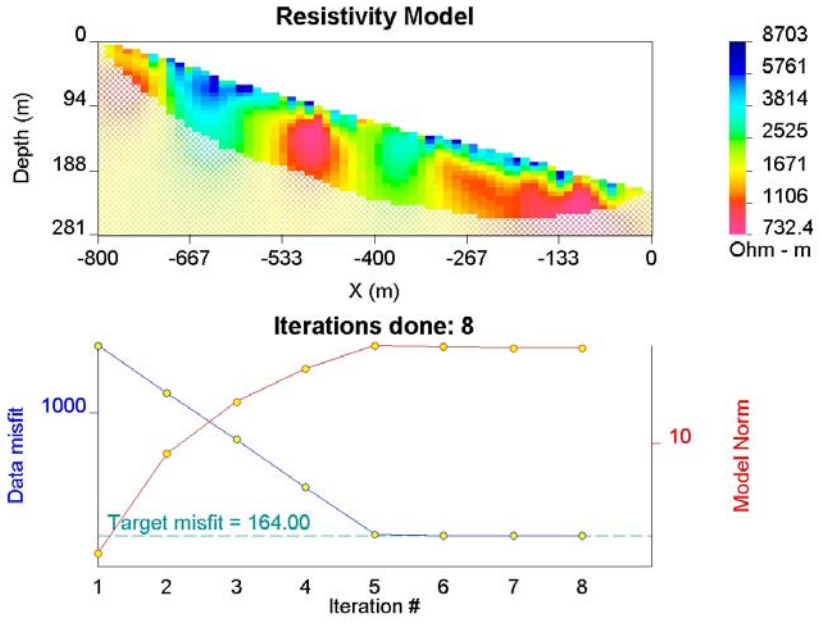

Eldorado:Lonestar East;780 : dipole-dipole : 160 data
Observed Apparent Resistivity
6551
4534
3138
2172
1503
1040
720
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
Ohm - m
6551
4534
3138
2172
1503
1040
720
-800
-667
-533
-400
-267
-133
0
X (m)

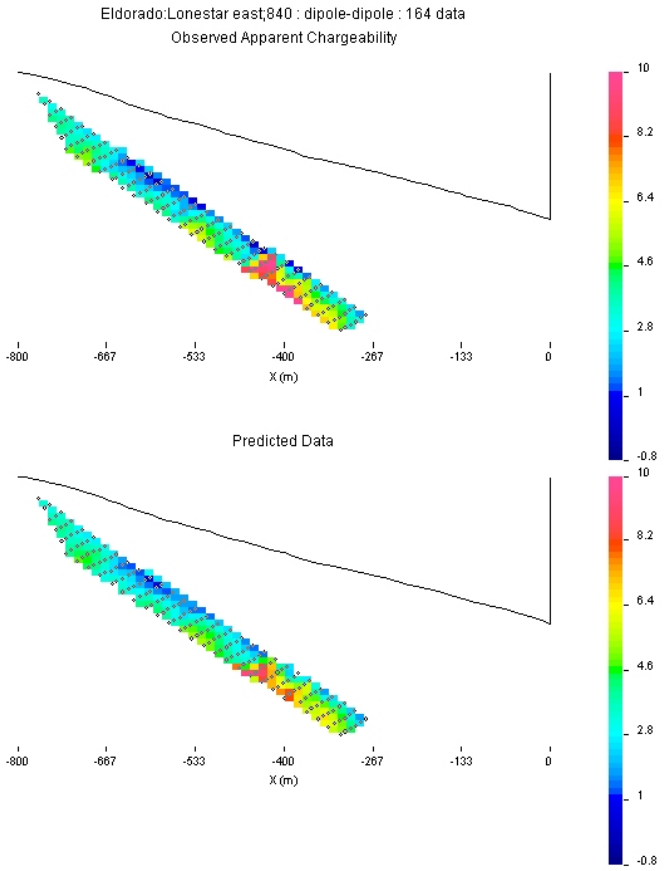

Resistivity Model
Depth (m)
0
94
188
281
-800
-667
-533
-400
-267
-133
0
X (m)
9328
5948
3793
2418
1542
983.3
627
Ohm - m
Iterations done: 8
Data misfit
1000
Target misfit = 159.00
Model Norm
10
1
1
2
3
4
5
6
7
8
Iteration #

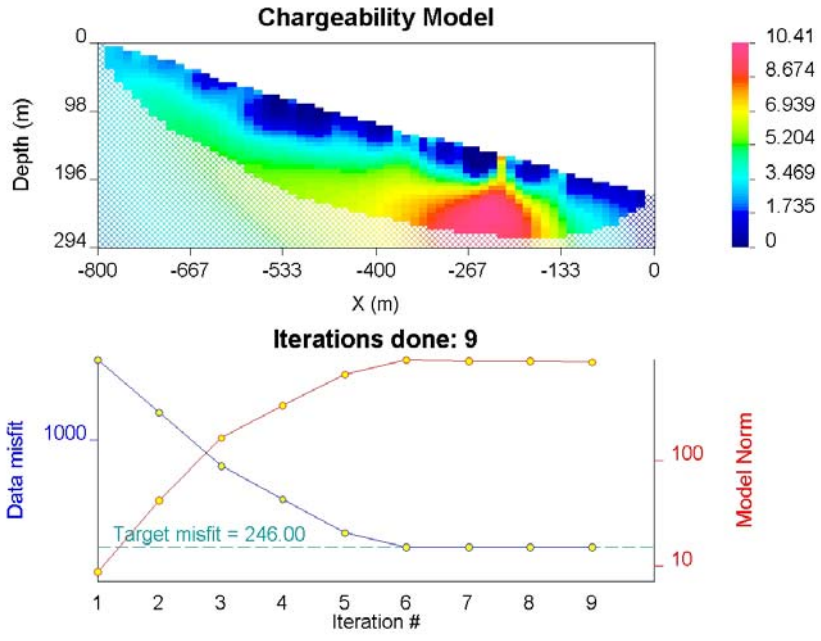

Eldorado:Lonestar east;780 : dipole-dipole : 159 data
Observed Apparent Chargeability
10
8.333
6.667
5
3.333
1.667
0
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
10
8.333
6.667
5
3.333
1.667
0
-800
-667
-533
-400
-267
-133
0
X (m)

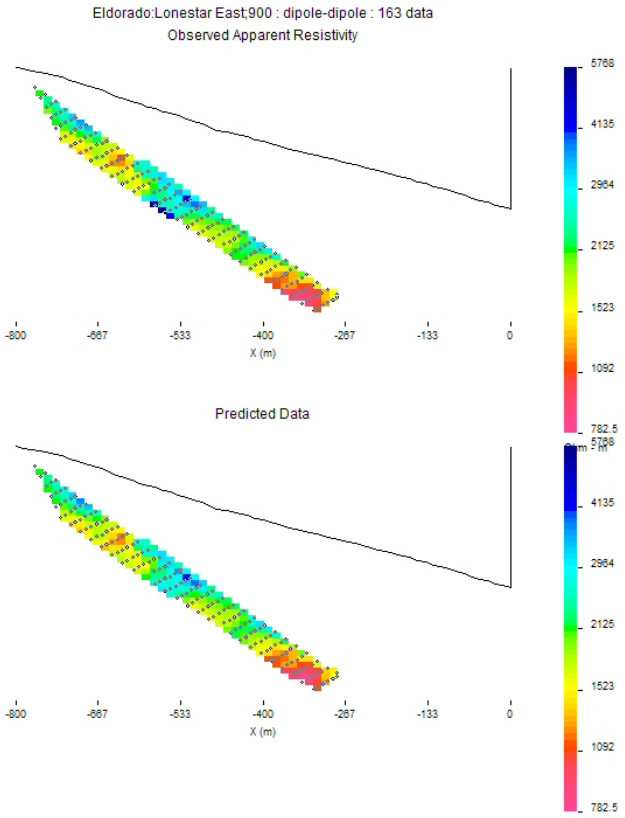

Chargeability Model
Depth (m)
0
106
213
319
-800
-667
-533
-400
-267
-133
0
X (m)
11.89
9.909
7.927
5.946
3.964
1.982
0
Iterations done: 13
Data misfit
1000
Target misfit = 1192.50
1000
100
Model Norm
1
3
5
7
9
11
13
Iteration #

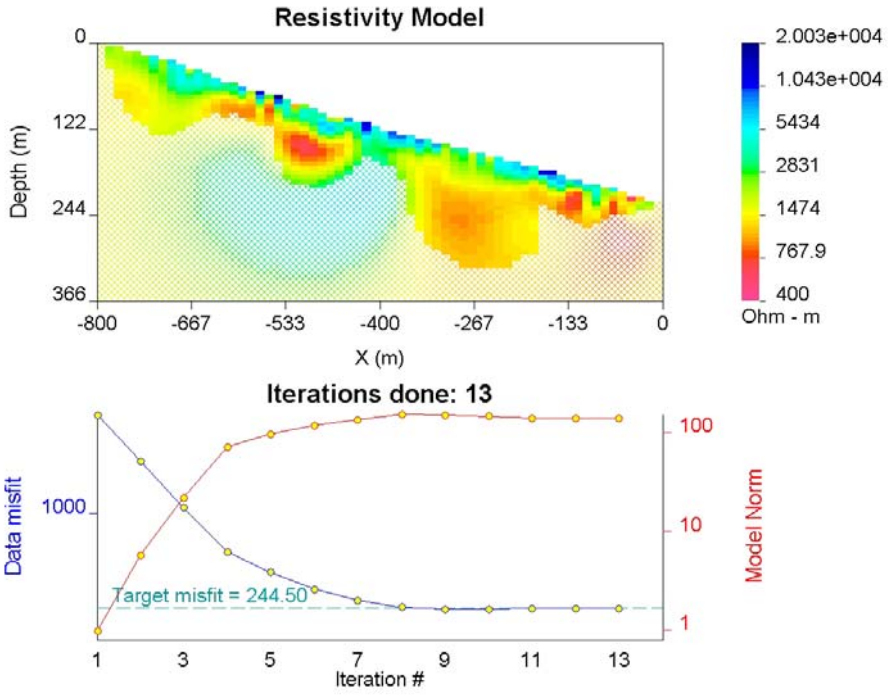

Eldorado:Lonestar East;840 : dipole-dipole : 165 data
Observed Apparent Resistivity
6532
4610
3253
2295
1620
1143
806.5
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
Ohm - m

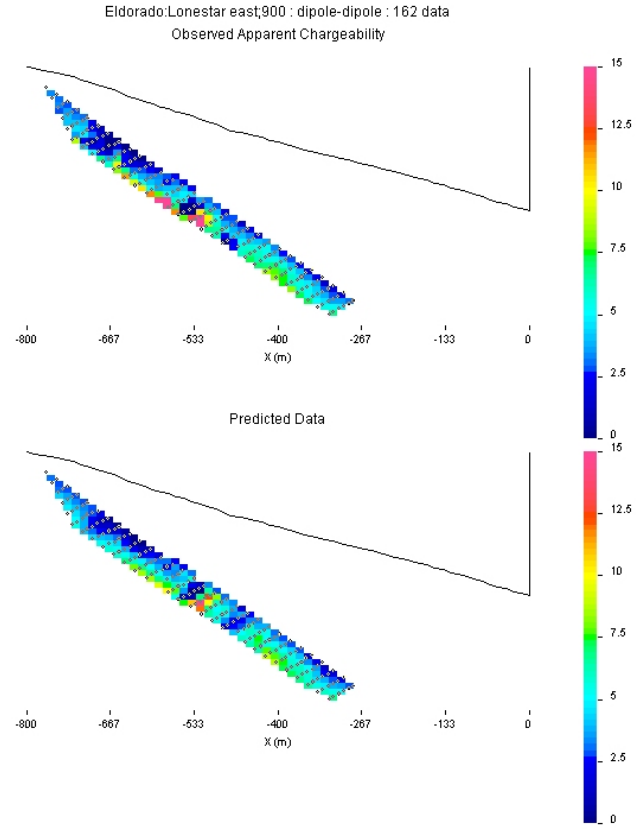

Resistivity Model
Depth (m)
0
94
188
281
-800
-667
-533
-400
-267
-133
0
X (m)
8703
5761
3814
2525
1671
1106
732.4
Ohm - m
Iterations done: 8
Data misfit
1000
Target misfit = 164.00
10
Model Norm
1
2
3
4
5
6
7
8
Iteration #

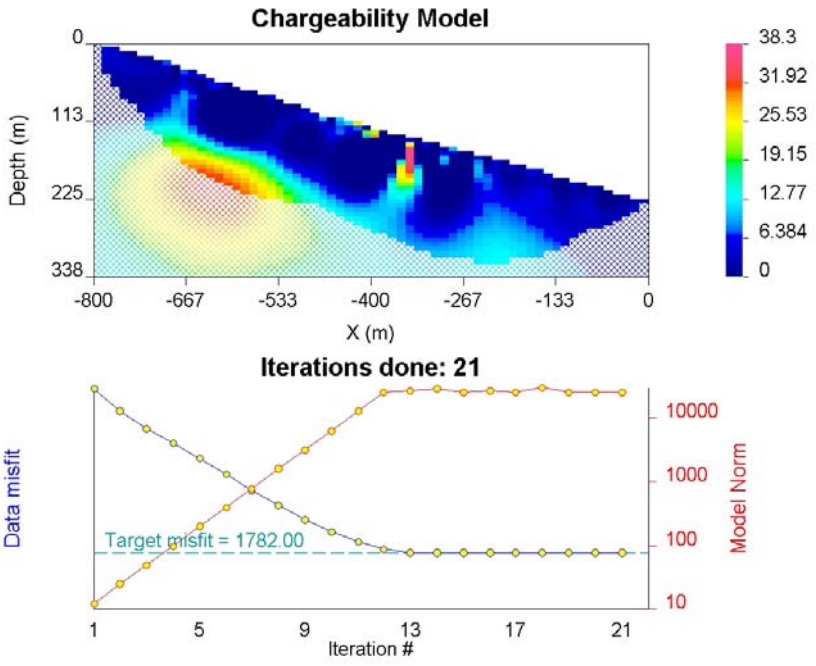

Eldorado:Lonestar east;840 : dipole-dipole : 164 data
Observed Apparent Chargeability
10
8.2
6.4
4.6
2.8
1
-0.8
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
10
8.2
6.4
4.6
2.8
1
-0.8
-800
-667
-533
-400
-267
-133
0
X (m)

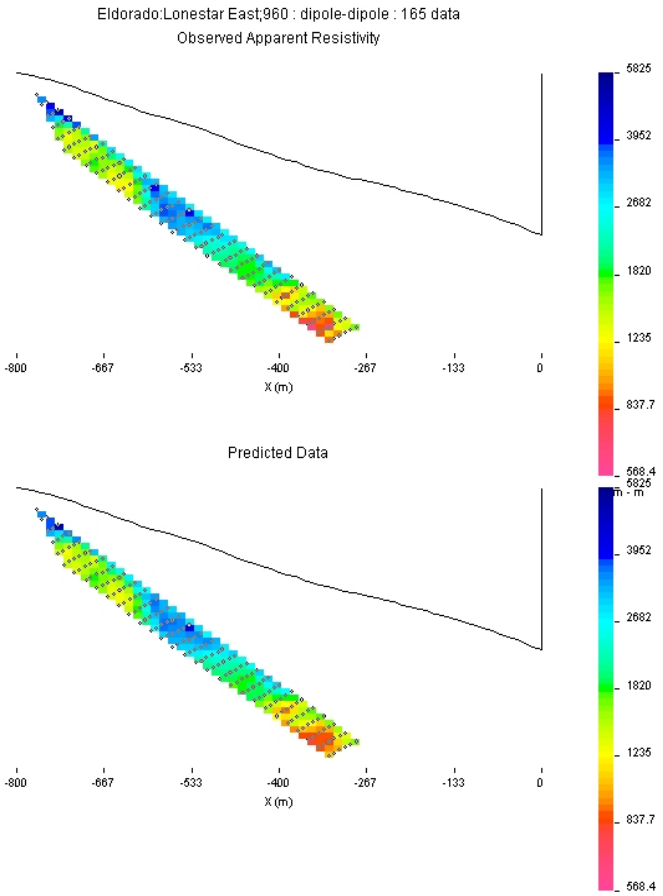

Chargeability Model
Depth (m)
0
98
196
294
-800
-667
-533
-400
-267
-133
0
X (m)
10.41
8.674
6.939
5.204
3.469
1.735
0
Iterations done: 9
Data misfit
1000
Target misfit = 246.00
100
10
Model Norm
1
2
3
4
5
6
7
8
9
Iteration #

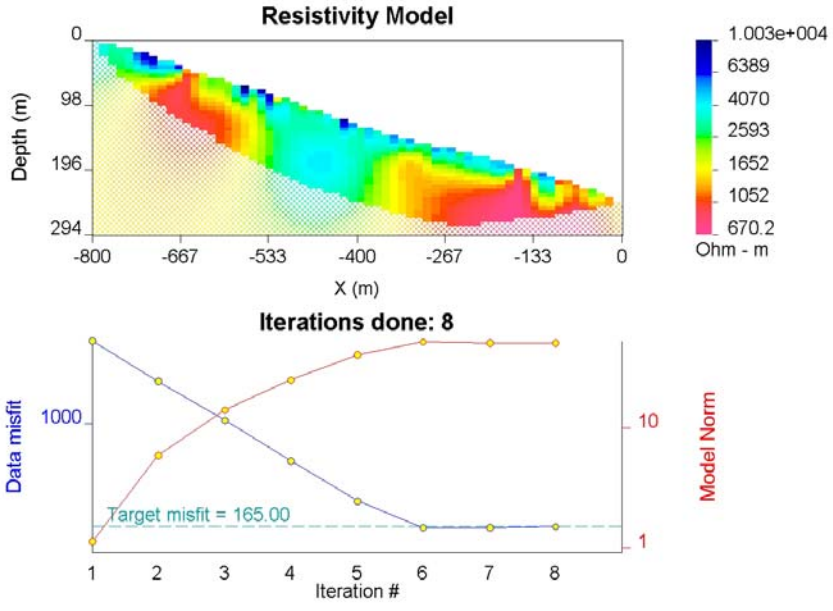

Eldorado:Lonestar East;900 : dipole-dipole : 163 data
Observed Apparent Resistivity
5768
4135
2964
2125
1523
1092
782.5
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
Ohm - m
5768
4135
2964
2125
1523
1092
782.5
-800
-667
-533
-400
-267
-133
0
X (m)

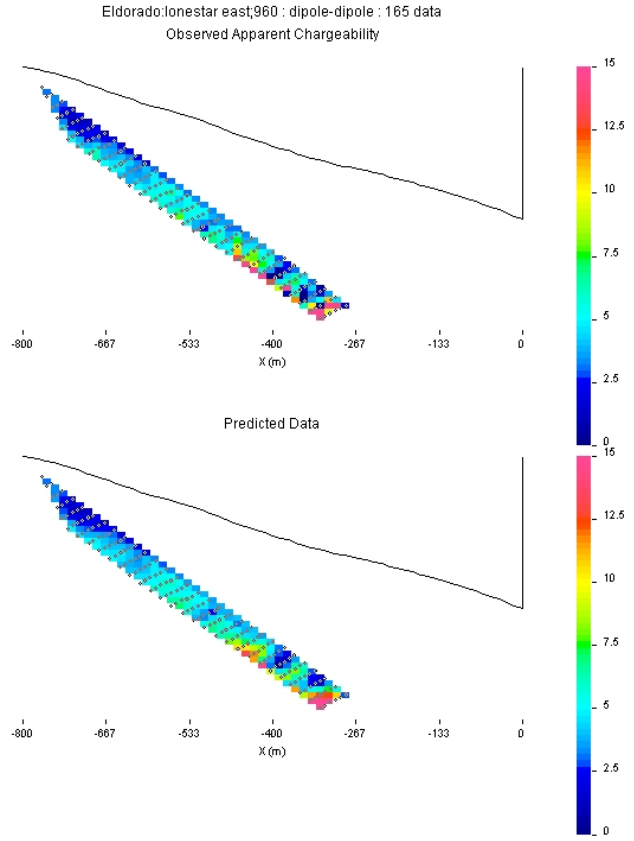

Resistivity Model
Depth (m)
0
122
244
366
-800
-667
-533
-400
-267
-133
0
X (m)
2.003e+004
1.043e+004
5434
2831
1474
767.9
400
Ohm - m
Iterations done: 13
Data misfit
1000
Target misfit = 244.50
100
10
1
Model Norm
1
3
5
7
9
11
13
Iteration #

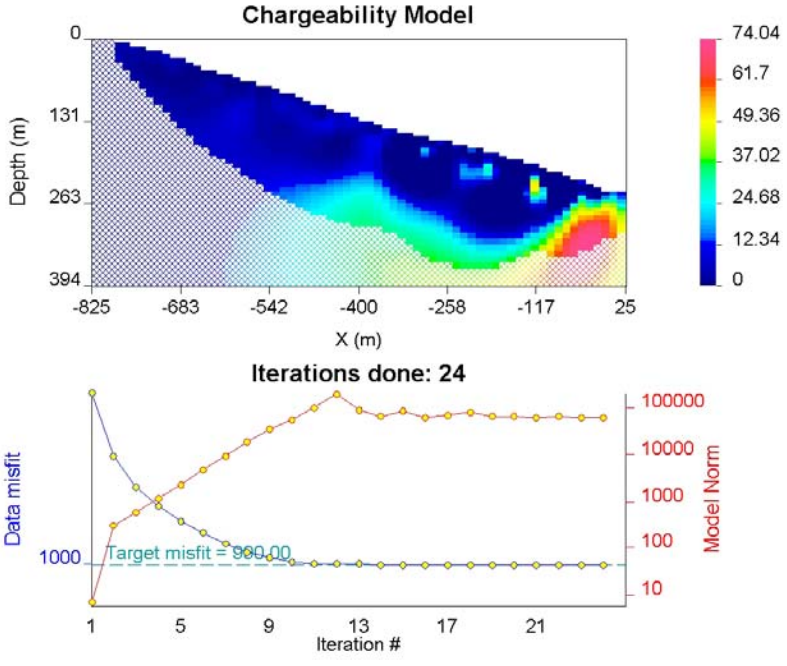

Eldorado:Lonestar east;900 : dipole-dipole : 162 data
Observed Apparent Chargeability
15
12.5
10
7.5
5
2.5
0
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
15
12.5
10
7.5
5
2.5
0
-800
-667
-533
-400
-267
-133
0
X (m)


Chargeability Model
Depth (m)
0
113
225
338
-800
-667
-533
-400
-267
-133
0
X (m)
38.3
31.92
25.53
19.15
12.77
6.384
0
Iterations done: 21
Data misfit
Model Norm
Target misfit = 1782.00
10000
1000
100
10
1
5
9
13
17
21
Iteration #

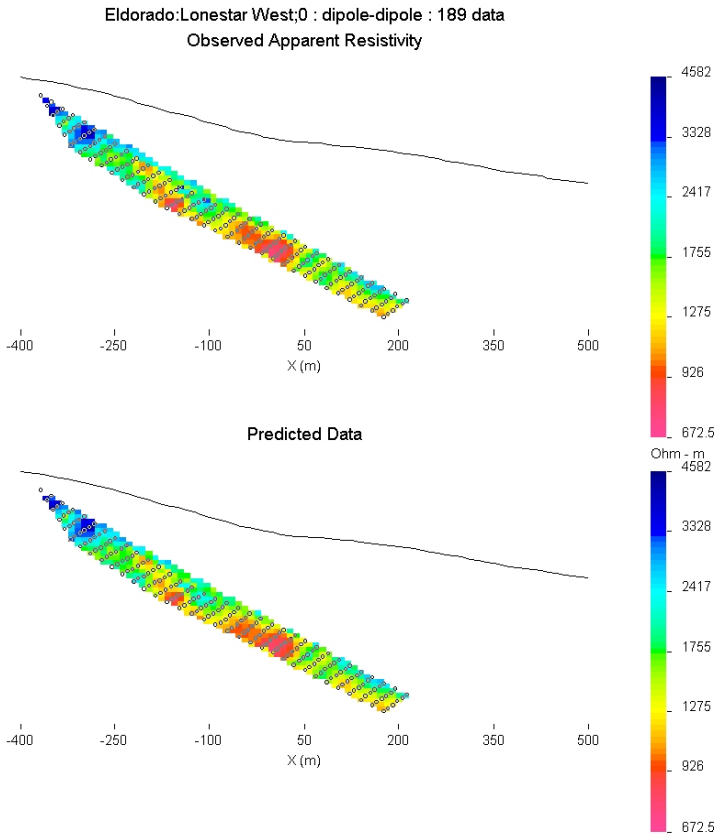

Eldorado:Lonestar East;960 : dipole-dipole : 165 data
Observed Apparent Resistivity
5825
3952
2682
1820
1235
837.7
568.4
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
5825
3952
2682
1820
1235
837.7
568.4
-800
-667
-533
-400
-267
-133
0
X (m)

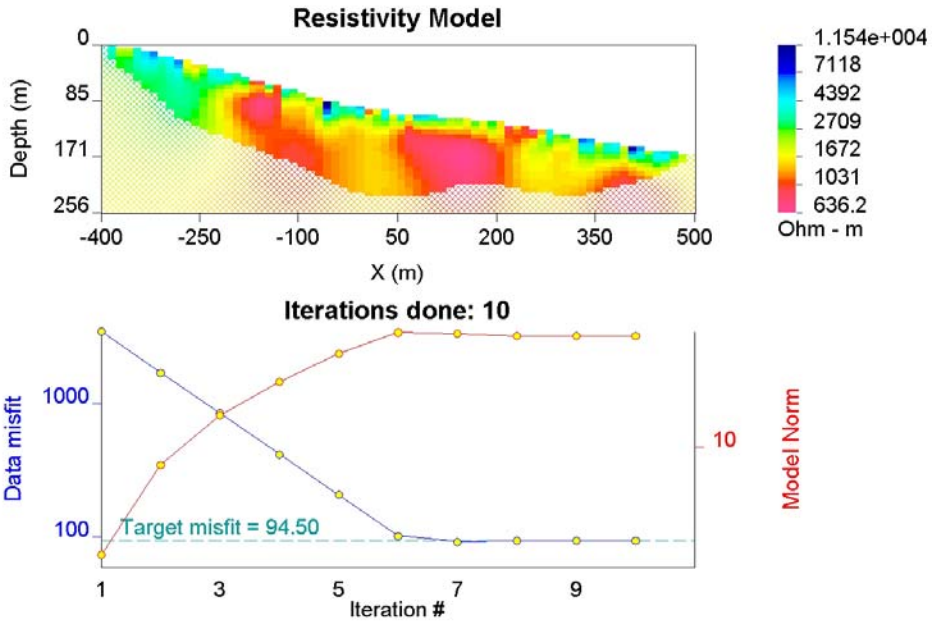

Resistivity Model
Depth (m)
0
98
196
294
-800
-667
-533
-400
-267
-133
0
X (m)
1.003e+004
6389
4070
2593
1652
1052
670.2
Ohm - m
Iterations done: 8
Data misfit
1000
Target misfit = 165.00
10
1
Model Norm
1
2
3
4
5
6
7
8
Iteration #

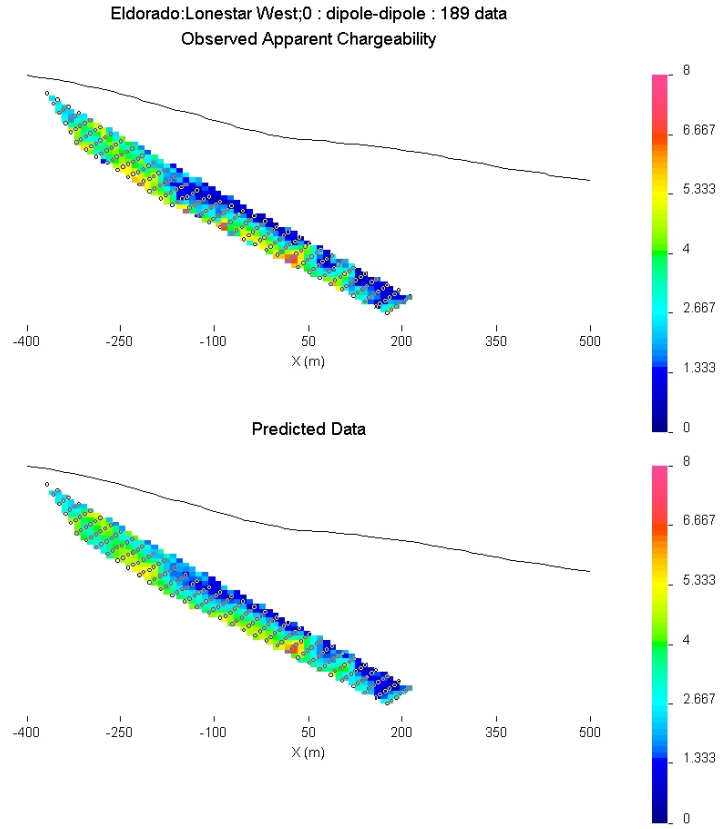

Eldorado:lonestar east;960 : dipole-dipole : 165 data
Observed Apparent Chargeability
15
12.5
10
7.5
5
2.5
0
-800
-667
-533
-400
-267
-133
0
X (m)
Predicted Data
15
12.5
10
7.5
5
2.5
0
-800
-667
-533
-400
-267
-133
0
X (m)

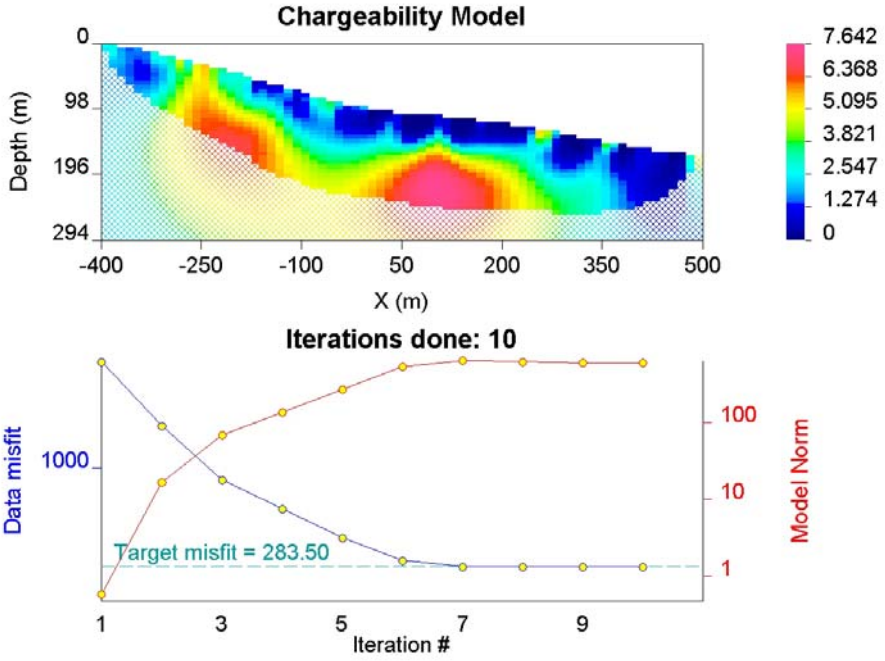

Chargeability Model
Depth (m)
0
131
263
394
-825
-683
-542
-400
-258
-117
25
X (m)
74.04
61.7
49.36
37.02
24.68
12.34
0
Iterations done: 24
Data misfit
1000
Target misfit = 980.00
100000
10000
1000
100
10
Model Norm
1
5
9
13
17
21
Iteration #

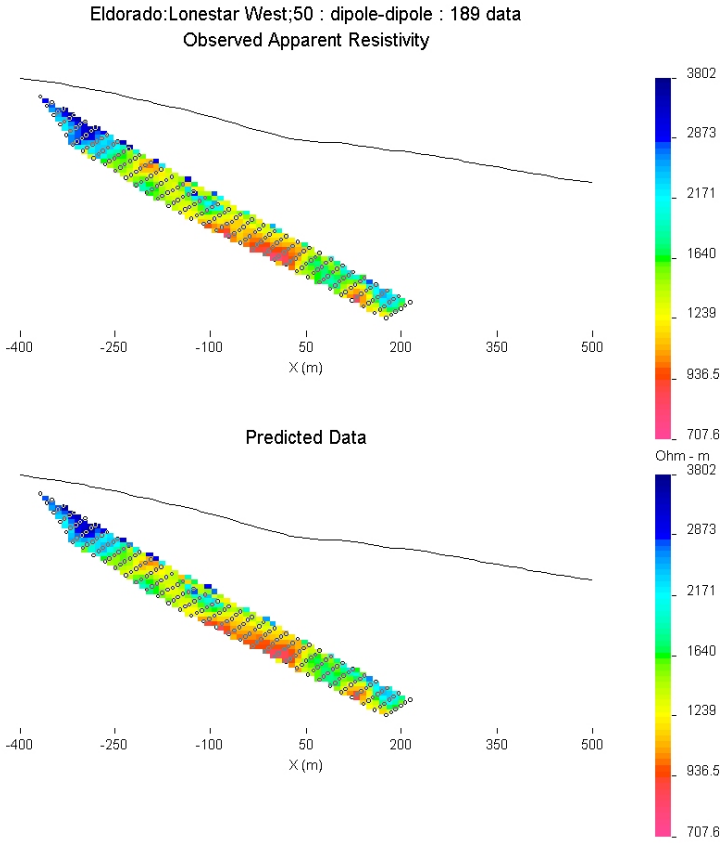
Lonestar West grid

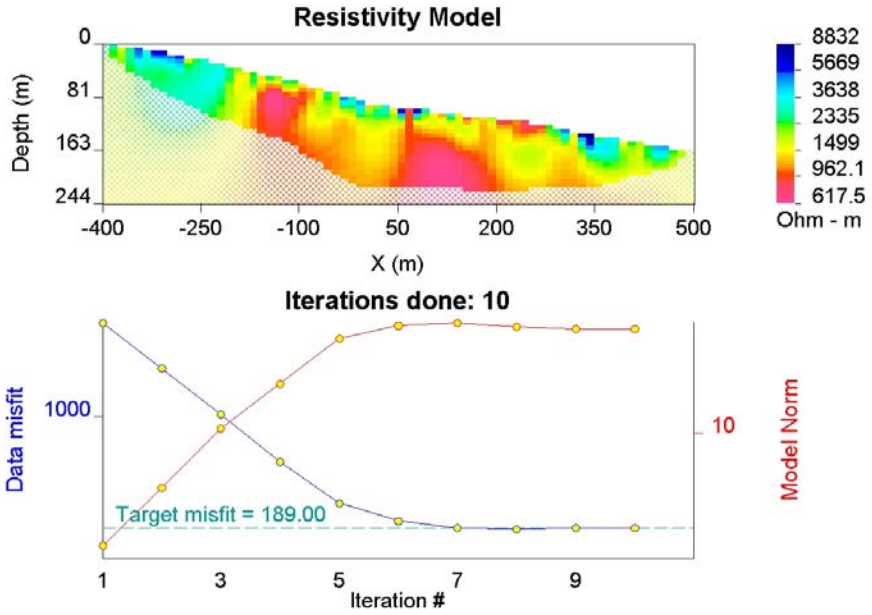


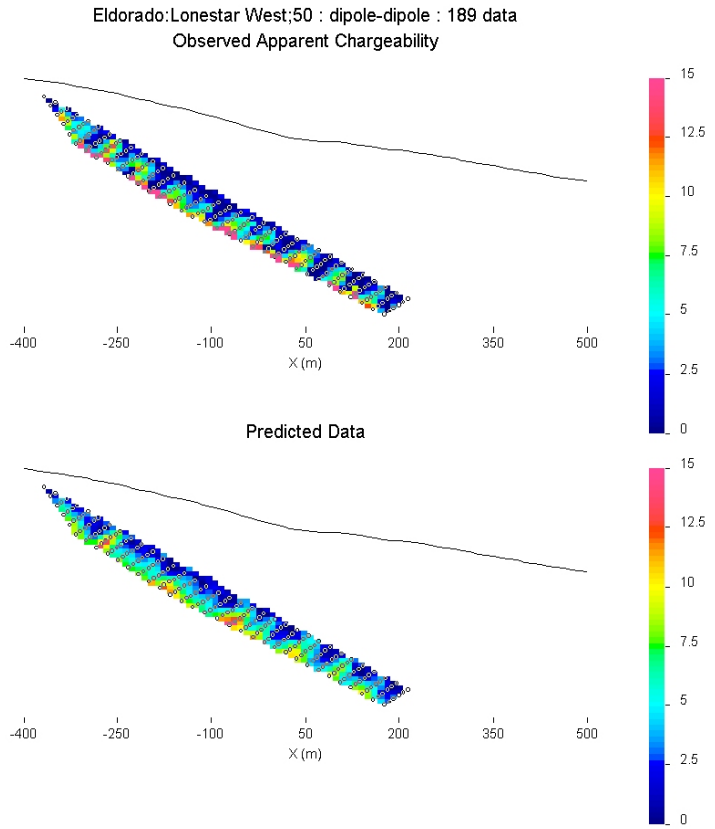


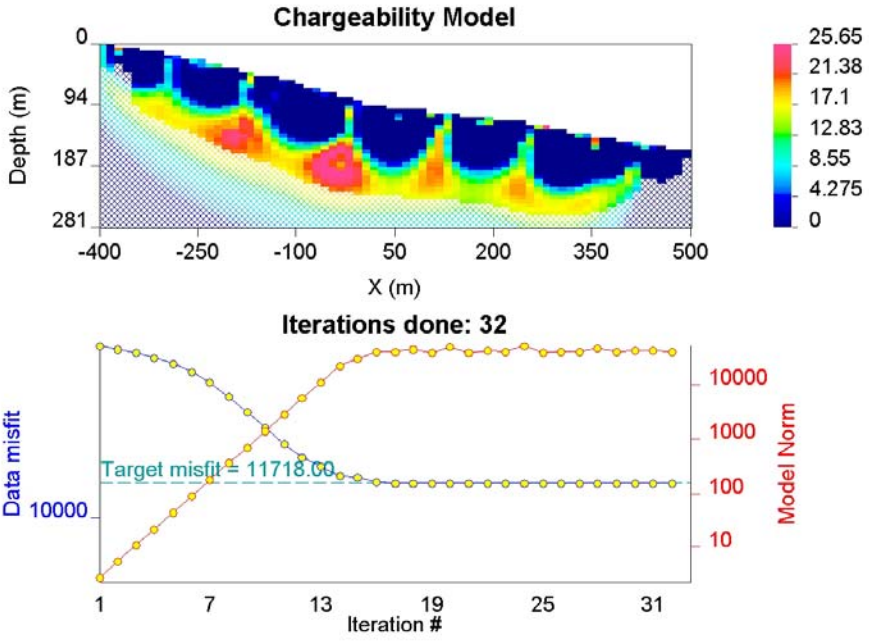

Eldorado:Lonestar West;0 : dipole-dipole : 189 data
Observed Apparent Chargeability
8
6.667
5.333
4
2.667
1.333
0
-400
-250
-100
50
200
350
500
X (m)
Predicted Data
8
6.667
5.333
4
2.667
1.333
0
-400
-250
-100
50
200
350
500
X (m)

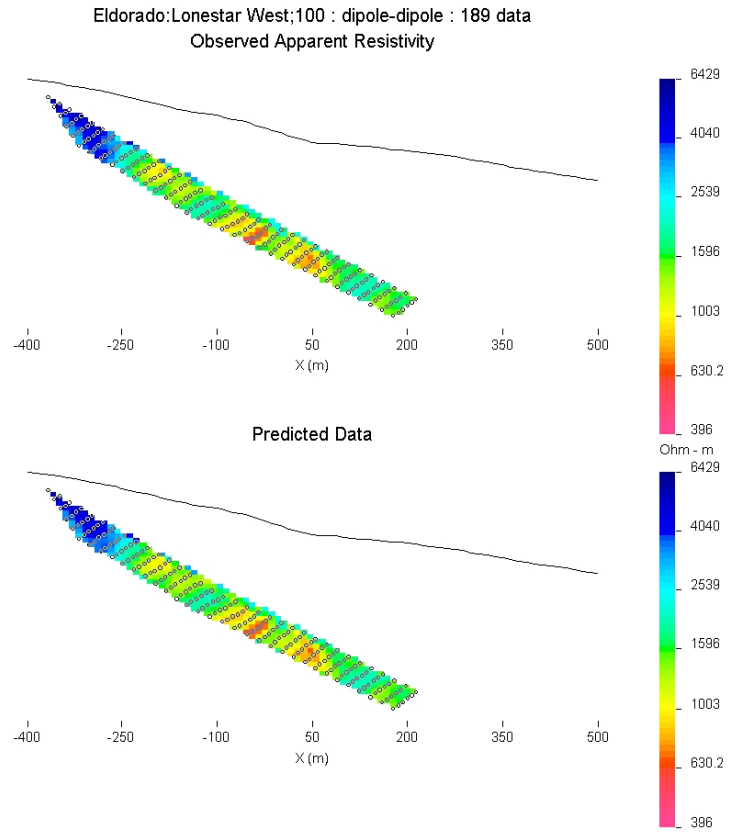

Chargeability Model
Depth (m)
0
98
196
294
-400
-250
-100
50
200
350
500
X (m)
7.642
6.368
5.095
3.821
2.547
1.274
0
Iterations done: 10
Data misfit
1000
Target misfit = 283.50
100
10
1
Model Norm
1
3
5
7
9
Iteration #

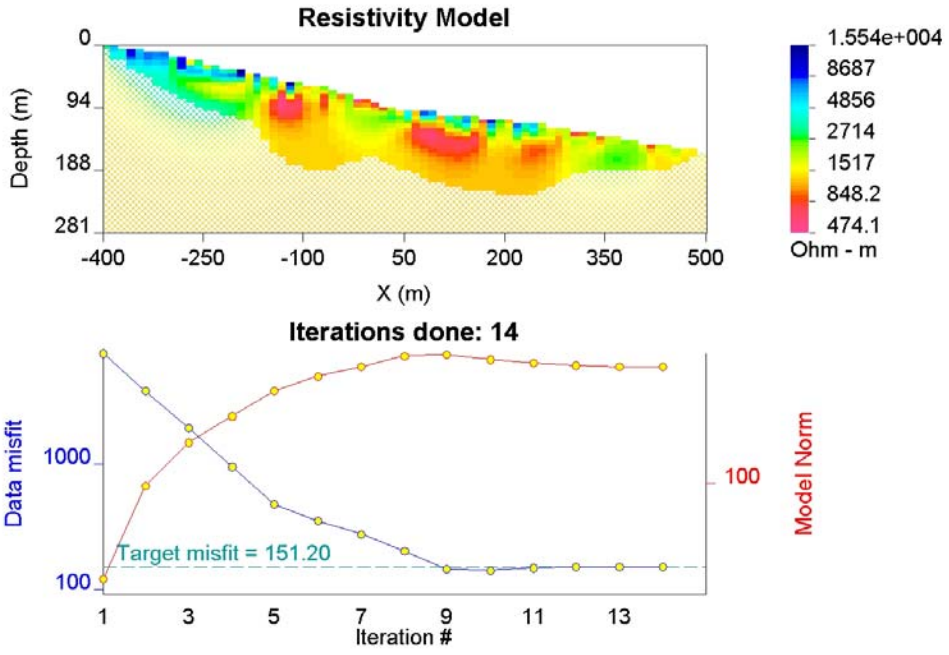

Eldorado:Lonestar West;50 : dipole-dipole : 189 data
Observed Apparent Resistivity
3802
2873
2171
1640
1239
936.5
707.6
Ohm - m
-400
-250
-100
50
200
350
500
X (m)
Predicted Data
3802
2873
2171
1640
1239
936.5
707.6
-400
-250
-100
50
200
350
500
X (m)

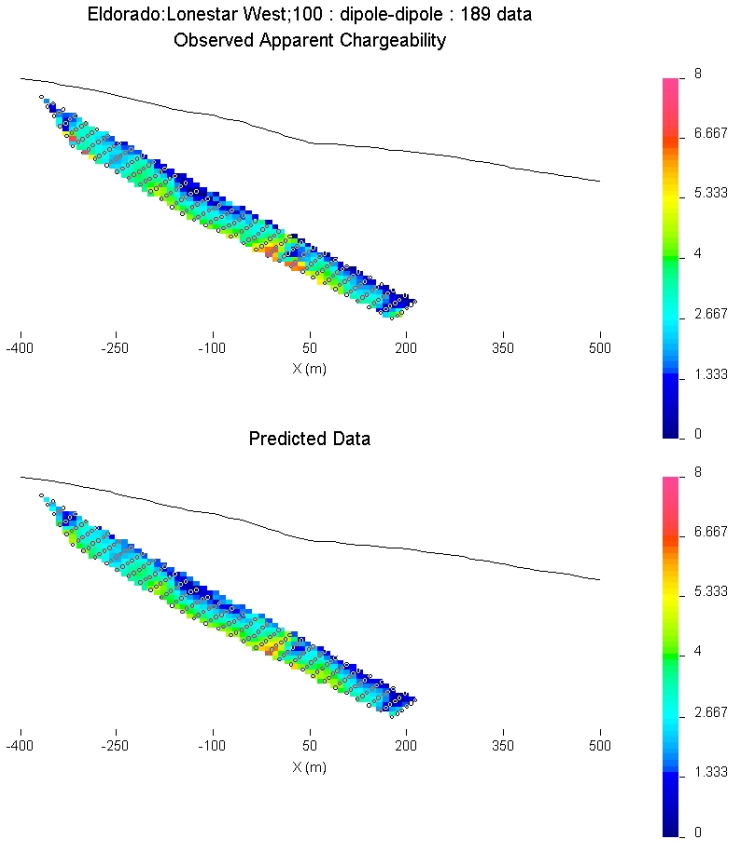

Resistivity Model
Depth (m)
0
81
163
244
-400
-250
-100
50
200
350
500
X (m)
8832
5669
3638
2335
1499
962.1
617.5
Ohm - m
Iterations done: 10
Data misfit
1000
Target misfit = 189.00
10
Model Norm
1
3
5
7
9
Iteration #

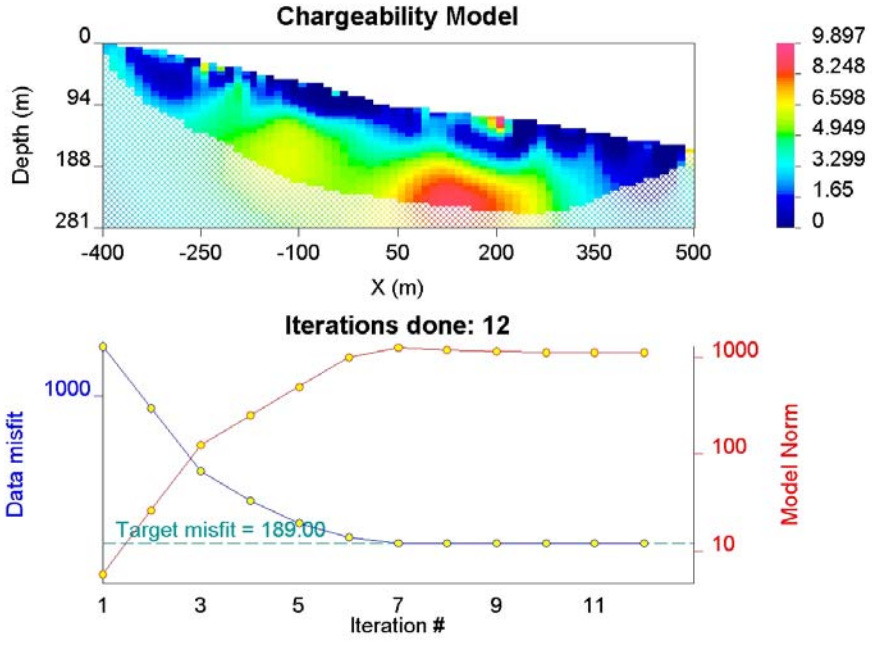

Eldorado:Lonestar West;50 : dipole-dipole : 189 data
Observed Apparent Chargeability
15
12.5
10
7.5
5
2.5
0
-400
-250
-100
50
200
350
500
X (m)
Predicted Data
15
12.5
10
7.5
5
2.5
0
-400
-250
-100
50
200
350
500
X (m)

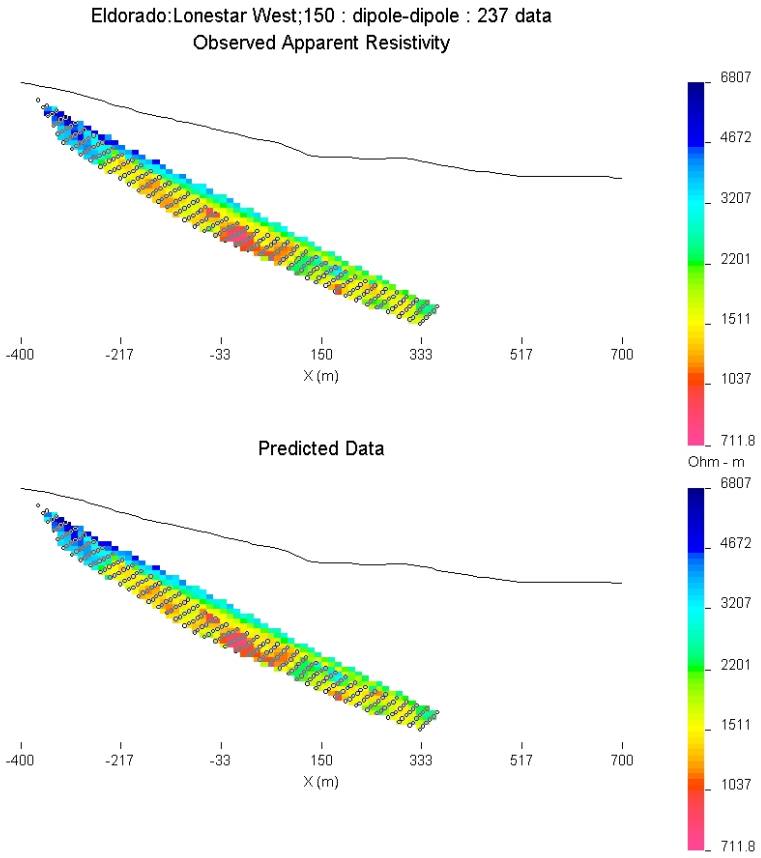

Chargeability Model
Depth (m)
0
94
187
281
-400
-250
-100
50
200
350
500
X (m)
25.65
21.38
17.1
12.83
8.55
4.275
0
Iterations done: 32
Data misfit
10000
Target misfit = 11718.00
1
7
13
19
25
31
Iteration #
10000
1000
100
10
Model Norm

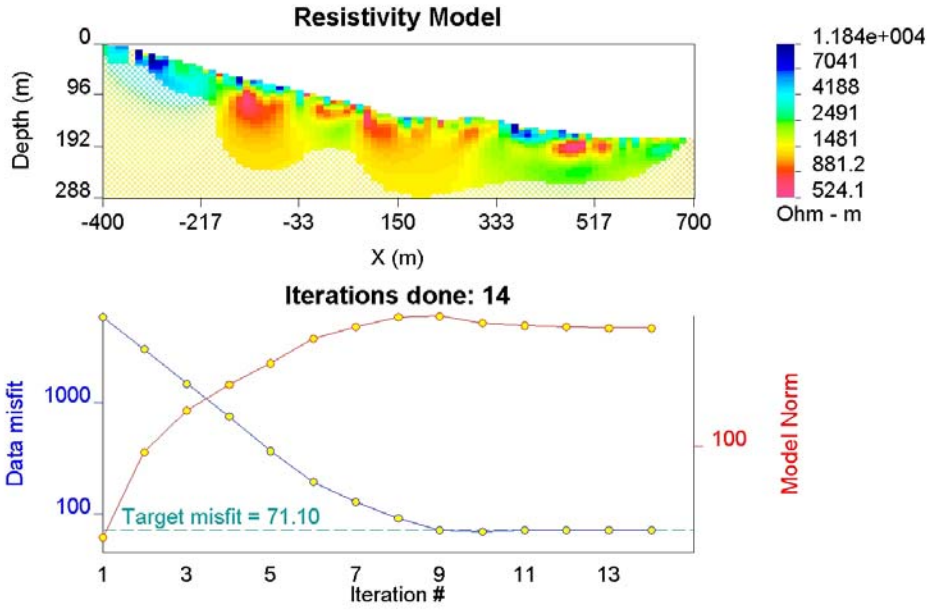

Eldorado:Lonestar West;100 : dipole-dipole : 189 data
Observed Apparent Resistivity
6429
4040
2539
1596
1003
630.2
396
Ohm - m
-400
-250
-100
50
200
350
500
X (m)
Predicted Data
6429
4040
2539
1596
1003
630.2
396
-400
-250
-100
50
200
350
500
X (m)

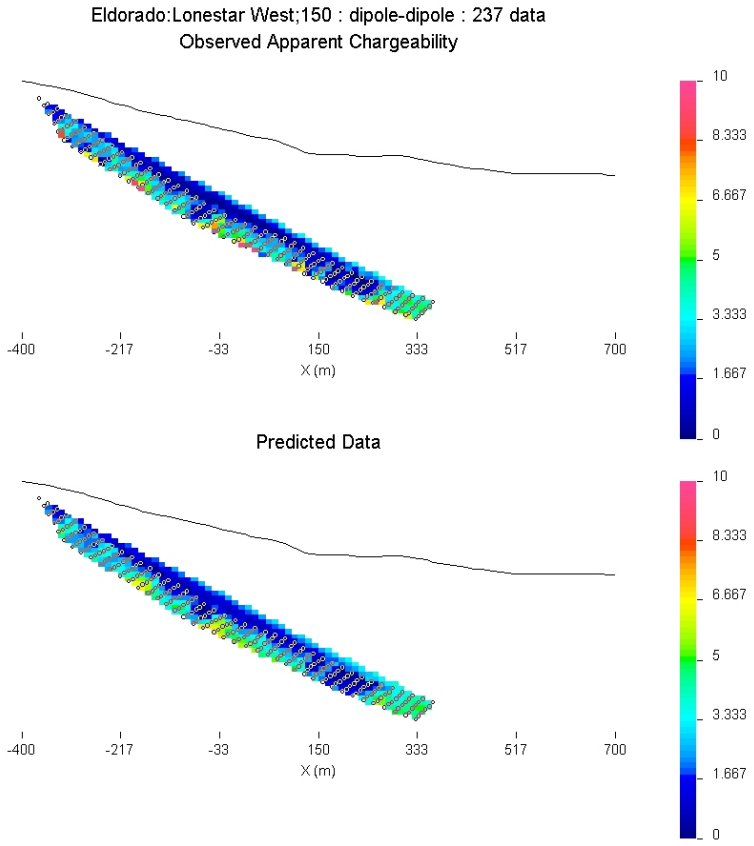

Resistivity Model
Depth (m)
0
94
188
281
-400
-250
-100
50
200
350
500
X (m)
1.554e+004
8687
4856
2714
1517
848.2
474.1
Ohm - m
Iterations done: 14
Data misfit
1000
100
Target misfit = 151.20
1
3
5
7
9
11
13
Iteration #
100
Model Norm

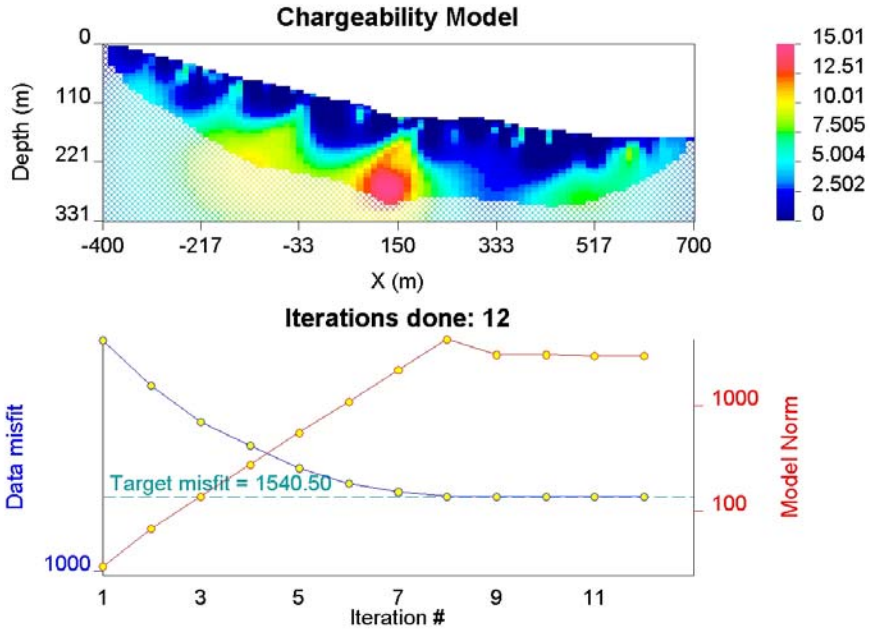

Eldorado:Lonestar West;100 : dipole-dipole : 189 data
Observed Apparent Chargeability
8
6.667
5.333
4
2.667
1.333
0
-400
-250
-100
50
200
350
500
X (m)
Predicted Data
8
6.667
5.333
4
2.667
1.333
0
-400
-250
-100
50
200
350
500
X (m)

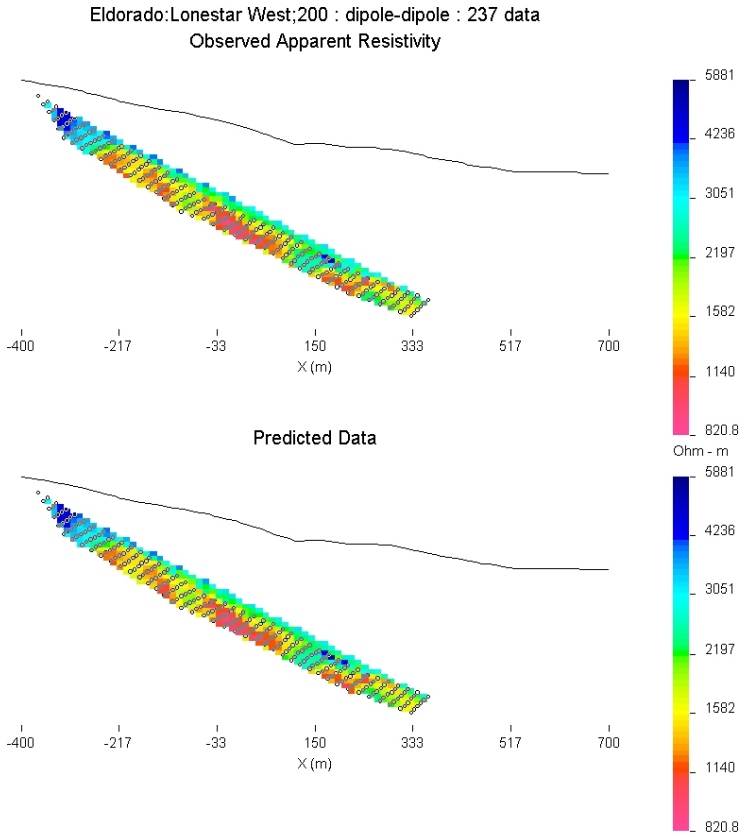

Chargeability Model
Depth (m)
0
94
188
281
-400
-250
-100
50
200
350
500
X (m)
9.897
8.248
6.598
4.949
3.299
1.65
0
Iterations done: 12
Data misfit
1000
Target misfit = 189.00
Model Norm
1000
100
10
1
3
5
7
9
11
Iteration #

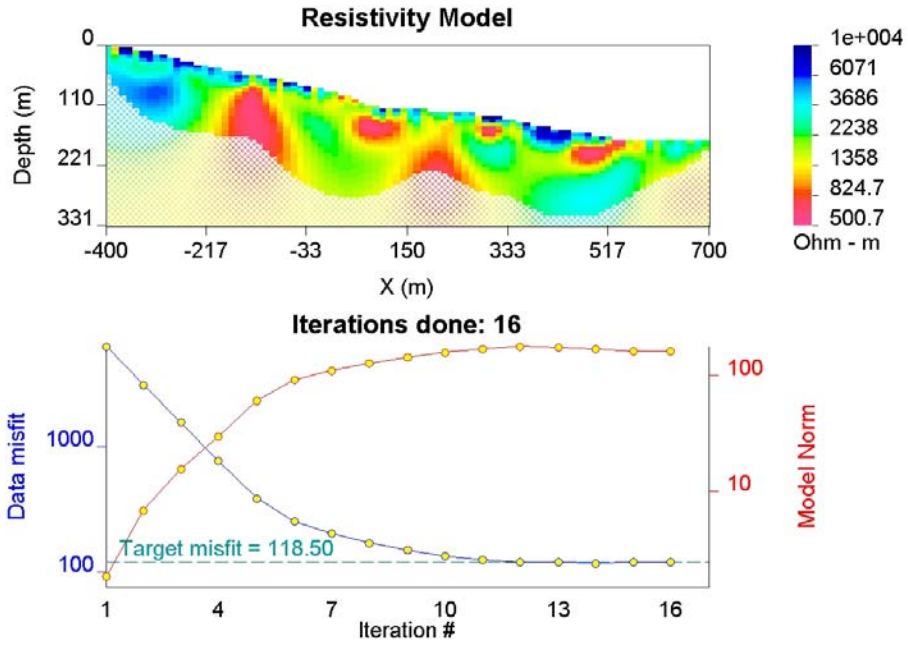

Eldorado:Lonestar West;150 : dipole-dipole : 237 data
Observed Apparent Resistivity
6807
4672
3207
2201
1511
1037
711.8
Ohm - m
-400
-217
-33
150
333
517
700
X (m)
Predicted Data
6807
4672
3207
2201
1511
1037
711.8
-400
-217
-33
150
333
517
700
X (m)

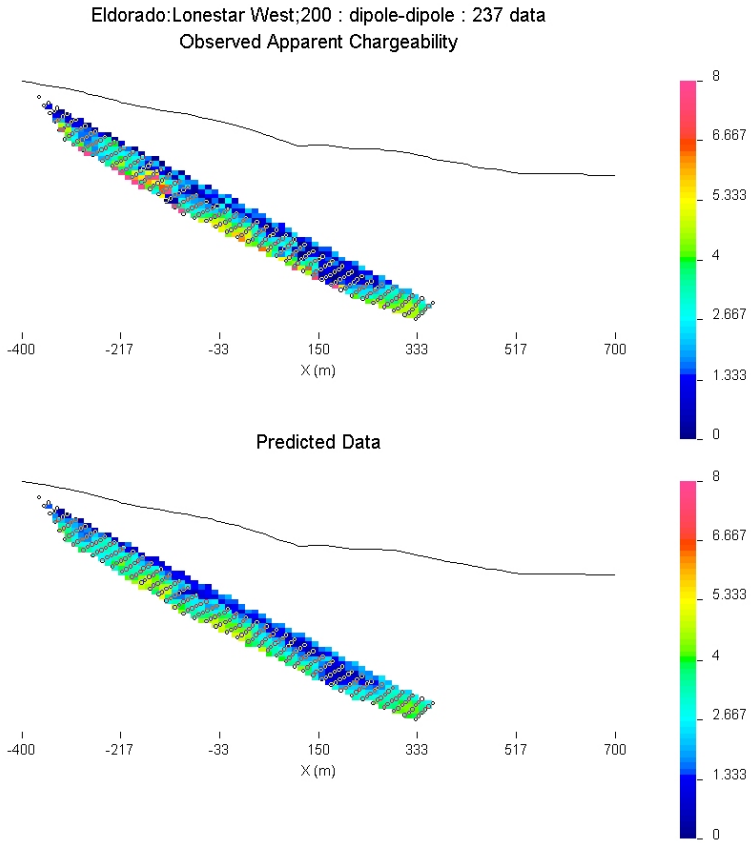

Resistivity Model
Depth (m)
0
96
192
288
-400
-217
-33
150
333
517
700
X (m)
1.184e+004
7041
4188
2491
1481
881.2
524.1
Ohm - m
Iterations done: 14
Data misfit
1000
100
Target misfit = 71.10
1
3
5
7
9
11
13
Iteration #
100
Model Norm

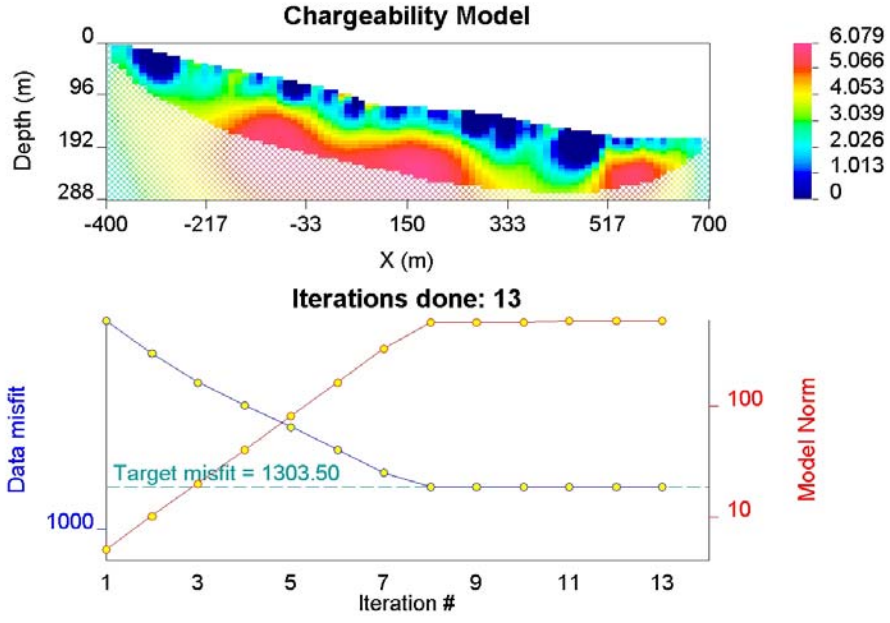

Eldorado:Lonestar West;150 : dipole-dipole : 237 data
Observed Apparent Chargeability
10
8.333
6.667
5
3.333
1.667
0
-400
-217
-33
150
333
517
700
X (m)
Predicted Data
10
8.333
6.667
5
3.333
1.667
0
-400
-217
-33
150
333
517
700
X (m)

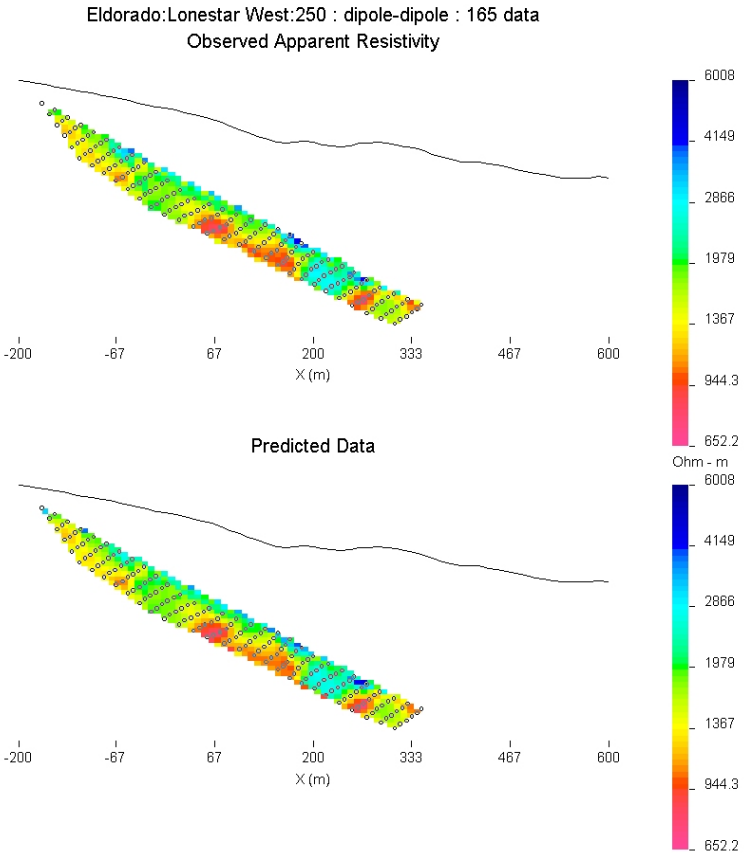

Chargeability Model
Depth (m)
0
110
221
331
-400
-217
-33
150
333
517
700
X (m)
15.01
12.51
10.01
7.505
5.004
2.502
0
Iterations done: 12
Data misfit
Target misfit = 1540.50
1000
1
3
5
7
9
11
Iteration #
1000
100
Model Norm

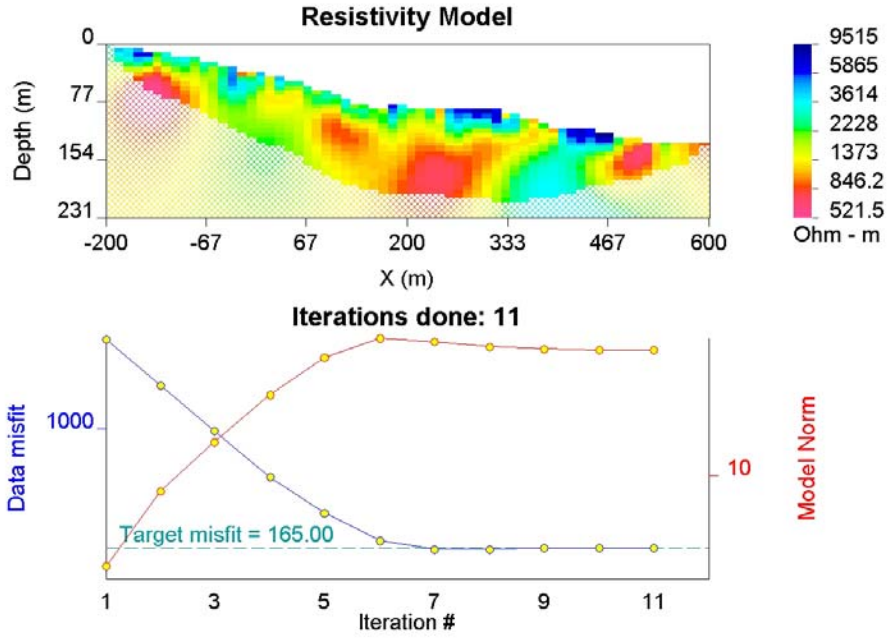

Eldorado:Lonestar West;200 : dipole-dipole : 237 data
Observed Apparent Resistivity
5881
4236
3051
2197
1582
1140
820.8
Ohm - m
-400
-217
-33
150
333
517
700
X (m)
Predicted Data
5881
4236
3051
2197
1582
1140
820.8
-400
-217
-33
150
333
517
700
X (m)

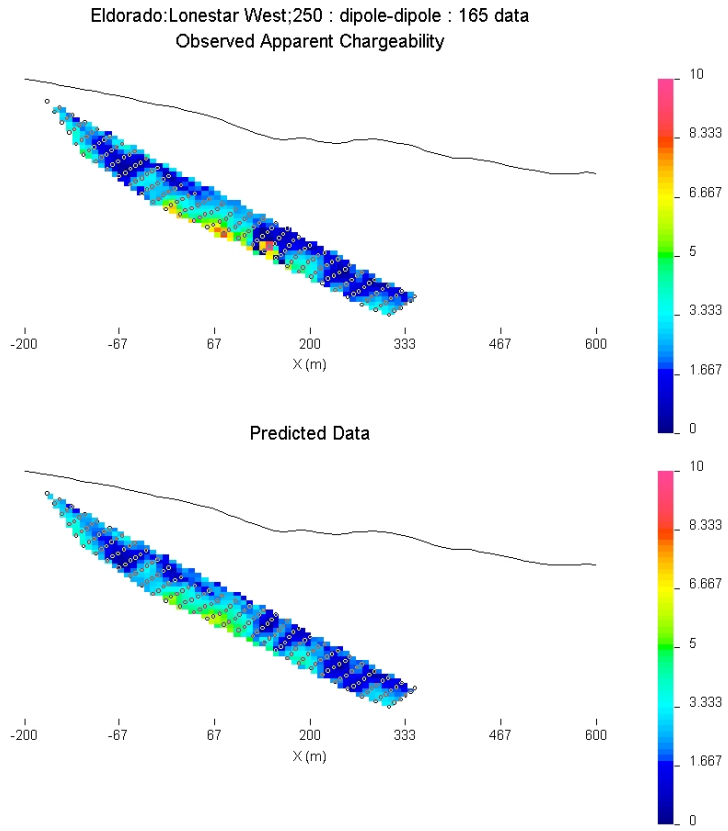

Resistivity Model
Depth (m)
0
110
221
331
-400
-217
-33
150
333
517
700
X (m)
1e+004
6071
3686
2238
1358
824.7
500.7
Ohm - m
Iterations done: 16
Data misfit
1000
100
Target misfit = 118.50
1
4
7
10
13
16
Iteration #
100
10
Model Norm

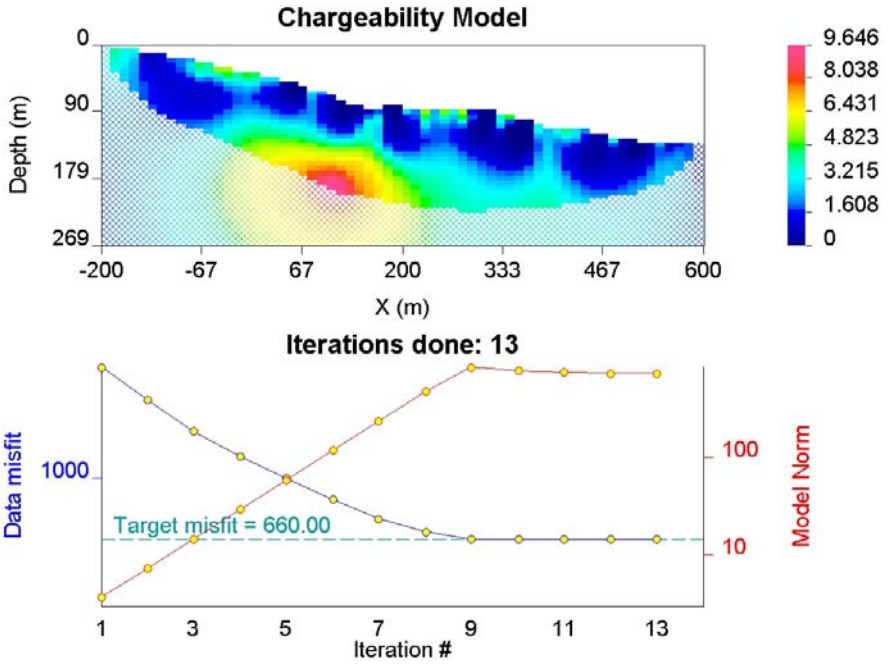

Eldorado:Lonestar West;200 : dipole-dipole : 237 data
Observed Apparent Chargeability
8
6.667
5.333
4
2.667
1.333
0
-400
-217
-33
150
333
517
700
X (m)
Predicted Data
8
6.667
5.333
4
2.667
1.333
0
-400
-217
-33
150
333
517
700
X (m)

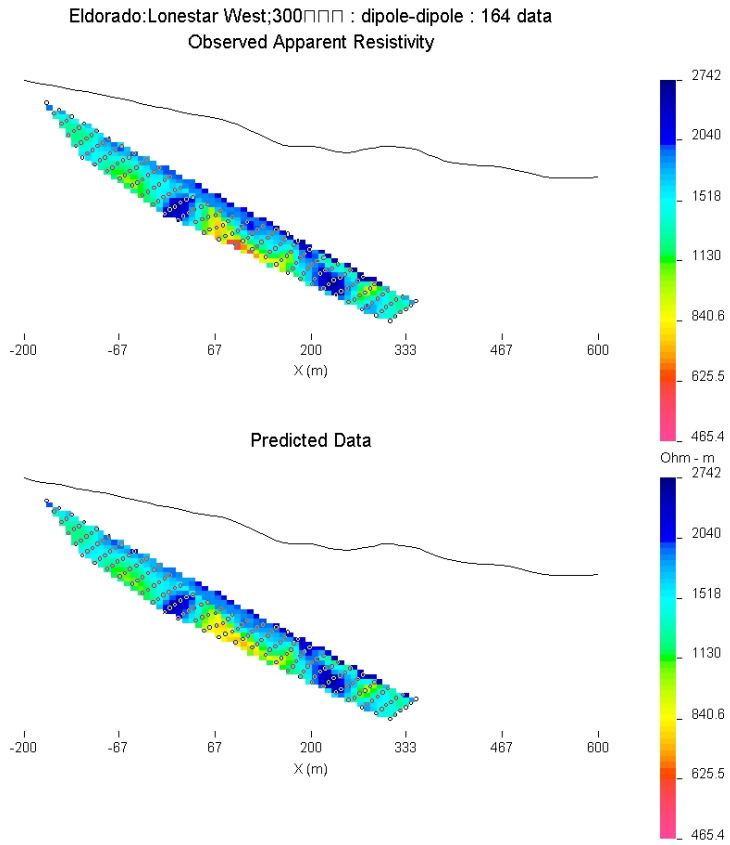

Chargeability Model
Depth (m)
0
96
192
288
-400
-217
-33
150
333
517
700
X (m)
6.079
5.066
4.053
3.039
2.026
1.013
0
Iterations done: 13
Data misfit
1000
Target misfit = 1303.50
100
10
Model Norm
1
3
5
7
9
11
13
Iteration #

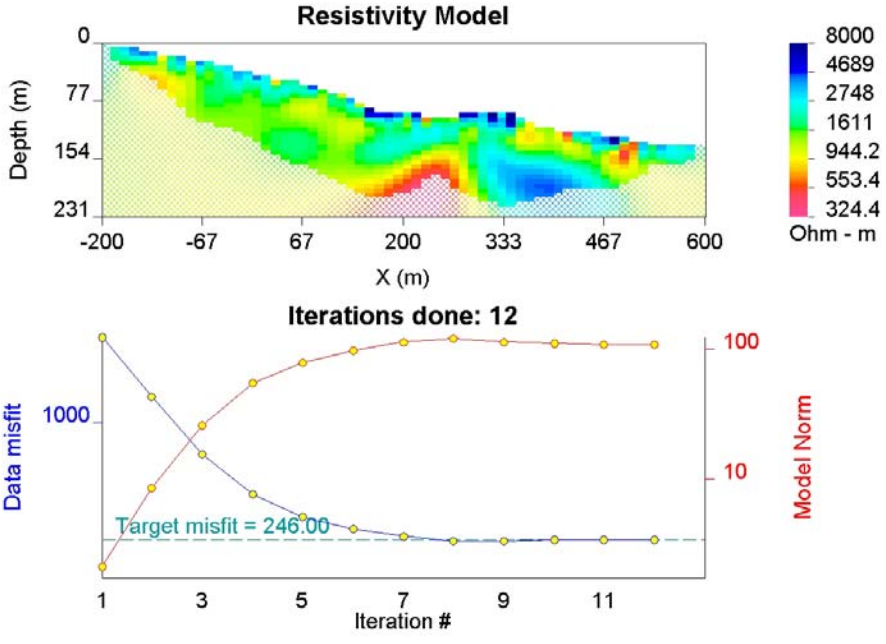

Eldorado:Lonestar West:250 : dipole-dipole : 165 data
Observed Apparent Resistivity
6008
4149
2866
1979
1367
944.3
652.2
Ohm - m
-200
-67
67
200
333
467
600
X (m)
Predicted Data
6008
4149
2866
1979
1367
944.3
652.2
-200
-67
67
200
333
467
600
X (m)

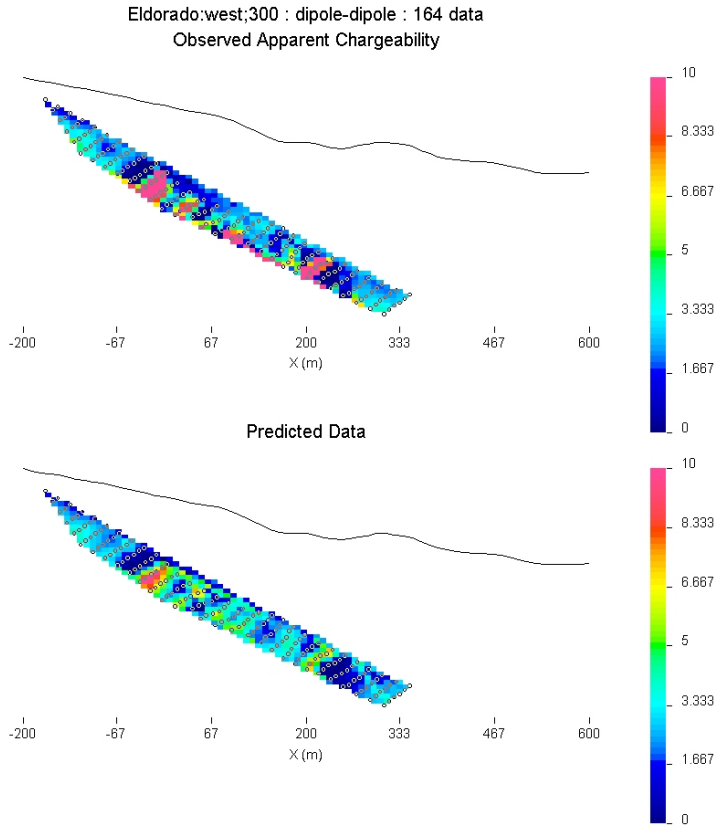

Resistivity Model
Depth (m)
0
77
154
231
-200
-67
67
200
333
467
600
X (m)
9515
5865
3614
2228
1373
846.2
521.5
Ohm - m
Iterations done: 11
Data misfit
1000
Target misfit = 165.00
10
Model Norm
1
3
5
7
9
11
Iteration #

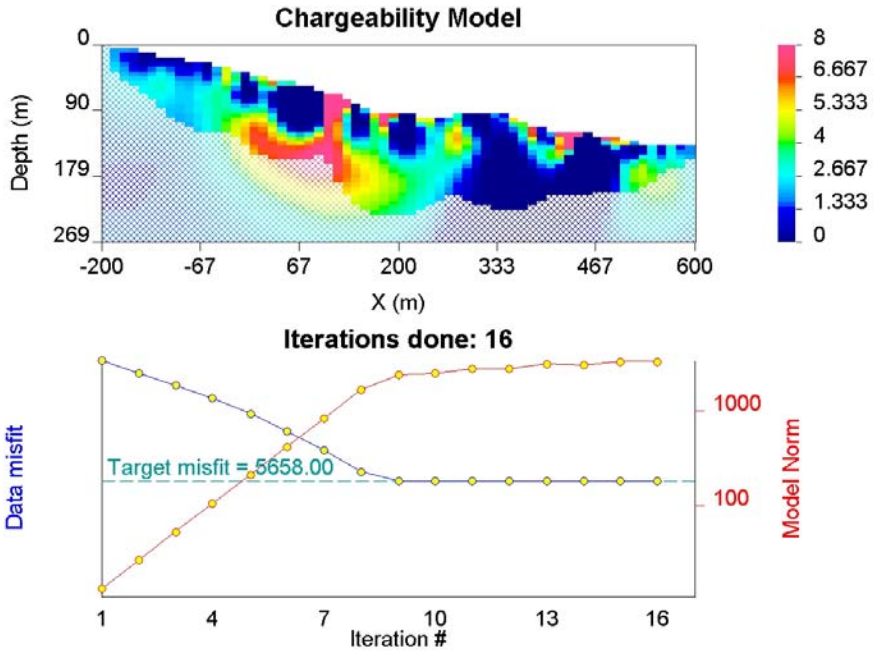

Eldorado:Lonestar West;250 : dipole-dipole : 165 data
Observed Apparent Chargeability
10
8.333
6.667
5
3.333
1.667
0
-200
-67
67
200
333
467
600
X (m)
Predicted Data
10
8.333
6.667
5
3.333
1.667
0
-200
-67
67
200
333
467
600
X (m)

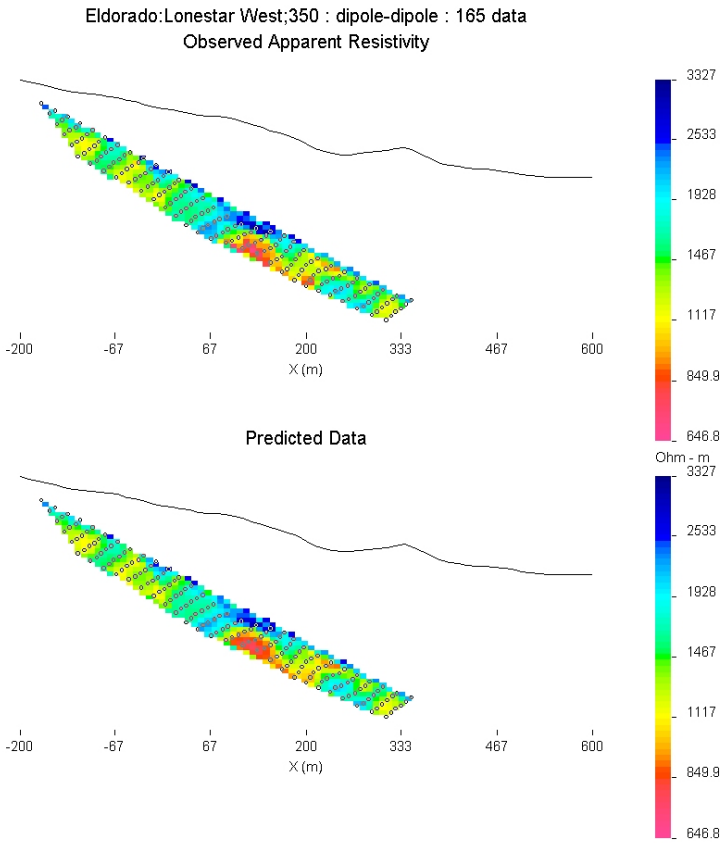

Chargeability Model
Depth (m)
0
90
179
269
-200
-67
67
200
333
467
600
X (m)
9.646
8.038
6.431
4.823
3.215
1.608
0
Iterations done: 13
Data misfit
1000
Target misfit = 660.00
100
10
Model Norm
1
3
5
7
9
11
13
Iteration #

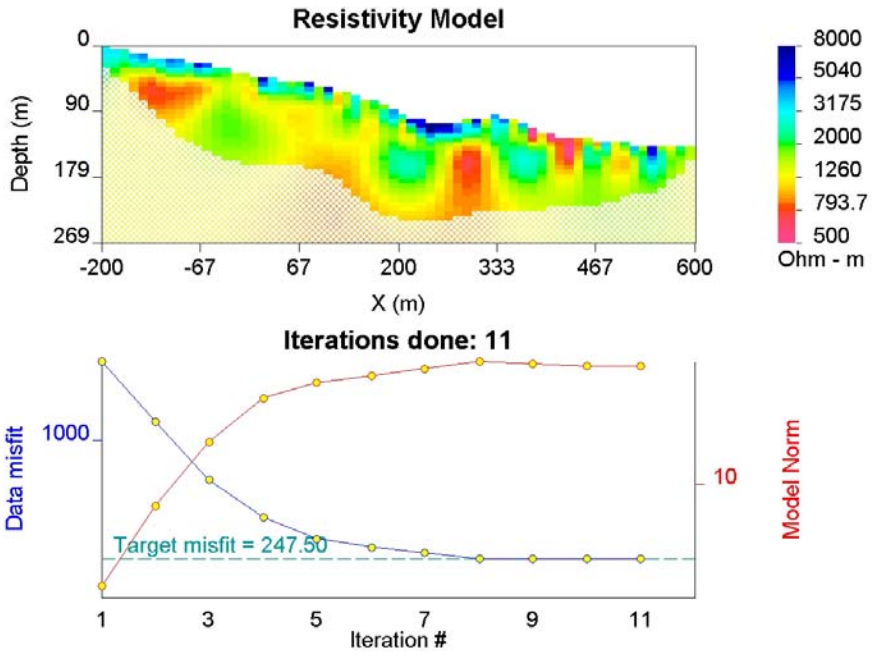

Eldorado:Lonestar West;300⊓⊓⊓ : dipole-dipole : 164 data
Observed Apparent Resistivity
2742
2040
1518
1130
840.6
625.5
465.4
-200
-67
67
200
333
467
600
X (m)
Predicted Data
Ohm - m

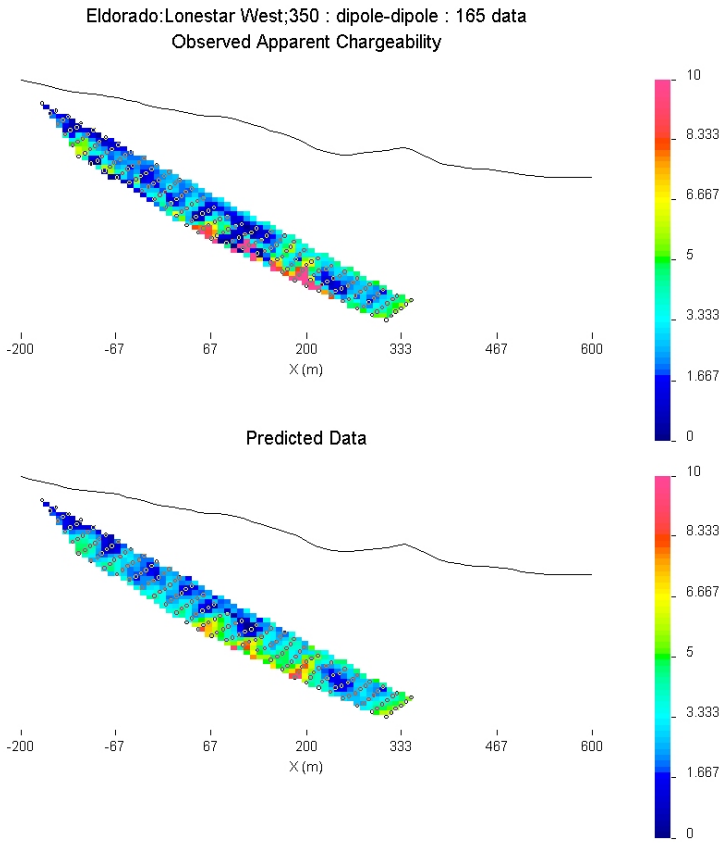

Resistivity Model
Depth (m)
0
77
154
231
-200
-67
67
200
333
467
600
X (m)
8000
4689
2748
1611
944.2
553.4
324.4
Ohm - m
Iterations done: 12
Data misfit
1000
Target misfit = 246.00
100
10
Model Norm
1
3
5
7
9
11
Iteration #

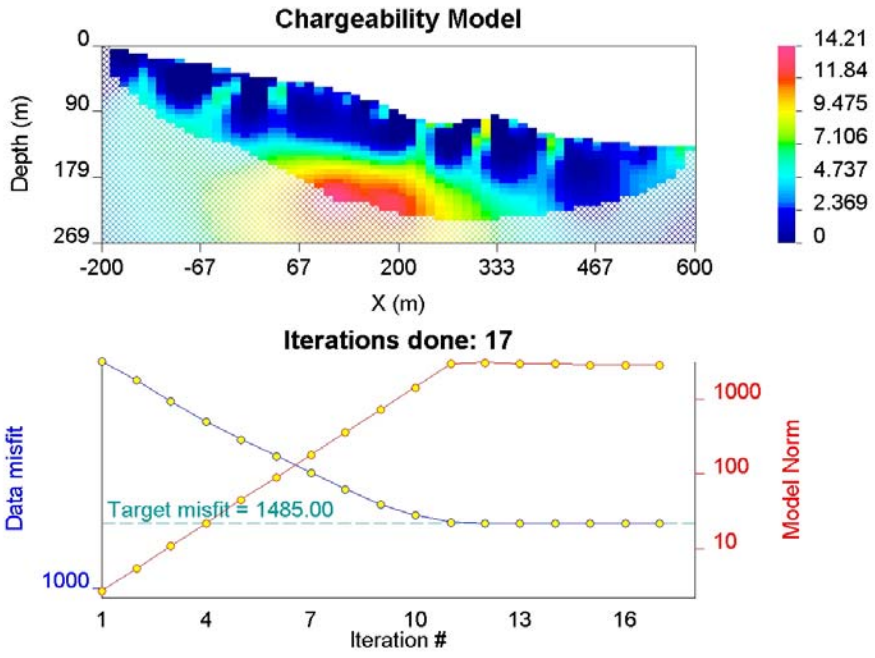

Eldorado:west;300 : dipole-dipole : 164 data
Observed Apparent Chargeability
10
8.333
6.667
5
3.333
1.667
0
-200
-67
67
200
333
467
600
X (m)
Predicted Data
10
8.333
6.667
5
3.333
1.667
0
-200
-67
67
200
333
467
600
X (m)

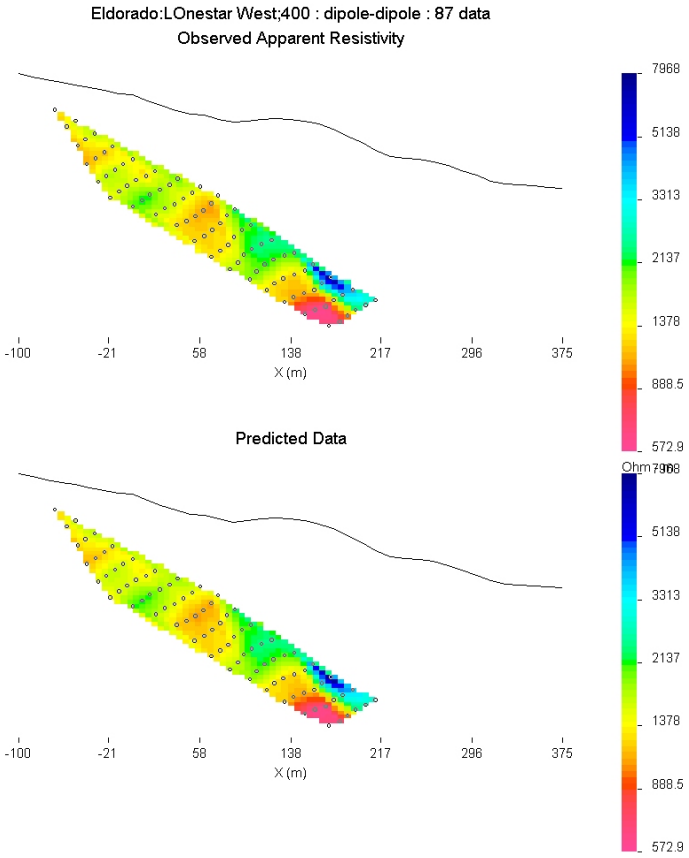

Chargeability Model
Depth (m)
0
90
179
269
-200
-67
67
200
333
467
600
X (m)
8
6.667
5.333
4
2.667
1.333
0
Iterations done: 16
Data misfit
Target misfit = 5658.00
1000
100
Model Norm
1
4
7
10
13
16
Iteration #

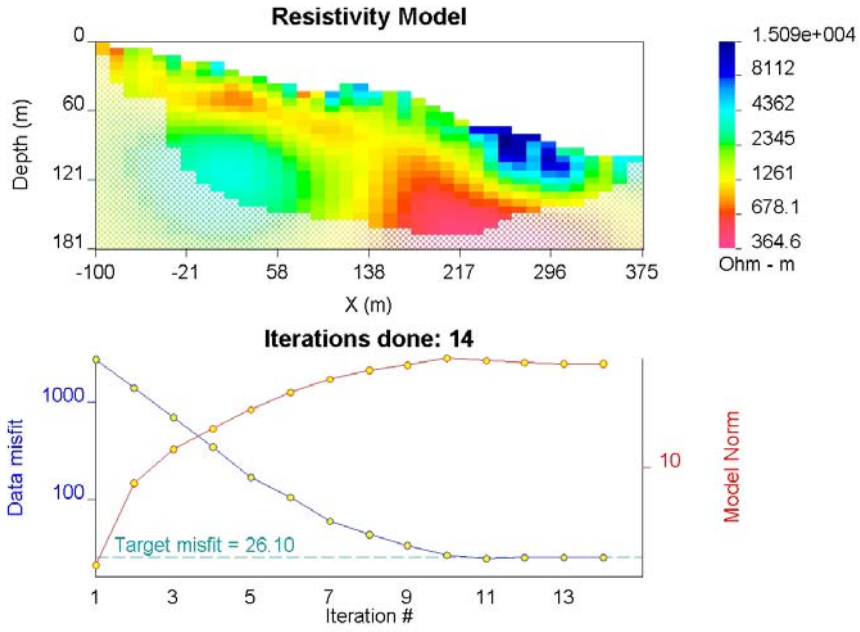

Eldorado:Lonestar West;350 : dipole-dipole : 165 data
Observed Apparent Resistivity
3327
2533
1928
1467
1117
849.9
646.8
Ohm - m
-200
-67
67
200
333
467
600
X (m)
Predicted Data
3327
2533
1928
1467
1117
849.9
646.8
-200
-67
67
200
333
467
600
X (m)

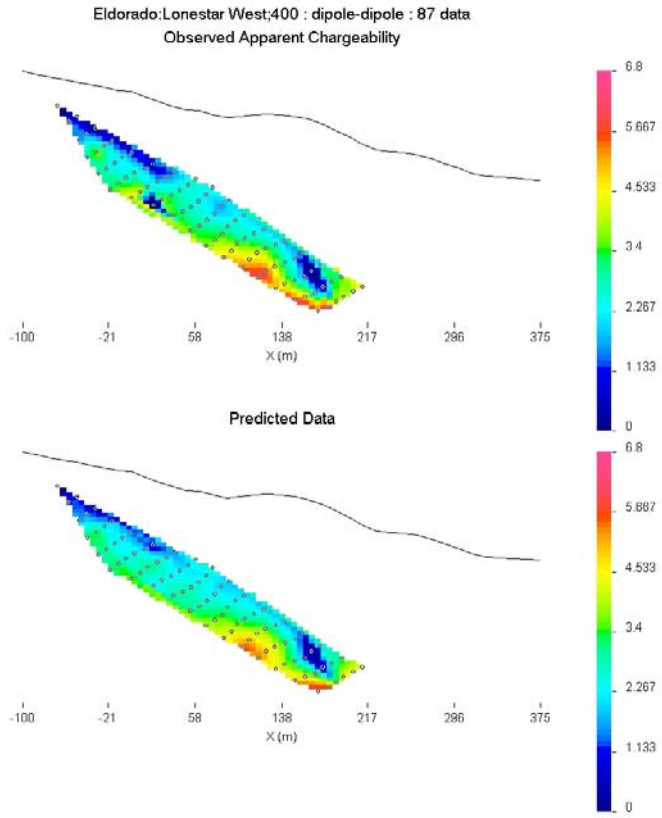

Resistivity Model
Depth (m)
0
90
179
269
-200
-67
67
200
333
467
600
X (m)
8000
5040
3175
2000
1260
793.7
500
Ohm - m
Iterations done: 11
Data misfit
1000
Target misfit = 247.50
10
Model Norm
1
3
5
7
9
11
Iteration #

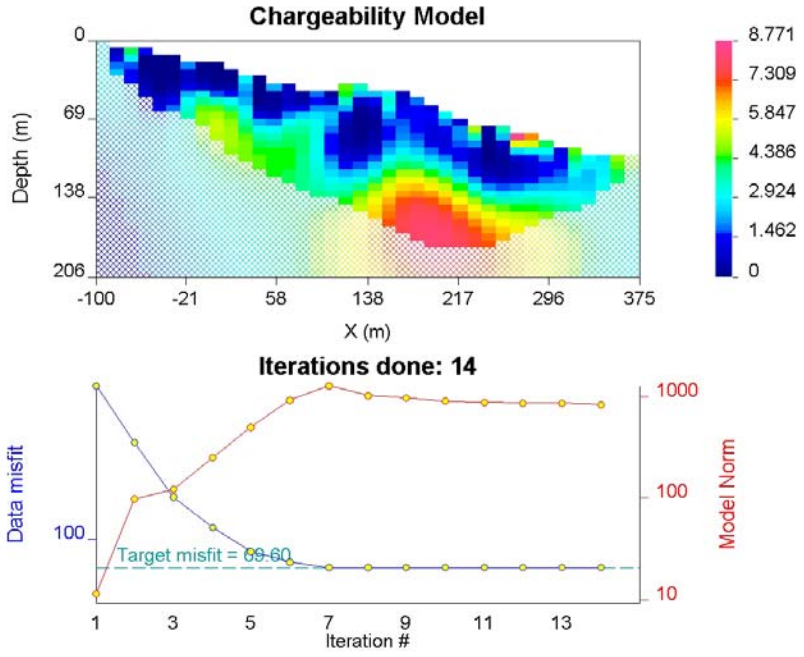

Eldorado:Lonestar West;350 : dipole-dipole : 165 data
Observed Apparent Chargeability
10
8.333
6.667
5
3.333
1.667
0
-200
-67
67
200
333
467
600
X (m)
Predicted Data
10
8.333
6.667
5
3.333
1.667
0
-200
-67
67
200
333
467
600
X (m)

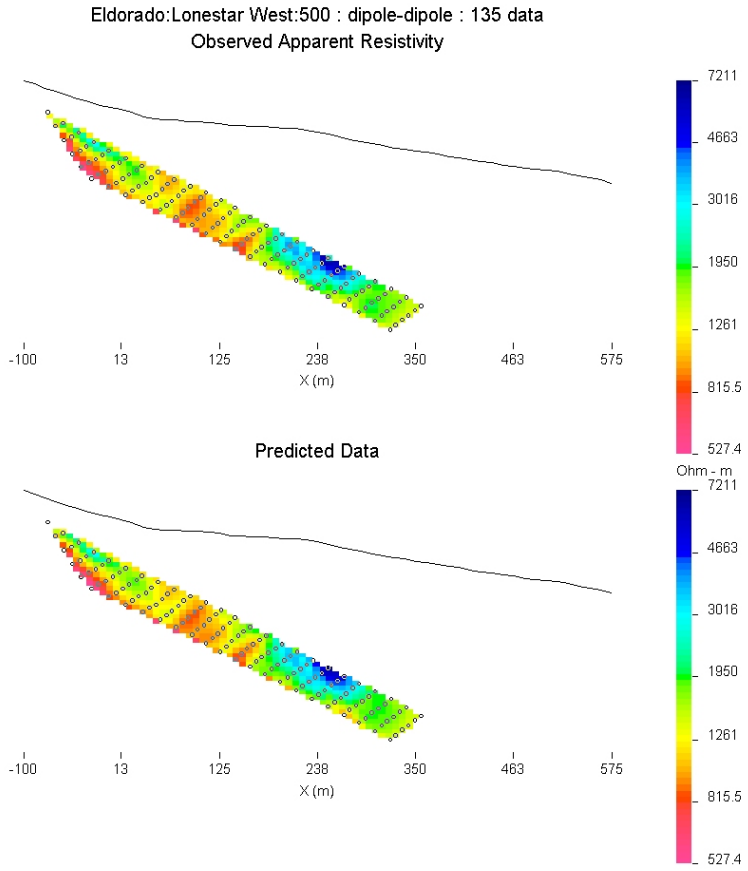

Chargeability Model
Depth (m)
0
90
179
269
-200
-67
67
200
333
467
600
X (m)
14.21
11.84
9.475
7.106
4.737
2.369
0
Iterations done: 17
Data misfit
1000
Target misfit = 1485.00
1
4
7
10
13
16
Iteration #
1000
100
10
Model Norm

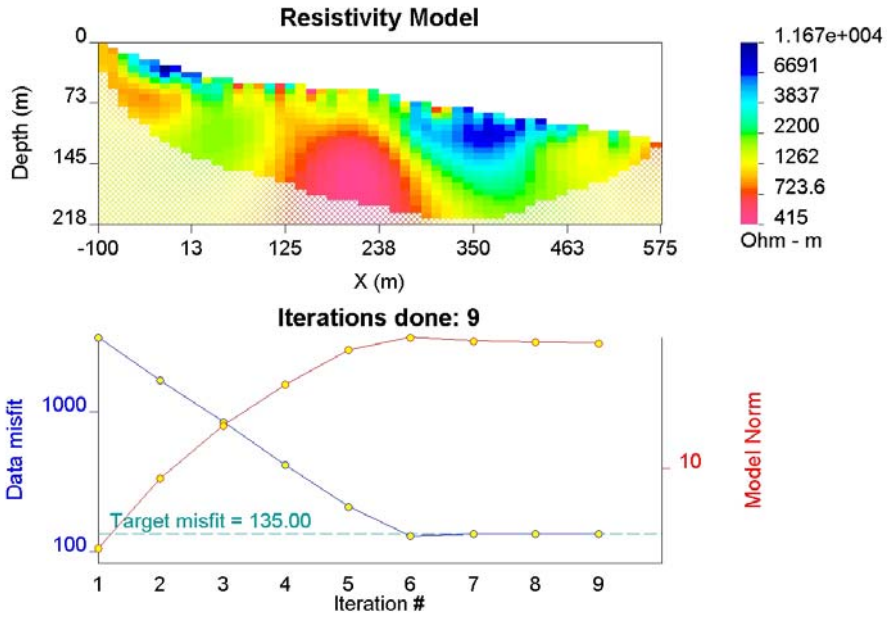

Eldorado:LOnestar West;400 : dipole-dipole : 87 data
Observed Apparent Resistivity
7968
5138
3313
2137
1378
888.5
572.9
-100
-21
58
138
217
296
375
X (m)
Predicted Data
Ohm - m
7968
5138
3313
2137
1378
888.5
572.9
-100
-21
58
138
217
296
375
X (m)

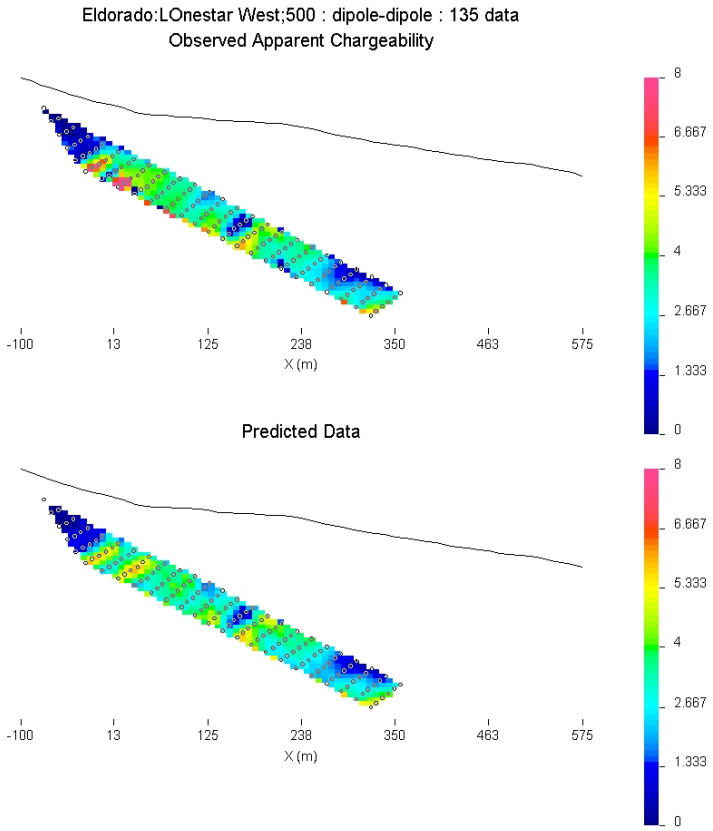

Resistivity Model
Depth (m)
0
60
121
181
-100
-21
58
138
217
296
375
X (m)
1.509e+004
8112
4362
2345
1261
678.1
364.6
Ohm - m
Iterations done: 14
Data misfit
1000
100
Target misfit = 26.10
10
Model Norm
1
3
5
7
9
11
13
Iteration #

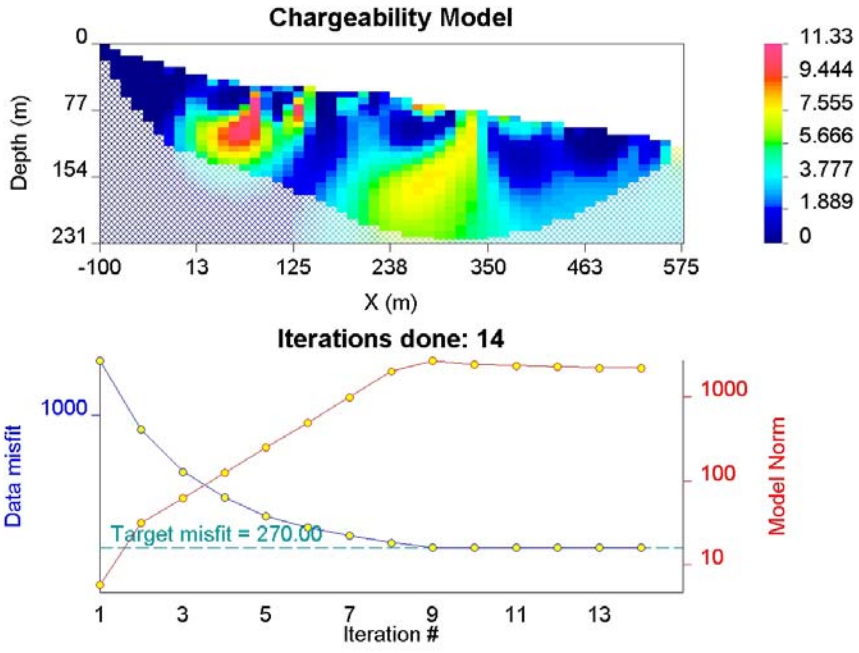

Eldorado:Lonestar West;400 : dipole-dipole : 87 data
Observed Apparent Chargeability
6.8
5.667
4.533
3.4
2.267
1.133
0
-100
-21
58
138
217
296
375
X (m)
Predicted Data
6.8
5.667
4.533
3.4
2.267
1.133
0
-100
-21
58
138
217
296
375
X (m)

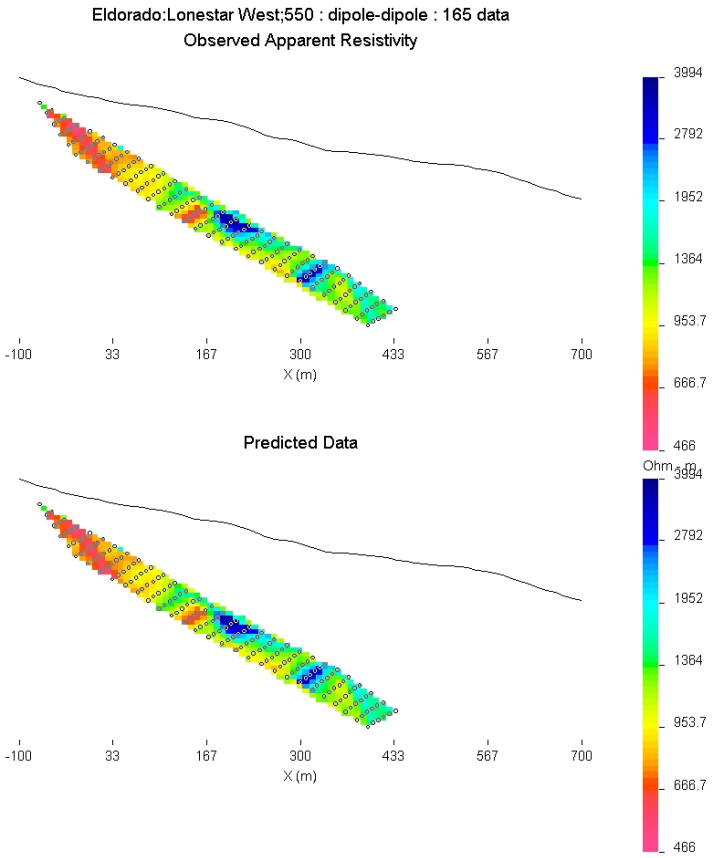

Chargeability Model
Depth (m)
0
69
138
206
-100
-21
58
138
217
296
375
X (m)
8.771
7.309
5.847
4.386
2.924
1.462
0
Iterations done: 14
Data misfit
100
Target misfit = 69.60
1
3
5
7
9
11
13
Iteration #
1000
100
10
Model Norm

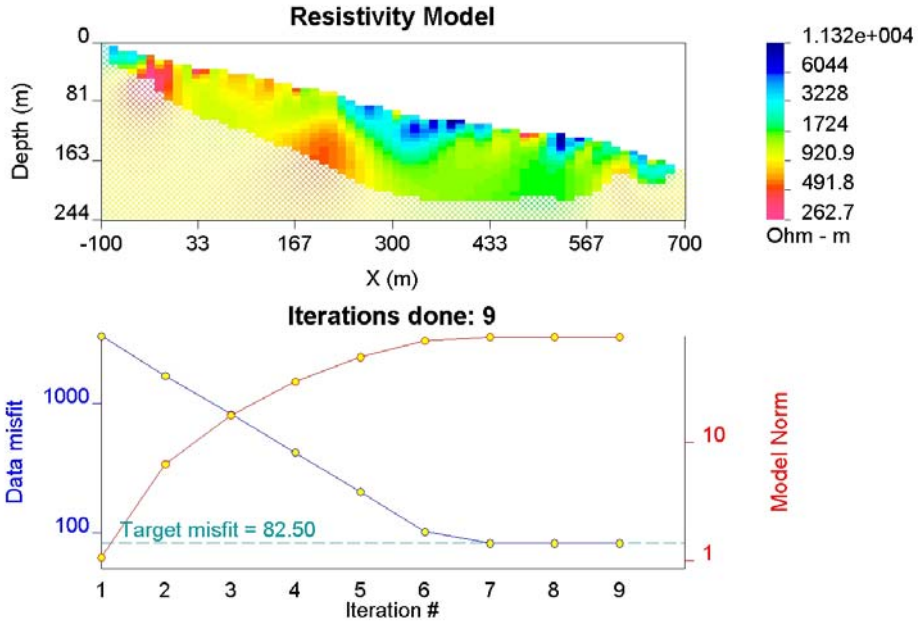

Eldorado:Lonestar West:500 : dipole-dipole : 135 data
Observed Apparent Resistivity
7211
4663
3016
1950
1261
815.5
527.4
Ohm - m
-100
13
125
238
350
463
575
X (m)
Predicted Data
7211
4663
3016
1950
1261
815.5
527.4
-100
13
125
238
350
463
575
X (m)

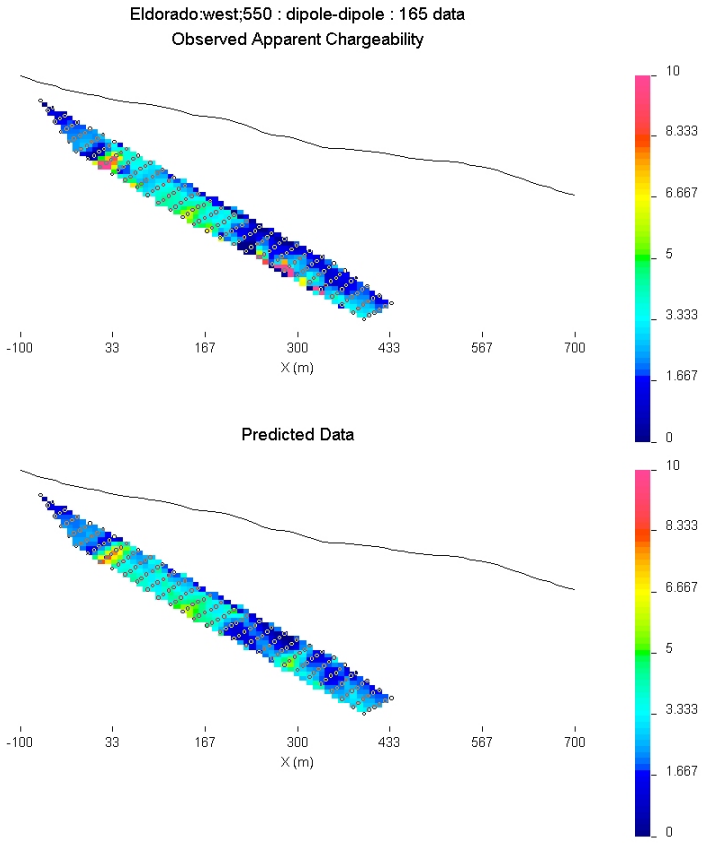

Resistivity Model
Depth (m)
0
73
145
218
-100
13
125
238
350
463
575
X (m)
1.167e+004
6691
3837
2200
1262
723.6
415
Ohm - m
Iterations done: 9
Data misfit
1000
100
Target misfit = 135.00
1
2
3
4
5
6
7
8
9
Iteration #
10
Model Norm

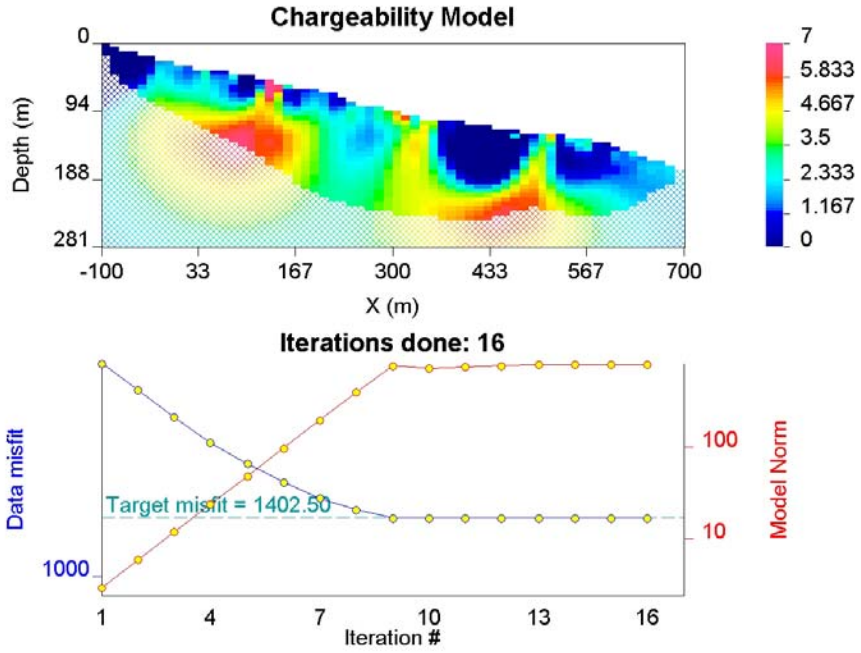

Eldorado:LOnestar West;500 : dipole-dipole : 135 data
Observed Apparent Chargeability
8
6.667
5.333
4
2.667
1.333
0
-100
13
125
238
350
463
575
X (m)
Predicted Data
8
6.667
5.333
4
2.667
1.333
0
-100
13
125
238
350
463
575
X (m)

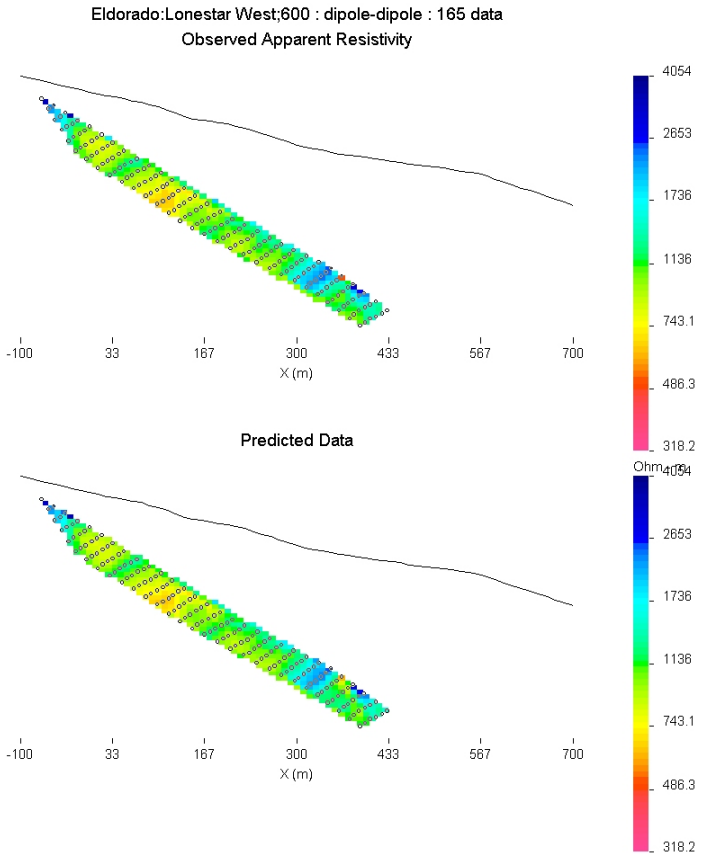

Chargeability Model
Depth (m)
0
77
154
231
-100
13
125
238
350
463
575
X (m)
11.33
9.444
7.555
5.666
3.777
1.889
0
Iterations done: 14
Data misfit
1000
Target misfit = 270.00
1000
100
10
Model Norm
1
3
5
7
9
11
13
Iteration #

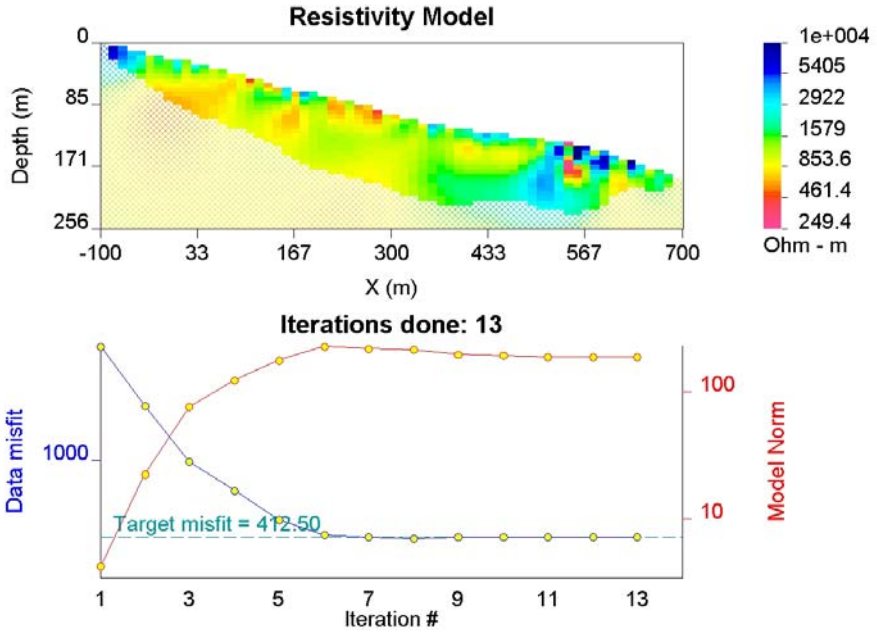

Eldorado:Lonestar West;550 : dipole-dipole : 165 data
Observed Apparent Resistivity
3994
2792
1952
1364
953.7
666.7
466
Ohm - m
-100
33
167
300
433
567
700
X (m)
Predicted Data
3994
2792
1952
1364
953.7
666.7
466
-100
33
167
300
433
567
700
X (m)

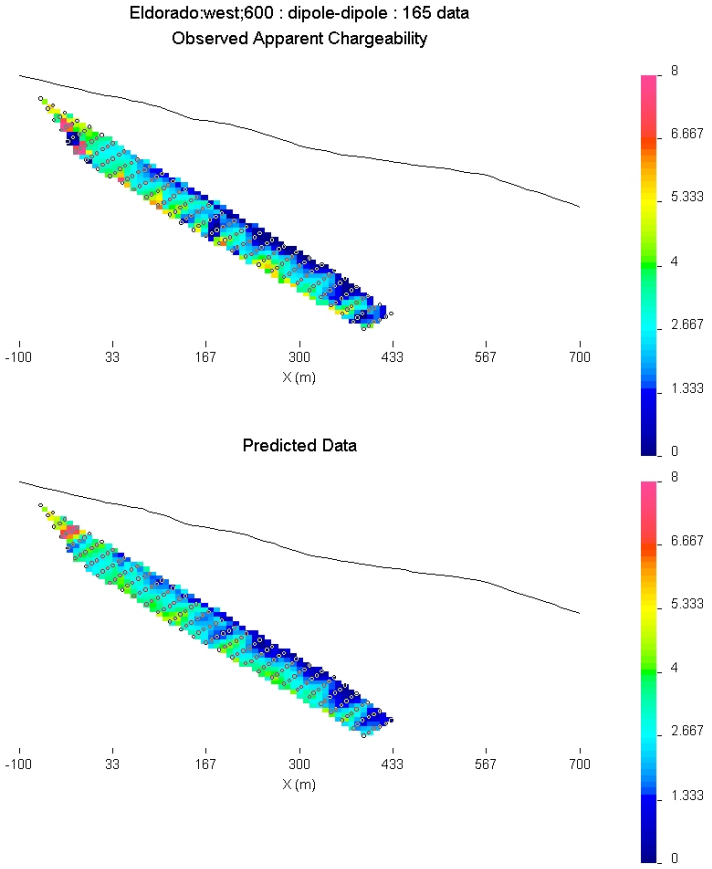

Resistivity Model
Depth (m)
0
81
163
244
-100
33
167
300
433
567
700
X (m)
1.132e+004
6044
3228
1724
920.9
491.8
262.7
Ohm - m
Iterations done: 9
Data misfit
1000
100
Target misfit = 82.50
10
1
Model Norm
1
2
3
4
5
6
7
8
9
Iteration #

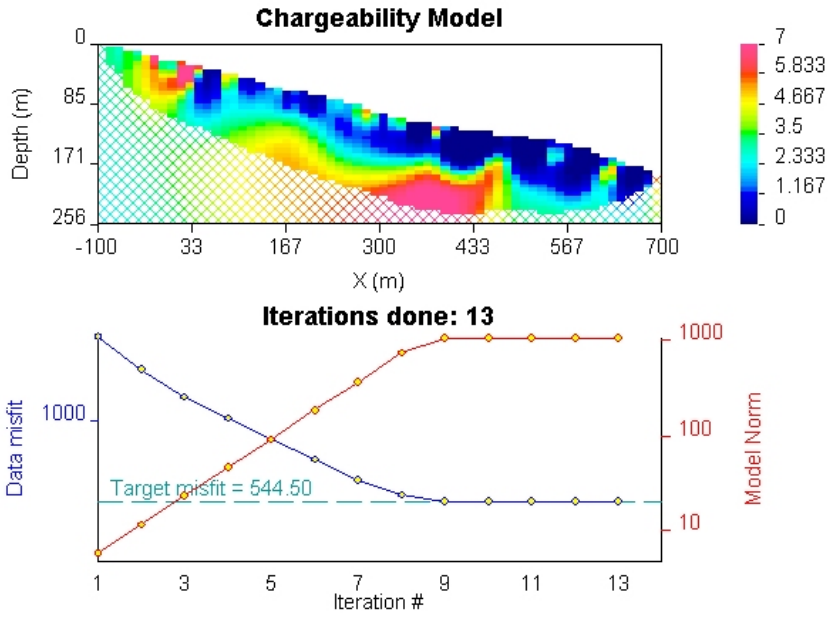

Eldorado:west;550 : dipole-dipole : 165 data
Observed Apparent Chargeability
10
8.333
6.667
5
3.333
1.667
0
-100
33
167
300
433
567
700
X (m)
Predicted Data
10
8.333
6.667
5
3.333
1.667
0
-100
33
167
300
433
567
700
X (m)

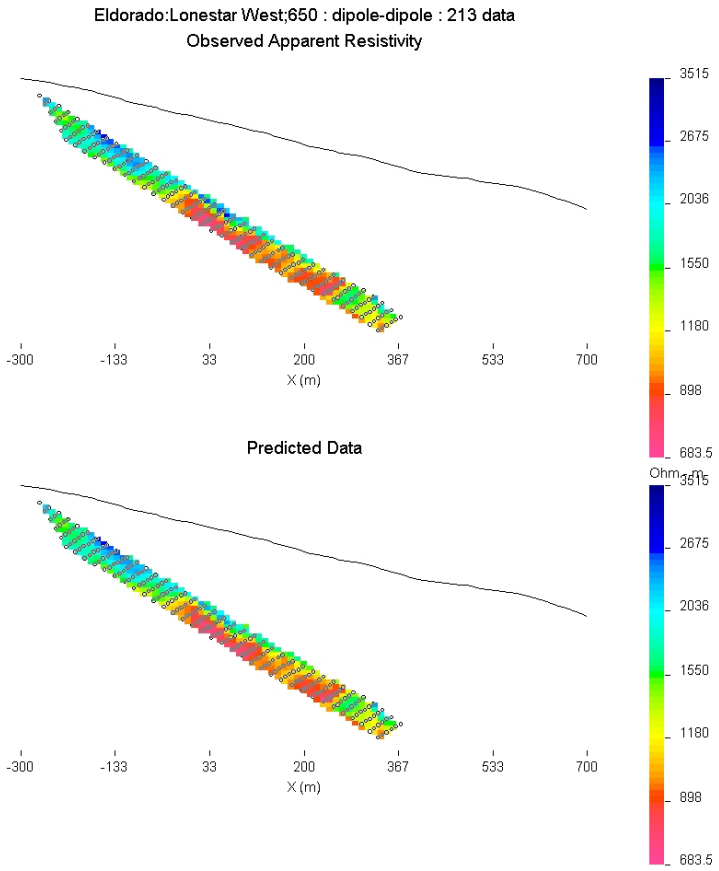

Chargeability Model
Depth (m)
0
94
188
281
-100
33
167
300
433
567
700
X (m)
7
5.833
4.667
3.5
2.333
1.167
0
Iterations done: 16
Data misfit
Target misfit = 1402.50
1000
Model Norm
100
10
1
4
7
10
13
16
Iteration #

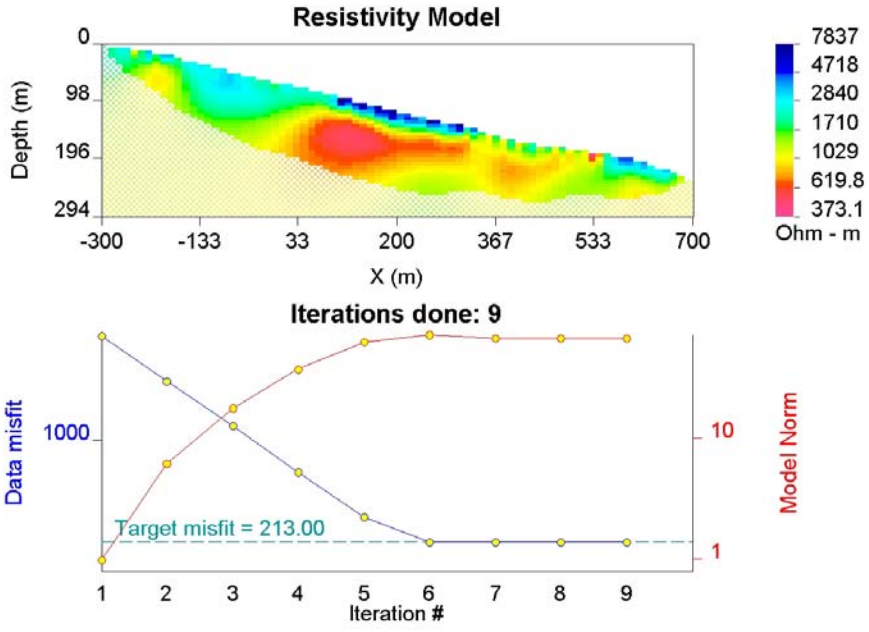

Eldorado:Lonestar West;600 : dipole-dipole : 165 data
Observed Apparent Resistivity
4054
2653
1736
1136
743.1
486.3
318.2
Ohm - m
-100
33
167
300
433
567
700
X (m)
Predicted Data
4054
2653
1736
1136
743.1
486.3
318.2
-100
33
167
300
433
567
700
X (m)

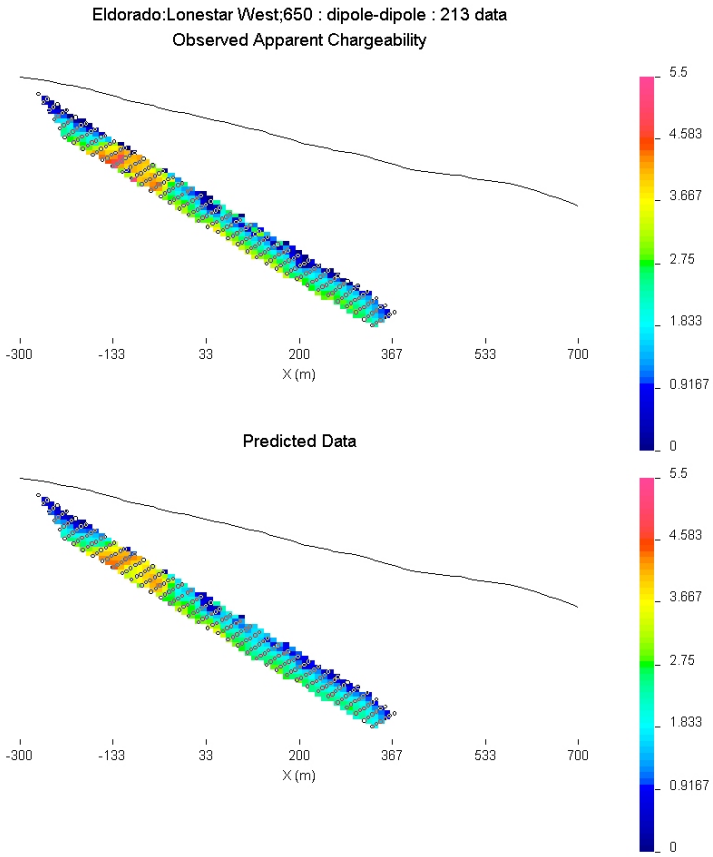

Resistivity Model
Depth (m)
0
85
171
256
-100
33
167
300
433
567
700
X (m)
1e+004
5405
2922
1579
853.6
461.4
249.4
Ohm - m
Iterations done: 13
Data misfit
1000
Target misfit = 412.50
100
10
Model Norm
1
3
5
7
9
11
13
Iteration #

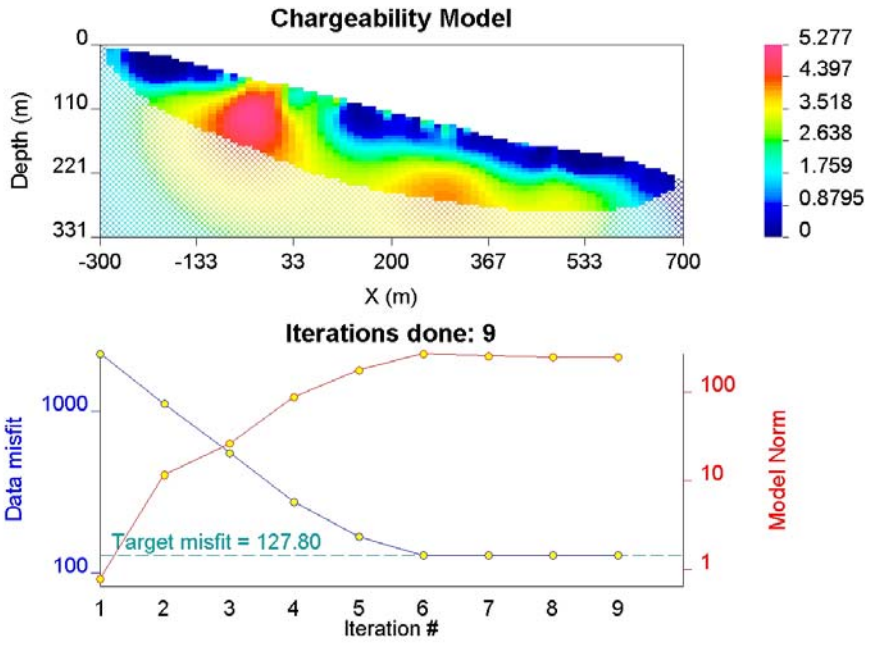

Eldorado:west;600 : dipole-dipole : 165 data
Observed Apparent Chargeability
8
6.667
5.333
4
2.667
1.333
0
-100
33
167
300
433
567
700
X (m)
Predicted Data
8
6.667
5.333
4
2.667
1.333
0
-100
33
167
300
433
567
700
X (m)

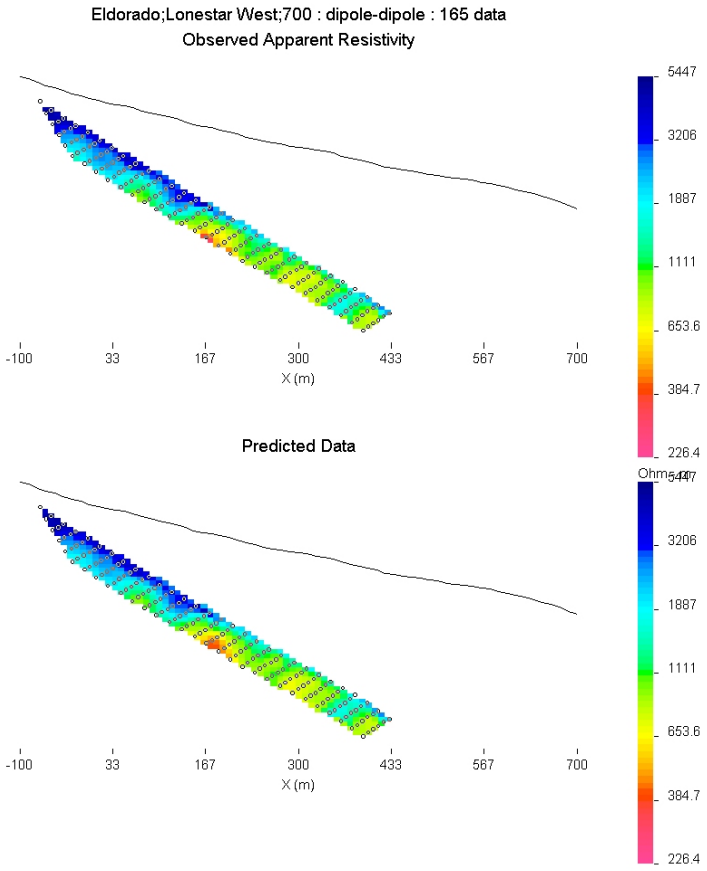

Chargeability Model
Depth (m)
0
85
171
256
-100
33
167
300
433
567
700
X (m)
7
5.833
4.667
3.5
2.333
1.167
0
Iterations done: 13
Data misfit
1000
Target misfit = 544.50
1000
100
10
Model Norm
1
3
5
7
9
11
13
Iteration #

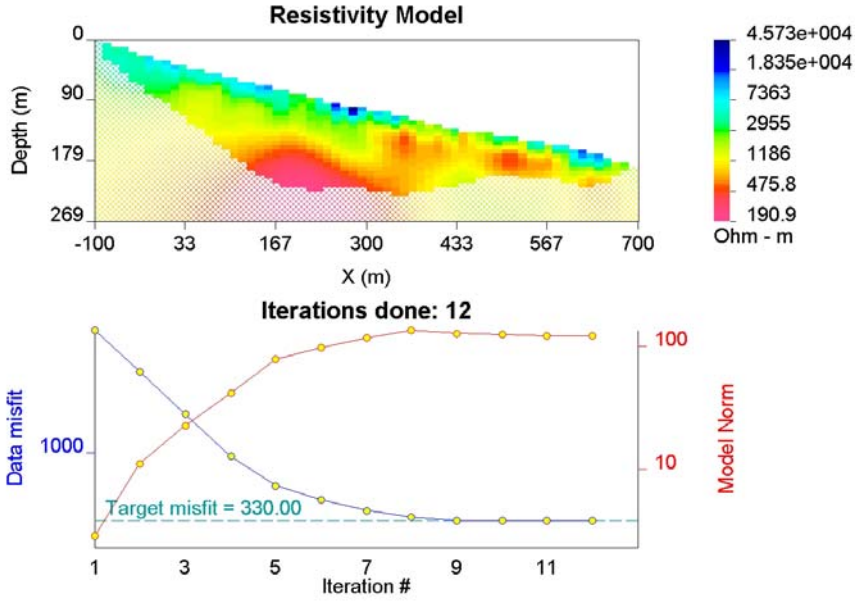

Eldorado:Lonestar West;650 : dipole-dipole : 213 data
Observed Apparent Resistivity
3515
2675
2036
1550
1180
898
683.5
-300
-133
33
200
367
533
700
X (m)
Predicted Data
Ohm - m

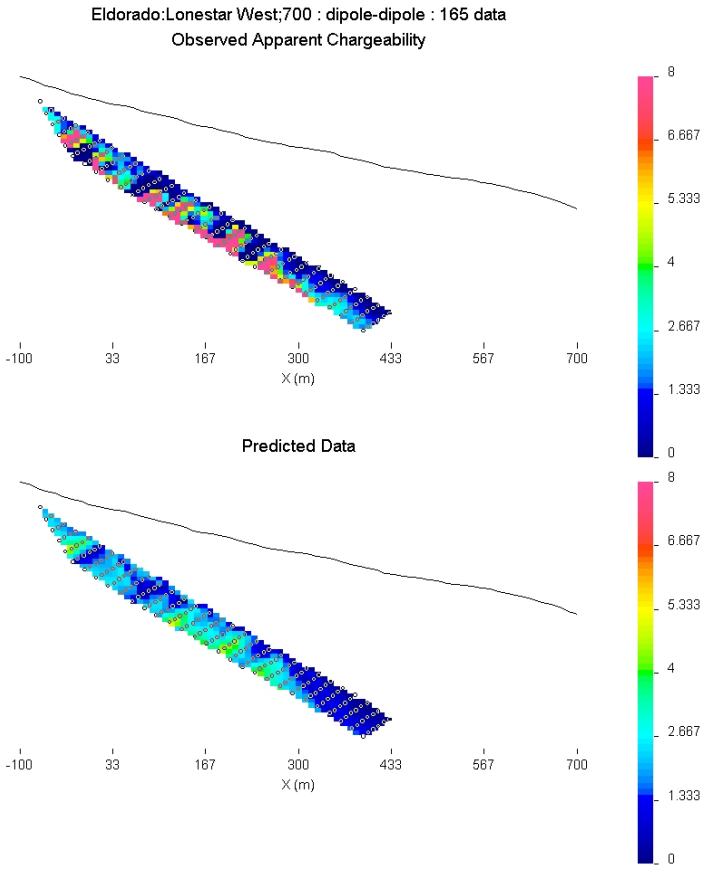

Resistivity Model
Depth (m)
0
98
196
294
-300
-133
33
200
367
533
700
X (m)
7837
4718
2840
1710
1029
619.8
373.1
Ohm - m
Iterations done: 9
Data misfit
1000
Target misfit = 213.00
10
1
Model Norm
1
2
3
4
5
6
7
8
9
Iteration #

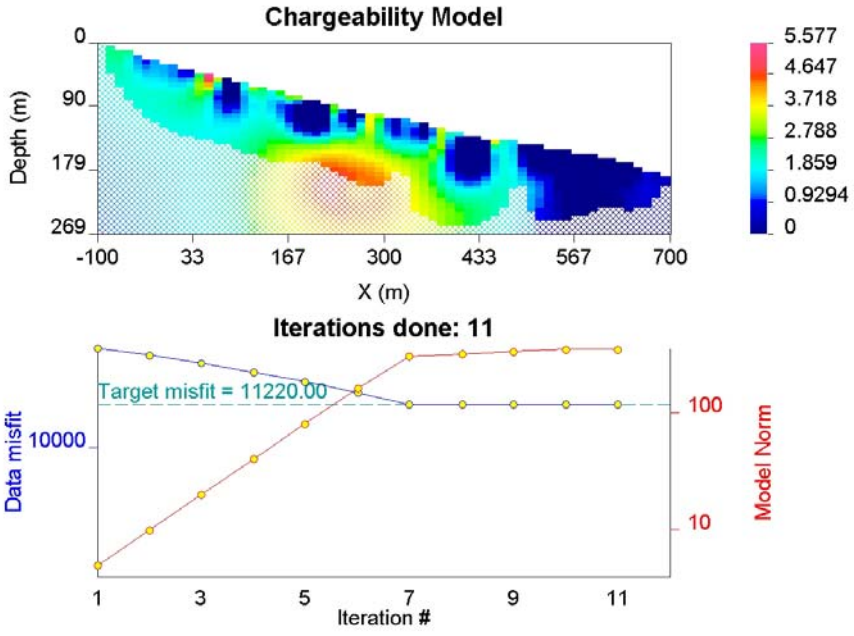

Eldorado:Lonestar West;650 : dipole-dipole : 213 data
Observed Apparent Chargeability
5.5
4.583
3.667
2.75
1.833
0.9167
0
-300
-133
33
200
367
533
700
X (m)
Predicted Data
5.5
4.583
3.667
2.75
1.833
0.9167
0
-300
-133
33
200
367
533
700
X (m)

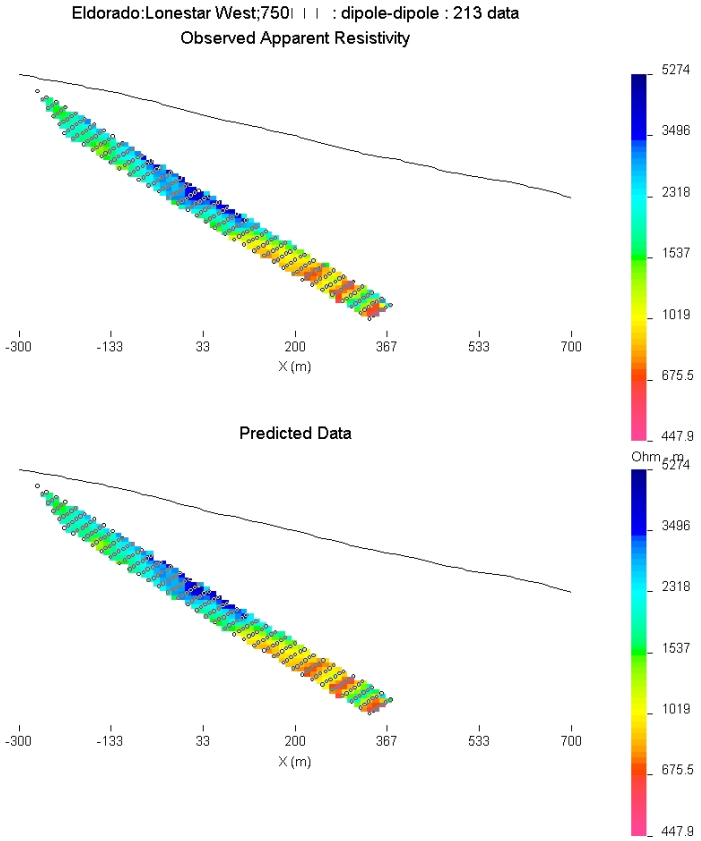

Chargeability Model
Depth (m)
0
110
221
331
-300
-133
33
200
367
533
700
X (m)
5.277
4.397
3.518
2.638
1.759
0.8795
0
Iterations done: 9
Data misfit
1000
100
Target misfit = 127.80
Model Norm
100
10
1
1
2
3
4
5
6
7
8
9
Iteration #

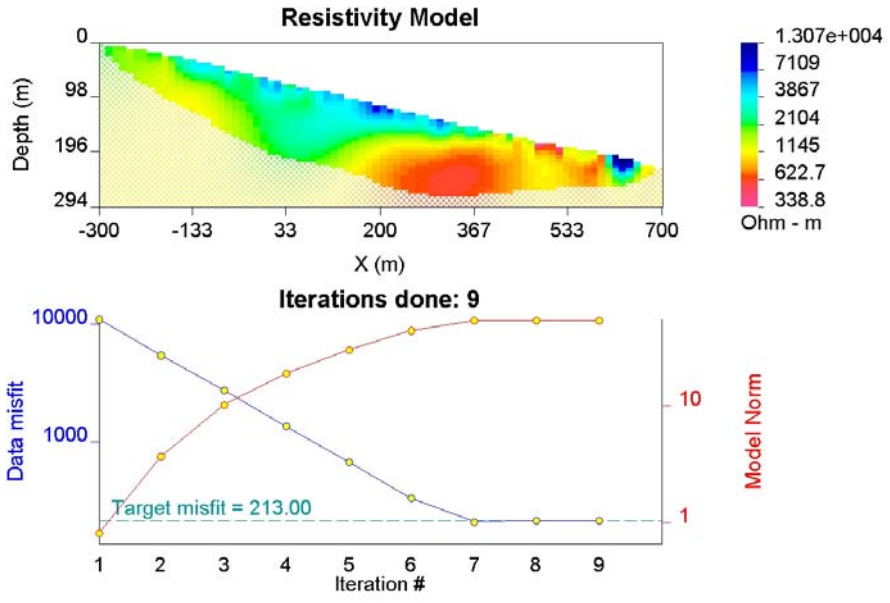

Eldorado;Lonestar West;700 : dipole-dipole : 165 data
Observed Apparent Resistivity
5447
3206
1887
1111
653.6
384.7
226.4
-100
33
167
300
433
567
700
X (m)
Predicted Data
Ohm-m
5447
3206
1887
1111
653.6
384.7
226.4
-100
33
167
300
433
567
700
X (m)

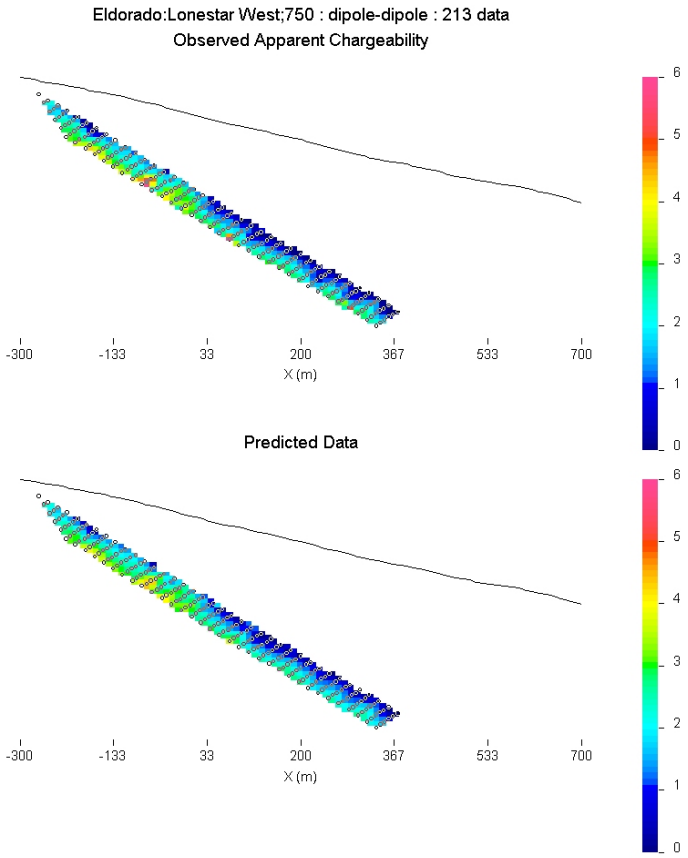

Resistivity Model
Depth (m)
0
90
179
269
-100
33
167
300
433
567
700
X (m)
4.573e+004
1.835e+004
7363
2955
1186
475.8
190.9
Ohm - m
Iterations done: 12
Data misfit
1000
Target misfit = 330.00
100
10
Model Norm
1
3
5
7
9
11
Iteration #

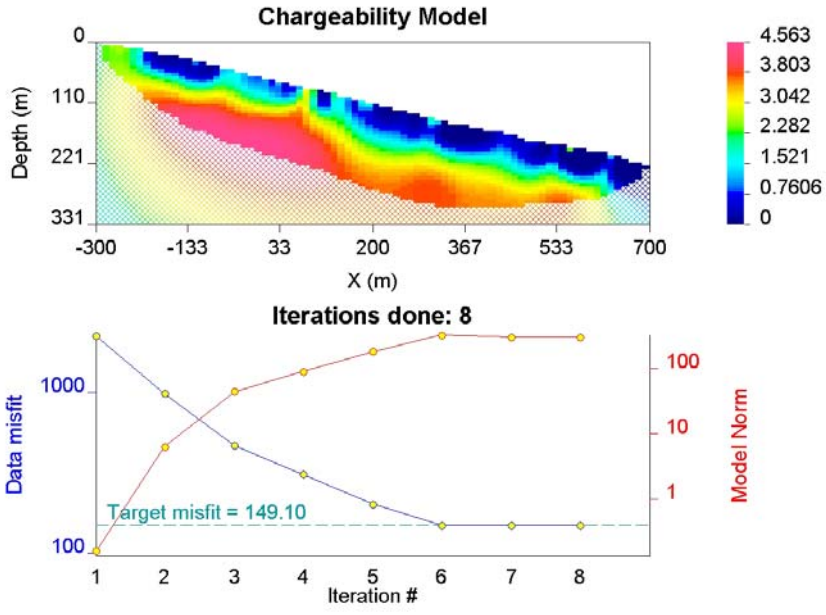

Eldorado:Lonestar West;700 : dipole-dipole : 165 data
Observed Apparent Chargeability
8
6.667
5.333
4
2.667
1.333
0
-100
33
167
300
433
567
700
X (m)
Predicted Data
8
6.667
5.333
4
2.667
1.333
0
-100
33
167
300
433
567
700
X (m)

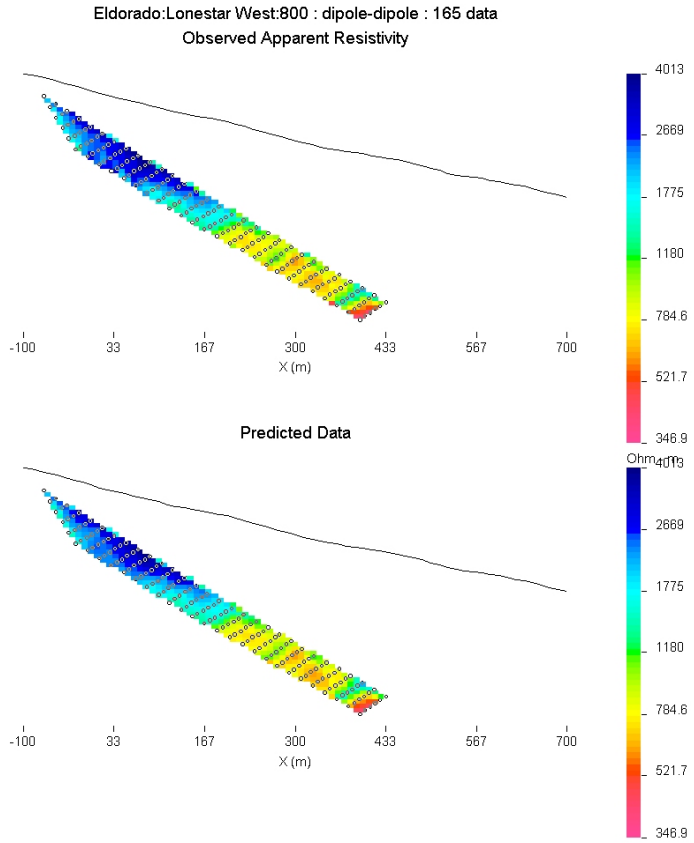

Chargeability Model
Depth (m)
0
90
179
269
-100
33
167
300
433
567
700
X (m)
5.577
4.647
3.718
2.788
1.859
0.9294
0
Iterations done: 11
Target misfit = 11220.00
Data misfit
10000
100
10
Model Norm
1
3
5
7
9
11
Iteration #

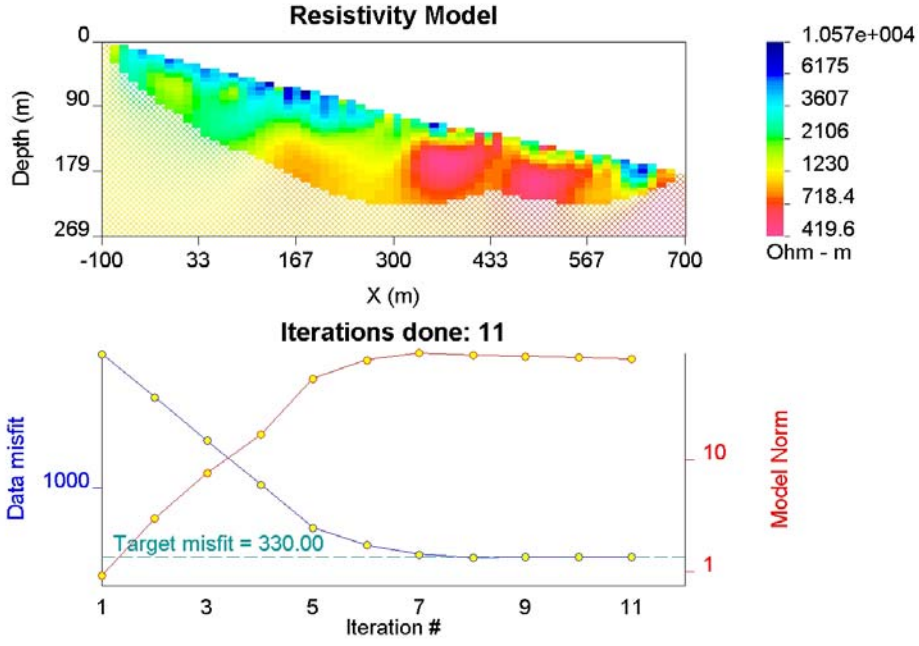

Eldorado:Lonestar West;750 : dipole-dipole : 213 data
Observed Apparent Resistivity
5274
3496
2318
1537
1019
675.5
447.9
-300
-133
33
200
367
533
700
X (m)
Predicted Data
Ohm - m

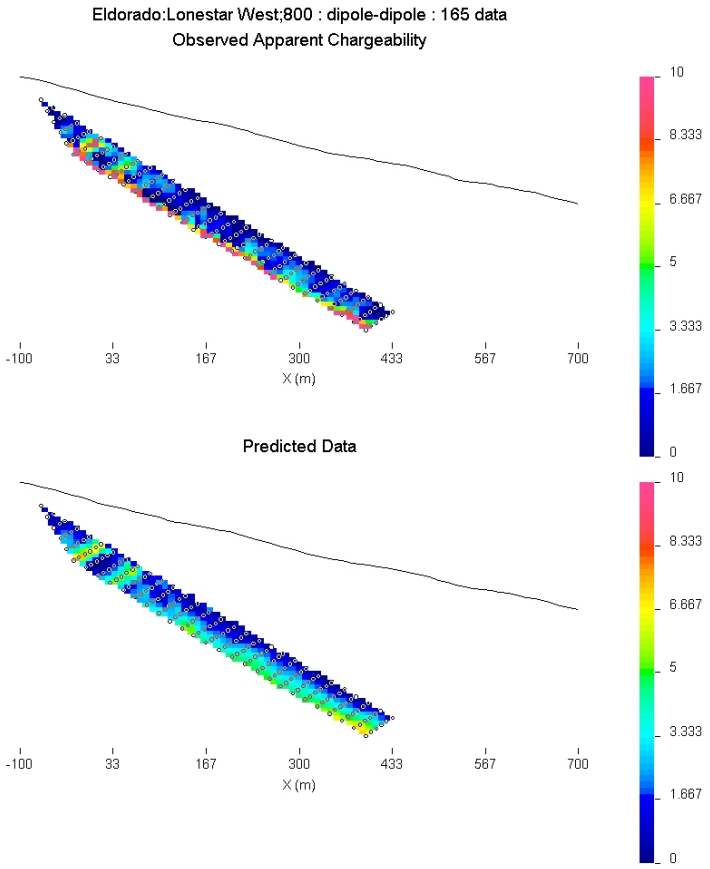

Resistivity Model
Depth (m)
0
98
196
294
-300
-133
33
200
367
533
700
X (m)
1.307e+004
7109
3867
2104
1145
622.7
338.8
Ohm - m
Iterations done: 9
Data misfit
10000
1000
Target misfit = 213.00
Model Norm
10
1
1
2
3
4
5
6
7
8
9
Iteration #

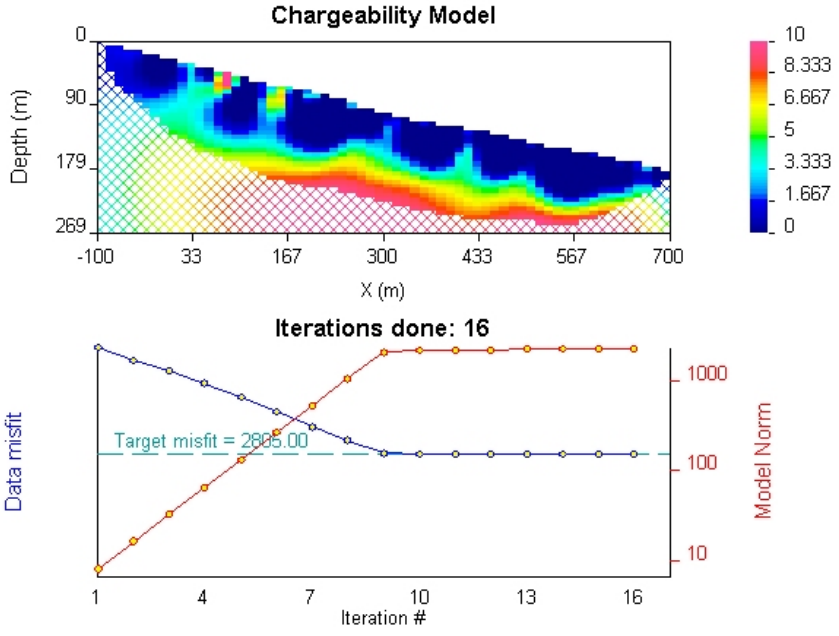

Eldorado:Lonestar West;750 : dipole-dipole : 213 data
Observed Apparent Chargeability
6
5
4
3
2
1
0
-300
-133
33
200
367
533
700
X (m)
Predicted Data
6
5
4
3
2
1
0
-300
-133
33
200
367
533
700
X (m)

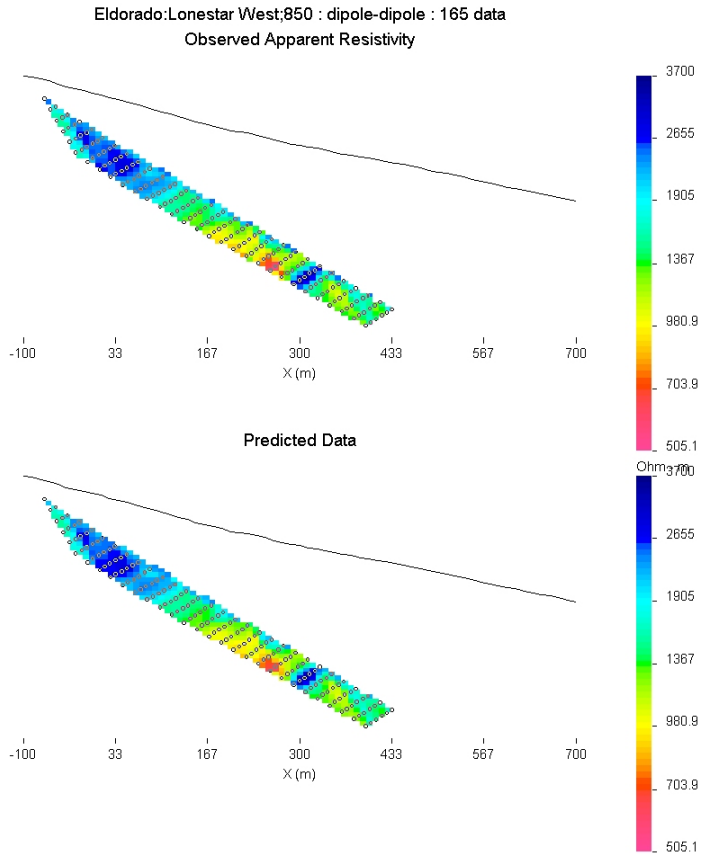

Chargeability Model
Depth (m)
0
110
221
331
-300
-133
33
200
367
533
700
X (m)
4.563
3.803
3.042
2.282
1.521
0.7606
0
Iterations done: 8
Data misfit
1000
100
Target misfit = 149.10
1
2
3
4
5
6
7
8
Iteration #
100
10
1
Model Norm

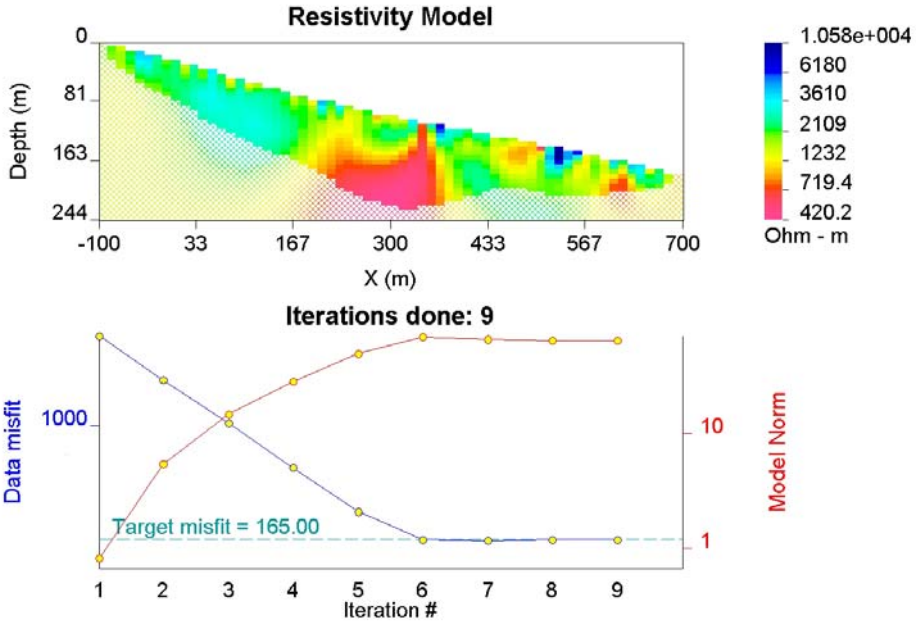

Eldorado:Lonestar West:800 : dipole-dipole : 165 data
Observed Apparent Resistivity
4013
2669
1775
1180
784.6
521.7
346.9
-100
33
167
300
433
567
700
X (m)
Predicted Data
Ohm-m

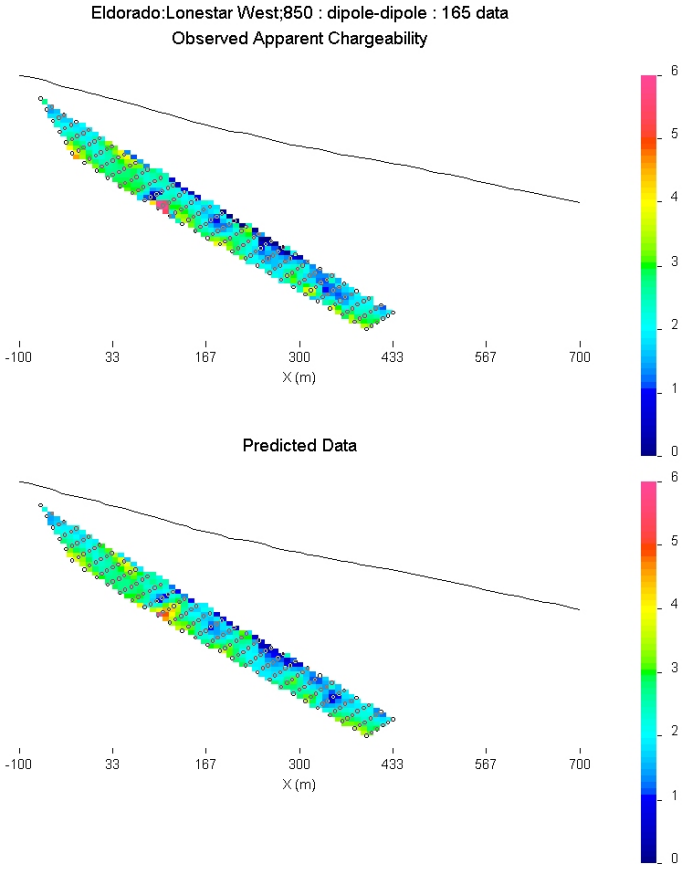

Resistivity Model
Depth (m)
0
90
179
269
-100
33
167
300
433
567
700
X (m)
1.057e+004
6175
3607
2106
1230
718.4
419.6
Ohm - m
Iterations done: 11
Data misfit
1000
Target misfit = 330.00
10
1
Model Norm
1
3
5
7
9
11
Iteration #

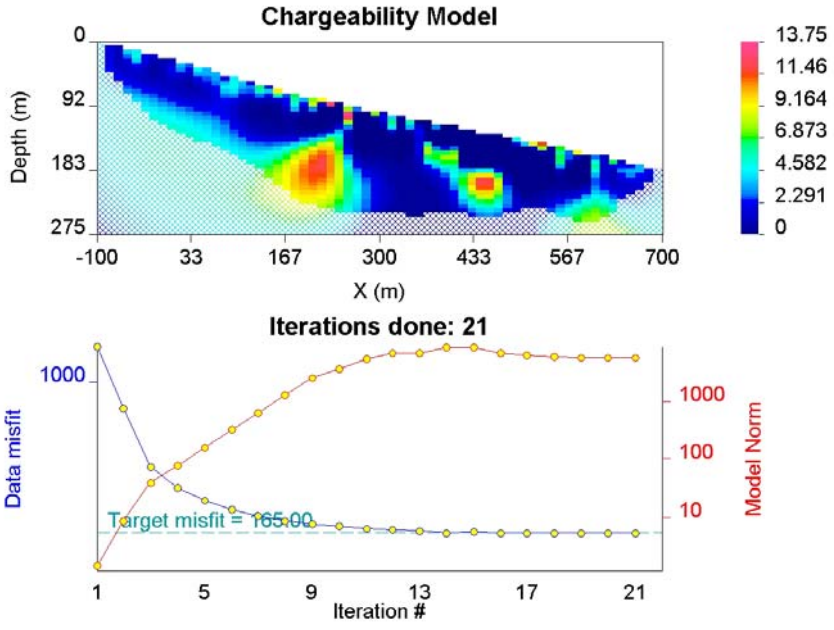

Eldorado:Lonestar West;800 : dipole-dipole : 165 data
Observed Apparent Chargeability
10
8.333
6.667
5
3.333
1.667
0
-100
33
167
300
433
567
700
X (m)
Predicted Data
10
8.333
6.667
5
3.333
1.667
0
-100
33
167
300
433
567
700
X (m)

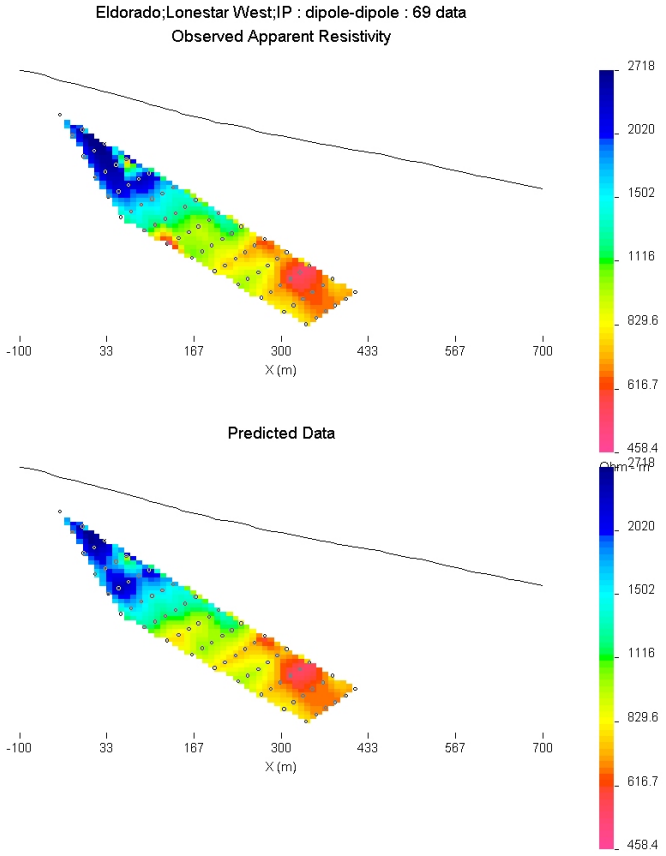

Chargeability Model
Depth (m)
0
90
179
269
-100
33
167
300
433
567
700
X (m)
10
8.333
6.667
5
3.333
1.667
0
Iterations done: 16
Data misfit
Target misfit = 2885.00
Model Norm
1000
100
10
1
4
7
10
13
16
Iteration #

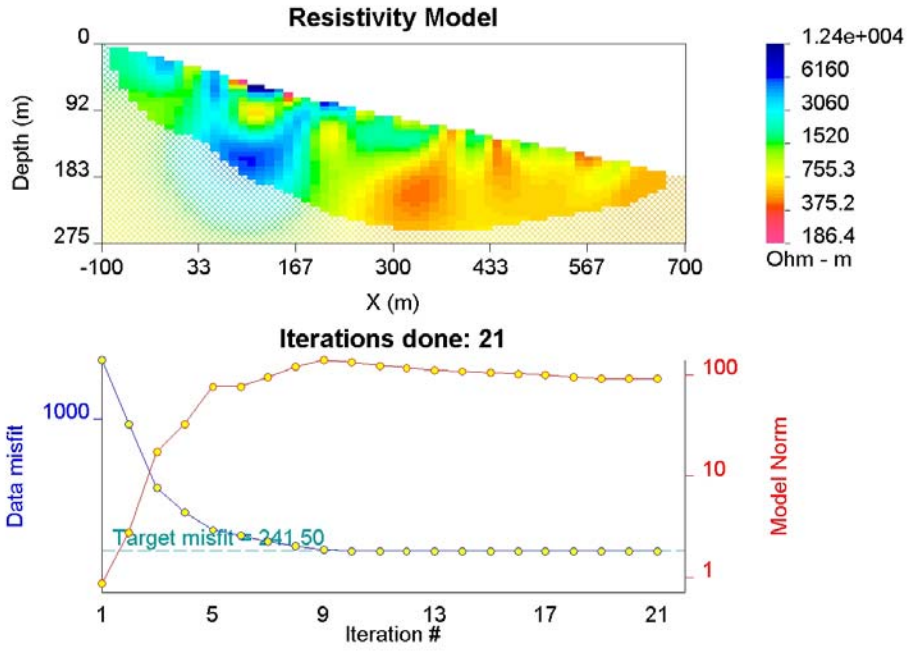

Eldorado:Lonestar West;850 : dipole-dipole : 165 data
Observed Apparent Resistivity
3700
2655
1905
1367
980.9
703.9
505.1
-100
33
167
300
433
567
700
X (m)
Predicted Data
Ohm - m

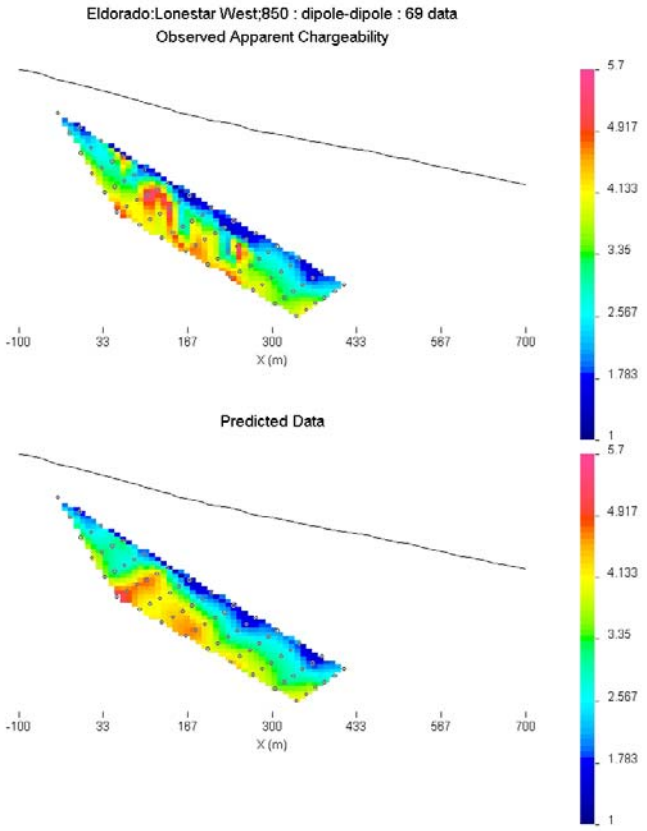

Resistivity Model
Depth (m)
0
81
163
244
-100
33
167
300
433
567
700
X (m)
1.058e+004
6180
3610
2109
1232
719.4
420.2
Ohm - m
Iterations done: 9
Data misfit
1000
Target misfit = 165.00
10
1
Model Norm
1
2
3
4
5
6
7
8
9
Iteration #

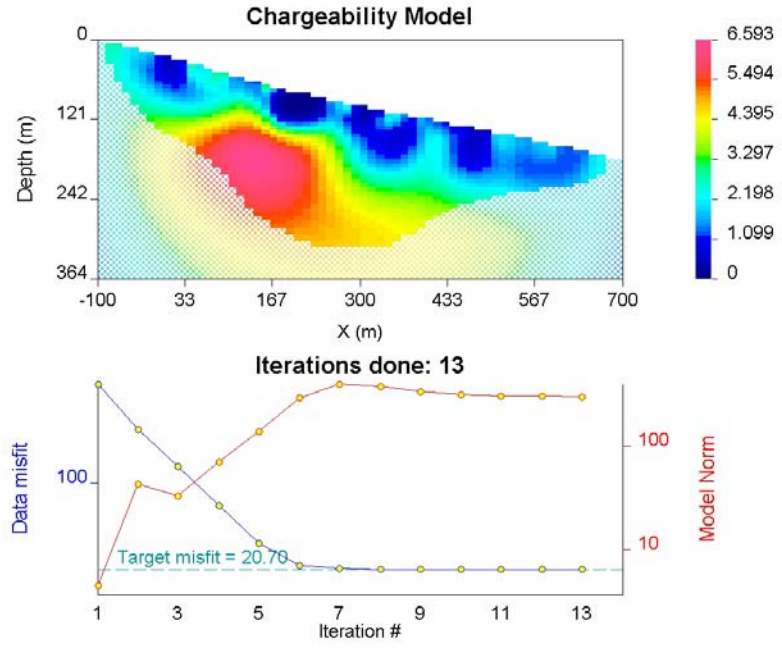

Eldorado:Lonestar West;850 : dipole-dipole : 165 data
Observed Apparent Chargeability
-100
33
167
300
433
567
700
X (m)
6
5
4
3
2
1
0
Predicted Data
-100
33
167
300
433
567
700
X (m)
6
5
4
3
2
1
0


Chargeability Model
Depth (m)
0
92
183
275
-100
33
167
300
433
567
700
X (m)
13.75
11.46
9.164
6.873
4.582
2.291
0
Iterations done: 21
Data misfit
1000
Target misfit = 165.00
1
5
9
13
17
21
Iteration #
1000
100
10
Model Norm

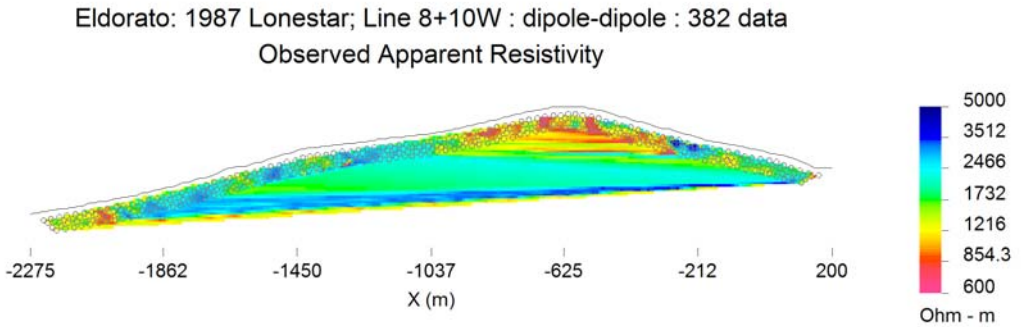

Eldorado;Lonestar West;IP : dipole-dipole : 69 data
Observed Apparent Resistivity
2718
2020
1502
1116
829.6
616.7
458.4
-100
33
167
300
433
567
700
X (m)
Predicted Data
2718
2020
1502
1116
829.6
616.7
458.4
-100
33
167
300
433
567
700
X (m)

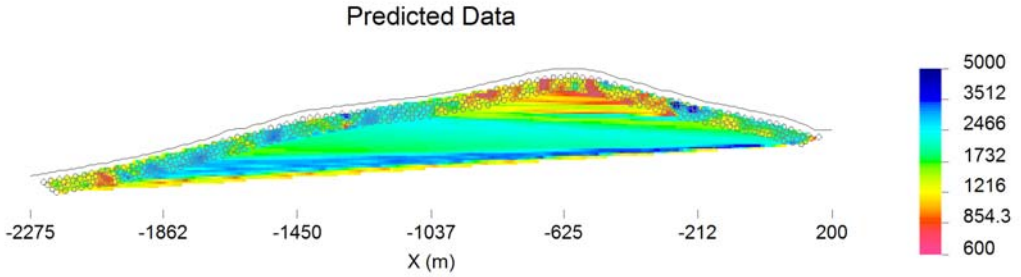

Resistivity Model
Depth (m)
0
92
183
275
-100
33
167
300
433
567
700
X (m)
1.24e+004
6160
3060
1520
755.3
375.2
186.4
Ohm - m
Iterations done: 21
Data misfit
1000
Target misfit = 241.50
Model Norm
100
10
1
1
5
9
13
17
21
Iteration #

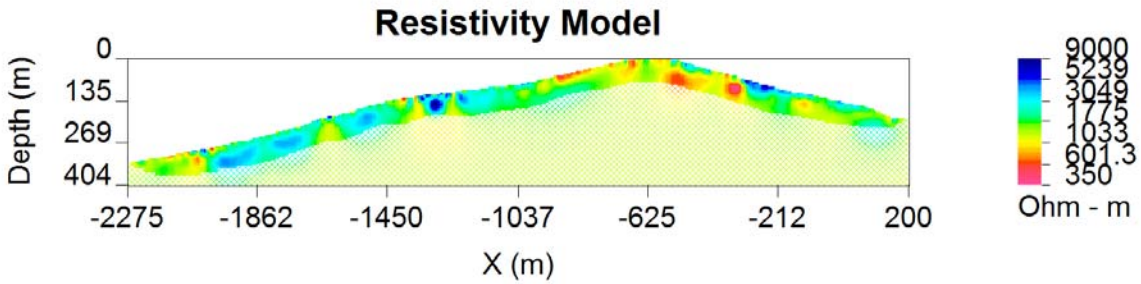

Eldorado:Lonestar West;850 : dipole-dipole : 69 data
Observed Apparent Chargeability
5.7
4.917
4.133
3.35
2.567
1.783
1
-100
33
167
300
433
567
700
X (m)
Predicted Data
5.7
4.917
4.133
3.35
2.567
1.783
1
-100
33
167
300
433
567
700
X (m)

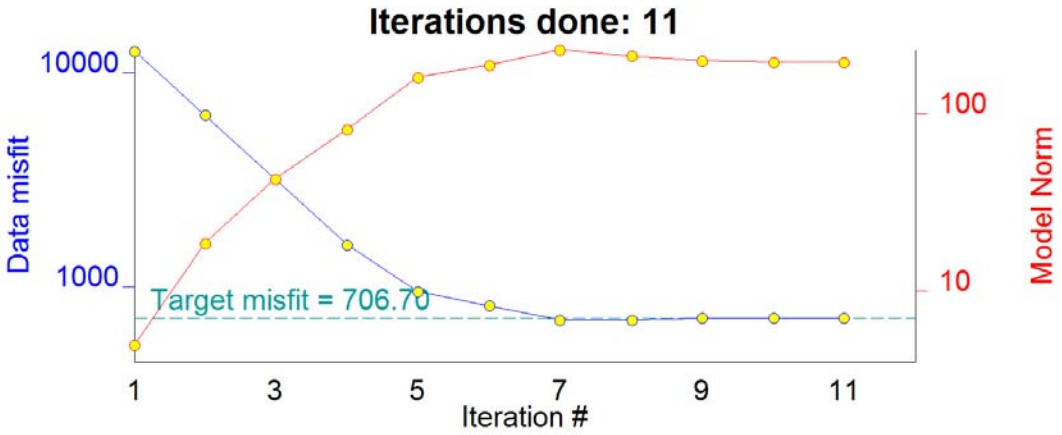

Chargeability Model
Depth (m)
0
121
242
364
-100
33
167
300
433
567
700
X (m)
6.593
5.494
4.395
3.297
2.198
1.099
0
Iterations done: 13
Data misfit
100
Target misfit = 20.70
100
10
Model Norm
1
3
5
7
9
11
13
Iteration #

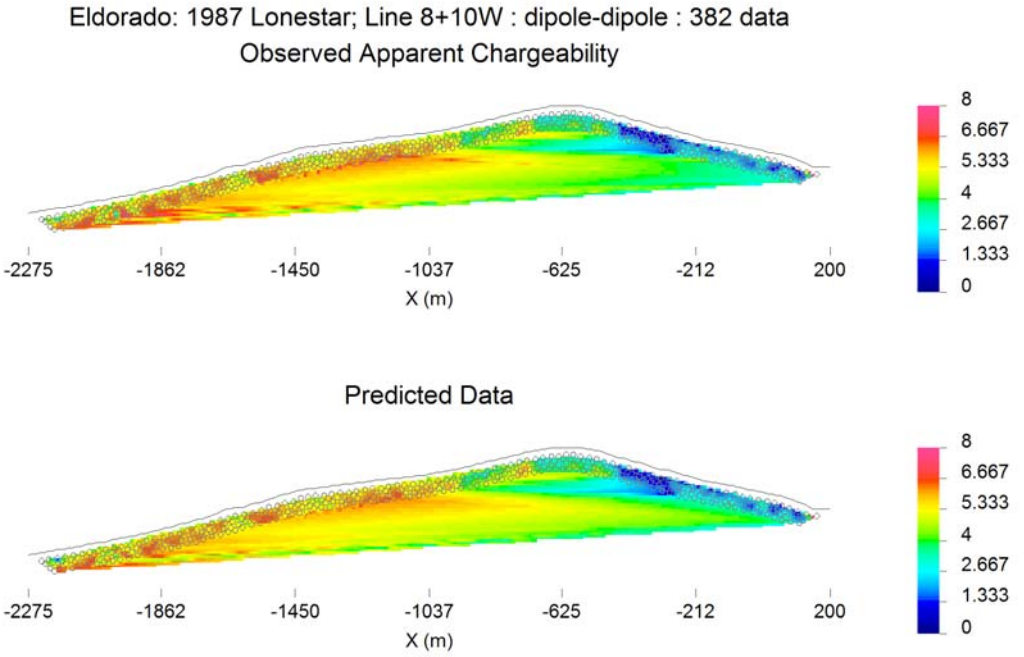
1987 grid

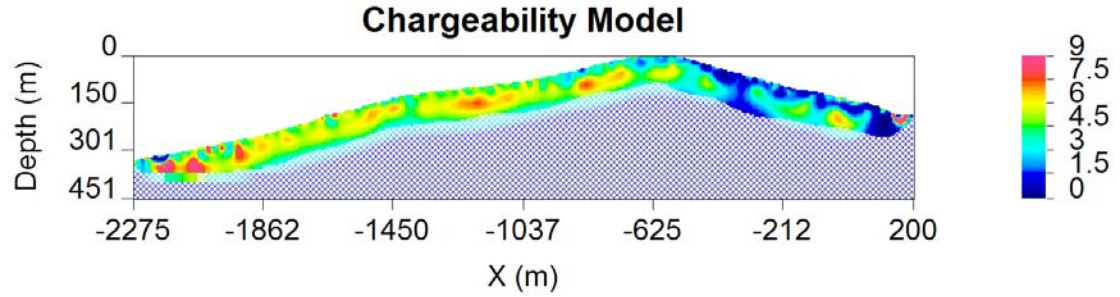

Eldorato: 1987 Lonestar; Line 8+10W : dipole-dipole : 382 data
Observed Apparent Resistivity
5000
3512
2466
1732
1216
854.3
600
Ohm - m
-2275
-1862
-1450
-1037
-625
-212
200
X (m)

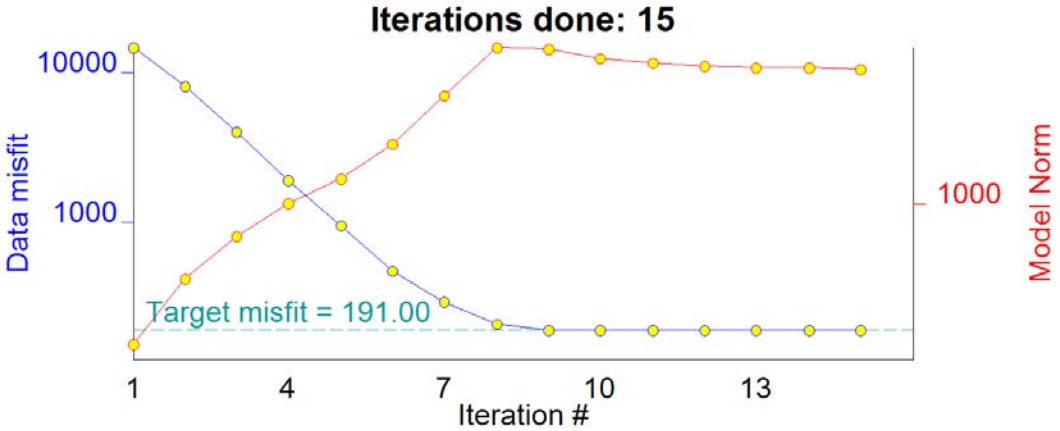

Predicted Data
5000
3512
2466
1732
1216
854.3
600
-2275
-1862
-1450
-1037
-625
-212
200
X (m)

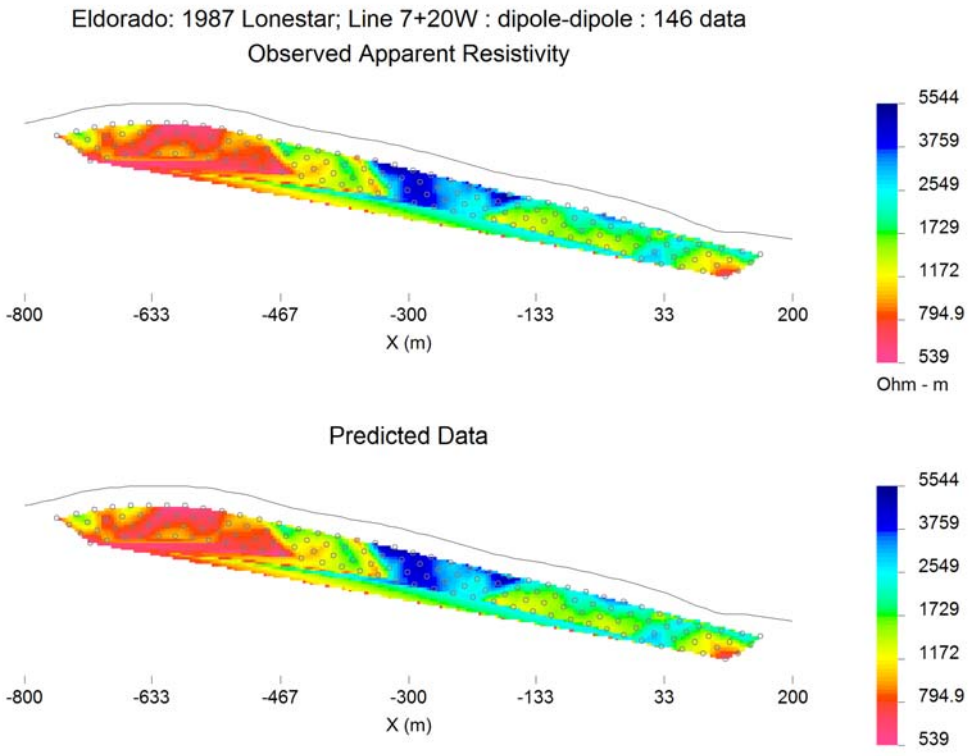

Resistivity Model
Depth (m)
0
135
269
404
-2275
-1862
-1450
-1037
-625
-212
200
X (m)
9000
5239
3049
1775
1033
601.3
350
Ohm - m

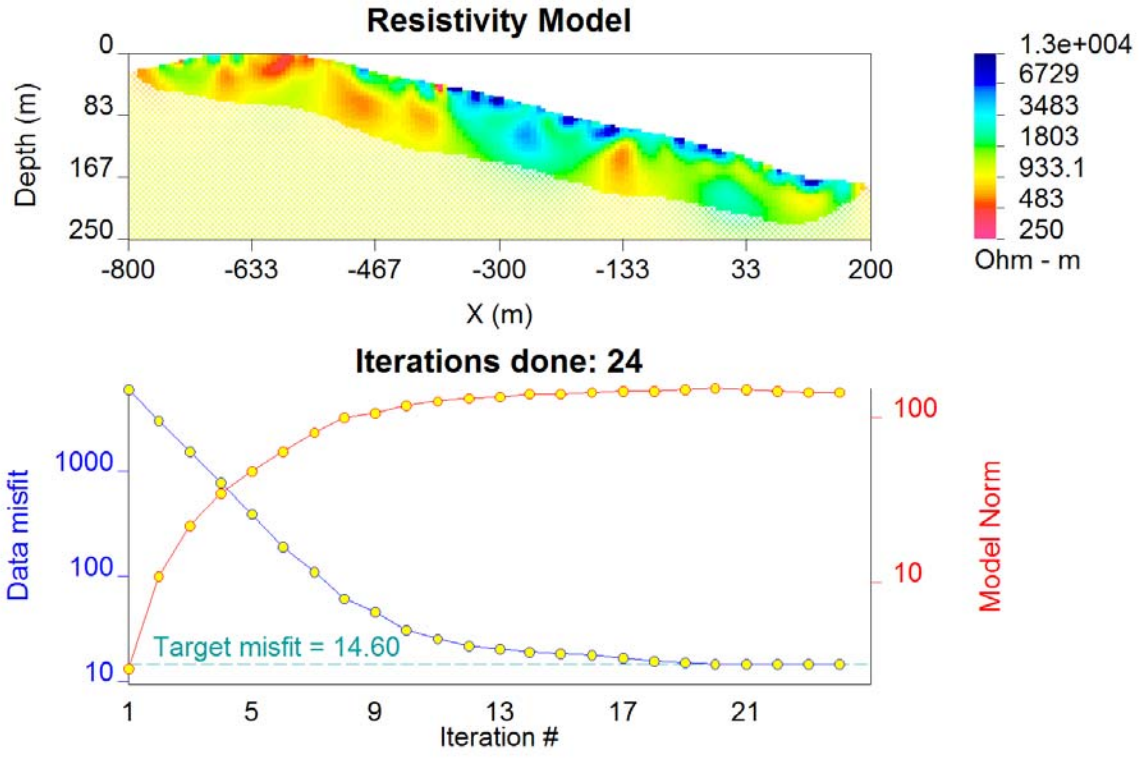

Iterations done: 11
Data misfit
10000
1000
Target misfit = 706.70
100
10
Model Norm
1
3
5
7
9
11
Iteration #

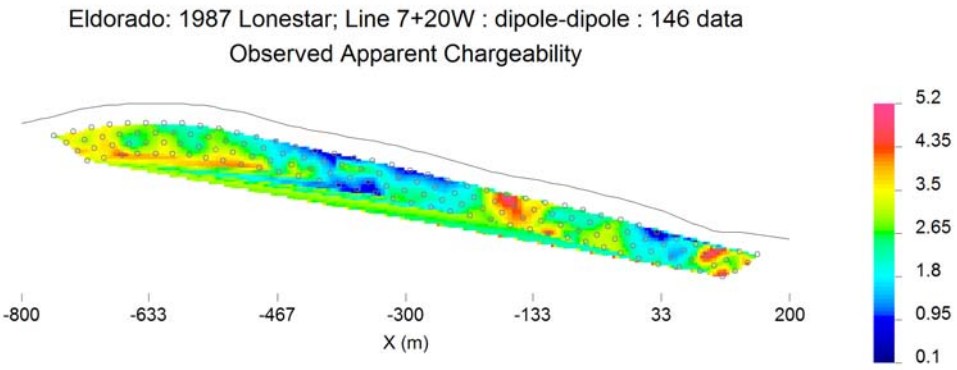

Eldorado: 1987 Lonestar; Line 8+10W : dipole-dipole : 382 data
Observed Apparent Chargeability
8
6.667
5.333
4
2.667
1.333
0
-2275
-1862
-1450
-1037
-625
-212
200
X (m)
Predicted Data
8
6.667
5.333
4
2.667
1.333
0
-2275
-1862
-1450
-1037
-625
-212
200
X (m)

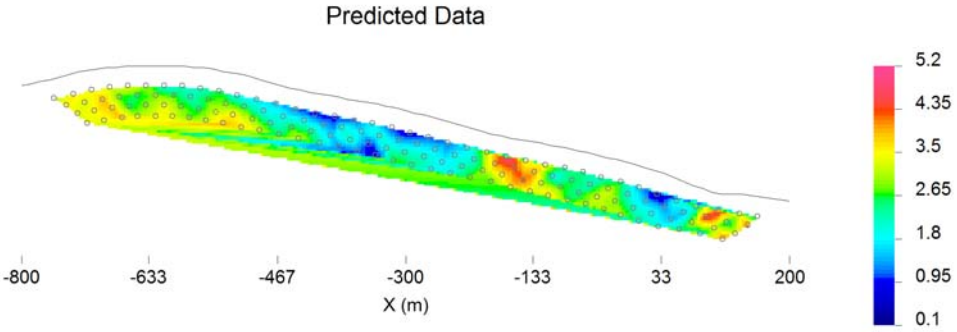

Chargeability Model
Depth (m)
0
150
301
451
-2275
-1862
-1450
-1037
-625
-212
200
X (m)
9
7.5
6
4.5
3
1.5
0

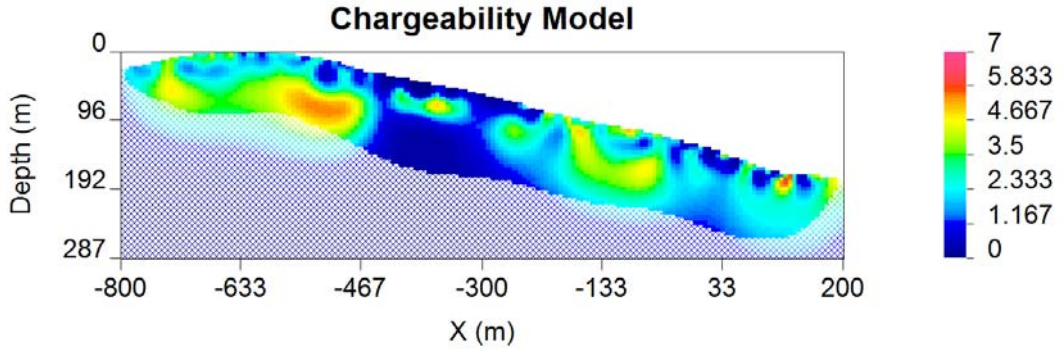

Iterations done: 15
Data misfit
10000
1000
Target misfit = 191.00
1000
Model Norm
1
4
7
10
13
Iteration #

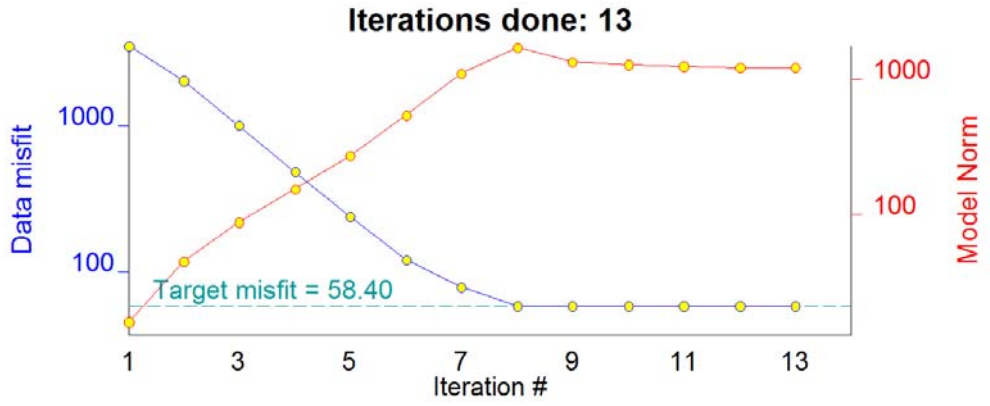

Eldorado: 1987 Lonestar; Line 7+20W : dipole-dipole : 146 data
Observed Apparent Resistivity
5544
3759
2549
1729
1172
794.9
539
Ohm - m
-800
-633
-467
-300
-133
33
200
X (m)
Predicted Data
5544
3759
2549
1729
1172
794.9
539
-800
-633
-467
-300
-133
33
200
X (m)

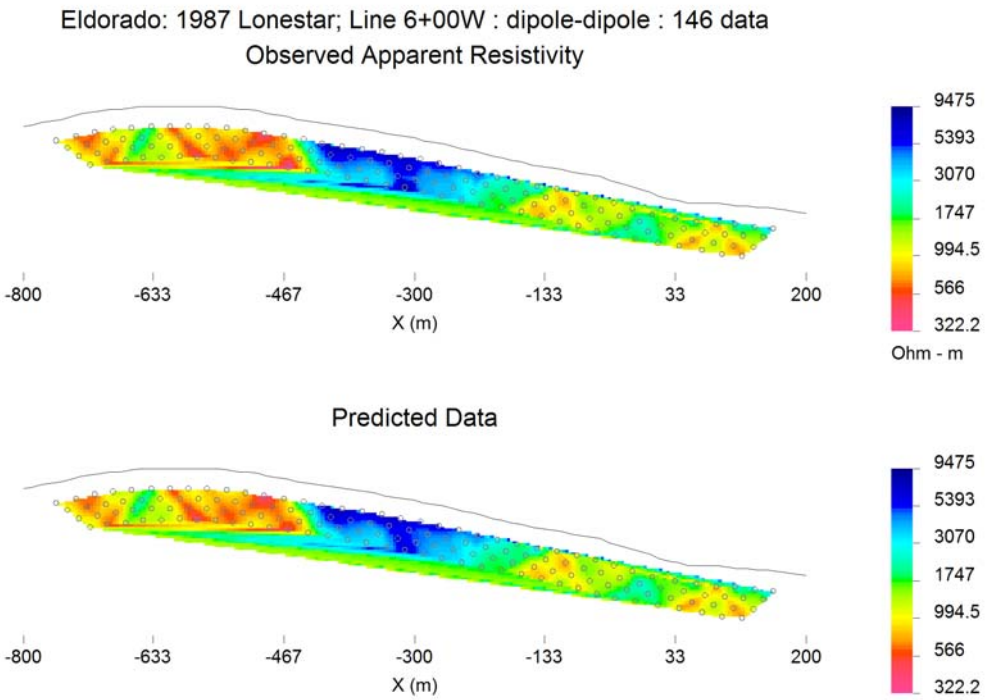

Resistivity Model
Depth (m)
0
83
167
250
-800
-633
-467
-300
-133
33
200
X (m)
1.3e+004
6729
3483
1803
933.1
483
250
Ohm - m
Iterations done: 24
Data misfit
1000
100
10
100
10
Model Norm
Target misfit = 14.60
1
5
9
13
17
21
Iteration #

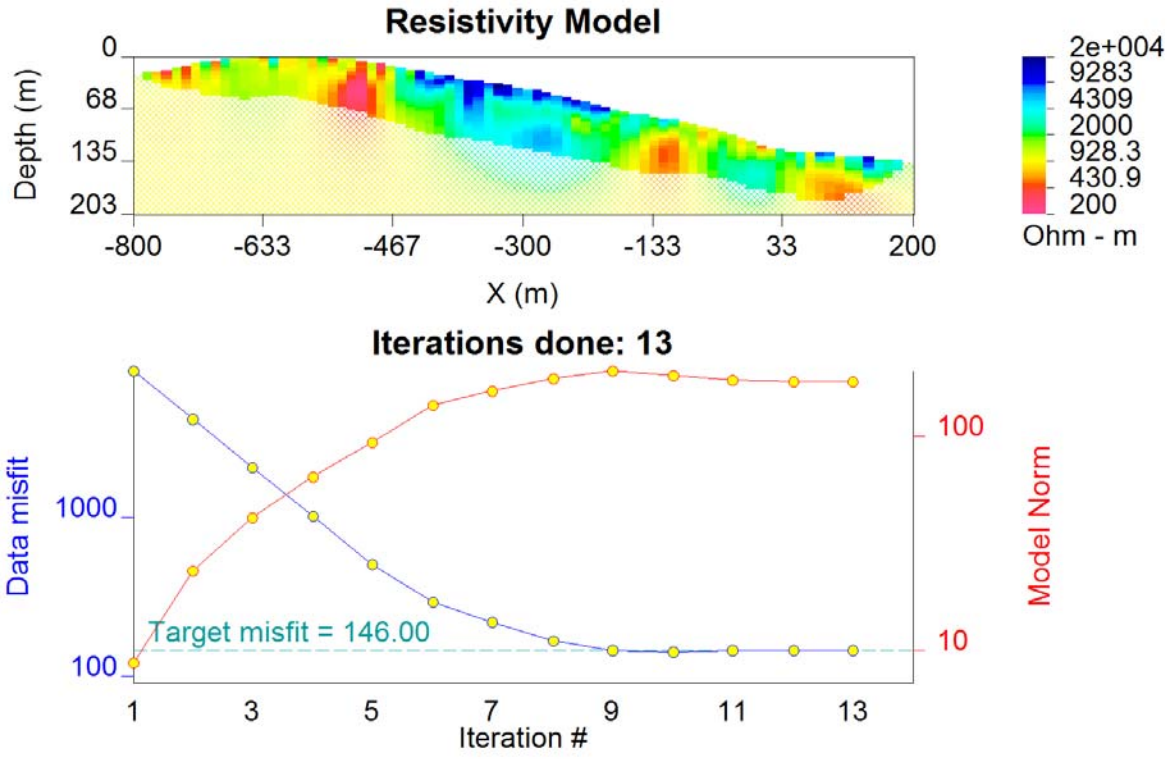

Eldorado: 1987 Lonestar; Line 7+20W : dipole-dipole : 146 data
Observed Apparent Chargeability
5.2
4.35
3.5
2.65
1.8
0.95
0.1
-800
-633
-467
-300
-133
33
200
X (m)

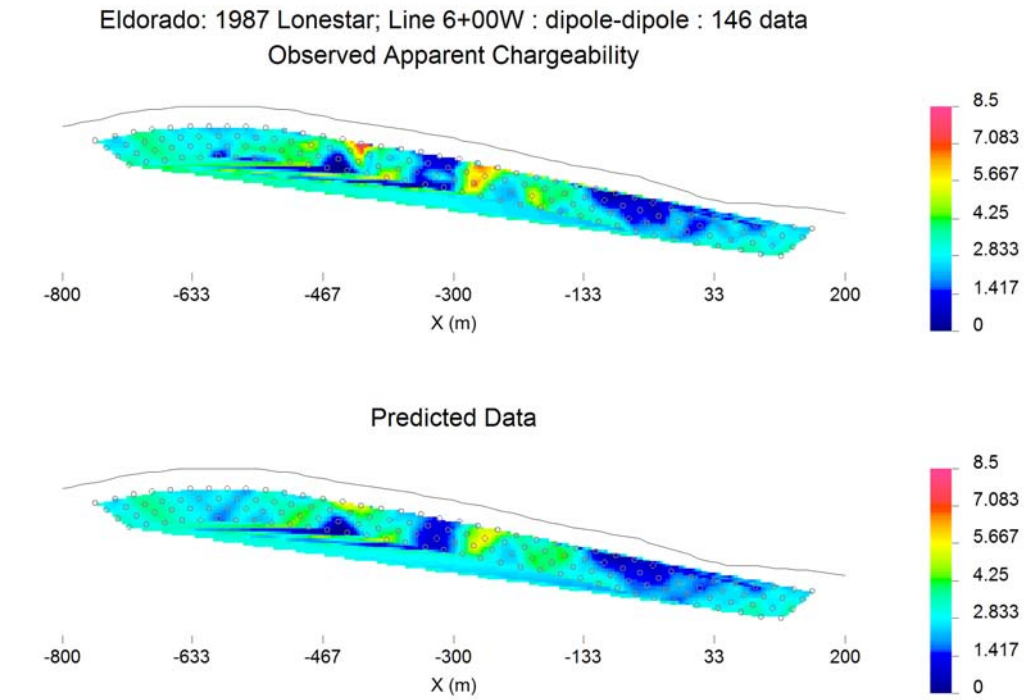

Predicted Data
5.2
4.35
3.5
2.65
1.8
0.95
0.1
-800
-633
-467
-300
-133
33
200
X (m)

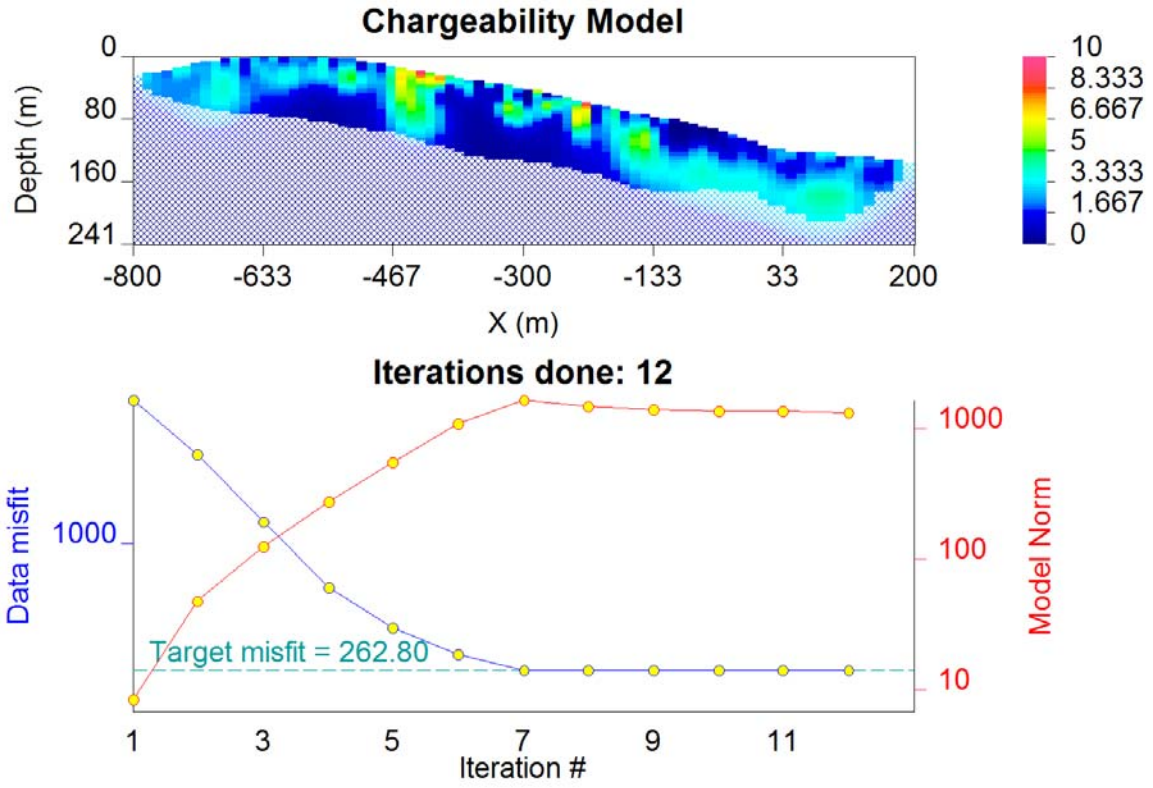

Chargeability Model
Depth (m)
0
96
192
287
7
5.833
4.667
3.5
2.333
1.167
0
-800
-633
-467
-300
-133
33
200
X (m)

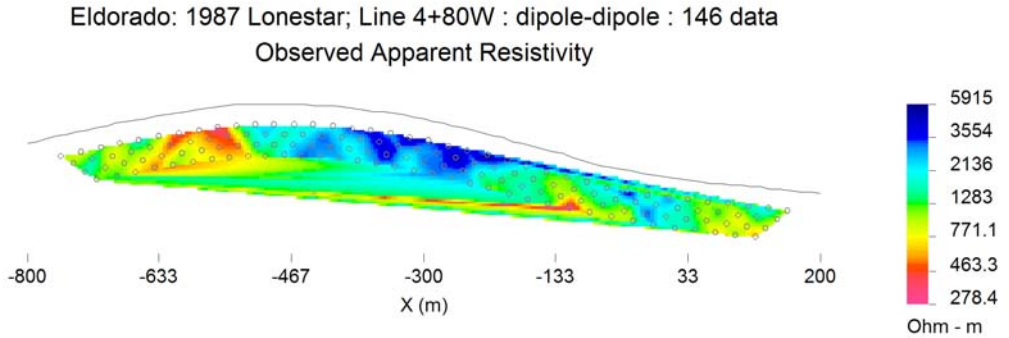

Iterations done: 13
Data misfit
1000
100
Target misfit = 58.40
1000
100
Model Norm
1
3
5
7
9
11
13
Iteration #

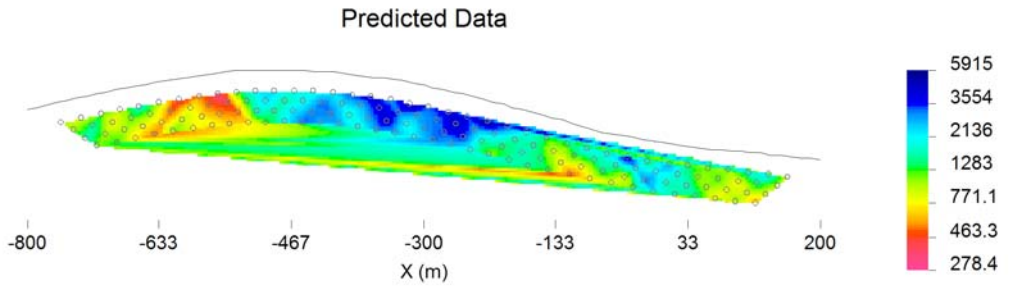

Eldorado: 1987 Lonestar; Line 6+00W : dipole-dipole : 146 data
Observed Apparent Resistivity
9475
5393
3070
1747
994.5
566
322.2
Ohm - m
-800
-633
-467
-300
-133
33
200
X (m)
Predicted Data
9475
5393
3070
1747
994.5
566
322.2
-800
-633
-467
-300
-133
33
200
X (m)

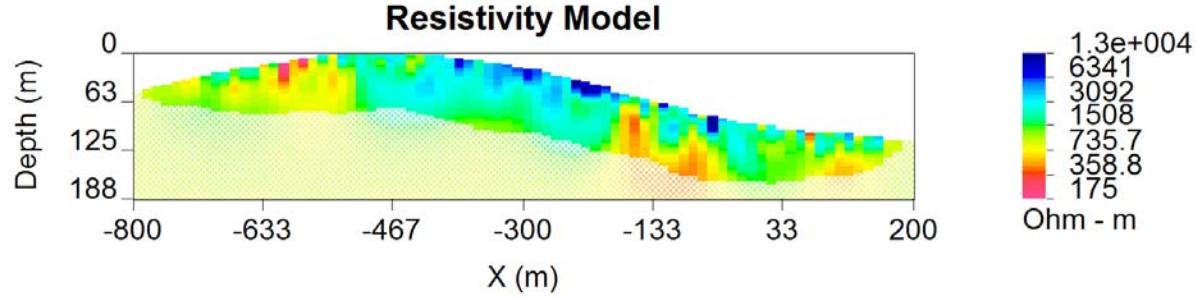

Resistivity Model
Depth (m)
0
68
135
203
-800
-633
-467
-300
-133
33
200
X (m)
2e+004
9283
4309
2000
928.3
430.9
200
Ohm - m
Iterations done: 13
Data misfit
1000
100
Target misfit = 146.00
100
10
Model Norm
1
3
5
7
9
11
13
Iteration #

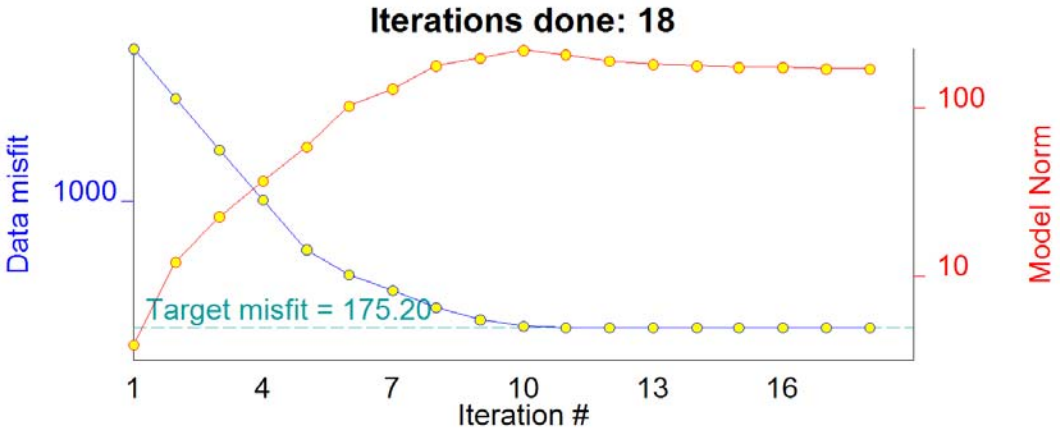

Eldorado: 1987 Lonestar; Line 6+00W : dipole-dipole : 146 data
Observed Apparent Chargeability
8.5
7.083
5.667
4.25
2.833
1.417
0
-800
-633
-467
-300
-133
33
200
X (m)
Predicted Data
8.5
7.083
5.667
4.25
2.833
1.417
0
-800
-633
-467
-300
-133
33
200
X (m)

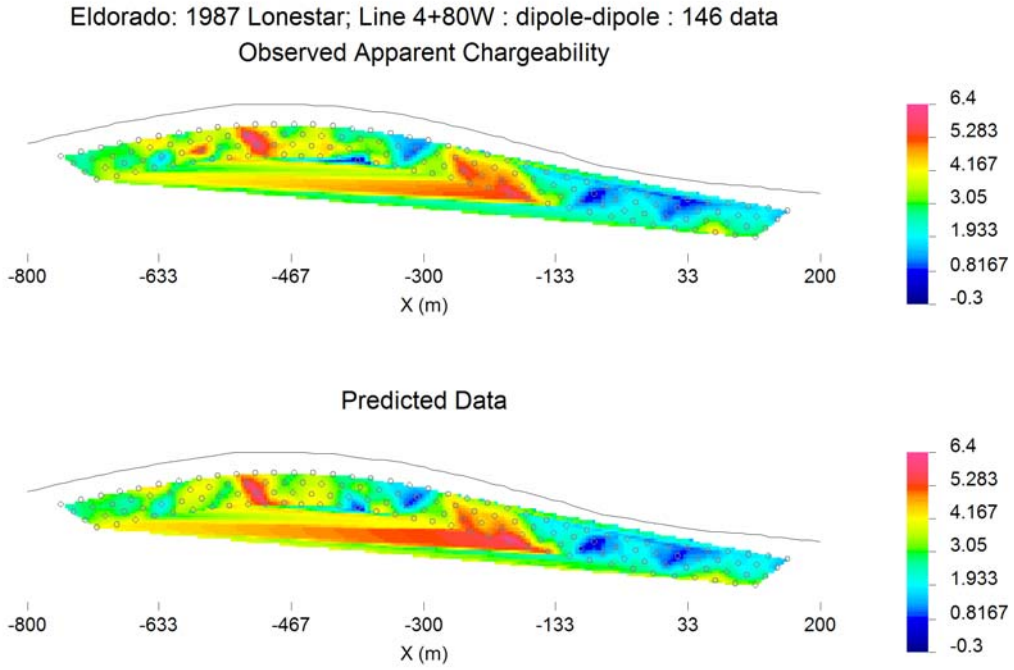

Chargeability Model
Depth (m)
0
80
160
241
10
8.333
6.667
5
3.333
1.667
0
-800
-633
-467
-300
-133
33
200
X (m)
Iterations done: 12
Data misfit
1000
Target misfit = 262.80
1000
100
10
Model Norm
1
3
5
7
9
11
Iteration #

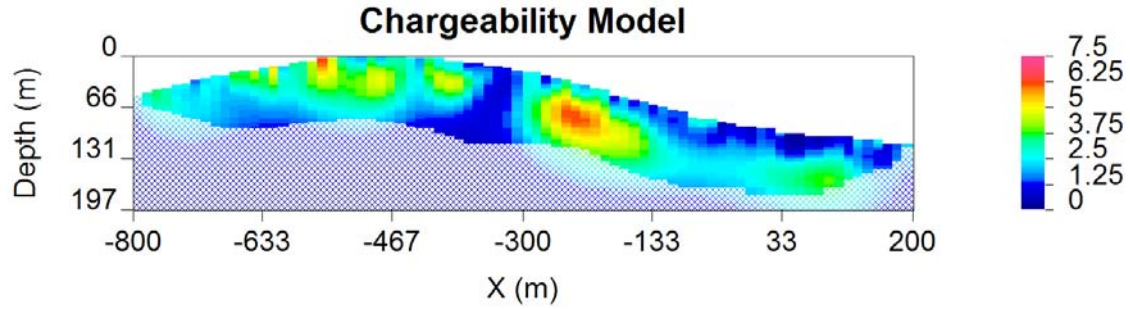

Eldorado: 1987 Lonestar; Line 4+80W : dipole-dipole : 146 data
Observed Apparent Resistivity
5915
3554
2136
1283
771.1
463.3
278.4
Ohm - m
-800
-633
-467
-300
-133
33
200
X (m)

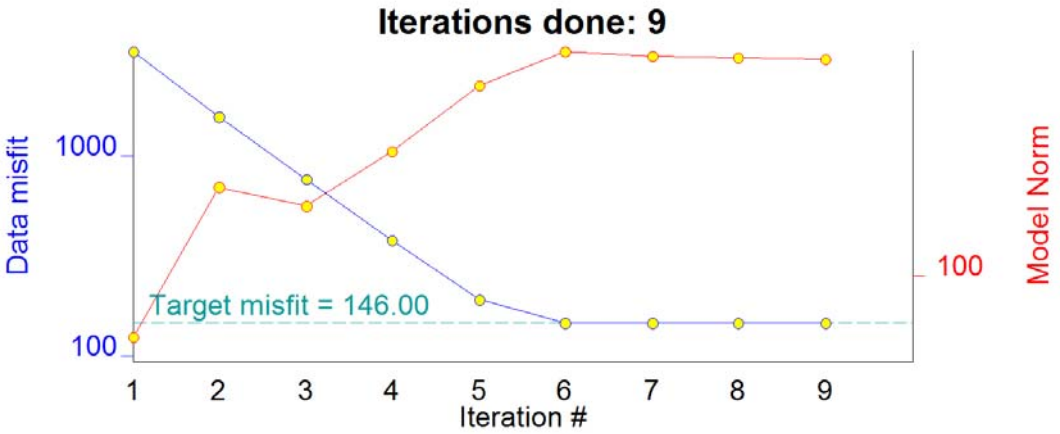

Predicted Data
5915
3554
2136
1283
771.1
463.3
278.4
-800
-633
-467
-300
-133
33
200
X (m)

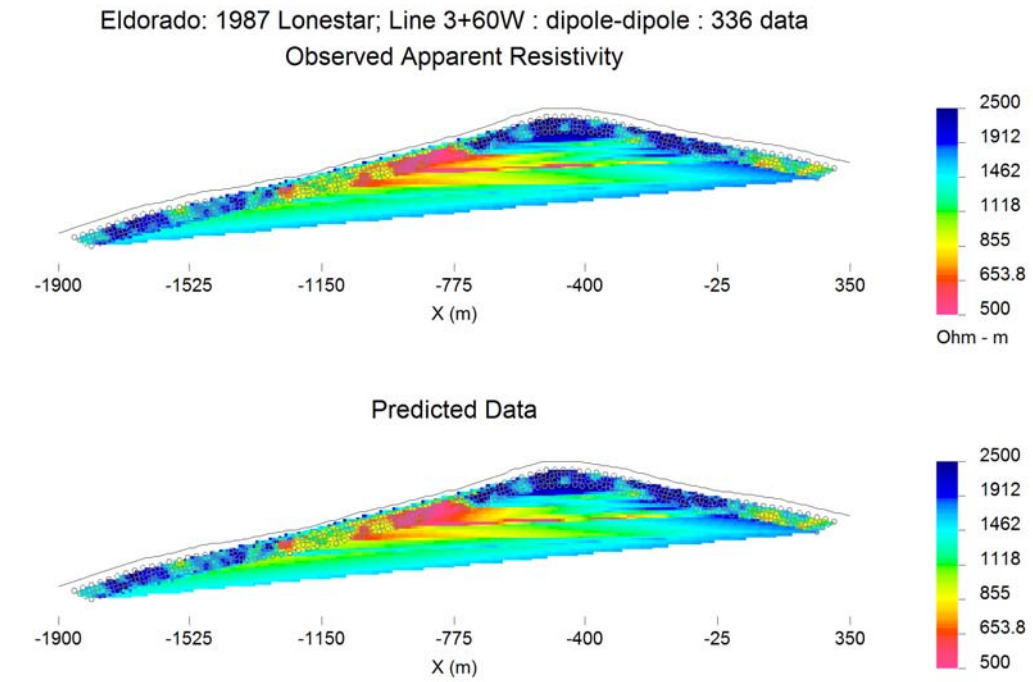

Resistivity Model
Depth (m)
0
63
125
188
1.3e+004
6341
3092
1508
735.7
358.8
175
Ohm - m
-800
-633
-467
-300
-133
33
200
X (m)

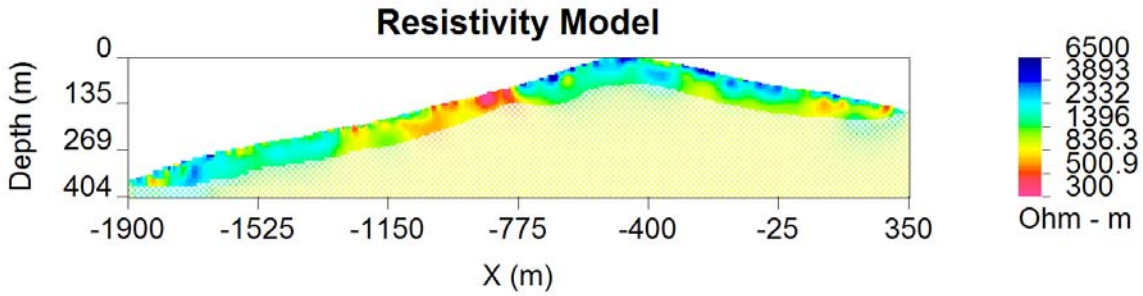

Iterations done: 18
Data misfit
1000
100
10
Model Norm
Target misfit = 175.20
1
4
7
10
13
16
Iteration #

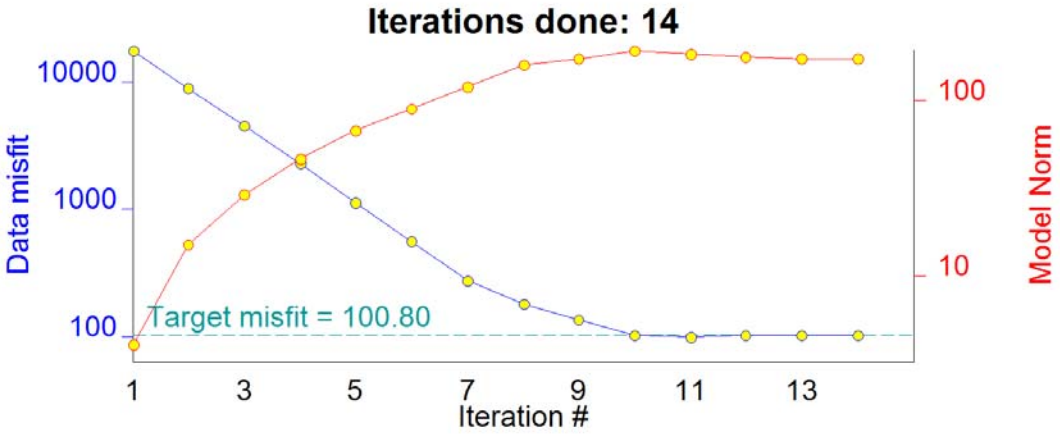

Eldorado: 1987 Lonestar; Line 4+80W : dipole-dipole : 146 data
Observed Apparent Chargeability
6.4
5.283
4.167
3.05
1.933
0.8167
-0.3
-800
-633
-467
-300
-133
33
200
X (m)
Predicted Data
6.4
5.283
4.167
3.05
1.933
0.8167
-0.3
-800
-633
-467
-300
-133
33
200
X (m)

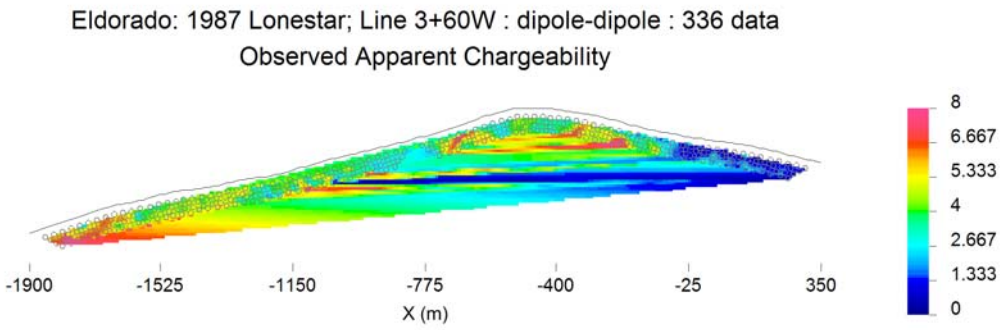

Chargeability Model
Depth (m)
0
66
131
197
-800
-633
-467
-300
-133
33
200
X (m)
7.5
6.25
5
3.75
2.5
1.25
0

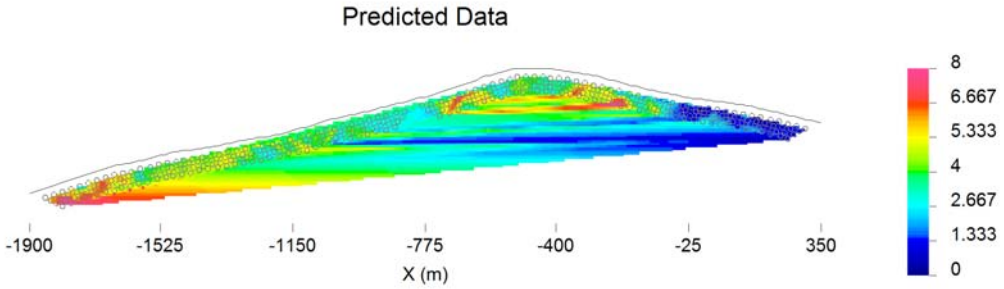

Iterations done: 9
Data misfit
1000
100
Target misfit = 146.00
100
Model Norm
1
2
3
4
5
6
7
8
9
Iteration #

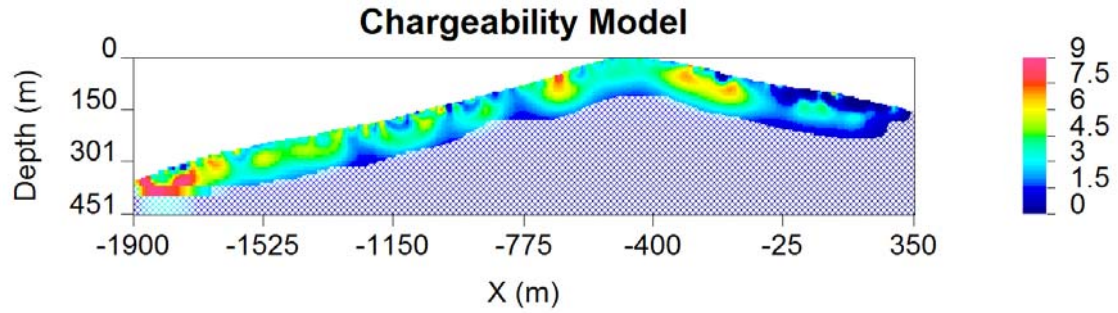

Eldorado: 1987 Lonestar; Line 3+60W : dipole-dipole : 336 data
Observed Apparent Resistivity
2500
1912
1462
1118
855
653.8
500
Ohm - m
-1900
-1525
-1150
-775
-400
-25
350
X (m)
Predicted Data
2500
1912
1462
1118
855
653.8
500
-1900
-1525
-1150
-775
-400
-25
350
X (m)

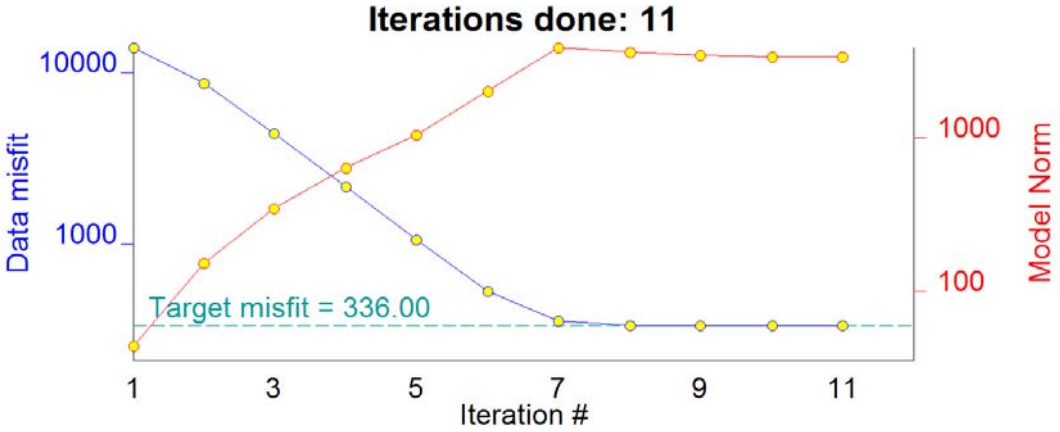

Resistivity Model
Depth (m)
0
135
269
404
-1900
-1525
-1150
-775
-400
-25
350
X (m)
6500
3893
2332
1396
836.3
500.9
300
Ohm - m

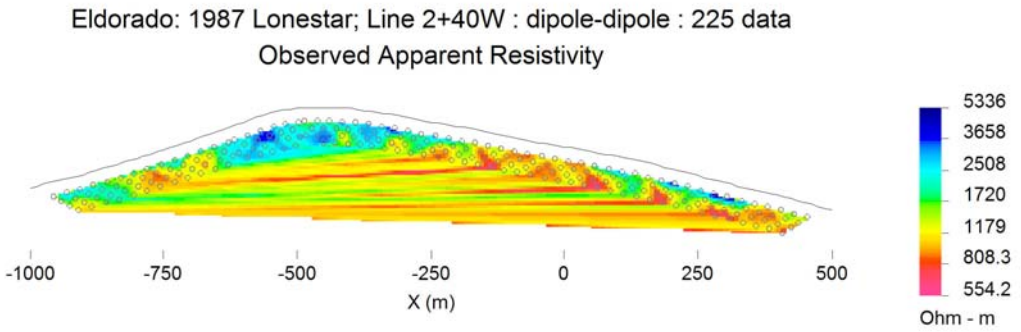

Iterations done: 14
Data misfit
10000
1000
100
Target misfit = 100.80
100
10
Model Norm
1
3
5
7
9
11
13
Iteration #

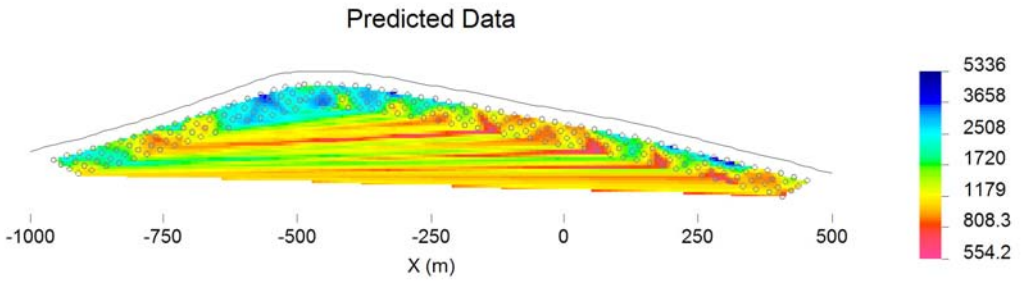

Eldorado: 1987 Lonestar; Line 3+60W : dipole-dipole : 336 data
Observed Apparent Chargeability
8
6.667
5.333
4
2.667
1.333
0
-1900
-1525
-1150
-775
-400
-25
350
X (m)

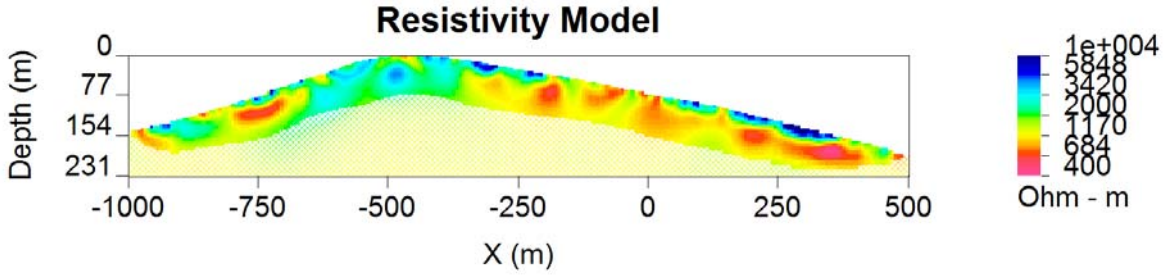

Predicted Data
8
6.667
5.333
4
2.667
1.333
0
-1900
-1525
-1150
-775
-400
-25
350
X (m)

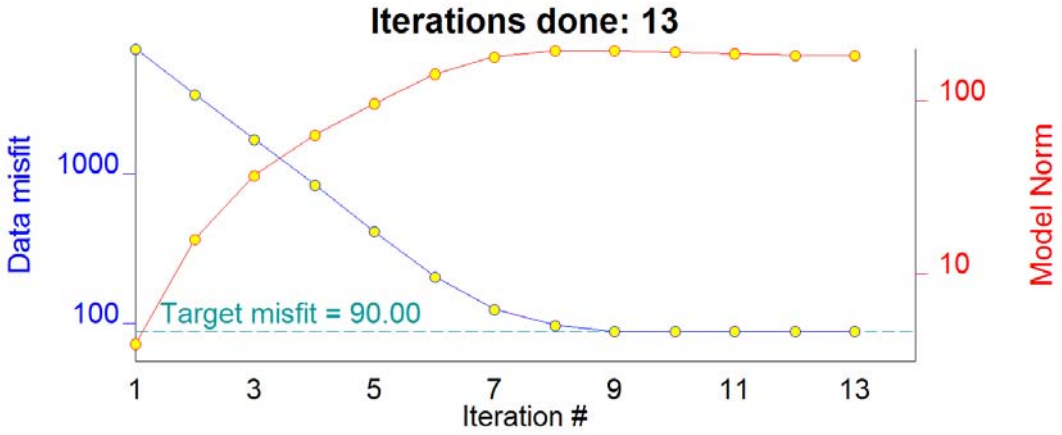

Chargeability Model
Depth (m)
0
150
301
451
-1900
-1525
-1150
-775
-400
-25
350
X (m)
9
7.5
6
4.5
3
1.5
0

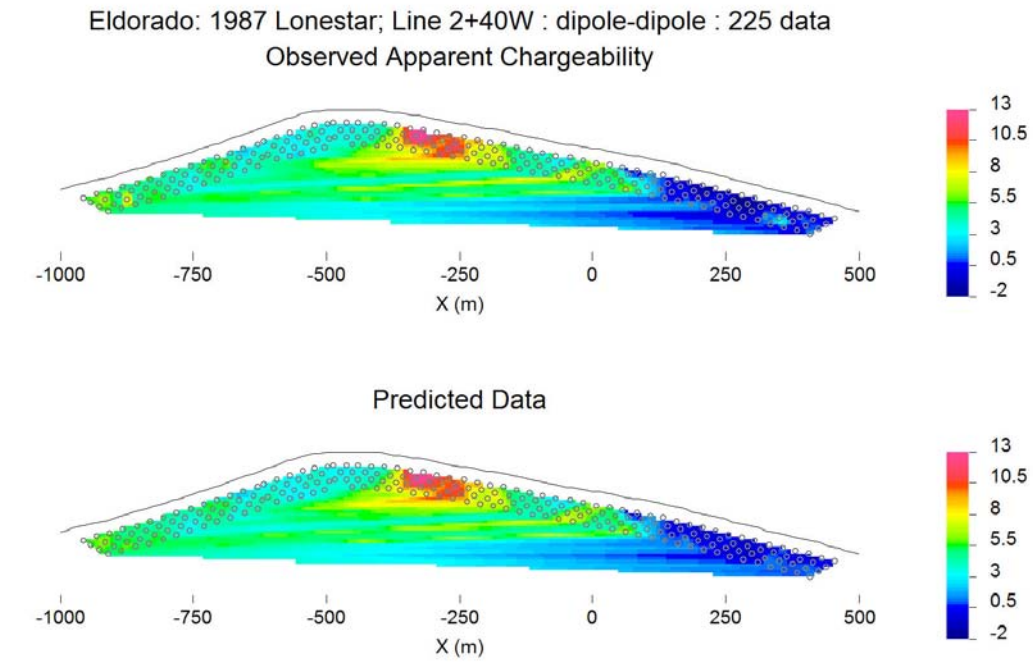

Iterations done: 11
Data misfit
10000
1000
Target misfit = 336.00
1000
100
Model Norm
1
3
5
7
9
11
Iteration #

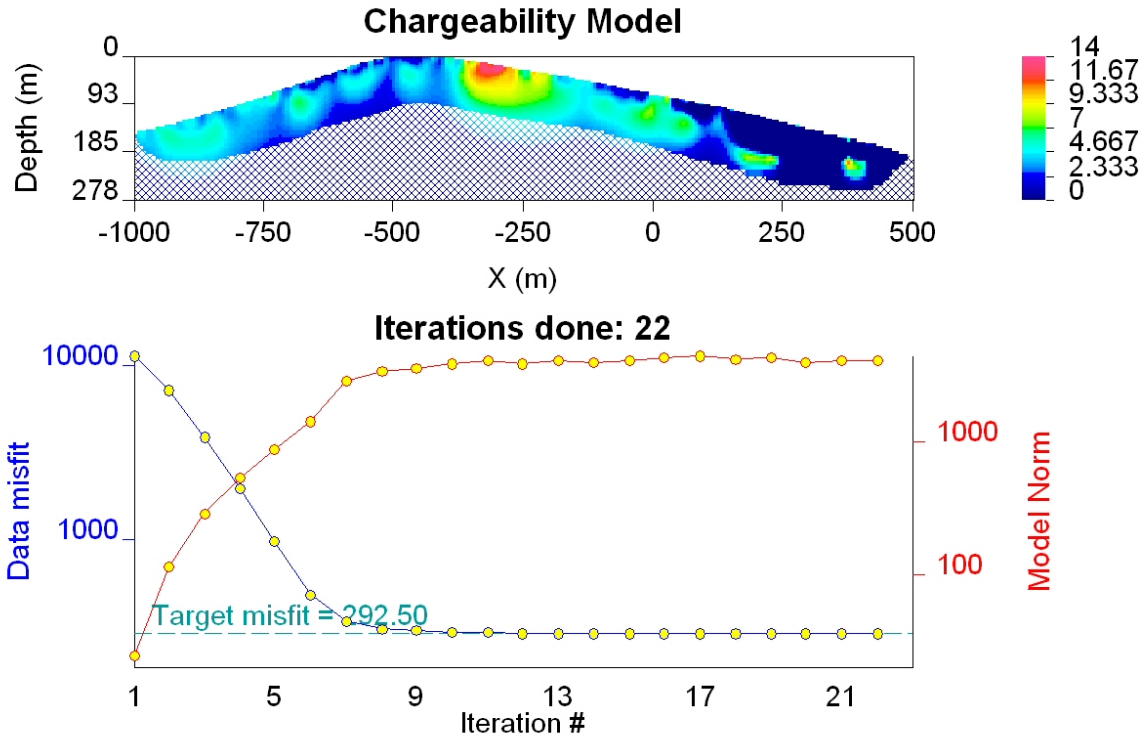

Eldorado: 1987 Lonestar; Line 2+40W : dipole-dipole : 225 data
Observed Apparent Resistivity
5336
3658
2508
1720
1179
808.3
554.2
Ohm - m
-1000
-750
-500
-250
0
250
500
X (m)

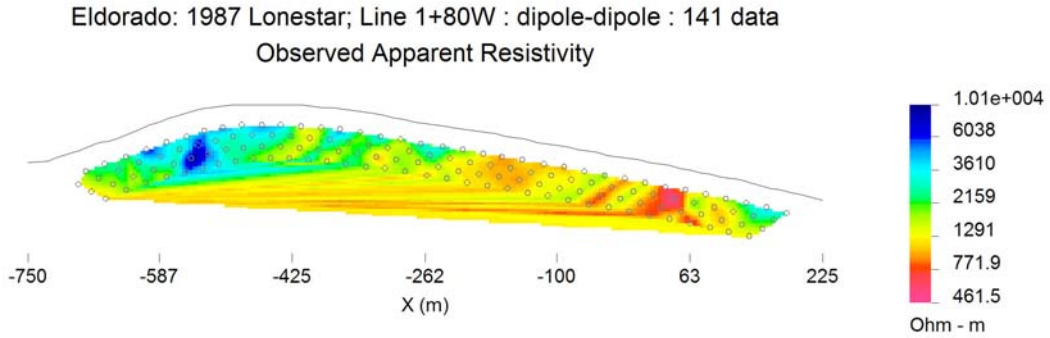

Predicted Data
5336
3658
2508
1720
1179
808.3
554.2
-1000
-750
-500
-250
0
250
500
X (m)

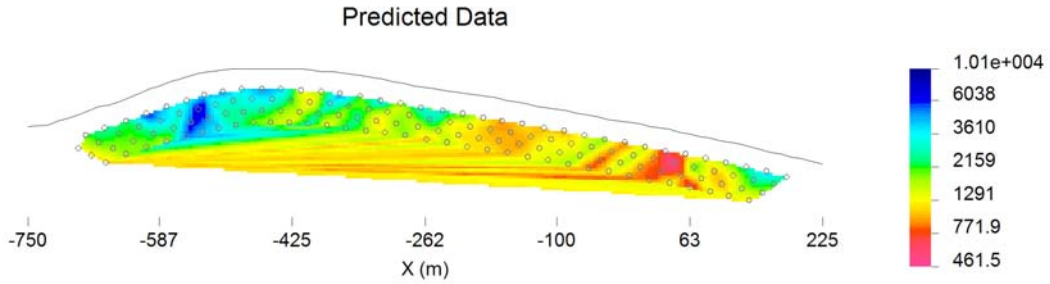

Resistivity Model
Depth (m)
0
77
154
231
1e+004
5848
3420
2000
1170
684
400
Ohm - m
-1000
-750
-500
-250
0
250
500
X (m)

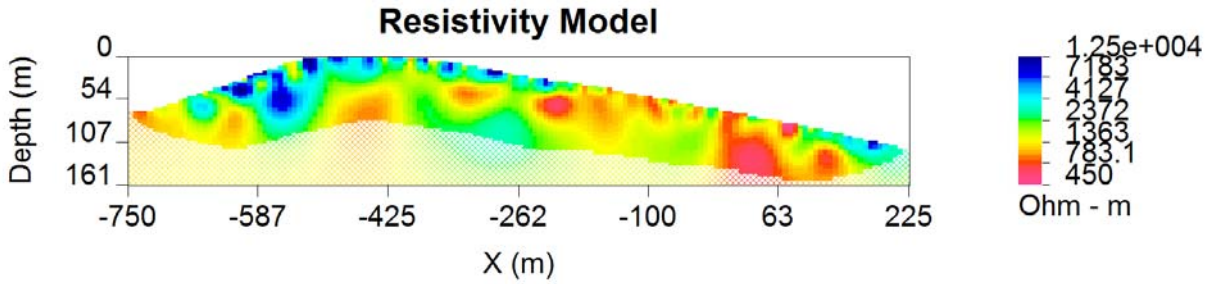

Iterations done: 13
Data misfit
1000
100
Target misfit = 90.00
100
10
Model Norm
1
3
5
7
9
11
13
Iteration #

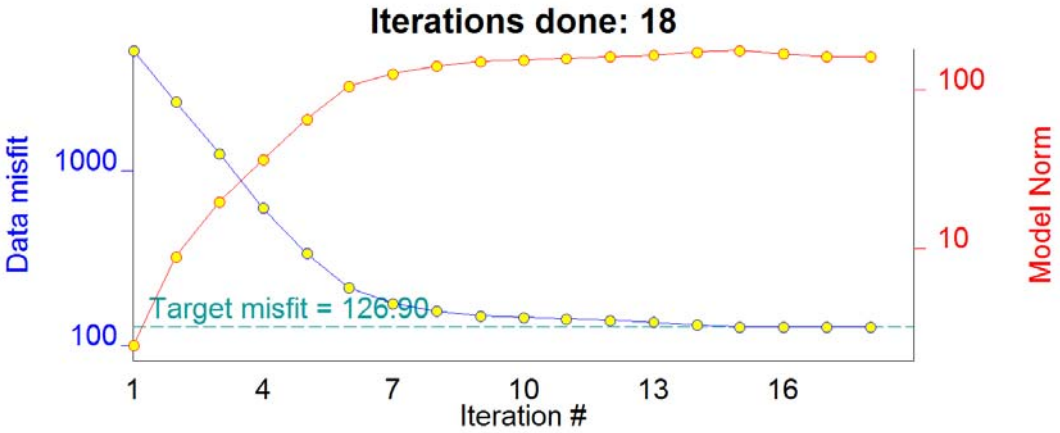

Eldorado: 1987 Lonestar; Line 2+40W : dipole-dipole : 225 data
Observed Apparent Chargeability
13
10.5
8
5.5
3
0.5
-2
-1000
-750
-500
-250
0
250
500
X (m)
Predicted Data
13
10.5
8
5.5
3
0.5
-2
-1000
-750
-500
-250
0
250
500
X (m)

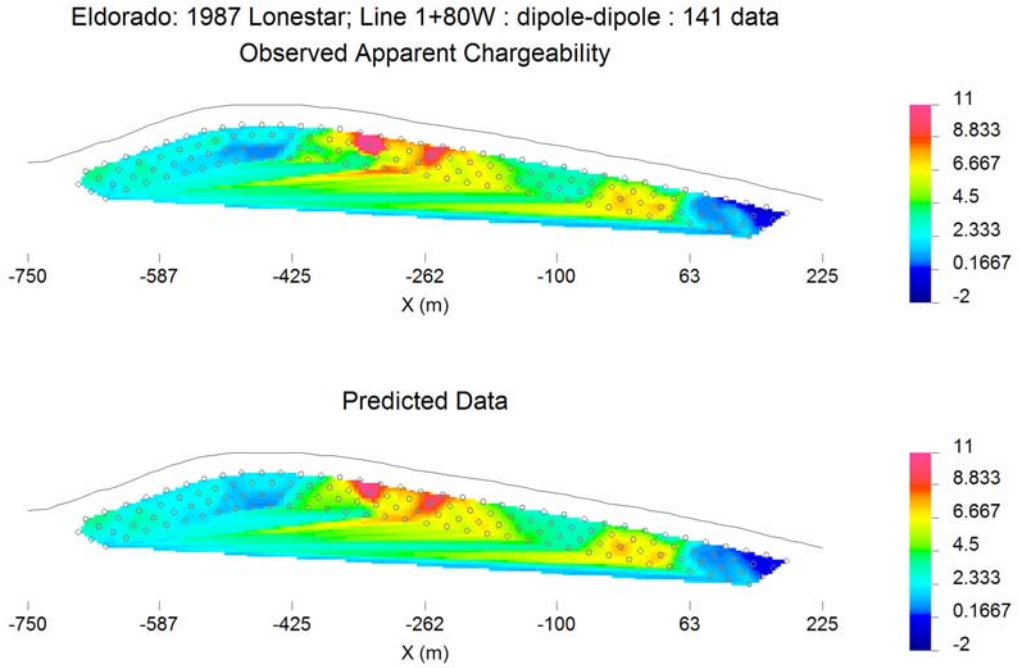

Chargeability Model
Depth (m)
0
93
185
278
-1000
-750
-500
-250
0
250
500
X (m)
14
11.67
9.333
7
4.667
2.333
0
Iterations done: 22
Data misfit
10000
1000
Target misfit = 292.50
1000
100
Model Norm
1
5
9
13
17
21
Iteration #

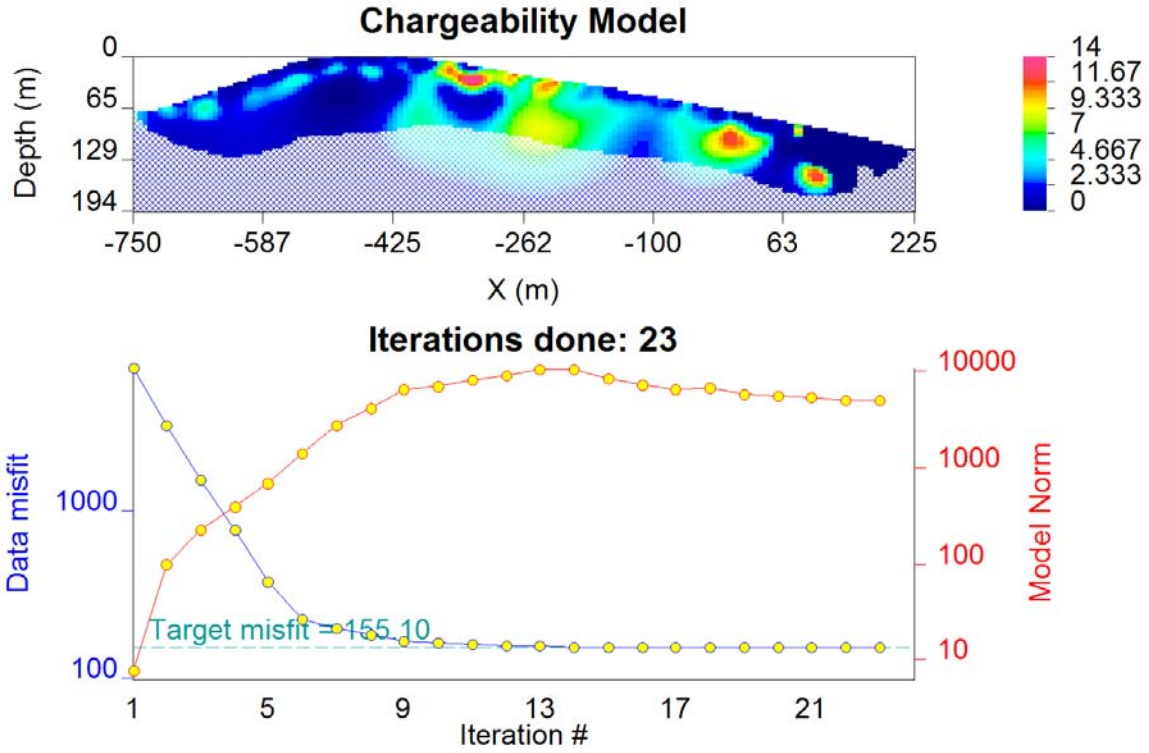

Eldorado: 1987 Lonestar; Line 1+80W : dipole-dipole : 141 data
Observed Apparent Resistivity
1.01e+004
6038
3610
2159
1291
771.9
461.5
Ohm - m
-750
-587
-425
-262
-100
63
225
X (m)

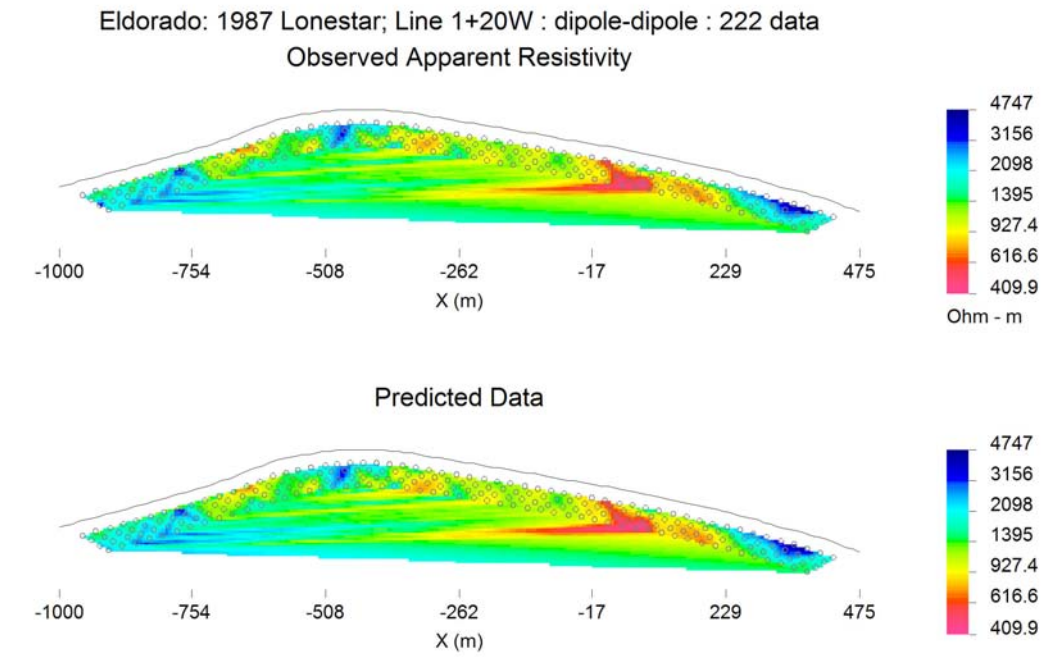

Predicted Data
1.01e+004
6038
3610
2159
1291
771.9
461.5
-750
-587
-425
-262
-100
63
225
X (m)

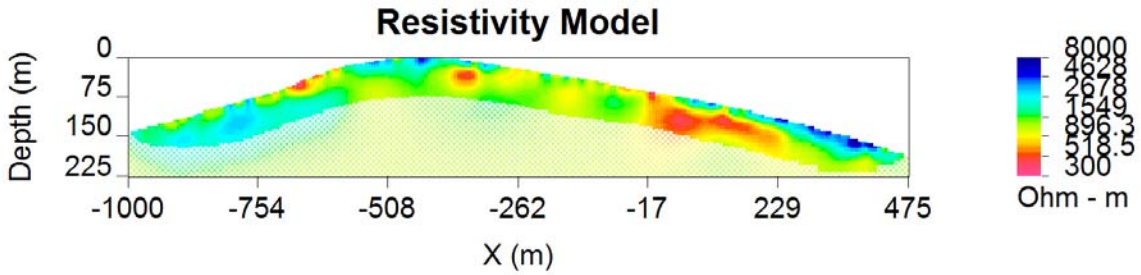

Resistivity Model
Depth (m)
0
54
107
161
1.25e+004
7183
4127
2372
1363
783.1
450
Ohm - m
-750
-587
-425
-262
-100
63
225
X (m)

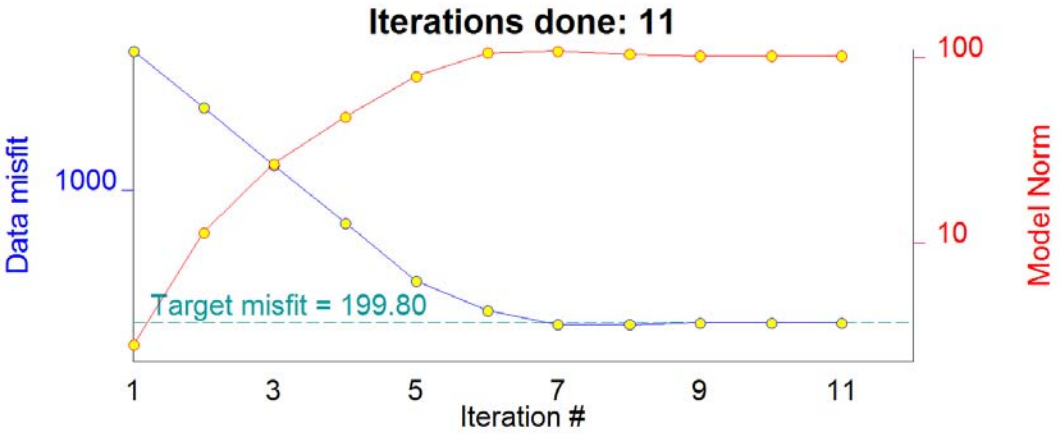

Iterations done: 18
Data misfit
1000
100
Target misfit = 126.90
100
10
Model Norm
1
4
7
10
13
16
Iteration #

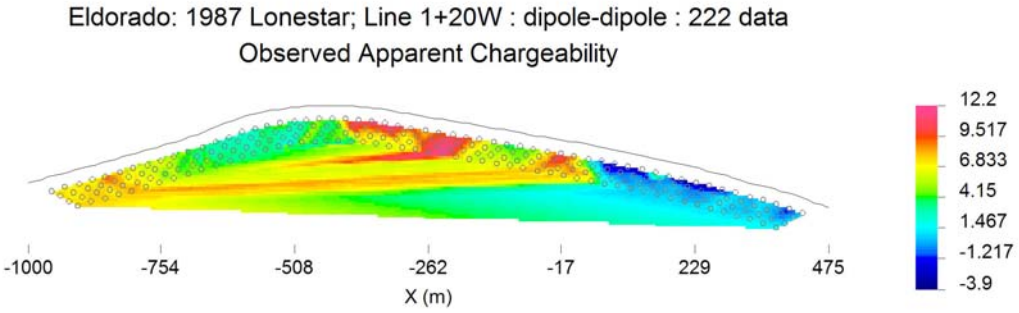

Eldorado: 1987 Lonestar; Line 1+80W : dipole-dipole : 141 data
Observed Apparent Chargeability
11
8.833
6.667
4.5
2.333
0.1667
-2
-750
-587
-425
-262
-100
63
225
X (m)
Predicted Data
11
8.833
6.667
4.5
2.333
0.1667
-2
-750
-587
-425
-262
-100
63
225
X (m)

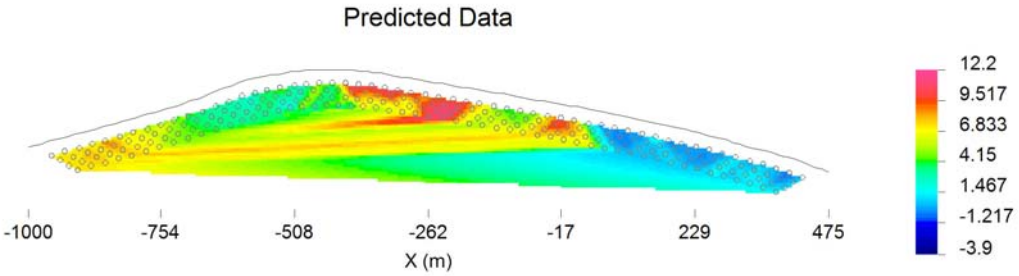

Chargeability Model
Depth (m)
0
65
129
194
-750
-587
-425
-262
-100
63
225
X (m)
14
11.67
9.333
7
4.667
2.333
0
Iterations done: 23
Data misfit
1000
100
Target misfit = 155.10
1
5
9
13
17
21
Iteration #
10000
1000
100
10
Model Norm

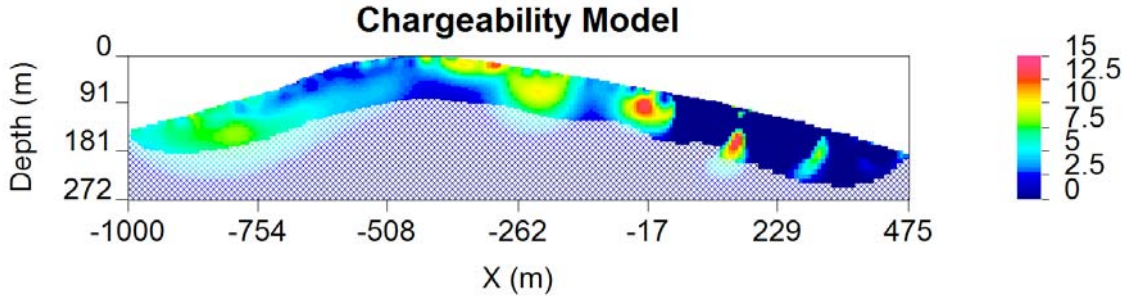

Eldorado: 1987 Lonestar; Line 1+20W : dipole-dipole : 222 data
Observed Apparent Resistivity
4747
3156
2098
1395
927.4
616.6
409.9
Ohm - m
-1000
-754
-508
-262
-17
229
475
X (m)
Predicted Data
4747
3156
2098
1395
927.4
616.6
409.9
-1000
-754
-508
-262
-17
229
475
X (m)

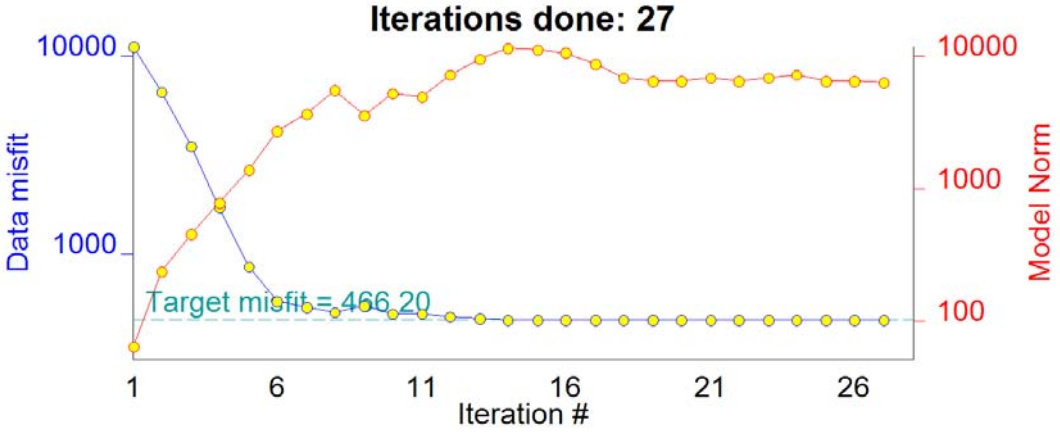

Resistivity Model
Depth (m)
0
75
150
225
-1000
-754
-508
-262
-17
229
475
X (m)
8000
4628
2678
1549
896.3
518.5
300
Ohm - m

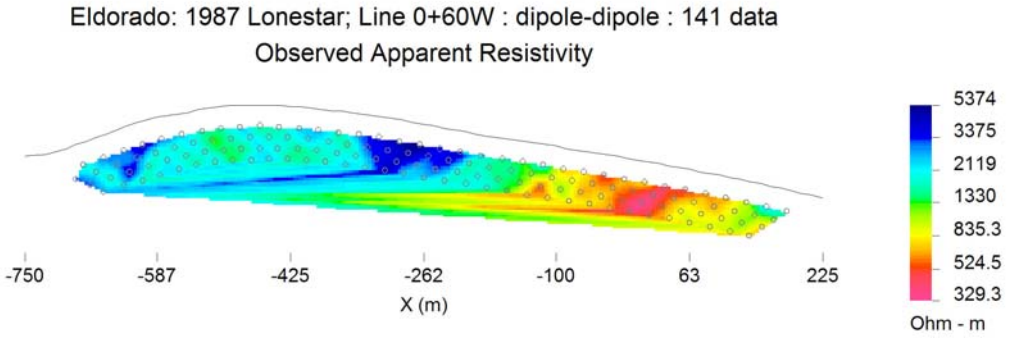

Iterations done: 11
Data misfit
1000
Target misfit = 199.80
100
10
Model Norm
1
3
5
7
9
11
Iteration #

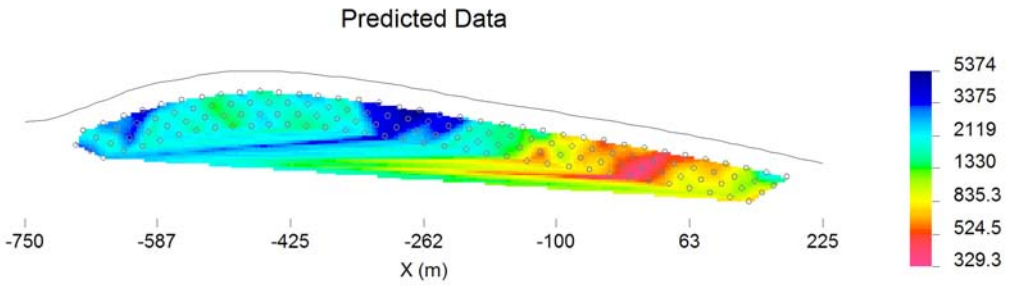

Eldorado: 1987 Lonestar; Line 1+20W : dipole-dipole : 222 data
Observed Apparent Chargeability
12.2
9.517
6.833
4.15
1.467
-1.217
-3.9
-1000
-754
-508
-262
-17
229
475
X (m)

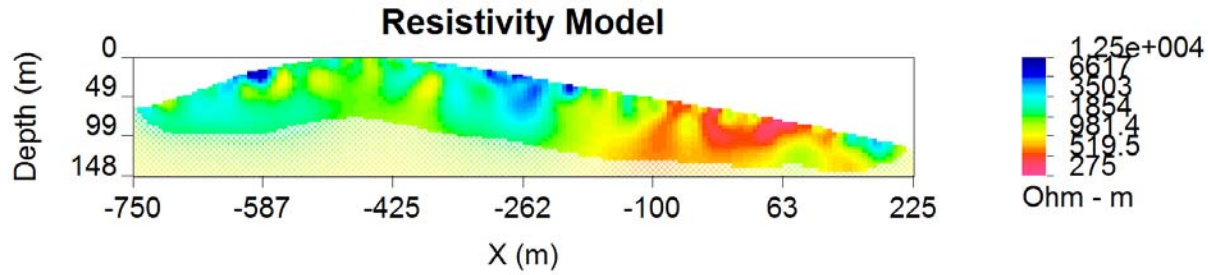

Predicted Data
12.2
9.517
6.833
4.15
1.467
-1.217
-3.9
-1000
-754
-508
-262
-17
229
475
X (m)

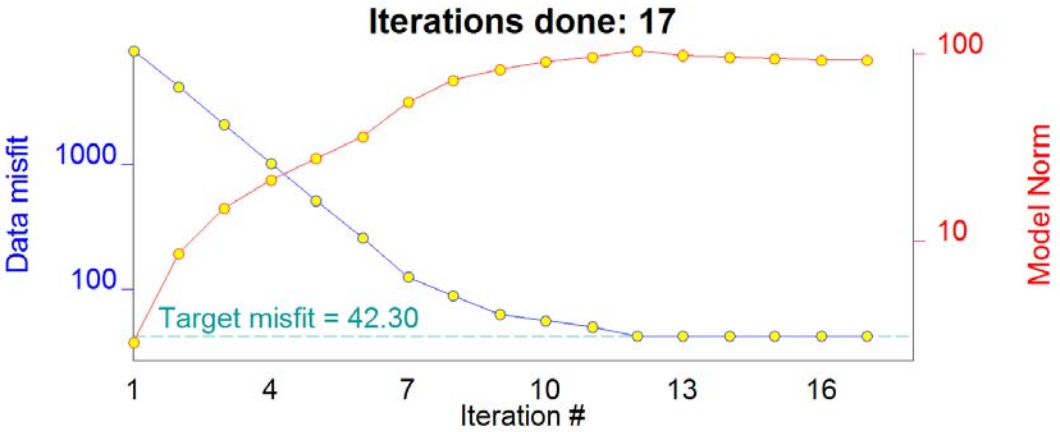

Chargeability Model
Depth (m)
0
91
181
272
15
12.5
10
7.5
5
2.5
0
-1000
-754
-508
-262
-17
229
475
X (m)

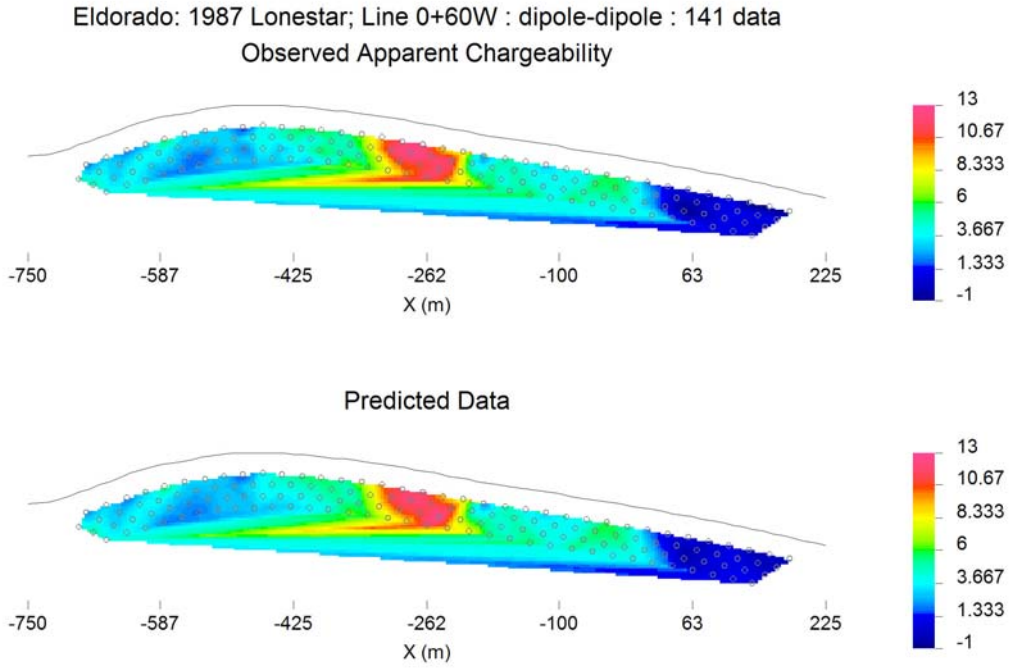

Iterations done: 27
Data misfit
10000
1000
Target misfit = 466.20
Model Norm
10000
1000
100
1
6
11
16
21
26
Iteration #

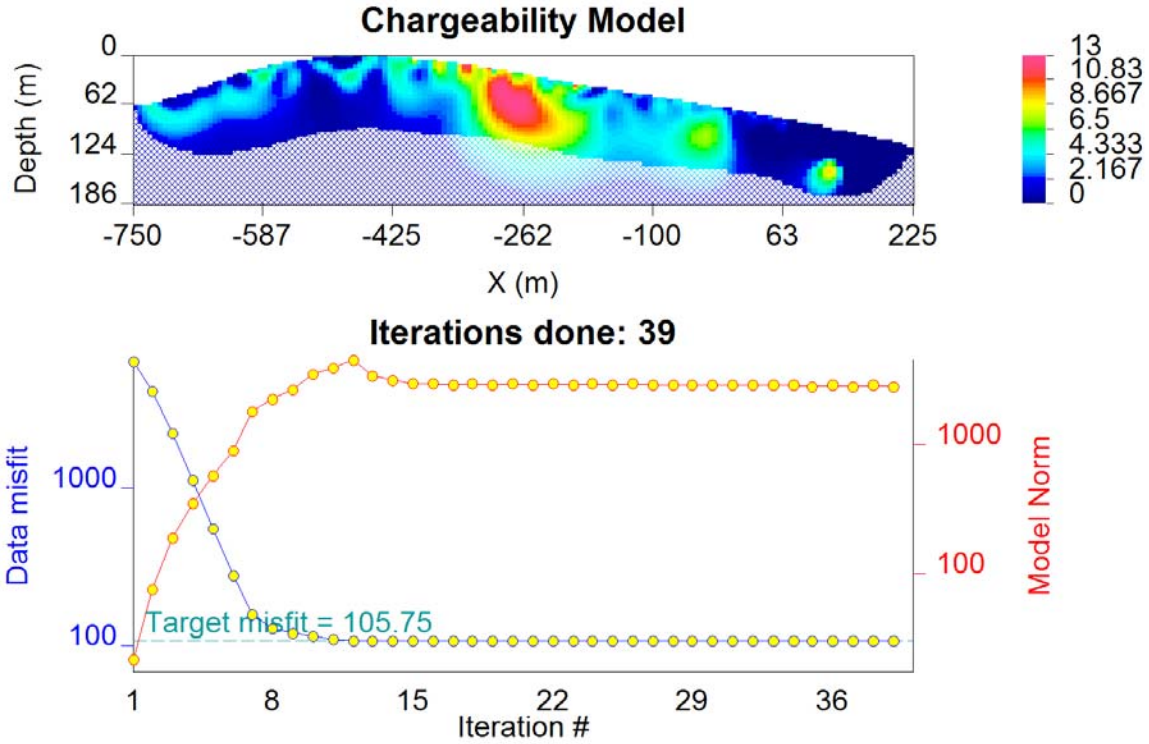

Eldorado: 1987 Lonestar; Line 0+60W : dipole-dipole : 141 data
Observed Apparent Resistivity
5374
3375
2119
1330
835.3
524.5
329.3
Ohm - m
-750
-587
-425
-262
-100
63
225
X (m)

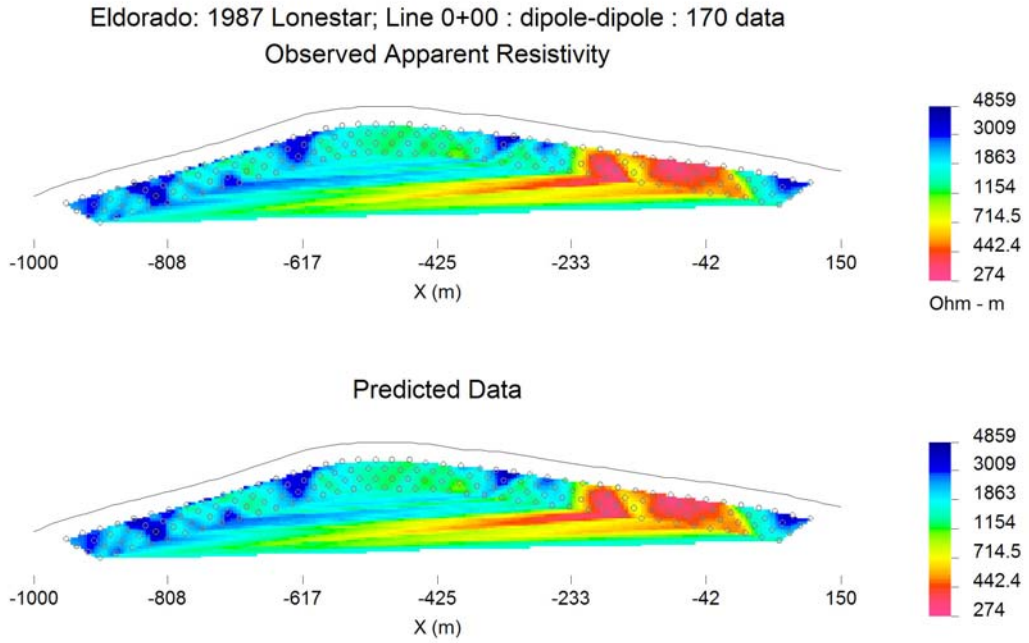

Predicted Data
5374
3375
2119
1330
835.3
524.5
329.3
-750
-587
-425
-262
-100
63
225
X (m)

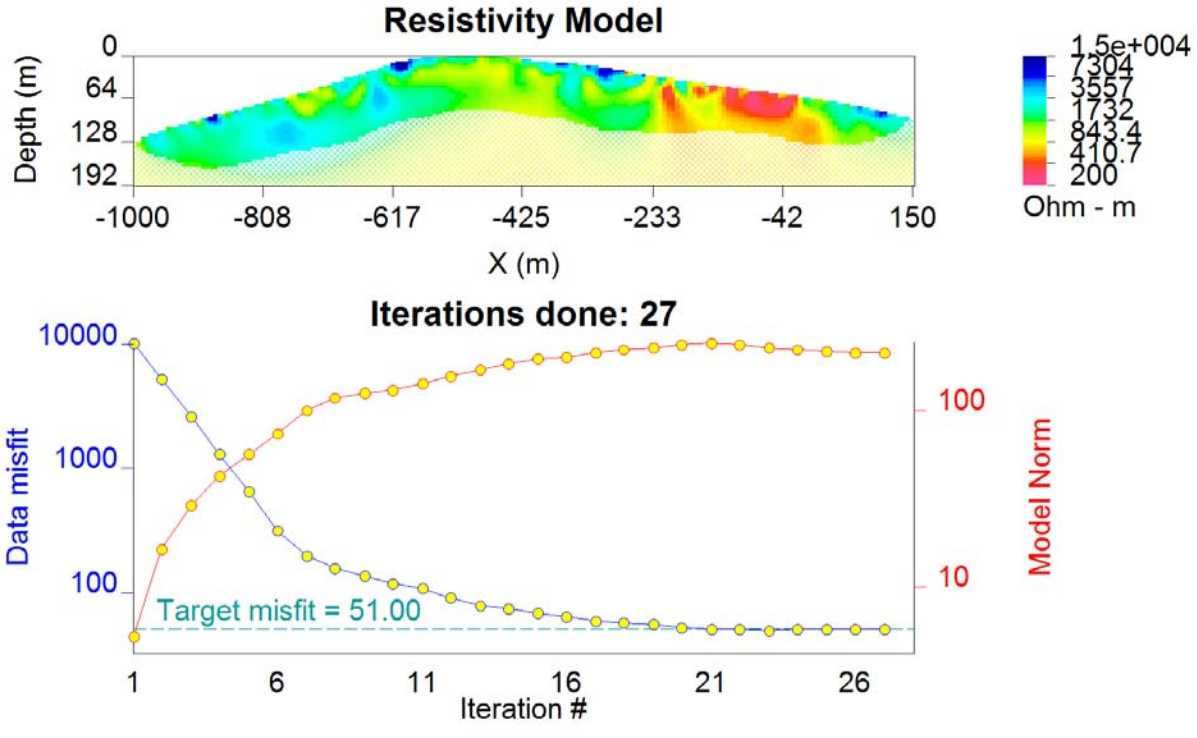

Resistivity Model
Depth (m)
0
49
99
148
-750
-587
-425
-262
-100
63
225
X (m)
1.25e+004
6617
3503
1854
981.4
519.5
275
Ohm - m

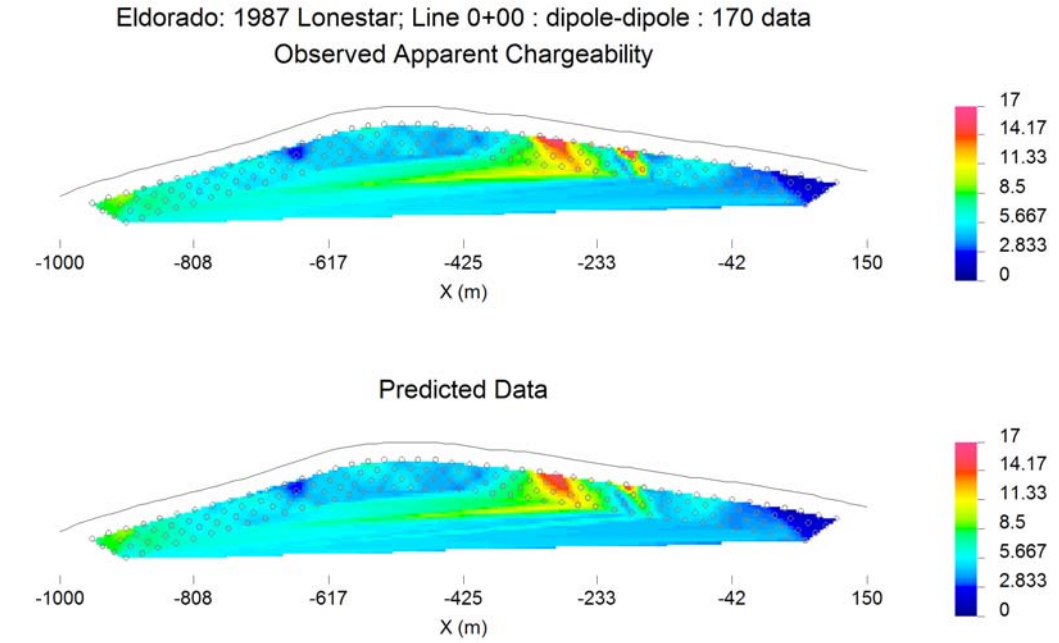

Iterations done: 17
Data misfit
1000
100
100
10
Model Norm
Target misfit = 42.30
1
4
7
10
13
16
Iteration #

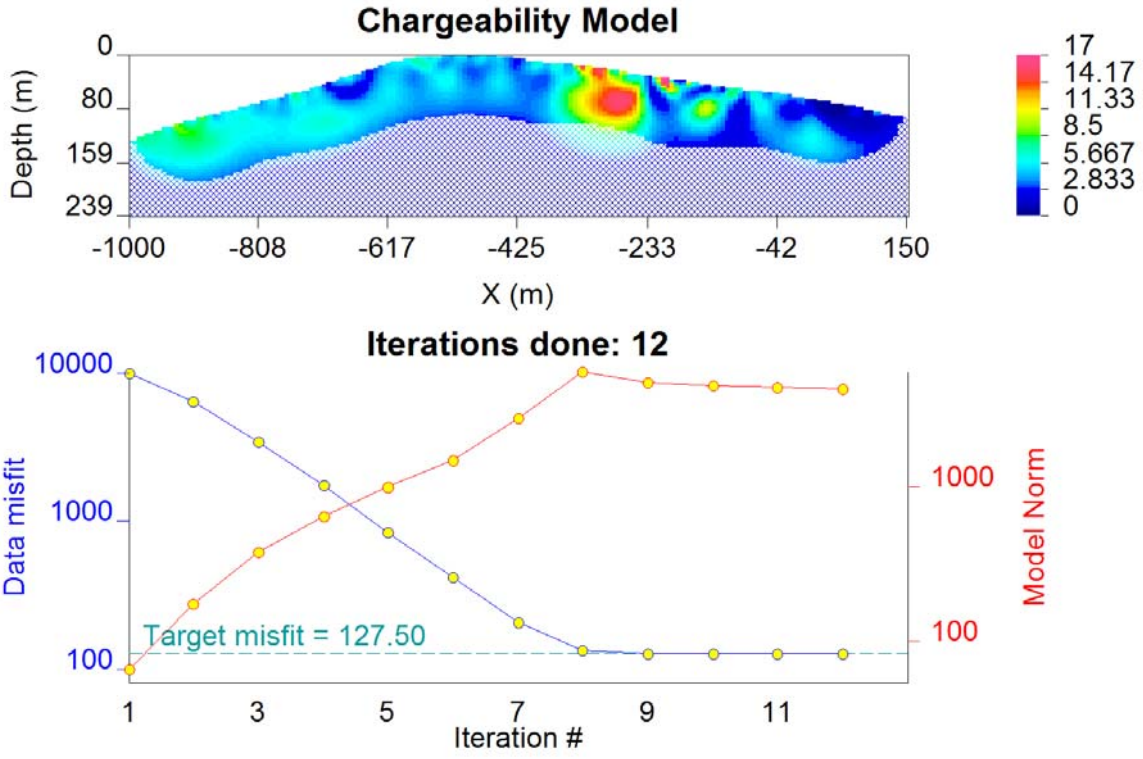

Eldorado: 1987 Lonestar; Line 0+60W : dipole-dipole : 141 data
Observed Apparent Chargeability
13
10.67
8.333
6
3.667
1.333
-1
-750
-587
-425
-262
-100
63
225
X (m)
Predicted Data
13
10.67
8.333
6
3.667
1.333
-1
-750
-587
-425
-262
-100
63
225
X (m)

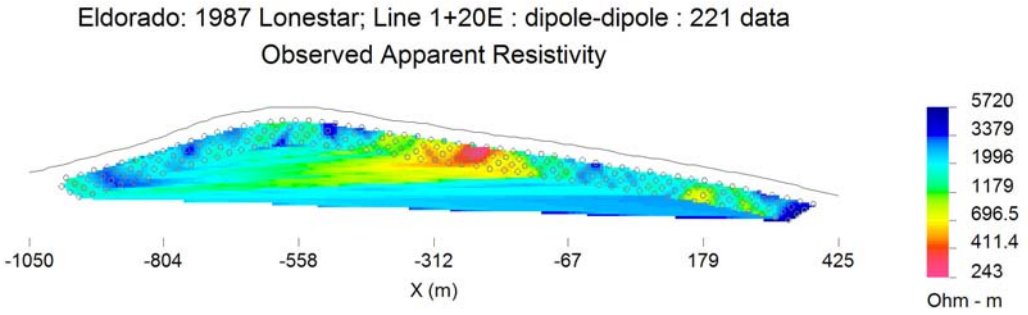

Chargeability Model
Depth (m)
0
62
124
186
13
10.83
8.667
6.5
4.333
2.167
0
-750
-587
-425
-262
-100
63
225
X (m)
Iterations done: 39
Data misfit
1000
100
Target misfit = 105.75
1000
100
Model Norm
1
8
15
22
29
36
Iteration #

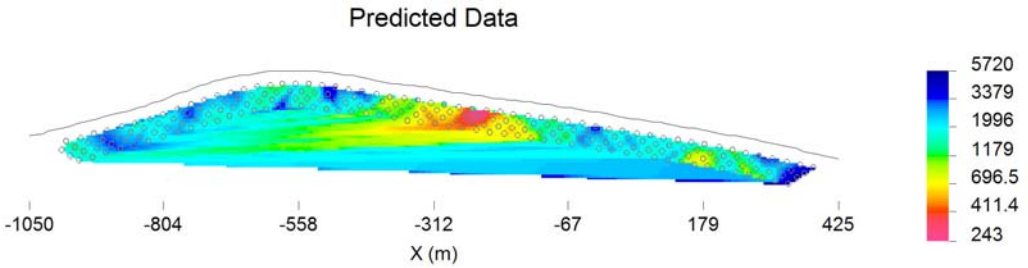

Eldorado: 1987 Lonestar; Line 0+00 : dipole-dipole : 170 data
Observed Apparent Resistivity
4859
3009
1863
1154
714.5
442.4
274
Ohm - m
-1000
-808
-617
-425
-233
-42
150
X (m)
Predicted Data
4859
3009
1863
1154
714.5
442.4
274
-1000
-808
-617
-425
-233
-42
150
X (m)

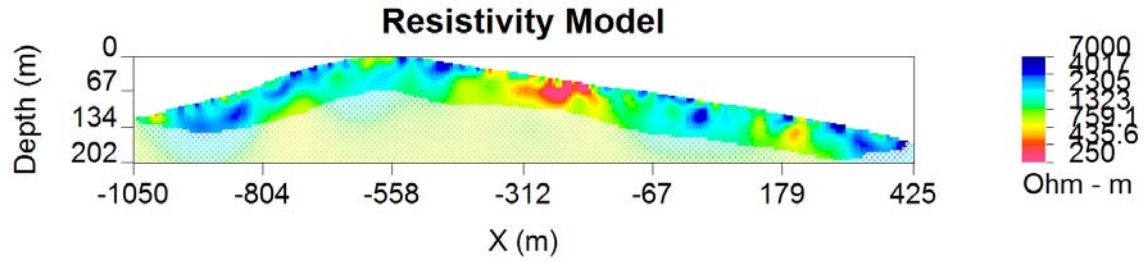

Resistivity Model
Depth (m)
0
64
128
192
-1000
-808
-617
-425
-233
-42
150
X (m)
1.5e+004
7304
3557
1732
843.4
410.7
200
Ohm - m
Iterations done: 27
Data misfit
10000
1000
100
Target misfit = 51.00
100
10
Model Norm
1
6
11
16
21
26
Iteration #

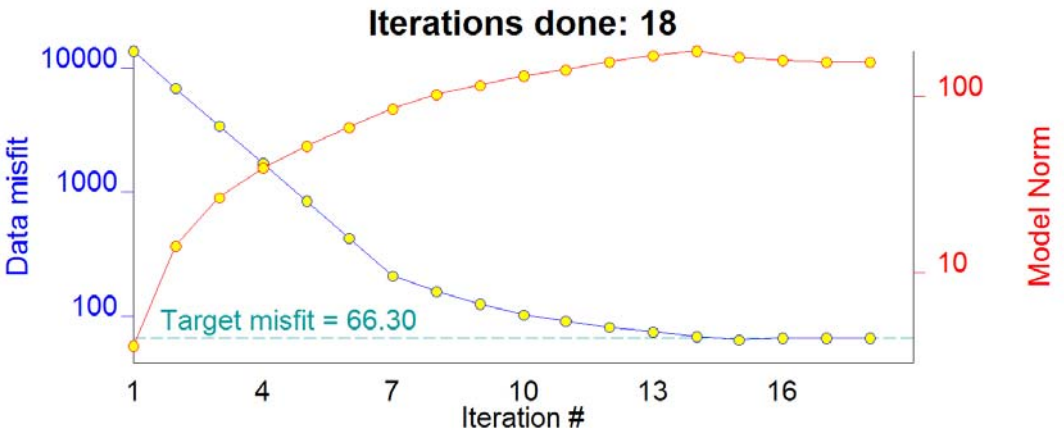

Eldorado: 1987 Lonestar; Line 0+00 : dipole-dipole : 170 data
Observed Apparent Chargeability
17
14.17
11.33
8.5
5.667
2.833
0
-1000
-808
-617
-425
-233
-42
150
X (m)
Predicted Data
17
14.17
11.33
8.5
5.667
2.833
0
-1000
-808
-617
-425
-233
-42
150
X (m)

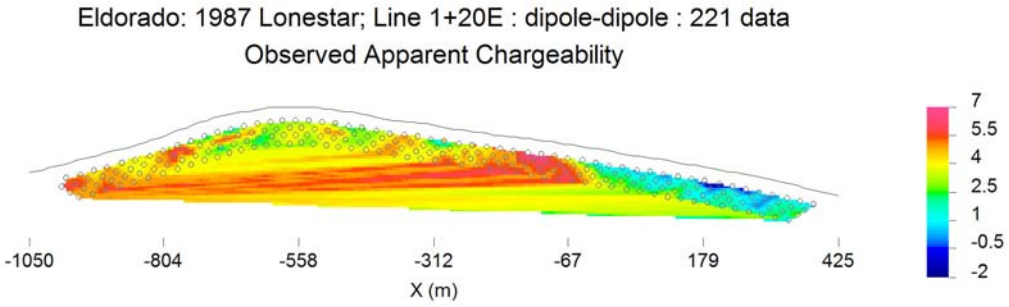

Chargeability Model
Depth (m)
0
80
159
239
-1000
-808
-617
-425
-233
-42
150
X (m)
17
14.17
11.33
8.5
5.667
2.833
0
Iterations done: 12
Data misfit
10000
1000
100
Target misfit = 127.50
1
3
5
7
9
11
Iteration #
1000
100
Model Norm

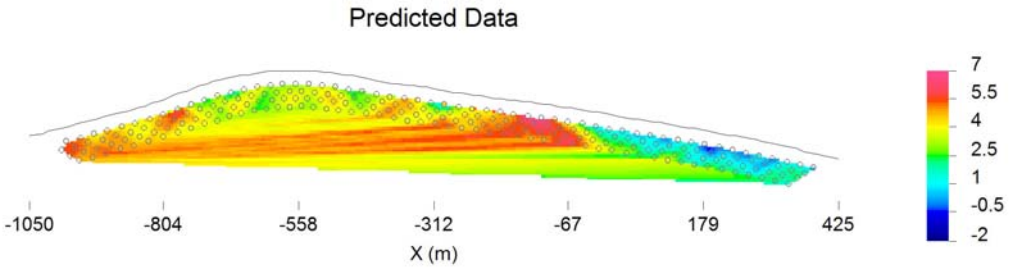

Eldorado: 1987 Lonestar; Line 1+20E : dipole-dipole : 221 data
Observed Apparent Resistivity
5720
3379
1996
1179
696.5
411.4
243
Ohm - m
-1050
-804
-558
-312
-67
179
425
X (m)

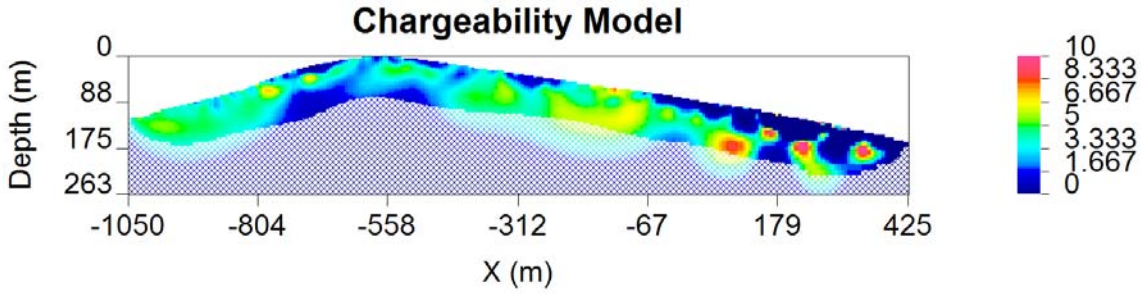

Predicted Data
5720
3379
1996
1179
696.5
411.4
243
-1050
-804
-558
-312
-67
179
425
X (m)

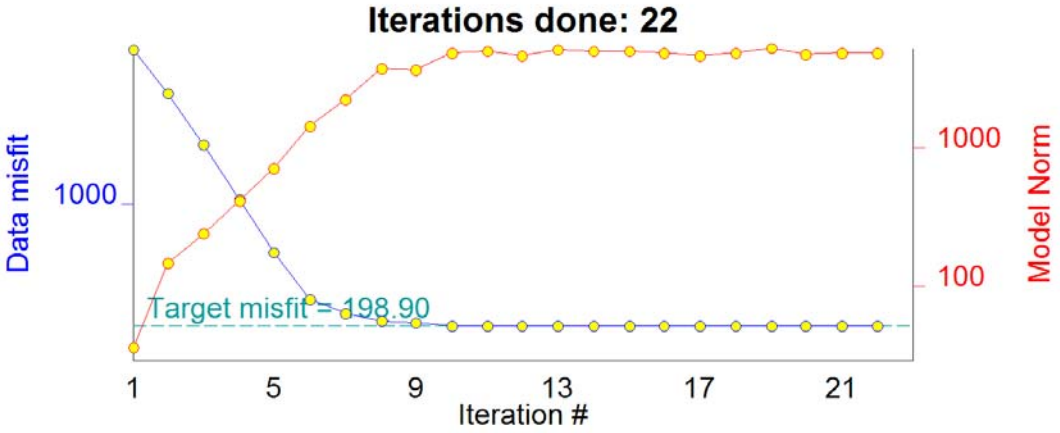

Resistivity Model
Depth (m)
0
67
134
202
-1050
-804
-558
-312
-67
179
425
X (m)
7000
4017
2305
1323
759.1
435.6
250
Ohm - m

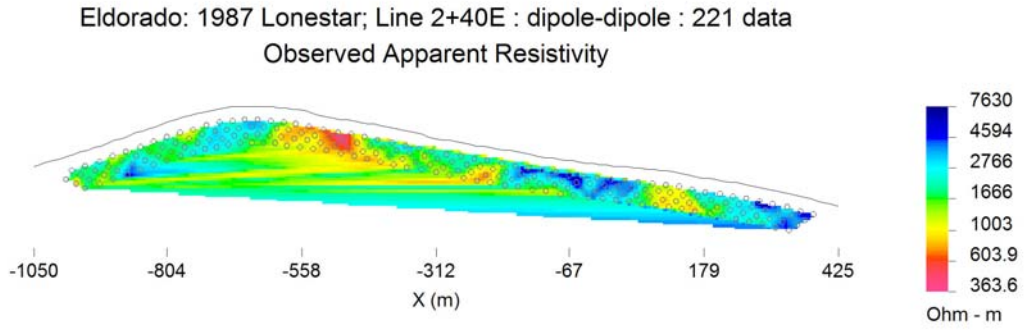

Iterations done: 18
Data misfit
10000
1000
100
Target misfit = 66.30
100
10
Model Norm
1
4
7
10
13
16
Iteration #

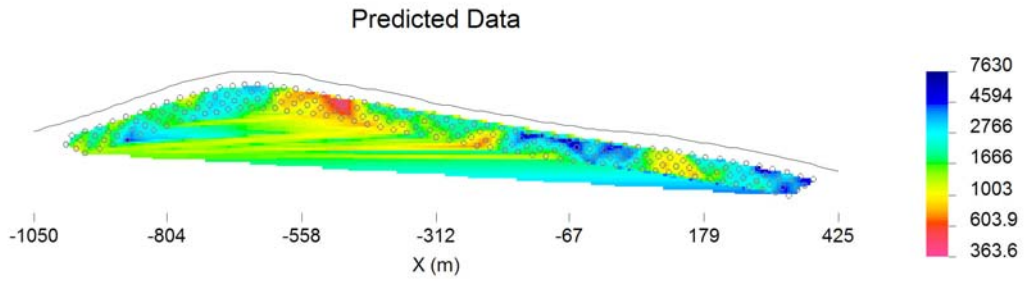

Eldorado: 1987 Lonestar; Line 1+20E : dipole-dipole : 221 data
Observed Apparent Chargeability
7
5.5
4
2.5
1
-0.5
-2
-1050
-804
-558
-312
-67
179
425
X (m)

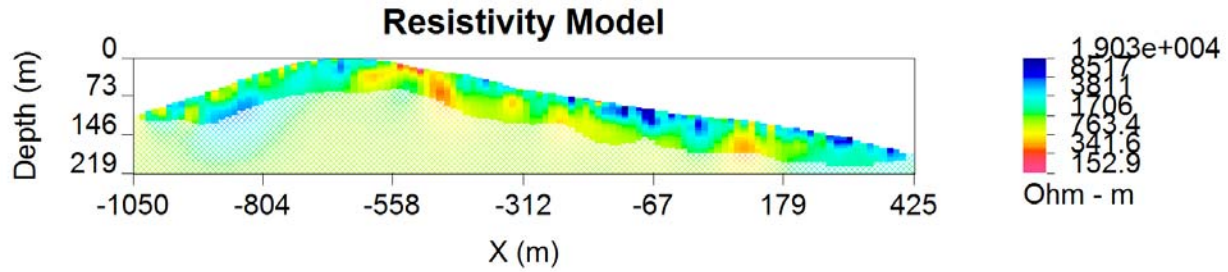

Predicted Data
7
5.5
4
2.5
1
-0.5
-2
-1050
-804
-558
-312
-67
179
425
X (m)

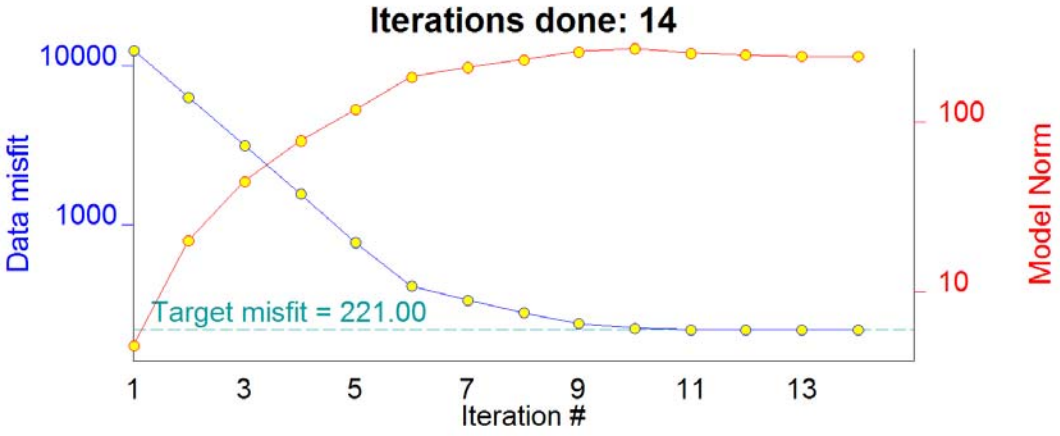

Chargeability Model
Depth (m)
0
88
175
263
10
8.333
6.667
5
3.333
1.667
0
-1050
-804
-558
-312
-67
179
425
X (m)

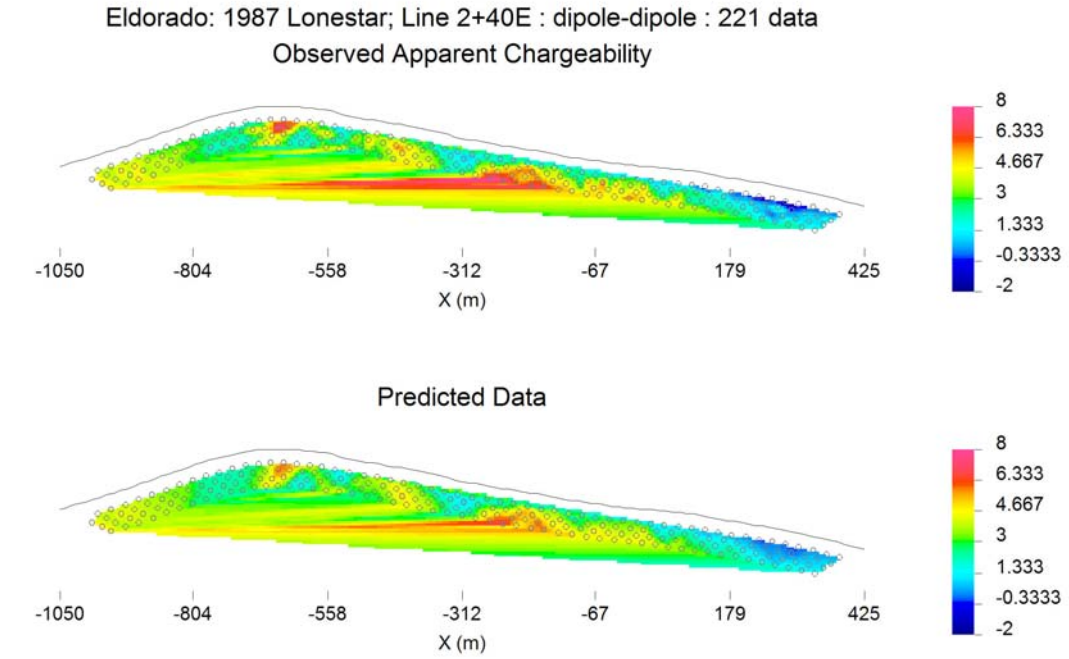

Iterations done: 22
Data misfit
1000
Target misfit = 198.90
1000
100
Model Norm
1
5
9
13
17
21
Iteration #

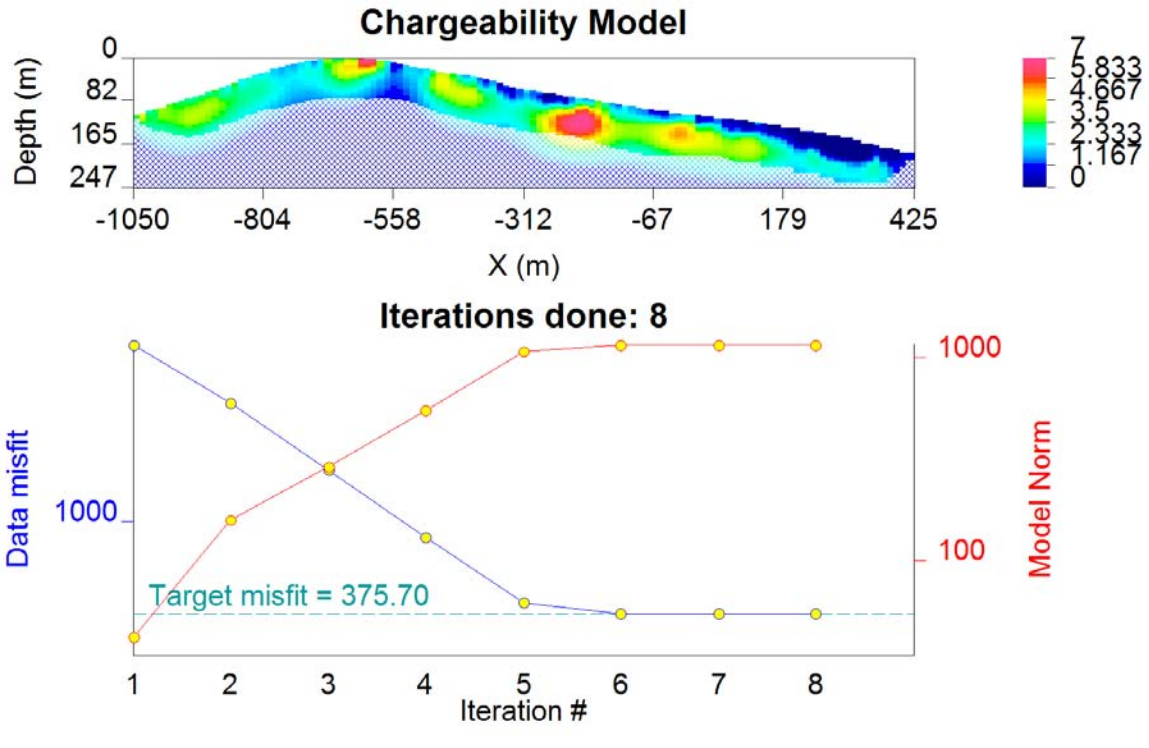

Eldorado: 1987 Lonestar; Line 2+40E : dipole-dipole : 221 data
Observed Apparent Resistivity
7630
4594
2766
1666
1003
603.9
363.6
Ohm - m
-1050
-804
-558
-312
-67
179
425
X (m)

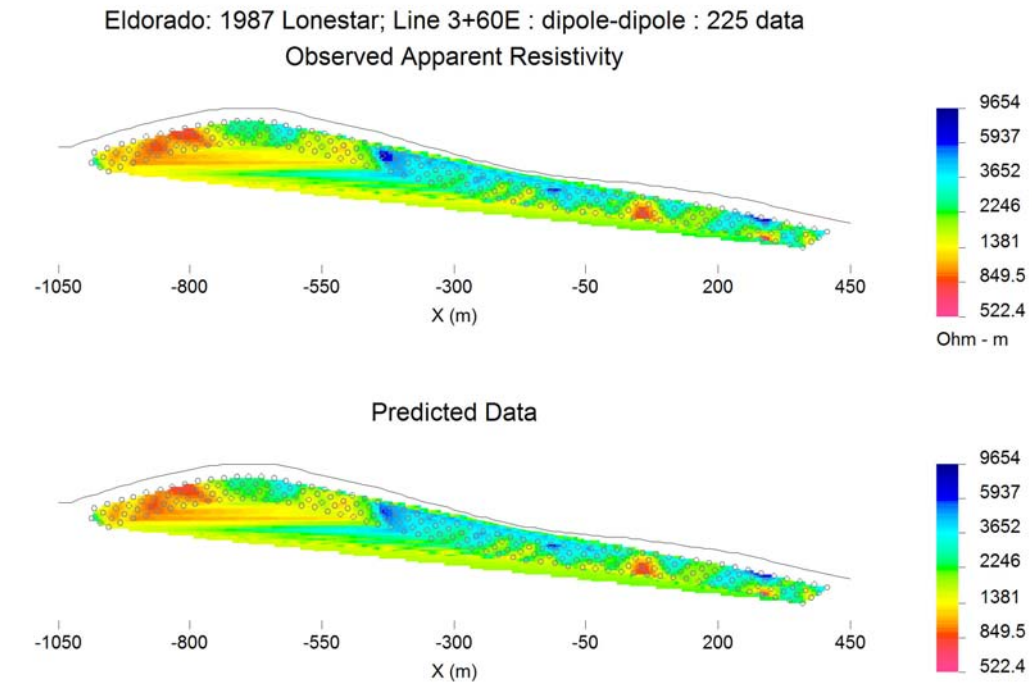

Predicted Data
7630
4594
2766
1666
1003
603.9
363.6
-1050
-804
-558
-312
-67
179
425
X (m)

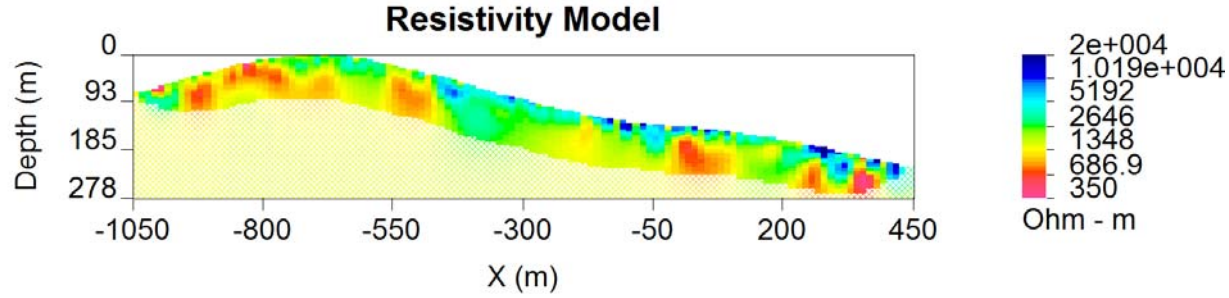

Resistivity Model
Depth (m)
0
73
146
219
-1050
-804
-558
-312
-67
179
425
X (m)
1.903e+004
8517
3811
1706
763.4
341.6
152.9
Ohm - m

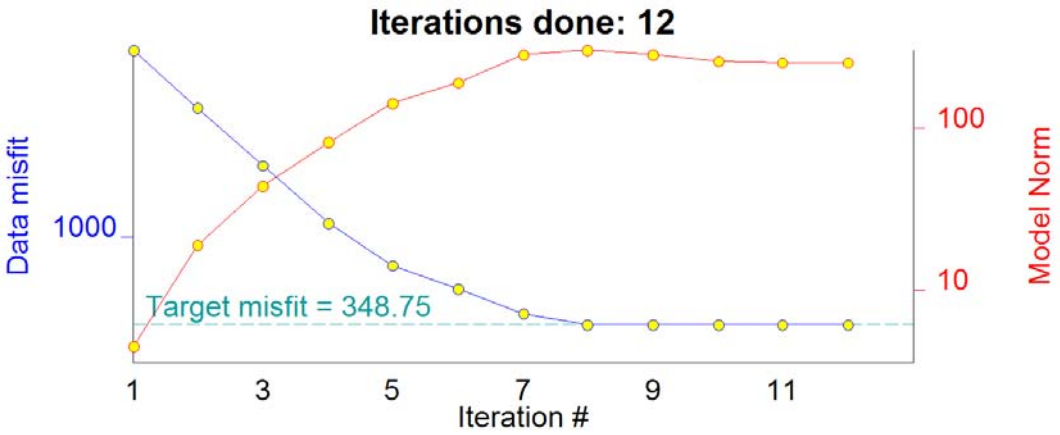

Iterations done: 14
Data misfit
10000
1000
Target misfit = 221.00
100
10
Model Norm
1
3
5
7
9
11
13
Iteration #

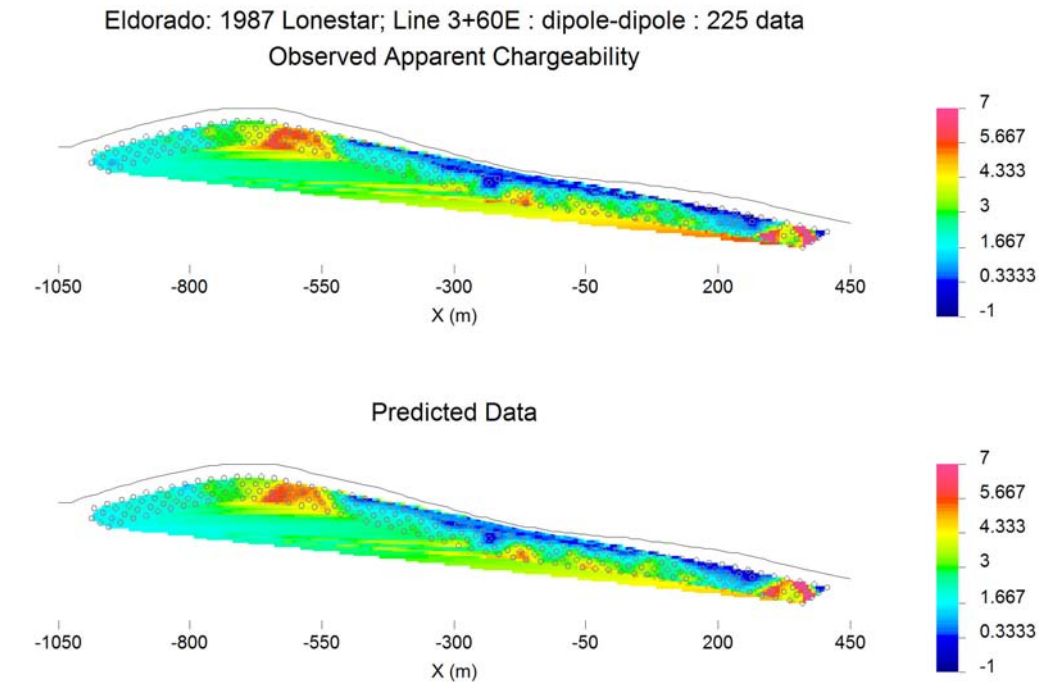

Eldorado: 1987 Lonestar; Line 2+40E : dipole-dipole : 221 data
Observed Apparent Chargeability
8
6.333
4.667
3
1.333
-0.3333
-2
-1050
-804
-558
-312
-67
179
425
X (m)
Predicted Data
8
6.333
4.667
3
1.333
-0.3333
-2
-1050
-804
-558
-312
-67
179
425
X (m)

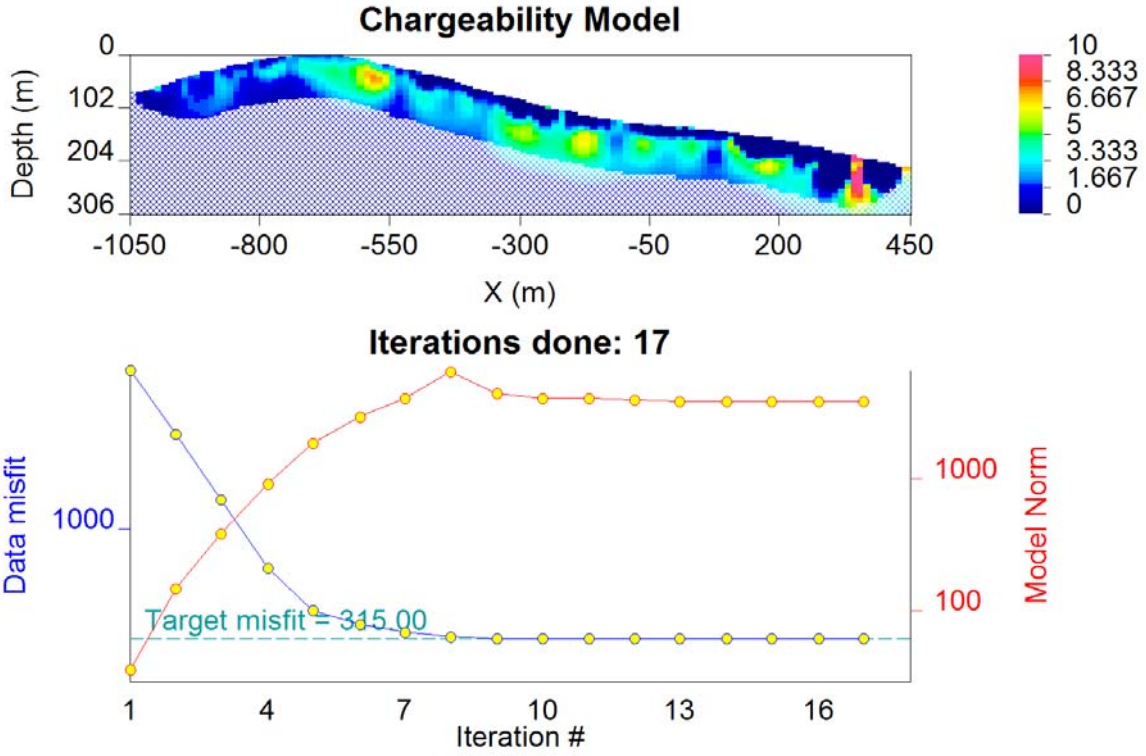

Chargeability Model
Depth (m)
0
82
165
247
-1050
-804
-558
-312
-67
179
425
X (m)
7
5.833
4.667
3.5
2.333
1.167
0
Iterations done: 8
Data misfit
1000
Target misfit = 375.70
1000
100
Model Norm
1
2
3
4
5
6
7
8
Iteration #

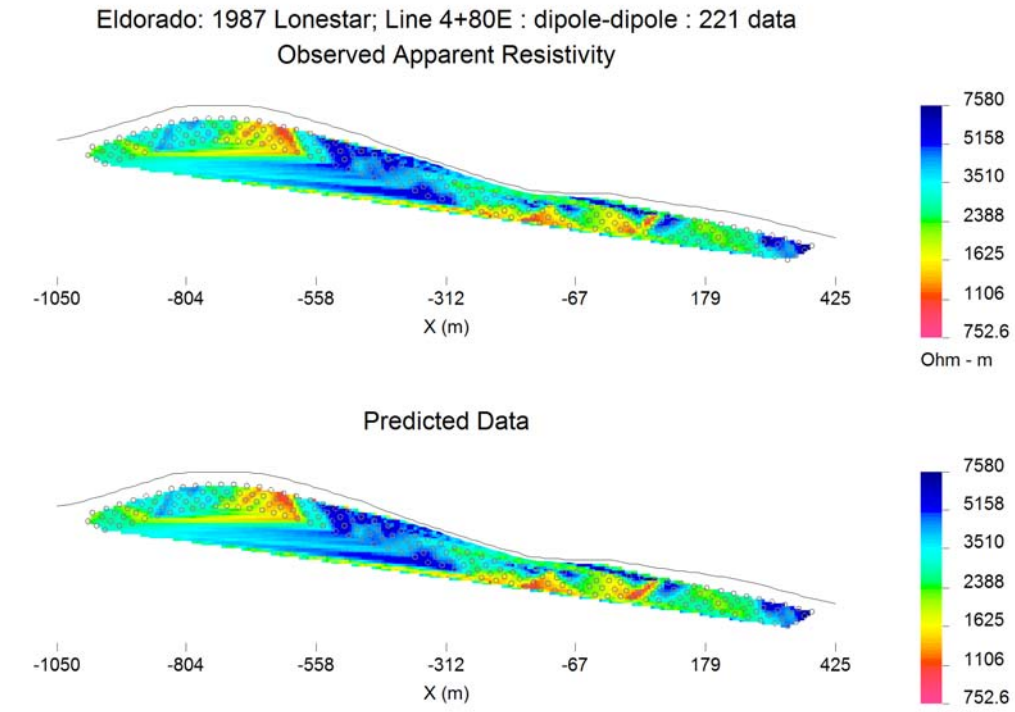

Eldorado: 1987 Lonestar; Line 3+60E : dipole-dipole : 225 data
Observed Apparent Resistivity
9654
5937
3652
2246
1381
849.5
522.4
Ohm - m
-1050
-800
-550
-300
-50
200
450
X (m)
Predicted Data
9654
5937
3652
2246
1381
849.5
522.4
-1050
-800
-550
-300
-50
200
450
X (m)

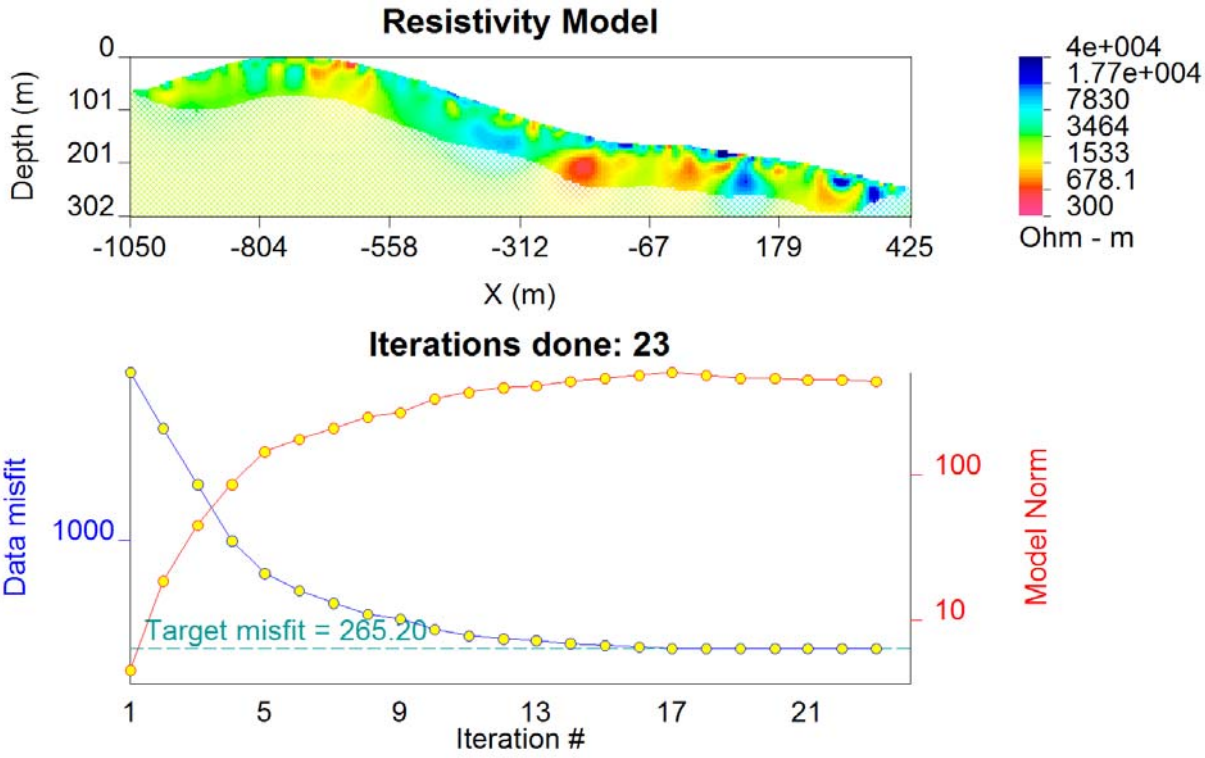

Resistivity Model
Depth (m)
0
93
185
278
-1050
-800
-550
-300
-50
200
450
X (m)
2e+004
1.019e+004
5192
2646
1348
686.9
350
Ohm - m

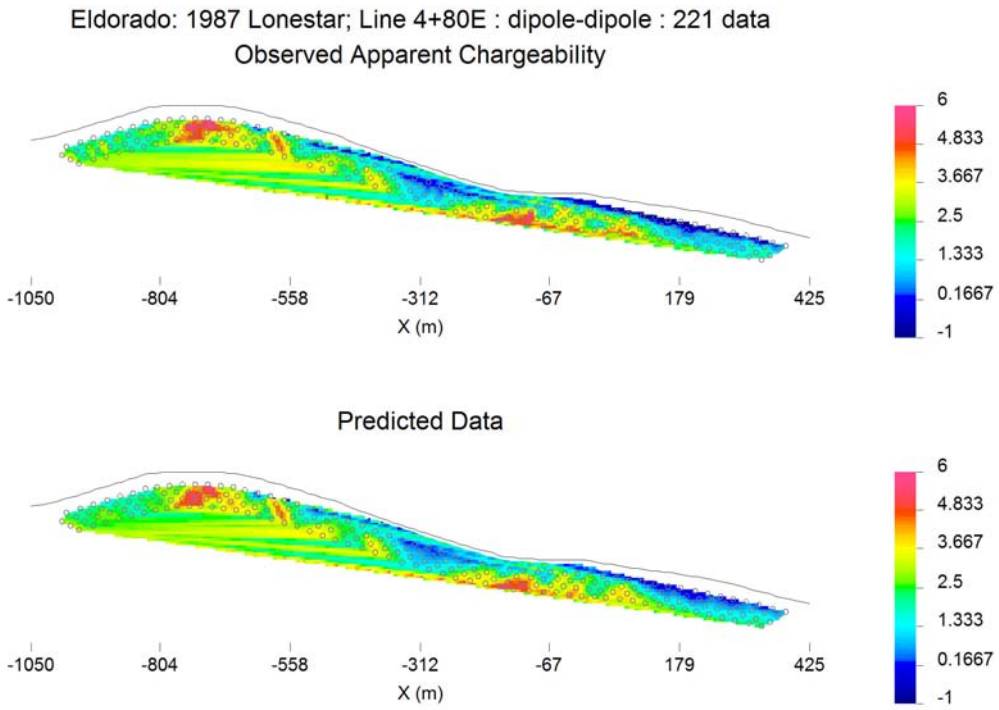

Iterations done: 12
Data misfit
1000
Target misfit = 348.75
100
10
Model Norm
1
3
5
7
9
11
Iteration #

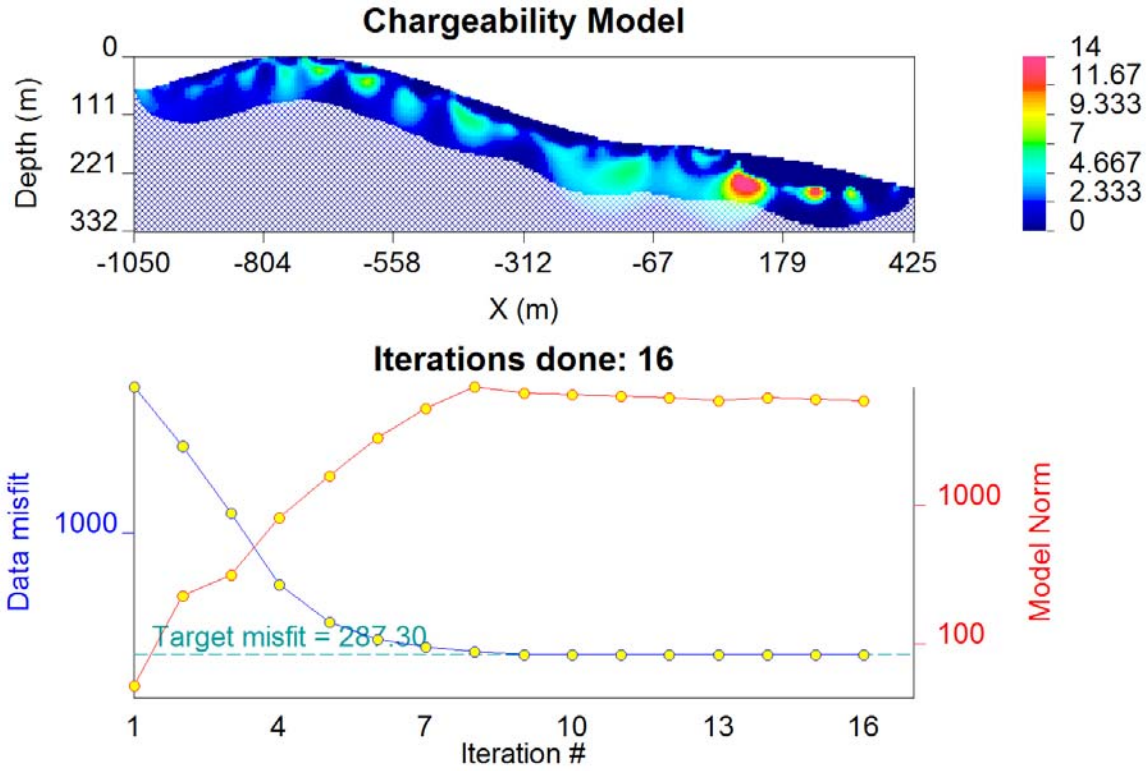

Eldorado: 1987 Lonestar; Line 3+60E : dipole-dipole : 225 data
Observed Apparent Chargeability
7
5.667
4.333
3
1.667
0.3333
-1
-1050
-800
-550
-300
-50
200
450
X (m)
Predicted Data
7
5.667
4.333
3
1.667
0.3333
-1
-1050
-800
-550
-300
-50
200
450
X (m)

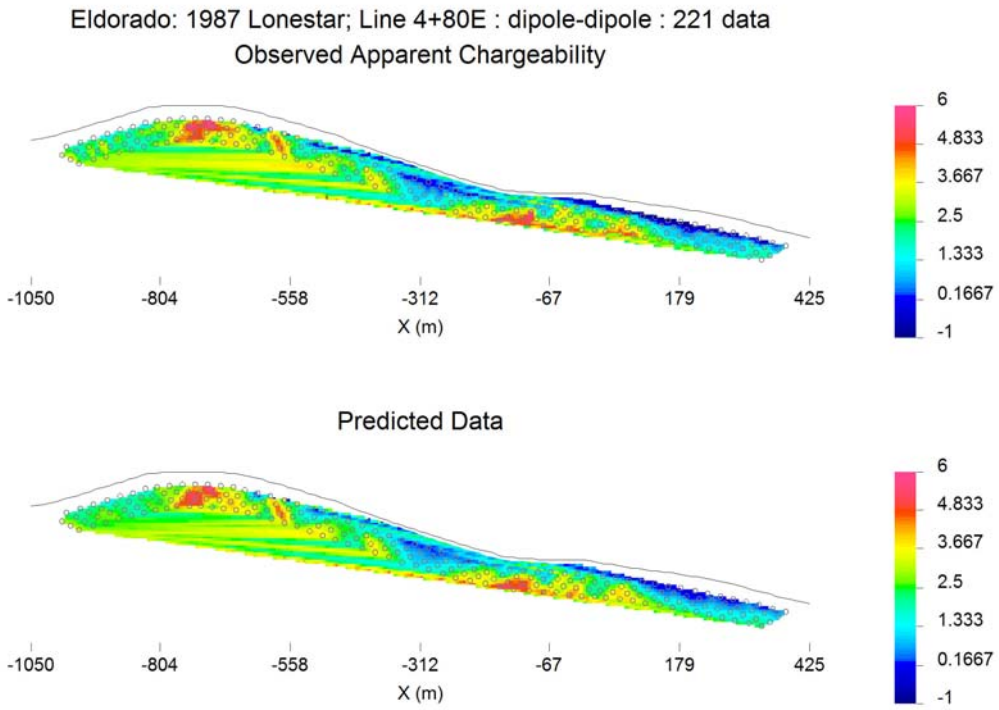

Chargeability Model
Depth (m)
0
102
204
306
10
8.333
6.667
5
3.333
1.667
0
-1050
-800
-550
-300
-50
200
450
X (m)
Iterations done: 17
Data misfit
1000
Target misfit = 345.00
1000
100
Model Norm
1
4
7
10
13
16
Iteration #

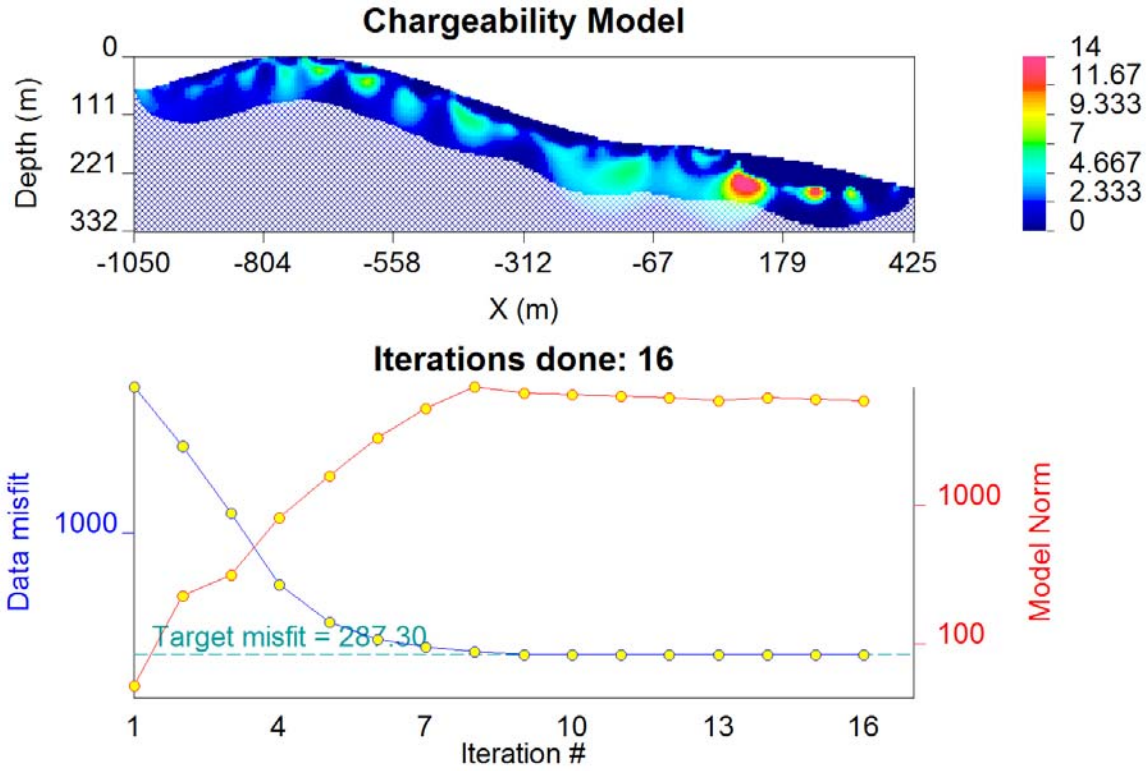

Eldorado: 1987 Lonestar; Line 4+80E : dipole-dipole : 221 data
Observed Apparent Resistivity
7580
5158
3510
2388
1625
1106
752.6
Ohm - m
-1050
-804
-558
-312
-67
179
425
X (m)
Predicted Data
7580
5158
3510
2388
1625
1106
752.6
-1050
-804
-558
-312
-67
179
425
X (m)


Resistivity Model
Depth (m)
0
101
201
302
-1050
-804
-558
-312
-67
179
425
X (m)
4e+004
1.77e+004
7830
3464
1533
678.1
300
Ohm - m
Iterations done: 23
Data misfit
1000
Target misfit = 265.20
100
10
Model Norm
1
5
9
13
17
21
Iteration #


Eldorado: 1987 Lonestar; Line 4+80E : dipole-dipole : 221 data
Observed Apparent Chargeability
6
4.833
3.667
2.5
1.333
0.1667
-1
-1050
-804
-558
-312
-67
179
425
X (m)
Predicted Data
6
4.833
3.667
2.5
1.333
0.1667
-1
-1050
-804
-558
-312
-67
179
425
X (m)

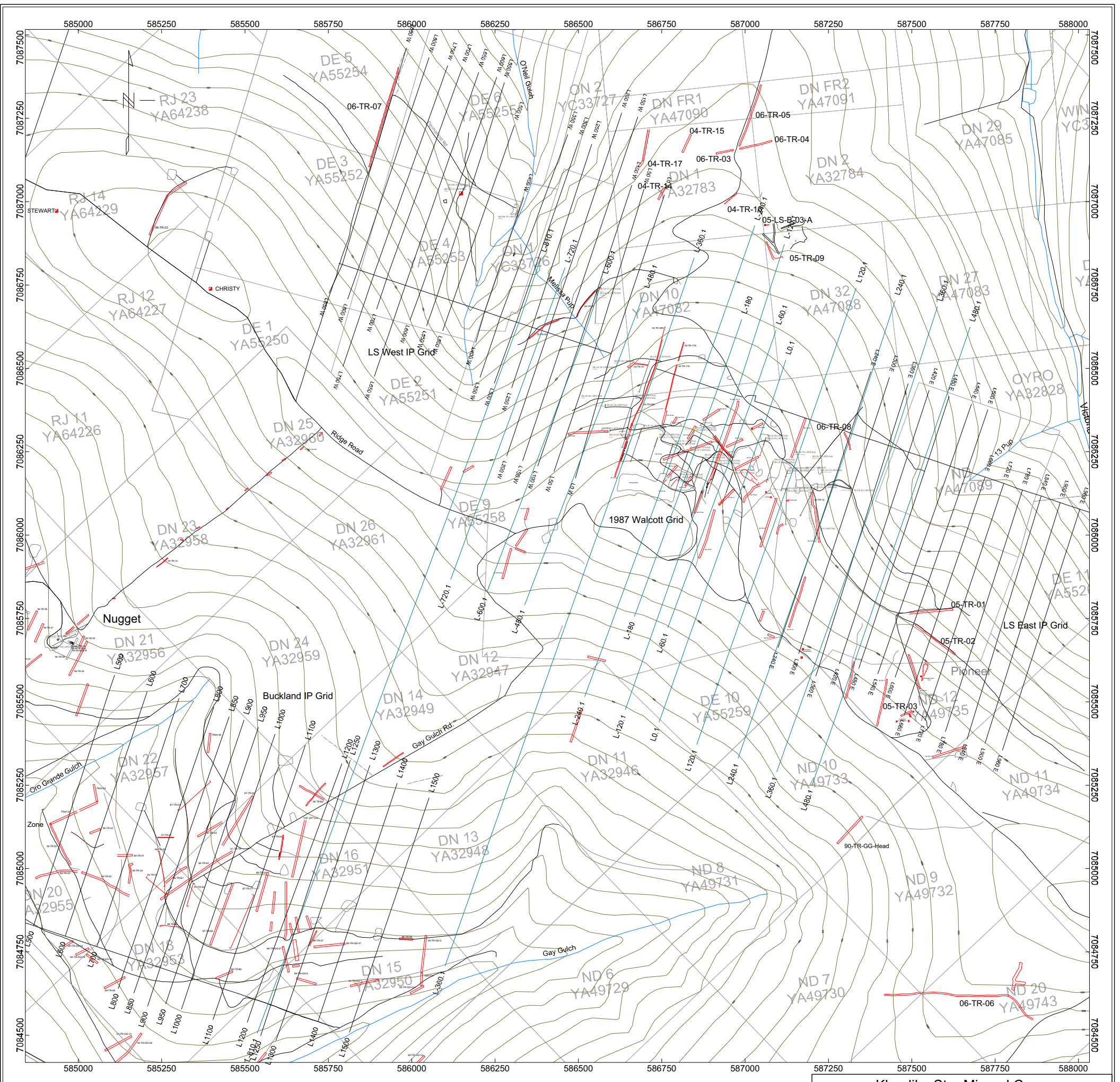

Chargeability Model
Depth (m)
0
111
221
332
14
11.67
9.333
7
4.667
2.333
0
-1050
-804
-558
-312
-67
179
425
X (m)
Iterations done: 16
Data misfit
1000
Target misfit = 287.30
1000
100
Model Norm
1
4
7
10
13
16
Iteration #


Eldorado: 1987 Lonestar; Line 4+80E : dipole-dipole : 221 data
Observed Apparent Chargeability
6
4.833
3.667
2.5
1.333
0.1667
-1
-1050
-804
-558
-312
-67
179
425
X (m)
Predicted Data
6
4.833
3.667
2.5
1.333
0.1667
-1
-1050
-804
-558
-312
-67
179
425
X (m)


Chargeability Model
Depth (m)
0
111
221
332
14
11.67
9.333
7
4.667
2.333
0
-1050
-804
-558
-312
-67
179
425
X (m)
Iterations done: 16
Data misfit
1000
Target misfit = 287.30
1000
100
Model Norm
1
4
7
10
13
16
Iteration #

APPENDIX H

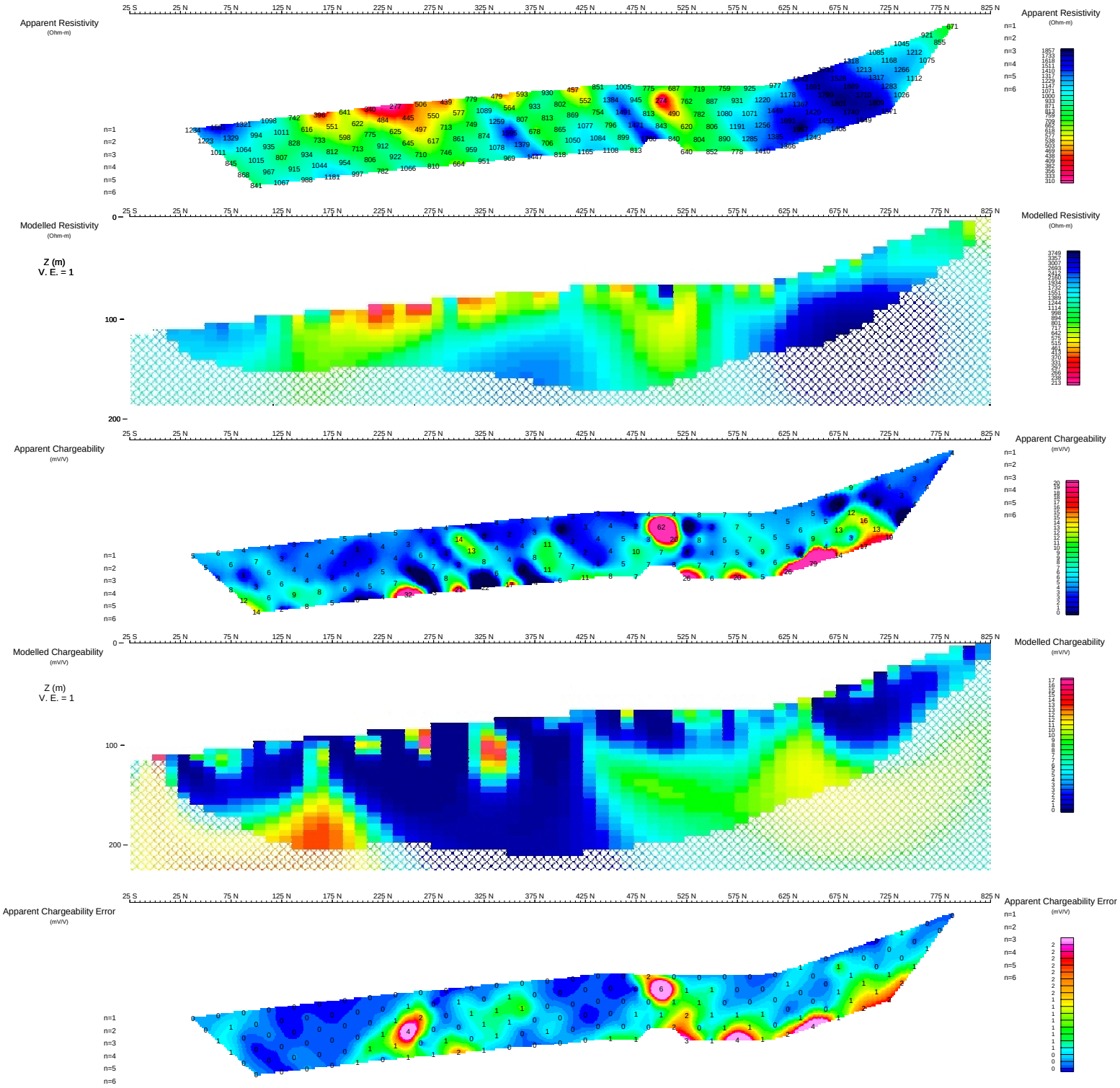
PAGE SIZED FIGURES FROM BACK POCKETS



Klondike Star Mineral Corp.

Lone Star Project
Lone Star East, West, Buckland and 1987 Walcott Grids
Location Map

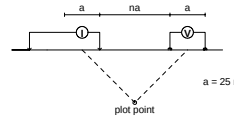
Figure 2
February 19, 2007



COMPOSITE SECTION

L500 E

Modified Dipole-Dipole Array



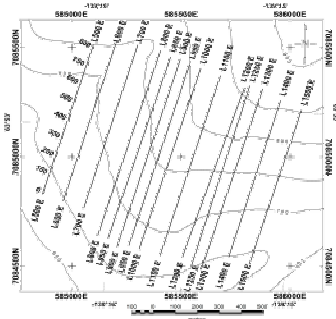
Stationary electrode at 825N (moving S).

Receiver: Iris ElrecPro

Transmitter: GDD Tx-II 3.6kW

Data File: Buckland 2006 IP.xyz

Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150

metres

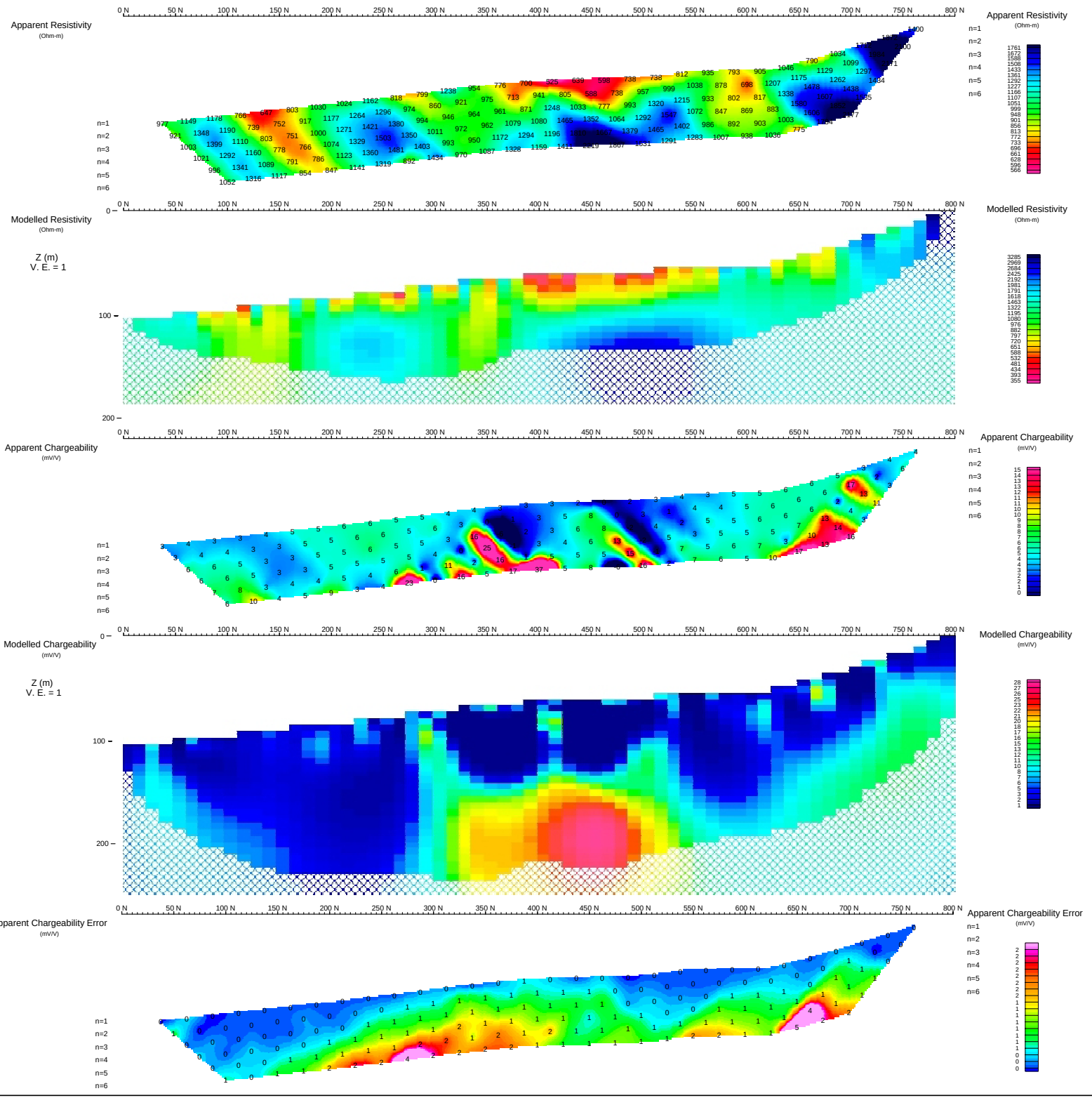
Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
COMPOSITE SECTION L500 E

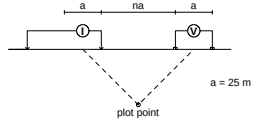
NTS: 115 O/14 — Mining District: Dawson
Datum: NAD 83 — Projection: UTM Zone 7
Job: KDS-06-02-YT — Date: 19 Oct 06
Drawn by: A. Lebel — **Appendix E**

AURORA GEOSCIENCES LTD.

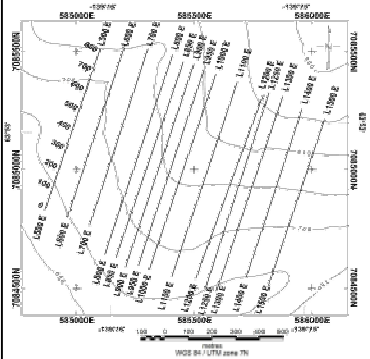


COMPOSITE SECTION
L600 E

Modified Dipole-Dipole Array



Stationary electrode at 800N (moving S).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Eldorado 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres
Vertical Exaggeration = 1.0

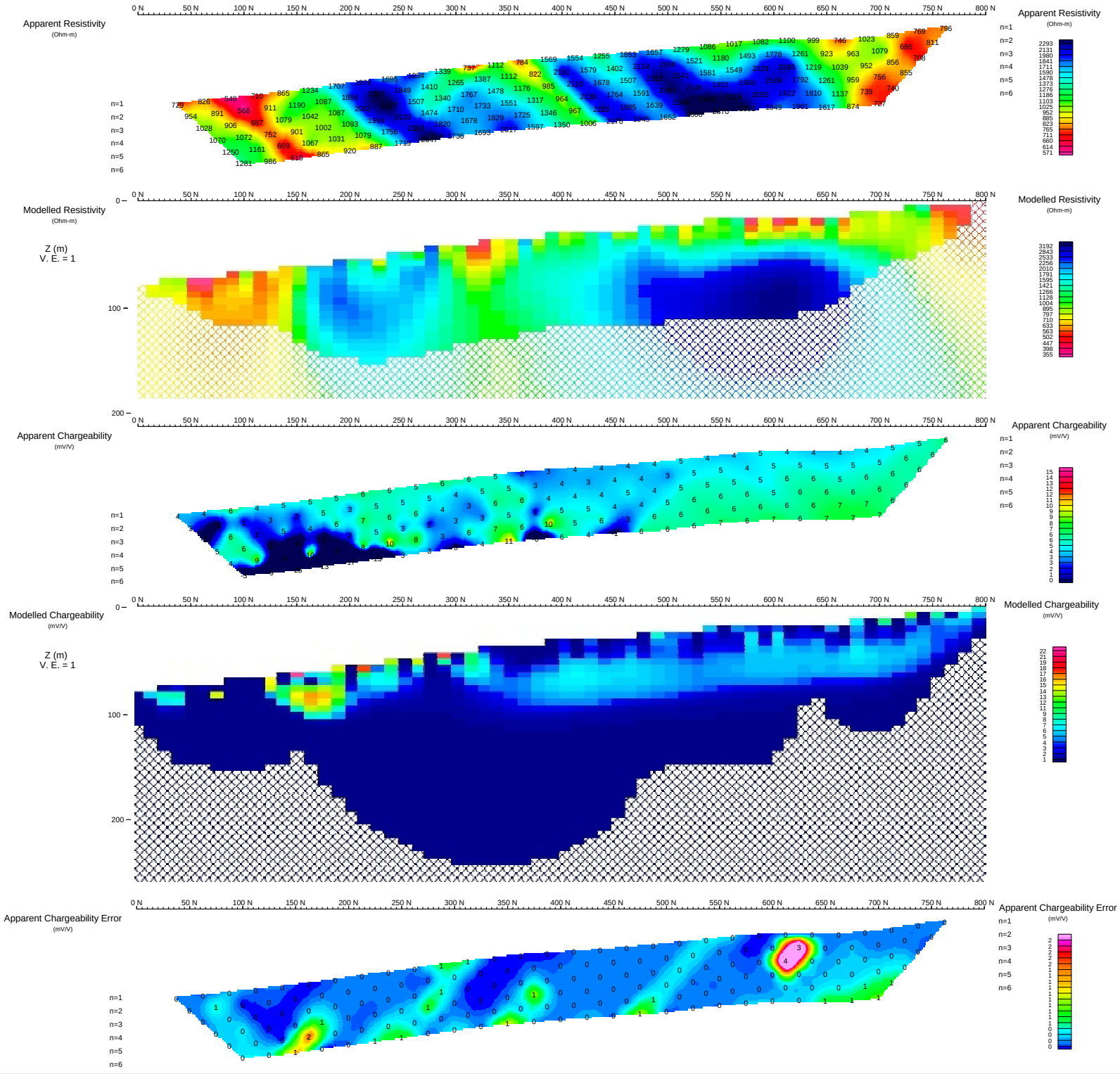
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
COMPOSITE SECTION L600 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

Mining District: Dawson
Projection: UTM Zone 7
Date 07 Feb 07
Appendix E

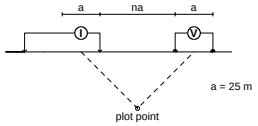
AURORA GEOSCIENCES LTD.



COMPOSITE SECTION

L700 E

Modified Dipole-Dipole Array



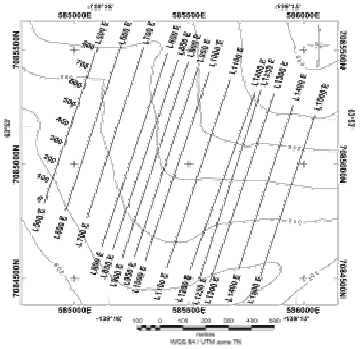
Stationary electrode at 800N (moving S).

Receiver: Iris ElrecPro

Transmitter: GDD Tx-II 3.6kW

Data File: Eldorado 2006 IP.xyz

Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150

metres

Vertical Exaggeration = 1.0

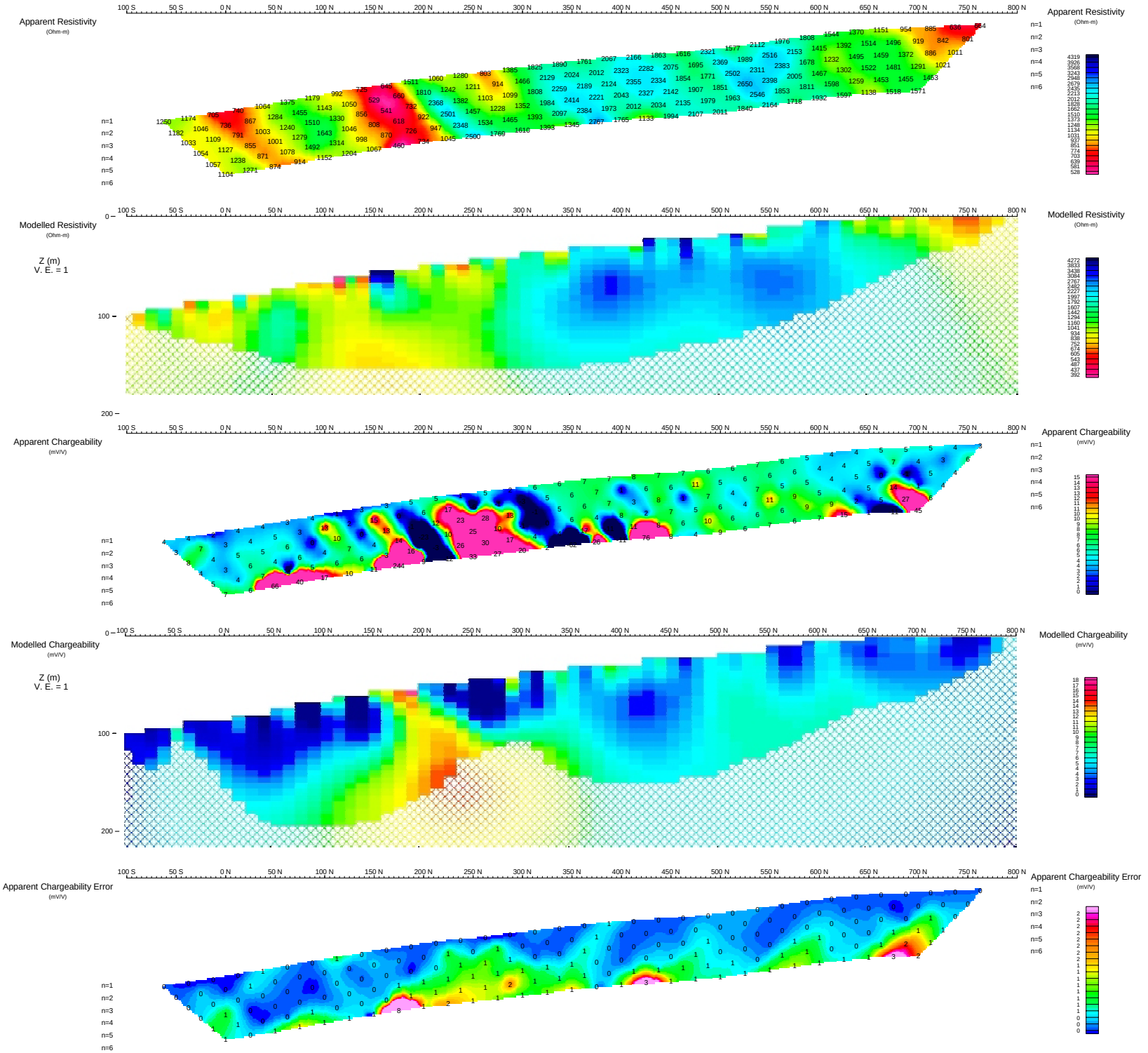
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
COMPOSITE SECTION L700 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

Mining District: Dawson
Projection: UTM Zone 7
Date 07 Feb 07
Appendix E

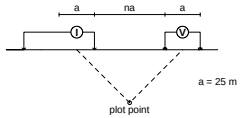
AURORA GEOSCIENCES LTD.



COMPOSITE SECTION

L800 E

Modified Dipole-Dipole Array



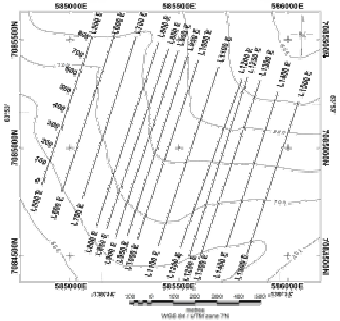
Stationary electrode at 800N (moving S).

Receiver: Iris ElrecPro

Transmitter: GDD Tx-II 3.6kW

Data File: Eldorado 2006 IP.xyz

Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150

metres

Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

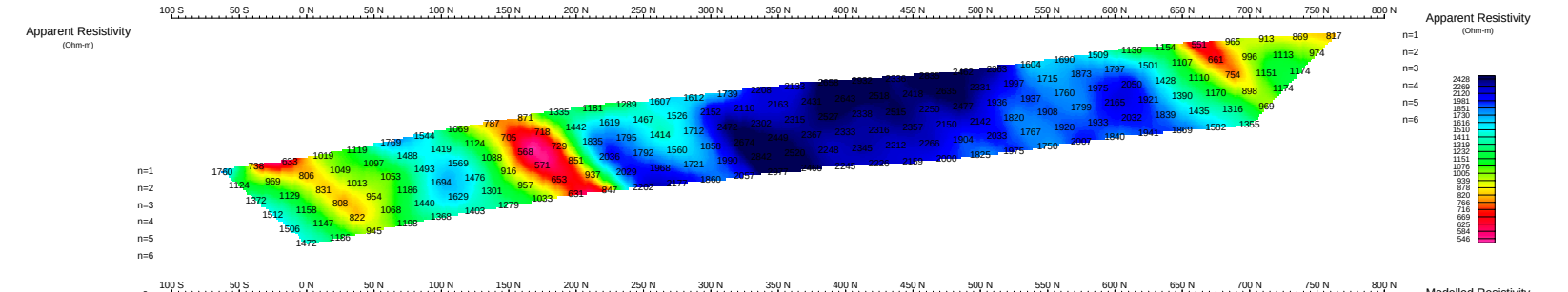
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
COMPOSITE SECTION L800 E

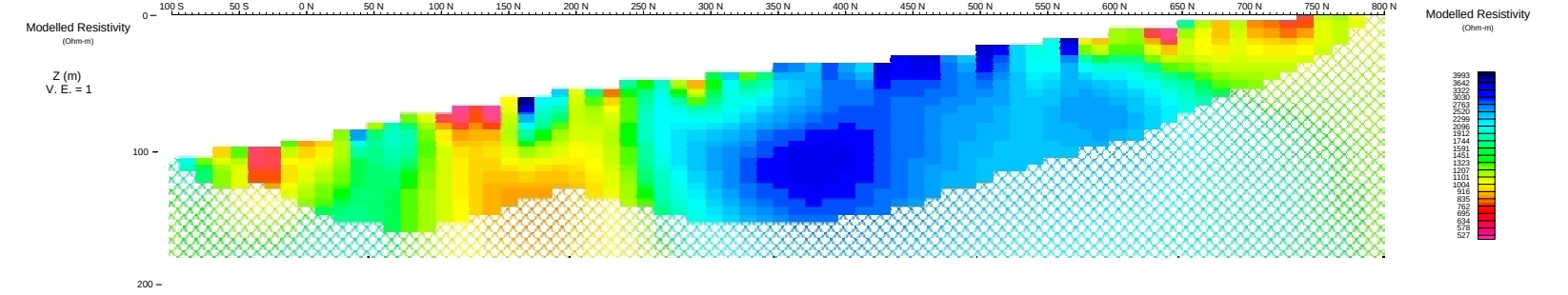
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

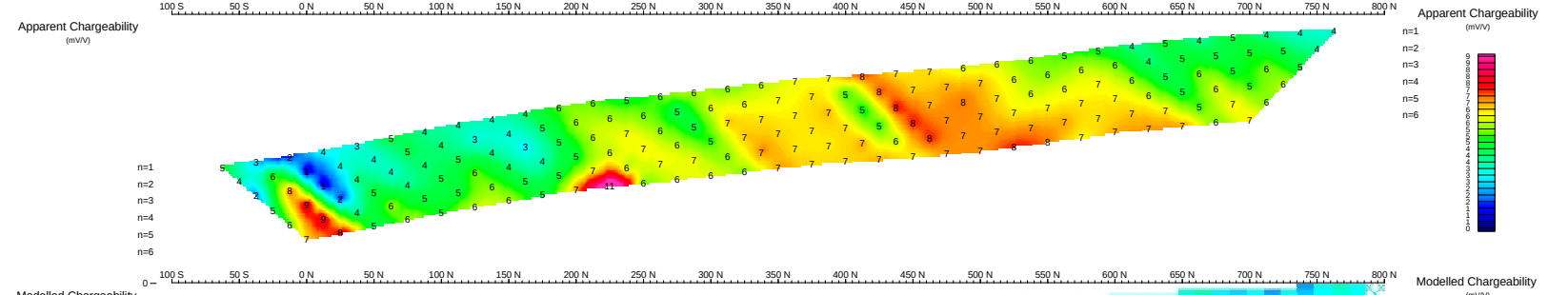
Mining District: Dawson
Projection: UTM Zone 7
Date 07 Feb 07
Appendix E

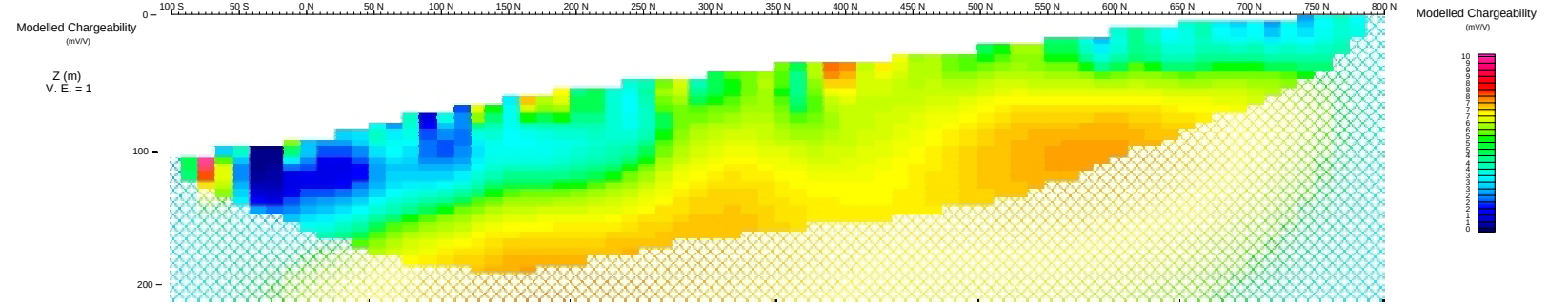
AURORA GEOSCIENCES LTD.

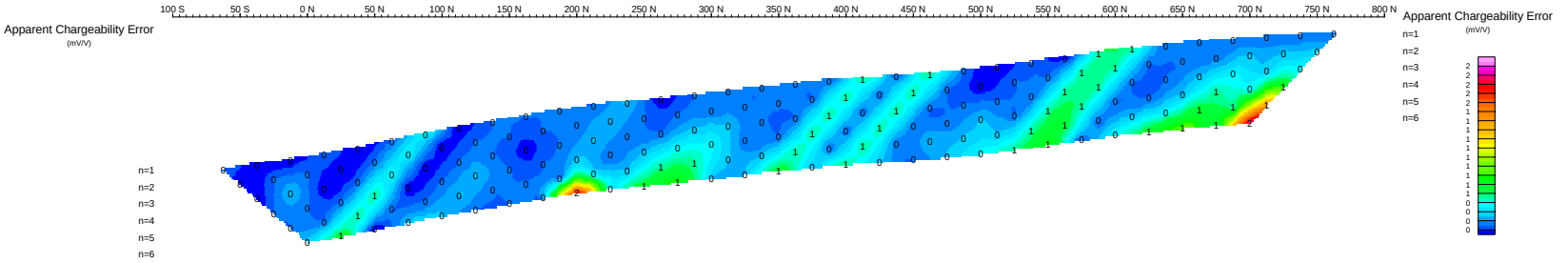
COMPOSITE SECTION
L850 E



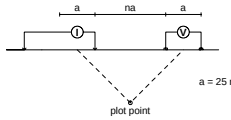




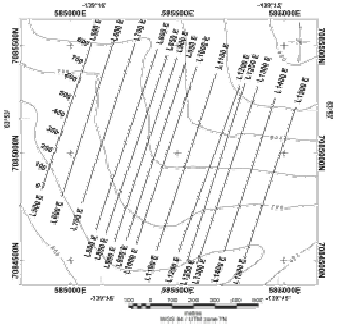




Modified Dipole-Dipole Array



Stationary electrode at 800N (moving S).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Eldorado 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres
Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
COMPOSITE SECTION L850 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

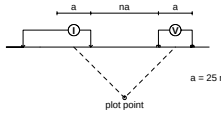
Mining District: Dawson
Projection: UTM Zone 7
Date 07 Feb 07
Appendix E

AURORA GEOSCIENCES LTD.

COMPOSITE SECTION

L900 E

Modified Dipole-Dipole Array



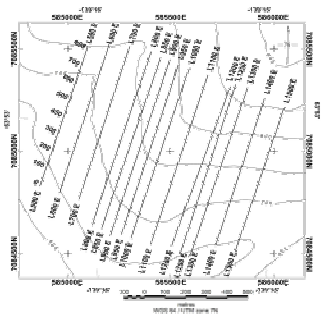
Stationary electrode at 800N (moving S).

Receiver: Iris ElrecPro

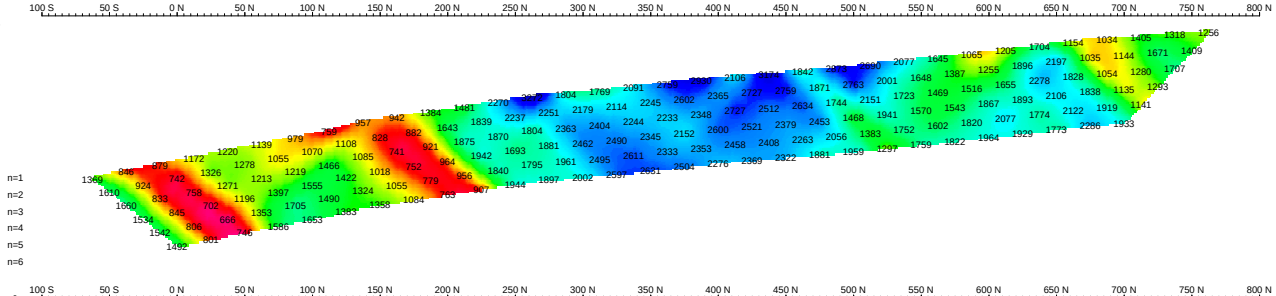
Transmitter: GDD Tx-II 3.6kW

Data File: Eldorado 2006 IP.xyz

Dates Surveyed : Aug 22 to Sept 25, 2006

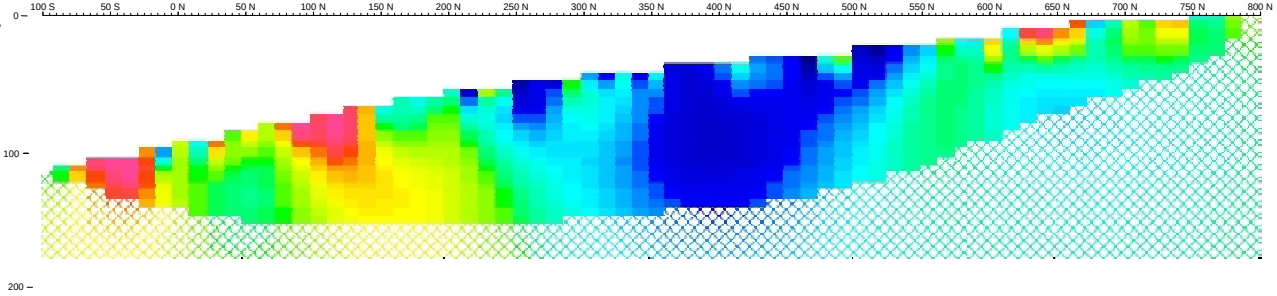


Apparent Resistivity (Ohm-m)

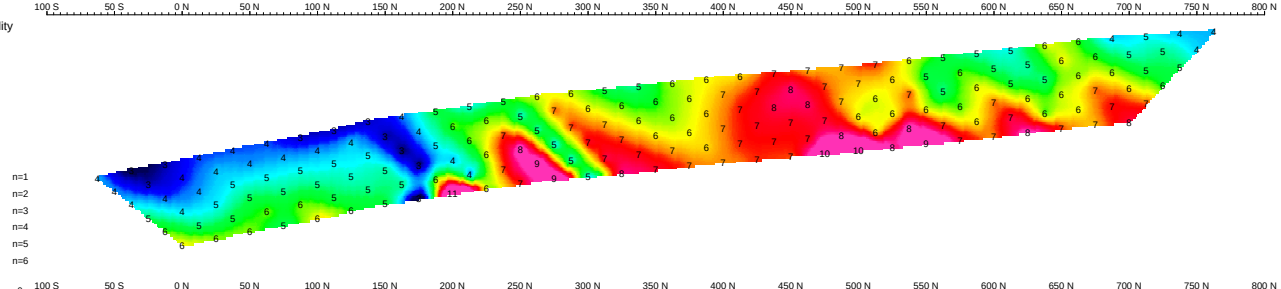


Modelled Resistivity (Ohm-m)

Z (m) V. E. = 1

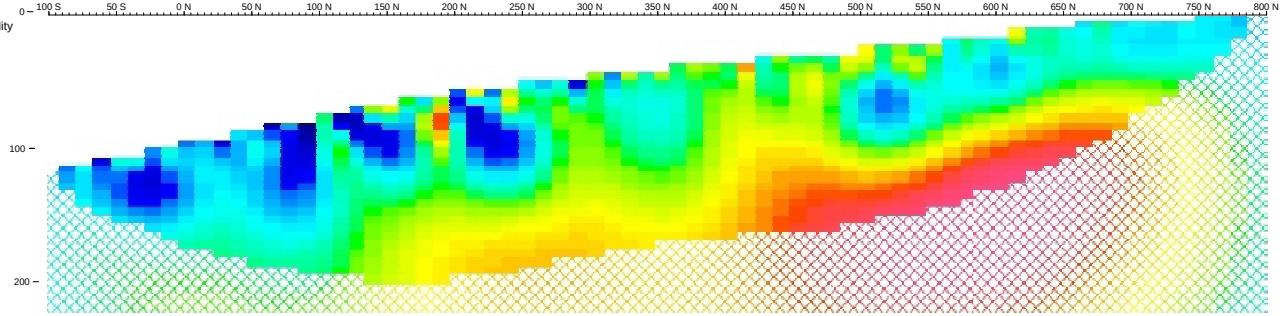


Apparent Chargeability (mV/V)

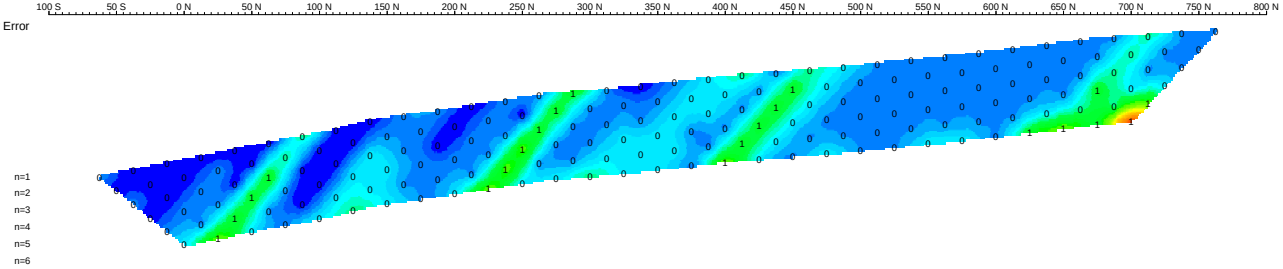


Modelled Chargeability (mV/V)

Z (m) V. E. = 1



Apparent Chargeability Error (mV/V)



25 0 25 50 75 100 125 150

metres

Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY

ELDORADO PROPERTY, BUCKLAND GRID

COMPOSITE SECTION L900 E

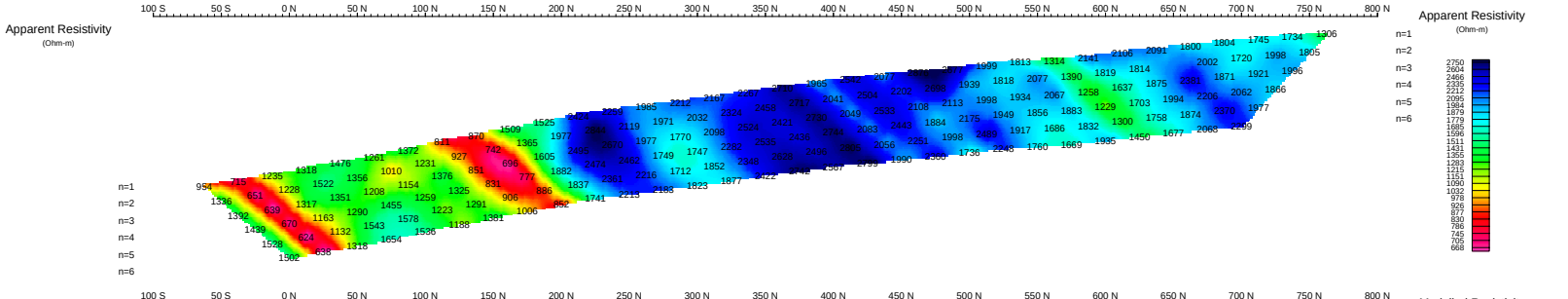
NTS: 115 O/14 — Mining District: Dawson

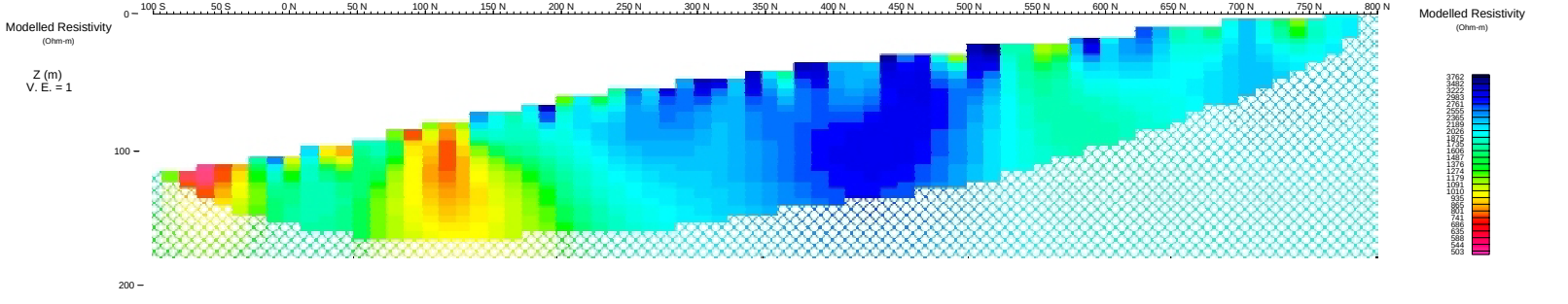
Datum: NAD 83 — Projection: UTM Zone 7

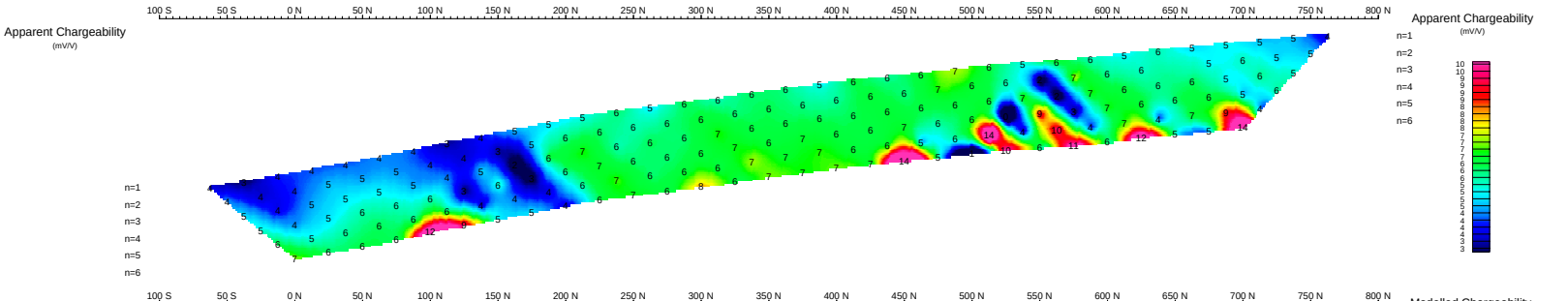
Job: KDS-06-02-YT — Date 07 Feb 07

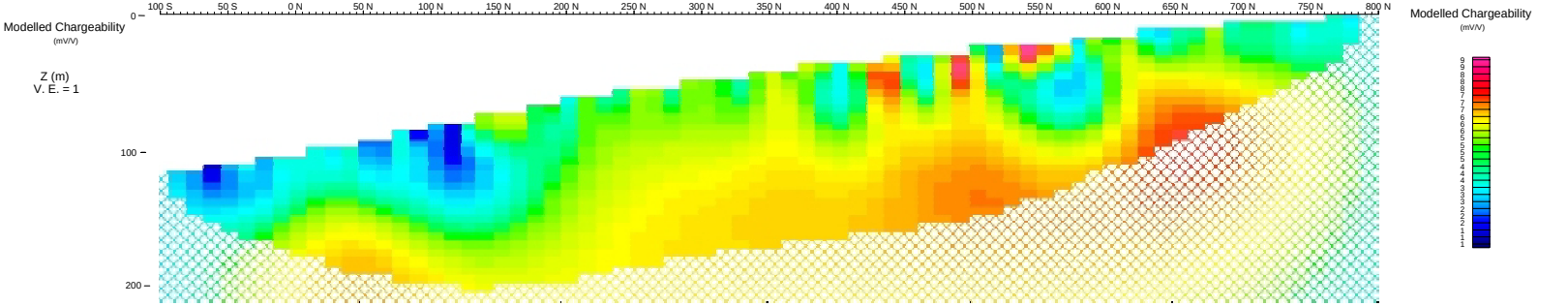
Drawn by: A. Lebel — **Appendix E**

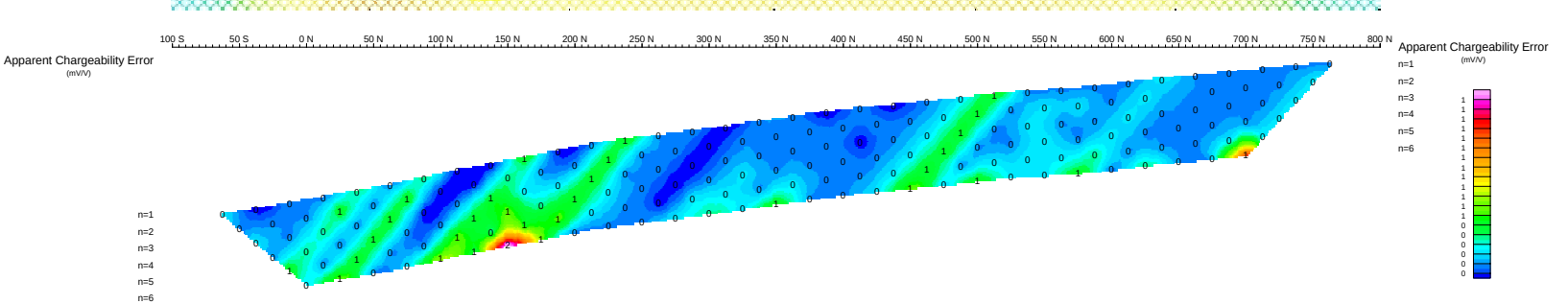
AURORA GEOSCIENCES LTD.





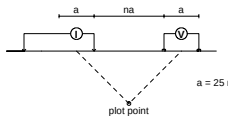




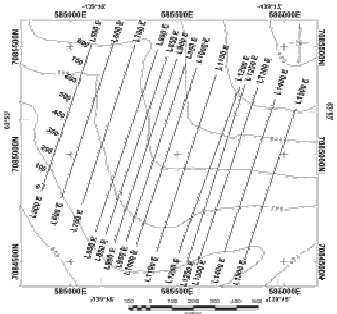


COMPOSITE SECTION
L950 E

Modified Dipole-Dipole Array



Stationary electrode at 800N (moving S).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Eldorado 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

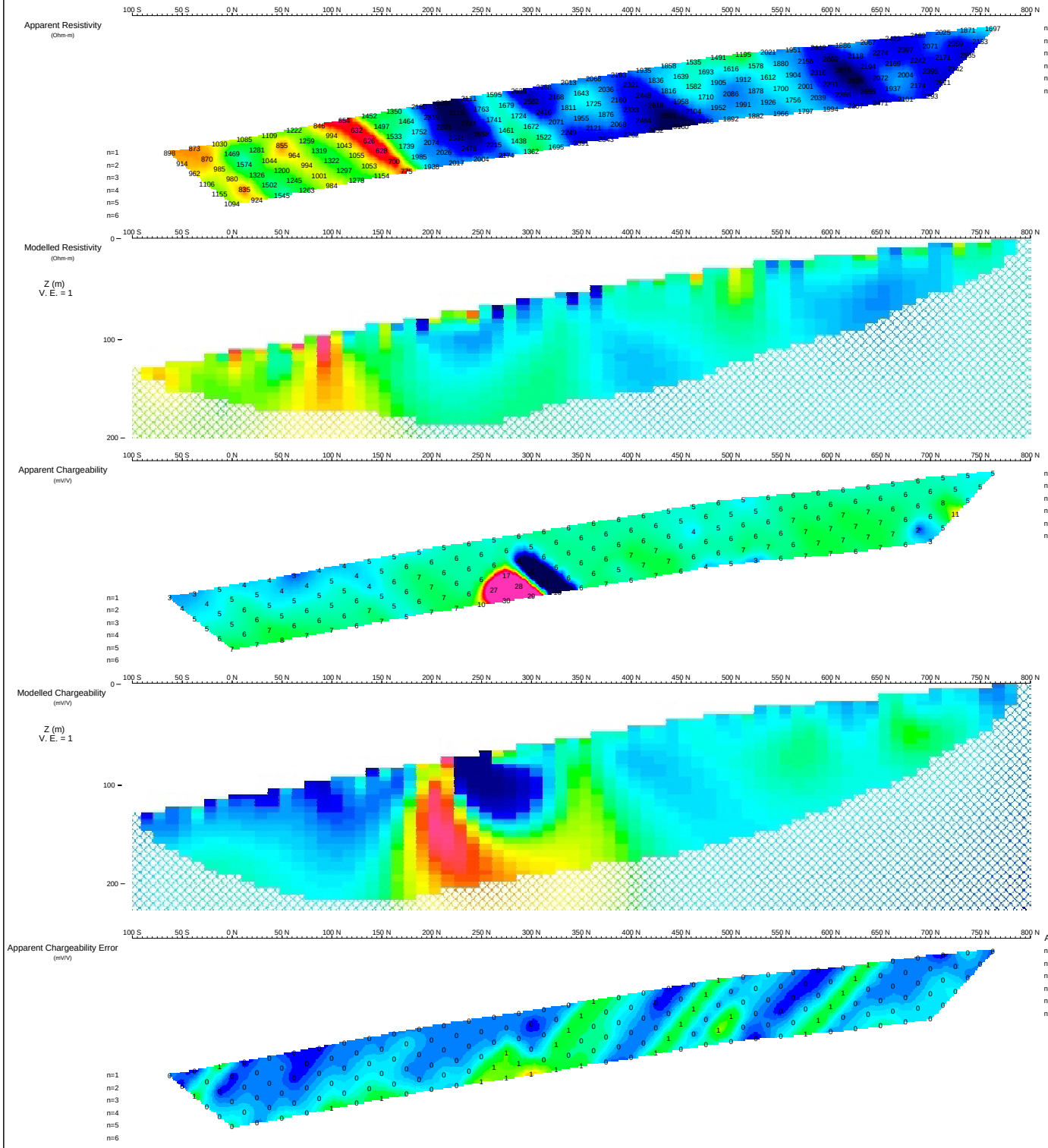
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
COMPOSITE SECTION L950 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

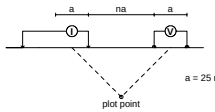
Mining District: Dawson
Projection: UTM Zone 7
Date 07 Feb 07
Appendix E

AURORA GEOSCIENCES LTD.

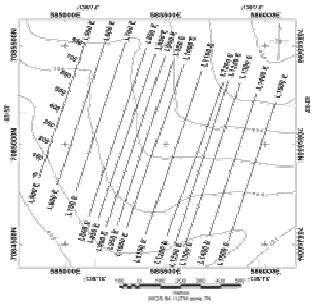


COMPOSITE SECTION
L1000 E

Modified Dipole-Dipole Array



Stationary electrode at 800N (moving S).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Eldorado 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

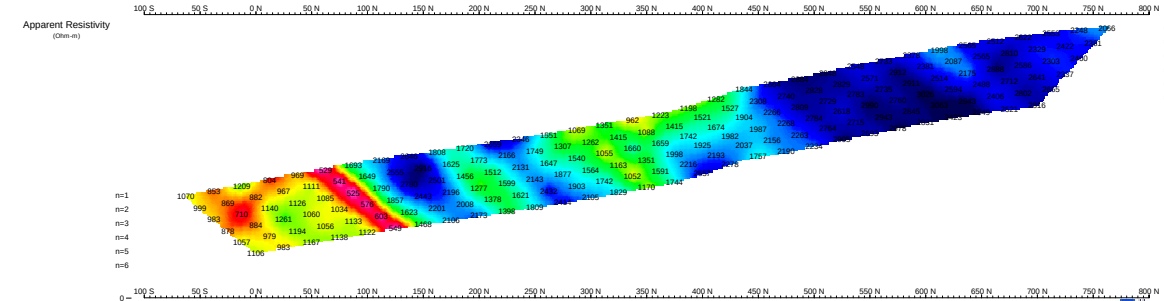
KLONDIKE STAR MINERAL CORP.

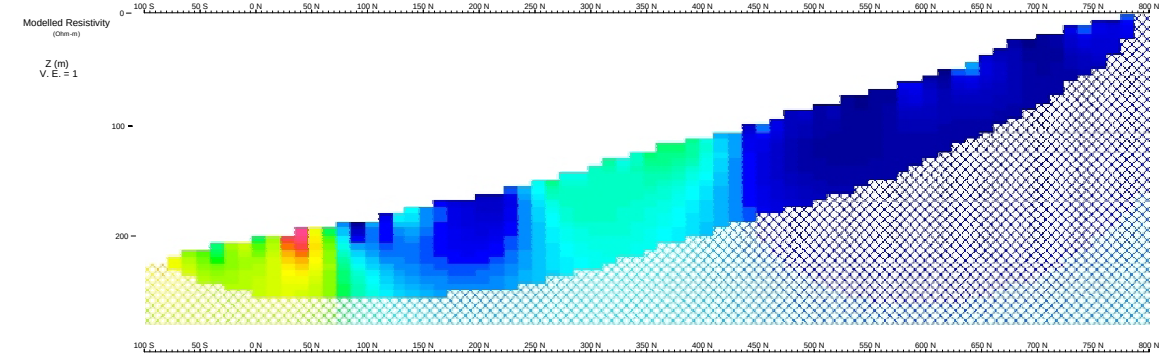
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GIRD
COMPOSITE SECTION L1000 E

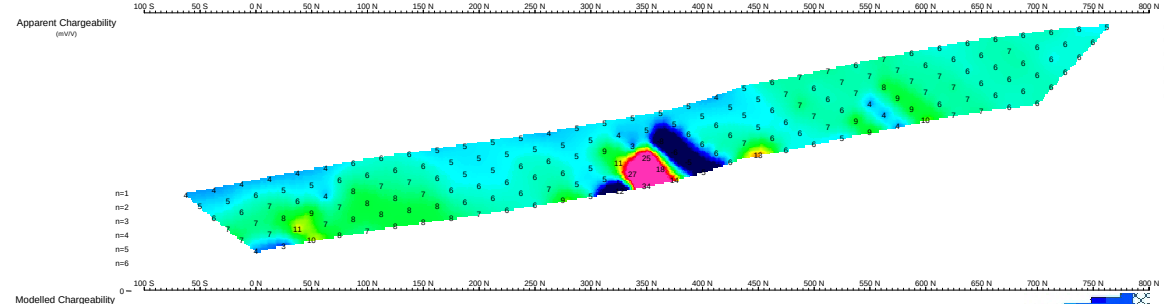
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

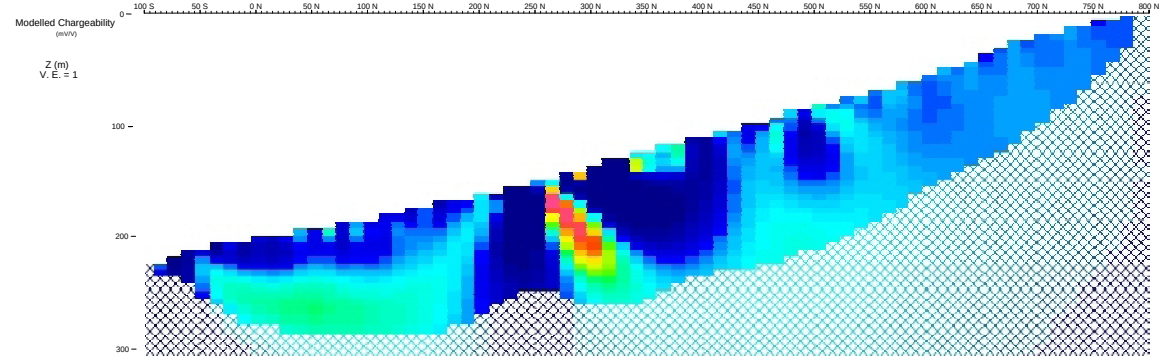
Mining District: Dawson
Projection: UTM Zone 7
Date 07 Feb 07
Appendix E

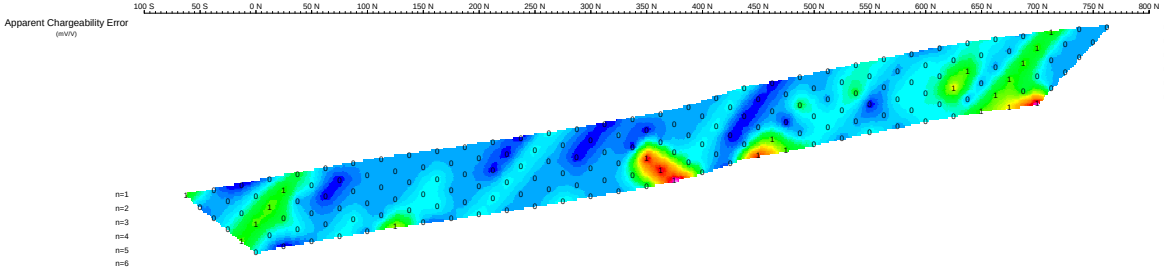
AURORA GEOSCIENCES LTD.





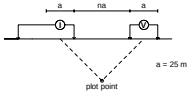




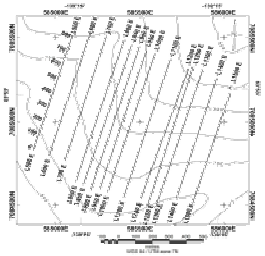


COMPOSITE SECTION
L1100 E

Modified Dipole-Dipole Array



Stationary electrode at 800N (moving S).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Eldorado 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres
Vertical Exaggeration = 1.0

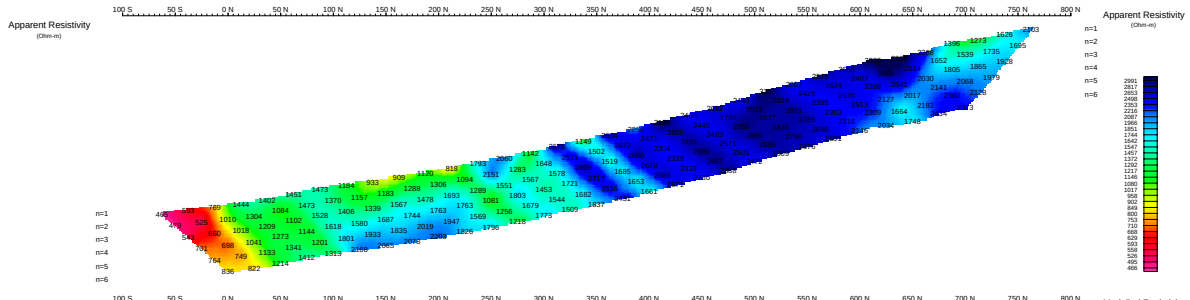
KLONDIKE STAR MINERAL CORP.

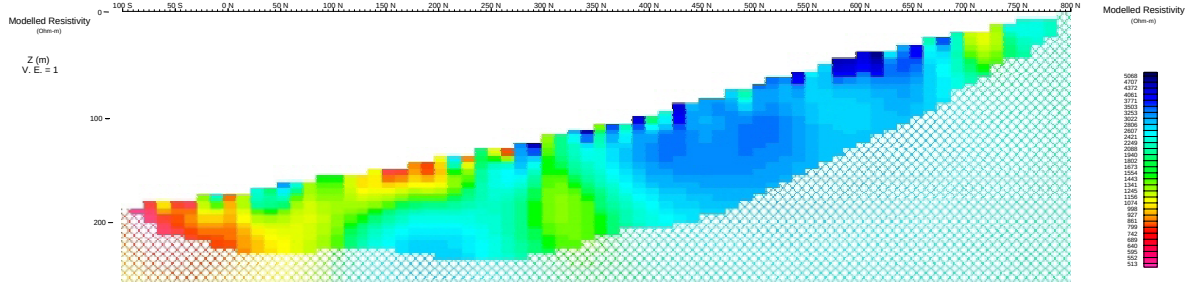
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GIRD
COMPOSITE SECTION L1100 E

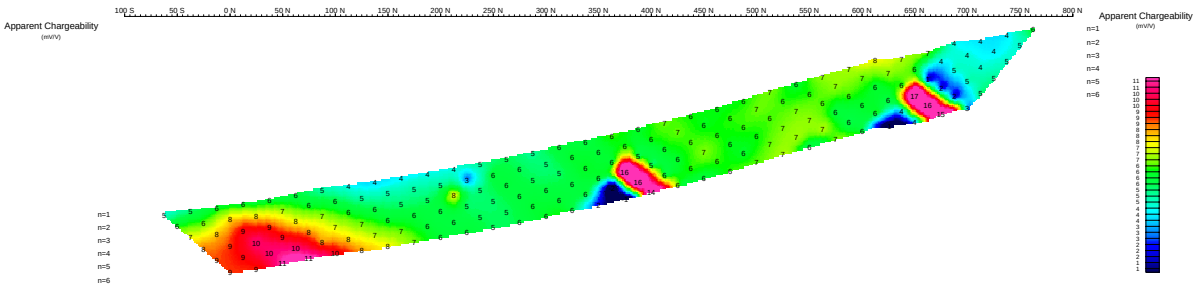
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

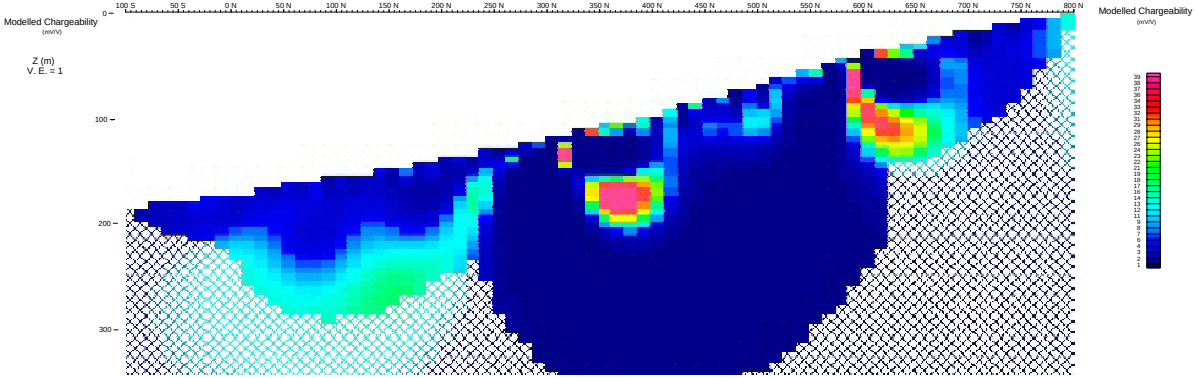
Mining District: Dawson
Projection: UTM Zone 7
Date 07 Feb 07
Appendix E

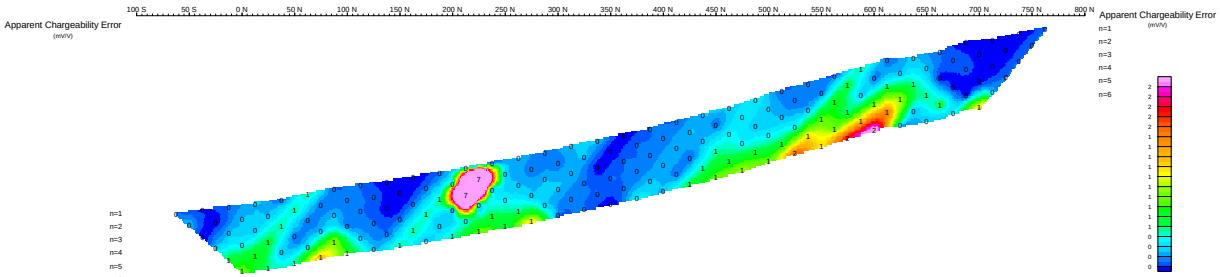
AURORA GEOSCIENCES LTD.





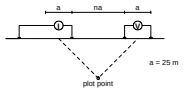




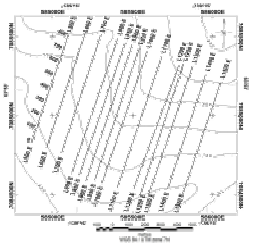


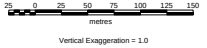
COMPOSITE SECTION
L1200 E

Modified Dipole-Dipole Array



Stationary electrode at 800N (moving S).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Eldorado 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Vertical Exaggeration = 1.0

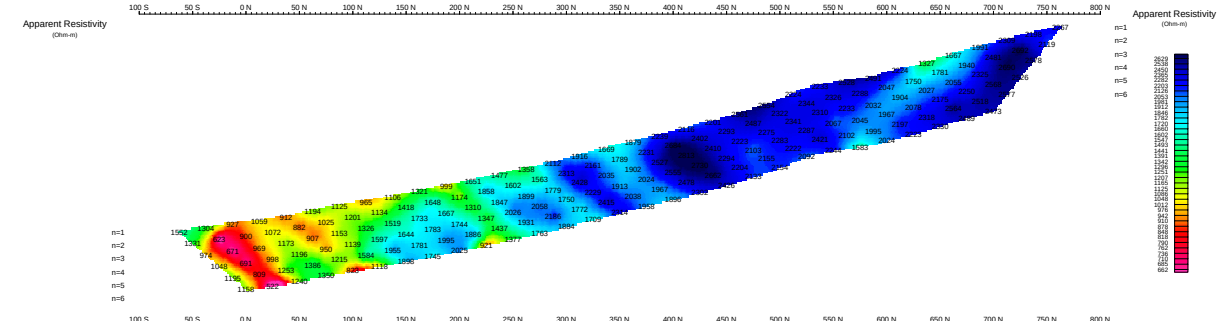
KLONDIKE STAR MINERAL CORP.

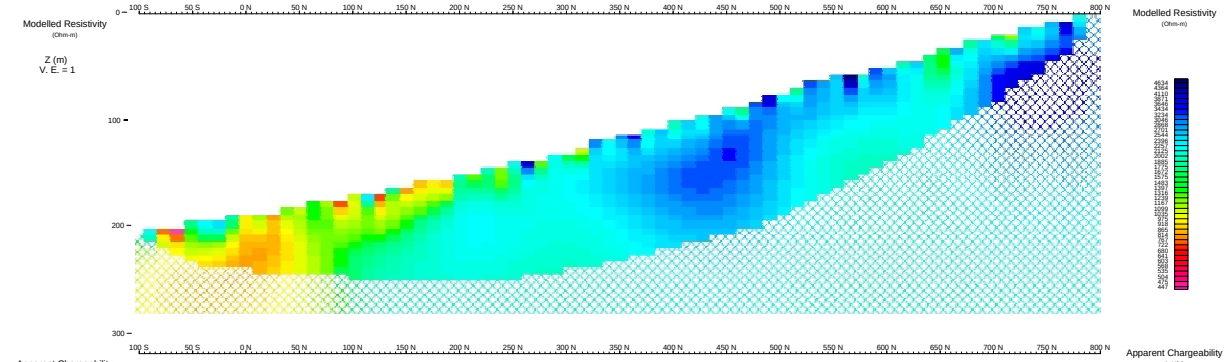
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
COMPOSITE SECTION L1200 E

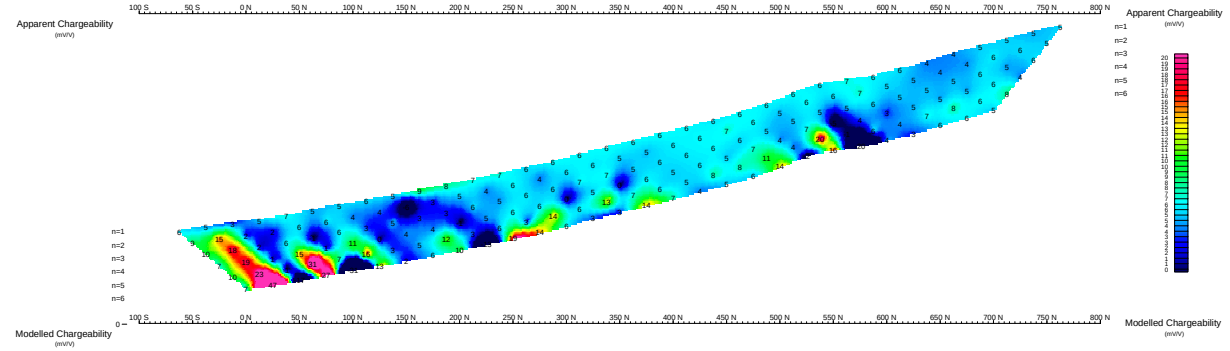
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

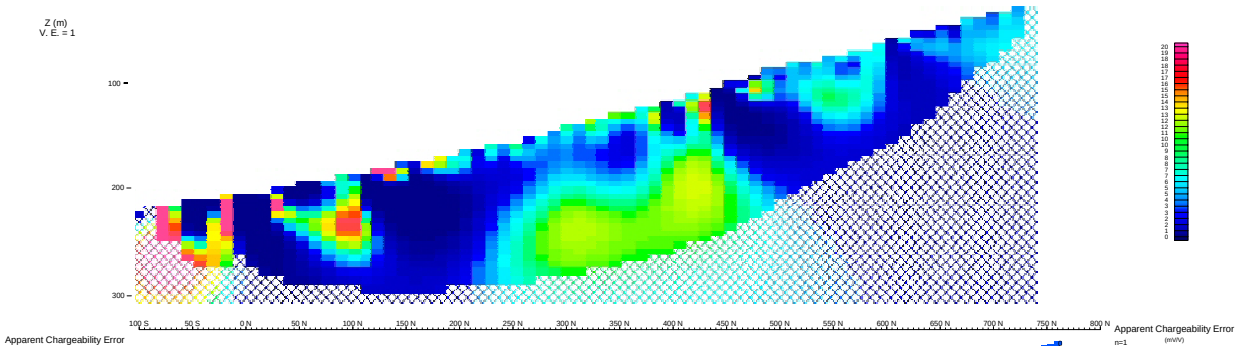
Mining District: Dawson
Projection: UTM Zone 7
Date 07 Feb 07
Appendix E

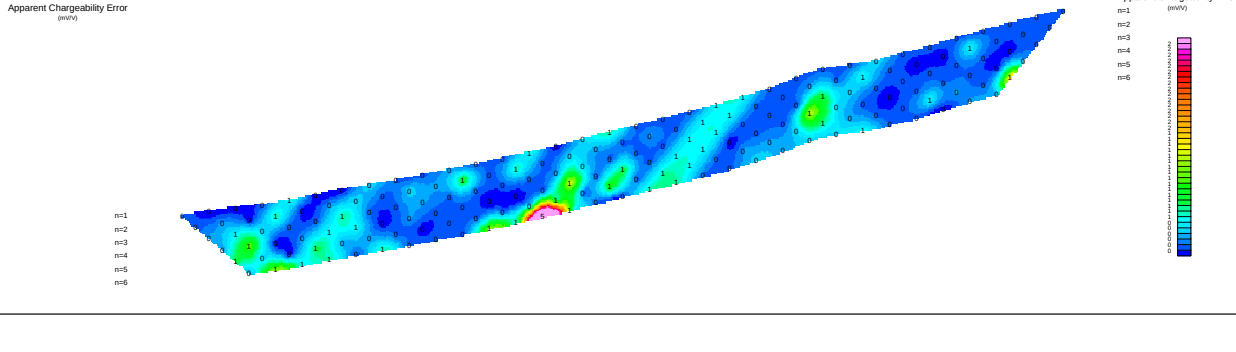
AURORA GEOSCIENCES LTD.





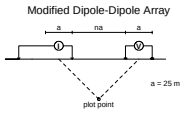




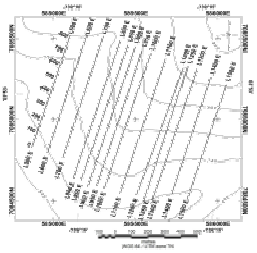


COMPOSITE SECTION
L1250 E

Modified Dipole-Dipole Array



Stationary electrode at 800N (moving S).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Eldorado 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

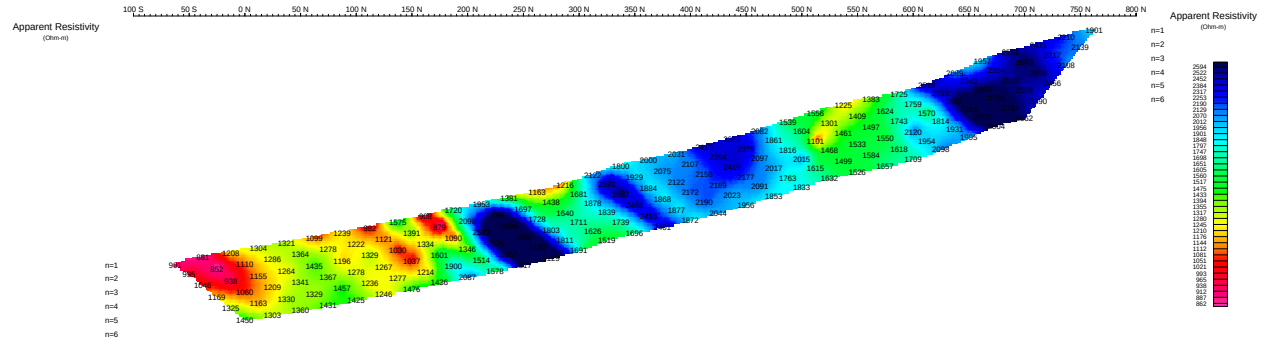
KLONDIKE STAR MINERAL CORP.

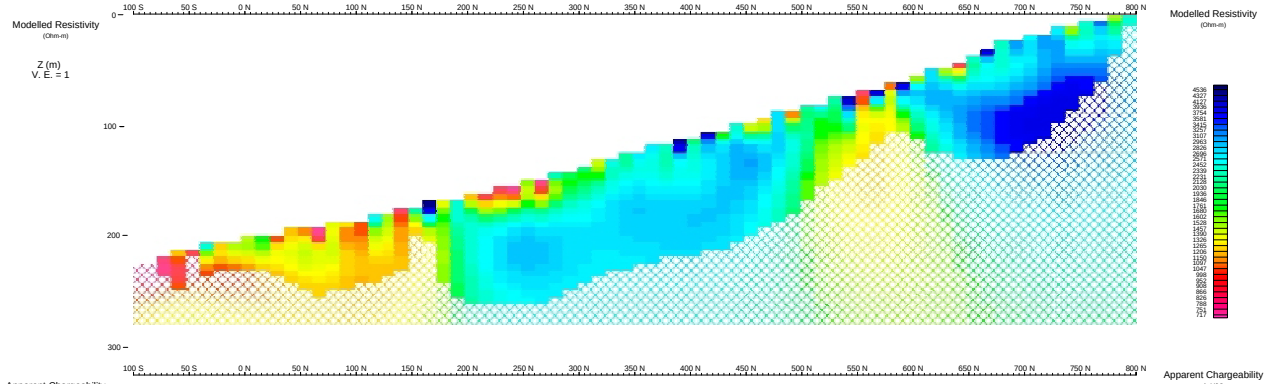
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
COMPOSITE SECTION L1250 E

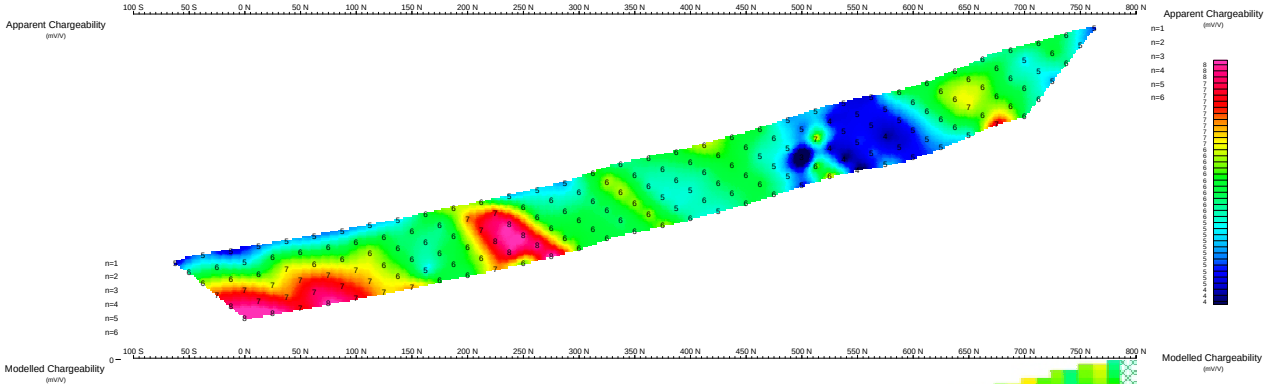
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

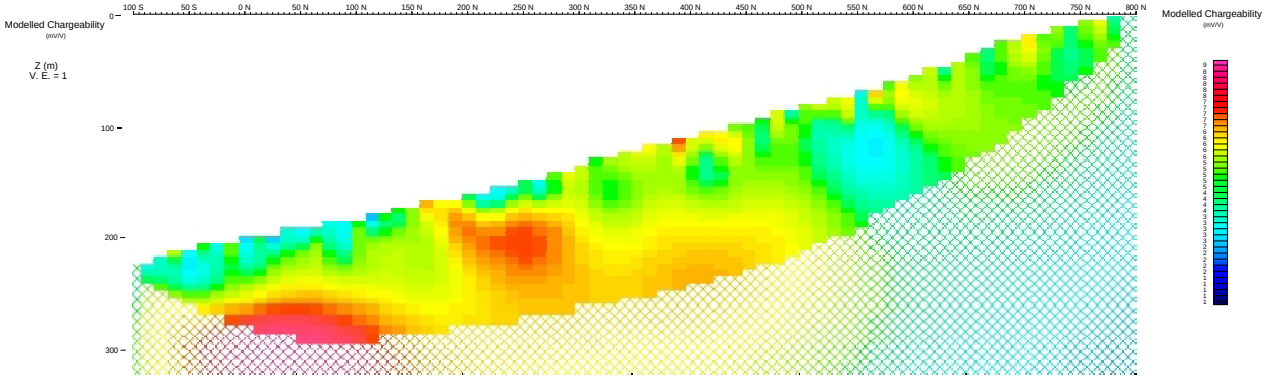
Mining District: Dawson
Projection: UTM Zone 7
Date 07 Feb 07
Appendix E

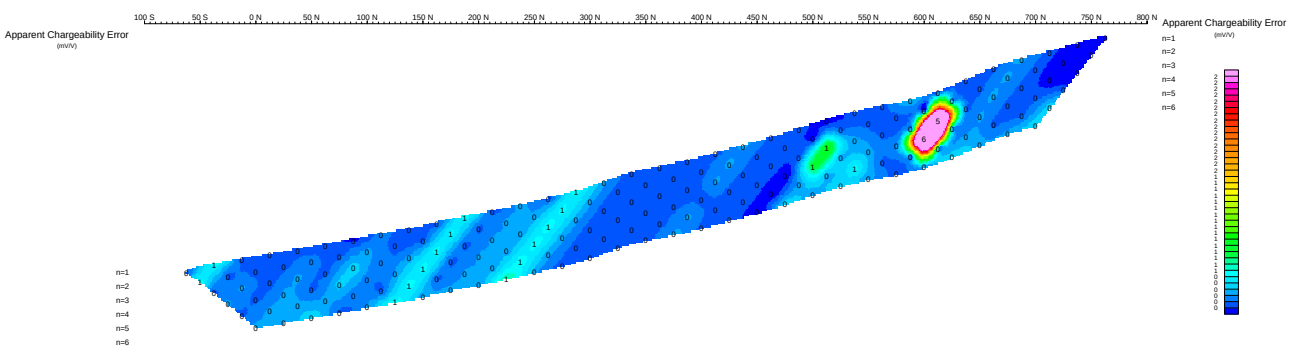
AURORA GEOSCIENCES LTD.





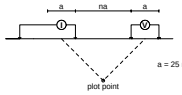




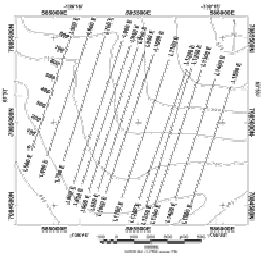


COMPOSITE SECTION
L1300 E

Modified Dipole-Dipole Array



Stationary electrode at 800N (moving S).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Eldorado 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

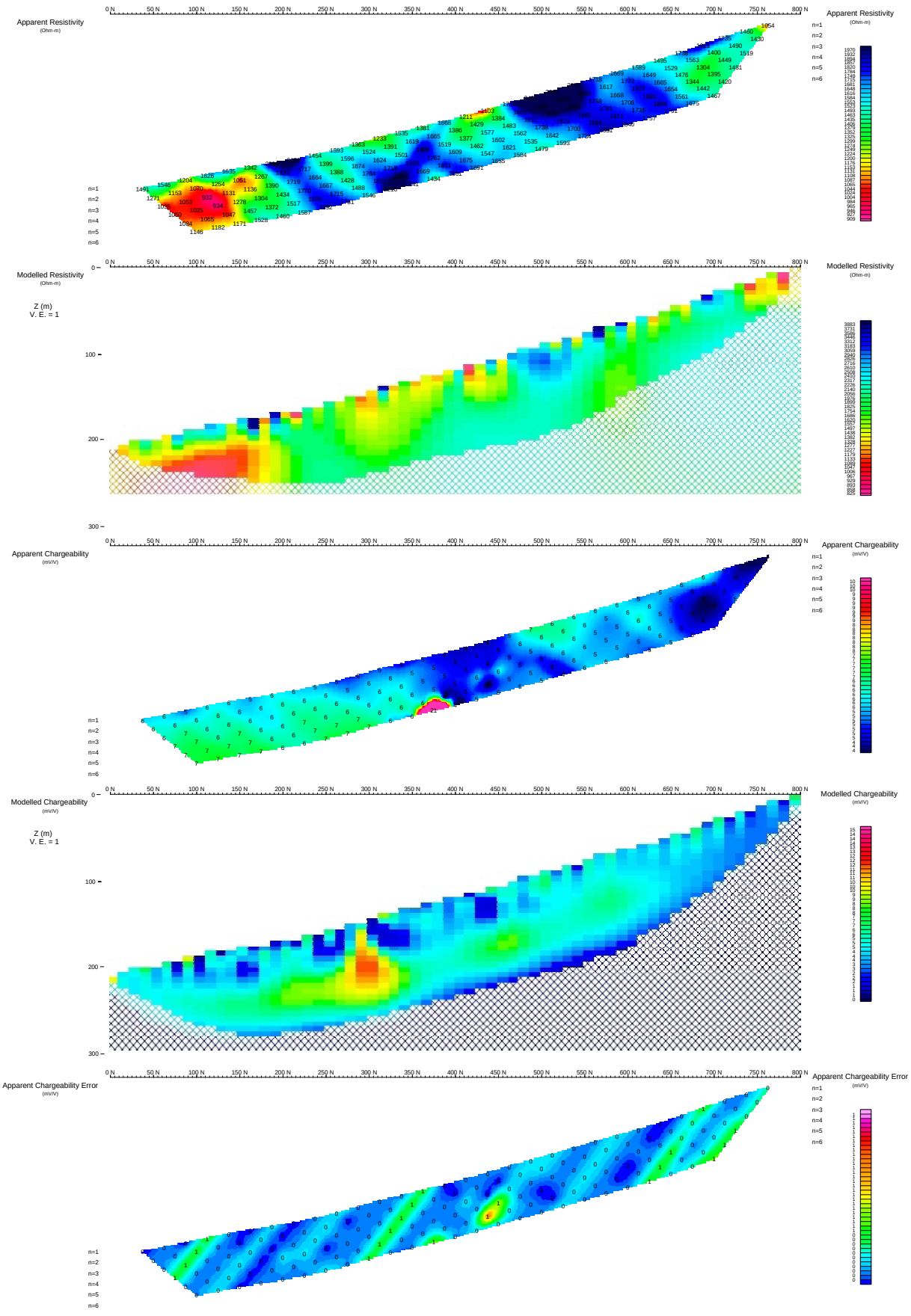
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
COMPOSITE SECTION L1300 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

Mining District: Dawson
Projection: UTM Zone 7
Date 07 Feb 07

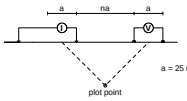
Appendix E

AURORA GEOSCIENCES LTD.

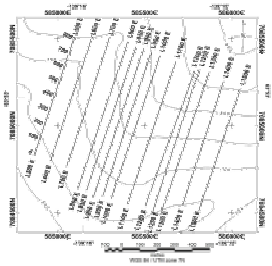


COMPOSITE SECTION
L1400 E

Modified Dipole-Dipole Array



Stationary electrode at 800N (moving S).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Eldorado 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



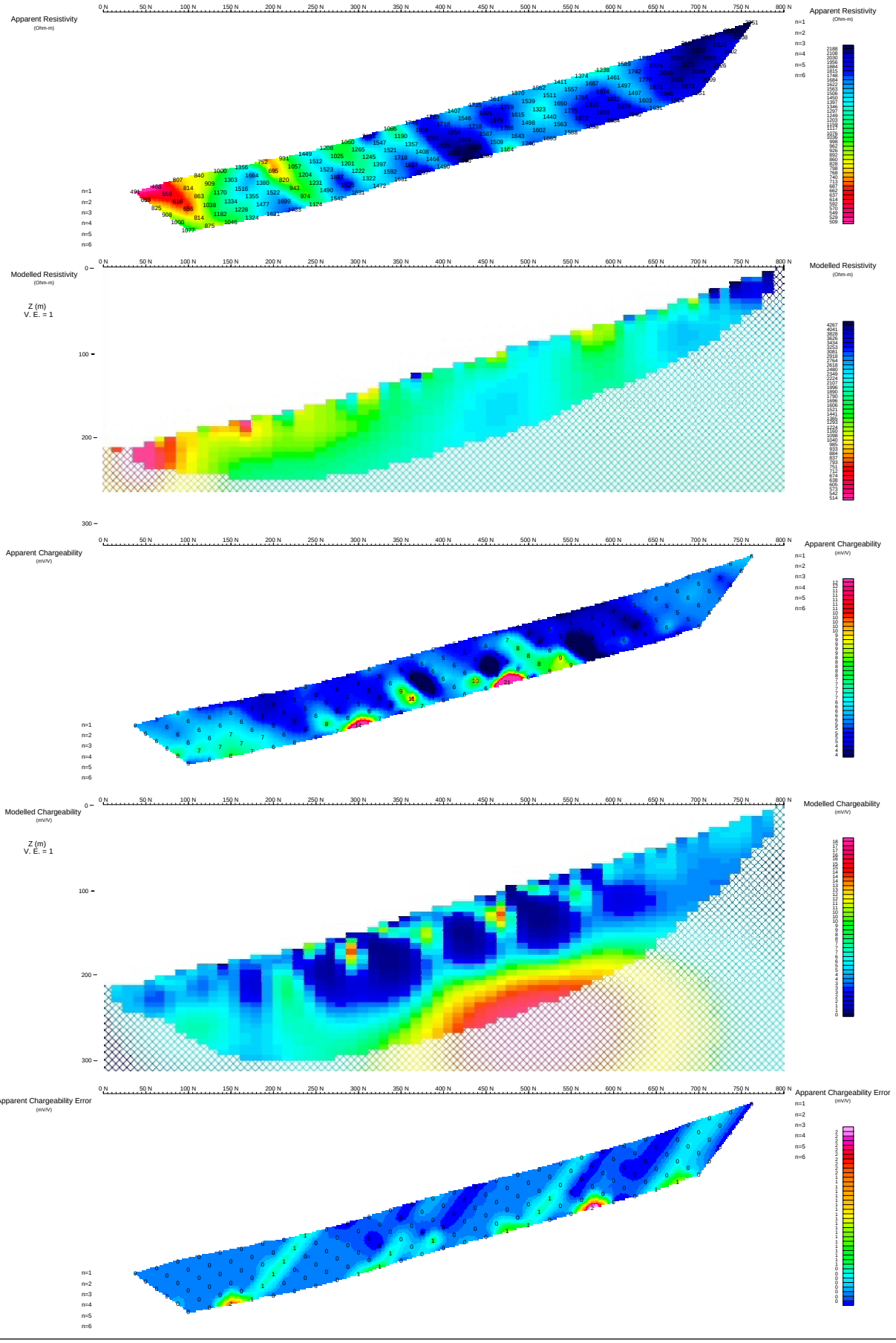
Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GIRD
COMPOSITE SECTION L1400 E

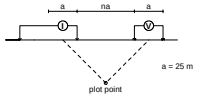
NTS: 115 O/14 — Mining District: Dawson
Datum: NAD 83 — Projection: UTM Zone 7
Job: KDS-06-02-YT — Date 07 Feb 07
Drawn by: A. Lebel — **Appendix E**

AURORA GEOSCIENCES LTD.

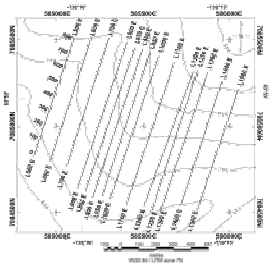


COMPOSITE SECTION
L1500 E

Modified Dipole-Dipole Array



Stationary electrode at 800N (moving S).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Eldorado 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

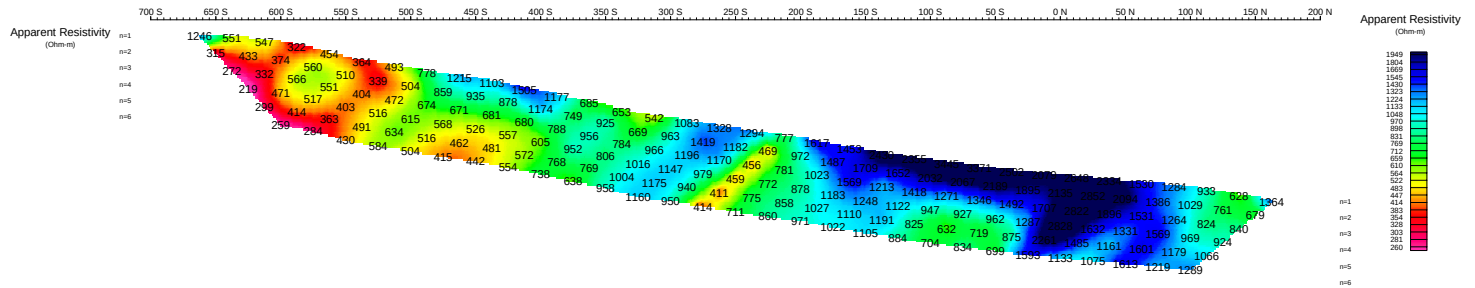
Vertical Exaggeration = 1.0

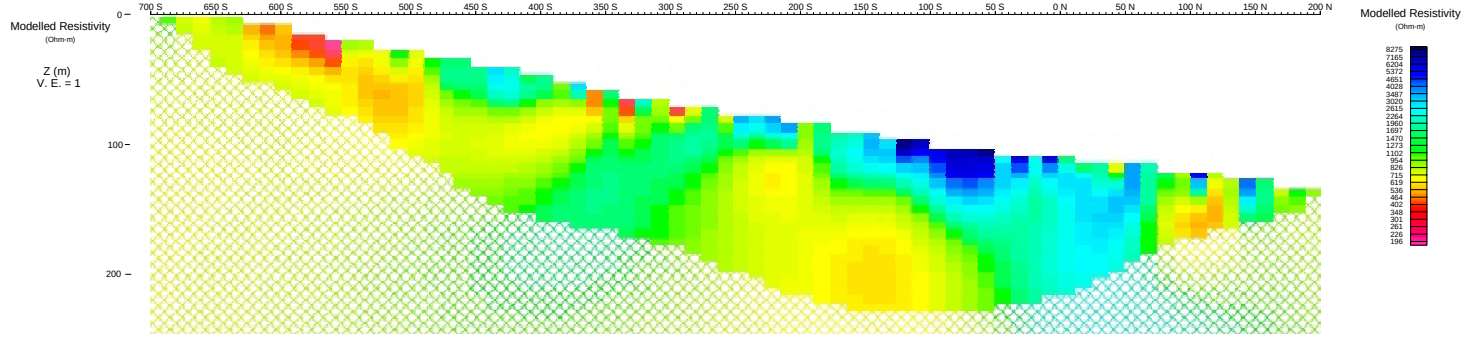
KLONDIKE STAR MINERAL CORP.

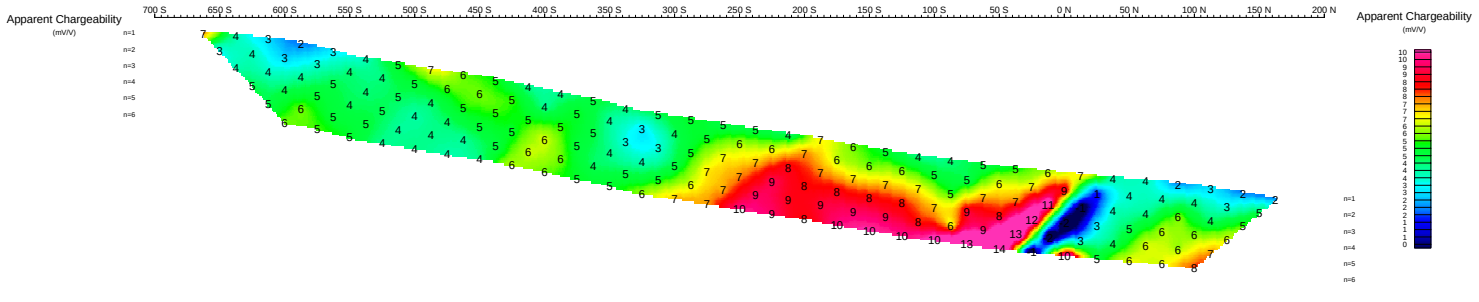
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GIRD
COMPOSITE SECTION L1500 E

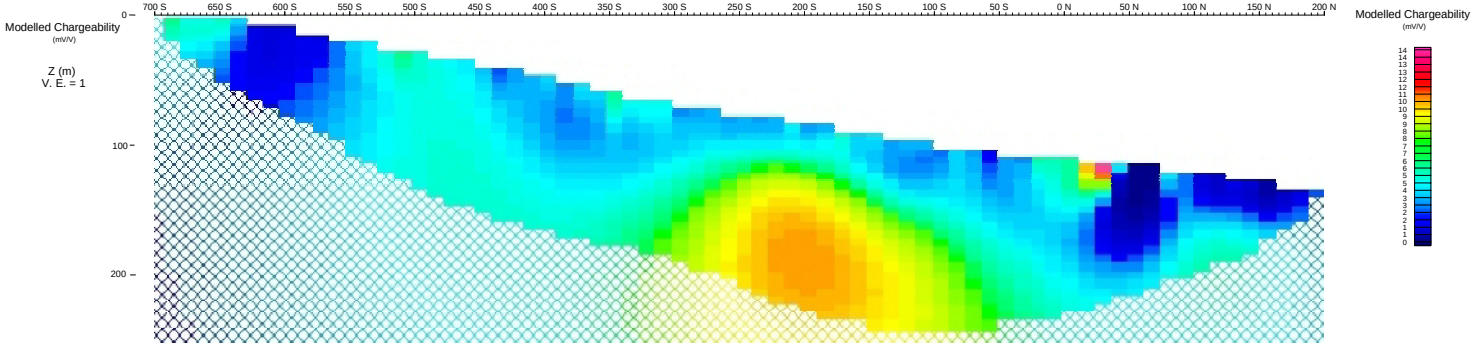
NTS: 115 O/14 — Mining District: Dawson
Datum: NAD 83 — Projection: UTM Zone 7
Job: KDS-06-02-YT — Date 07 Feb 07
Drawn by: A. Lebel — **Appendix E**

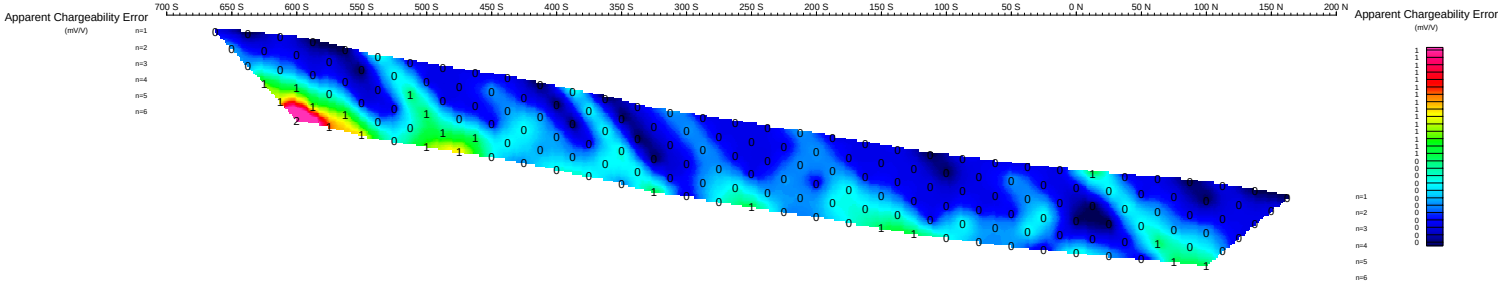
AURORA GEOSCIENCES LTD.





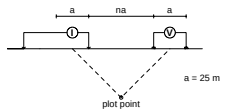




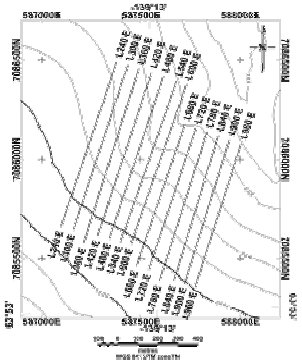


COMPOSITE SECTION
L240 E

Modified Dipole-Dipole Array



Stationary electrode at 700S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

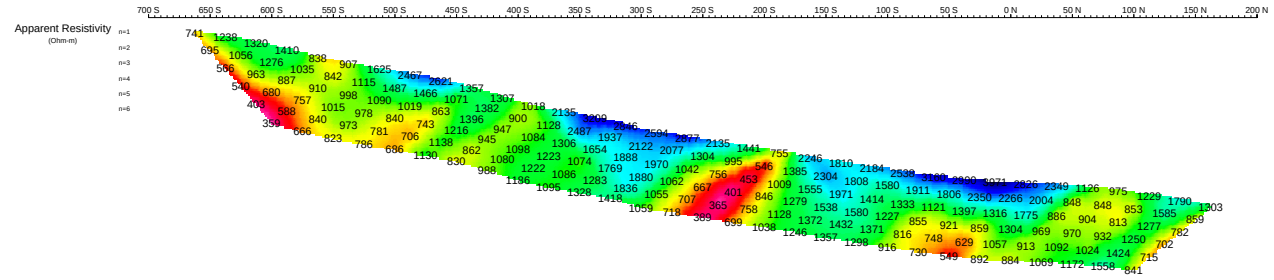
KLONDIKE STAR MINERAL CORP.

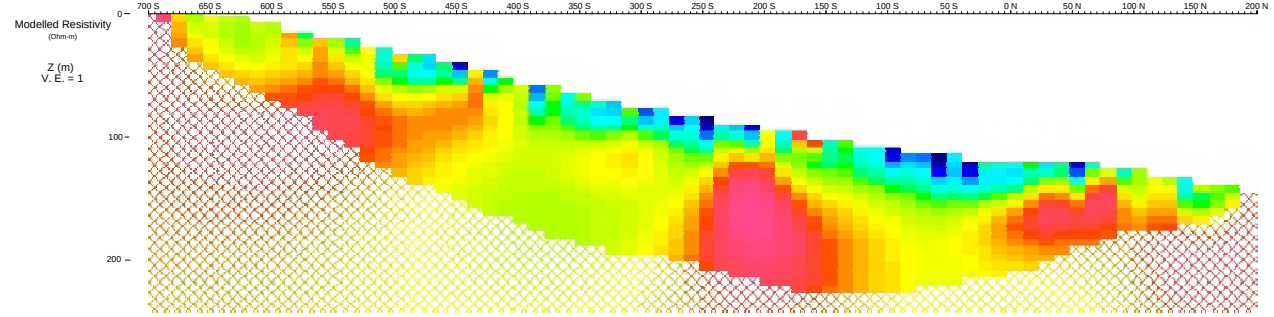
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L240 E

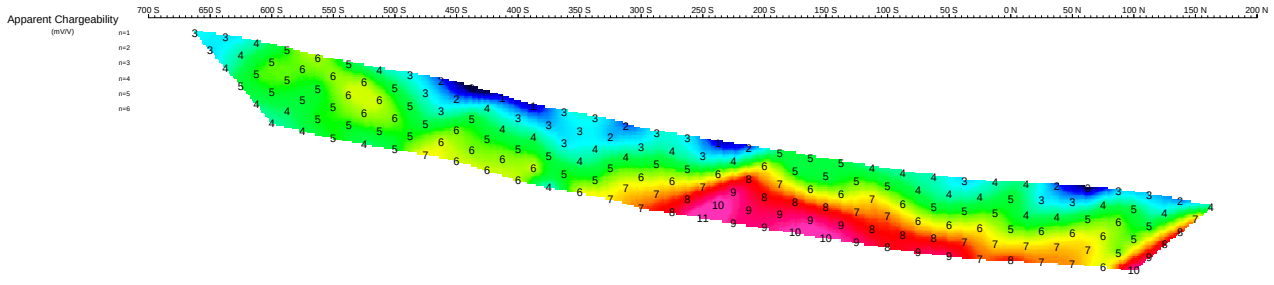
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

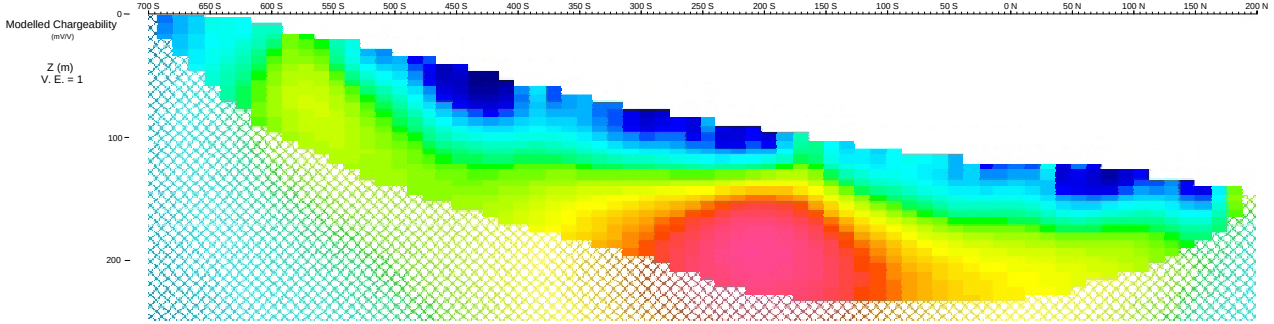
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07
Appendix E

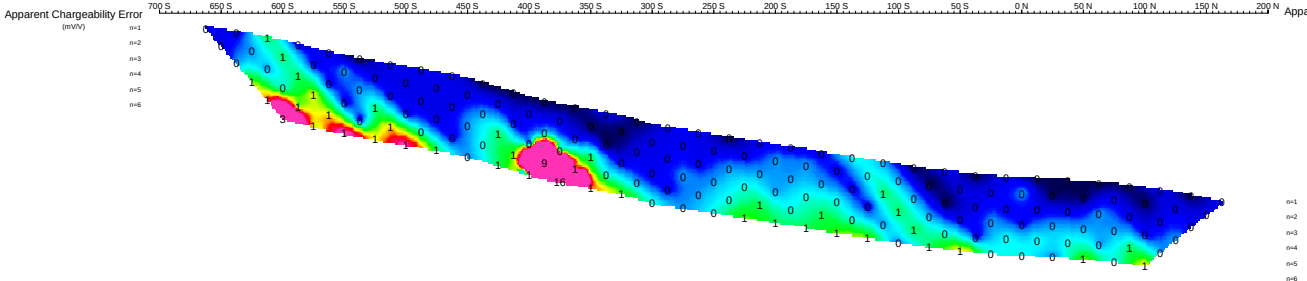
AURORA GEOSCIENCES LTD.





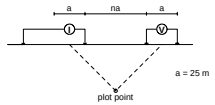




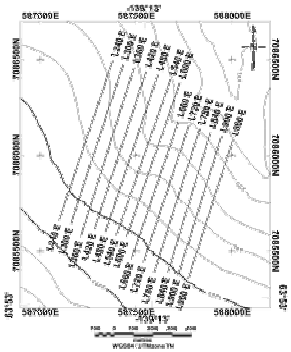


COMPOSITE SECTION
L300 E

Modified Dipole-Dipole Array



Stationary electrode at 700S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

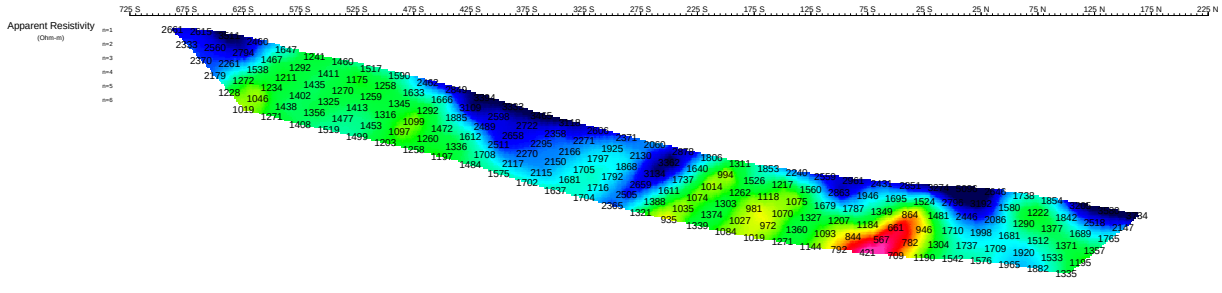
KLONDIKE STAR MINERAL CORP.

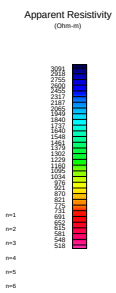
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L300 E

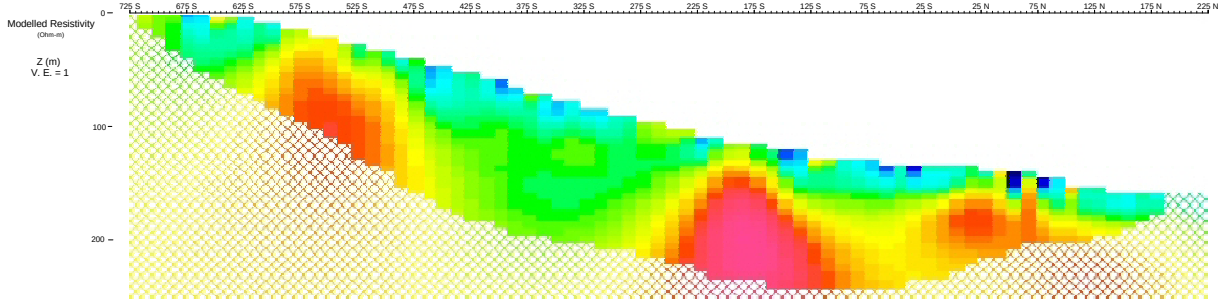
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

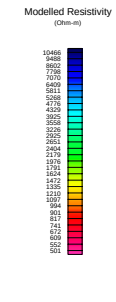
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07
Appendix E

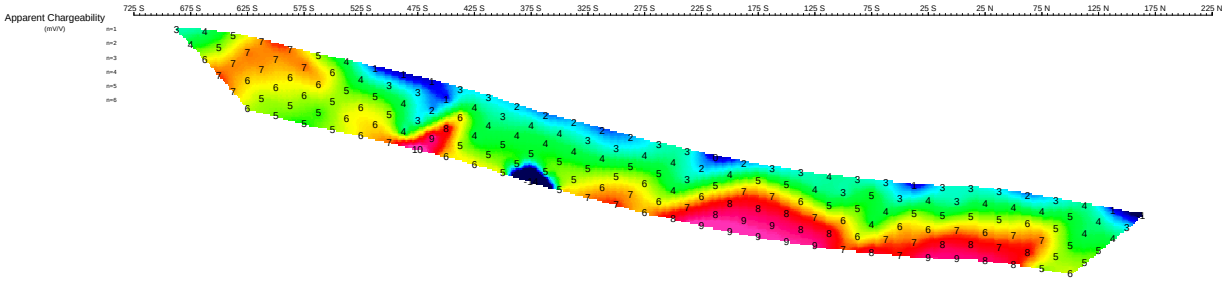
AURORA GEOSCIENCES LTD.

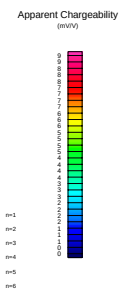


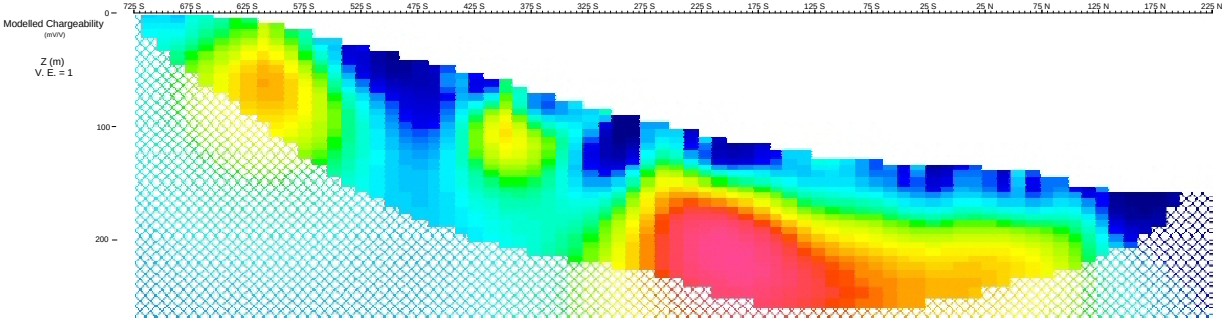


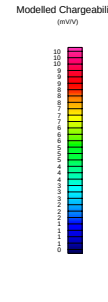


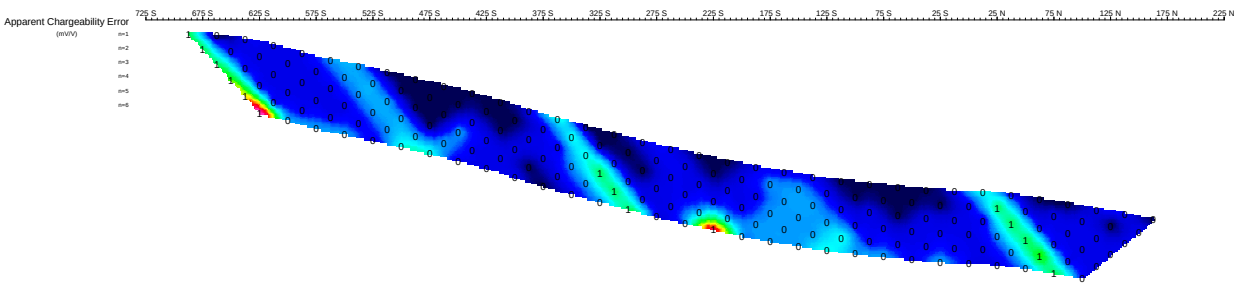


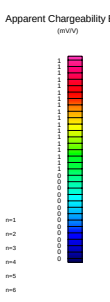






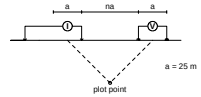




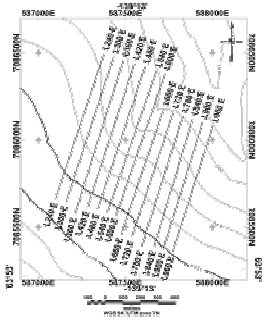


COMPOSITE SECTION
L360 E

Modified Dipole-Dipole Array



Stationary electrode at 725S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



Vertical Exaggeration = 1.0

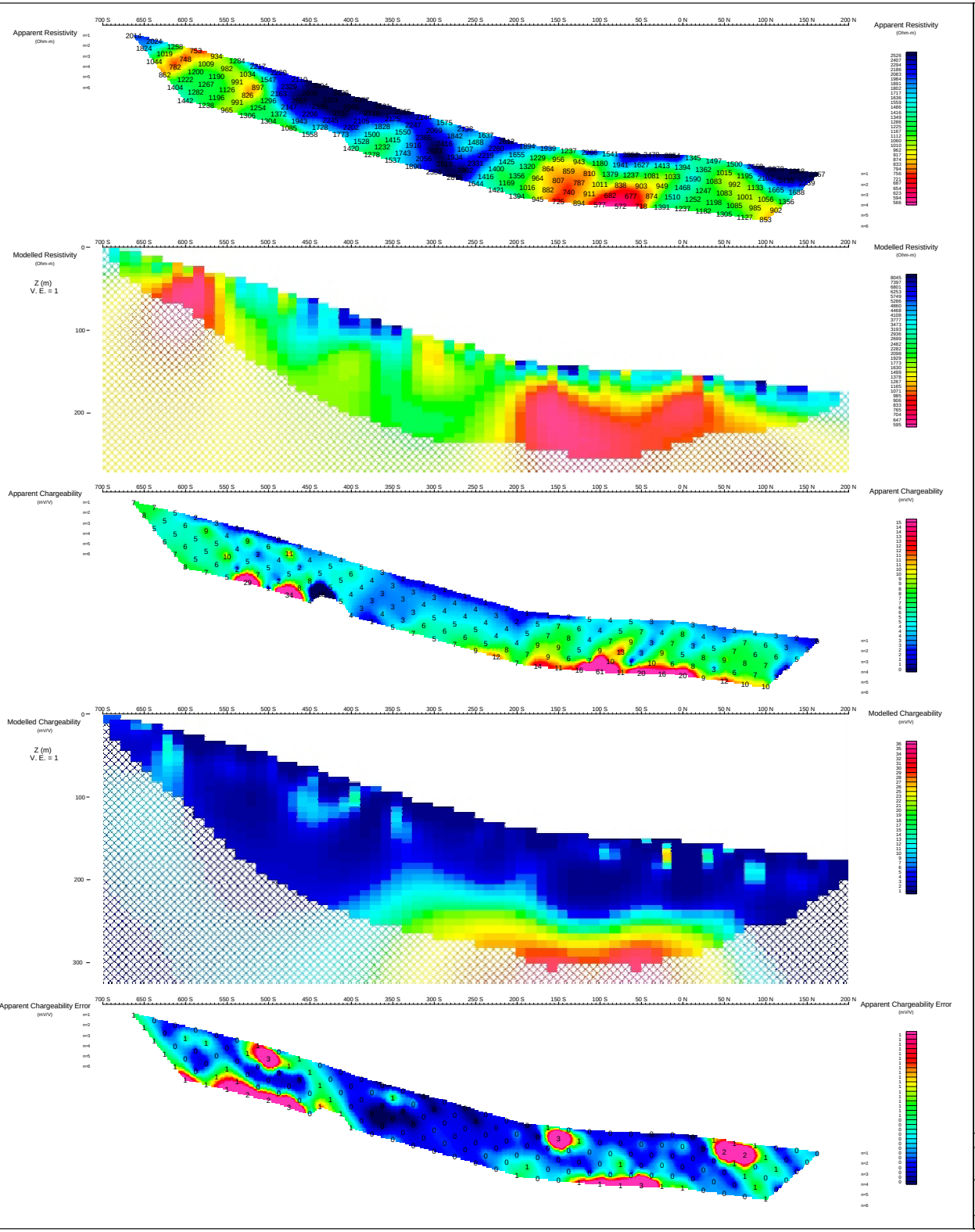
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L360 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

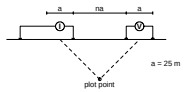
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07
Appendix E

AURORA GEOSCIENCES LTD.

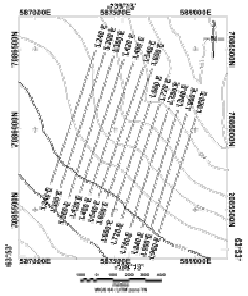


COMPOSITE SECTION
L420 E

Modified Dipole-Dipole Array



Stationary electrode at 700S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

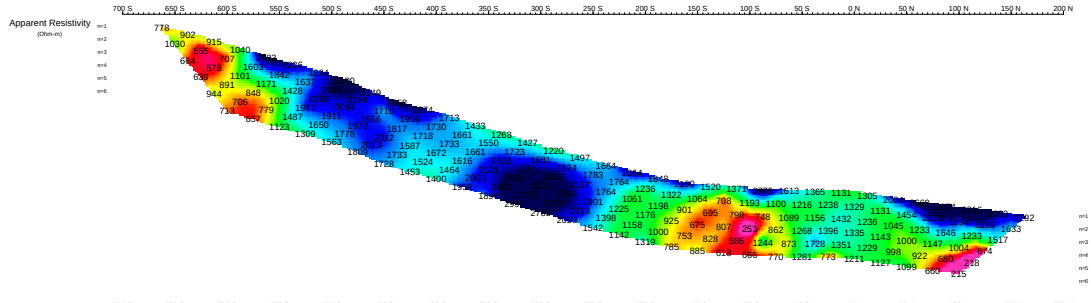
KLONDIKE STAR MINERAL CORP.

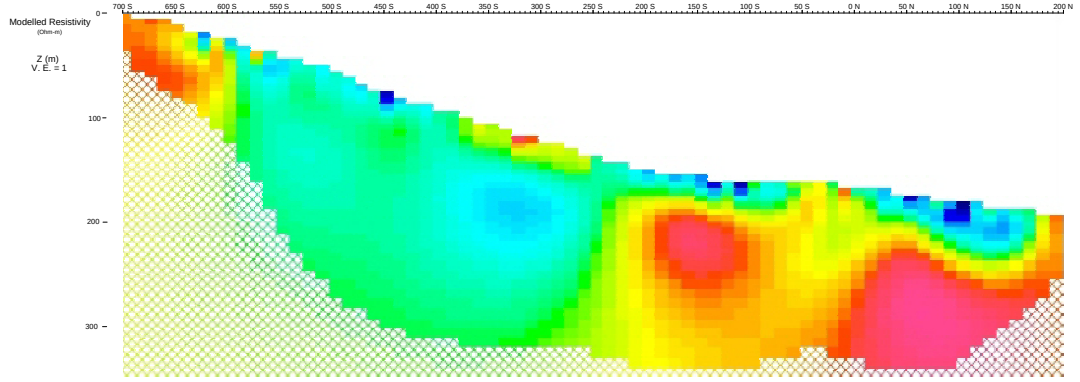
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L420 E

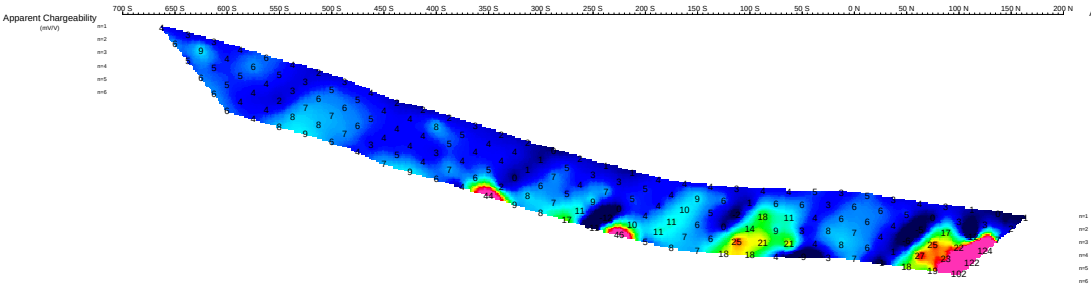
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

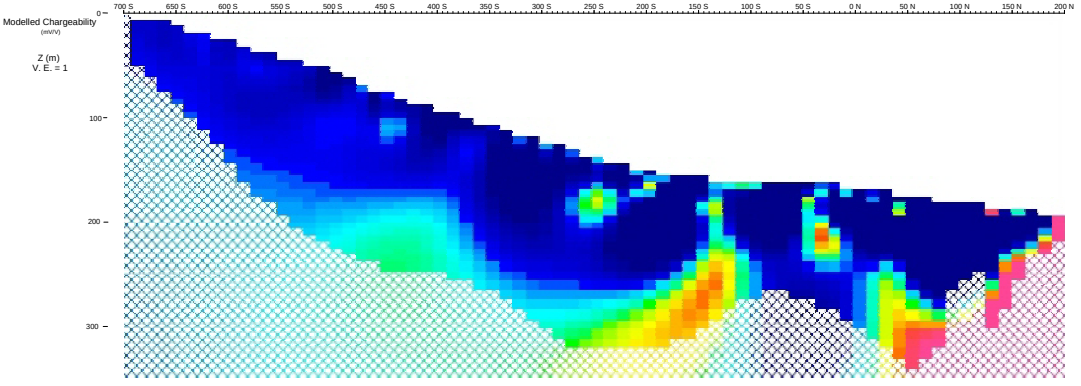
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07
Appendix E

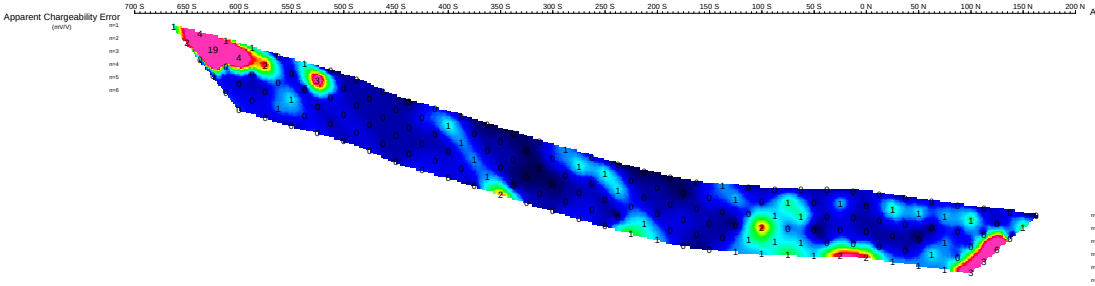
AURORA GEOSCIENCES LTD.





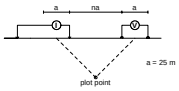




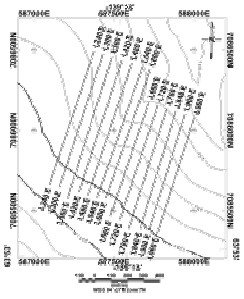


COMPOSITE SECTION
L480 E

Modified Dipole-Dipole Array



Stationary electrode at 700S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

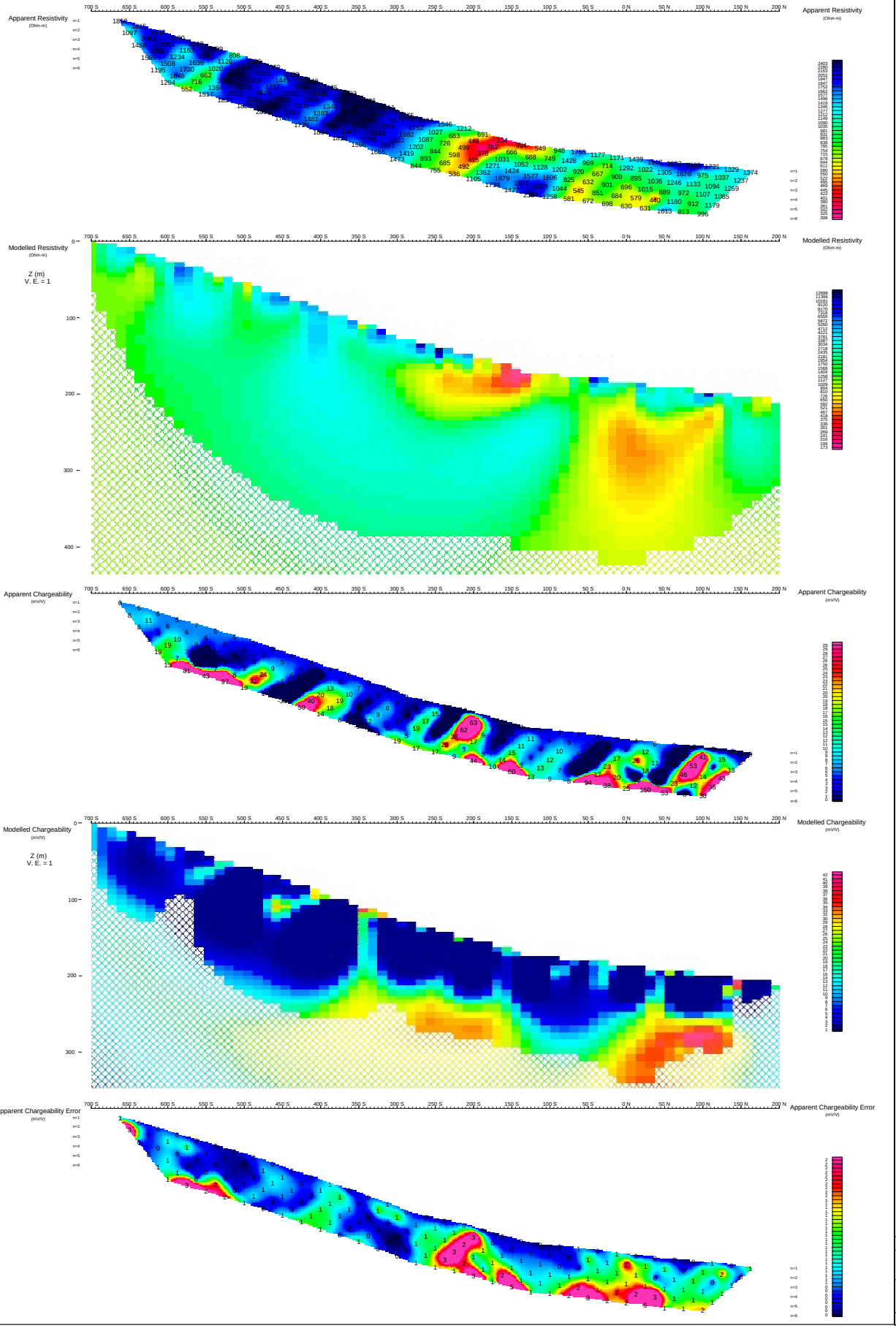
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L480 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07
Appendix E

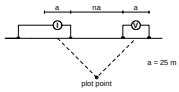
AURORA GEOSCIENCES LTD.



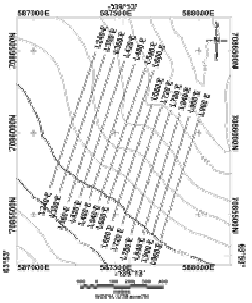
COMPOSITE SECTION

L540 E

Modified Dipole-Dipole Array



Stationary electrode at 700S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

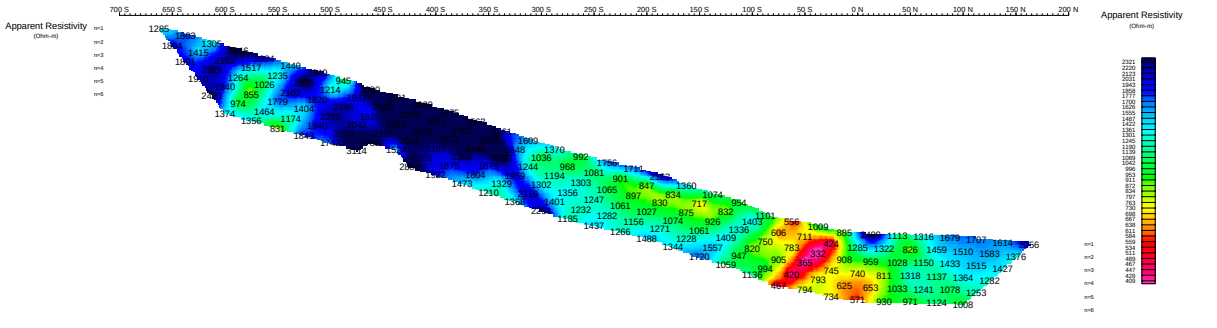
KLONDIKE STAR MINERAL CORP.

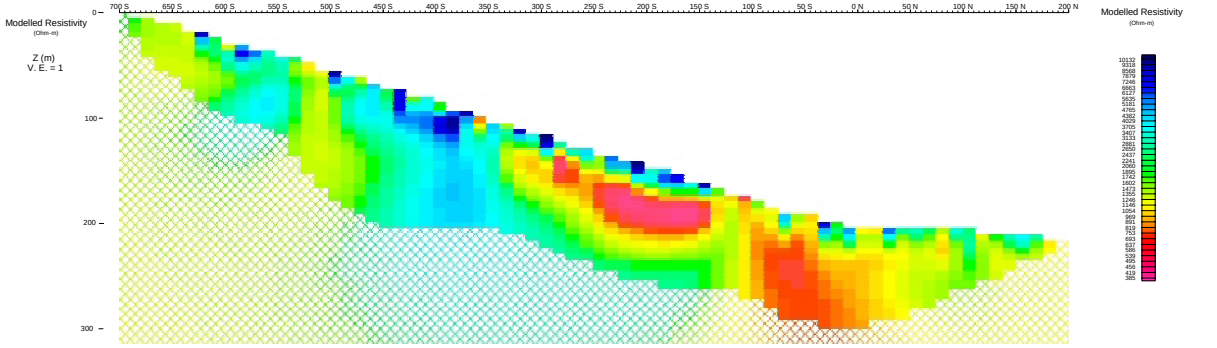
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L540 E

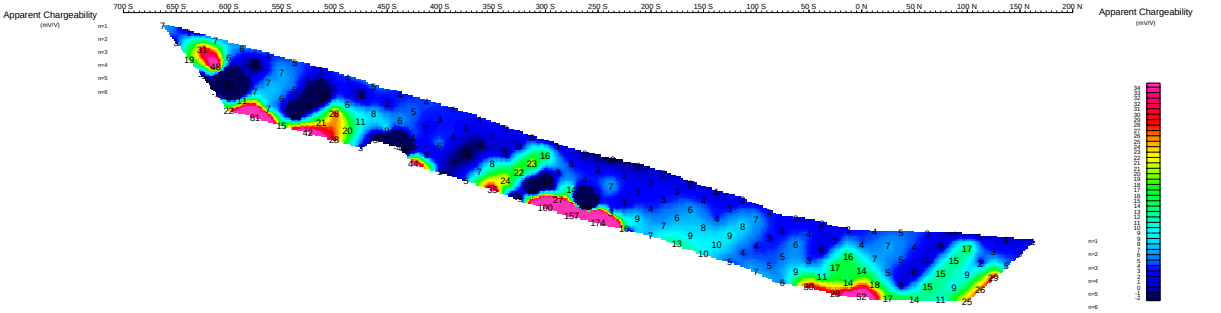
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

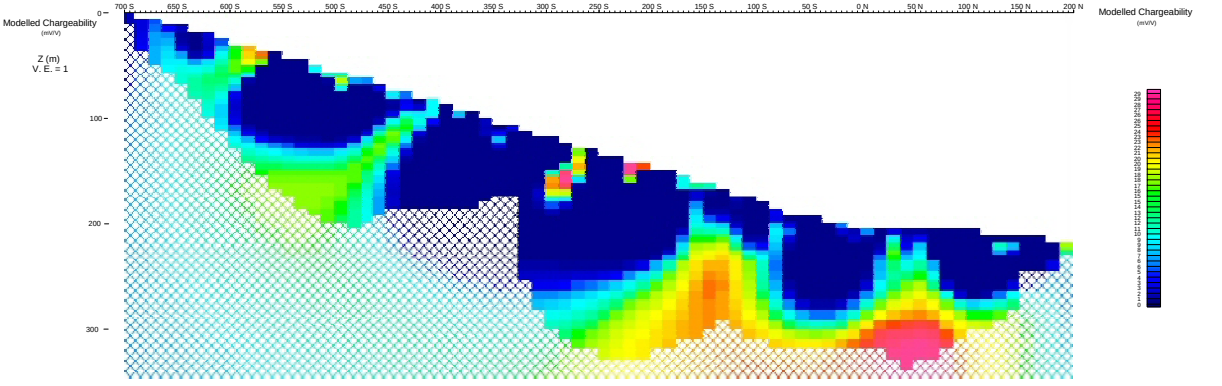
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07
Appendix E

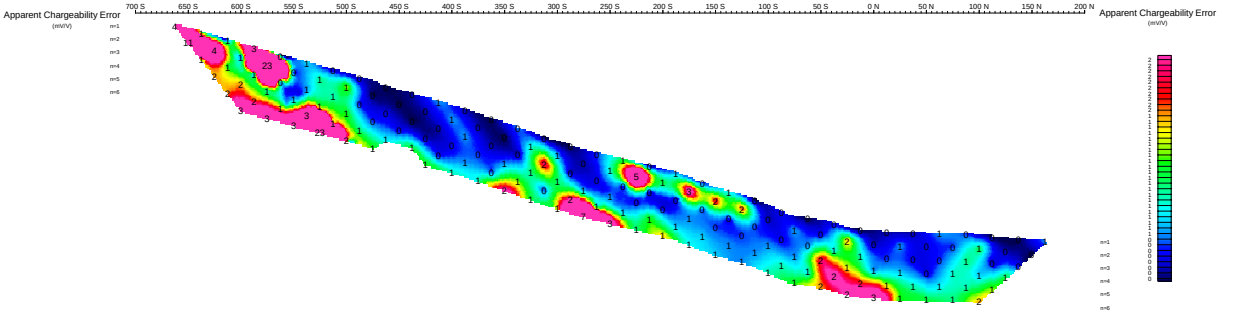
AURORA GEOSCIENCES LTD.





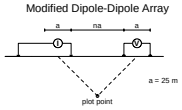




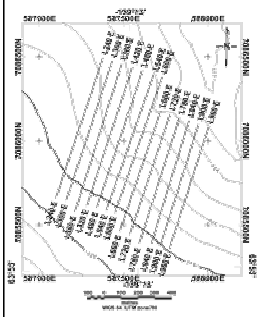


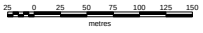
COMPOSITE SECTION
L600 E

Modified Dipole-Dipole Array



Stationary electrode at 700S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





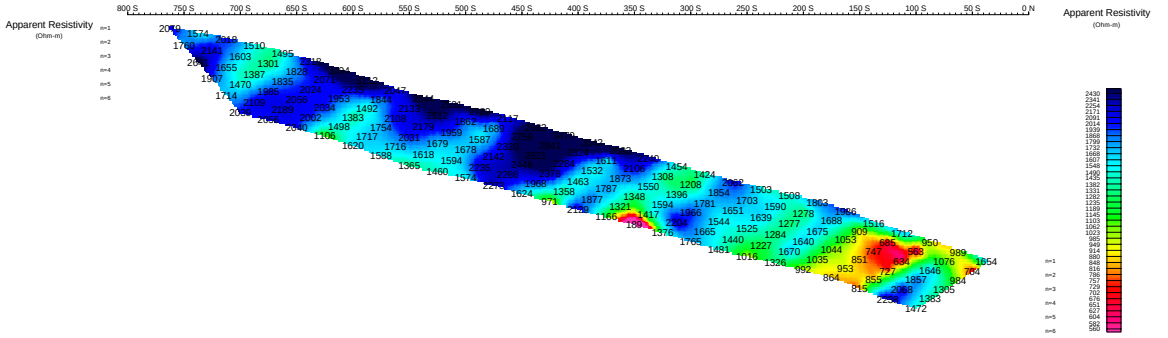
Vertical Exaggeration = 1.0

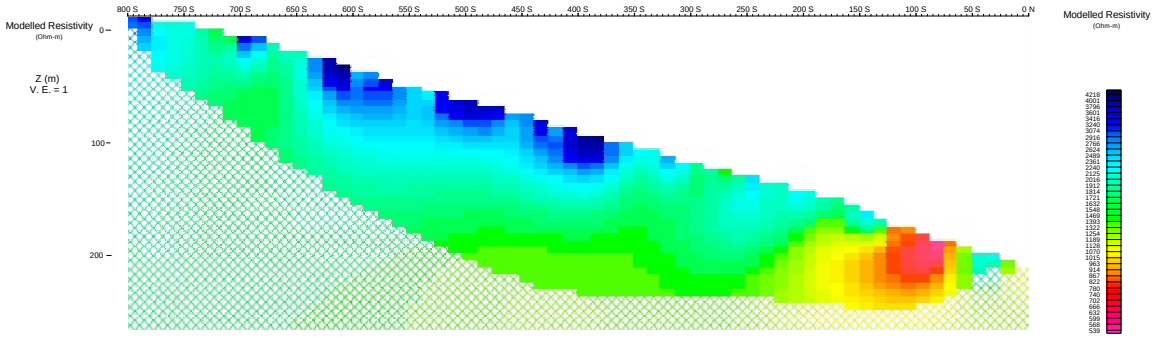
KLONDIKE STAR MINERAL CORP.

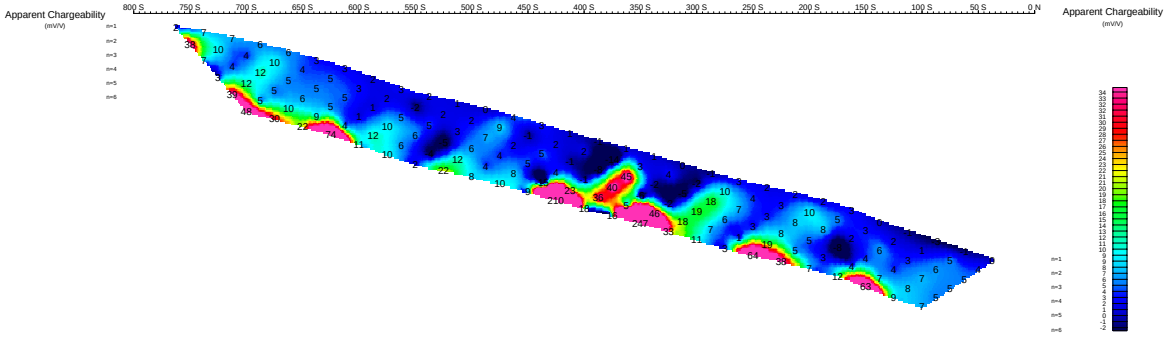
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L600 E

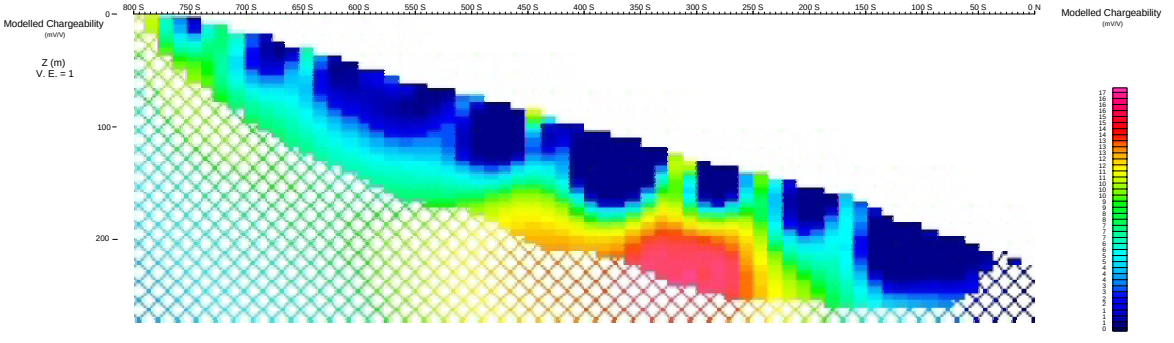
NTS: 115 O/14 — Mining District: Dawson
Datum: NAD 83 — Projection: UTM Zone 7
Job: KDS-06-02-YT — Date 08 Feb 07
Drawn by: HDS — **Appendix E**

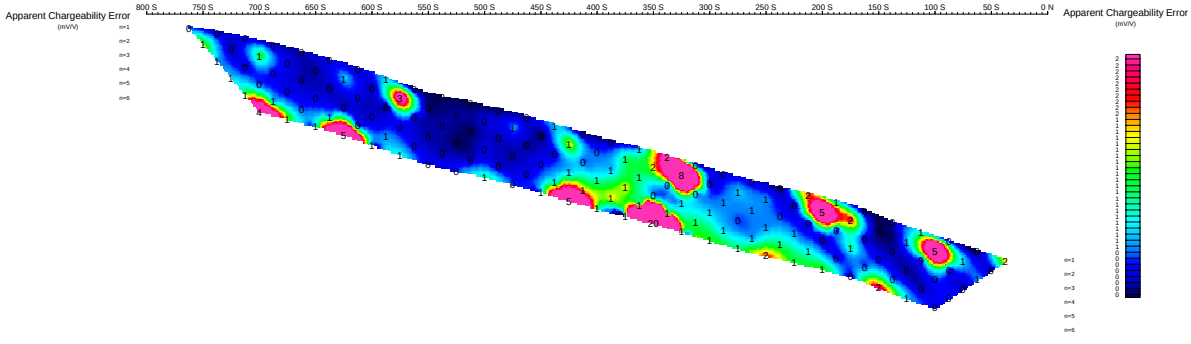
AURORA GEOSCIENCES LTD.





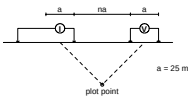




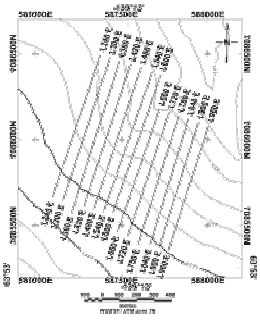


COMPOSITE SECTION
L660 E

Modified Dipole-Dipole Array



Stationary electrode at 800S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

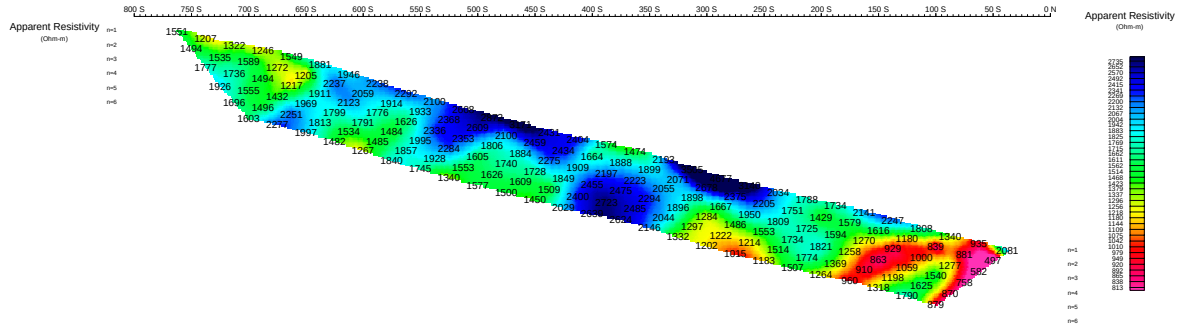
KLONDIKE STAR MINERAL CORP.

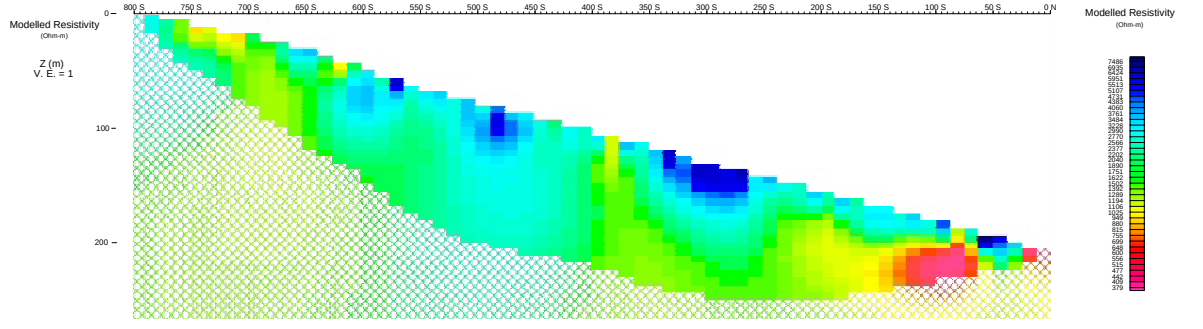
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L660 E

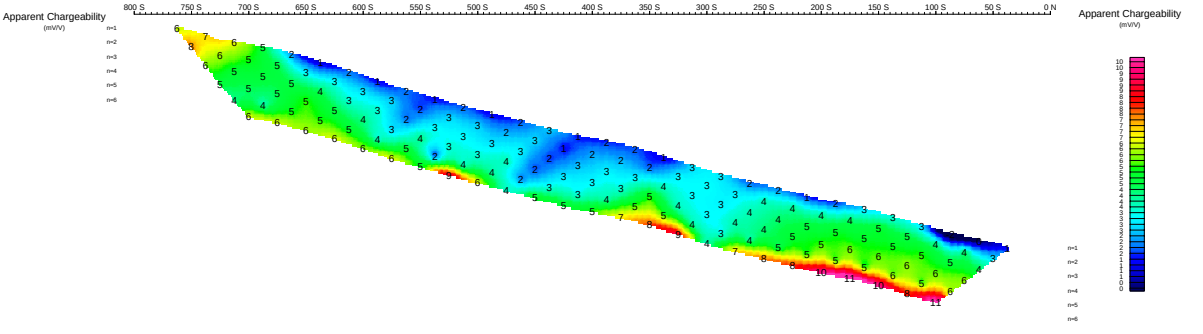
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

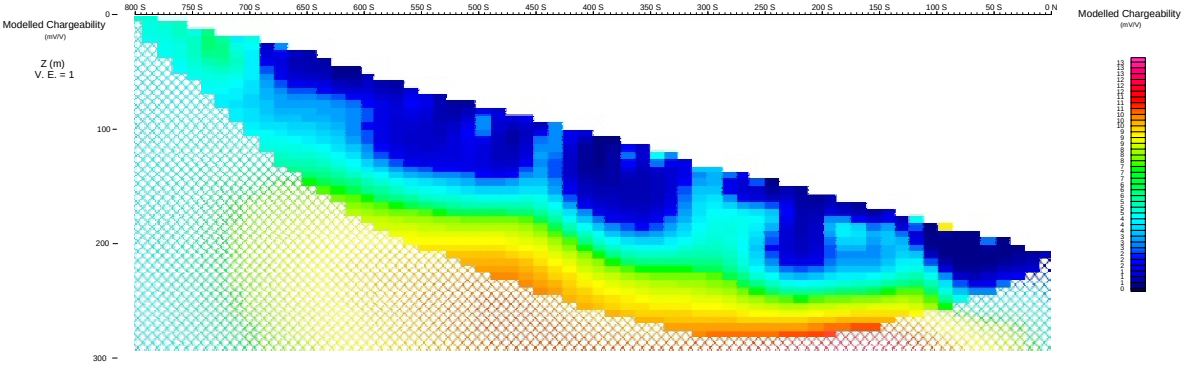
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07
Appendix E

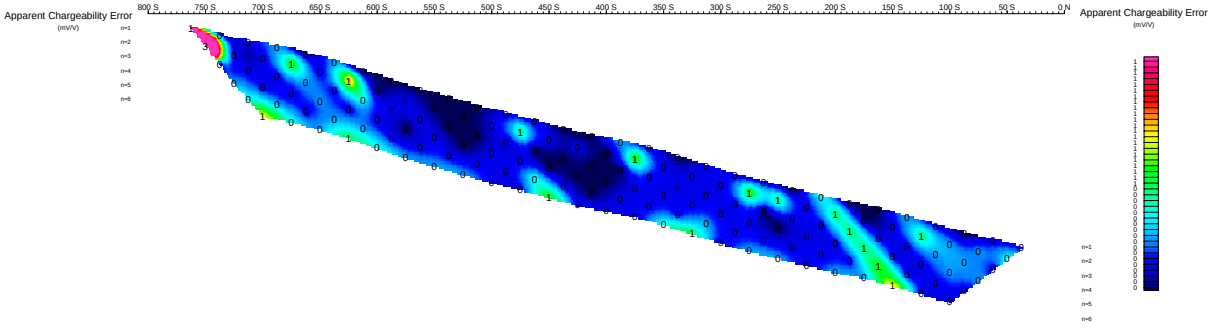
AURORA GEOSCIENCES LTD.





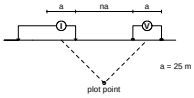




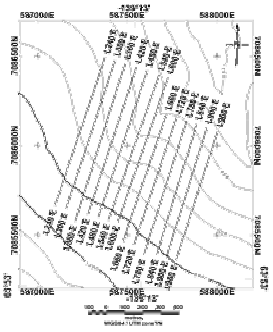


COMPOSITE SECTION
L720 E

Modified Dipole-Dipole Array



Stationary electrode at 800N (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

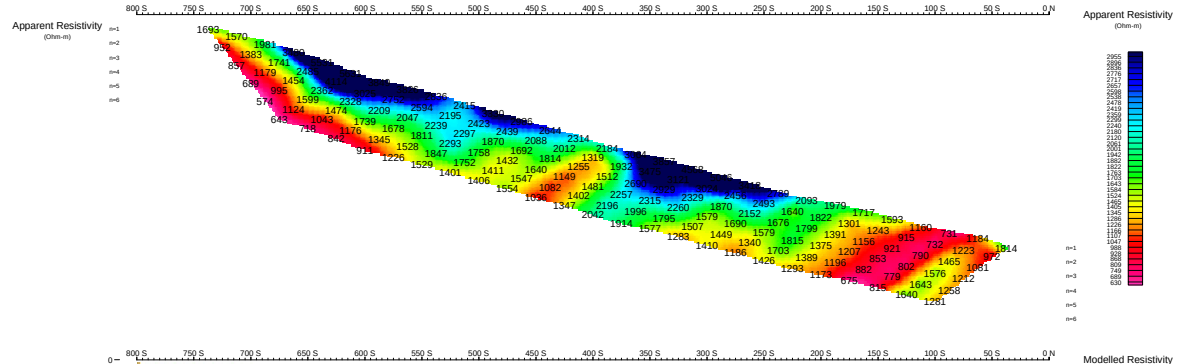
KLONDIKE STAR MINERAL CORP.

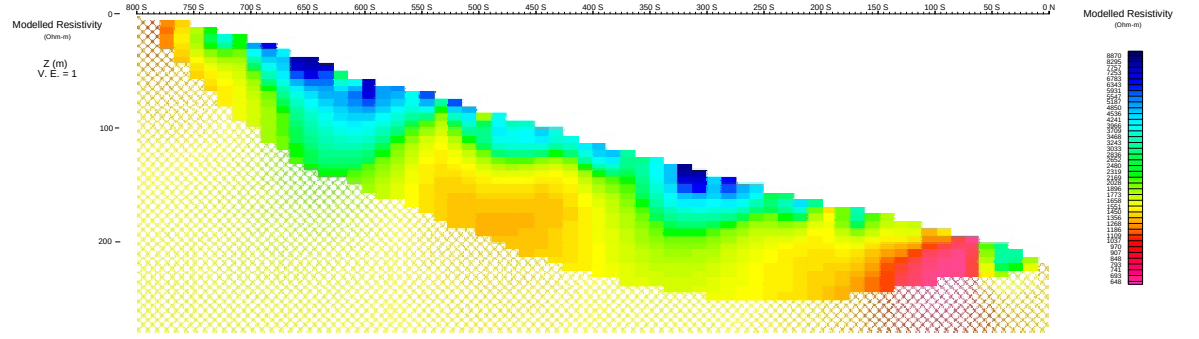
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L720 E

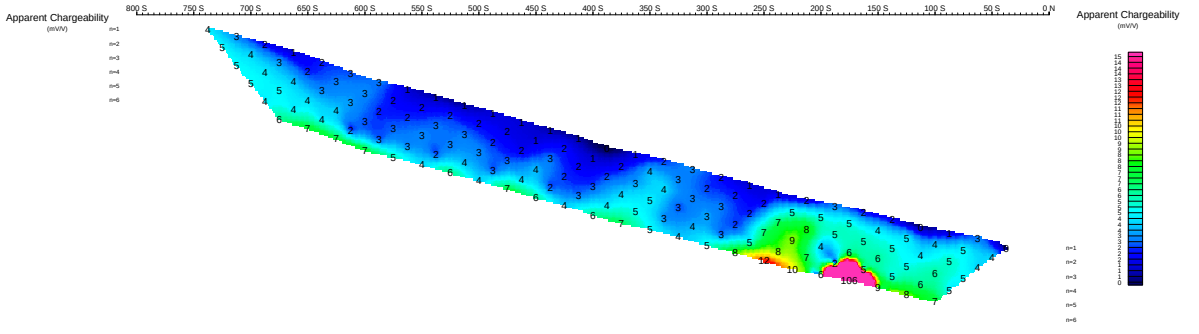
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

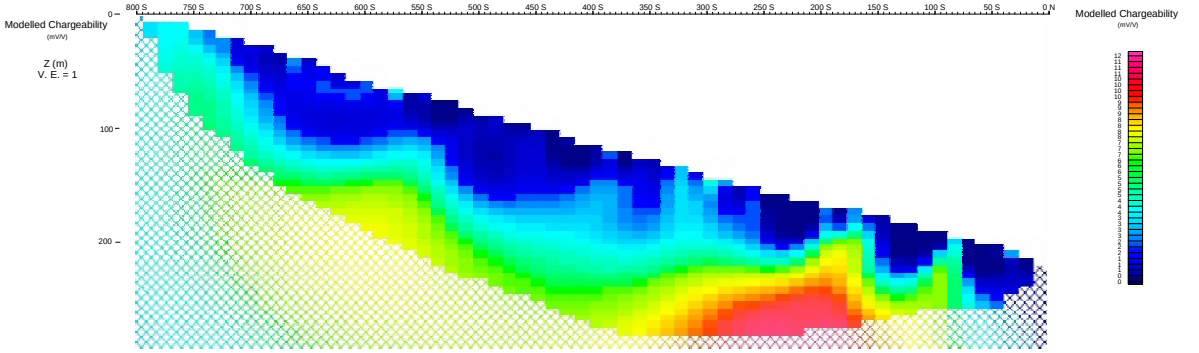
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07
Appendix E

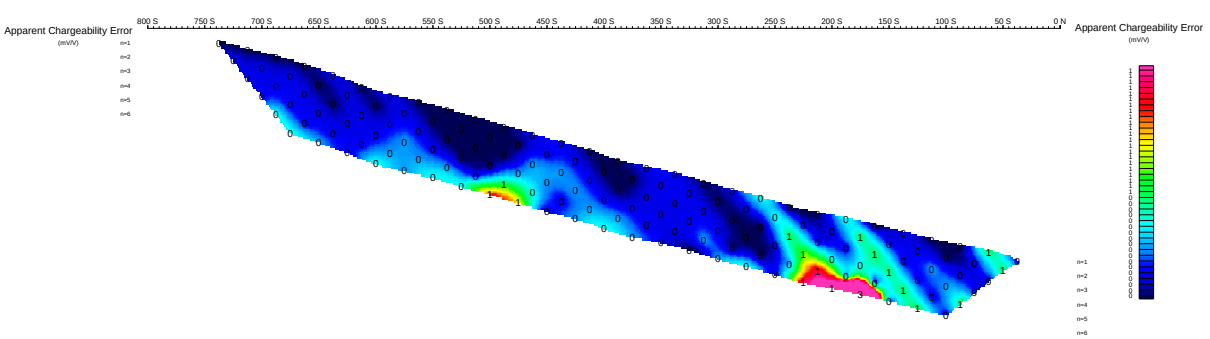
AURORA GEOSCIENCES LTD.





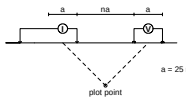




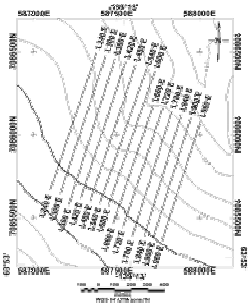


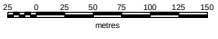
COMPOSITE SECTION
L780 E

Modified Dipole-Dipole Array



Stationary electrode at 800S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

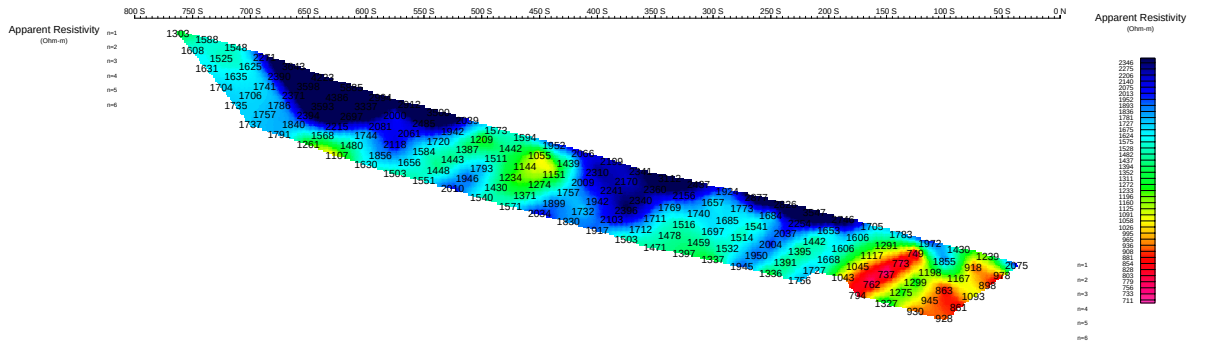
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L780 E

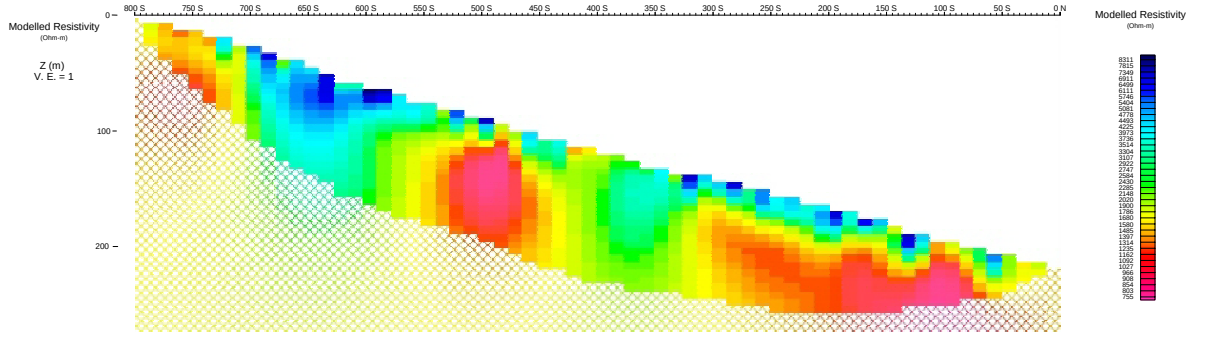
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

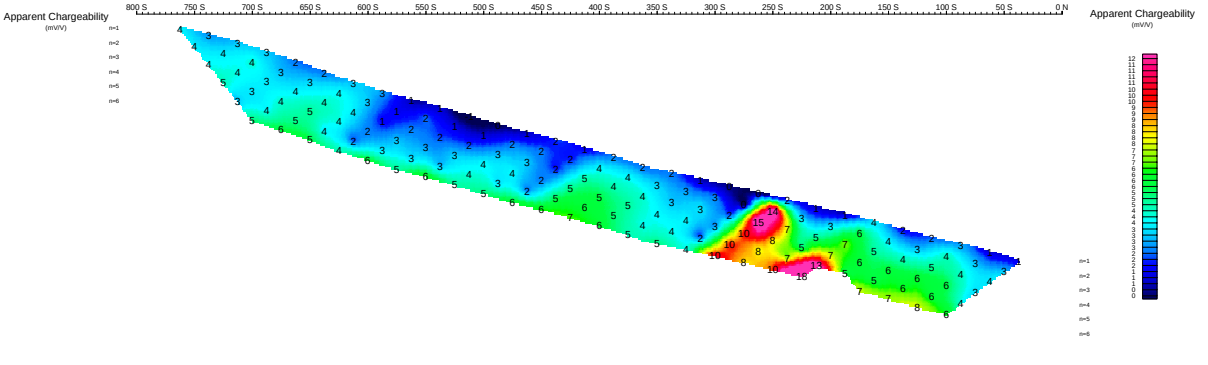
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07

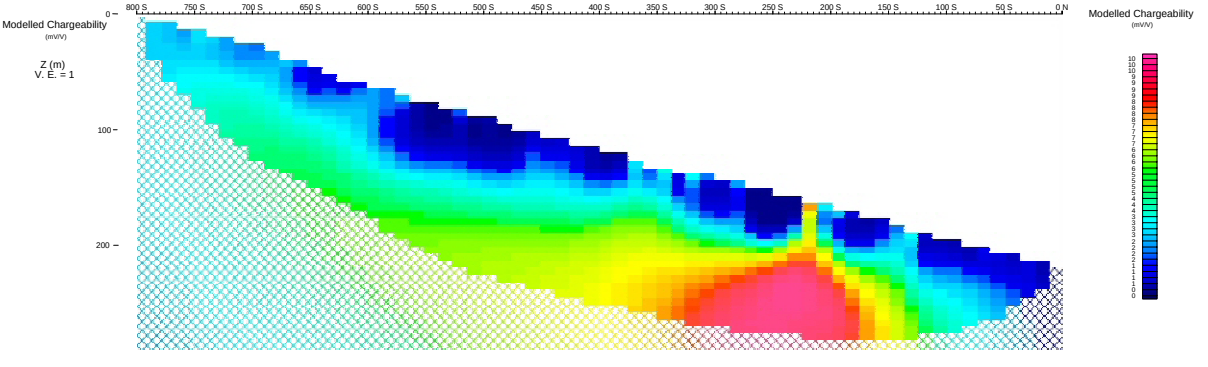
Appendix E

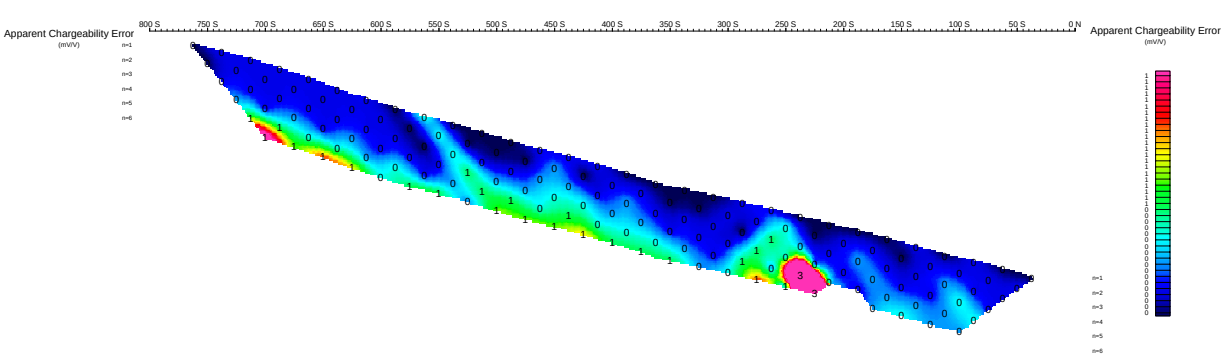
AURORA GEOSCIENCES LTD.





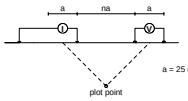




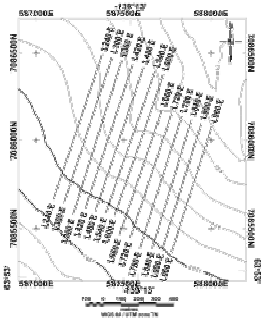


COMPOSITE SECTION
L840 E

Modified Dipole-Dipole Array



Stationary electrode at 800S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

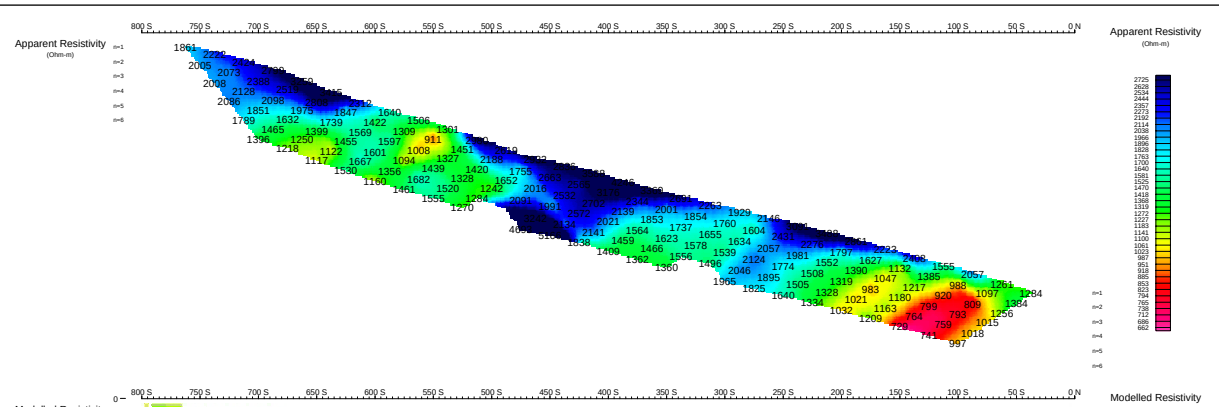
KLONDIKE STAR MINERAL CORP.

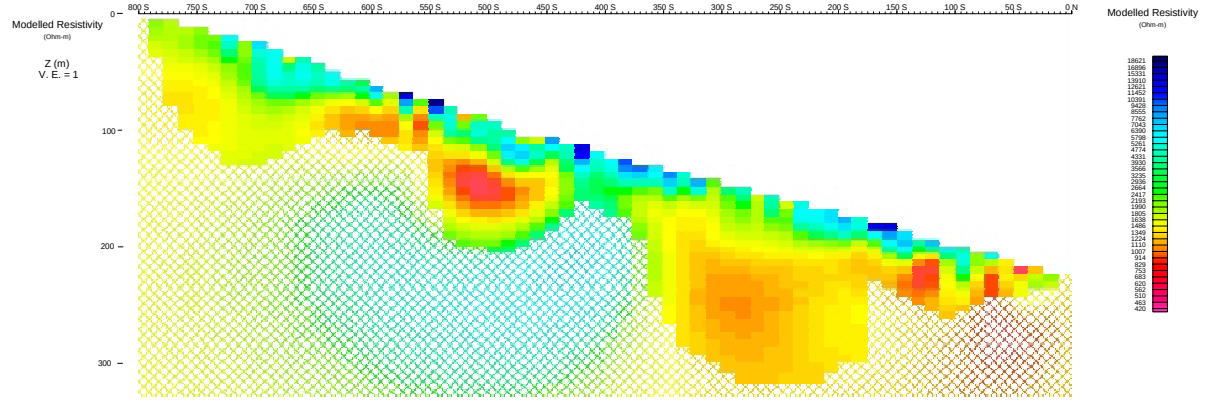
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L840 E

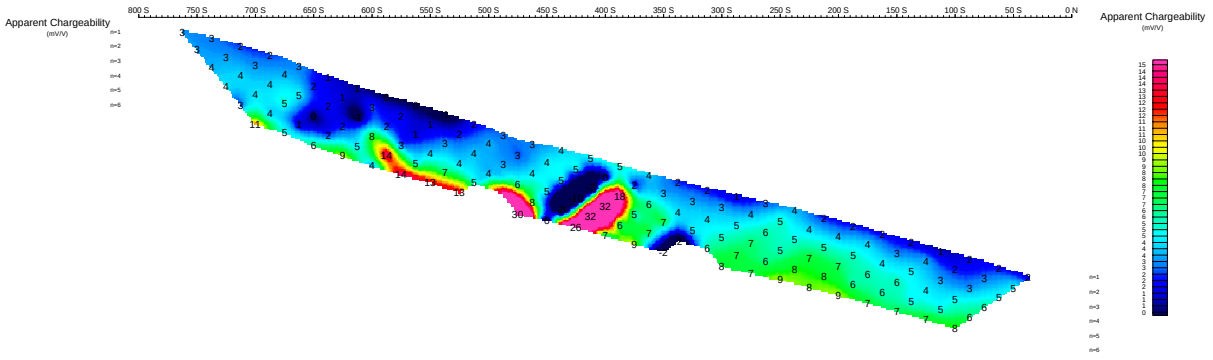
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

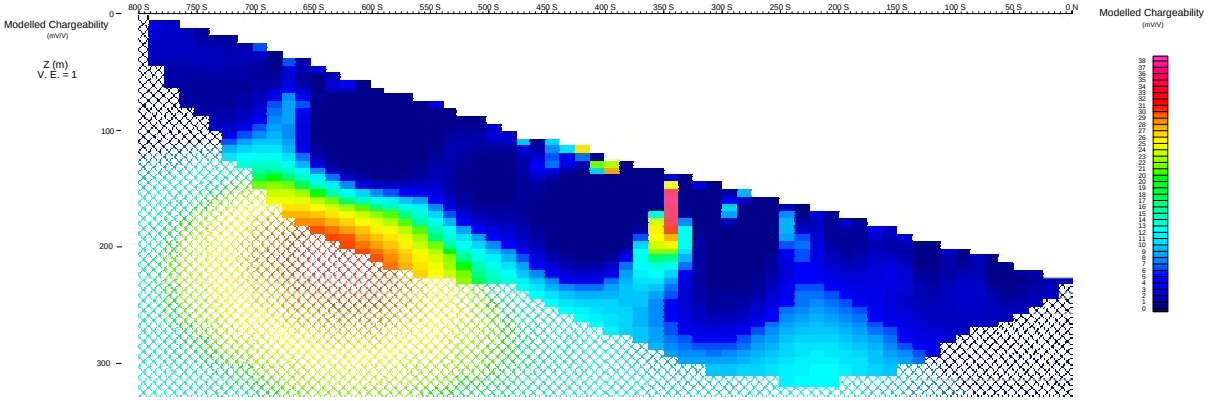
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07
Appendix E

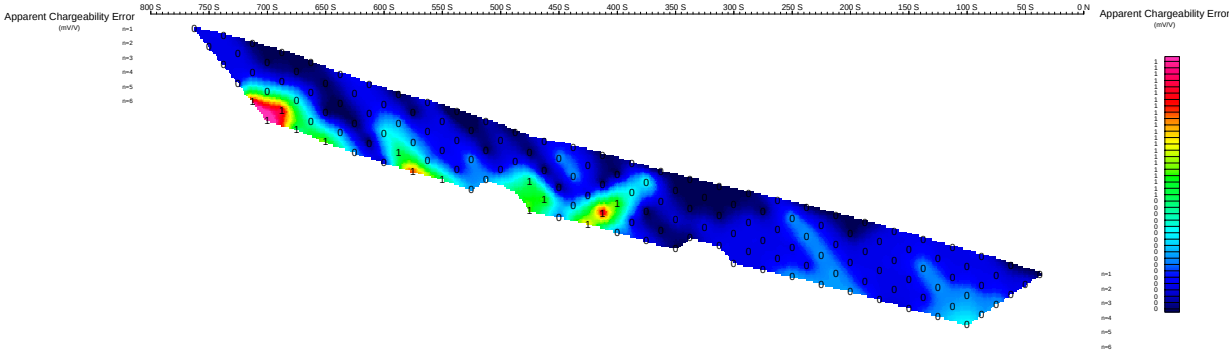
AURORA GEOSCIENCES LTD.





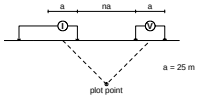




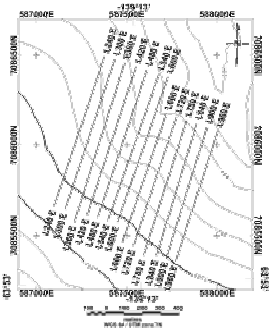


COMPOSITE SECTION
L900 E

Modified Dipole-Dipole Array



Stationary electrode at 800N (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

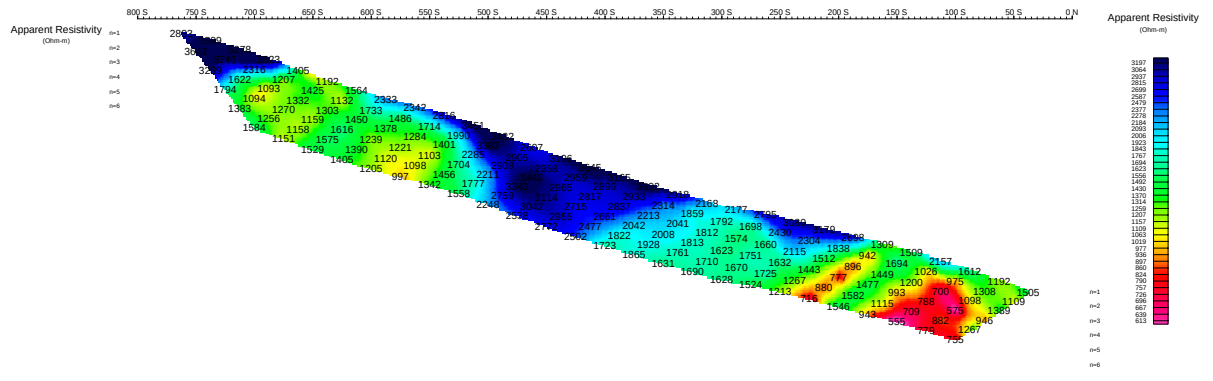
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L900 E

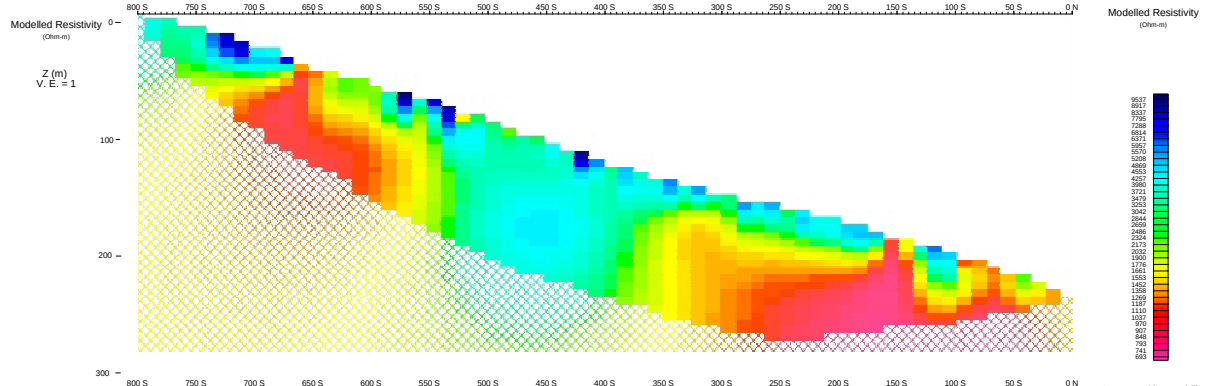
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

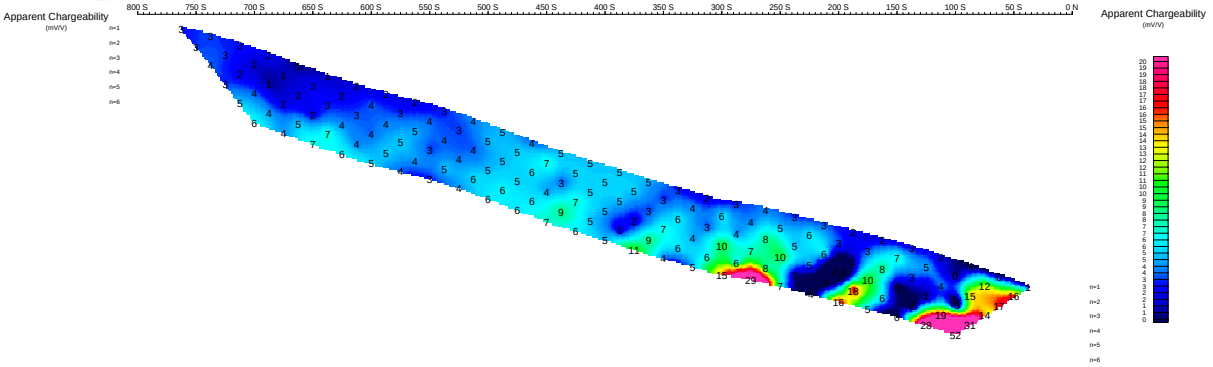
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07

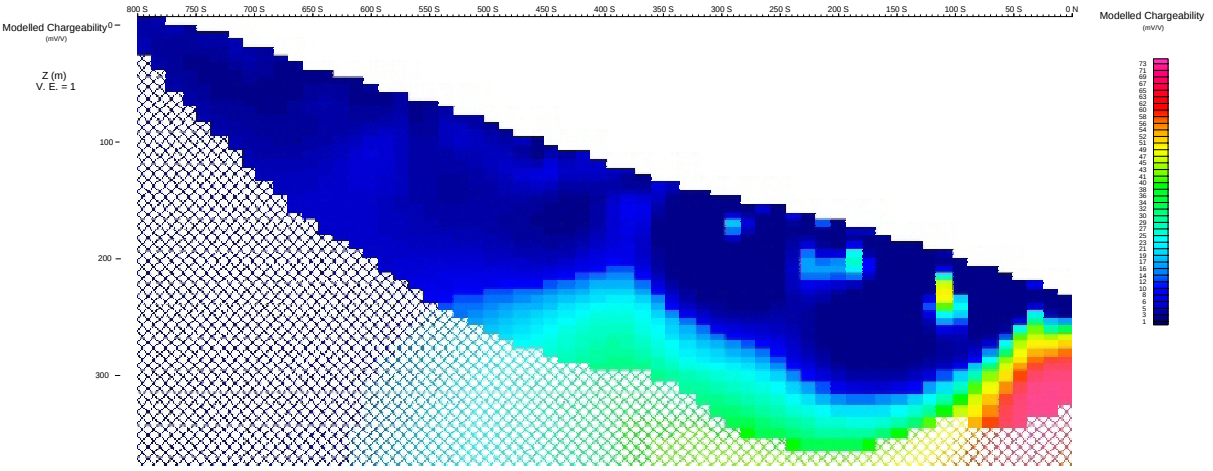
Appendix E

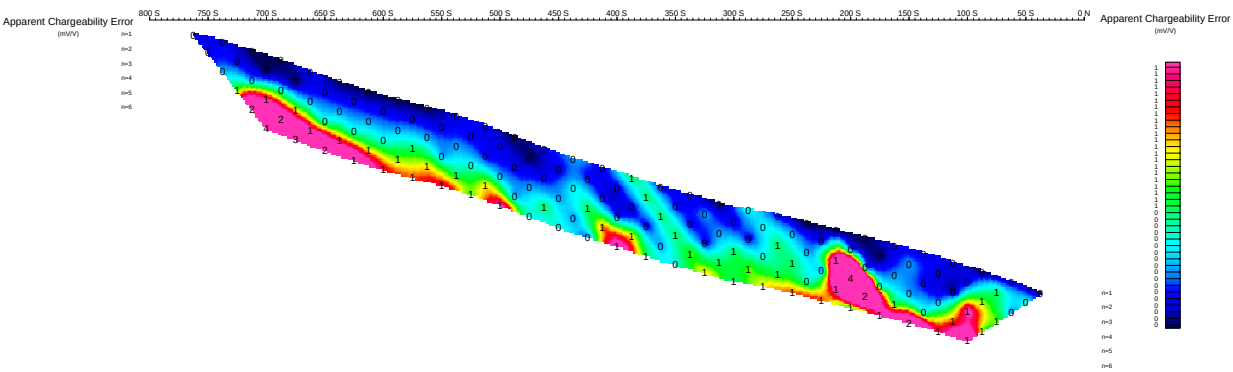
AURORA GEOSCIENCES LTD.





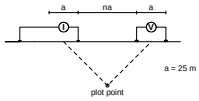




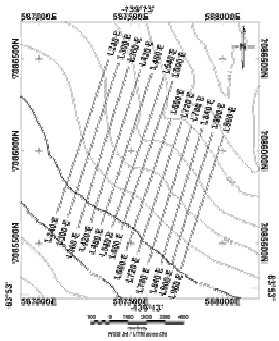


COMPOSITE SECTION
L960 E

Modified Dipole-Dipole Array



Stationary electrode at 800S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

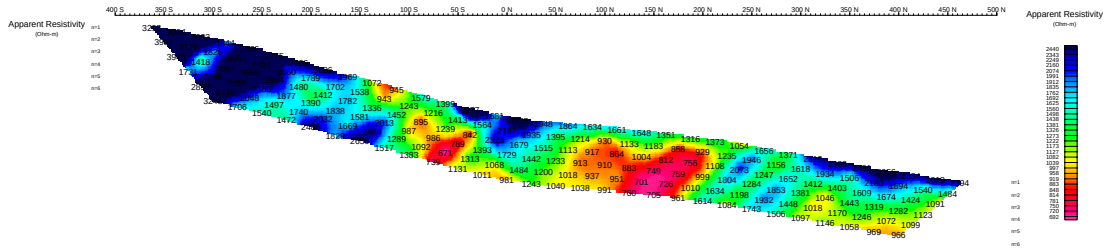
KLONDIKE STAR MINERAL CORP.

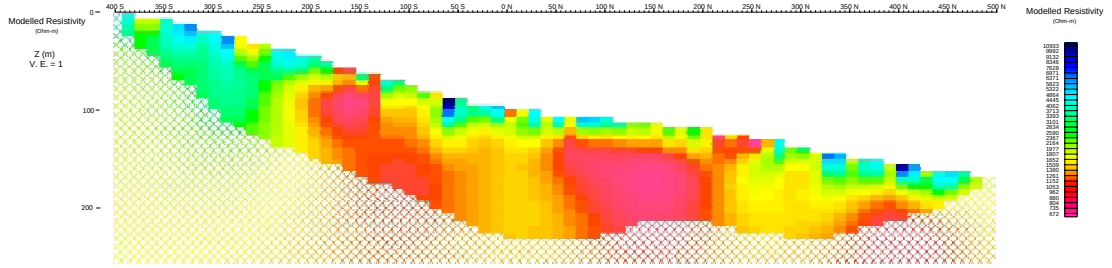
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
COMPOSITE SECTION L960 E

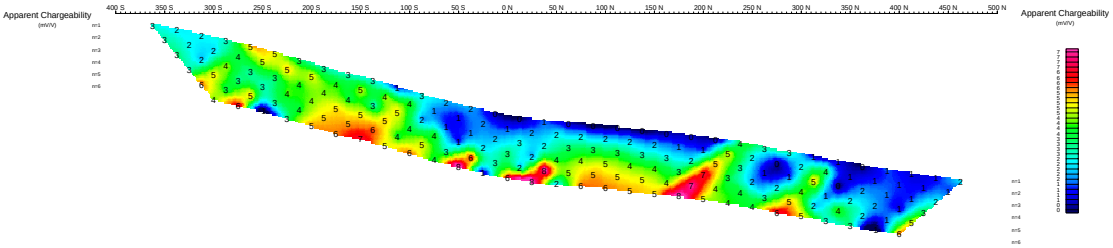
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: HDS

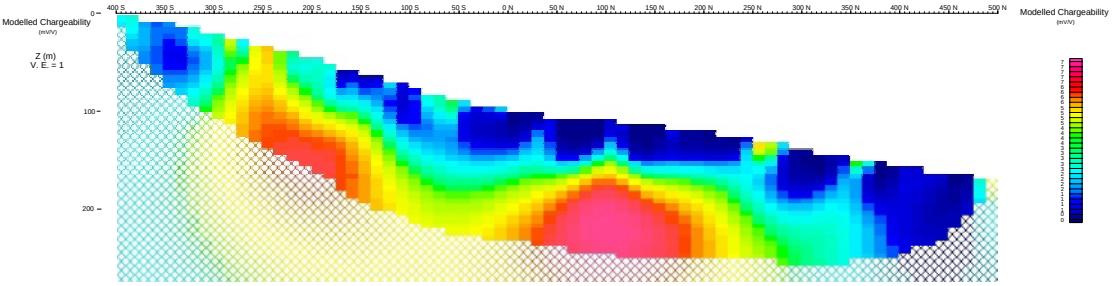
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07
Appendix E

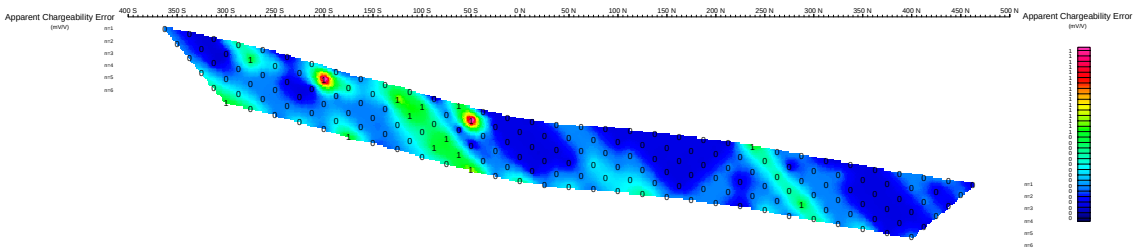
AURORA GEOSCIENCES LTD.





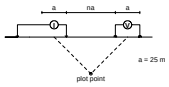




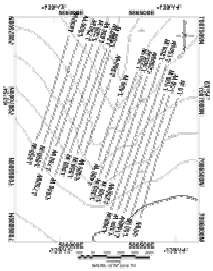


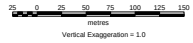
COMPOSITE SECTION
L0 W

Modified Dipole-Dipole Array



Stationary electrode at 400S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





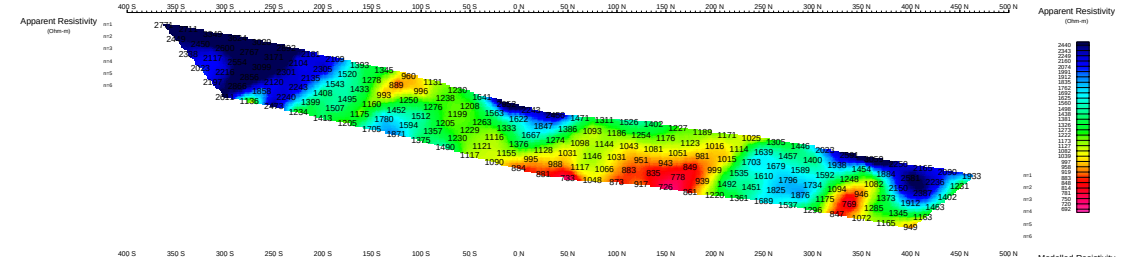
Vertical Exaggeration = 1.0

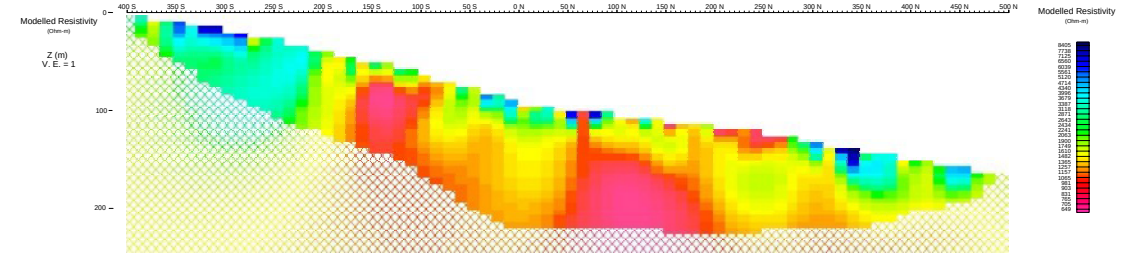
KLONDIKE STAR MINERAL CORP.

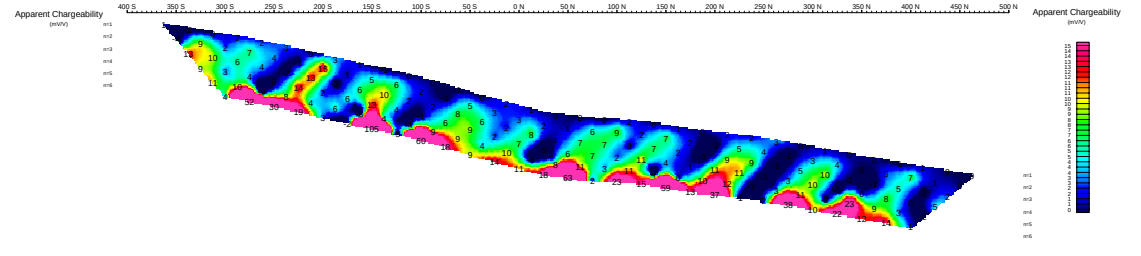
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L0 W

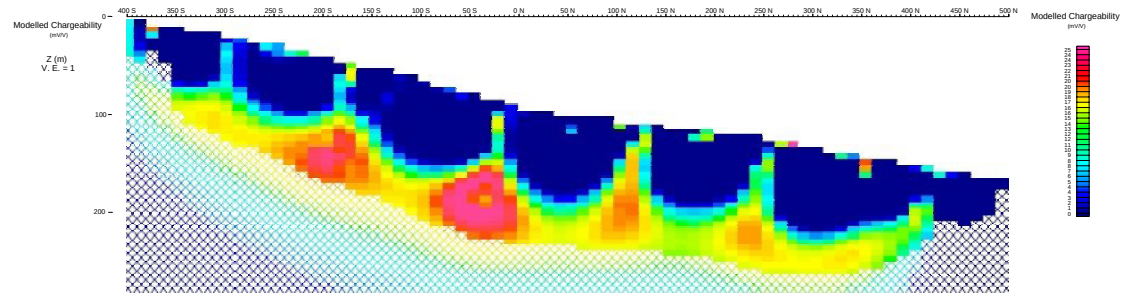
NTS: 115 O/14 — Mining District: Dawson
Datum: NAD 83 — Projection: UTM Zone 7
Job: KDS-06-02-YT — Date 08 Feb 07
Drawn by: A. Lebel — **Appendix E**

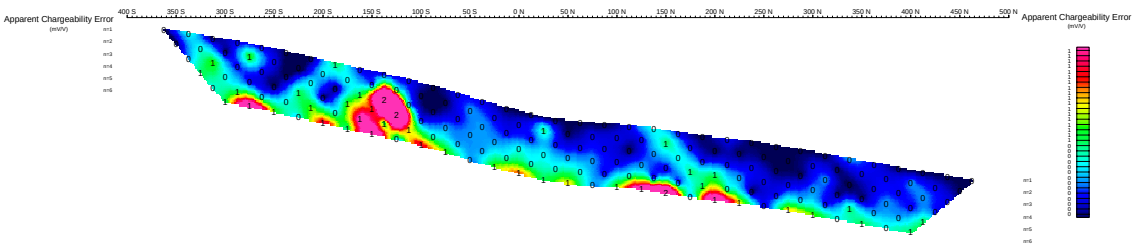
AURORA GEOSCIENCES LTD.





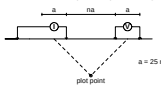




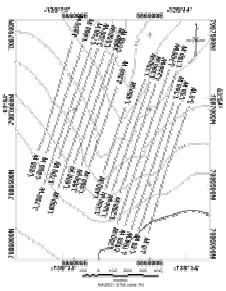


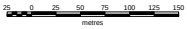
COMPOSITE SECTION
L50 W

Modified Dipole-Dipole Array



Stationary electrode at 400S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Vertical Exaggeration = 1.0

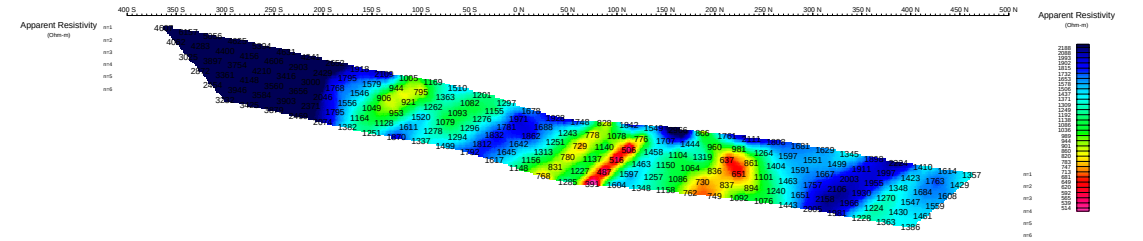
KLONDIKE STAR MINERAL CORP.

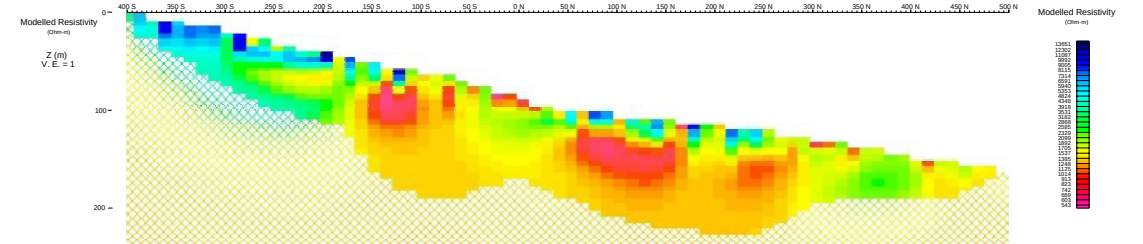
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L50 W

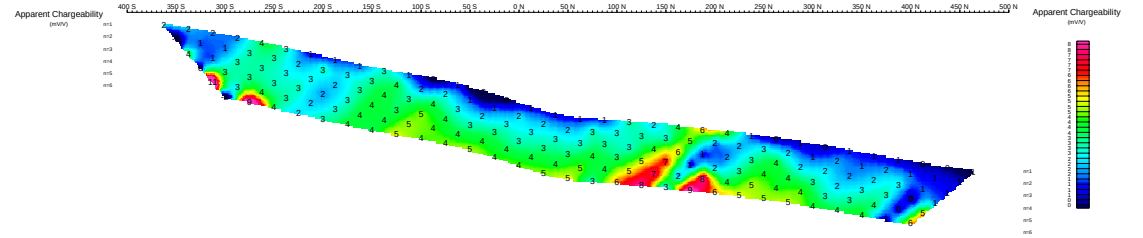
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

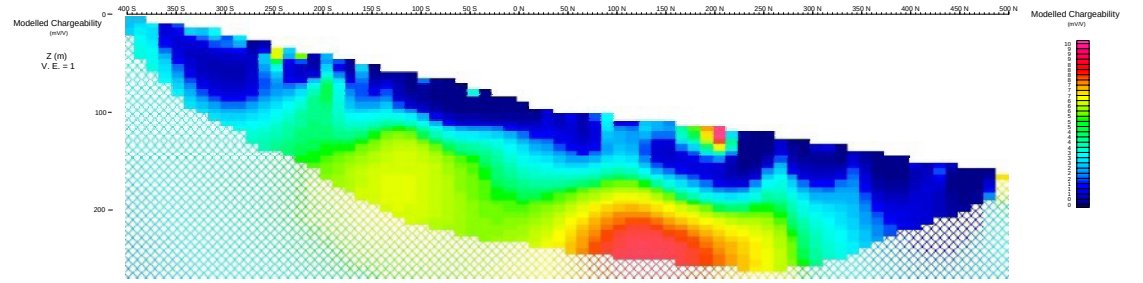
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07
Appendix E

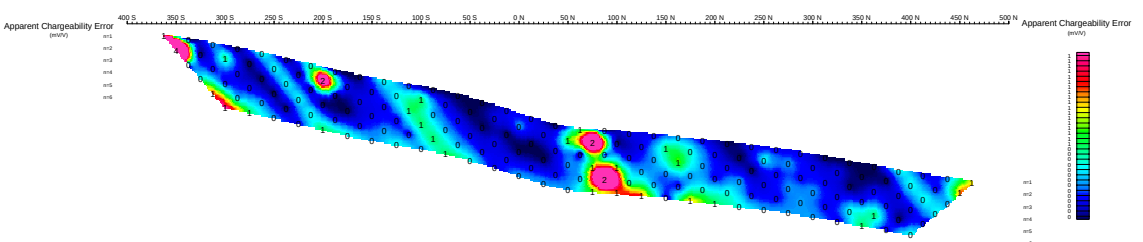
AURORA GEOSCIENCES LTD.





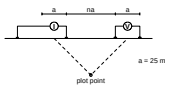




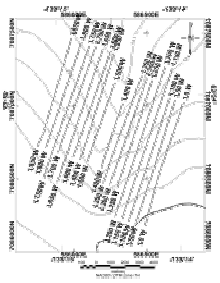


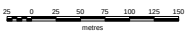
COMPOSITE SECTION
L100 W

Modified Dipole-Dipole Array



Stationary electrode at 400S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

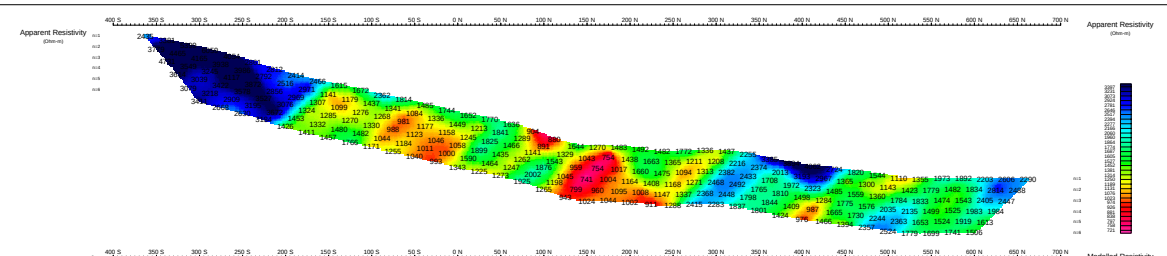
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L100 W

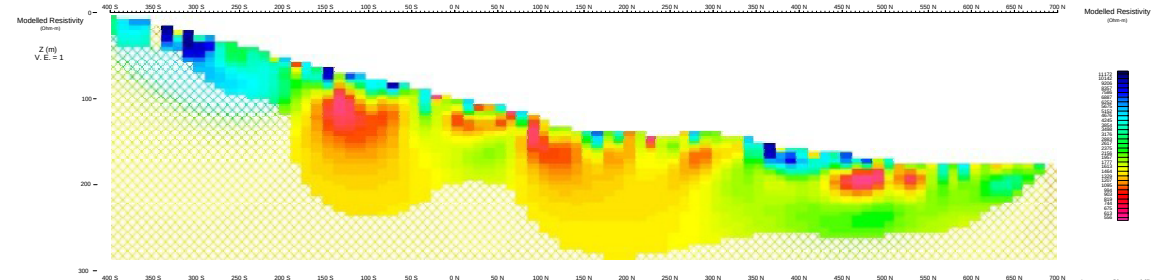
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

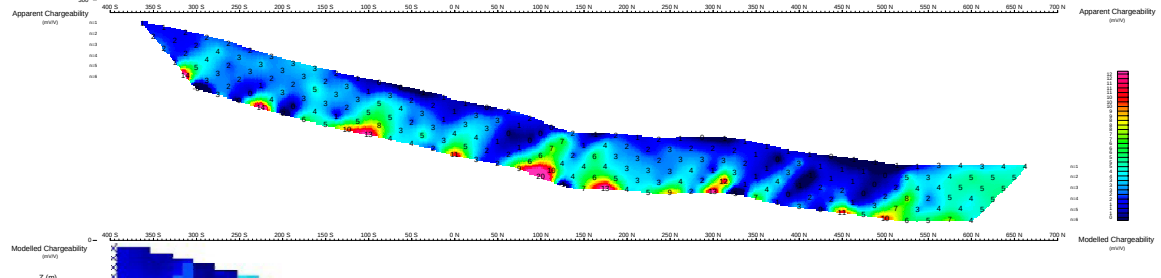
Mining District: Dawson
Projection: UTM Zone 7
Date 08 Feb 07

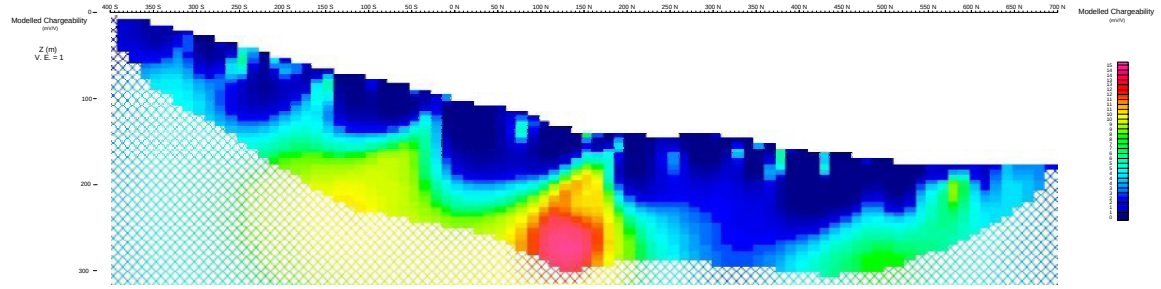
Appendix E

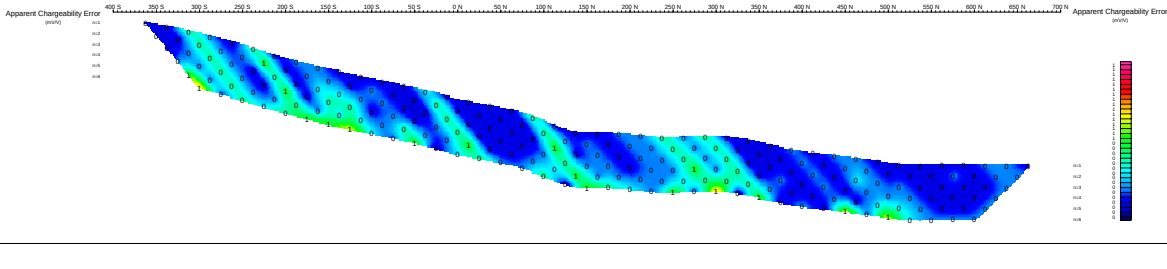
AURORA GEOSCIENCES LTD.





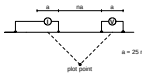




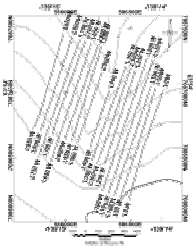


COMPOSITE SECTION
L150 W

Modified Dipole-Dipole Array



Stationary electrode at 400S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

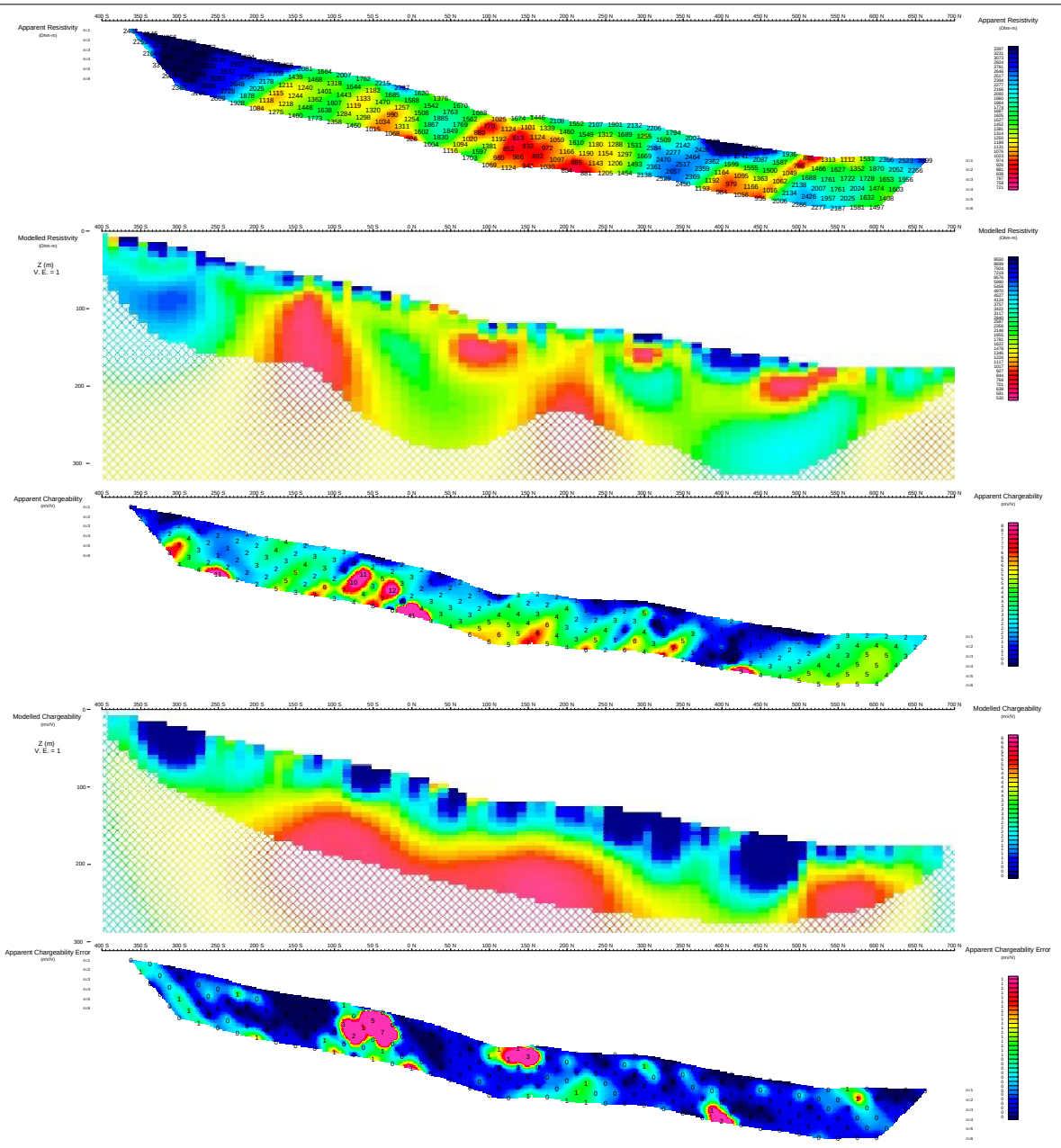
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L150 W

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

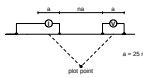
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07
Appendix E

AURORA GEOSCIENCES LTD.

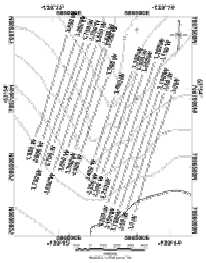


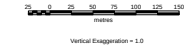
COMPOSITE SECTION
L200 W

Modified Dipole-Dipole Array



Stationary electrode at 400S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Vertical Exaggeration = 1.0

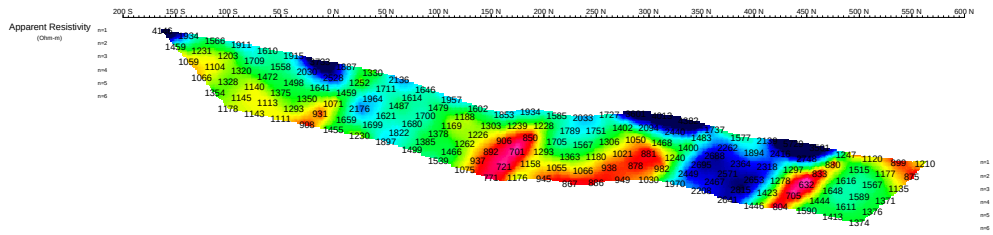
KLONDIKE STAR MINERAL CORP.

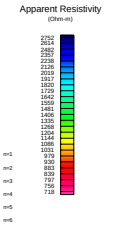
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L200 W

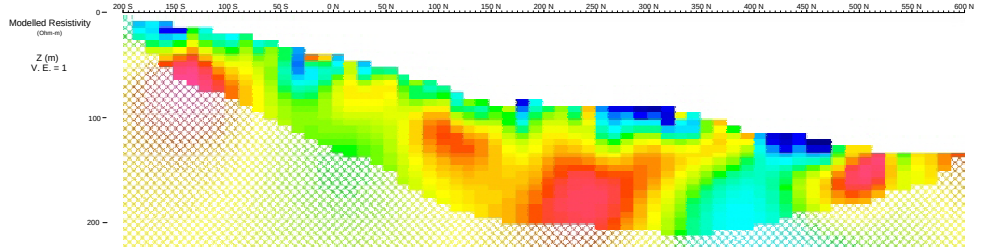
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-VT
Drawn by: A. Lebel

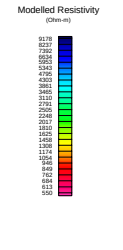
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07
Appendix E

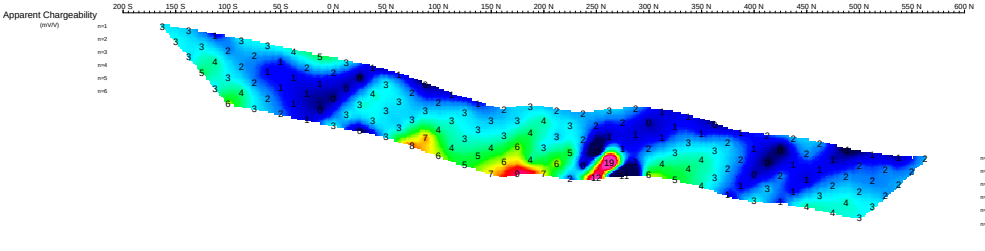
AURORA GEOSCIENCES LTD.

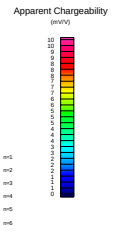


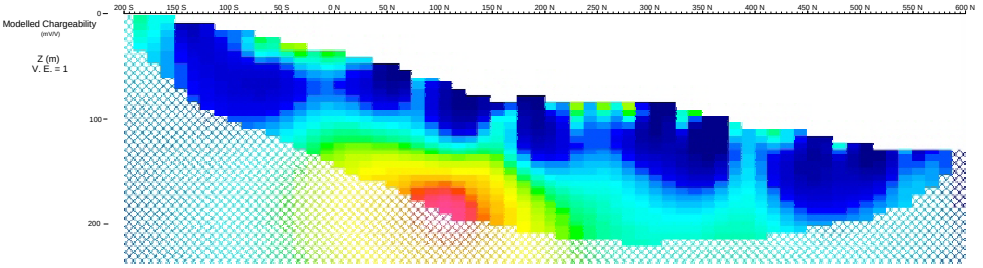


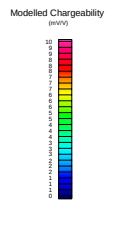


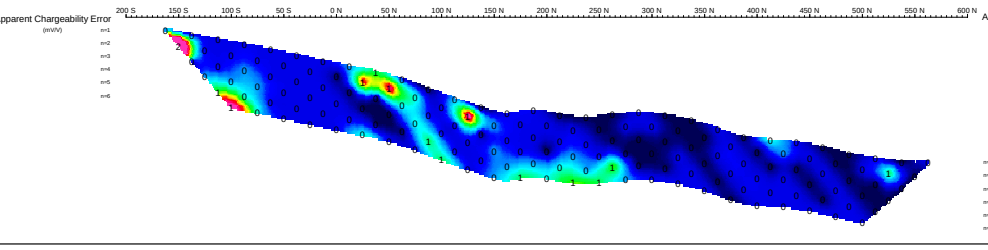


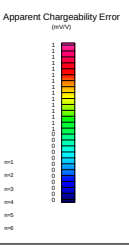






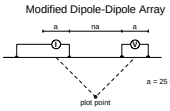




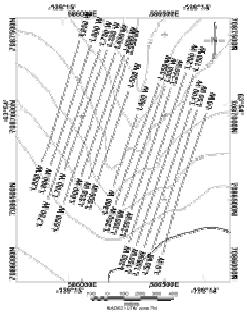


COMPOSITE SECTION
L250 W

Modified Dipole-Dipole Array



Stationary electrode at 200S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Northstar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

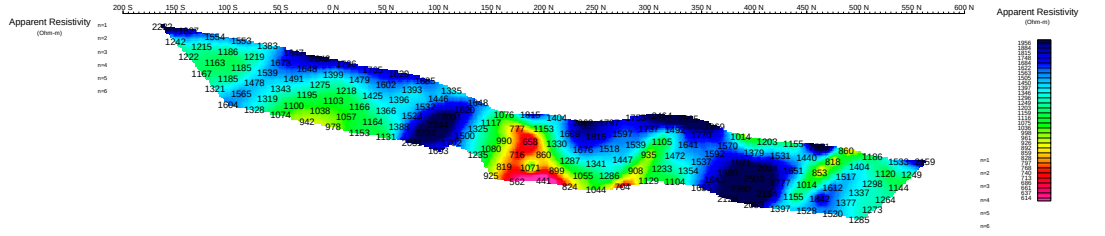
KLONDIKE STAR MINERAL CORP.

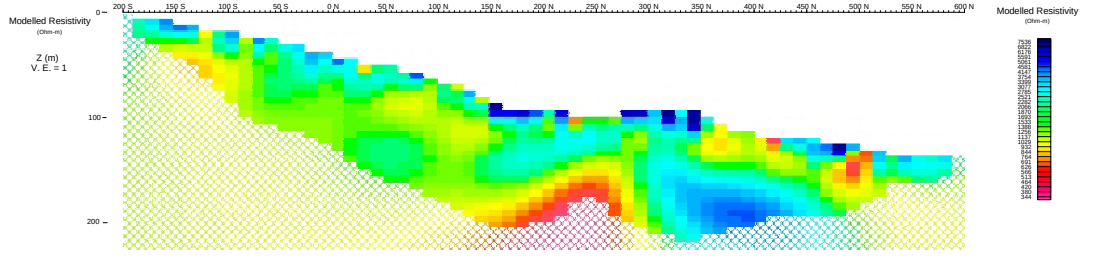
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L250 W

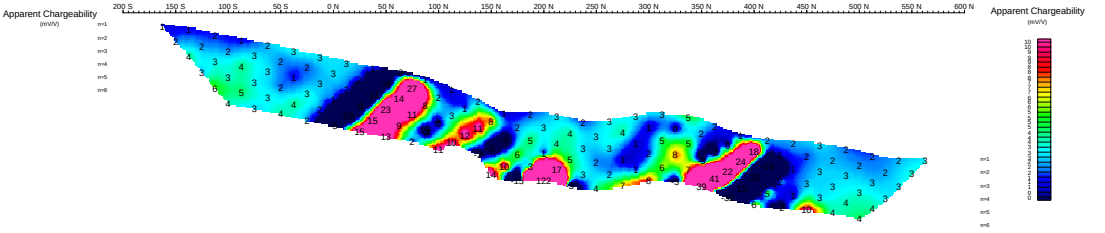
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

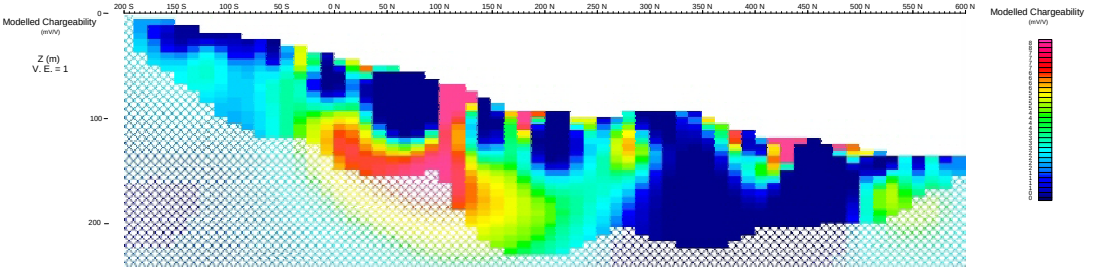
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07
Appendix E

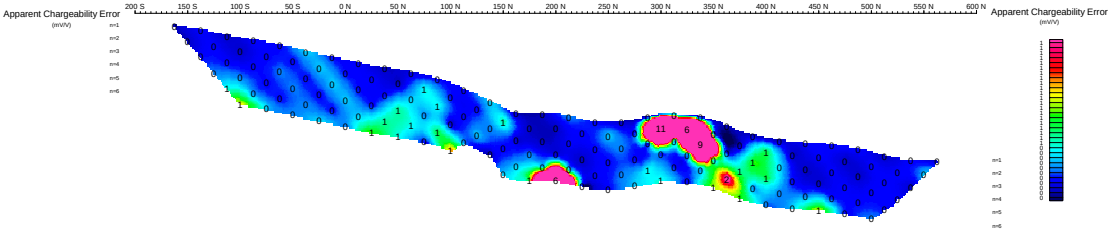
AURORA GEOSCIENCES LTD.





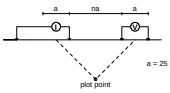




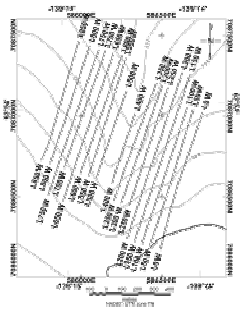


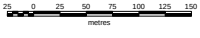
COMPOSITE SECTION
L300 W

Modified Dipole-Dipole Array



Stationary electrode at 200S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Vertical Exaggeration = 1.0

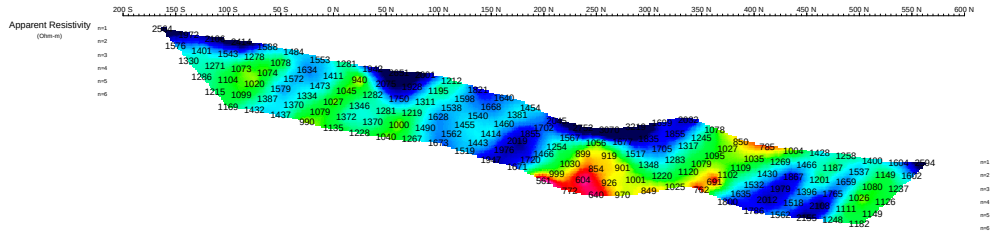
KLONDIKE STAR MINERAL CORP.

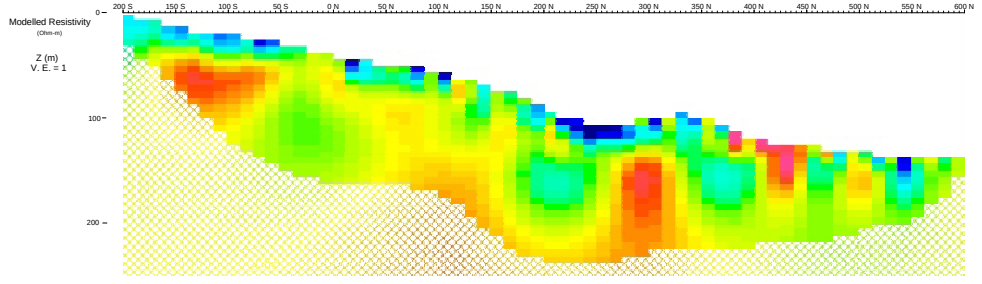
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L300 W

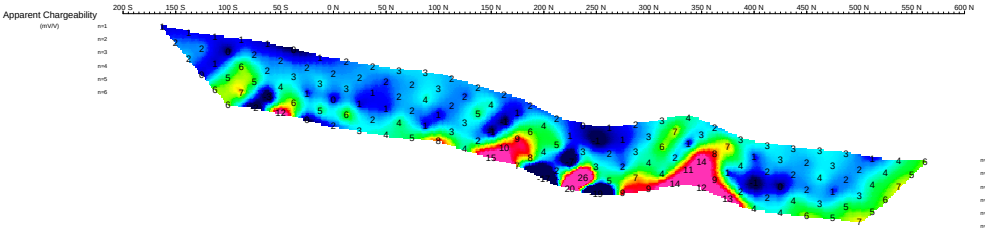
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

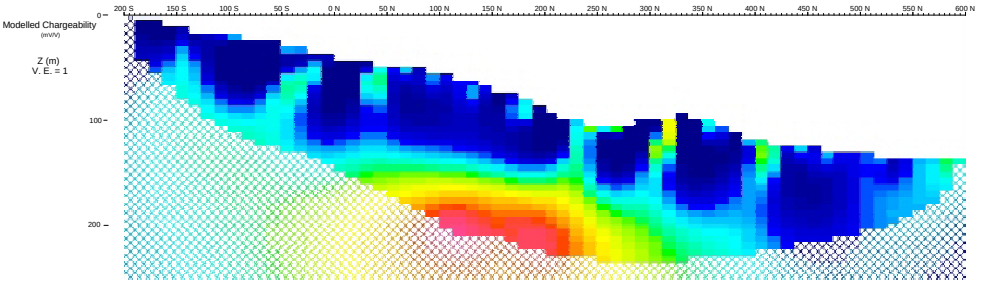
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07
Appendix E

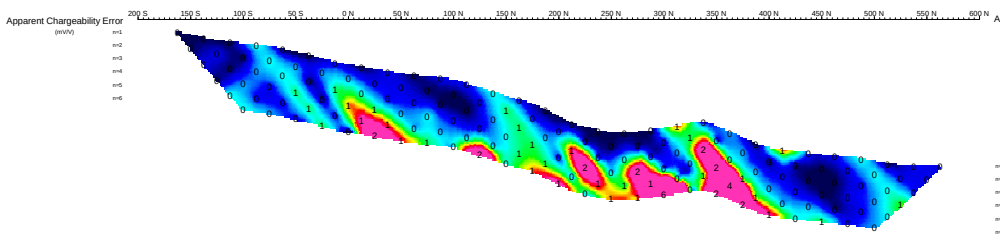
AURORA GEOSCIENCES LTD.





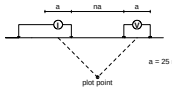




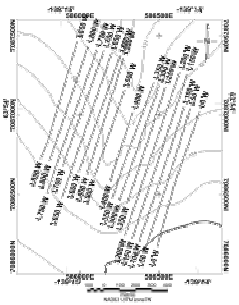


COMPOSITE SECTION
L350 W

Modified Dipole-Dipole Array



Stationary electrode at 200S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres
Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

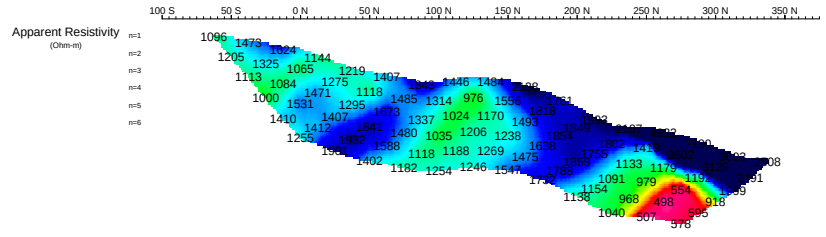
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L350 W

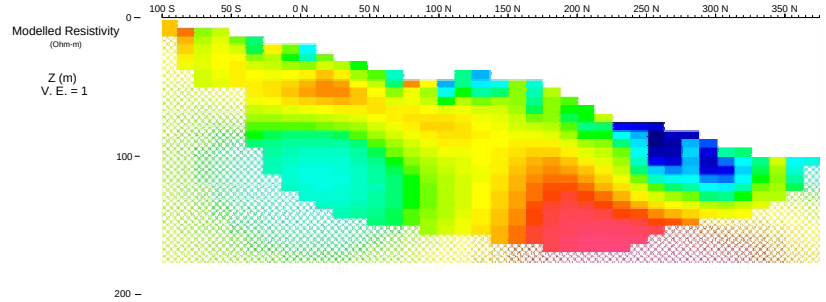
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

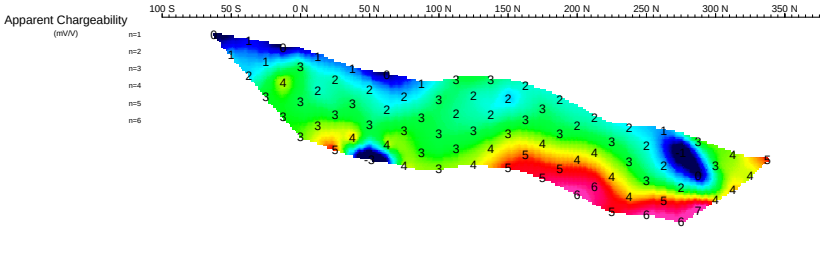
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07

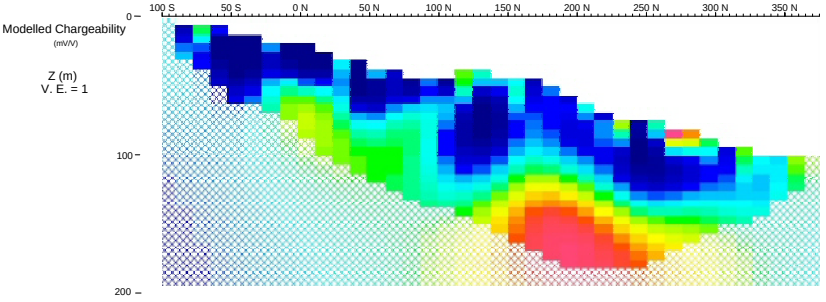
Appendix E

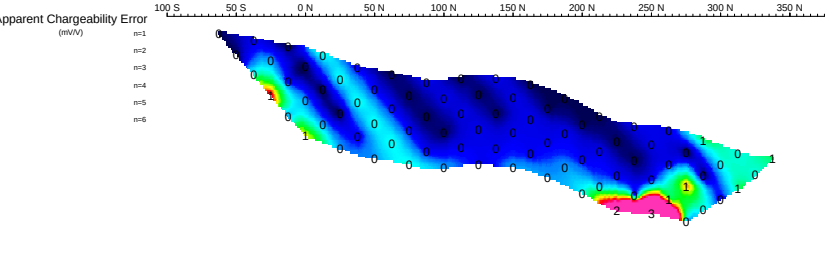
AURORA GEOSCIENCES LTD.





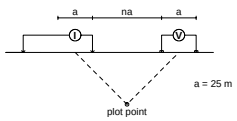






COMPOSITE SECTION
L400 W

Modified Dipole-Dipole Array



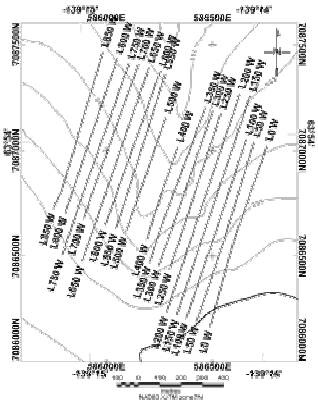
Stationary electrode at 100S (moving N).

Receiver: Iris ElrecPro

Transmitter: GDD Tx-II 3.6kW

Data File: Lonestar West Grid.xyz

Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150

metres

Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY

ELDORADO PROPERTY, LONESTAR WEST GRID

COMPOSITE SECTION L400 W

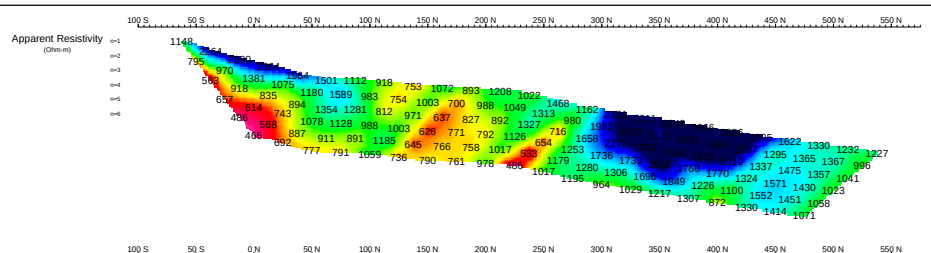
NTS: 115 O/14 — Mining District: Dawson

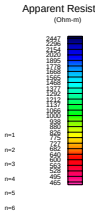
Datum: NAD 83 — Projection: UTM Zone 7

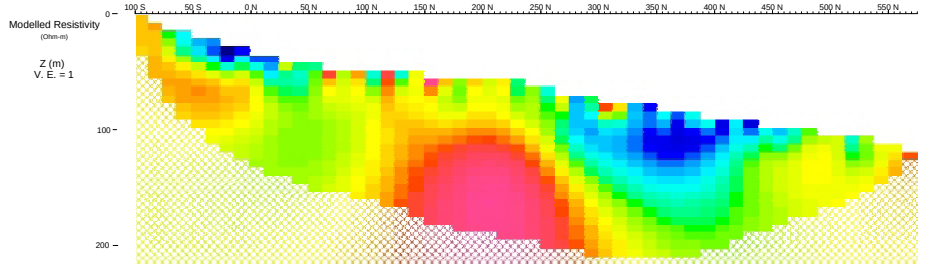
Job: KDS-06-02-YT — Date 09 Feb 07

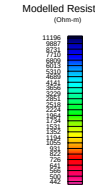
Drawn by: A. Lebel — **Appendix E**

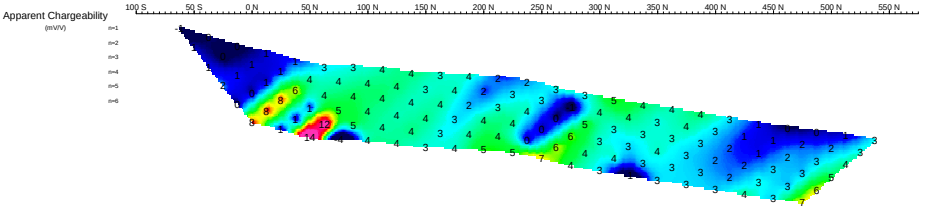
AURORA GEOSCIENCES LTD.

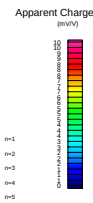


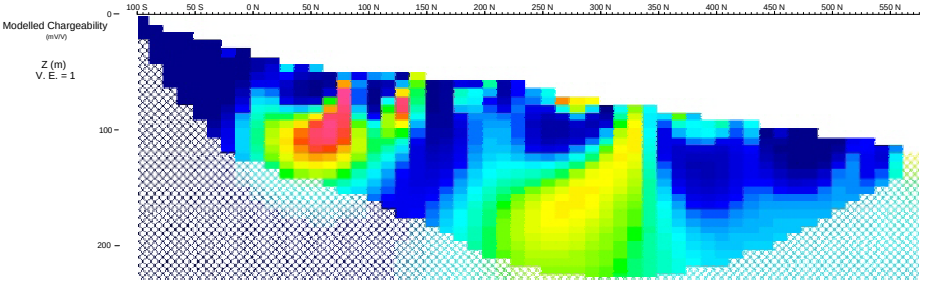


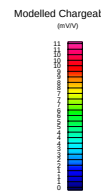


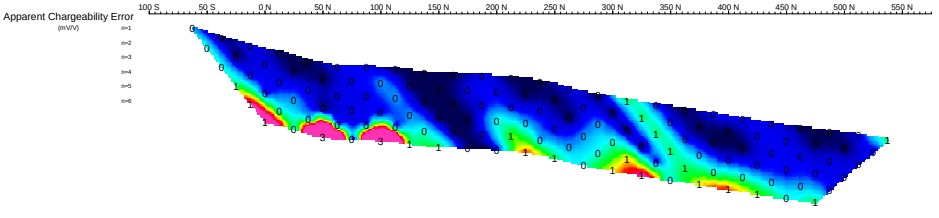


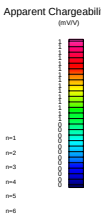






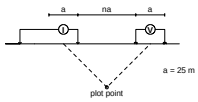




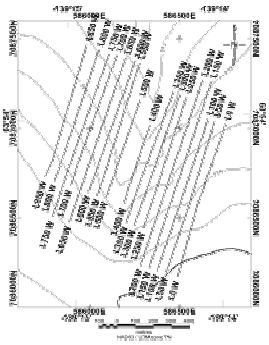


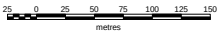
COMPOSITE SECTION
L500 W

Modified Dipole-Dipole Array



Stationary electrode at 100S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Vertical Exaggeration = 1.0

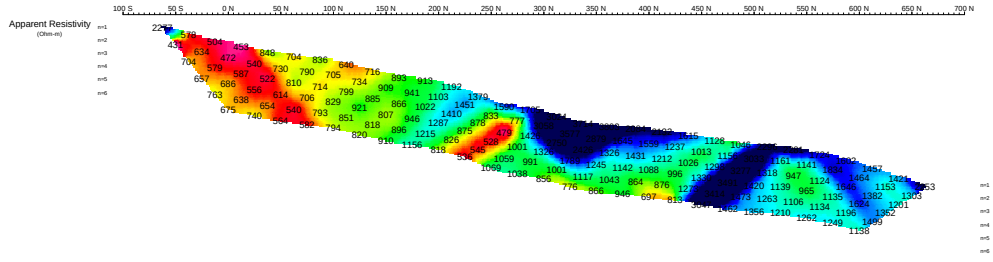
KLONDIKE STAR MINERAL CORP.

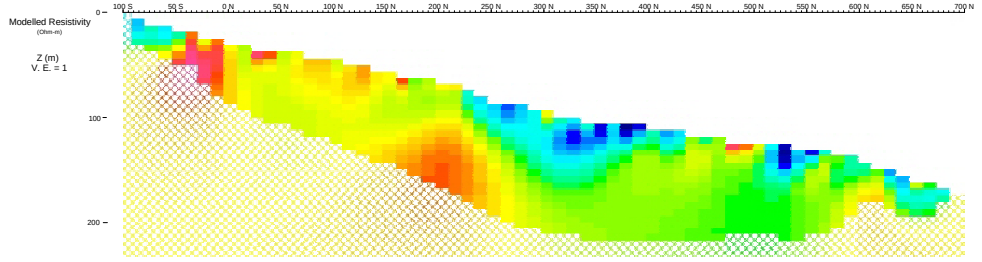
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L500 W

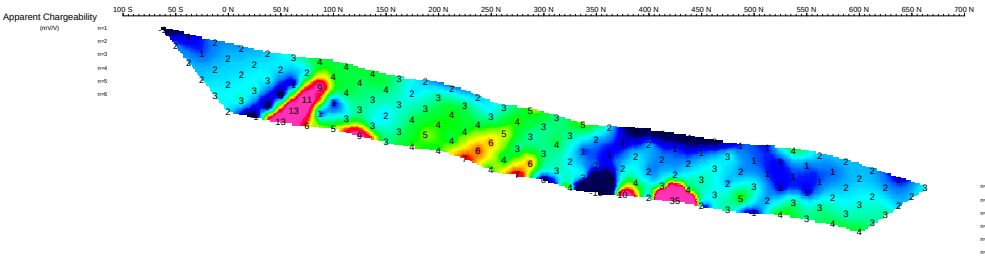
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

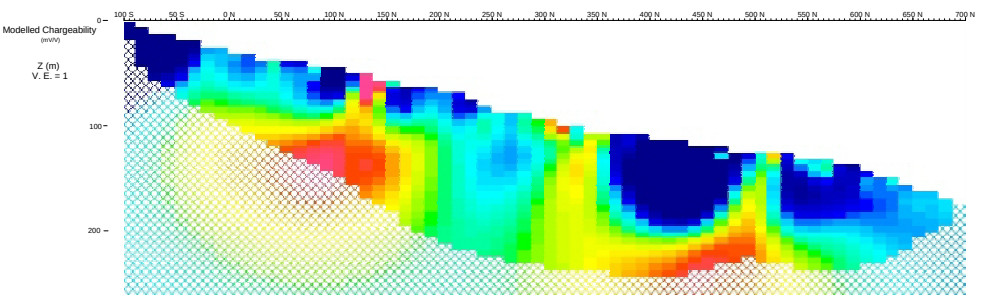
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07
Appendix E

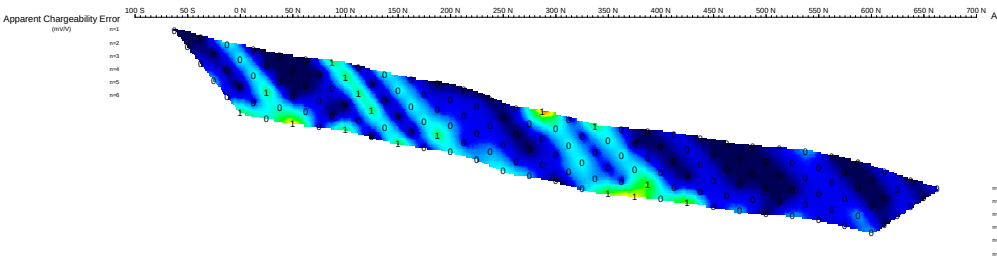
AURORA GEOSCIENCES LTD.





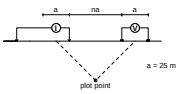




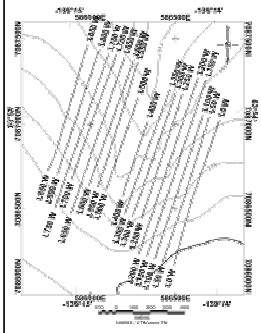


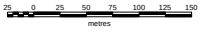
COMPOSITE SECTION
L550 W

Modified Dipole-Dipole Array



Stationary electrode at 100S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Vertical Exaggeration = 1.0

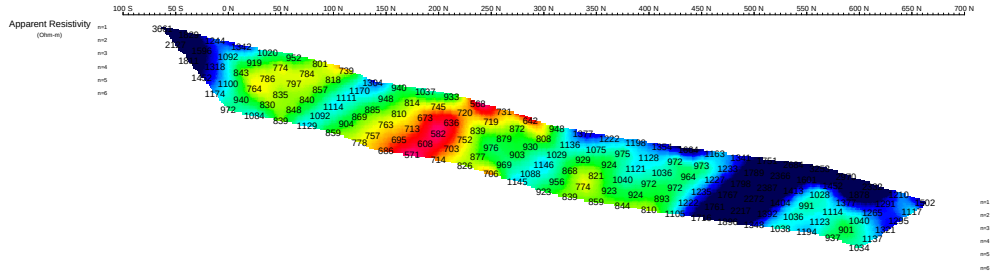
KLONDIKE STAR MINERAL CORP.

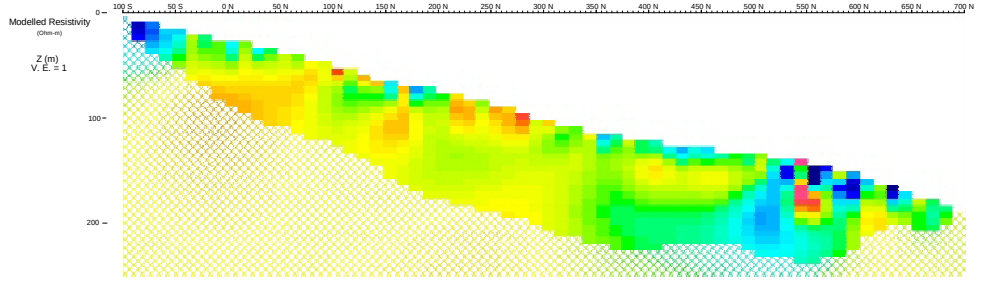
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L550 W

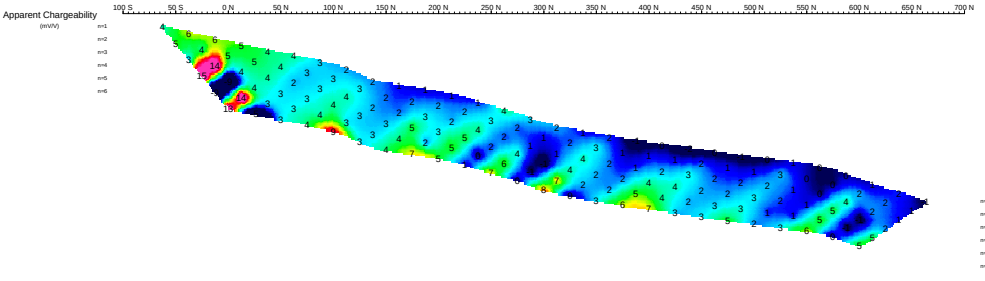
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

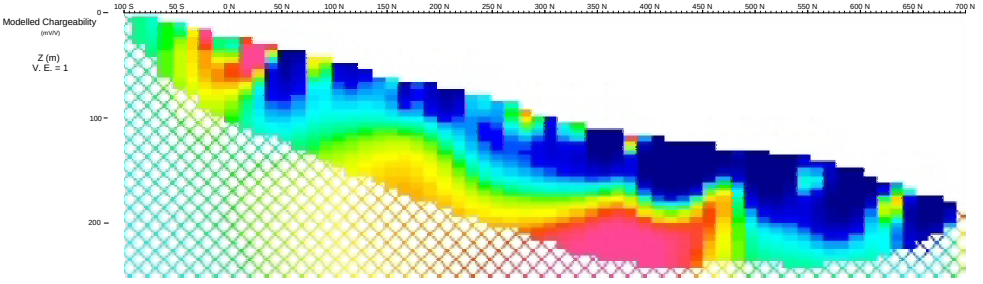
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07
Appendix E

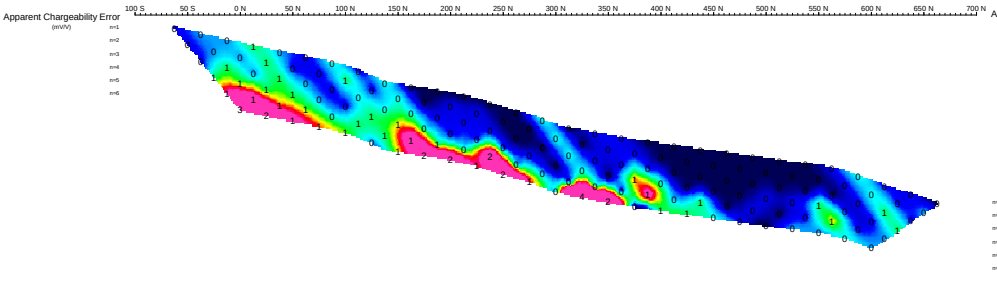
AURORA GEOSCIENCES LTD.





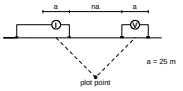




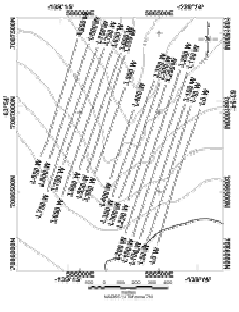


COMPOSITE SECTION
L600 W

Modified Dipole-Dipole Array



Stationary electrode at 100S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres
Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

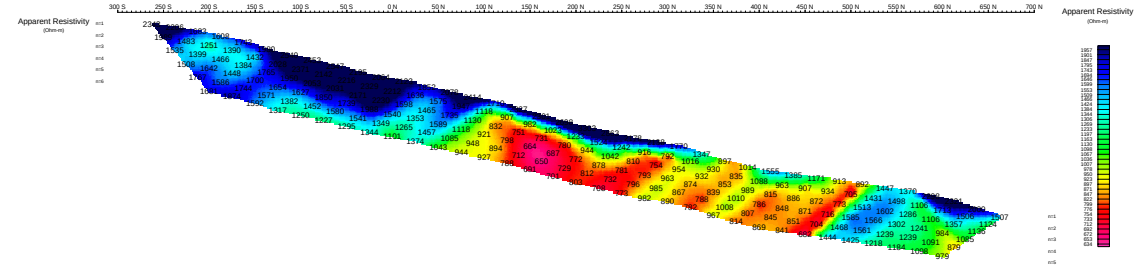
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L600 W

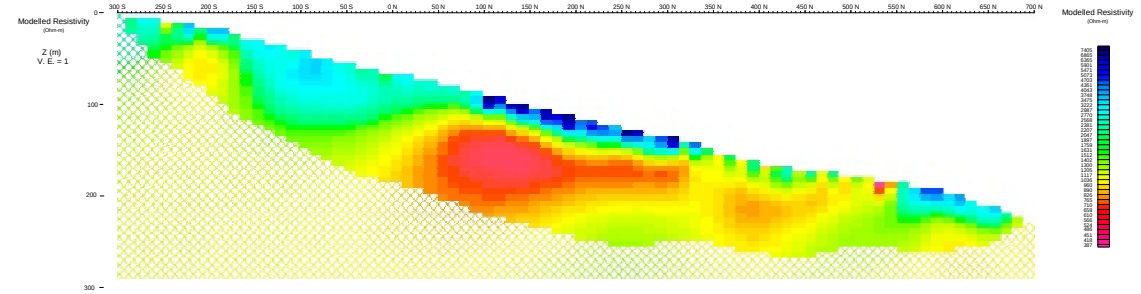
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

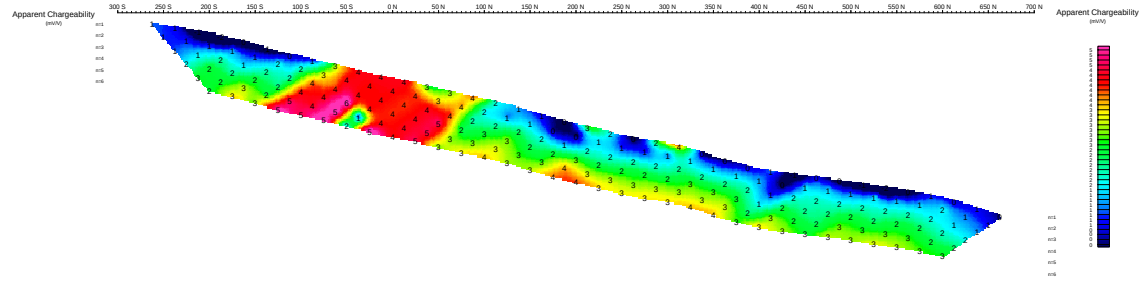
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07

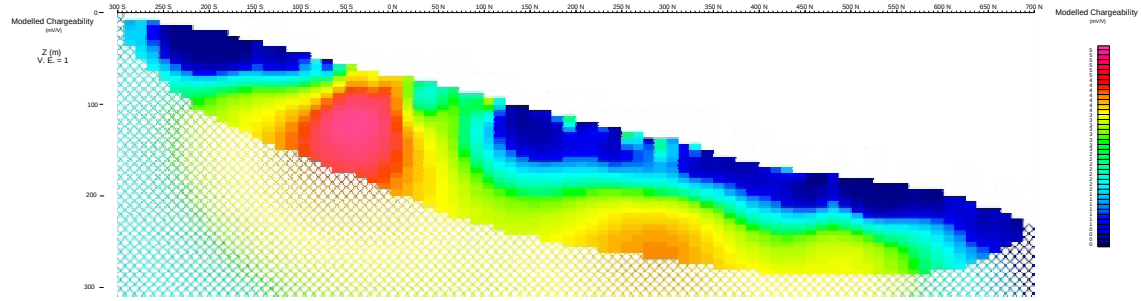
Appendix E

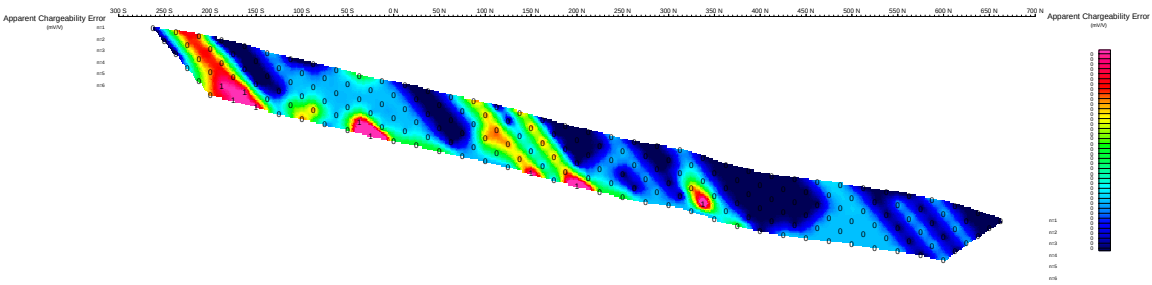
AURORA GEOSCIENCES LTD.





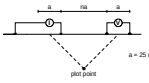




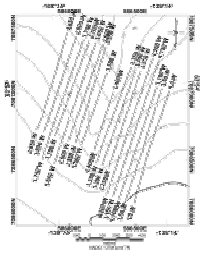


COMPOSITE SECTION
L650 W

Modified Dipole-Dipole Array



Stationary electrode at 300S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

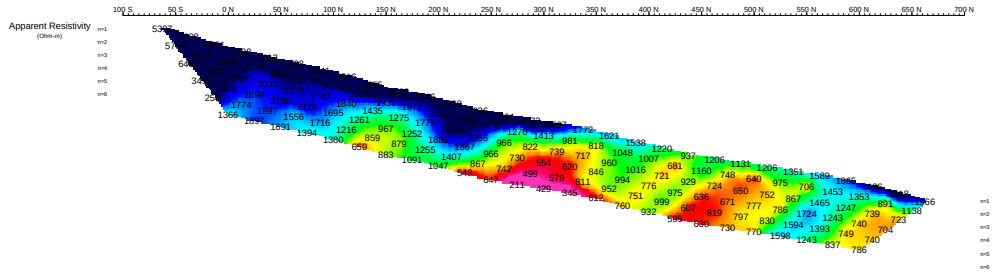
KLONDIKE STAR MINERAL CORP.

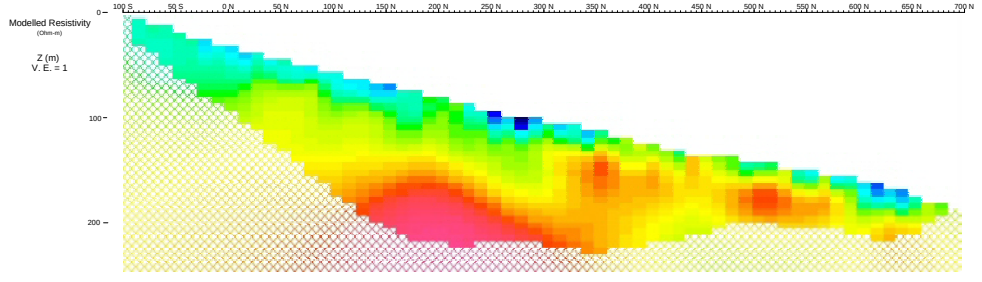
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L650 W

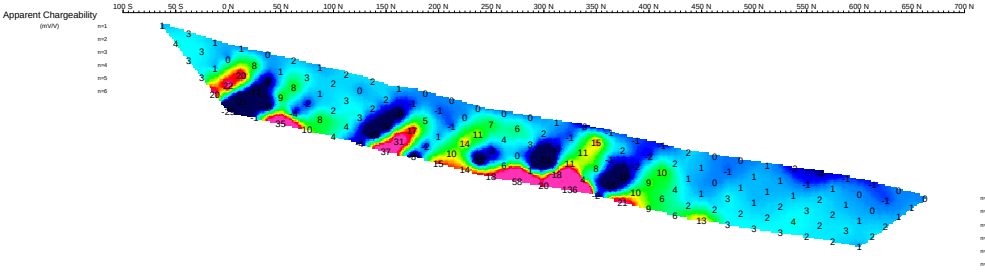
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

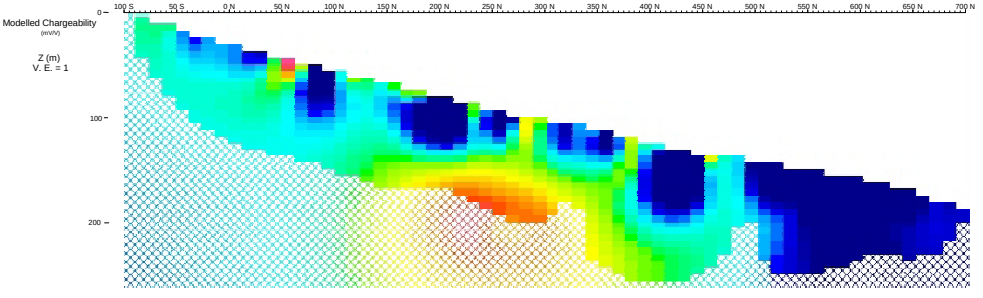
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07
Appendix E

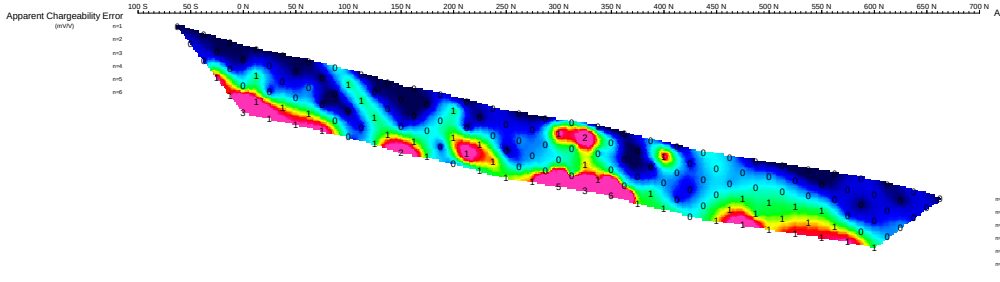
AURORA GEOSCIENCES LTD.





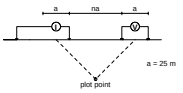




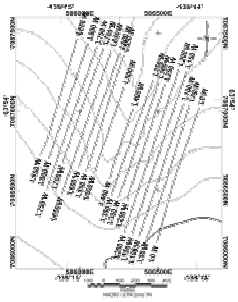


COMPOSITE SECTION
L700 W

Modified Dipole-Dipole Array



Stationary electrode at 100SN (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

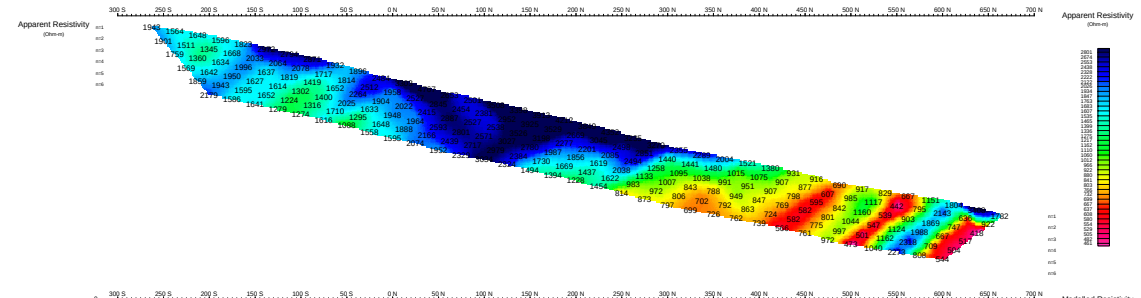
KLONDIKE STAR MINERAL CORP.

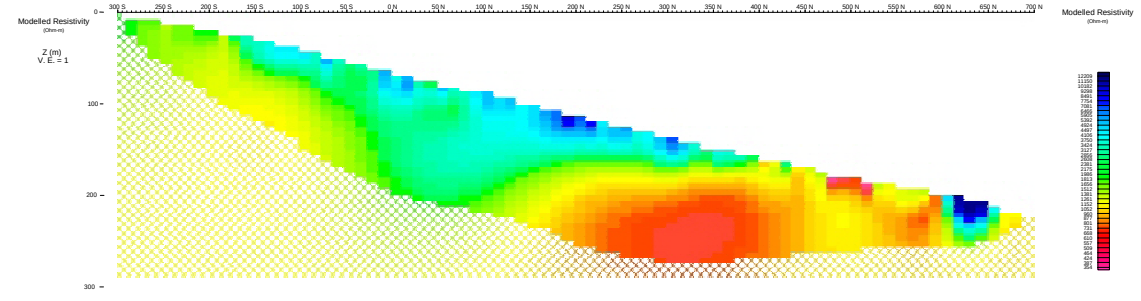
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L700 W

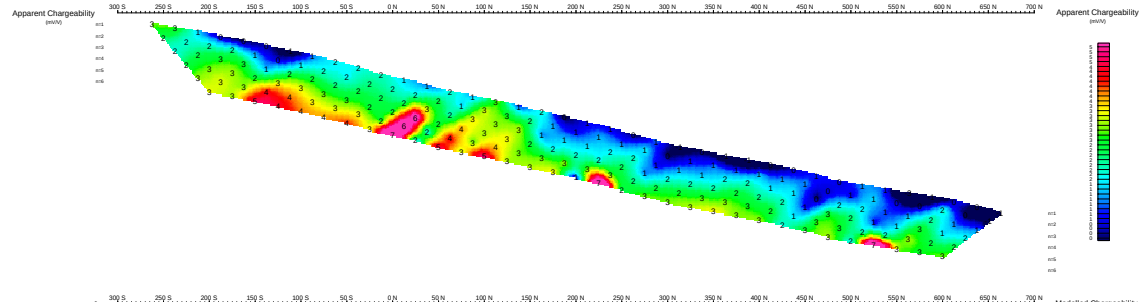
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

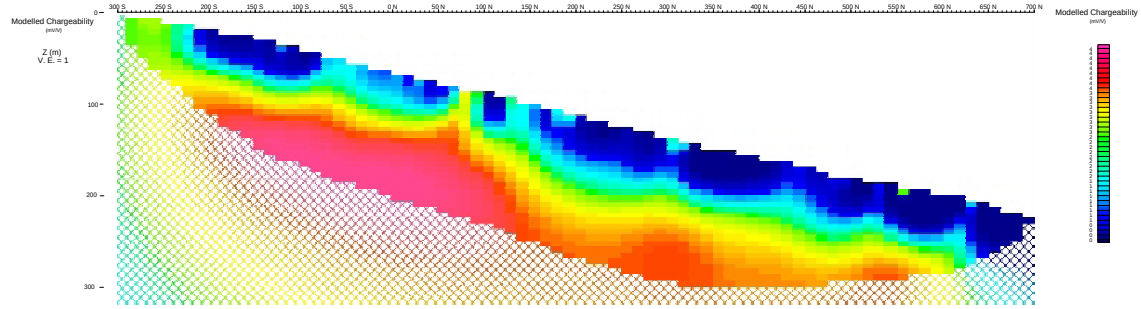
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07
Appendix E

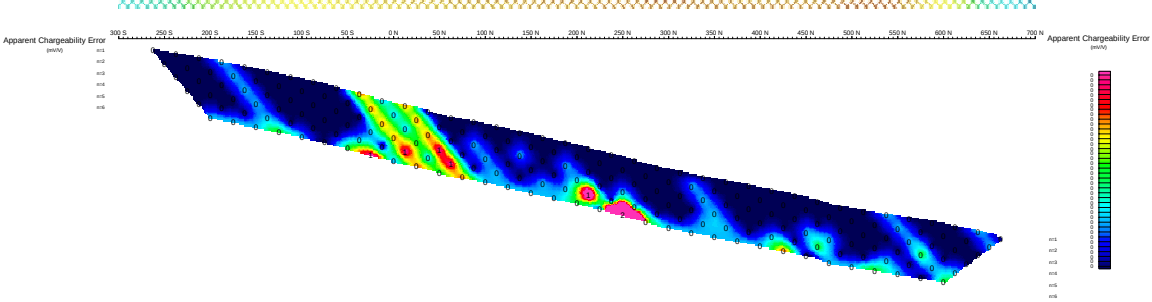
AURORA GEOSCIENCES LTD.





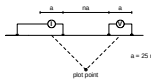




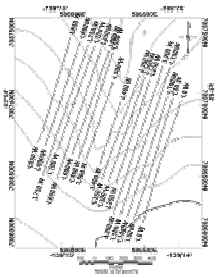


COMPOSITE SECTION
L750 W

Modified Dipole-Dipole Array



Stationary electrode at 300S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



35 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

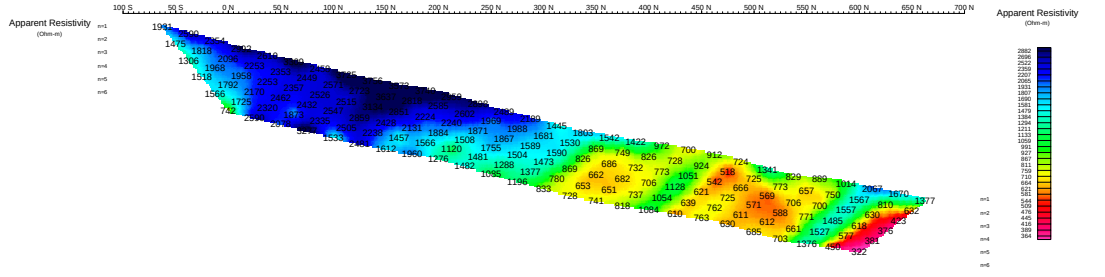
KLONDIKE STAR MINERAL CORP.

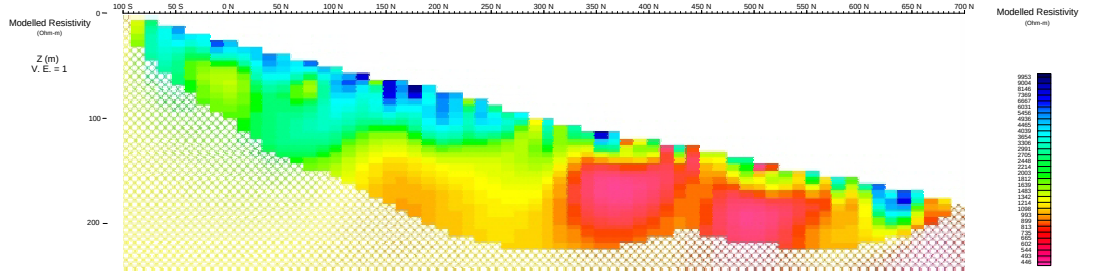
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L750 W

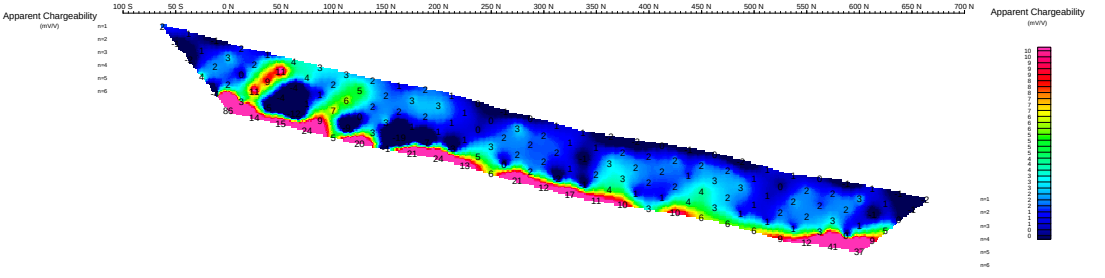
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

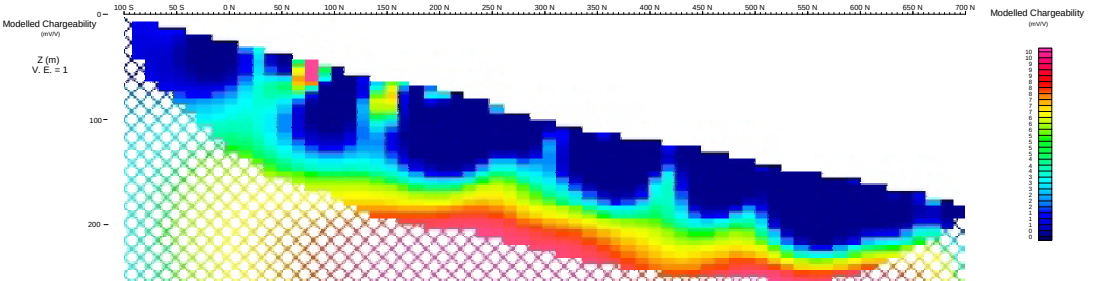
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07
Appendix E

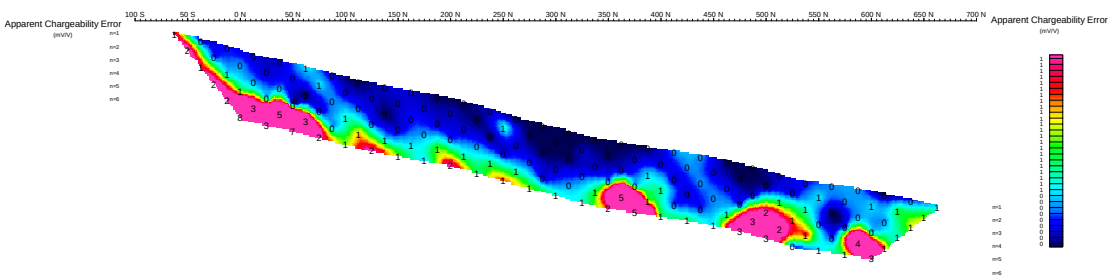
AURORA GEOSCIENCES LTD.





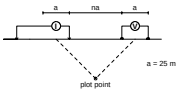




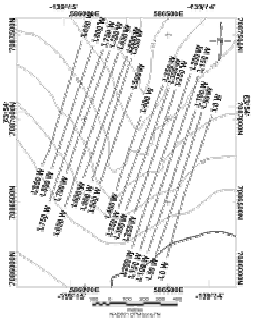


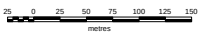
COMPOSITE SECTION
L800 W

Modified Dipole-Dipole Array



Stationary electrode at 100S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Vertical Exaggeration = 1.0

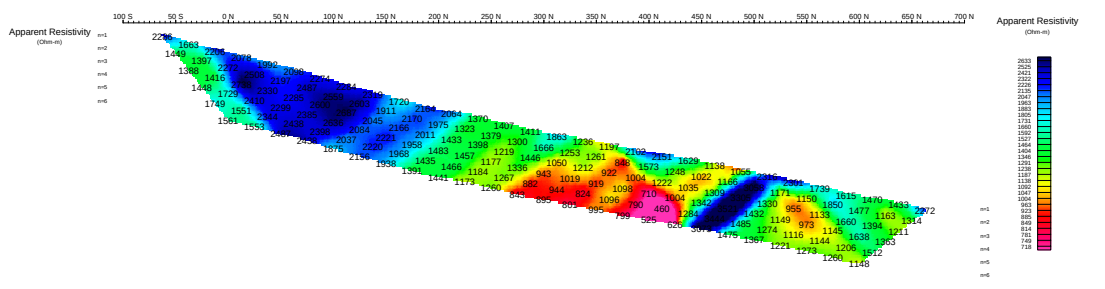
KLONDIKE STAR MINERAL CORP.

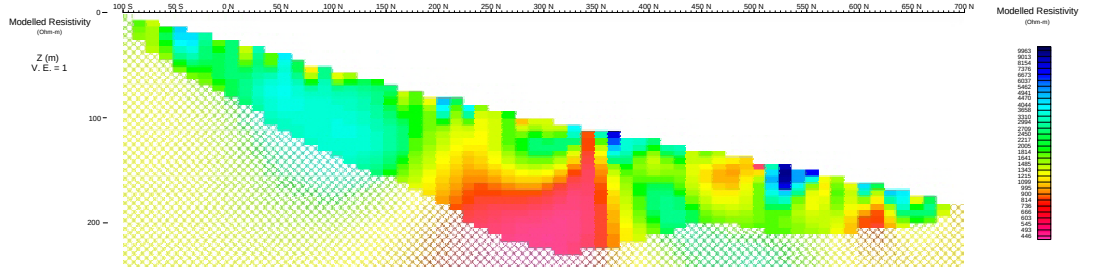
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L800 W

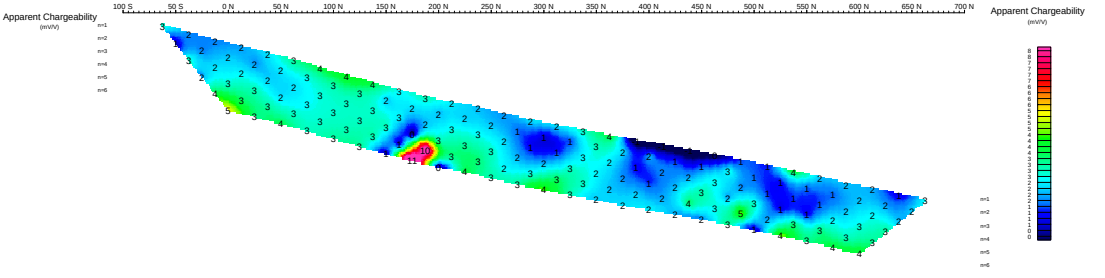
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

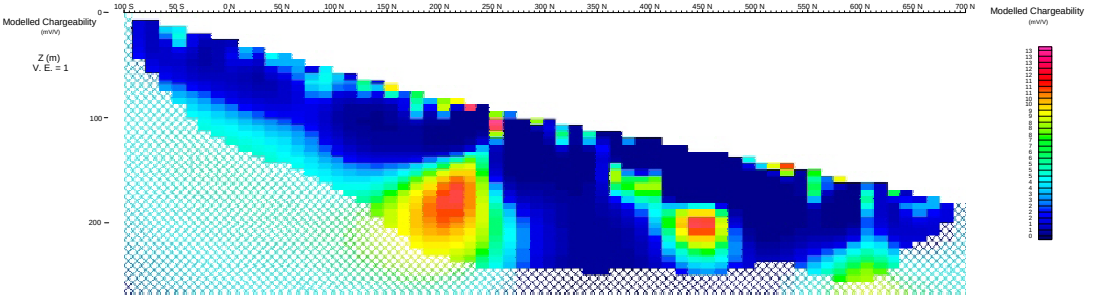
Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07
Appendix E

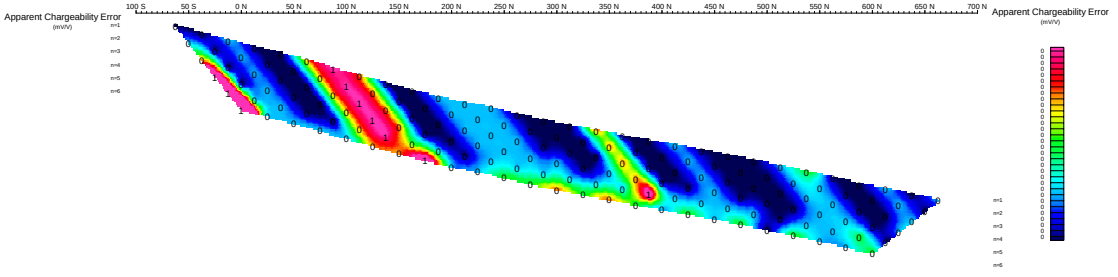
AURORA GEOSCIENCES LTD.





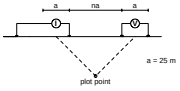




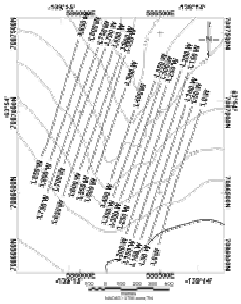


COMPOSITE SECTION
L850 W

Modified Dipole-Dipole Array



Stationary electrode at 100S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L850 W

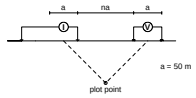
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07
Appendix E

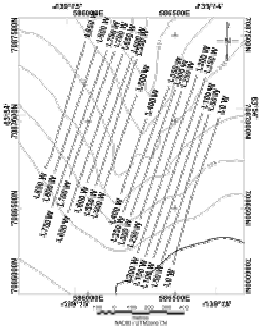
AURORA GEOSCIENCES LTD.

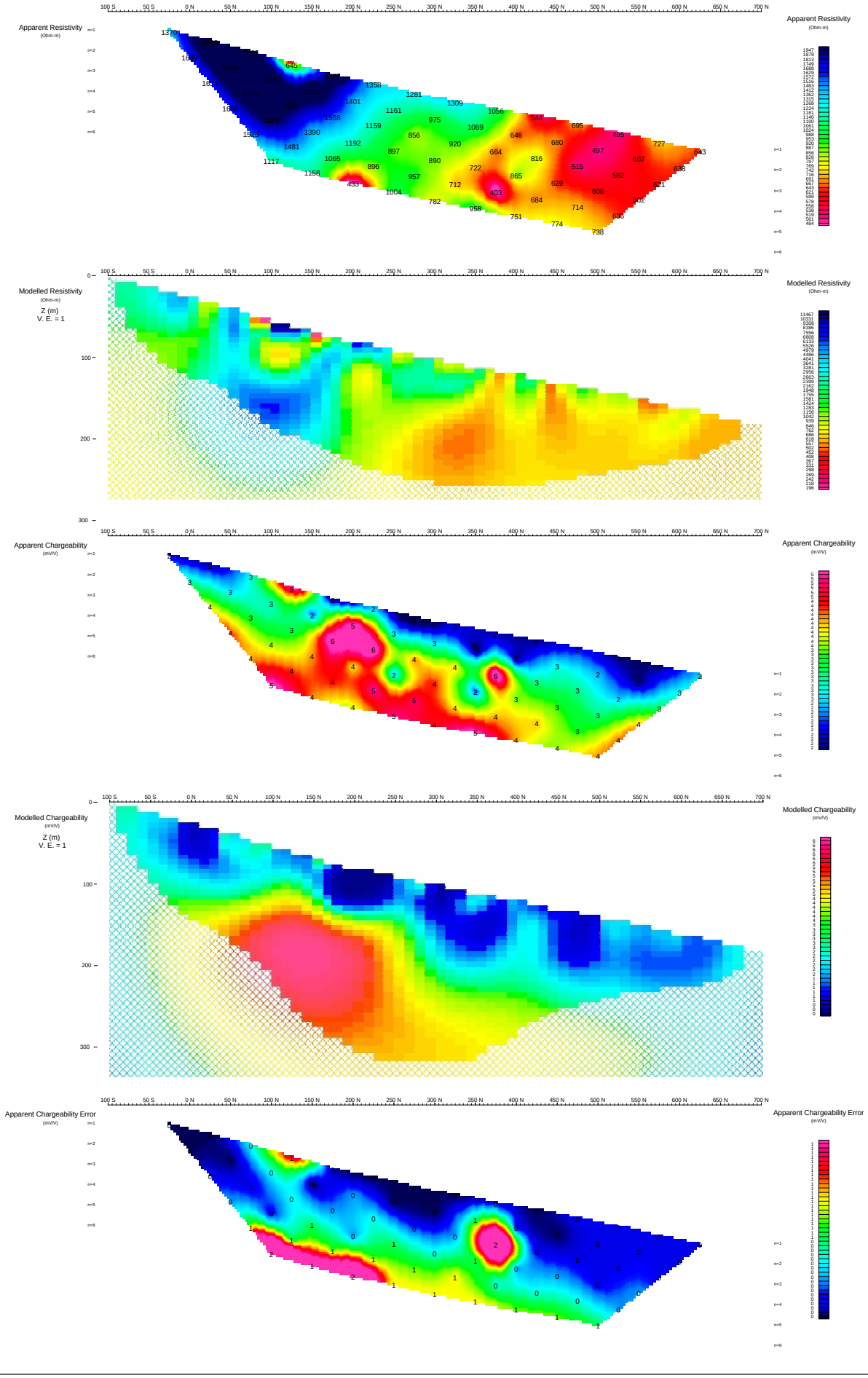
COMPOSITE SECTION
L850 W

Modified Dipole-Dipole Array



Stationary electrode at 100S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West Grid.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Vertical Exaggeration = 1.0

KLONDIKE STAR MINERAL CORP.

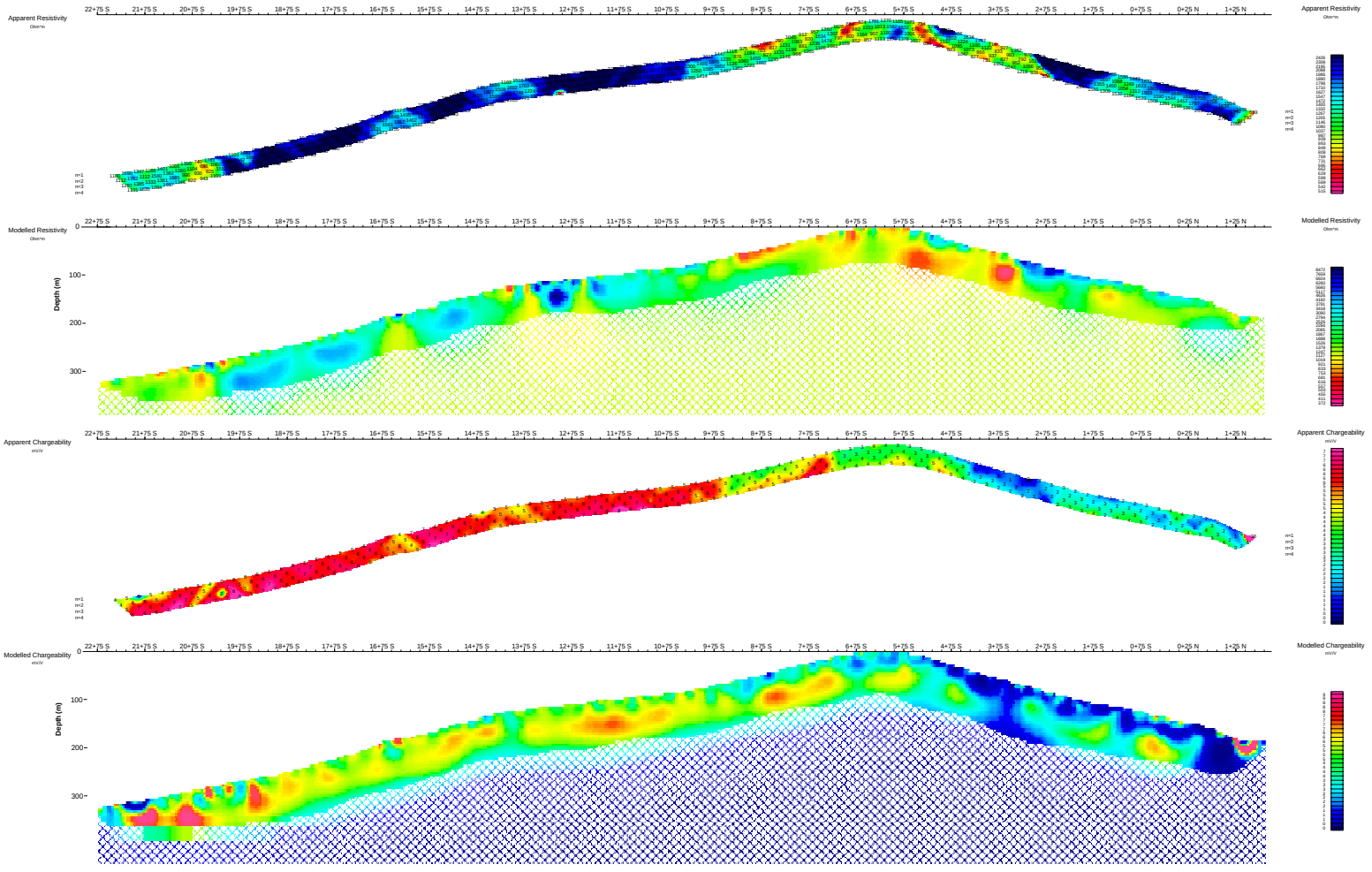
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
COMPOSITE SECTION L850 W

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: A. Lebel

Mining District: Dawson
Projection: UTM Zone 7
Date 09 Feb 07

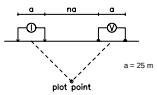
Appendix E

AURORA GEOSCIENCES LTD.



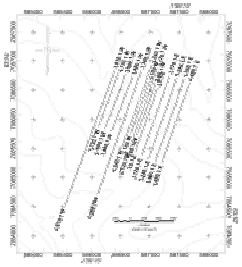
COMPOSITE SECTION
L8+10 W

Dipole-Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986



50 0 50 100 150 200 250 300
metres

Vertical Exaggeration = 1

KLONDIKE STAR MINERAL CORP.

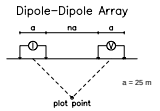
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L8+10 W

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

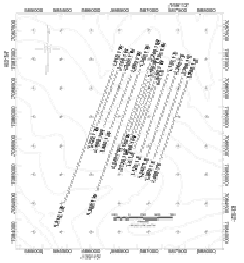
AURORA GEOSCIENCES LTD.

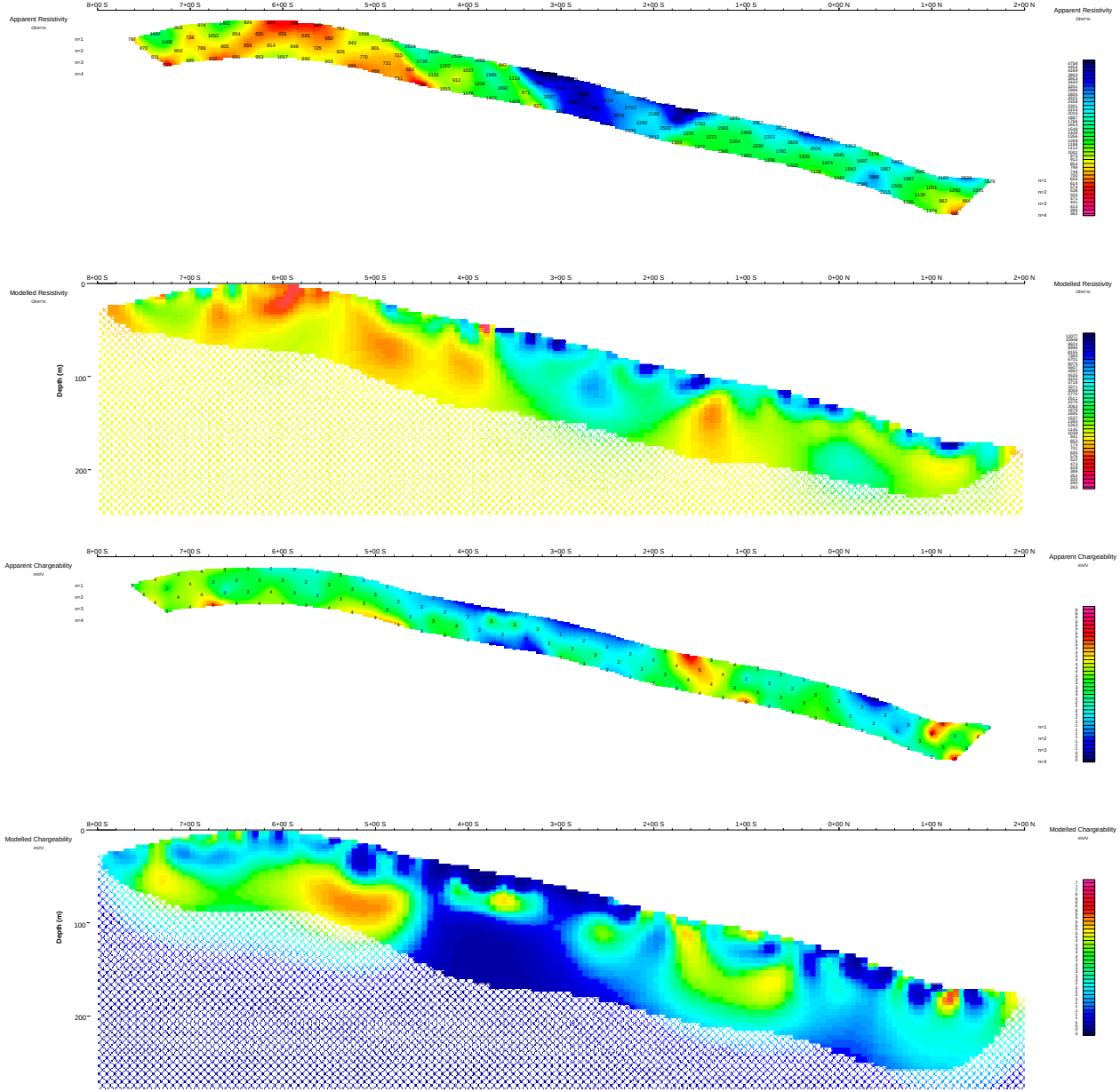
COMPOSITE SECTION
L7+20 W



Receiver: Huntec
Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986





25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L7+20 W

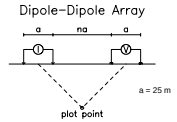
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

AURORA GEOSCIENCES LTD.

COMPOSITE SECTION
L6+00 W

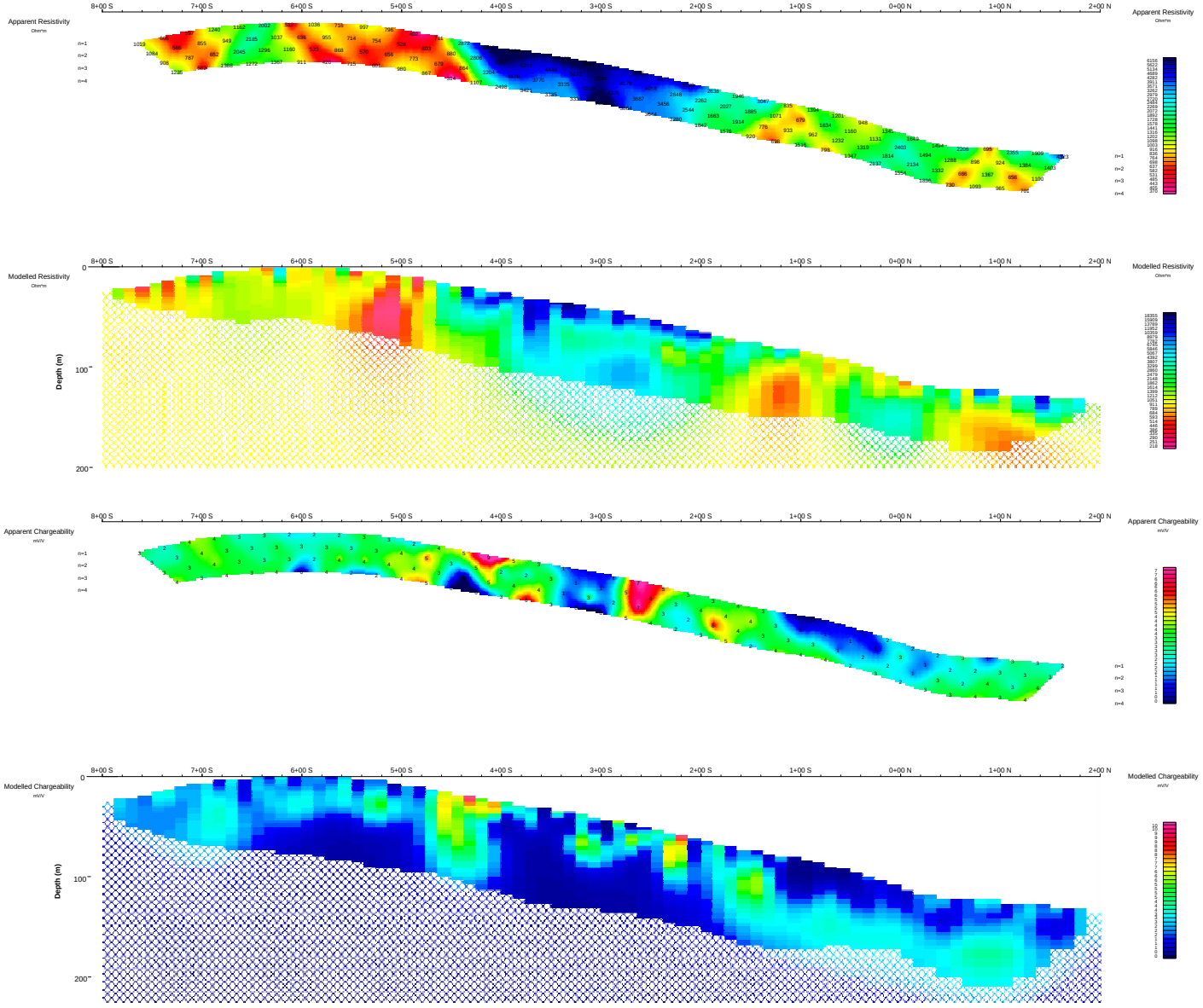
Dipole–Dipole Array

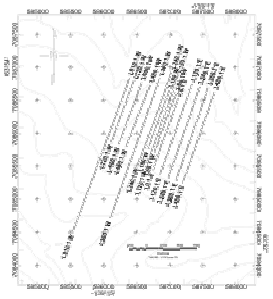


Receiver: Huntec

Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986





25 0 25 50 75 100 125 150

metres

Vertical Exaggeration = 1

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY

ELDORADO PROPERTY, 1987 LONESTAR GRID

COMPOSITE SECTION L6+00 W

NTS: 115 O/14 — Mining District: Dawson

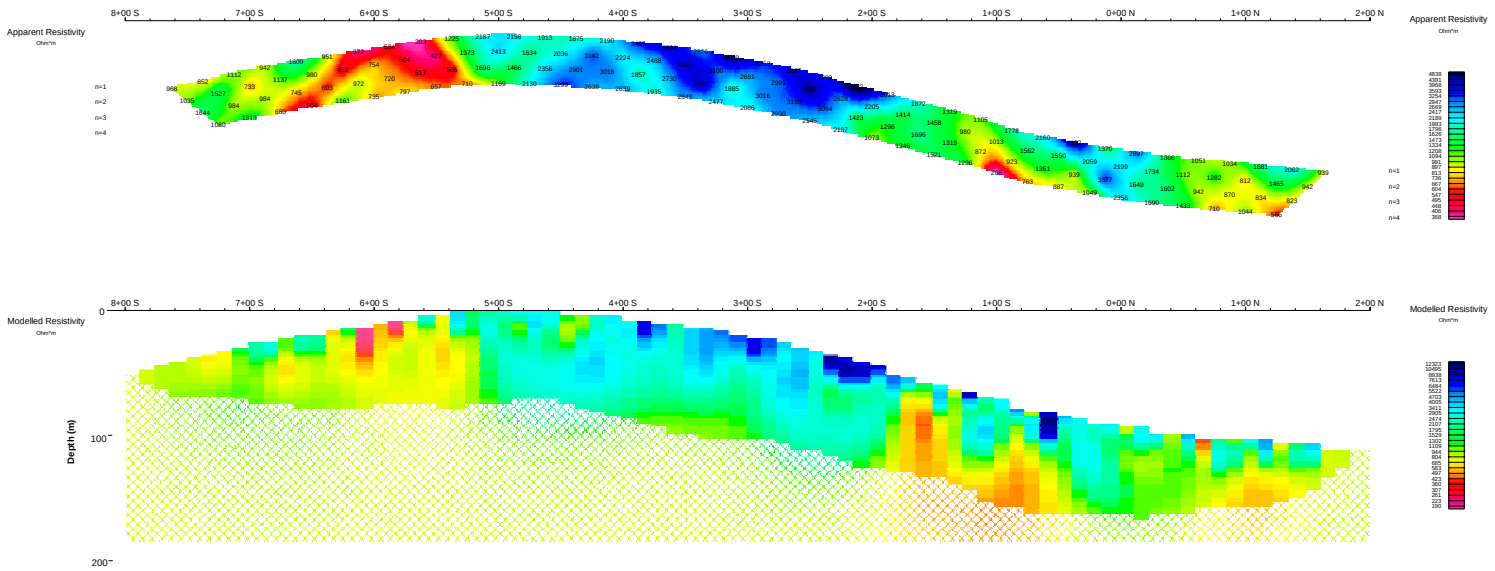
Datum: NAD 83 — Projection: UTM Zone 7

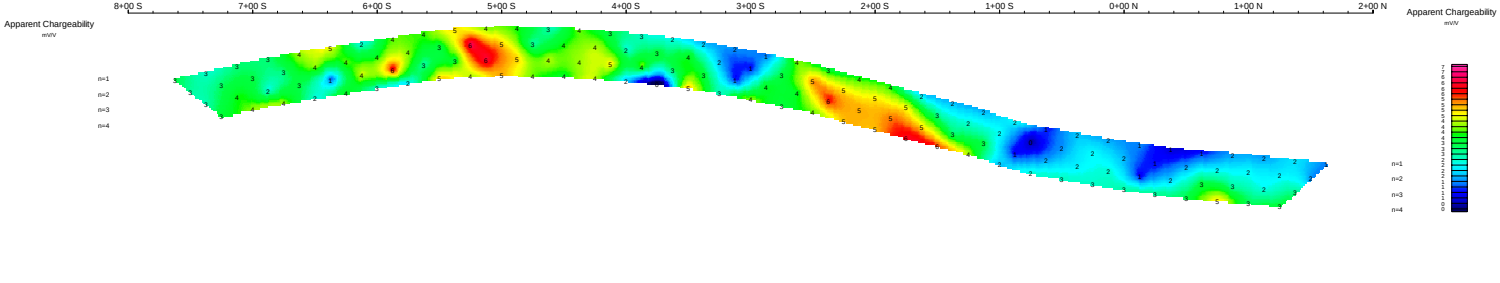
Job: KDS-06-02-YT — Date 8 Feb 07

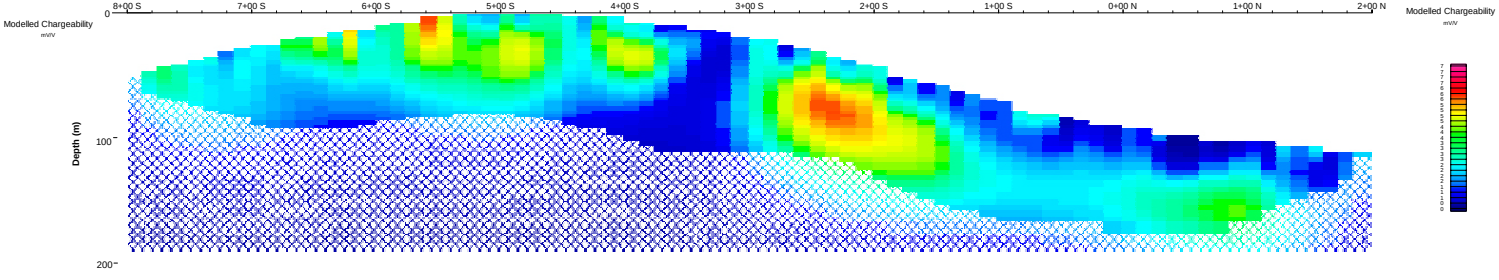
Drawn by: I.K. — APPENDIX E

AURORA GEOSCIENCES LTD.

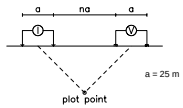
COMPOSITE SECTION
L4+80 W







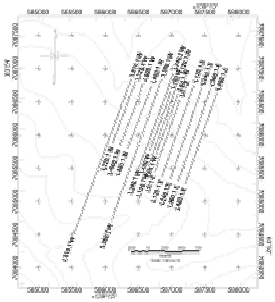
Dipole-Dipole Array



Receiver: Huntec

Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986



25 0 25 50 75 100 125 150

metres

Vertical Exaggeration = 1

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY

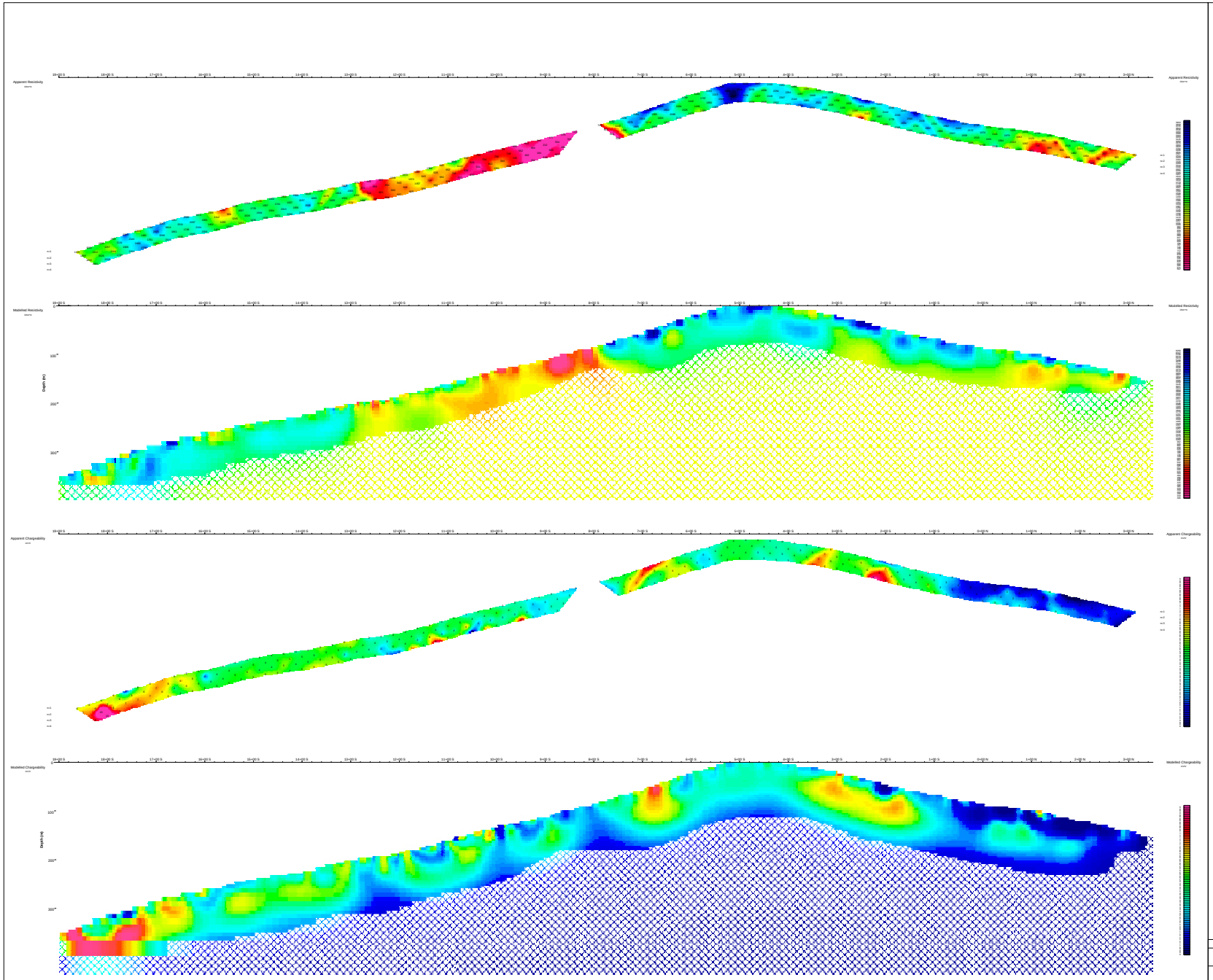
ELDORADO PROPERTY, 1987 LONESTAR GRID

COMPOSITE SECTION L4+80 W

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

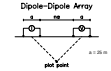
Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

AURORA GEOSCIENCES LTD.



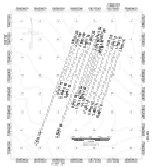
COMPOSITE SECTION
L3+60 W

Dipole-Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.5kW

Dates Surveyed : Jul 2- Dec 16, 1986



Vertical Exaggeration = 1

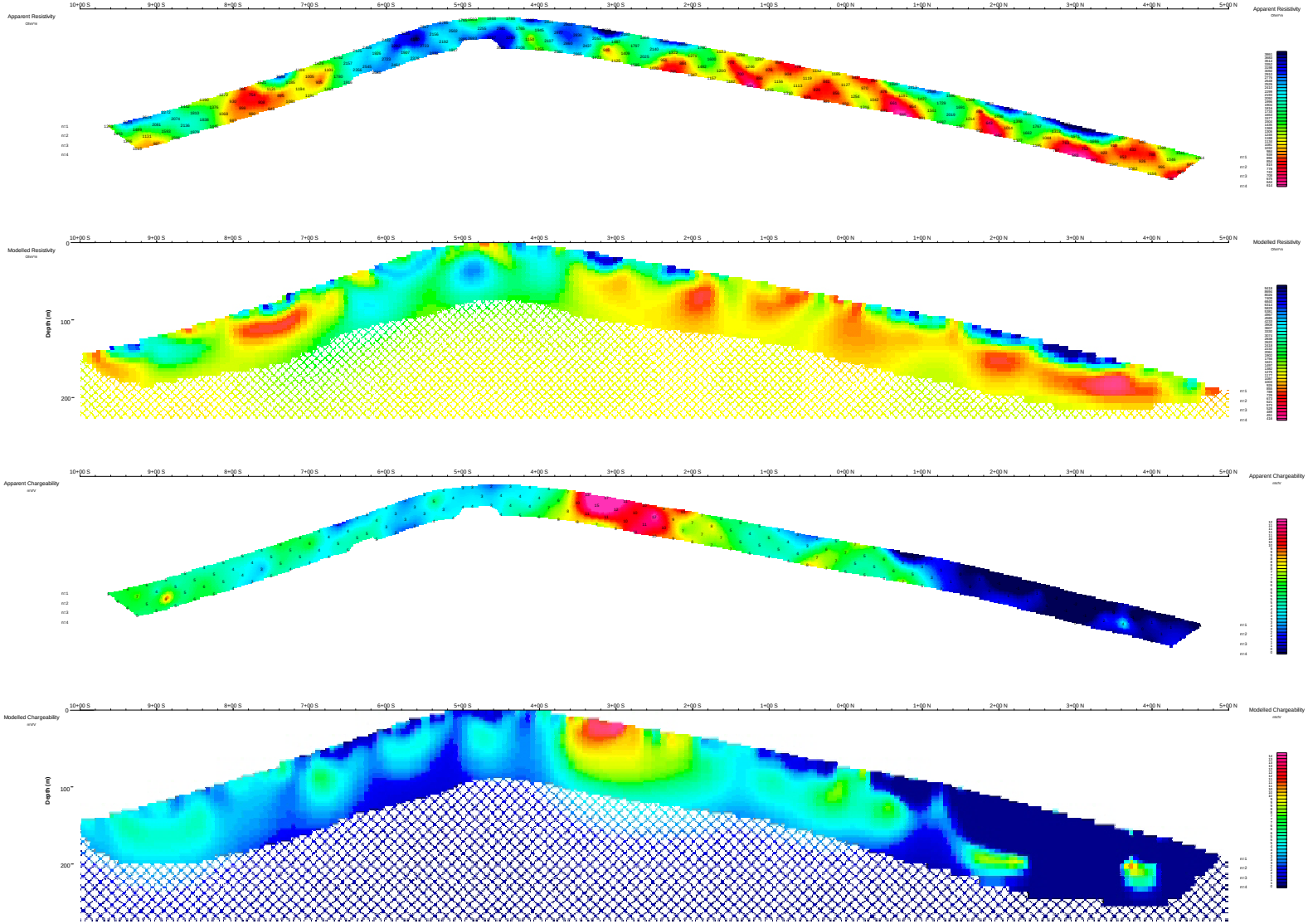
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L3+60 W

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: IK

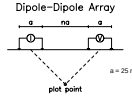
Mining District: Dawson
Projection: UTM Zone 7
Date: 8 Feb 07
APPENDIX E

AURORA GEOSCIENCES LTD.



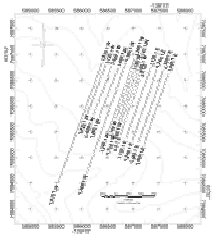
COMPOSITE SECTION
L2+40 W

Dipole-Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1

KLONDIKE STAR MINERAL CORP.

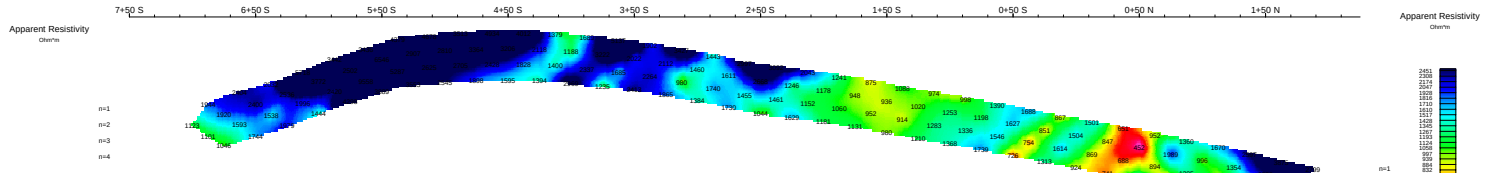
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L2+40 W

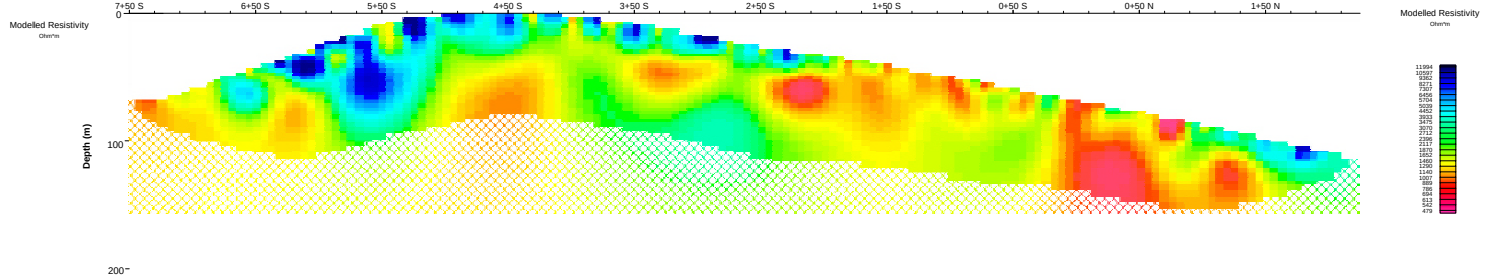
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

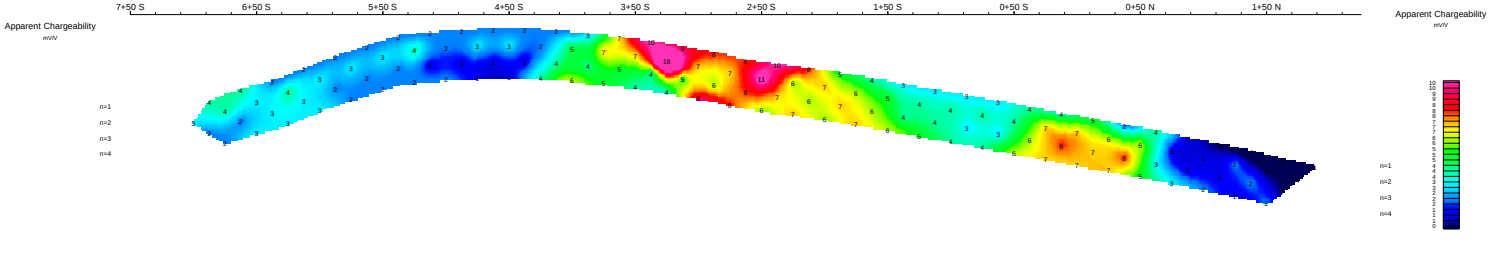
Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

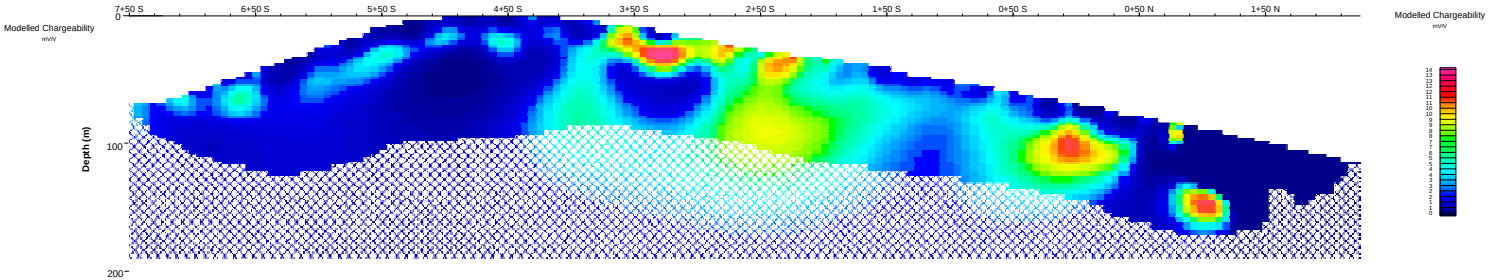
AURORA GEOSCIENCES LTD.

COMPOSITE SECTION
L1+80 W

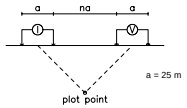








Dipole–Dipole Array

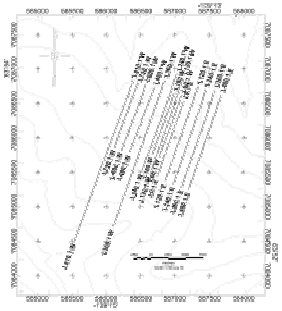


Receiver: Huntec

Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986

Vertical Exaggeration = 1



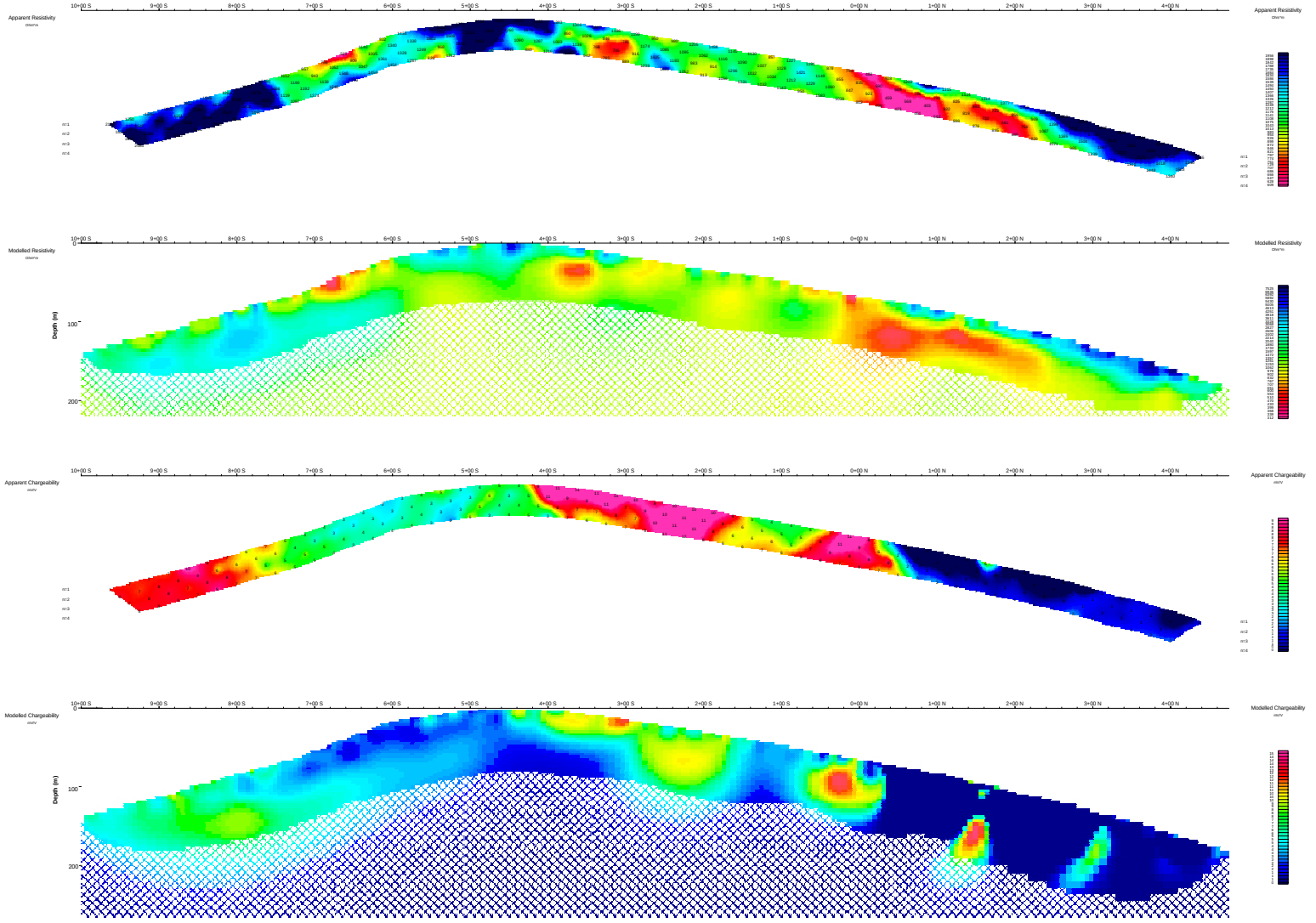
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L1+80 W

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

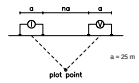
Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

AURORA GEOSCIENCES LTD.



COMPOSITE SECTION
L1+20 W

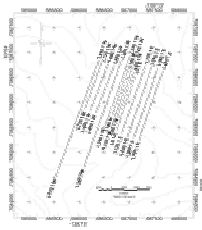
Dipole–Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986

Vertical Exaggeration = 1



25 0 25 50 75 100 125 150
metres

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L1+20 W

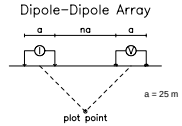
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

AURORA GEOSCIENCES LTD.

COMPOSITE SECTION
L0+60 W

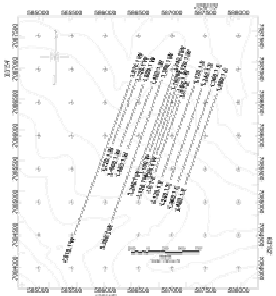
Dipole-Dipole Array

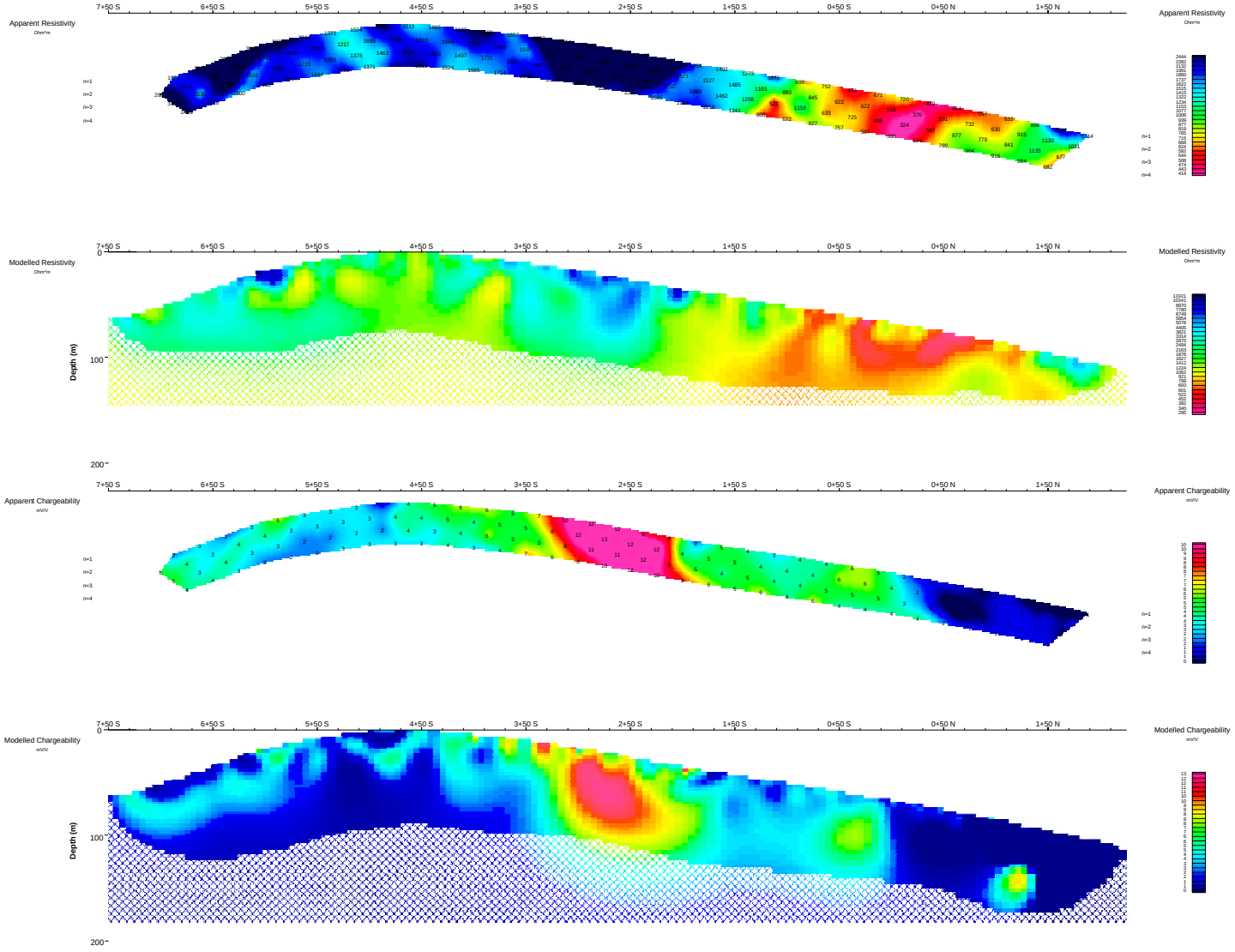


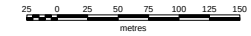
Receiver: Huntec
Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986

Vertical Exaggeration = 1







KLONDIKE STAR MINERAL CORP.

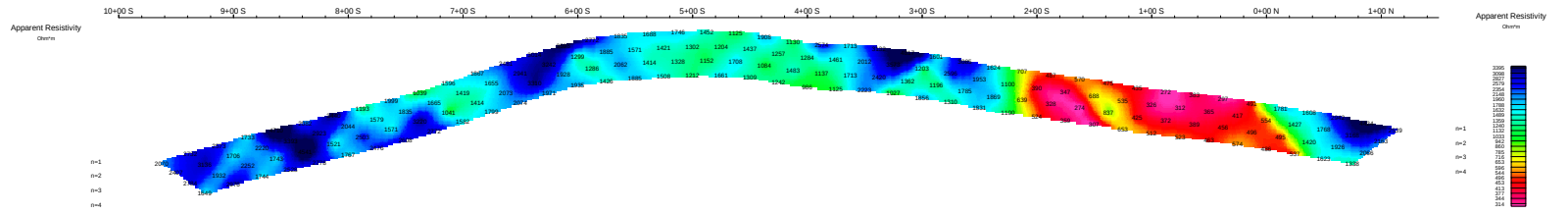
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L0+60 W

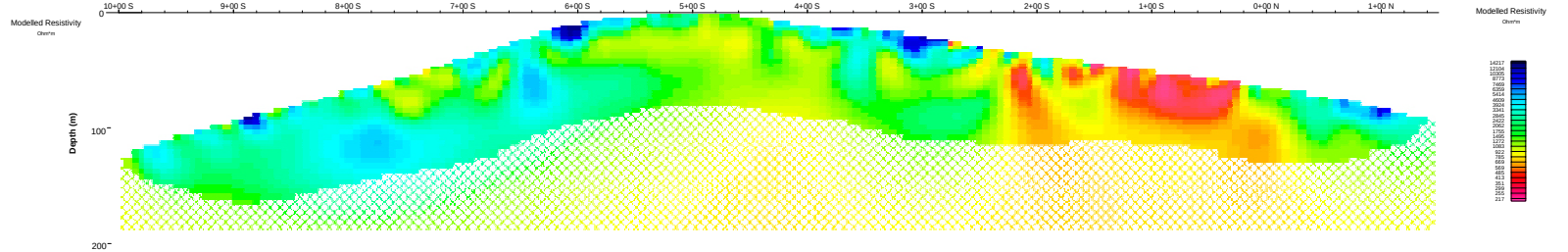
NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

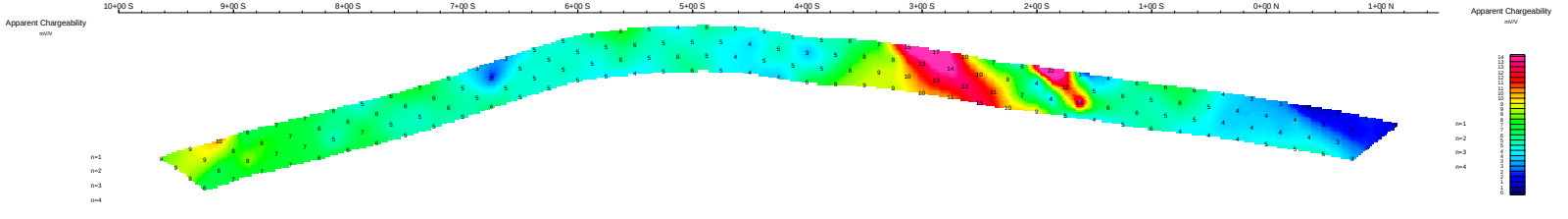
Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

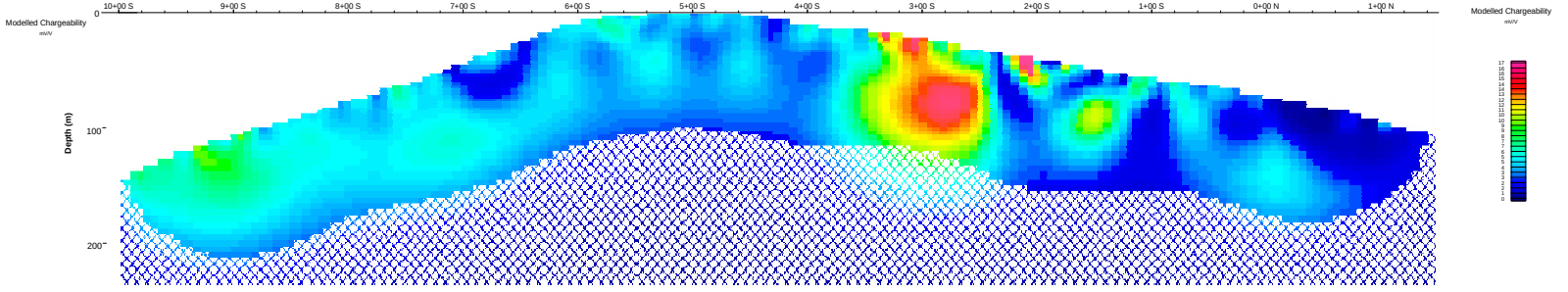
AURORA GEOSCIENCES LTD.

COMPOSITE SECTION
L0+00 E

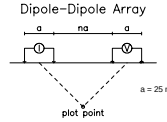






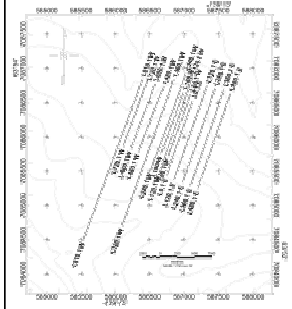


Dipole–Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986



25 0 25 50 75 100 125 150
metres
Vertical Exaggeration = 1

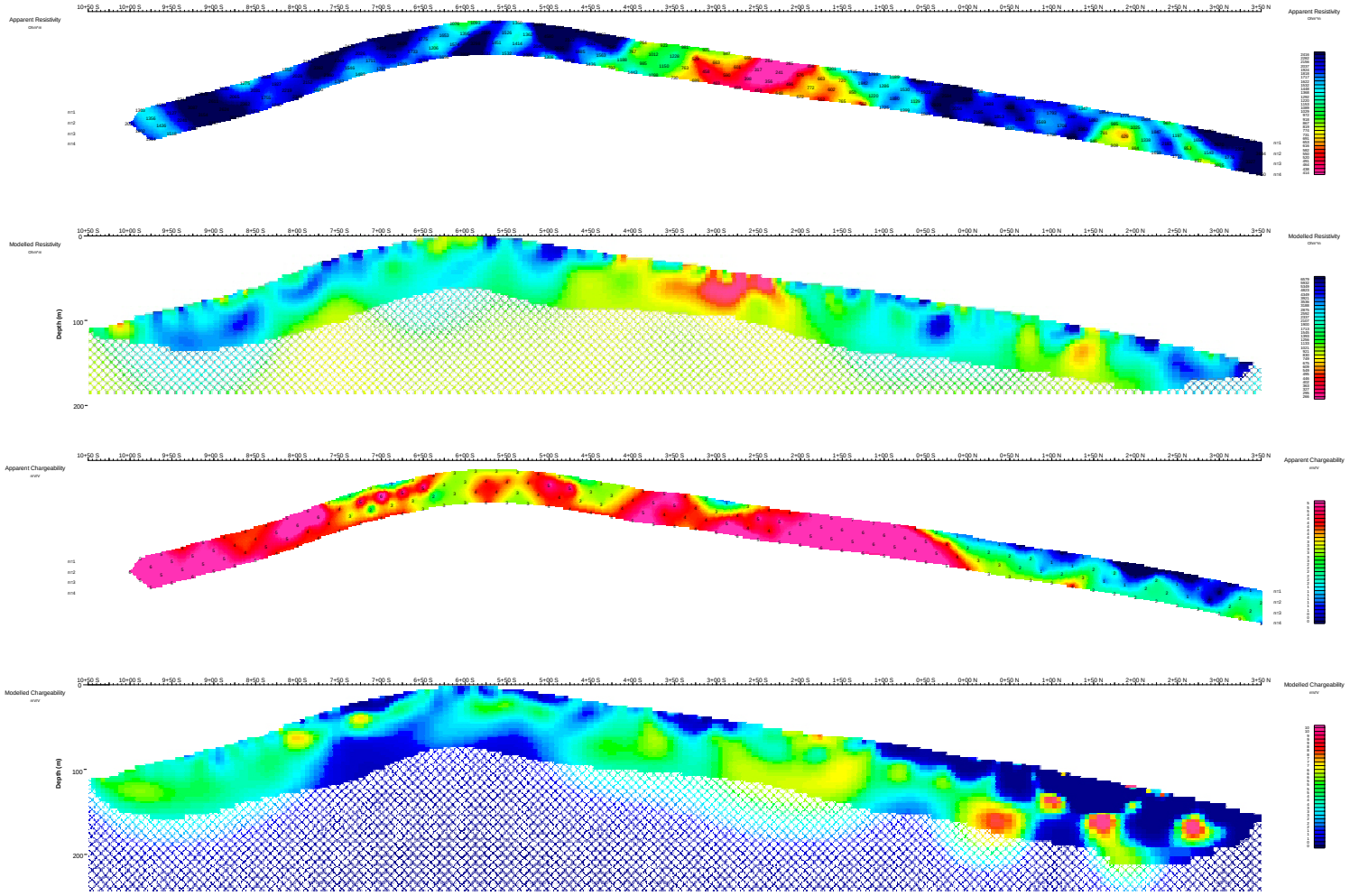
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L0+00 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

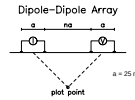
Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

AURORA GEOSCIENCES LTD.



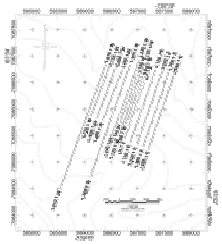
COMPOSITE SECTION
L1+20 E

Dipole-Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986



25 0 25 50 75 100 125 150
metres

Vertical Exaggeration = 1

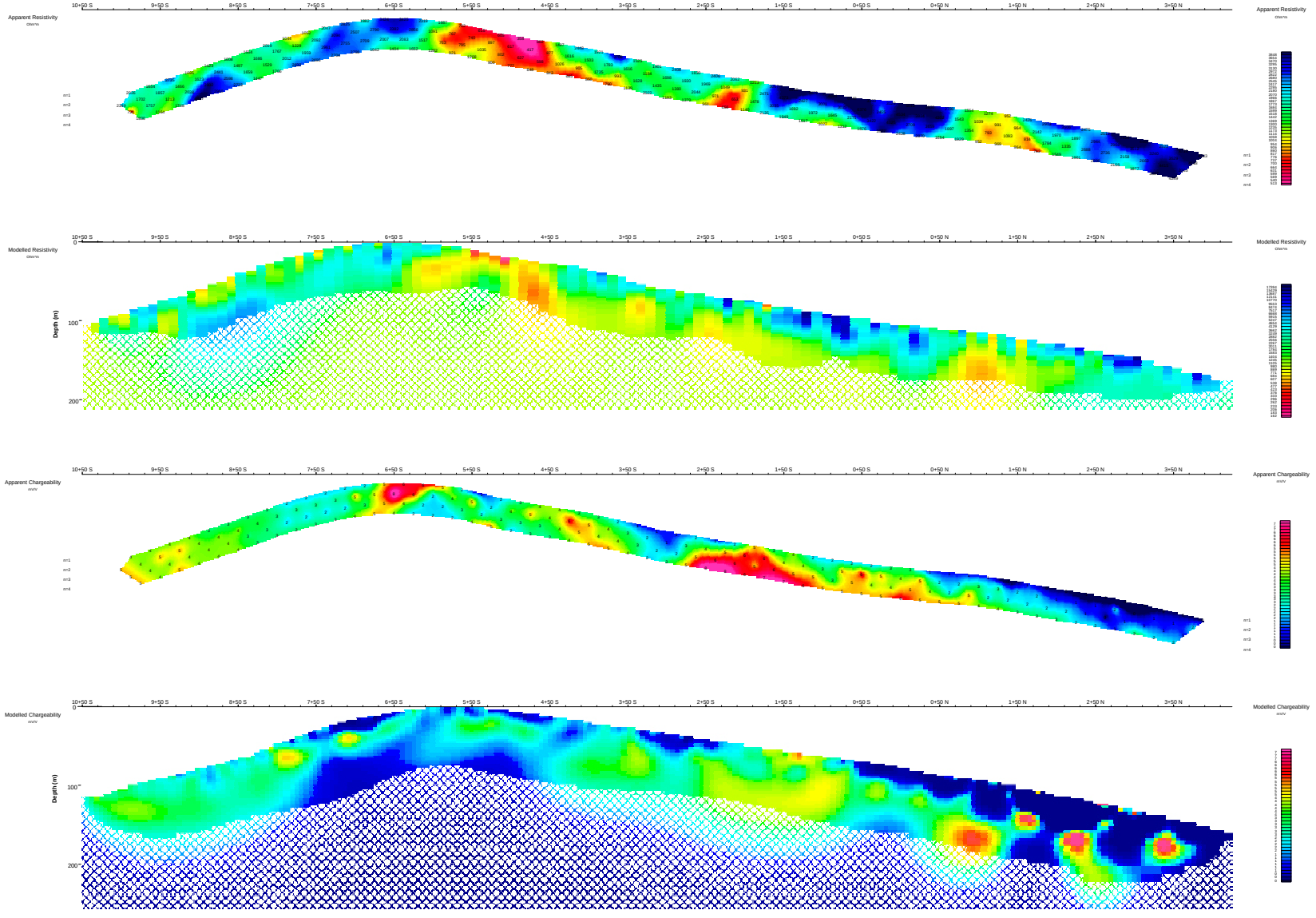
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L1+20 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

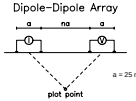
Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

AURORA GEOSCIENCES LTD.



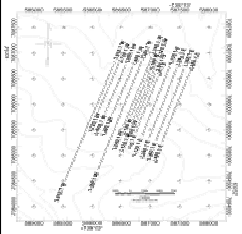
COMPOSITE SECTION
L2+40 E

Dipole-Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986



Vertical Exaggeration = 1

25 0 25 50 75 100 125 150
metres

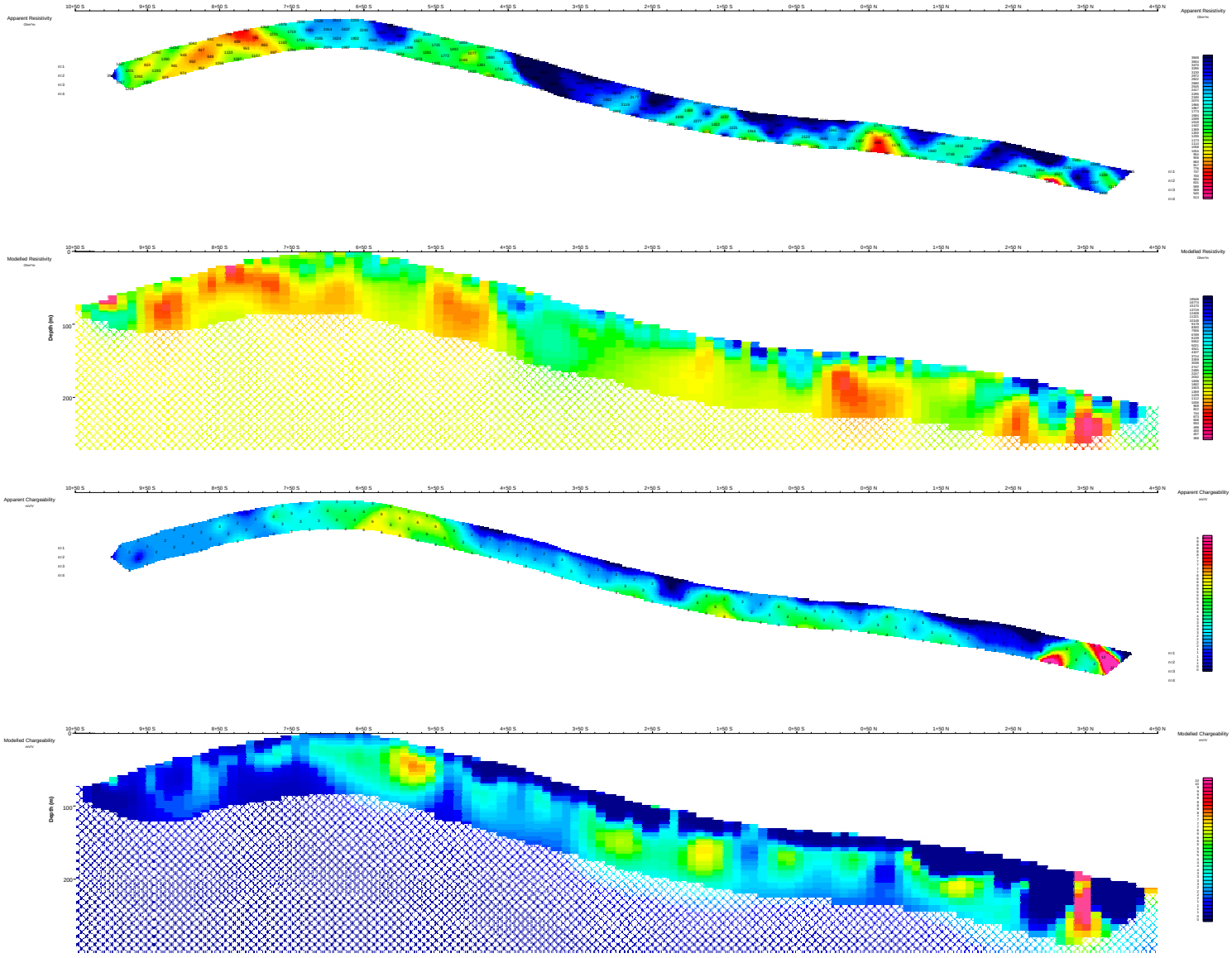
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L2+40 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

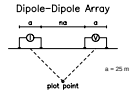
Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

AURORA GEOSCIENCES LTD.



COMPOSITE SECTION
L3+60 E

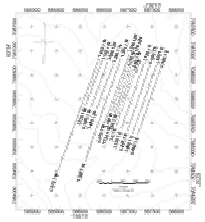
Dipole–Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986

Vertical Exaggeration = 1



25 0 25 50 75 100 125 150
metres

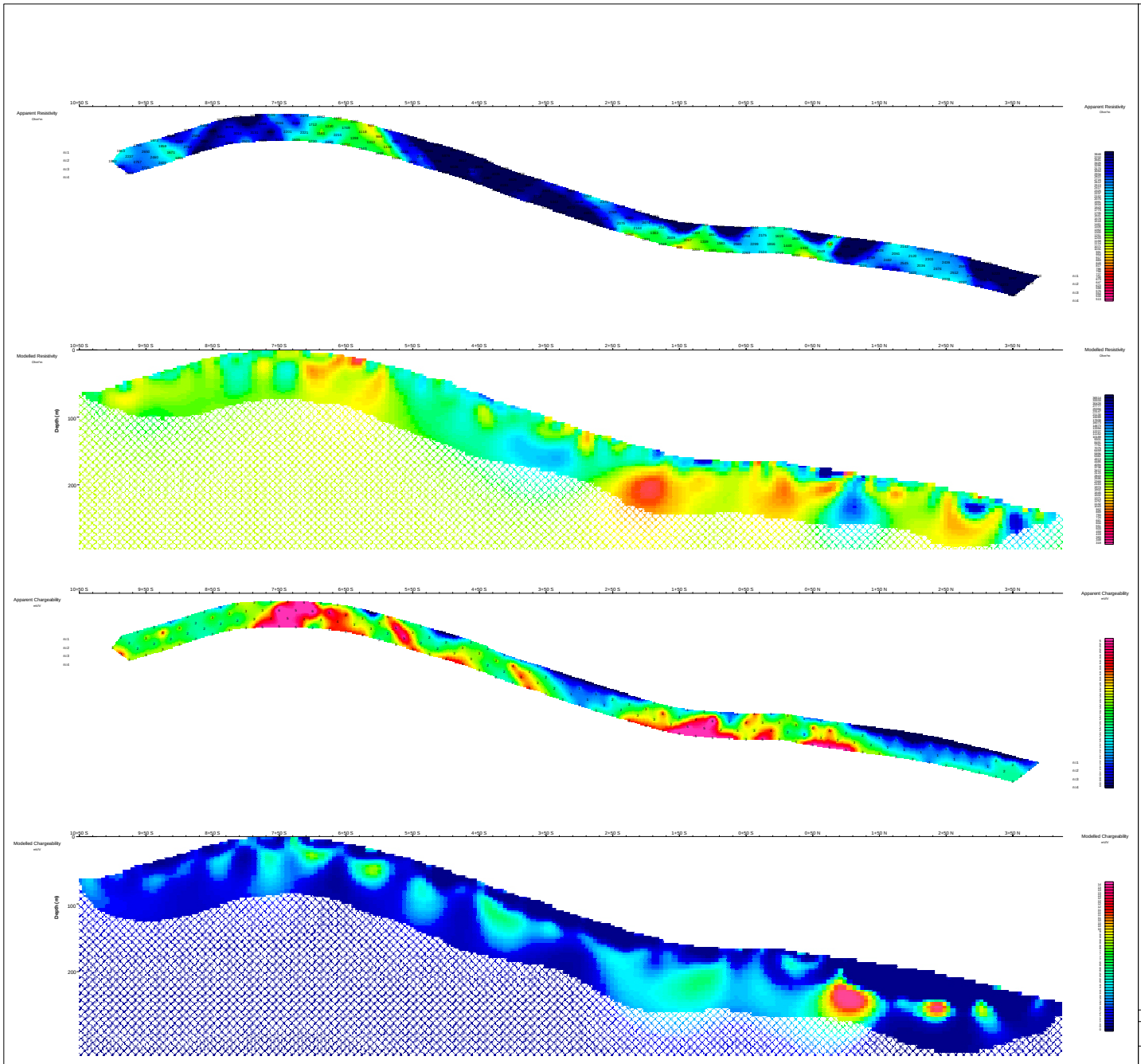
KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L3+60 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

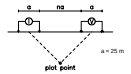
Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

AURORA GEOSCIENCES LTD.



COMPOSITE SECTION
L4+80 E

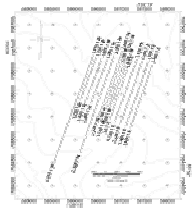
Dipole–Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW

Dates Surveyed : Jun 2 -Dec 16, 1986

Vertical Exaggeration = 1



KLONDIKE STAR MINERAL CORP.

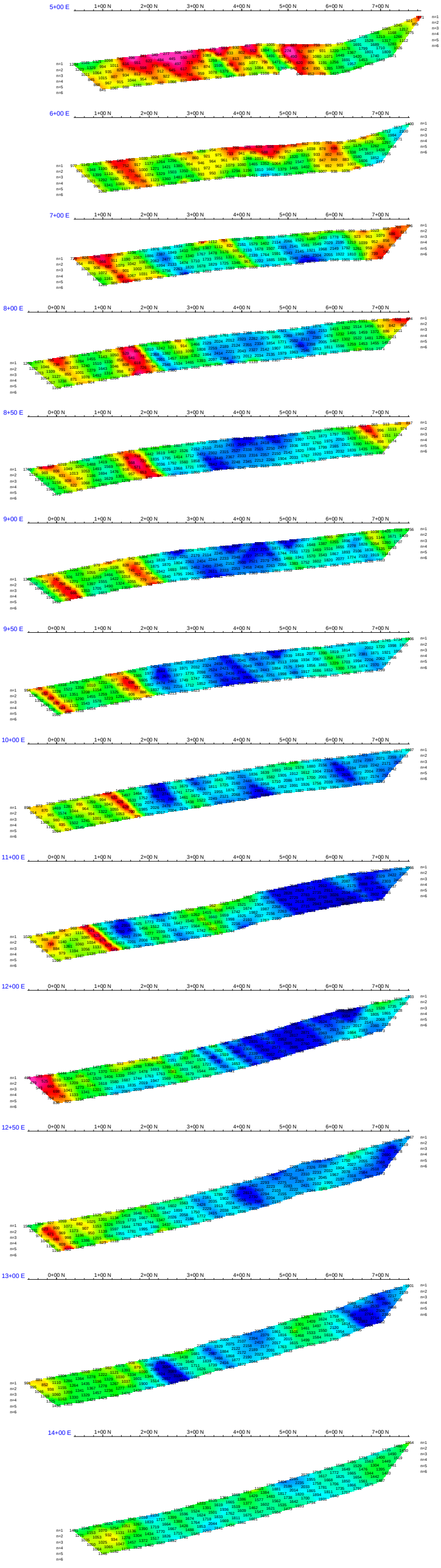
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 LONESTAR GRID
COMPOSITE SECTION L4+80 E

NTS: 115 O/14
Datum: NAD 83
Job: KDS-06-02-YT
Drawn by: I.K.

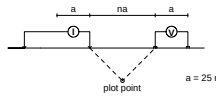
Mining District: Dawson
Projection: UTM Zone 7
Date 8 Feb 07
APPENDIX E

AURORA GEOSCIENCES LTD.

STACKED APPARENT RESISTIVITY



Modified Pole-Dipole Array



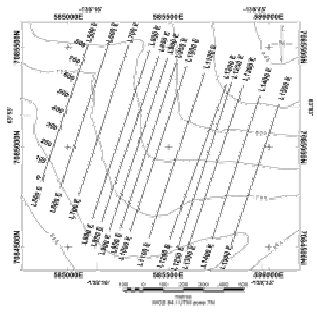
Stationary electrode at north end of lines moving south.

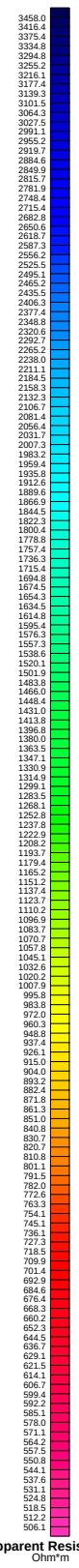
Receiver: Iris ElrecPro

Transmitter: GDD Tx-II 3.6kW

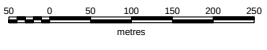
Data File: Buckland 2006 IP.xyz

Dates Surveyed : Aug 22 to Sept 25, 2006





Apparent Resistivity
Ohm*m

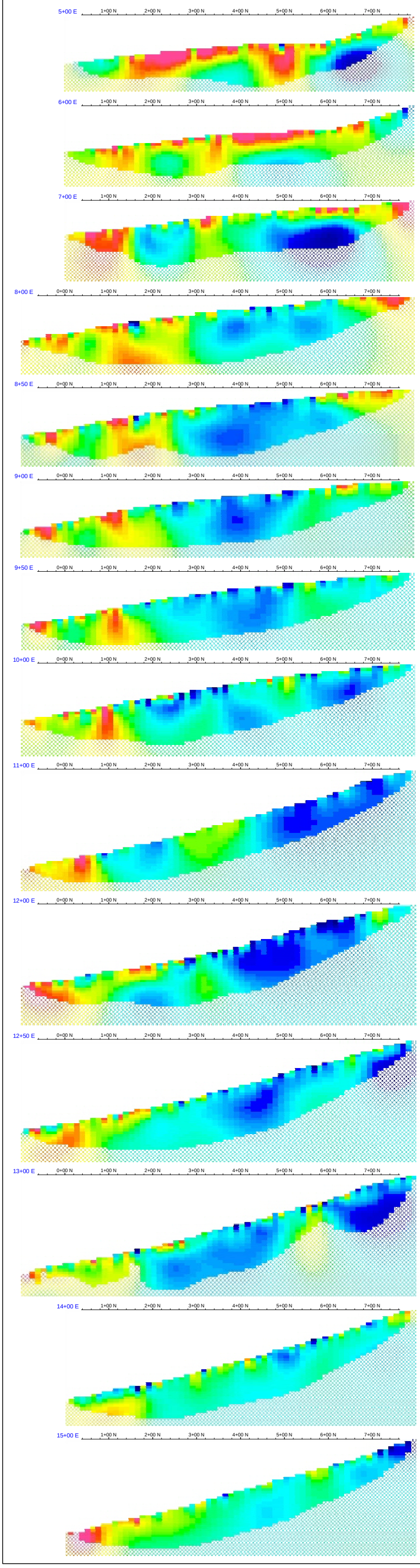


KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
APPARENT RESISTIVITY PSEUDOSECTIONS

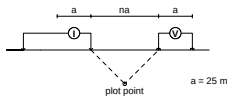
NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date 29 Jan 07
Drawn by: H.D.S. — APPENDIX: F

AURORA GEOSCIENCES LTD.

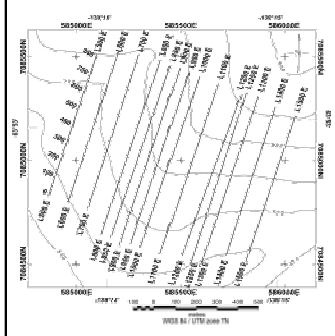


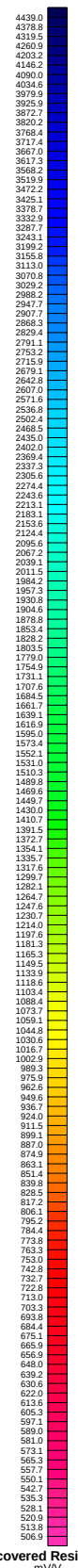
STACKED RECOVERED RESISTIVITY

Modified Pole-Dipole Array

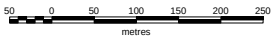


Stationary electrode at north end of lines moving south.
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Buckland 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Recovered Resistivity
mV/V



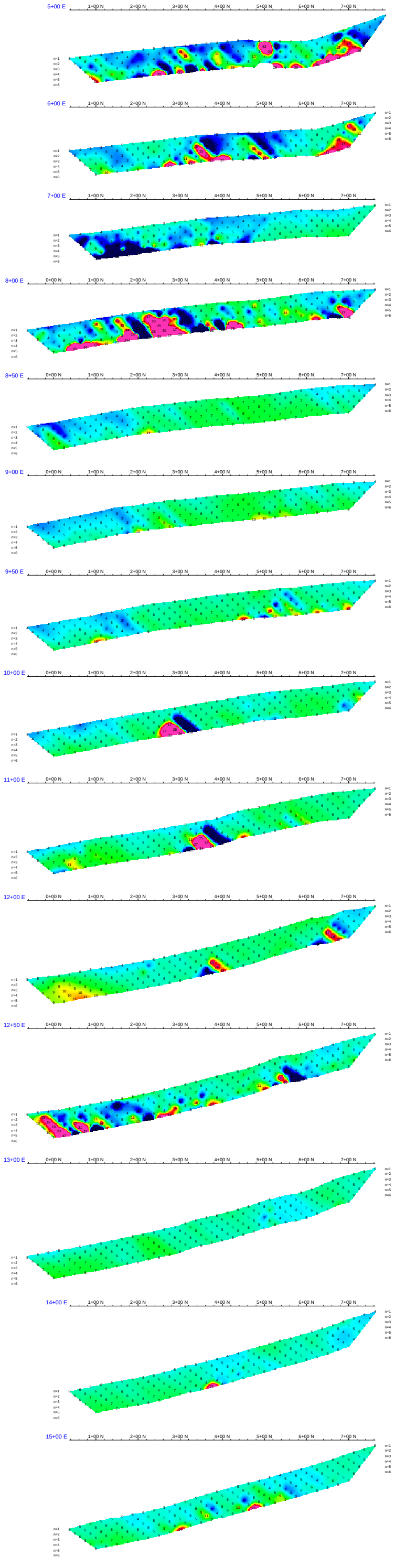
no vertical exaggeration

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
RECOVERED RESISTIVITY MODELS

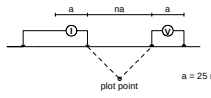
NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date 29 Jan 07
Drawn by: H.D.S. — APPENDIX: F

AURORA GEOSCIENCES LTD.

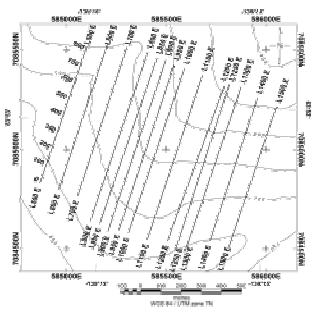


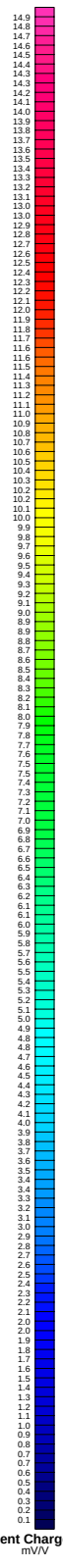
STACKED APPARENT CHARGEABILITY

Modified Pole-Dipole Array

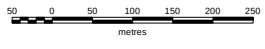


Stationary electrode at south end of lines moving north.
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Buckland 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Apparent Chargeability
mV/V

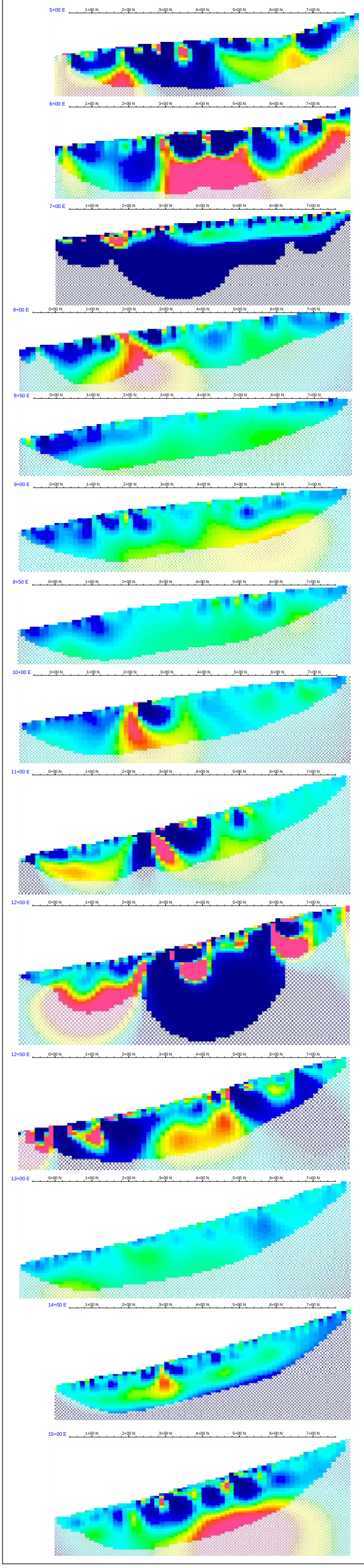


KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
APPARENT CHARGEABILITY PSEUDOSECTIONS

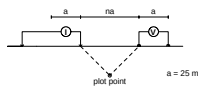
NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date 29 Jan 07
Drawn by: H.D.S. — APPENDIX: F

AURORA GEOSCIENCES LTD.

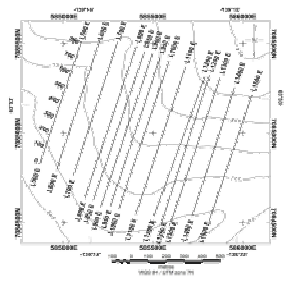


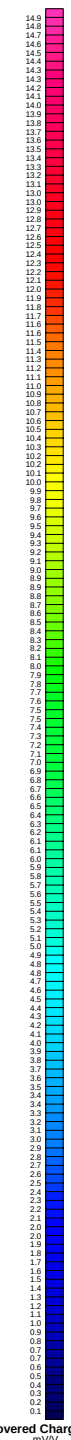
STACKED RECOVERED CHARGEABILITY

Modified Pole-Dipole Array



Stationary electrode at north end of line moving south.
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Buckland 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Recovered Chargeability
mV/V

50 0 50 100 150 200 250
metres

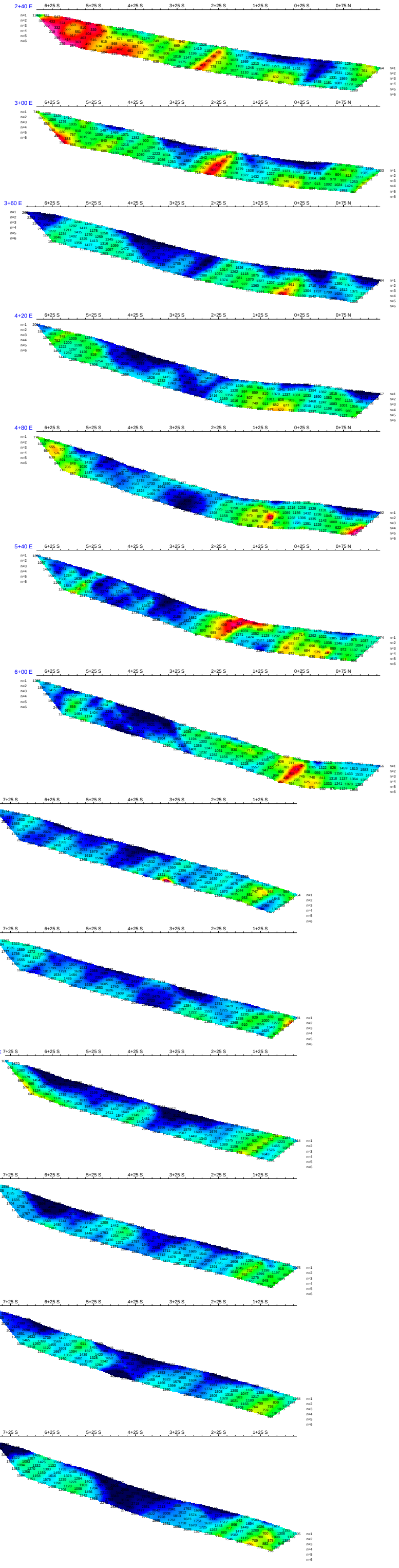
no vertical exaggeration

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, BUCKLAND GRID
RECOVERED CHARGEABILITY MODELS

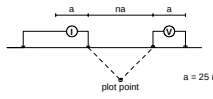
NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date 29 Jan 07
Drawn by: H.D.S. — APPENDIX: F

AURORA GEOSCIENCES LTD.

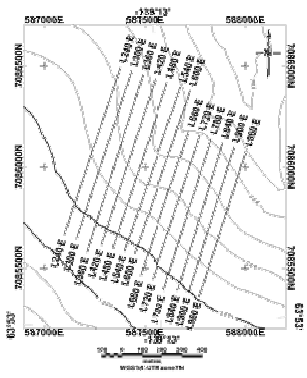


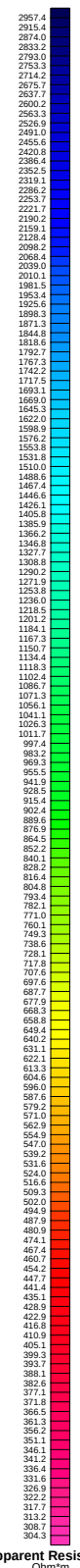
STACKED APPARENT RESISTIVITY

Modified Pole-Dipole Array

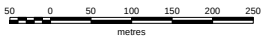


Stationary electrode at south end of lines moving north.
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Apparent Resistivity
Ohm*m

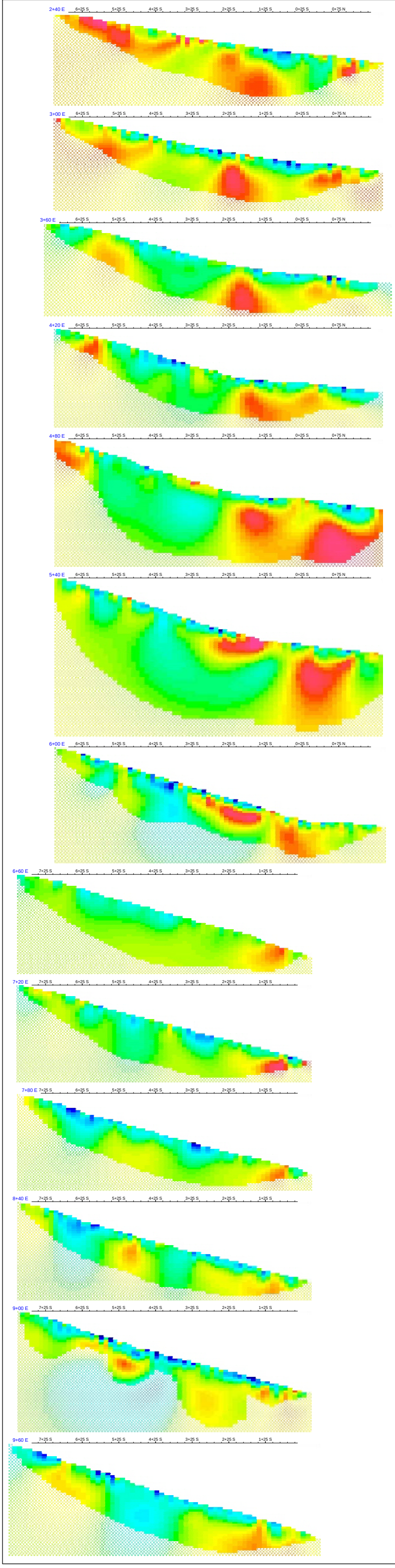


KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
APPARENT RESISTIVITY PSEUDOSECTIONS

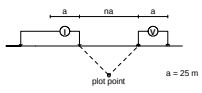
NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date: 01 Feb 07
Drawn by: H.D.S. — APPENDIX: F

AURORA GEOSCIENCES LTD.

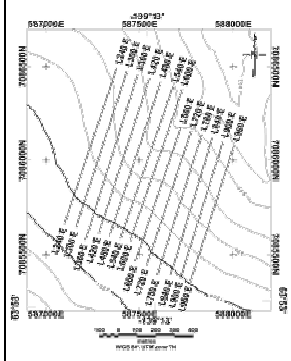


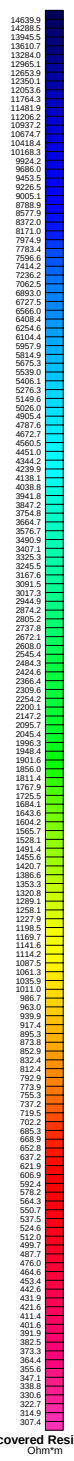
STACKED RECOVERED RESISTIVITY

Modified Pole-Dipole Array



Stationary electrode at south end of lines moving north.
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Recovered Resistivity
Ohm*m

50 0 50 100 150 200 250
metres

no vertical exaggeration

KLONDIKE STAR MINERAL CORP.

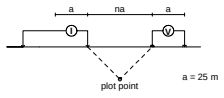
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
RECOVERED RESISTIVITY MODELS

NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date: 01 Feb 07
Drawn by: H.D.S. — APPENDIX: F

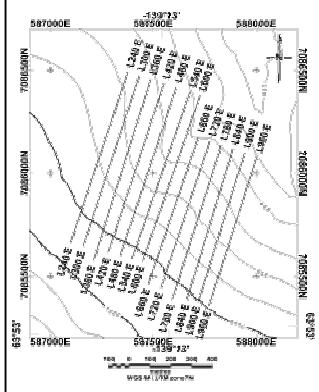
AURORA GEOSCIENCES LTD.

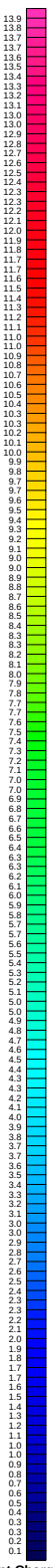
STACKED APPARENT CHARGEABILITY

Modified Pole-Dipole Array



Stationary electrode at south end of lines moving north.
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





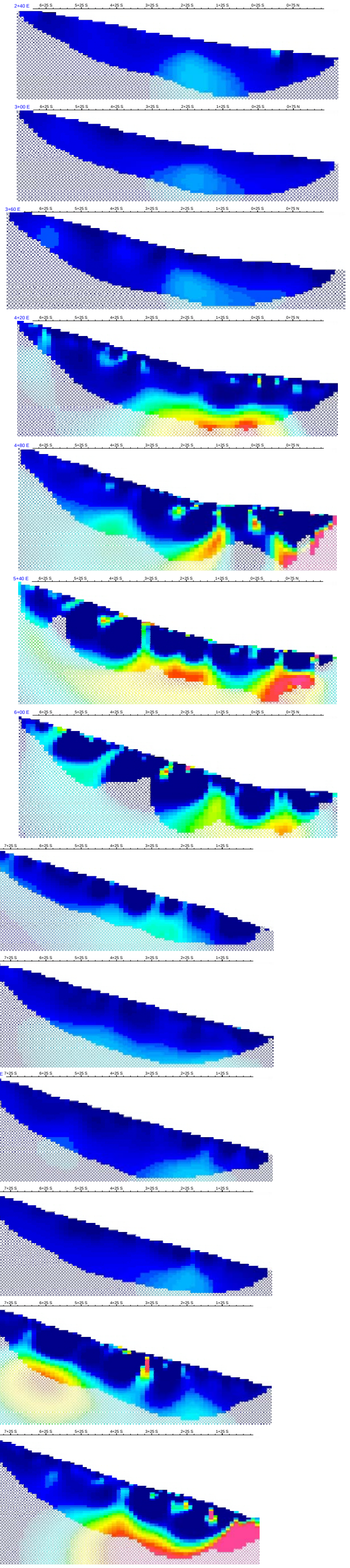
50 0 50 100 150 200 250
metres

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
APPARENT CHARGEABILITY PSEUDOSECTIONS

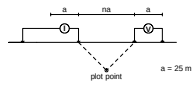
NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date: 01 Feb 07
Drawn by: H.D.S. — APPENDIX: F

AURORA GEOSCIENCES LTD.

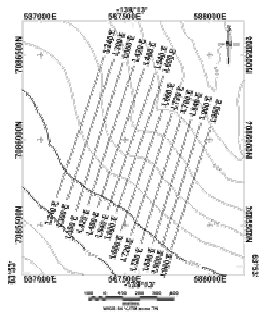


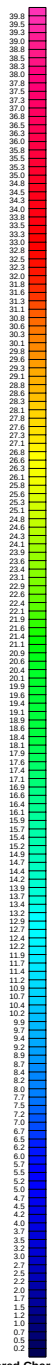
STACKED RECOVERED CHARGEABILITY

Modified Pole-Dipole Array



Stationary electrode at south end of line moving north.
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar East 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Recovered Chargeability
mV/V

50 0 50 100 150 200 250
metres

no vertical exaggeration

KLONDIKE STAR MINERAL CORP.

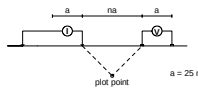
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR EAST GRID
RECOVERED CHARGEABILITY MODELS

NTS: 115 O/14 Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT Date: 30 Jan 07
Drawn by: H.D.S. APPENDIX: F

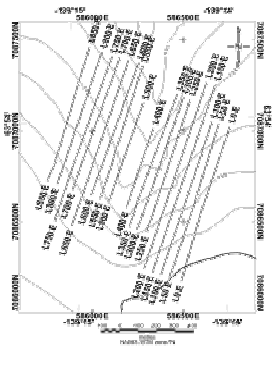
AURORA GEOSCIENCES LTD.

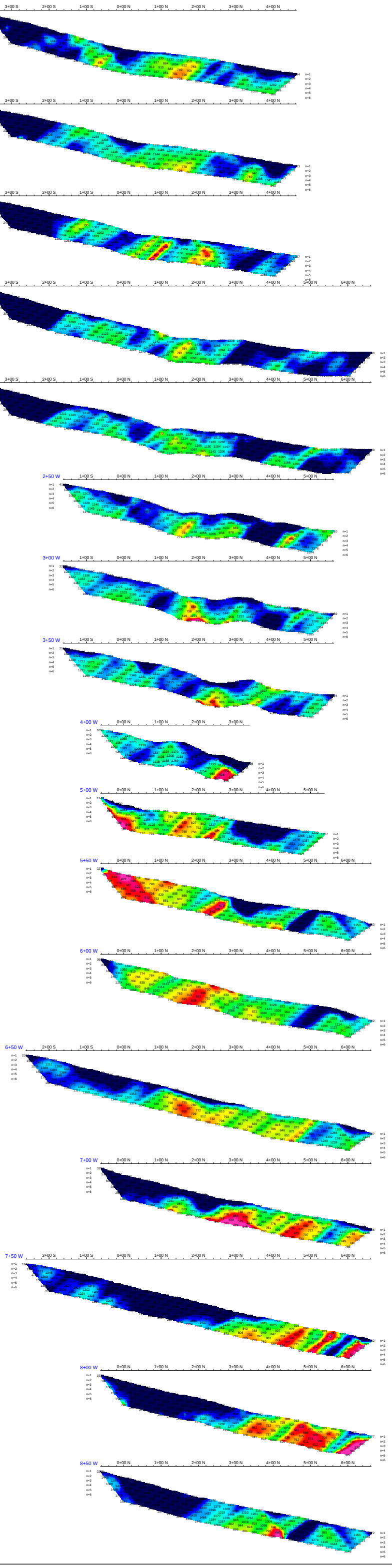
STACKED APPARENT RESISTIVITY

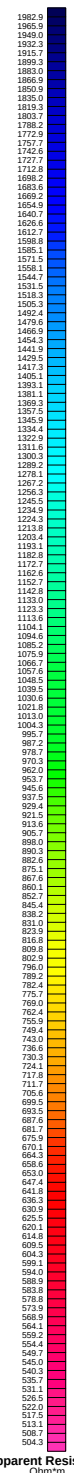
Modified Pole-Dipole Array

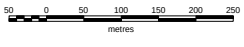


Stationary electrode at south end of lines moving north.
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006







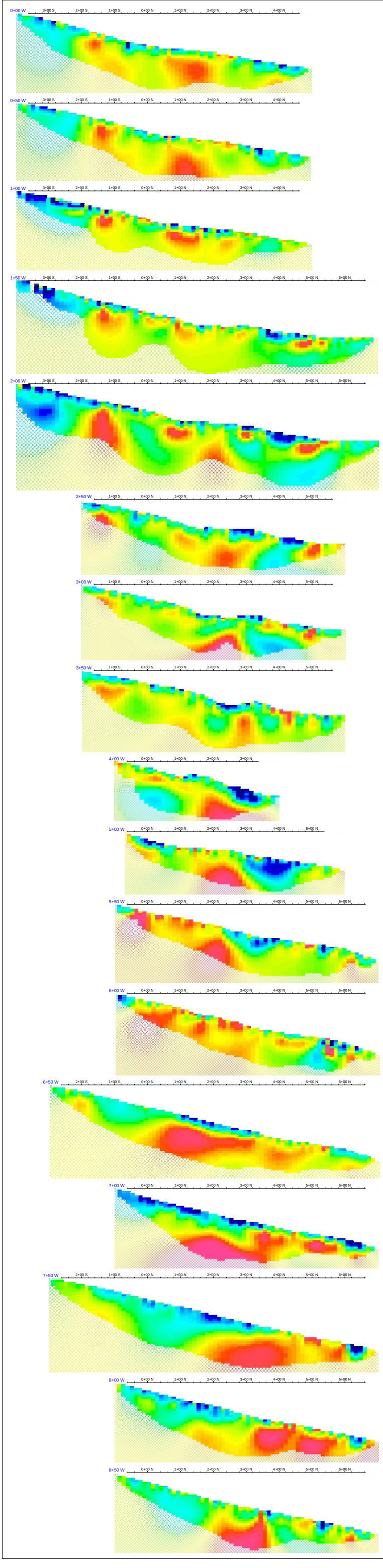


KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
APPARENT RESISTIVITY PSEUDOSECTIONS

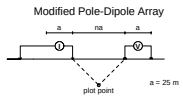
NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date: 01 Feb 07
Drawn by: H.D.S. — APPENDIX: F

AURORA GEOSCIENCES LTD.

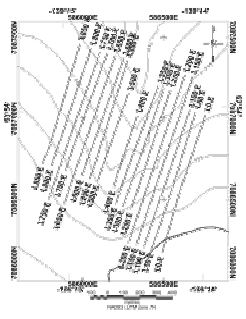


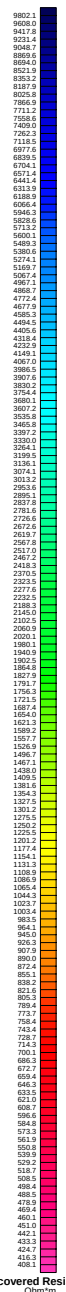
STACKED RECOVERED RESISTIVITY

Modified Pole-Dipole Array



Stationary electrode at south end of lines moving north
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Recovered Resistivity
Ohm*m

50 0 50 100 150 200 250
metres

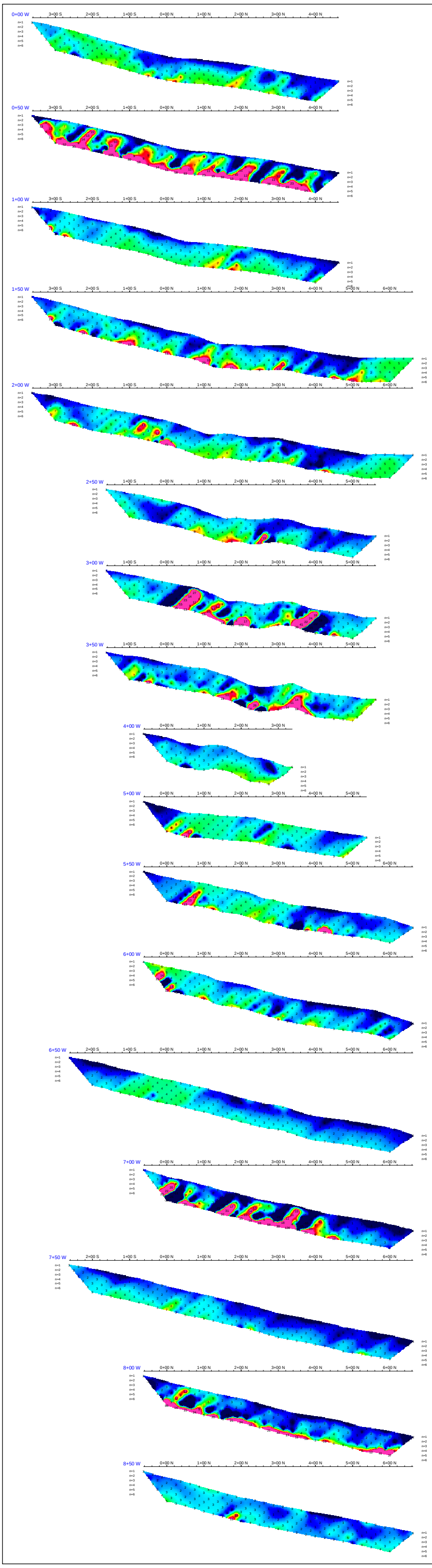
No vertical exaggeration

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
RECOVERED RESISTIVITY MODELS

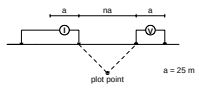
NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date: 06 Feb 07
Drawn by: H.D.S. — APPENDIX: F

AURORA GEOSCIENCES LTD.

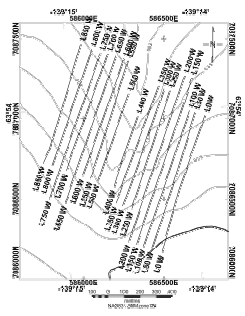


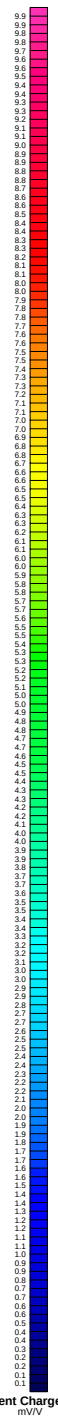
STACKED APPARENT CHARGEABILITY

Modified Pole-Dipole Array



Stationary electrode at south end of lines moving north.
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





Apparent Chargeability
mV/V

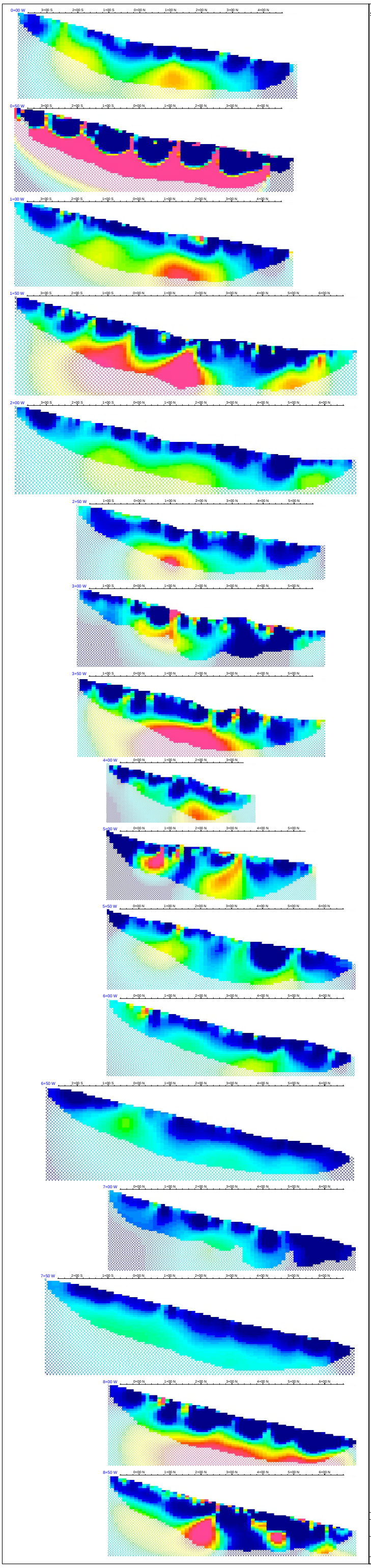
50 0 50 100 150 200 250
metres

KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
APPARENT CHARGEABILITY PSEUDOSECTIONS

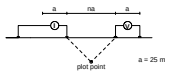
NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date: 05 Feb 07
Drawn by: H.D.S. — APPENDIX: F

AURORA GEOSCIENCES LTD.

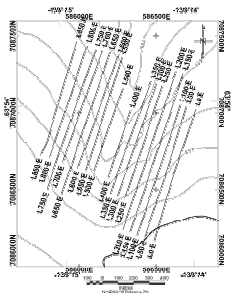


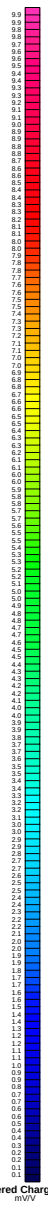
STACKED RECOVERED CHARGEABILITY

Modified Pole-Dipole Array



Stationary electrode south end of lines moving north.
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Lonestar West 2006 IP.xyz
Dates Surveyed : Aug 22 to Sept 25, 2006





50 0 50 100 150 200 250
metres

no vertical exaggeration

KLONDIKE STAR MINERAL CORP.

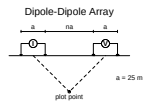
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, LONESTAR WEST GRID
RECOVERED CHARGEABILITY MODELS

NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date: 05 Feb 07
Drawn by: H.D.S. — APPENDIX: F

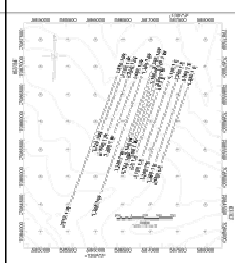
AURORA GEOSCIENCES LTD.

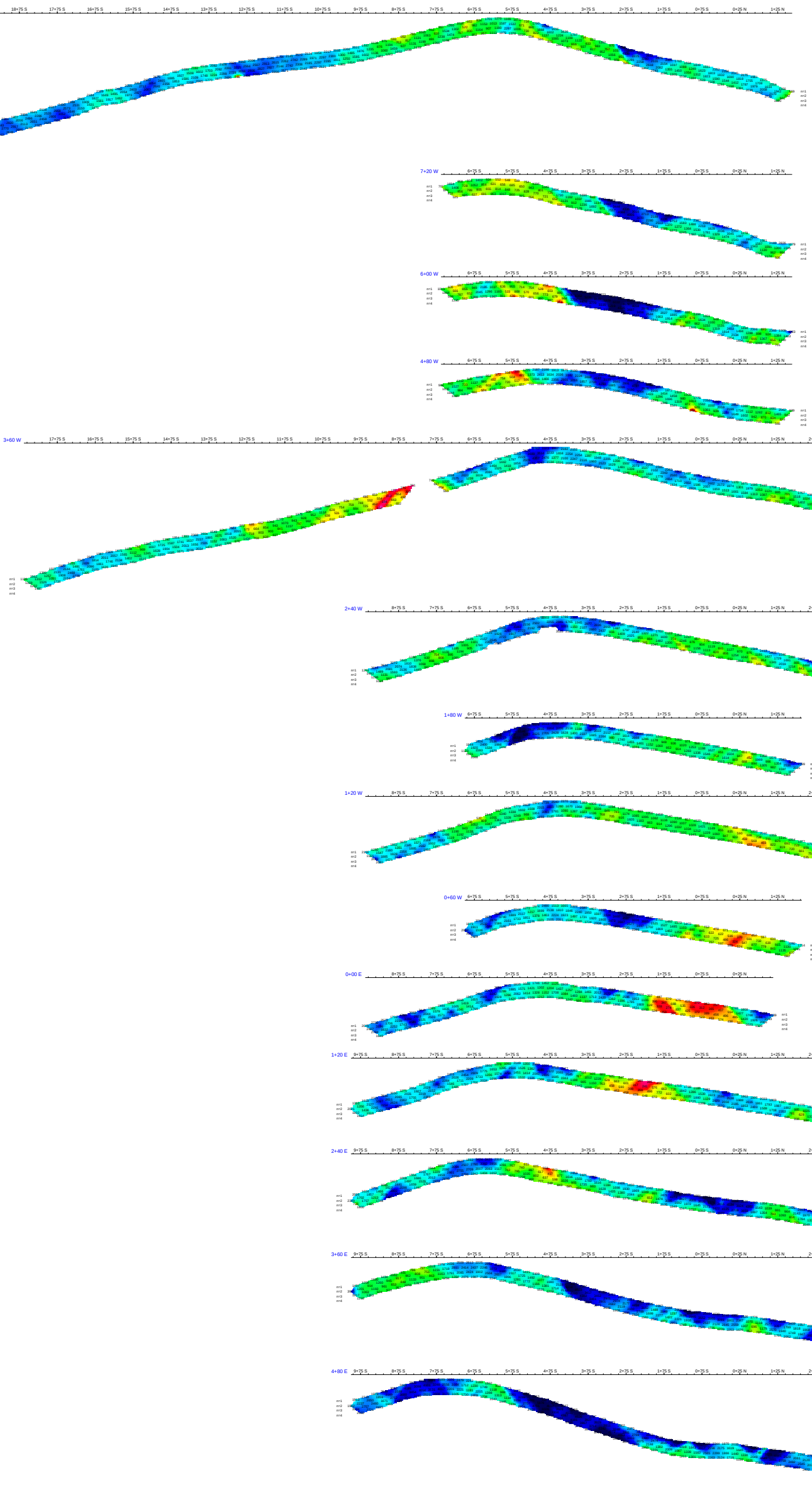
STACKED APPARENT RESISTIVITY

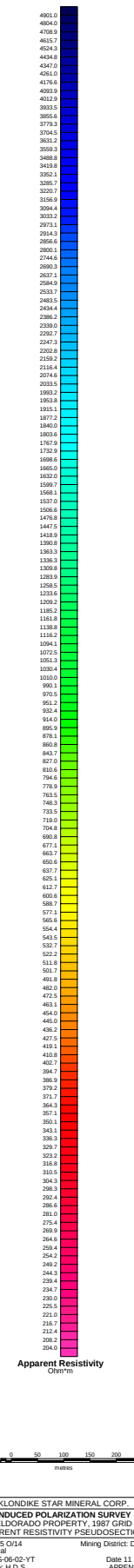
Dipole-Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW
Dates Surveyed : June 2 to December 16, 1986





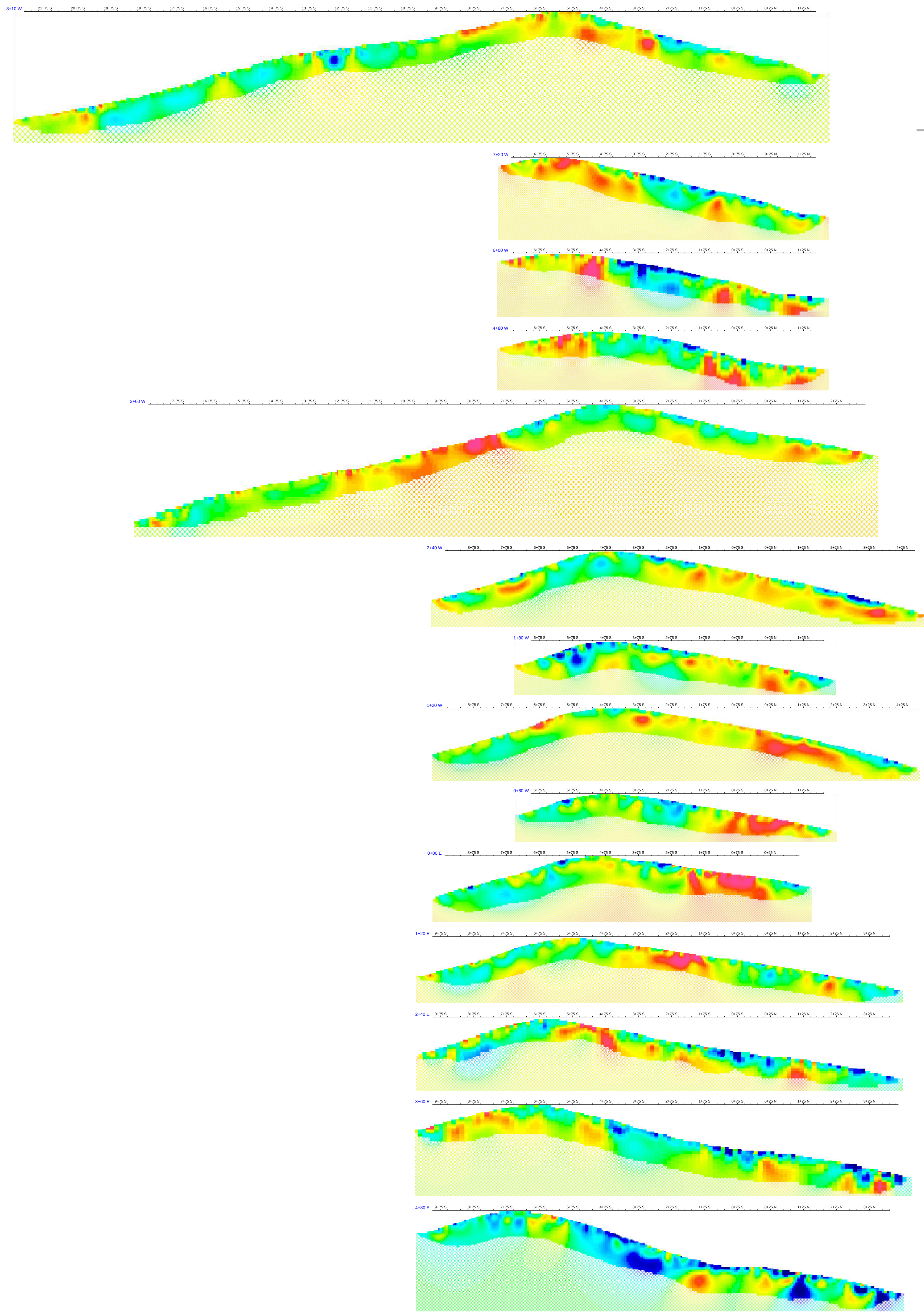


KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 GRID
APPARENT RESISTIVITY PSEUDOSECTIONS

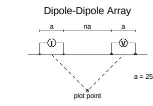
NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date 11 Feb 07
Drawn by: H.D.S. — APPENDIX: F

AURORA GEOSCIENCES LTD.

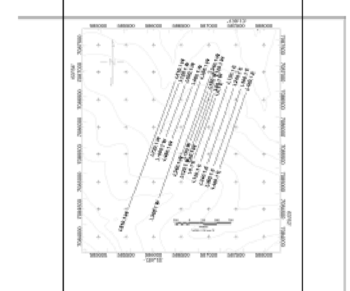


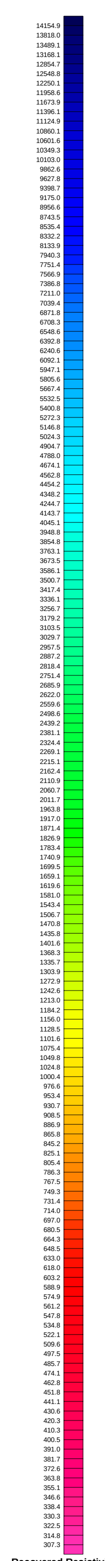
STACKED RECOVERED RESISTIVITY

Dipole-Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW
Dates Surveyed : June 2 to December 16, 1986





Recovered Resistivity
Ohm*m

50 0 50 100 150 200 250
metres

No vertical exaggeration

KLONDIKE STAR MINERAL CORP.

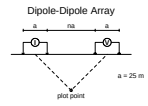
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 GRID
RECOVERED RESISTIVITY MODELS

NTS: 115 O/14 | Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT | Date 11 Feb 07
Drawn by: H.D.S. | APPENDIX: F

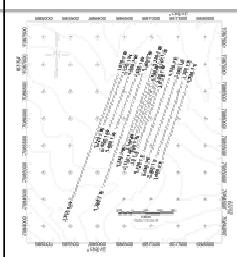
AURORA GEOSCIENCES LTD.

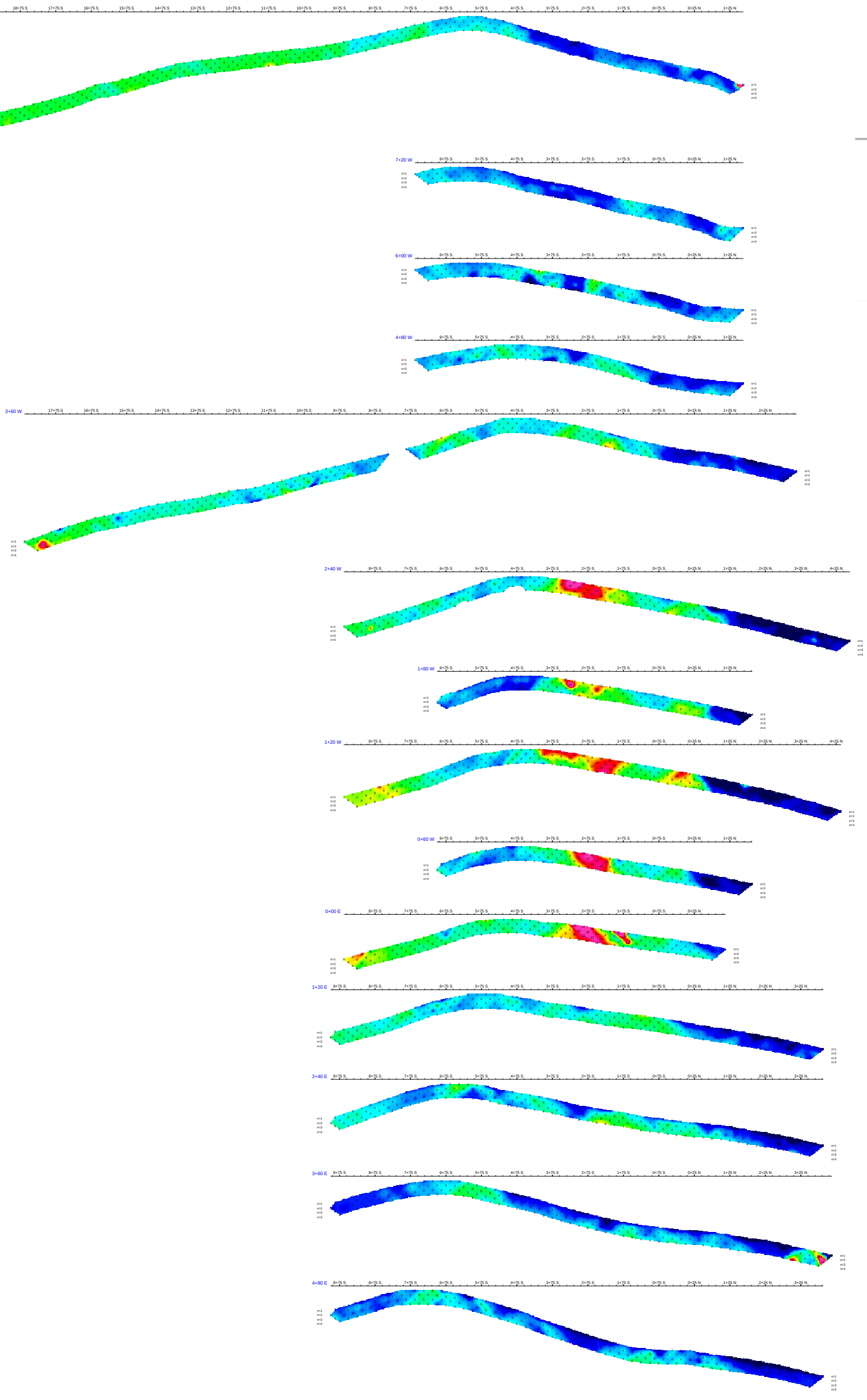
STACKED APPARENT CHARGEABILITY

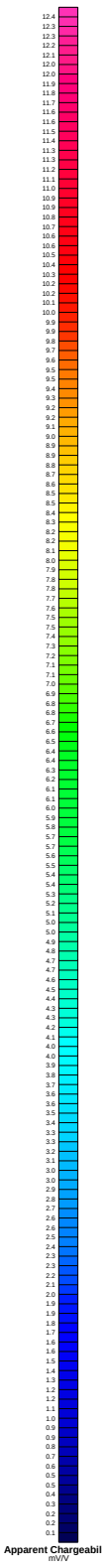
Dipole-Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW
Dates Surveyed : June 2 to December 16, 1986







50 0 50 100 150 200 250
metres

KLONDIKE STAR MINERAL CORP.

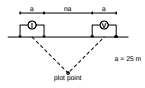
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 GRID
APPARENT CHARGEABILITY PSEUDOSECTIONS

NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date 11 Feb 07
Drawn by: H.D.S. — APPENDIX: F

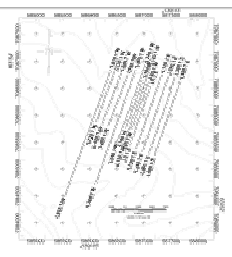
AURORA GEOSCIENCES LTD.

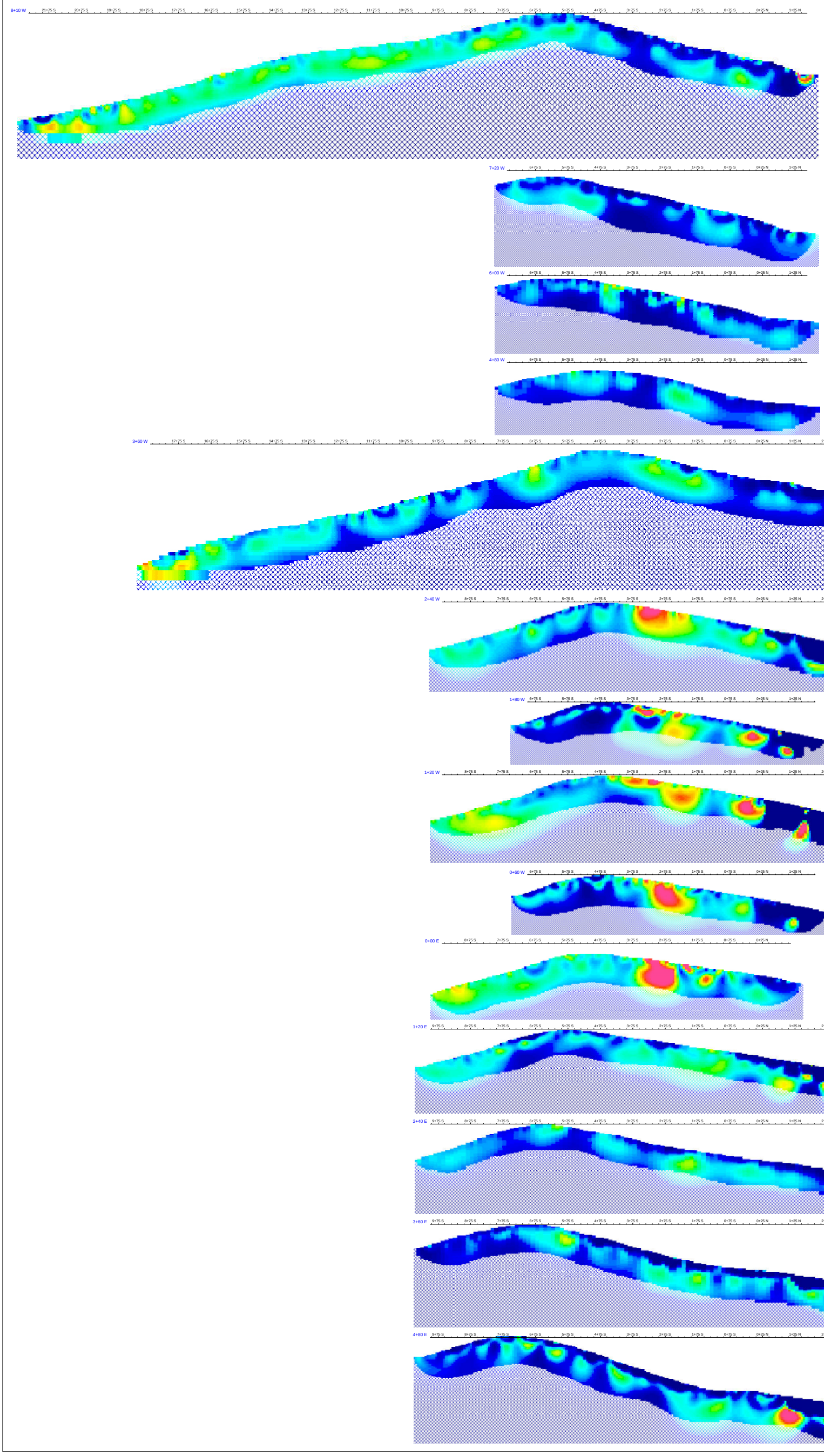
STACKED RECOVERED CHARGEABILITY

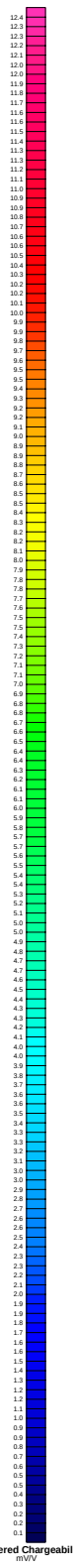
Dipole-Dipole Array



Receiver: Huntec
Transmitter: Phoenix 2.0kW
Dates Surveyed : June 2 to December 16, 1986







50 0 50 100 150 200 250
metres

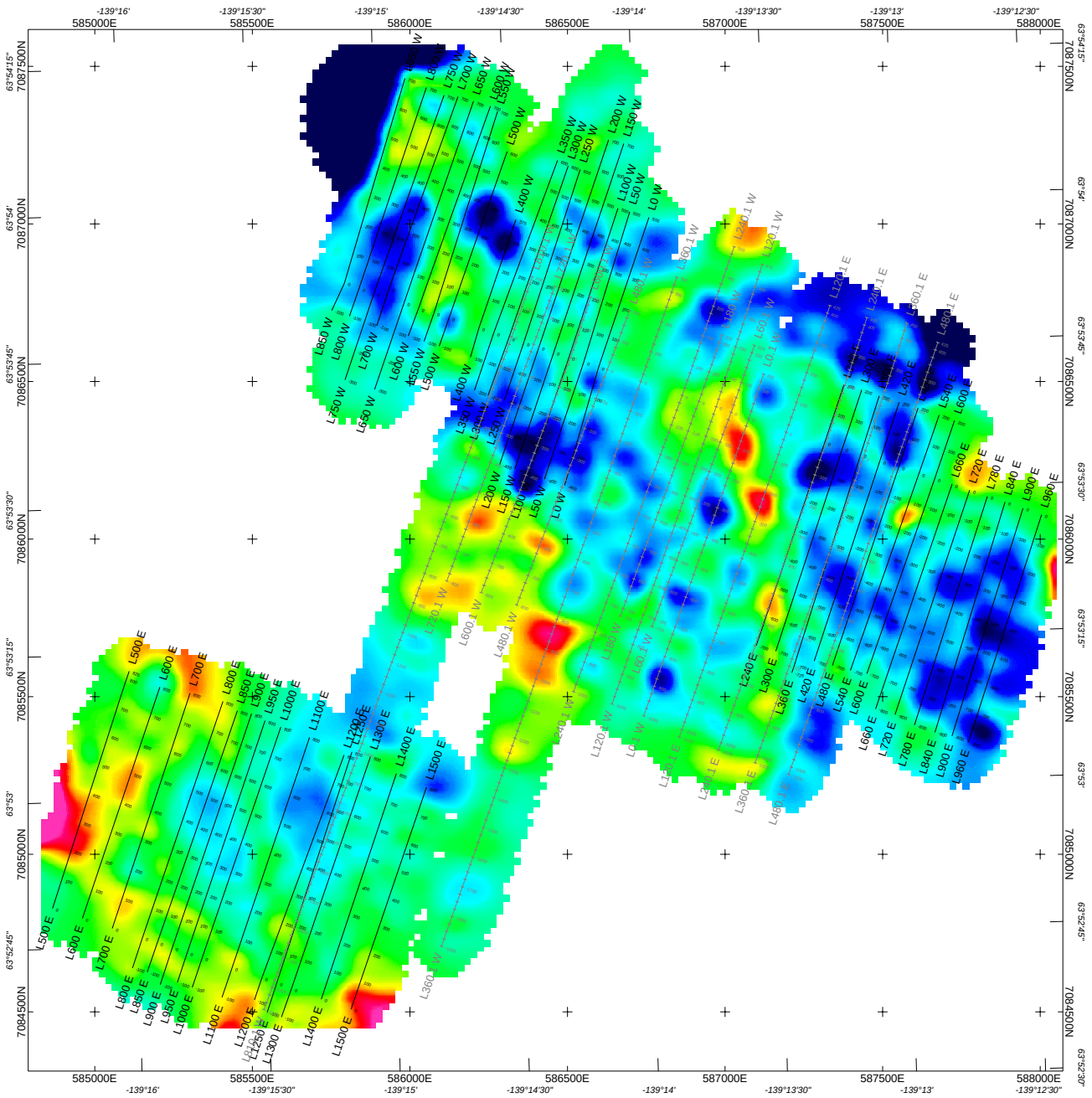
No vertical exaggeration

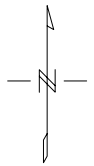
KLONDIKE STAR MINERAL CORP.

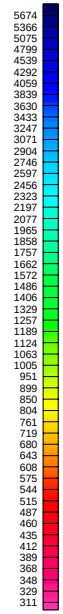
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, 1987 GRID
RECOVERED CHARGEABILITY MODELS

NTS: 115 O/14 — Mining District: Dawson
Grid: Local
Job: KDS-06-02-YT — Date 11 Feb 07
Drawn by: H.D.S. — APPENDIX: F

AURORA GEOSCIENCES LTD.

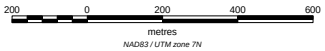






Recovered Resistivity
(Ohm-m)

Gridding Algorithm: Minimum Curvature
Filter : 3 passes Hanning
Cell size: 20



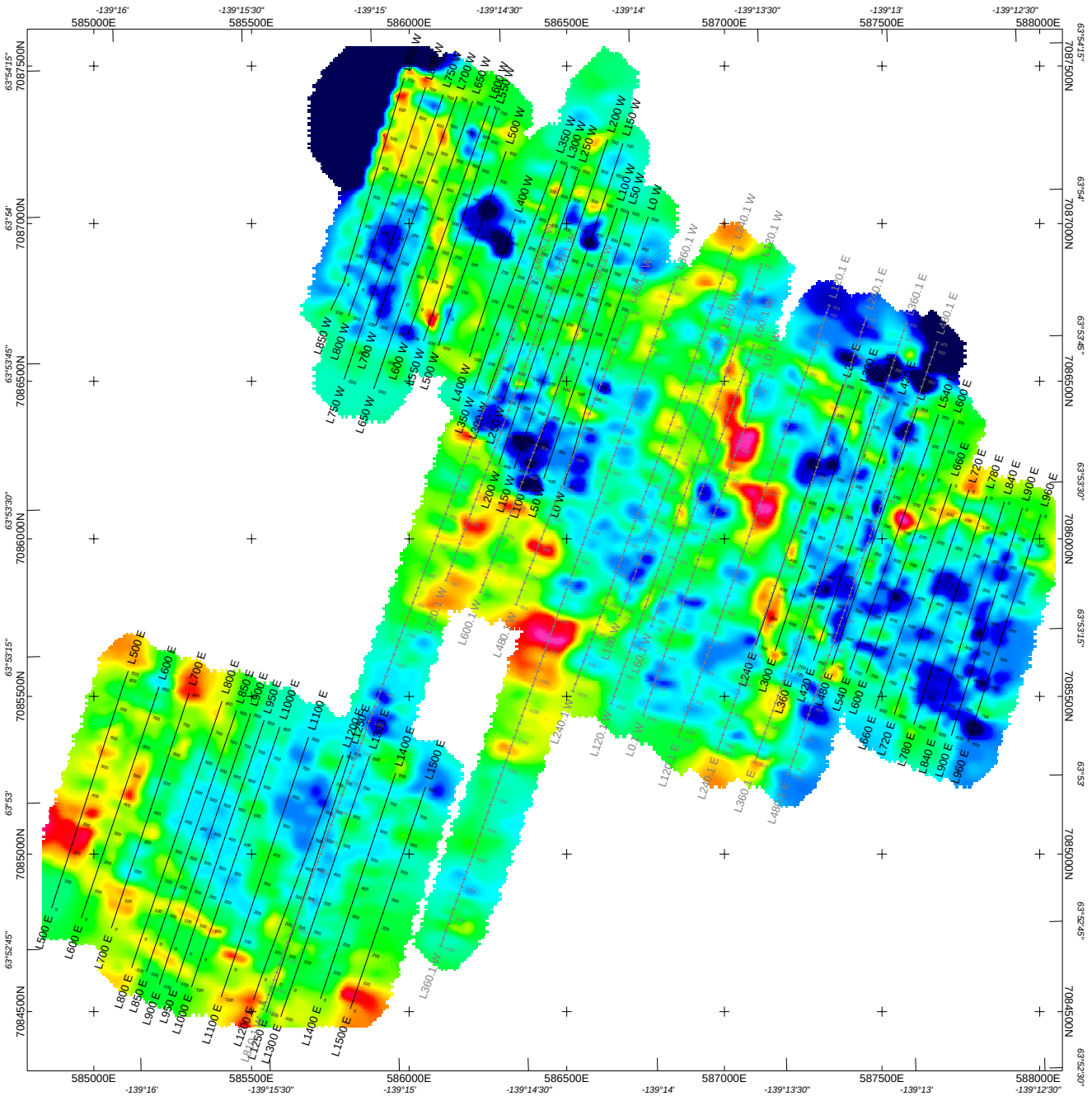
KLONDIKE STAR MINERAL CORP.

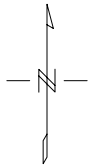
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, COMBINED 1987 & 2006 GRIDS
RECOVERED RESISTIVITY - 10 m BELOW SURFACE

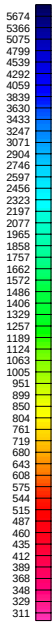
NTS: 115O/04
Datum: NAD83
Job: KDS-06-02-YT
Drawn by: DH

Mining District: Dawson
Proj: UTM Zone 7N
Date: 13 Feb 07
Appendix G

AURORA GEOSCIENCES LTD.

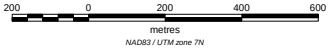






Recovered Resistivity
(Ohm-m)

Gridding Algorithm: Minimum Curvature
Filter : 3 passes Hanning
Cell size: 20



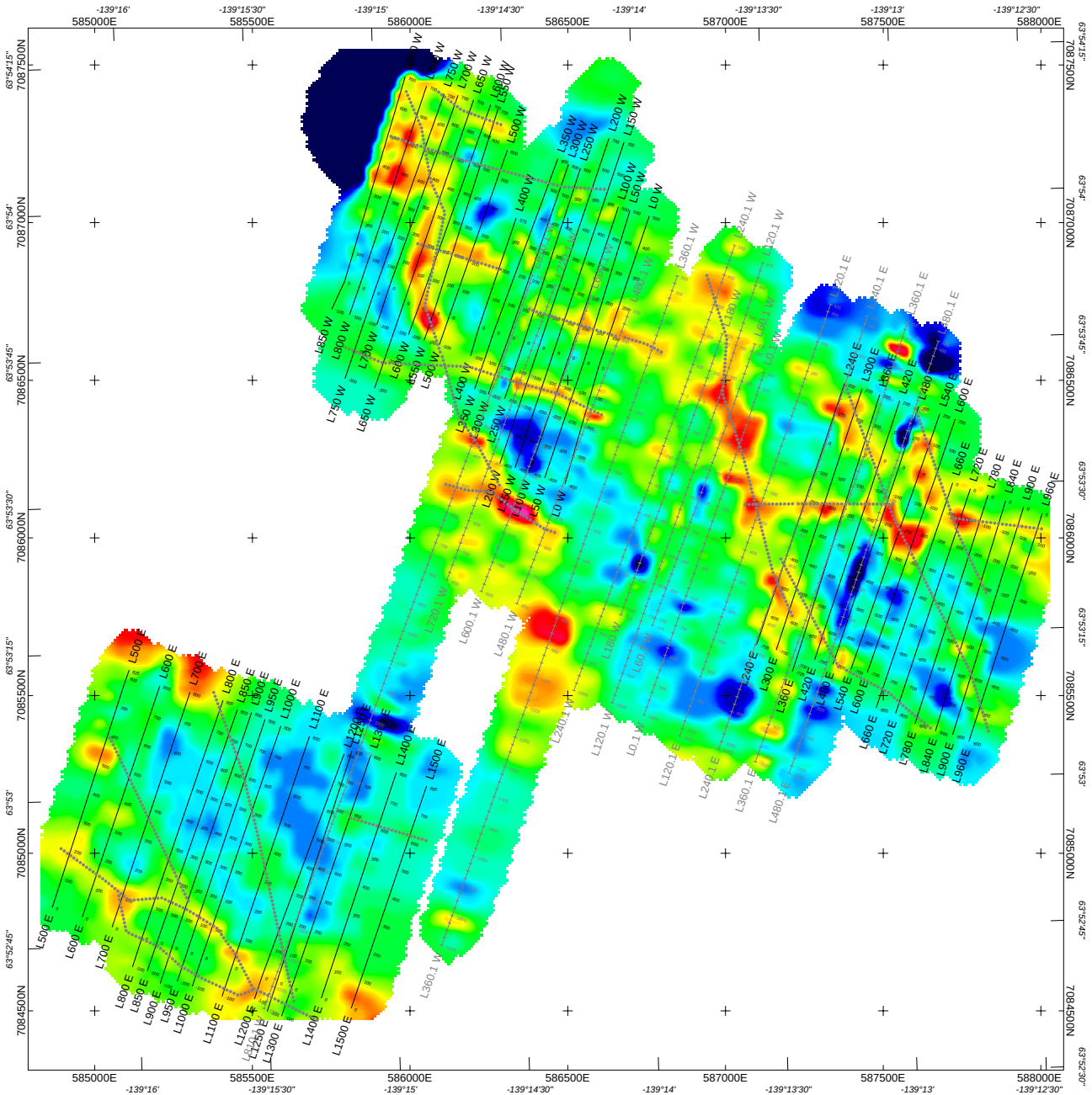
KLONDIKE STAR MINERAL CORP.

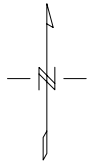
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, COMBINED 1987 & 2006 GRIDS
RECOVERED RESISTIVITY - 20 m BELOW SURFACE

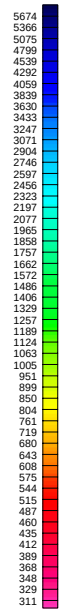
NTS: 115O/04
Datum: NAD83
Job: KDS-06-02-YT
Drawn by: DH

Mining District: Dawson
Proj: UTM Zone 7N
Date: 13 Feb 07
Appendix G

AURORA GEOSCIENCES LTD.

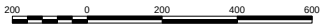






Recovered Resistivity
(Ohm-m)

Gridding Algorithm: Minimum Curvature
Filter : 3 passes Hanning
Cell size: 20



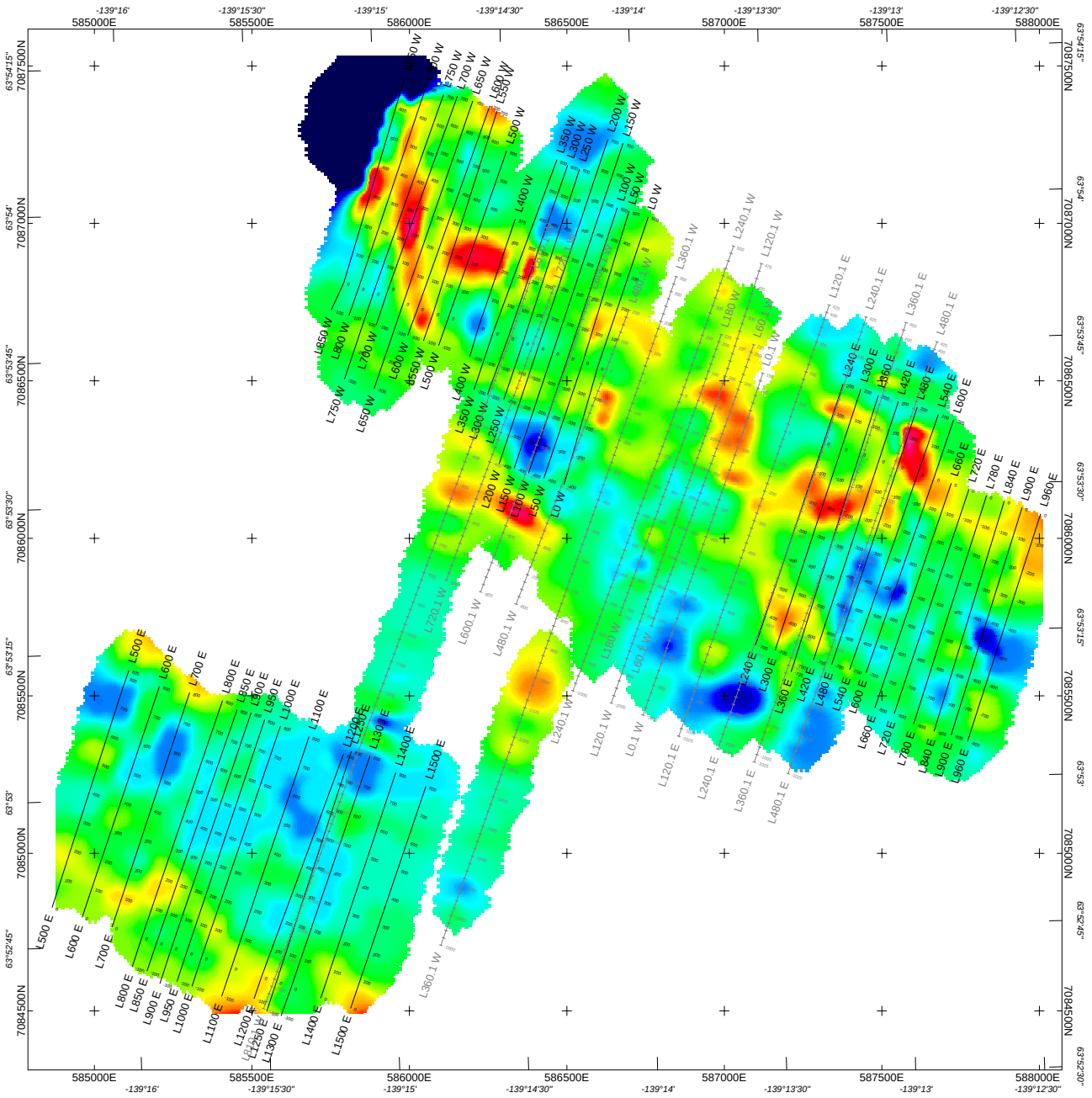
KLONDIKE STAR MINERAL CORP.

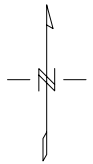
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, COMBINED 1987 & 2006 GRIDS
RECOVERED RESISTIVITY - 50 m BELOW SURFACE

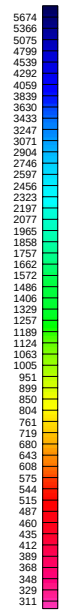
NTS: 115O/04
Datum: NAD83
Job: KDS-06-02-YT
Drawn by: DH

Mining District: Dawson
Proj: UTM Zone 7N
Date: 13 Feb 07
Appendix G

AURORA GEOSCIENCES LTD.

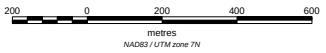






Recovered Resistivity
(Ohm-m)

Gridding Algorithm: Minimum Curvature
Filter : 3 passes Hanning
Cell size: 20



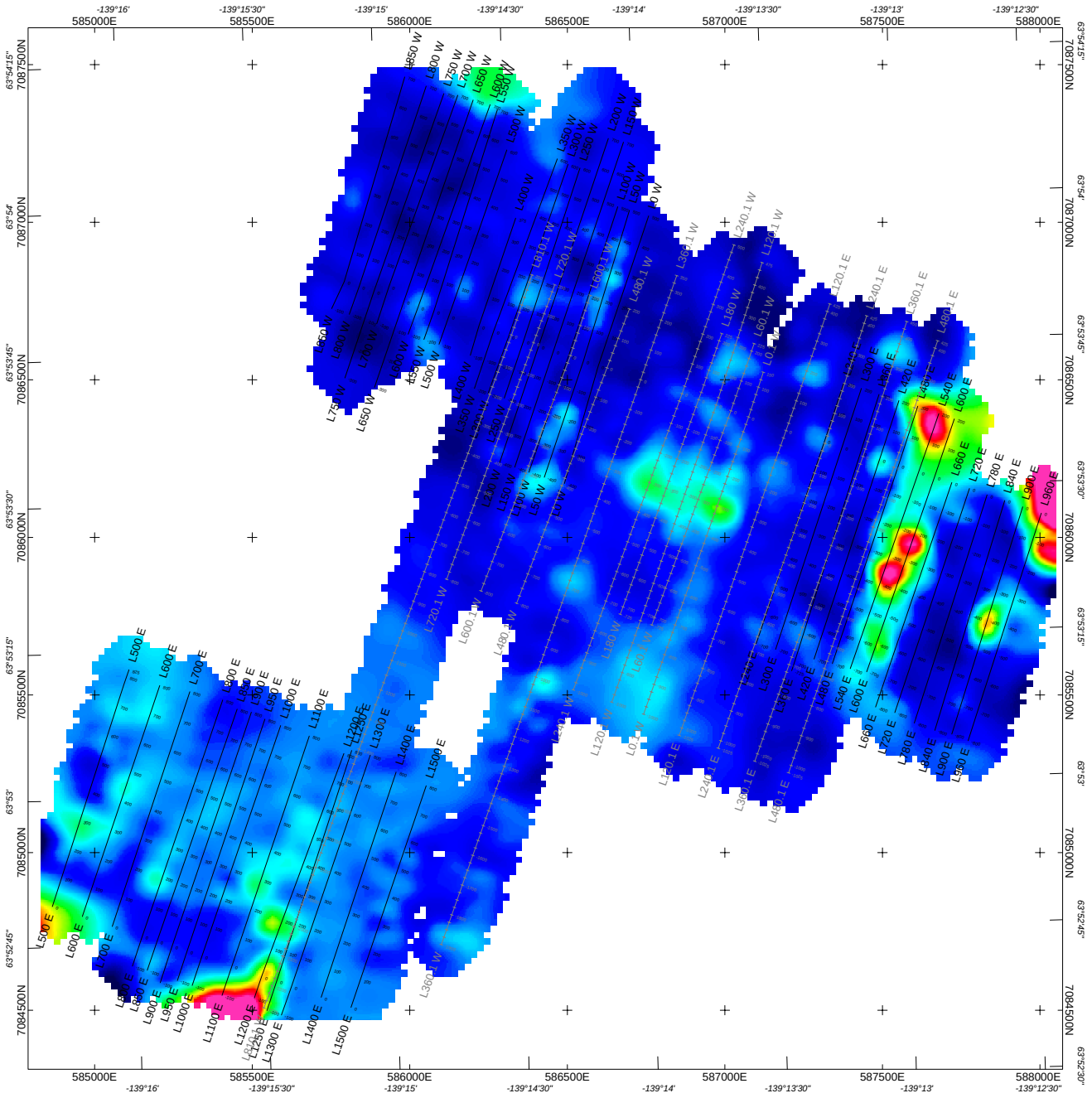
KLONDIKE STAR MINERAL CORP.

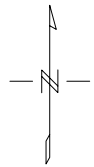
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, COMBINED 1987 & 2006 GRIDS
RECOVERED RESISTIVITY - 100 m BELOW SURFACE

NTS: 115O/04
Datum: NAD83
Job: KDS-06-02-YT
Drawn by: DH

Mining District: Dawson
Proj: UTM Zone 7N
Date: 13 Feb 07
Appendix G

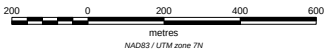
AURORA GEOSCIENCES LTD.





Recovered Chargeability
(mV/V)

Gridding Algorithm: Minimum Curvature
Filter : 3 passes Hanning
Cell size: 20



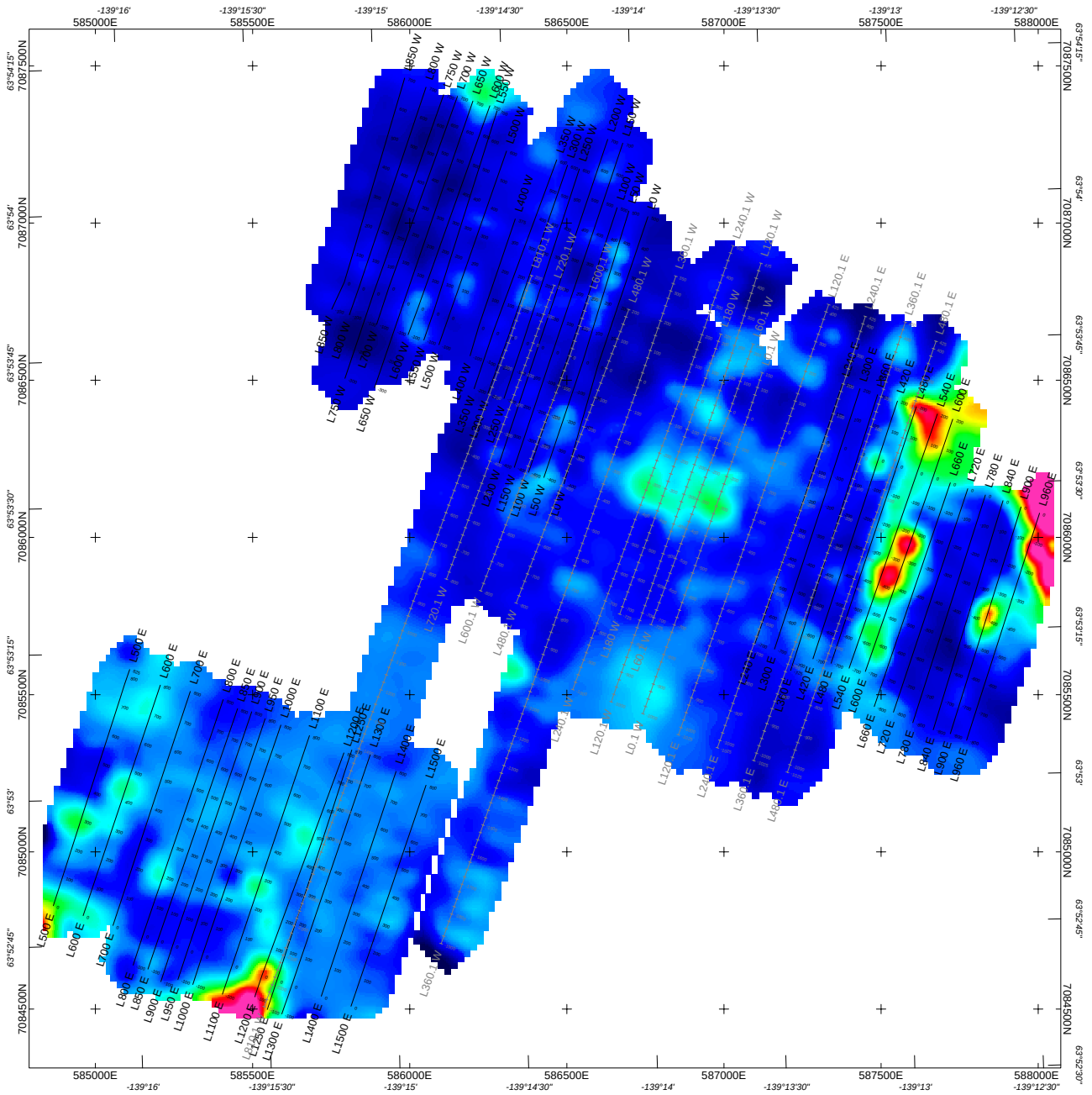
KLONDIKE STAR MINERAL CORP.

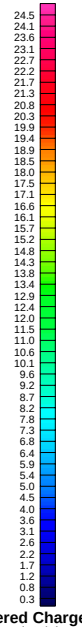
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, COMBINED 1987 & 2006 GRIDS
RECOVERED CHARGEABILITY - 10 m BELOW SURFACE

NTS: 115O/04
Datum: NAD83
Job: KDS-06-02-YT
Drawn by: DH

Mining District: Dawson
Proj: UTM Zone 7N
Date: 13 Feb 07
Appendix G

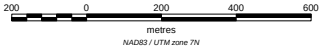
AURORA GEOSCIENCES LTD.





Recovered Chargeability
(mV/V)

Gridding Algorithm: Minimum Curvature
Filter : 3 passes Hanning
Cell size: 20



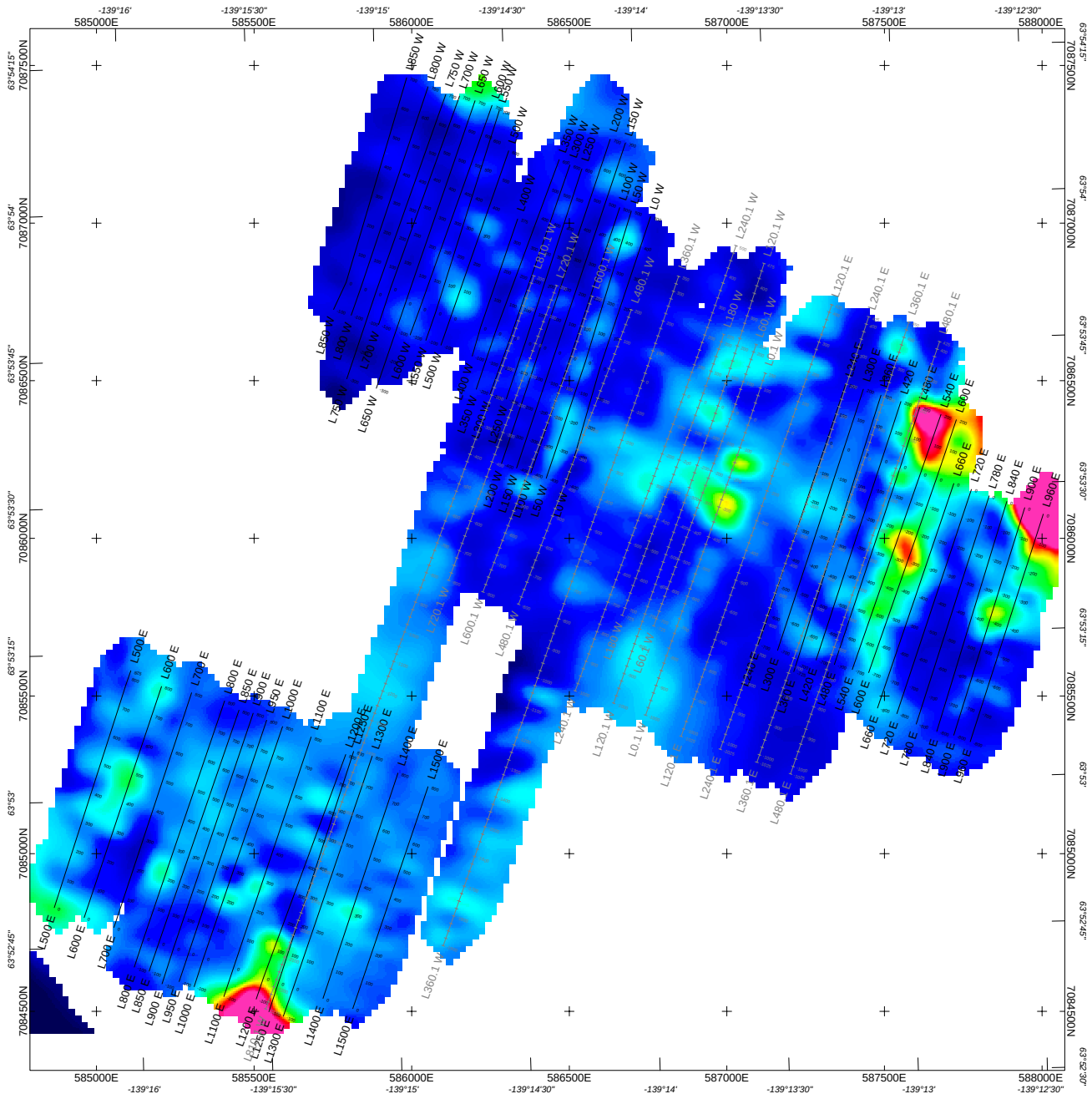
KLONDIKE STAR MINERAL CORP.

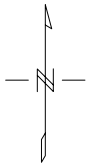
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, COMBINED 1987 & 2006 GRIDS
RECOVERED CHARGEABILITY - 20 m BELOW SURFACE

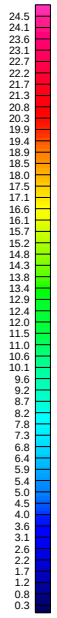
NTS: 115O/04
Datum: NAD83
Job: KDS-06-02-YT
Drawn by: DH

Mining District: Dawson
Proj: UTM Zone 7N
Date: 13 Feb 07
Appendix G

AURORA GEOSCIENCES LTD.

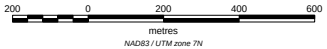






Recovered Chargeability
(mV/V)

Gridding Algorithm: Minimum Curvature
Filter : 3 passes Hanning
Cell size: 20



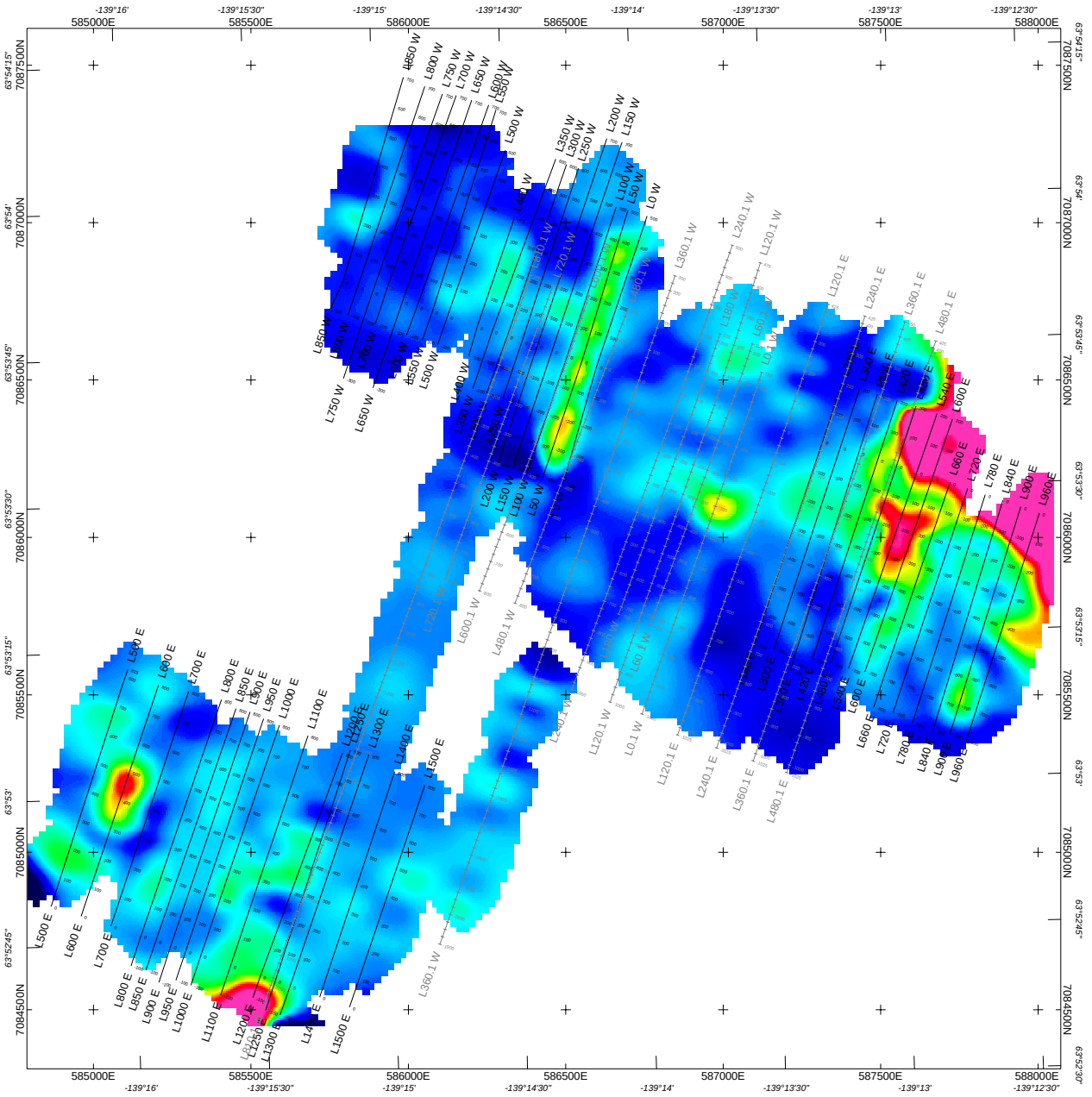
KLONDIKE STAR MINERAL CORP.

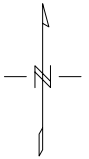
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, COMBINED 1987 & 2006 GRIDS
RECOVERED CHARGEABILITY - 50 m BELOW SURFACE

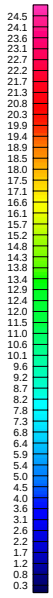
NTS: 115O/04
Datum: NAD83
Job: KDS-06-02-YT
Drawn by: DH

Mining District: Dawson
Proj: UTM Zone 7N
Date: 13 Feb 07
Appendix G

AURORA GEOSCIENCES LTD.

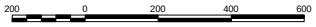






Recovered Chargeability
(mV/V)

Gridding Algorithm: Minimum Curvature
Filter : 3 passes Hanning
Cell size: 20



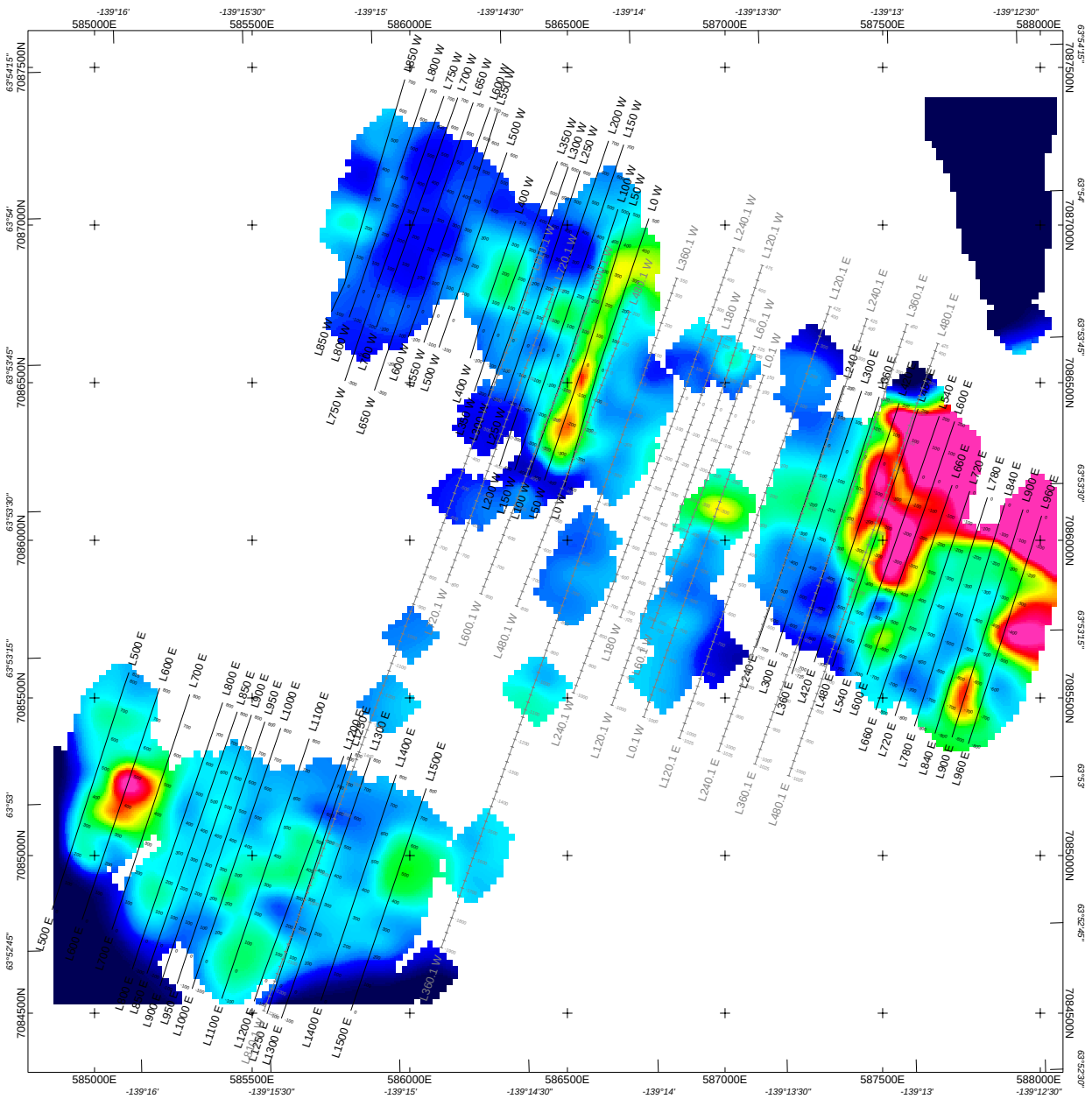
KLONDIKE STAR MINERAL CORP.

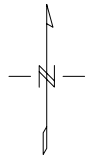
INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, COMBINED 1987 & 2006 GRIDS
RECOVERED CHARGEABILITY - 100 m BELOW SURFACE

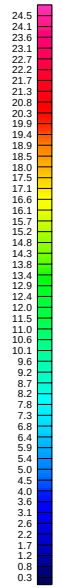
NTS: 115O/04
Datum: NAD83
Job: KDS-06-02-YT
Drawn by: DH

Mining District: Dawson
Proj: UTM Zone 7N
Date: 13 Feb 07
Appendix G

AURORA GEOSCIENCES LTD.

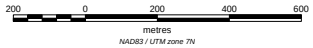






Recovered Chargeability
(mV/V)

Gridding Algorithm: Minimum Curvature
Filter : 3 passes Hanning
Cell size: 20



KLONDIKE STAR MINERAL CORP.

INDUCED POLARIZATION SURVEY
ELDORADO PROPERTY, COMBINED 1987 & 2006 GRIDS
RECOVERED CHARGEABILITY - 125 m BELOW SURFACE

NTS: 115O/04
Datum: NAD83
Job: KDS-06-02-YT
Drawn by: DH

Mining District: Dawson
Proj: UTM Zone 7N
Date: 13 Feb 07
Appendix G

AURORA GEOSCIENCES LTD.