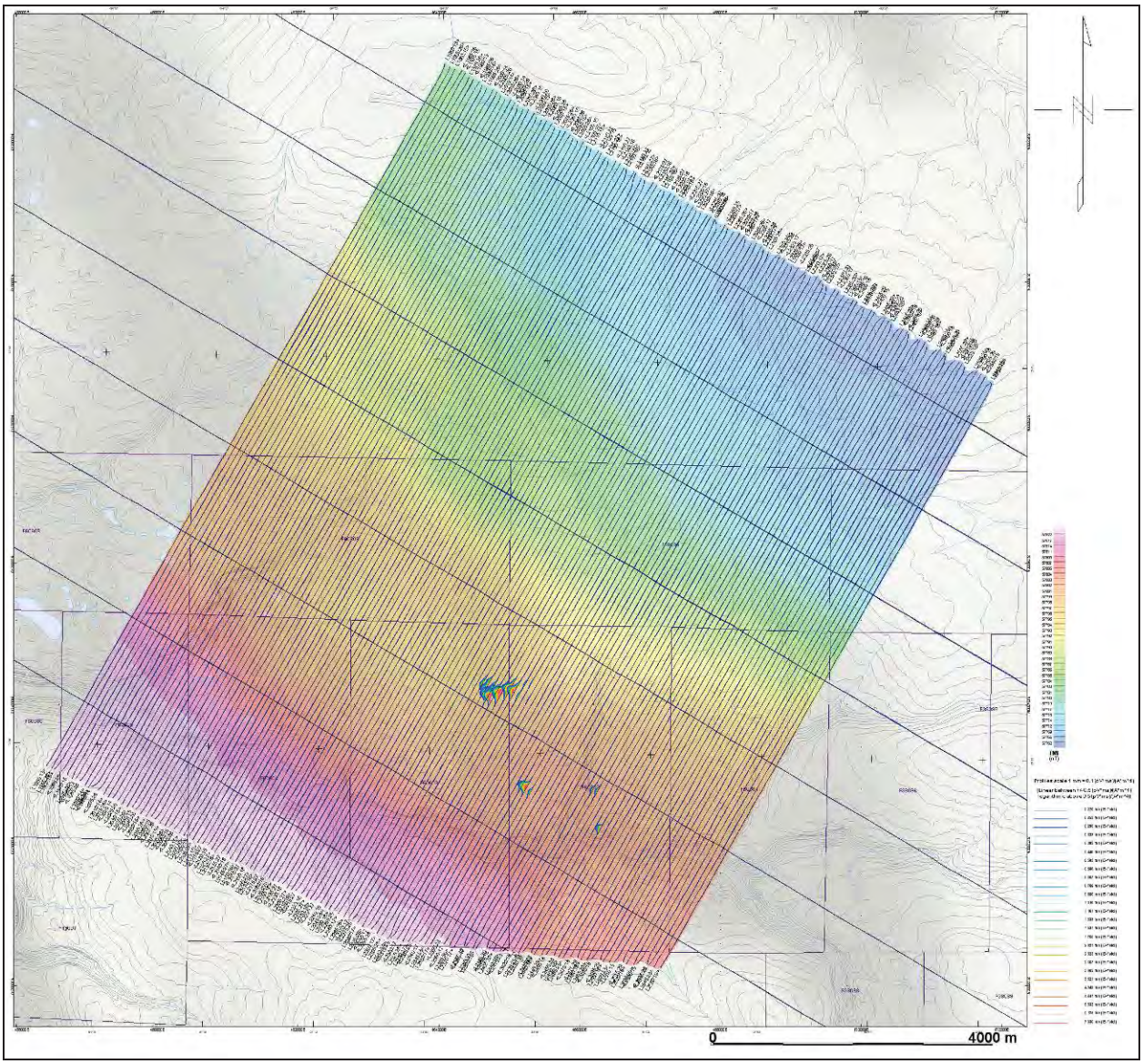
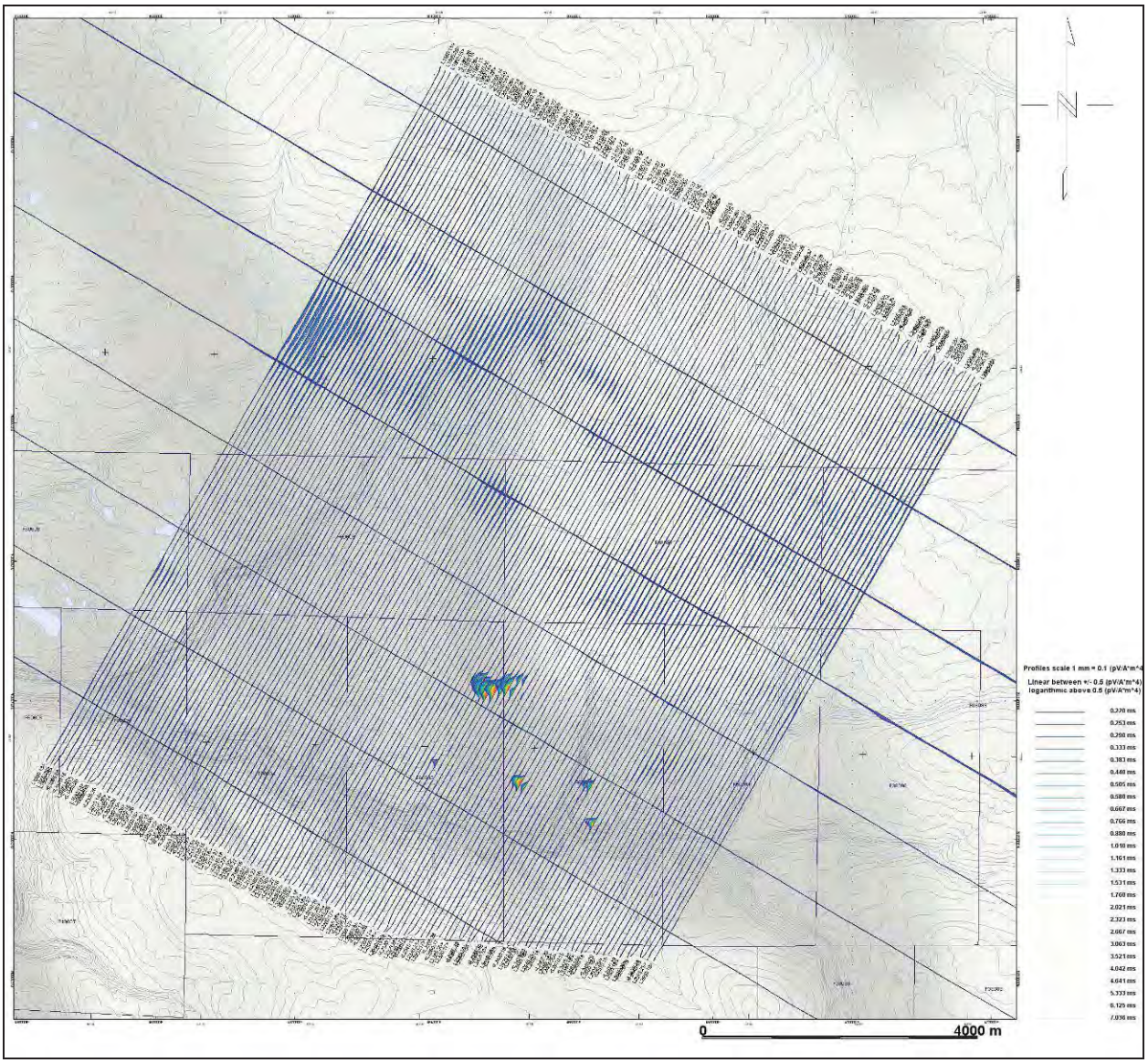
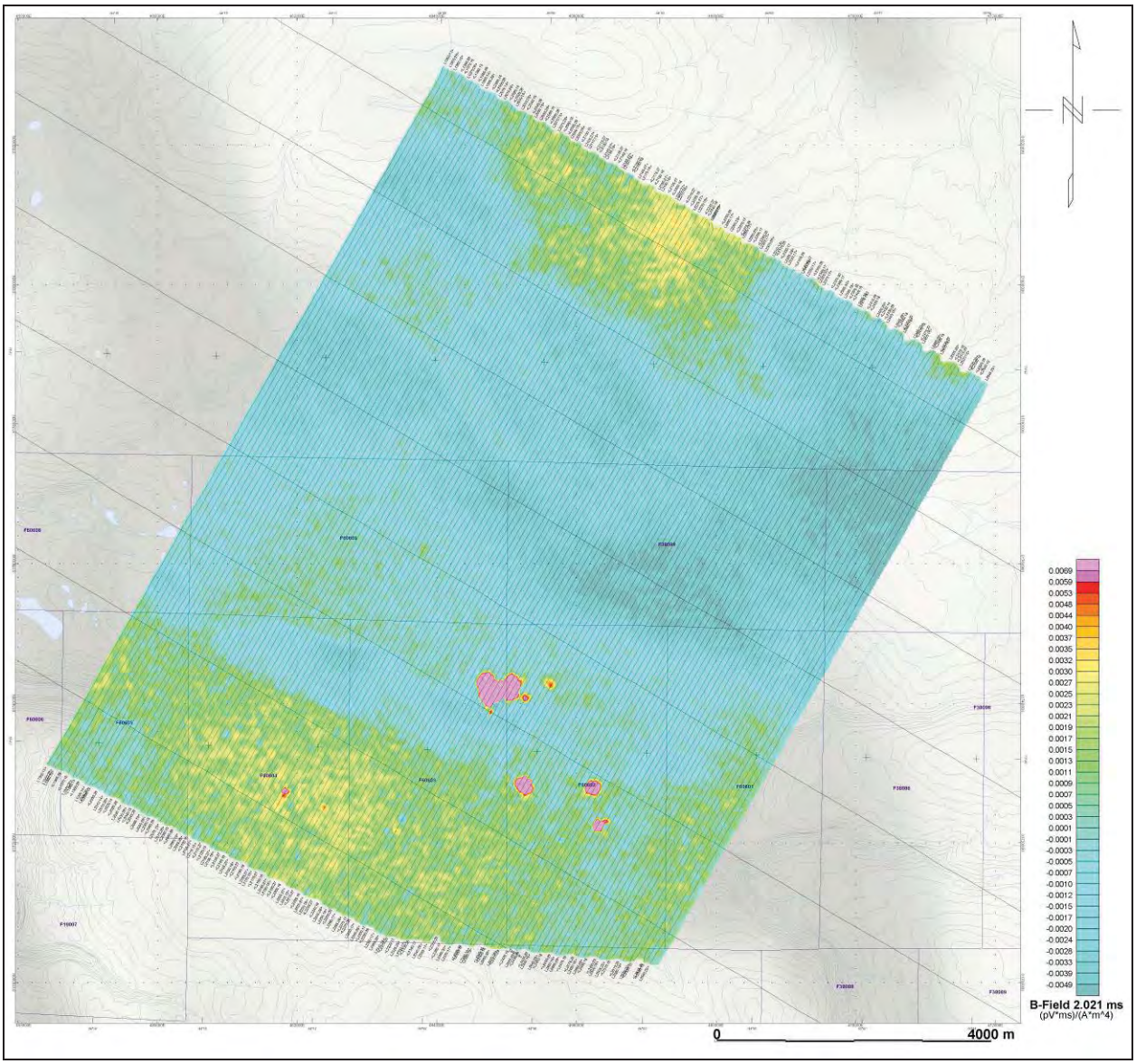


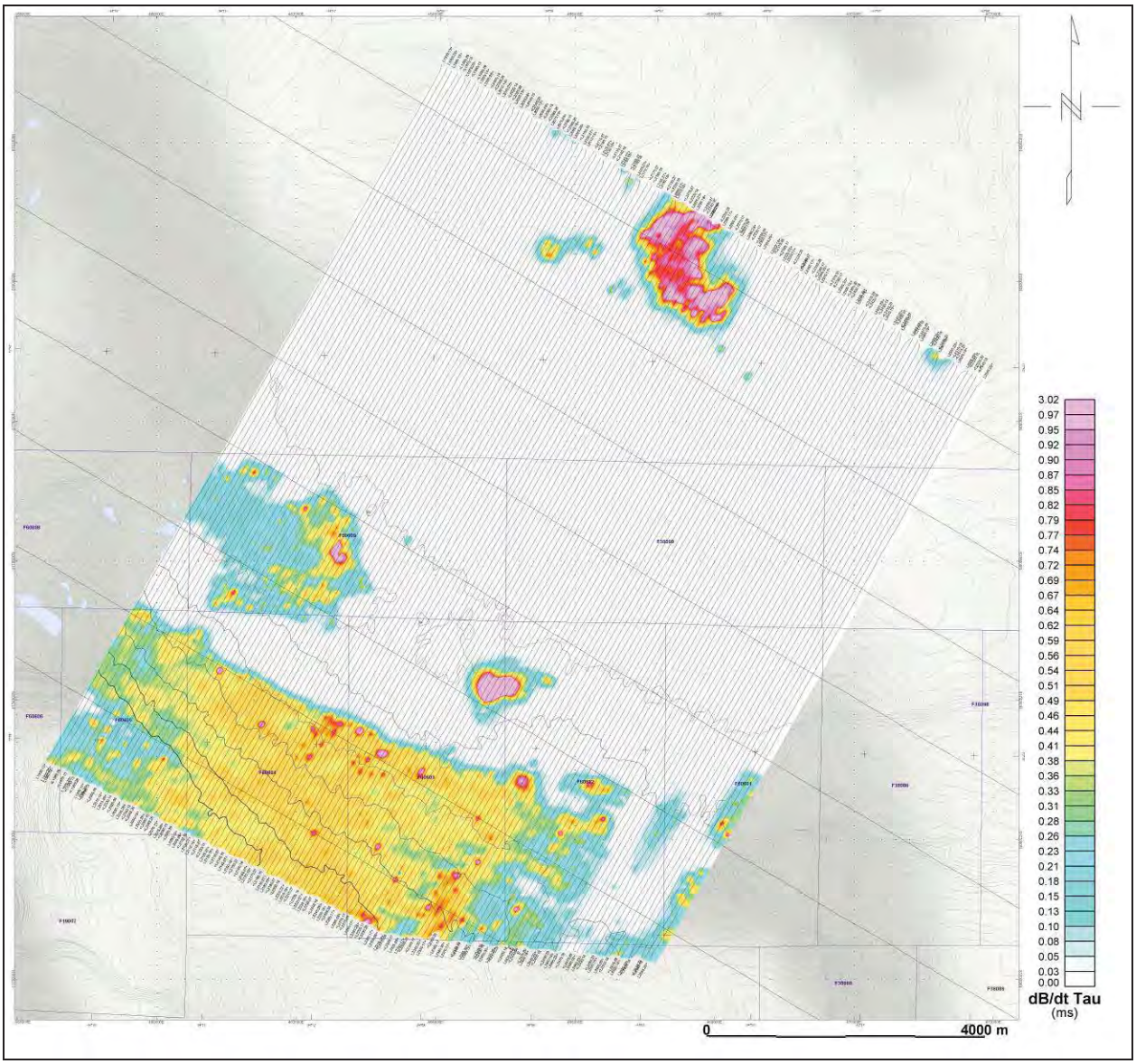
Storm Property (Infills) - VTEM B-Field Z Component Profiles, Time Gates 0.220 to 7.036 ms



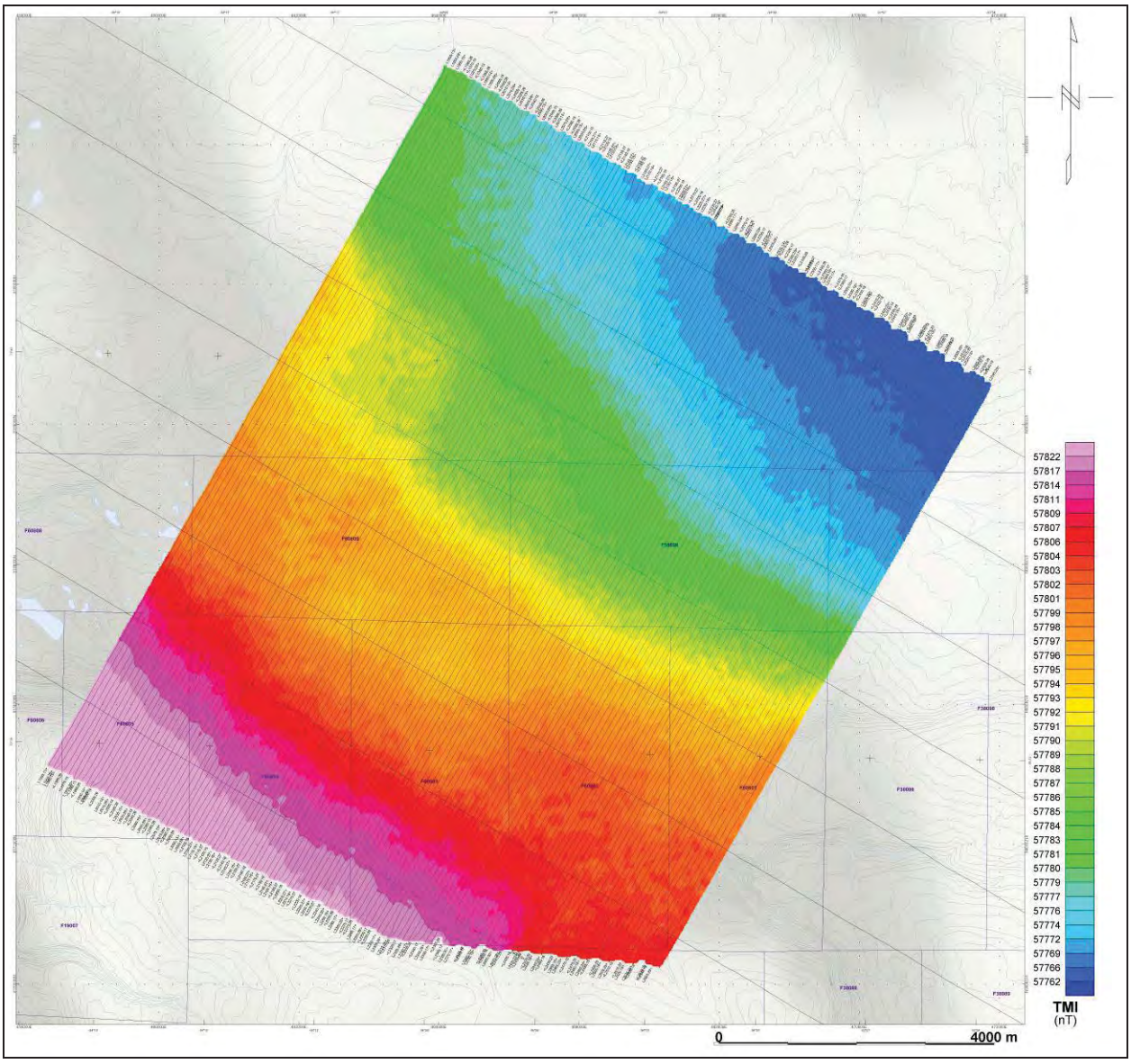
Storm Property (Infills) - VTEM dB/dt Z Component Profiles, Time Gates 0.220 to 7.036 ms



Storm Property (Infills) - VTEM B-Field Z Component Channel 36, Time Gate 2.021 ms



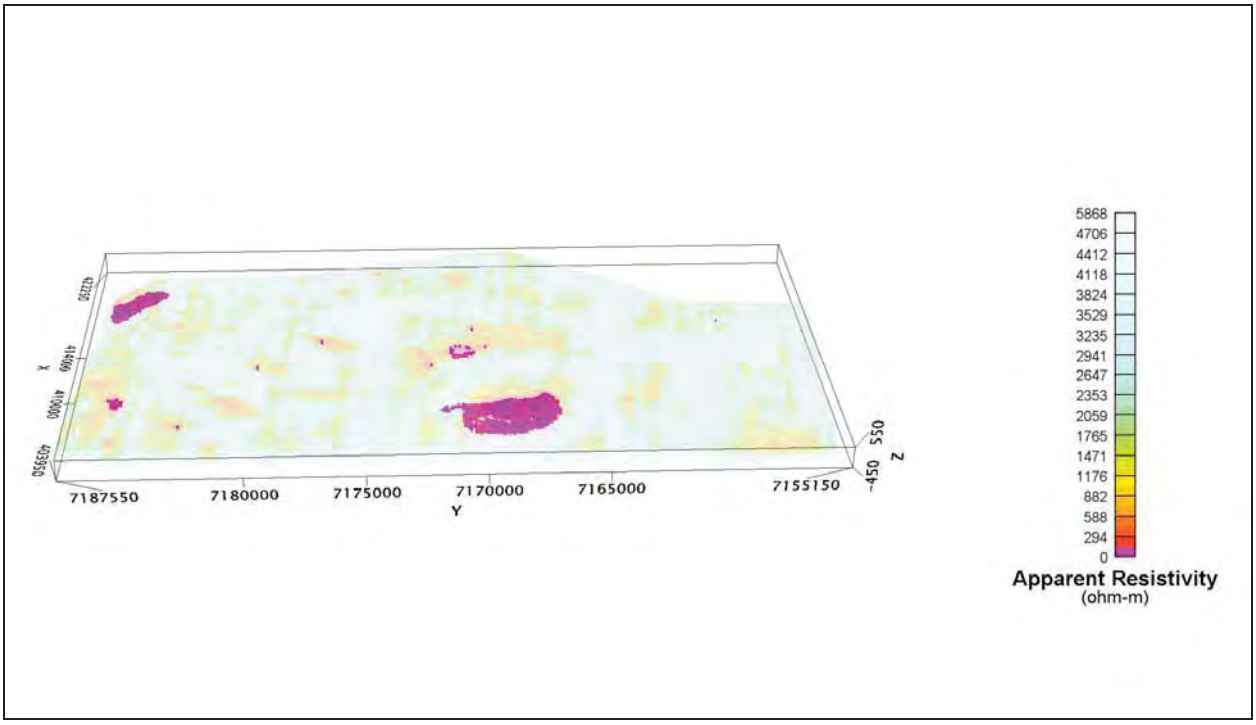
Storm Property (Infills) – dB/dt Calculated Time Constant (Tau) with contours of anomaly areas of the Calculated Vertical Derivative of TMI



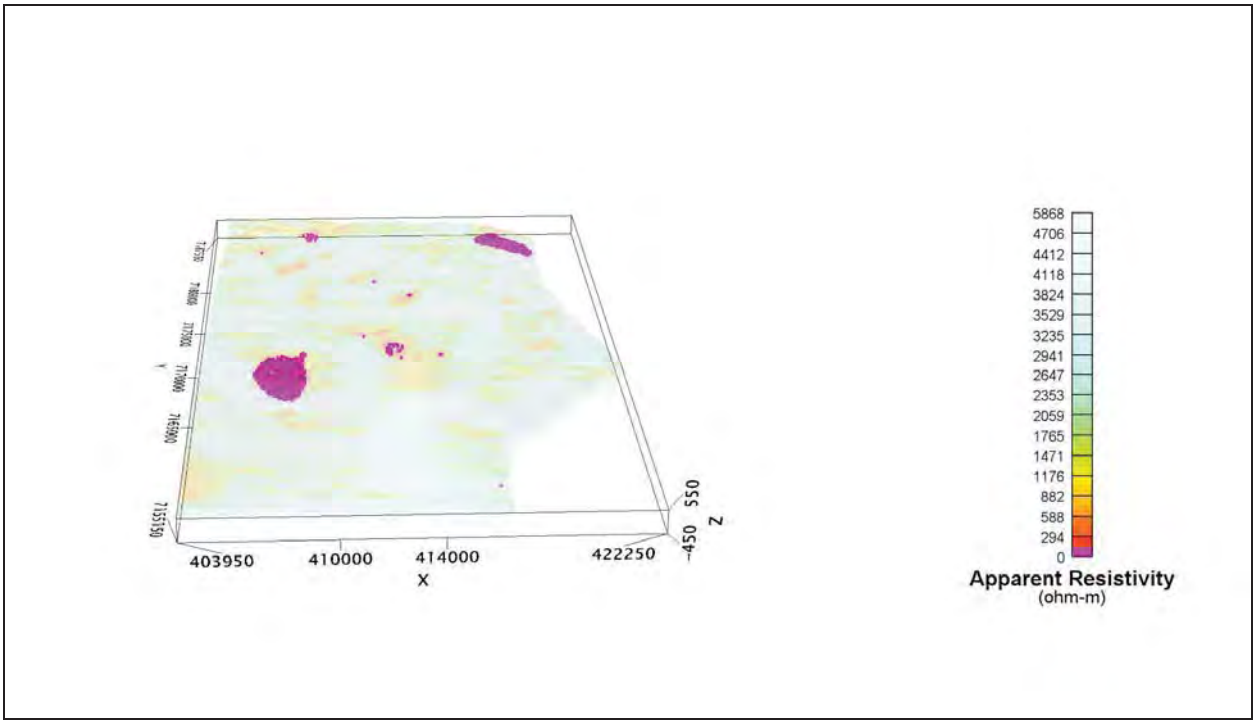
Storm Property (Infills) - Total Magnetic Intensity (TMI)

Resistivity Depth Image (RDI) MAPS

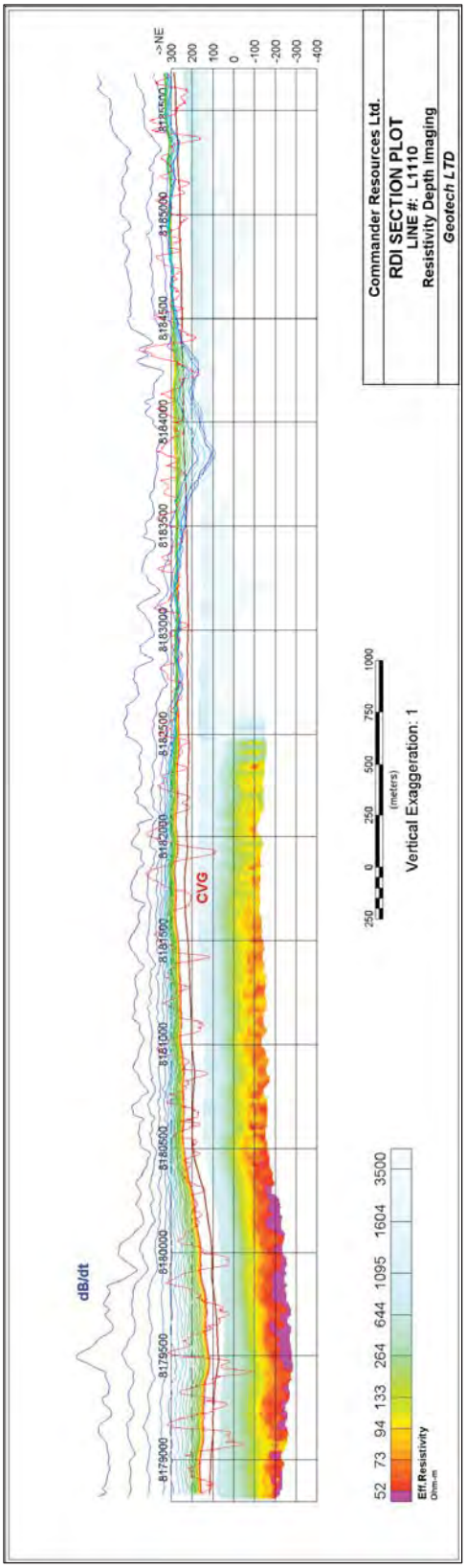
3D Resistivity Depth Images (RDI)



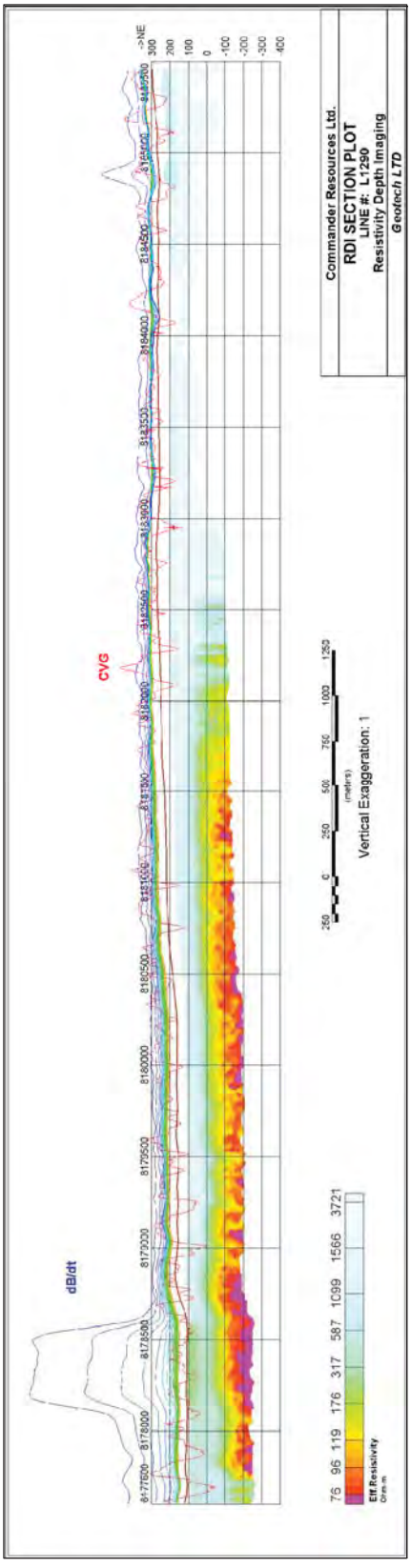
Storm Property (looking East)



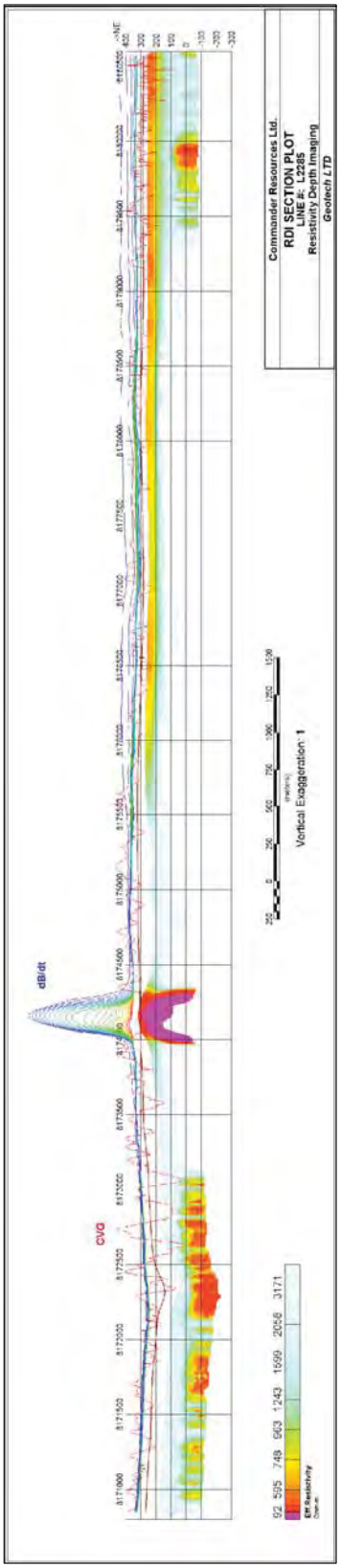
Storm Property (looking North)



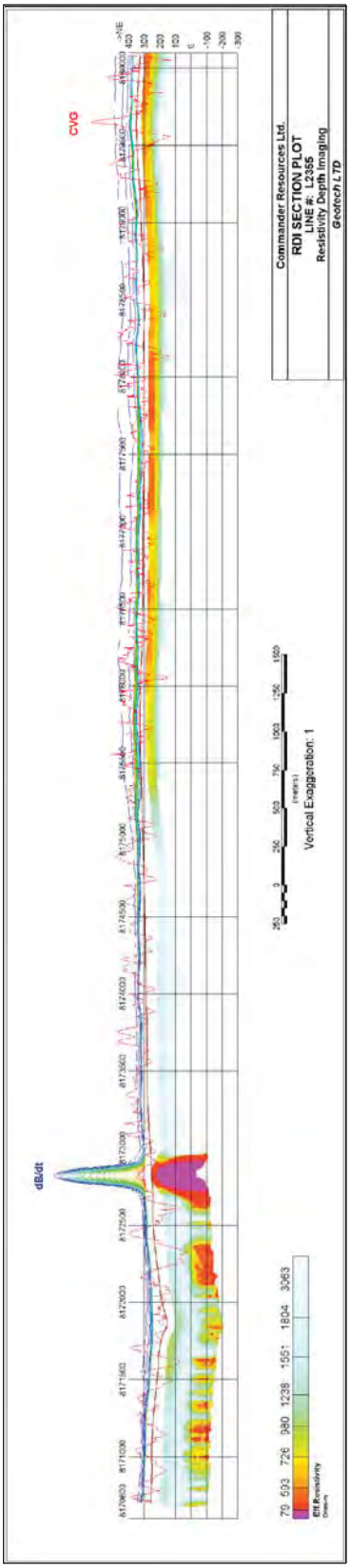
RDI Sections - Line 1110



RDI Sections - Line 1290



RDI Sections - Line 2285



RDI Sections - Line 2355

APPENDIX E

GENERALIZED MODELING RESULTS OF THE VTEM SYSTEM

Introduction

The VTEM system is based on a concentric or central loop design, whereby, the receiver is positioned at the centre of a transmitter loop that produces a primary field. The wave form is a bi-polar, modified square wave with a turn-on and turn-off at each end.

During turn-on and turn-off, a time varying field is produced (dB/dt) and an electro-motive force (emf) is created as a finite impulse response. A current ring around the transmitter loop moves outward and downward as time progresses. When conductive rocks and mineralization are encountered, a secondary field is created by mutual induction and measured by the receiver at the centre of the transmitter loop.

Efficient modeling of the results can be carried out on regularly shaped geometries, thus yielding close approximations to the parameters of the measured targets. The following is a description of a series of common models made for the purpose of promoting a general understanding of the measured results.

A set of models has been produced for the Geotech VTEM® system dB/dT Z and X components (see models E1 to E15). The Maxwell ™ modeling program (EMIT Technology Pty. Ltd. Midland, WA, AU) used to generate the following responses assumes a resistive half-space. The reader is encouraged to review these models, so as to get a general understanding of the responses as they apply to survey results. While these models do not begin to cover all possibilities, they give a general perspective on the simple and most commonly encountered anomalies.

As the plate dips and departs from the vertical position, the peaks become asymmetrical.

As the dip increases, the aspect ratio (Min/Max) decreases and this aspect ratio can be used as an empirical guide to dip angles from near 90º to about 30º. The method is not sensitive enough where dips are less than about 30º.

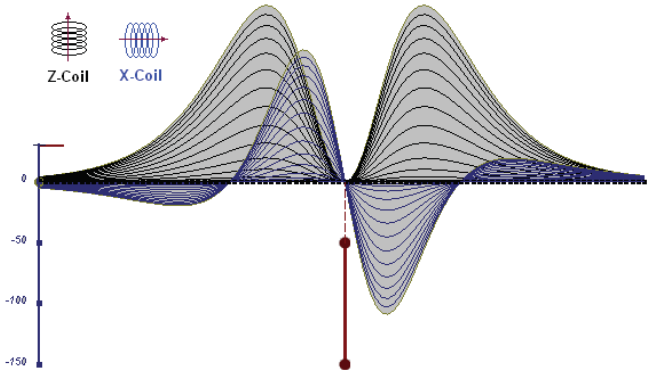


Fig E-1: vertical thin plate

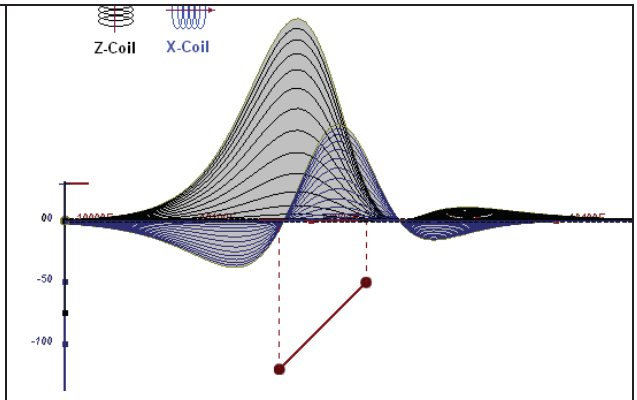


Fig E-2: inclined thin plate

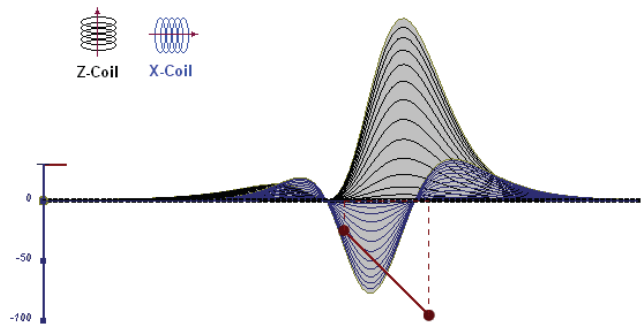


Fig E-3: inclined thin plate

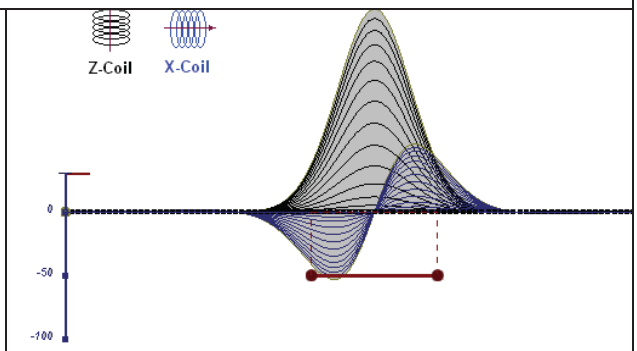


Fig E-4: horizontal thin plate

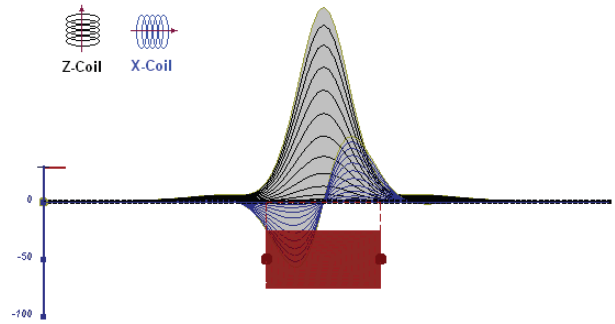


Figure E-5: horizontal thick plate (linear scale of the response)

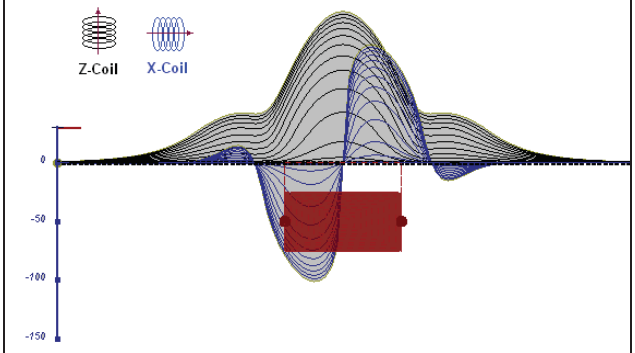


Figure E-6: horizontal thick plate (log scale of the response)

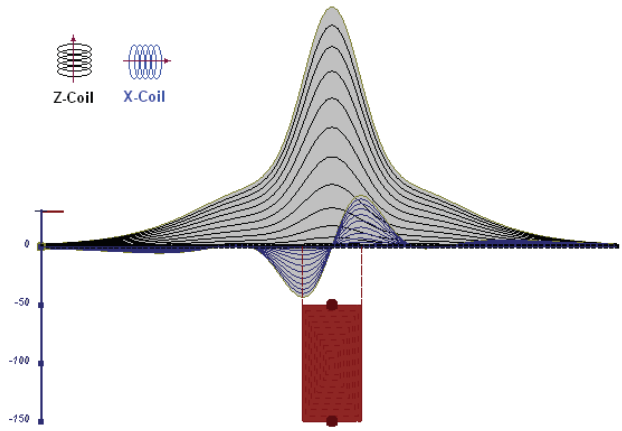


Figure E-7: vertical thick plate (linear scale of the response). 50 m depth

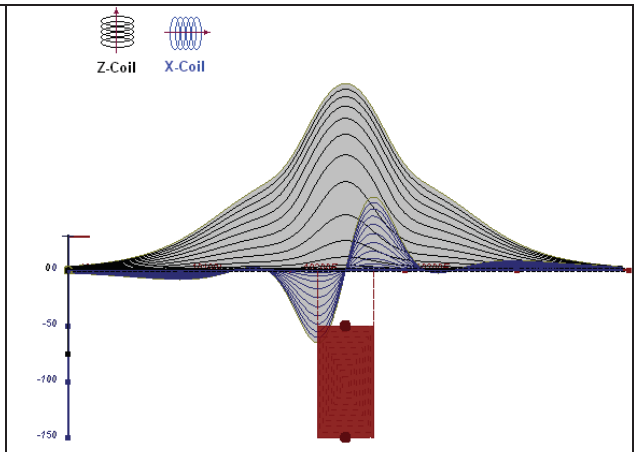


Figure E-8: vertical thick plate (log scale of the response). 50 m depth

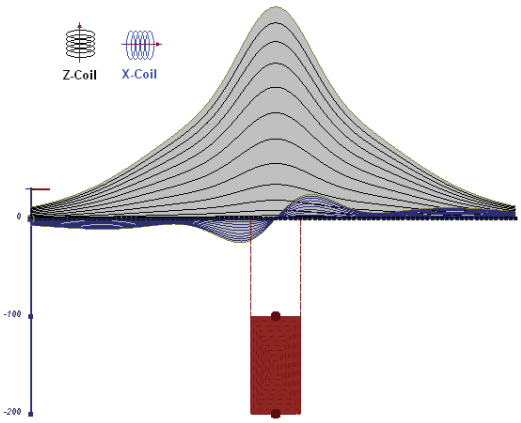


Fig E-9: vertical thick plate (linear scale of the response). 100 m depth

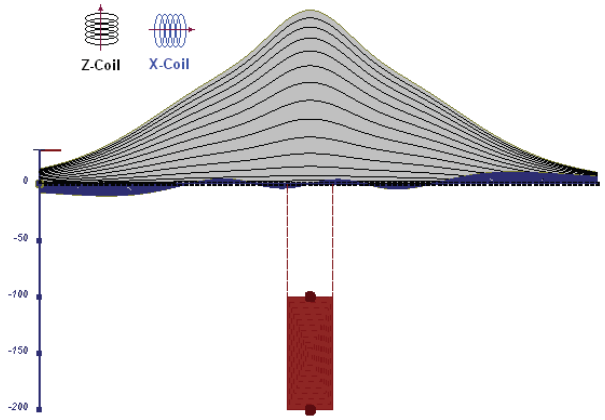


Fig E-10: vertical thick plate (linear scale of the response). Depth/hor.thickness=2.5

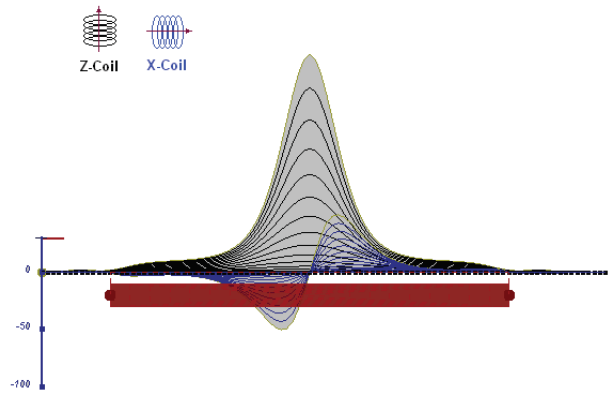


Fig E-10: horizontal thick plate (linear scale of the response)

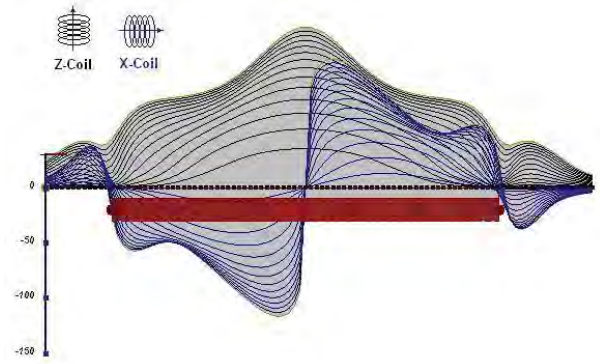


Fig E-11: horizontal thick plate (log scale of the response)

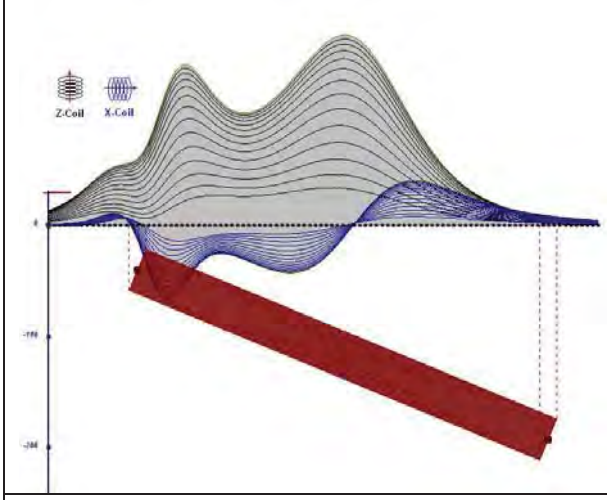


Fig E-12: inclined long thick plate

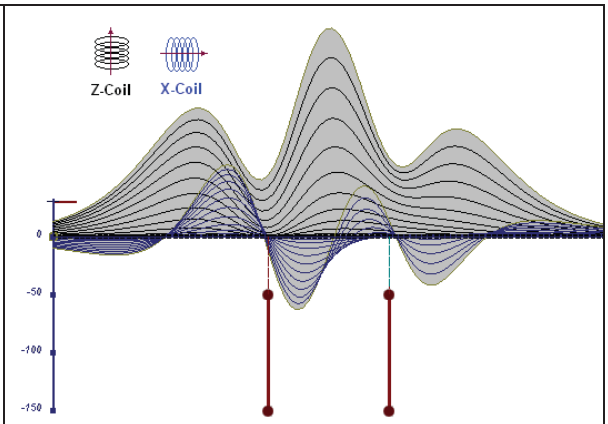


Fig E-13: two vertical thin plates

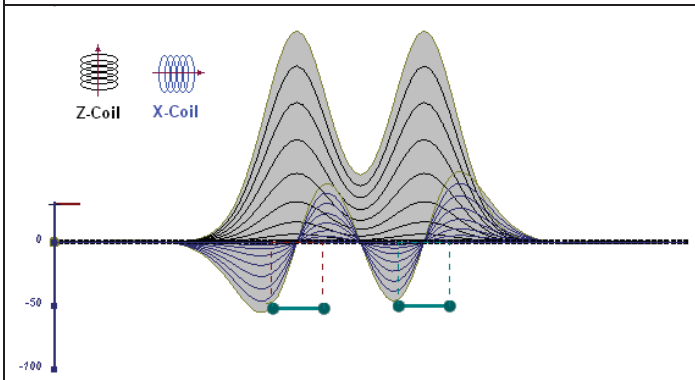


Fig E-14: two horizontal thin plates

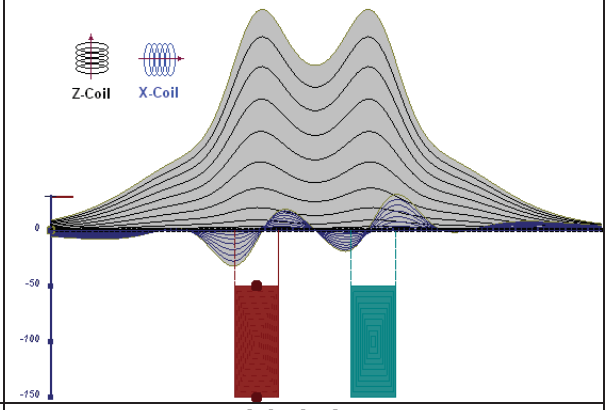


Fig E-15: two vertical thick plates

The same type of target but with different thickness, for example, creates different form of the response:

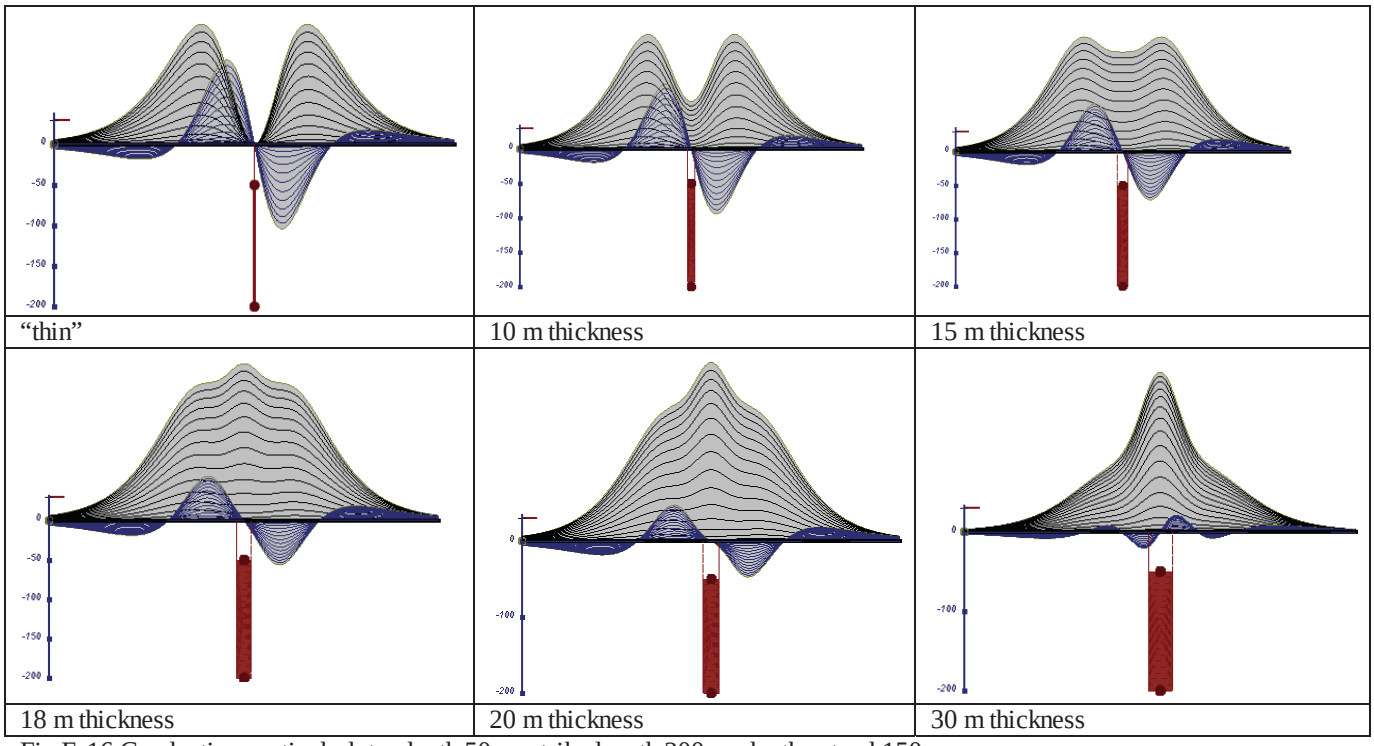


Fig.E-16 Conductive vertical plate, depth 50 m, strike length 200 m, depth extend 150 m.

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September 2010

APPENDIX F

EM TIME CONSTANT (TAU) ANALYSIS

Estimation of time constant parameter[1] in transient electromagnetic method is one of the steps toward the extraction of the information about conductance's beneath the surface from TEM measurements.

The most reliable method to discriminate or rank conductors from overburden, background or one and other is by calculating the EM field decay time constant (TAU parameter), which directly depends on conductance despite their depth and accordingly amplitude of the response.

Theory

As established in electromagnetic theory, the magnitude of the electro-motive force (emf) induced is proportional to the time rate of change of primary magnetic field at the conductor. This emf causes eddy currents to flow in the conductor with a characteristic transient decay, whose Time Constant (Tau) is a function of the conductance of the survey target or conductivity and geometry (including dimensions) of the target. The decaying currents generate a proportional secondary magnetic field, the time rate of change of which is measured by the receiver coil as induced voltage during the Off time.

The receiver coil output voltage ($\mathbf{e_0}$) is proportional to the time rate of change of the secondary magnetic field and has the form,

$$e_0 \alpha (1 / \tau) e^{-(t / \tau)}$$

Where,

τ = L/R is the characteristic time constant of the target (TAU)
R = resistance
L = inductance

From the expression, conductive targets that have small value of resistance and hence large value of τ yield signals with small initial amplitude that decays relatively slowly with progress of time. Conversely, signals from poorly conducting targets that have large resistance value and smallτ, have high initial amplitude but decay rapidly with time[1] (Fig. F1).

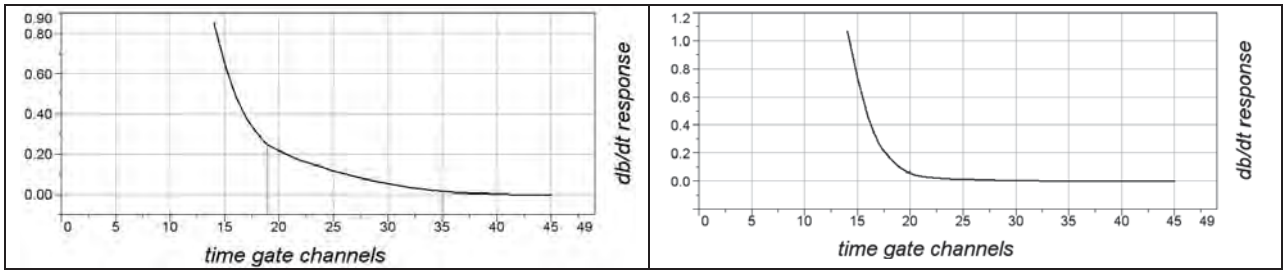

Figure F1 Left – presence of good conductor, right – poor conductor.

[1] McNeill, JD, 1980, "Applications of Transient Electromagnetic Techniques", Technical Note TN-7 page 5, Geonics Limited, Mississauga, Ontario.

EM Time Constant (Tau) Calculation

The EM Time-Constant (TAU) is a general measure of the speed of decay of the electromagnetic response and indicates the presence of eddy currents in conductive sources as well as reflecting the "conductance quality" of a source. Although TAU can be calculated using either the measured dB/dt decay or the calculated B-field decay, dB/dt is commonly preferred due to better stability (S/N) relating to signal noise. Generally, TAU calculated on base of early time response reflects both near surface overburden and poor conductors whereas, in the late ranges of time, deep and more conductive sources, respectively. For example early time TAU distribution in an area that indicates conductive overburden is shown in Figure 2.

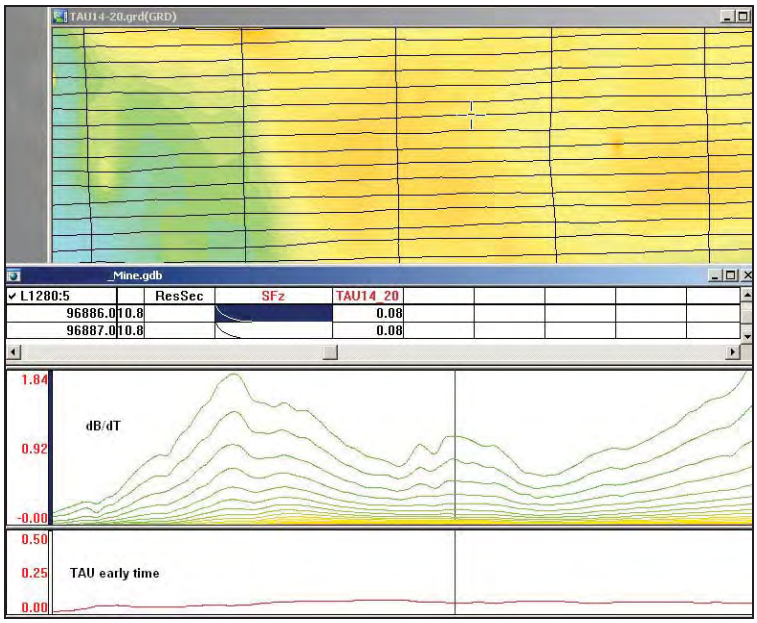

Figure F2 – Map of early time TAU. Area with overburden conductive layer and local sources.

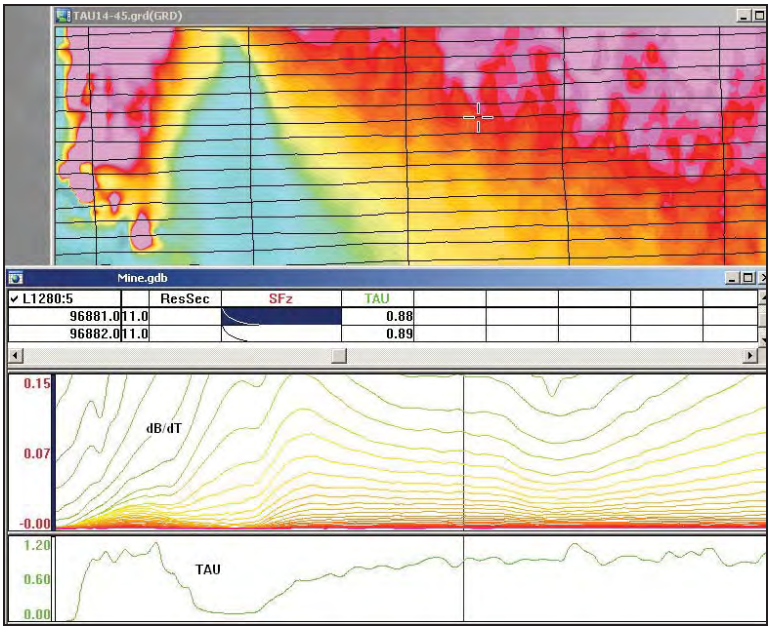

Figure F3 – Map of full time range TAU with EM anomaly due to deep highly conductive target.

There are many advantages of TAU maps:

- TAU depends only on one parameter (conductance) in contrast to response magnitude;
- TAU is integral parameter, which covers time range and all conductive zones and targets are displayed independently of their depth and conductivity on a single map.
- Very good differential resolution in complex conductive places with many sources with different conductivity.
- Signs of the presence of good conductive targets are amplified and emphasized independently of their depth and level of response accordingly.

In the example shown in Figure 4 and 5, three local targets are defined, each of them with a different depth of burial, as indicated on the resistivity depth image (RDI). All are very good conductors but the deeper target (number 2) has a relatively weak dB/dt signal yet also features the strongest total TAU (Figure 4). This example highlights the benefit of TAU analysis in terms of an additional target discrimination tool.

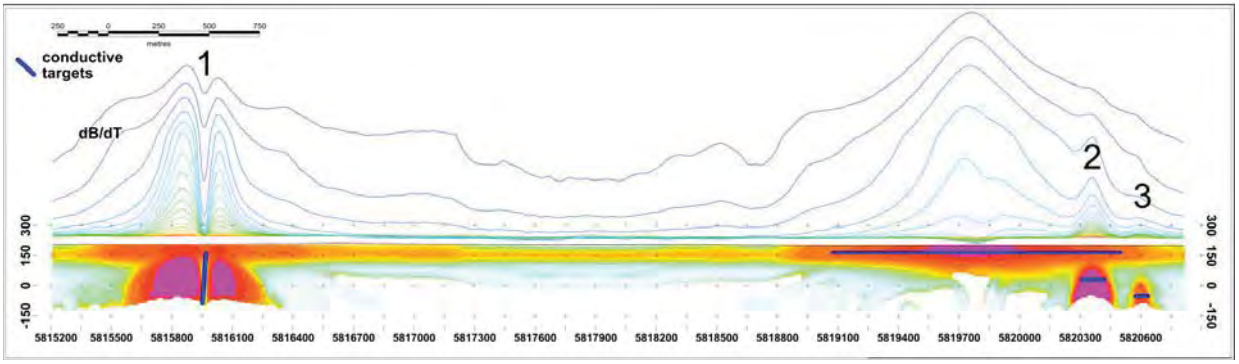

Figure F4 – dB/dt profile and RDI with different depths of targets.

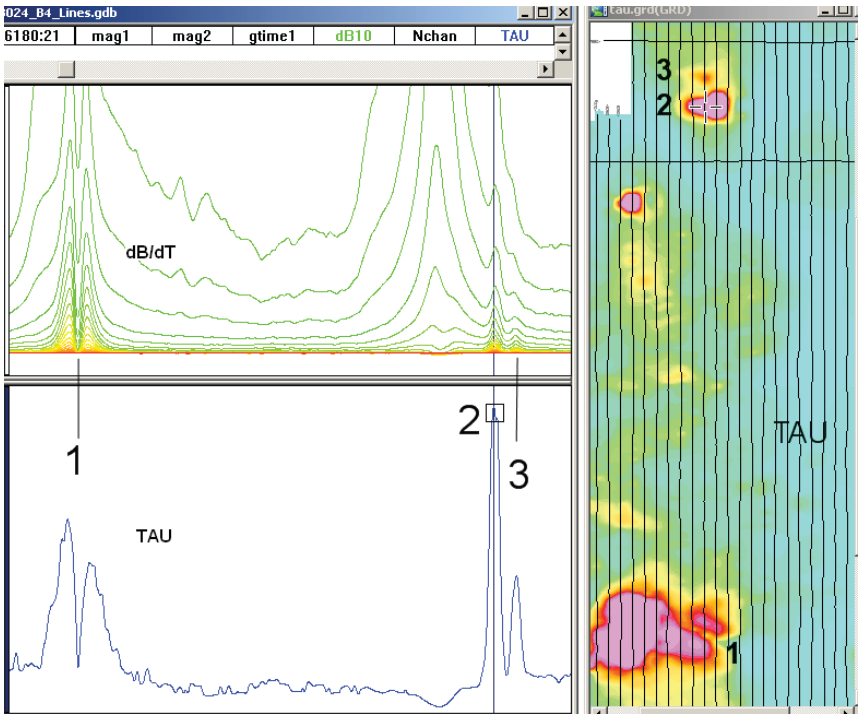

Figure F5 – Map of total TAU and dB/dt profile.

The EM Time Constants for dB/dt and B-field were calculated using the "sliding Tau" in-house program developed at Geotech2. The principle of the calculation is based on using of time window (4 time channels) which is sliding along the curve decay and looking for latest time channels which have a response above the level of noise and decay. The EM decays are obtained from all available decay channels, starting at the latest channel. Time constants are taken from a least square fit of a straight-line (log/linear space) over the last 4 gates above a pre-set signal threshold level (Figure F6). Threshold settings are pointed in the "label" property of TAU database channels. The sliding Tau method determines that, as the amplitudes increase, the time-constant is taken at progressively later times in the EM decay. Conversely, as the amplitudes decrease, Tau is taken at progressively earlier times in the decay. If the maximum signal amplitude falls below the threshold, or becomes negative for any of the 4 time gates, then Tau is not calculated and is assigned a value of "dummy" by default.

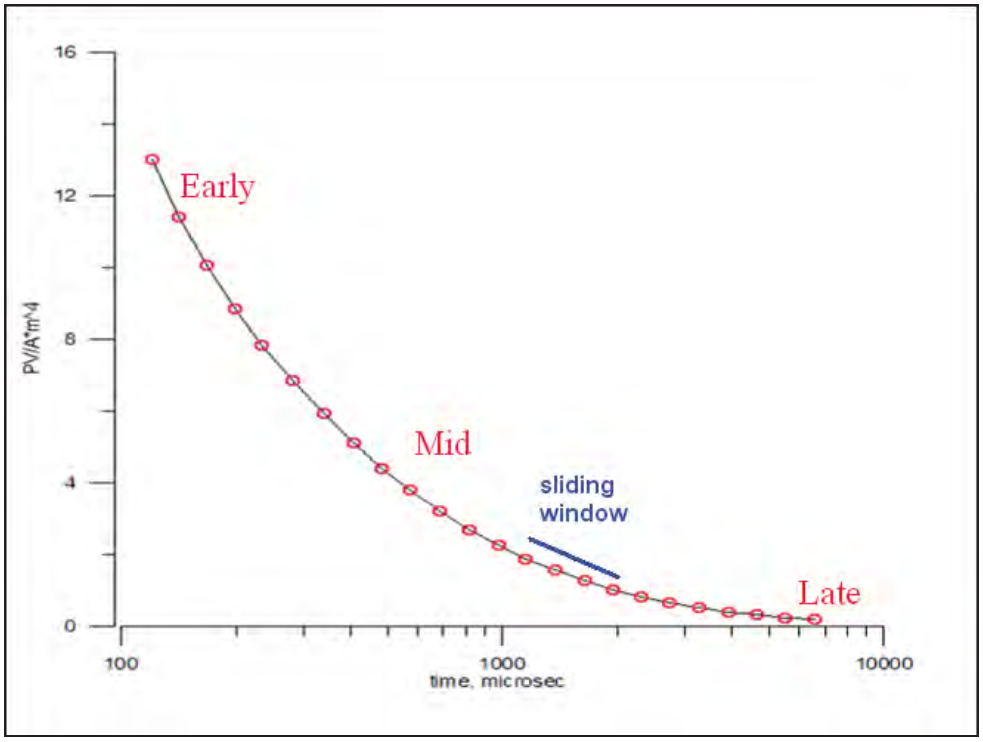

Figure F6 - Typical dB/dt decays of VTEM data

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September 2010

[2] by A.Prikhodko

APPENDIX G

TEM Resistivity Depth Imaging (RDI)

Resistivity depth imaging (RDI) is technique used to rapidly convert EM profile decay data into an equivalent resistivity versus depth cross-section, by deconvolving the measured TEM data.
The used RDI algorithm of Resistivity-Depth transformation is based on scheme of the apparent resistivity transform of Maxwell A.Meju (1998)[1] and TEM response from conductive half-space. The program is developed by Alexander Prikhodko and depth calibrated based on forward plate modeling for VTEM system configuration (Fig. 1-10).

RDIs provide reasonable indications of conductor relative depth and vertical extent, as well as accurate 1D layered-earth apparent conductivity/resistivity structure across VTEM flight lines. Approximate depth of investigation of a TEM system, image of secondary field distribution in half space, effective resistivity, initial geometry and position of conductive targets is the information obtained on base of the RDIs.

Maxwell forward modeling with RDI sections from the synthetic responses (VTEM system)

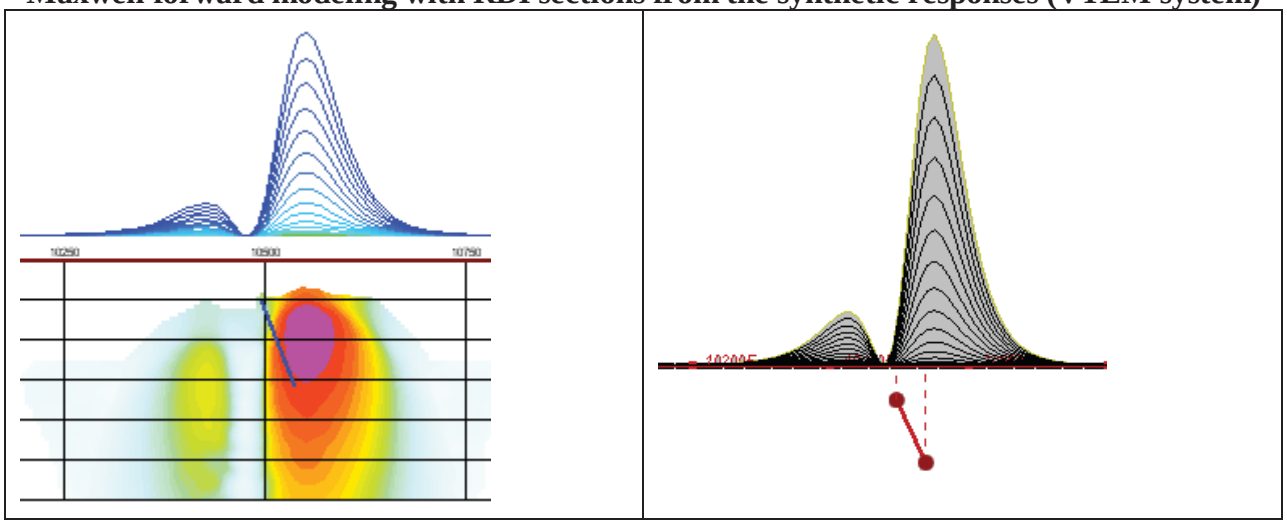


Fig. 1 Maxwell plate model and RDI from the calculated response for conductive "thin" plate (depth 50 m, dip 65 degree, depth extend 100 m).

[1] Maxwell A.Meju, 1998, Short Note: A simple method of transient electromagnetic data analysis, Geophysics, **63**, 405–410.

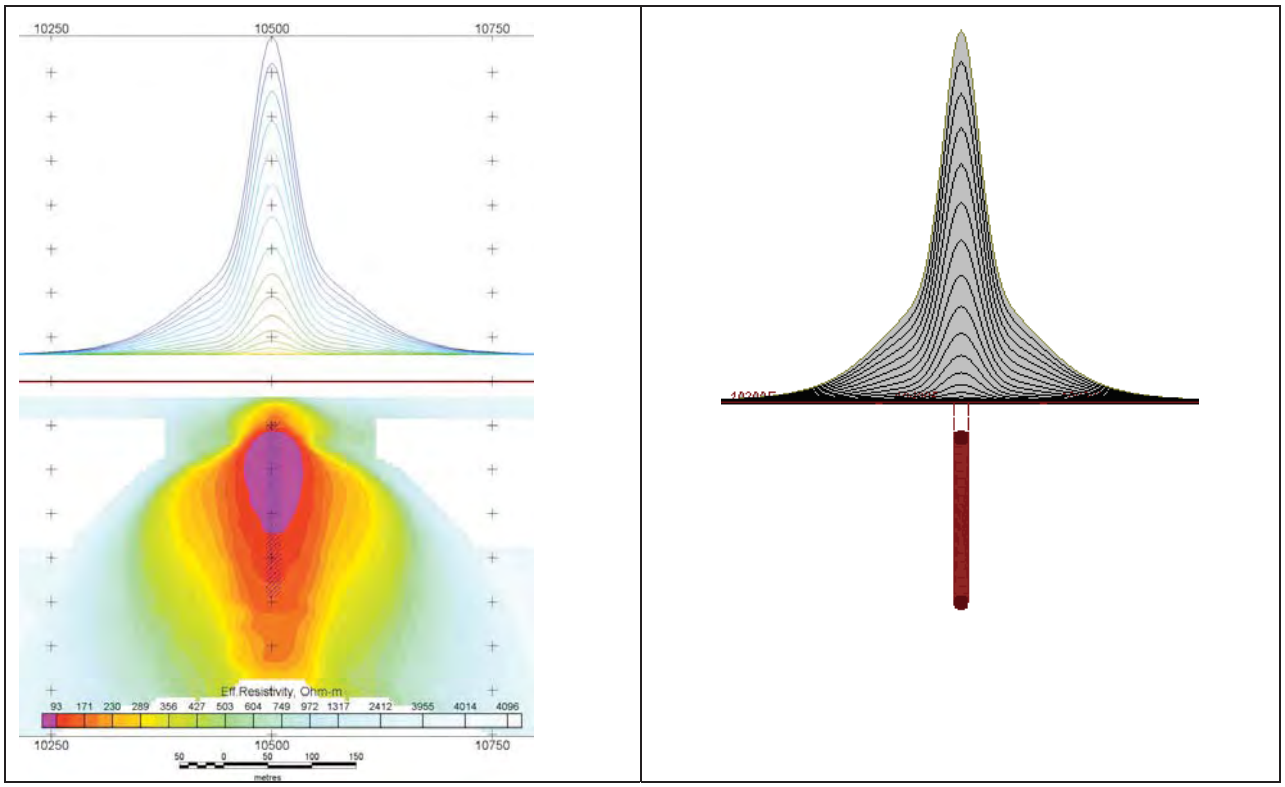


Fig. 2 Maxwell plate model and RDI from the calculated response for "thick" plate 18 m thickness, depth 50 m, depth extend 200 m).

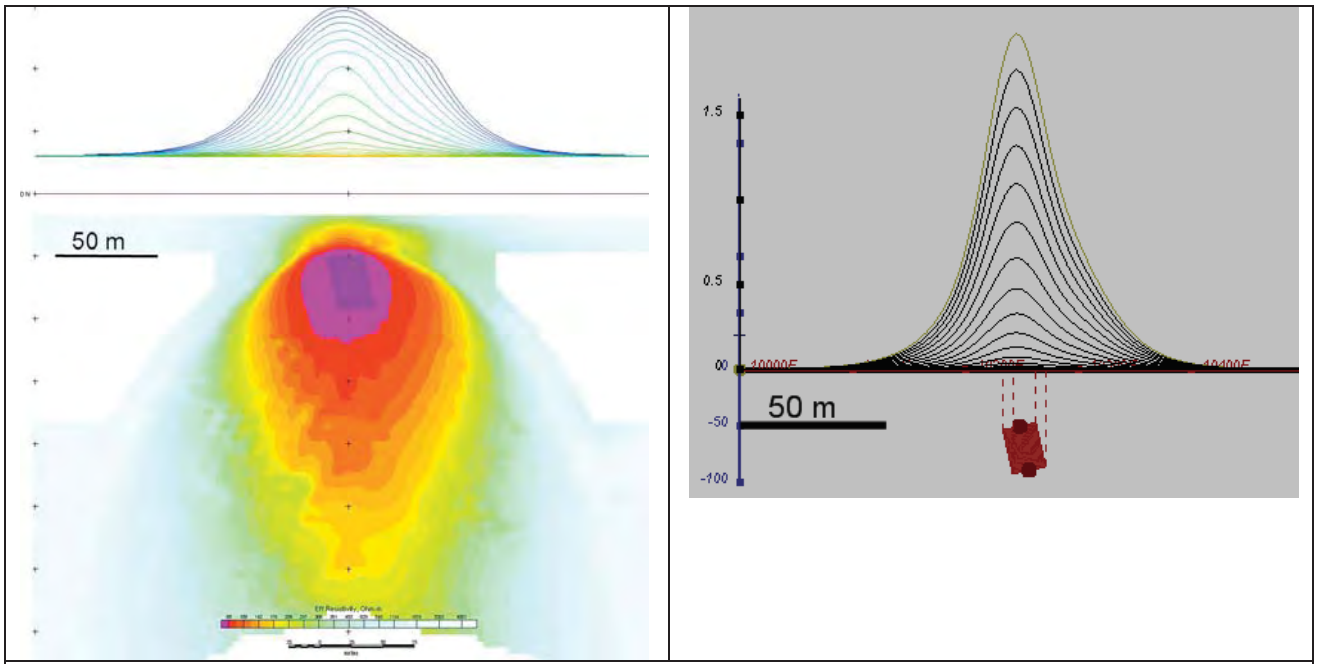


Fig.3 Maxwell plate model and RDI from the calculated response for bulk ("thick") 100 m length, 40 m depth extend, 30 m thickness

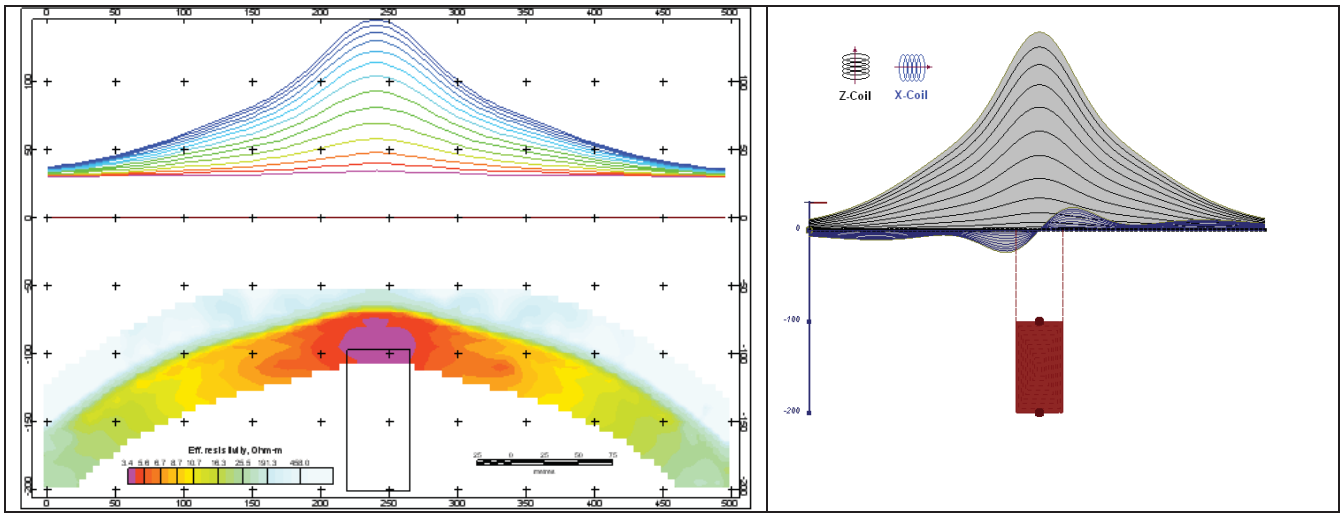


Fig. 4 Maxwell plate model and RDI from the calculated response for "thick" vertical target (depth 100 m, depth extend 100 m). 19-44 chan.

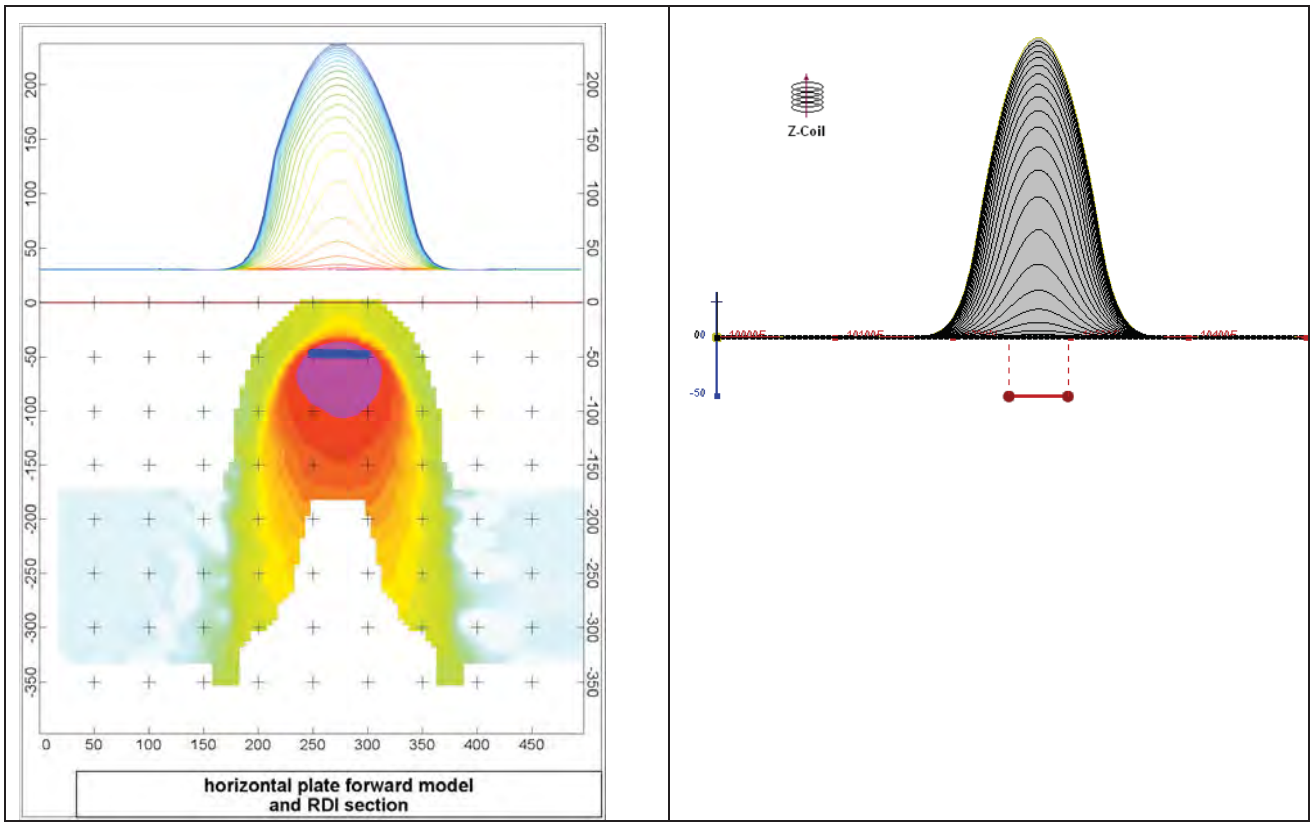


Fig. 5 Maxwell plate model and RDI from the calculated response for horizontal thin plate (depth 50 m, dim 50x100 m). 15-44 chan.

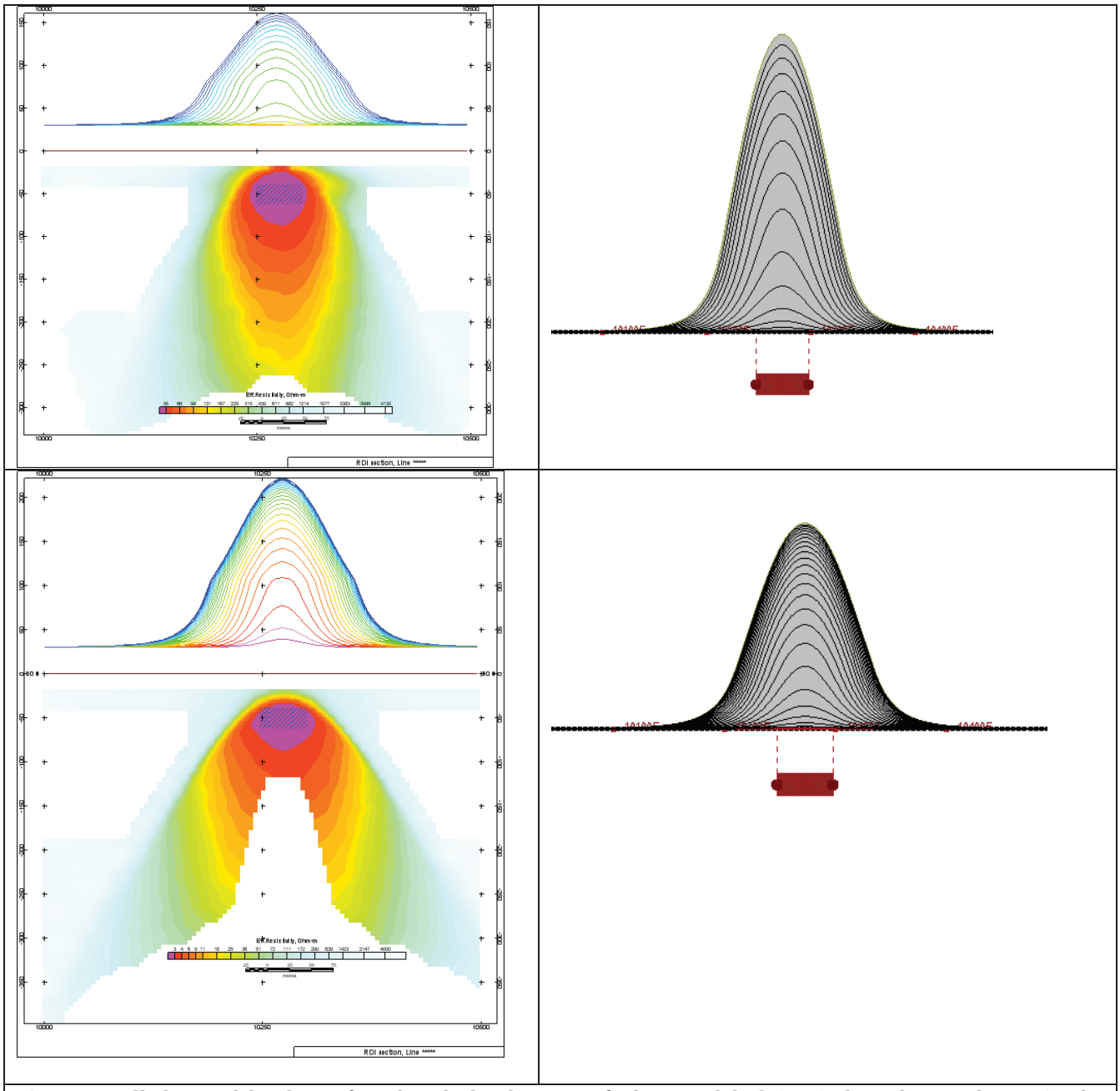


Fig.6 Maxwell plate model and RDI from the calculated response for horizontal thick (20m) plate – less conductive (on the top), more conductive (below)

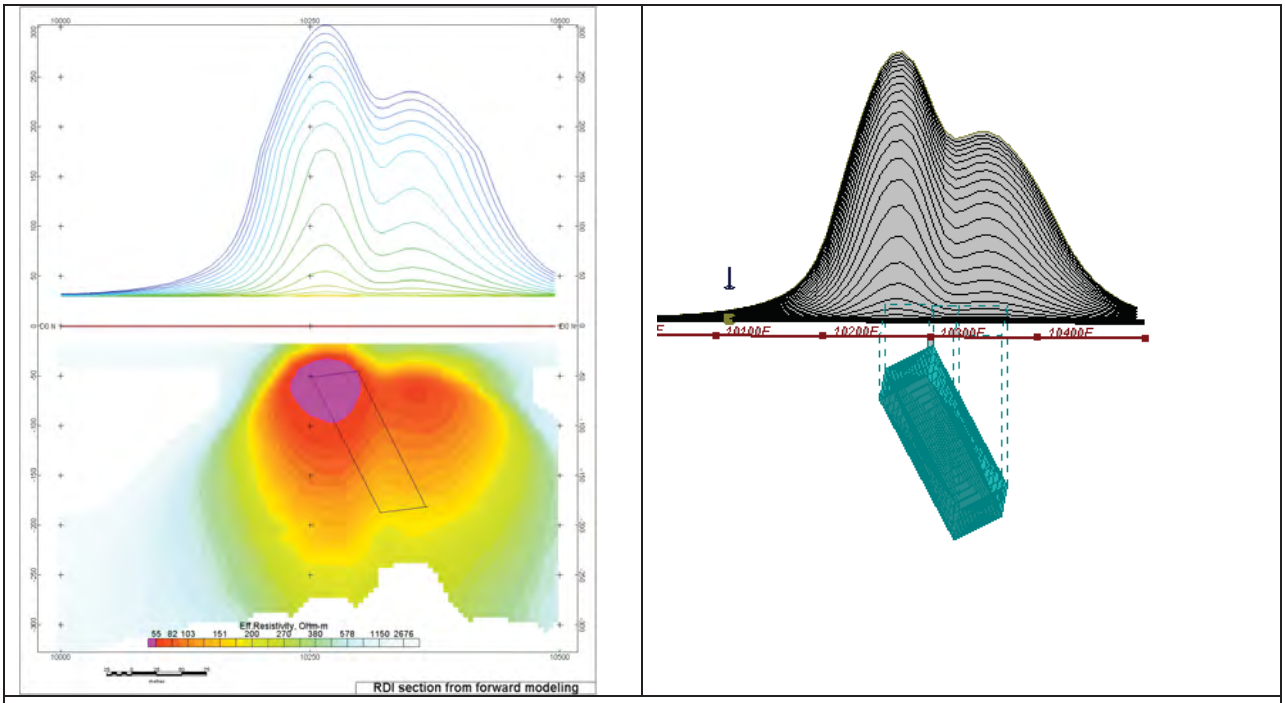


Fig.7 Maxwell plate model and RDI from the calculated response for inclined thick (50m) plate. Depth extend 150 m, depth to the target 50 m.

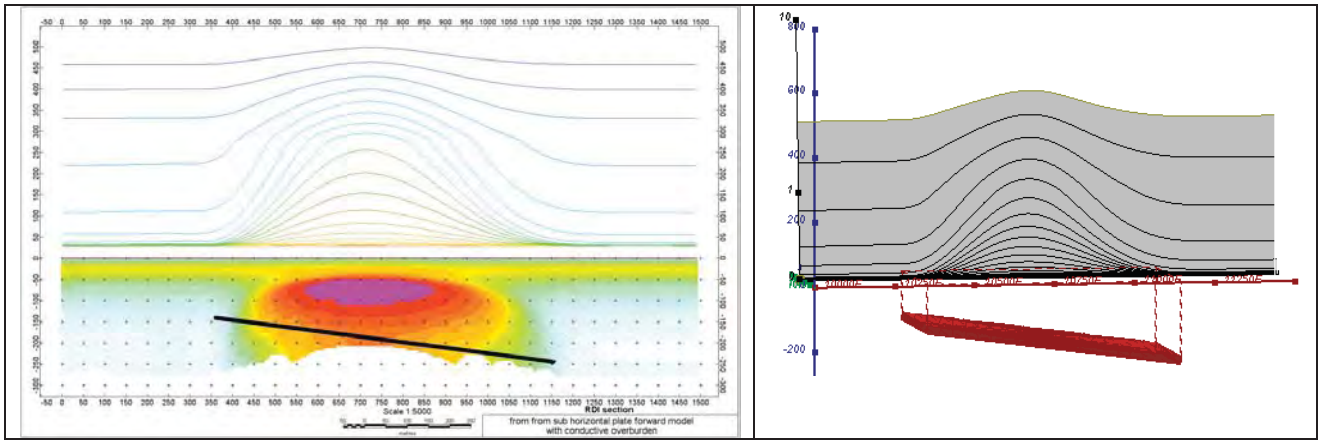


Fig.8 Maxwell plate model and RDI from the calculated response for the long, wide and deep sub horizontal plate (depth 140 m, dim 25x500x800 m) with conductive overburden.

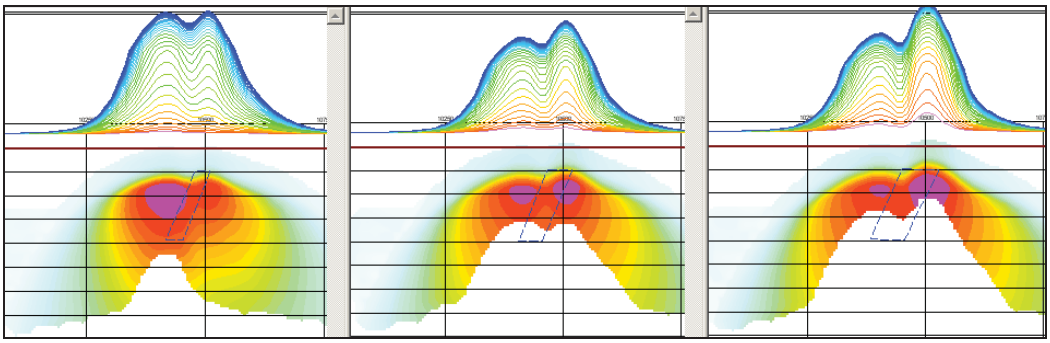


Fig.9 Maxwell plate models and RDIs from the calculated response for "thick" dipping plates (35, 50, 75 m thickness), depth 50 m, conductivity 2.5 S/m.

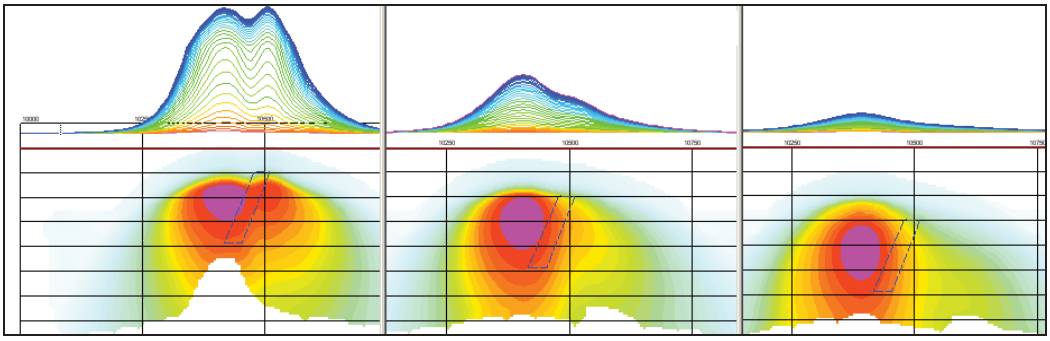


Fig.10 Maxwell plate models and RDIs from the calculated response for "thick" (35 m thickness) dipping plate on different depth (50, 100, 150 m), conductivity 2.5 S/m.

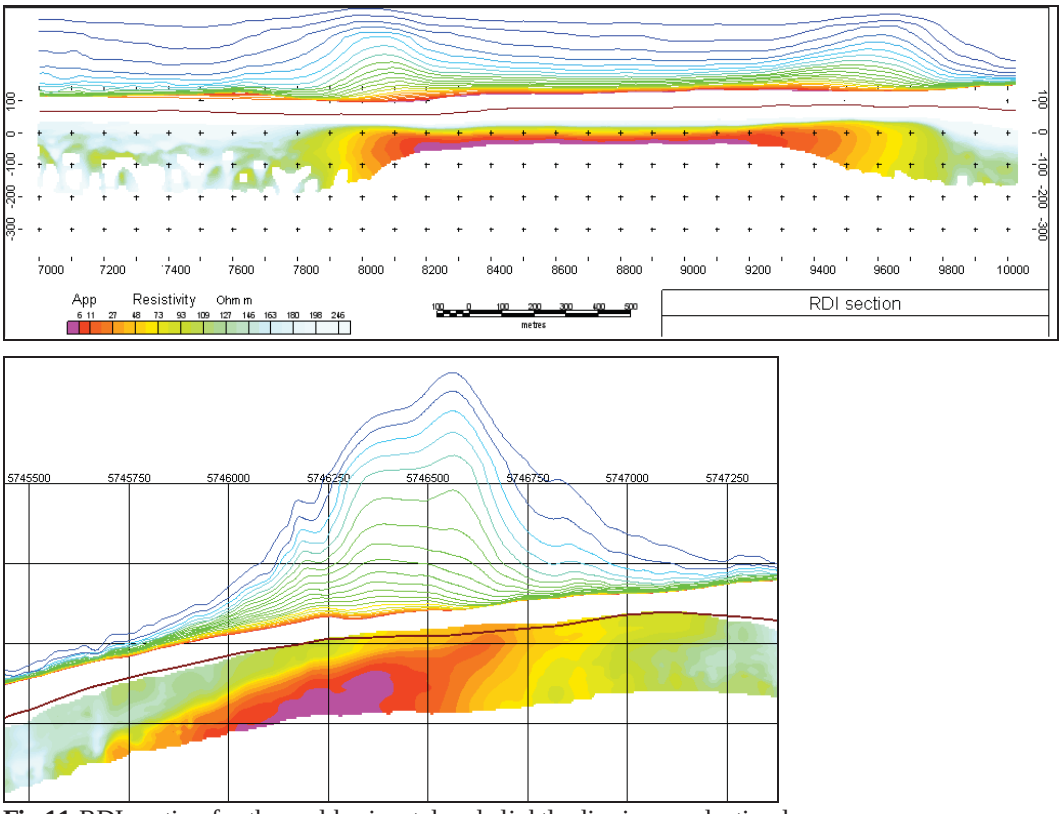
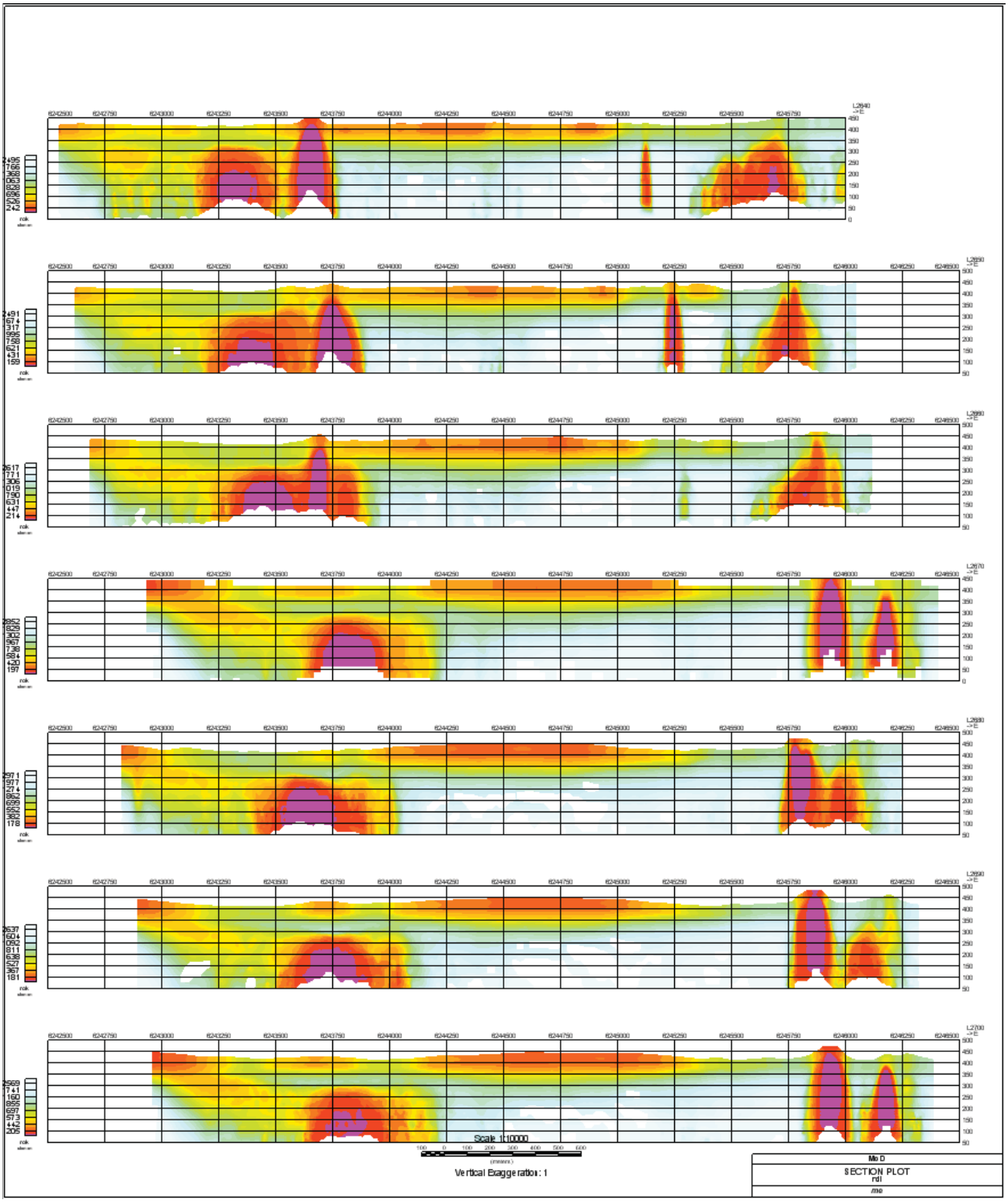


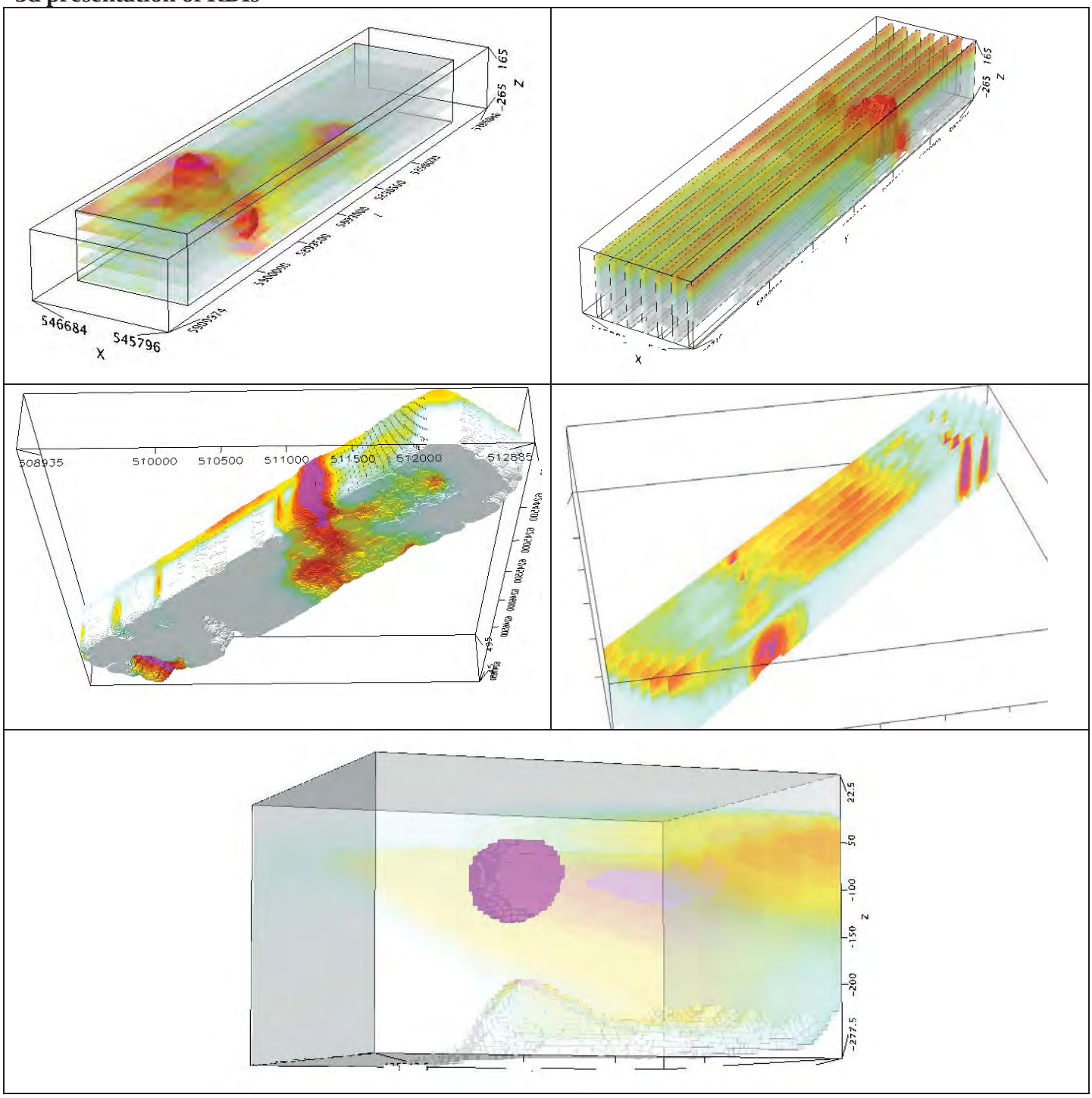
Fig.11 RDI section for the real horizontal and slightly dipping conductive layers

Forms of RDI presentation

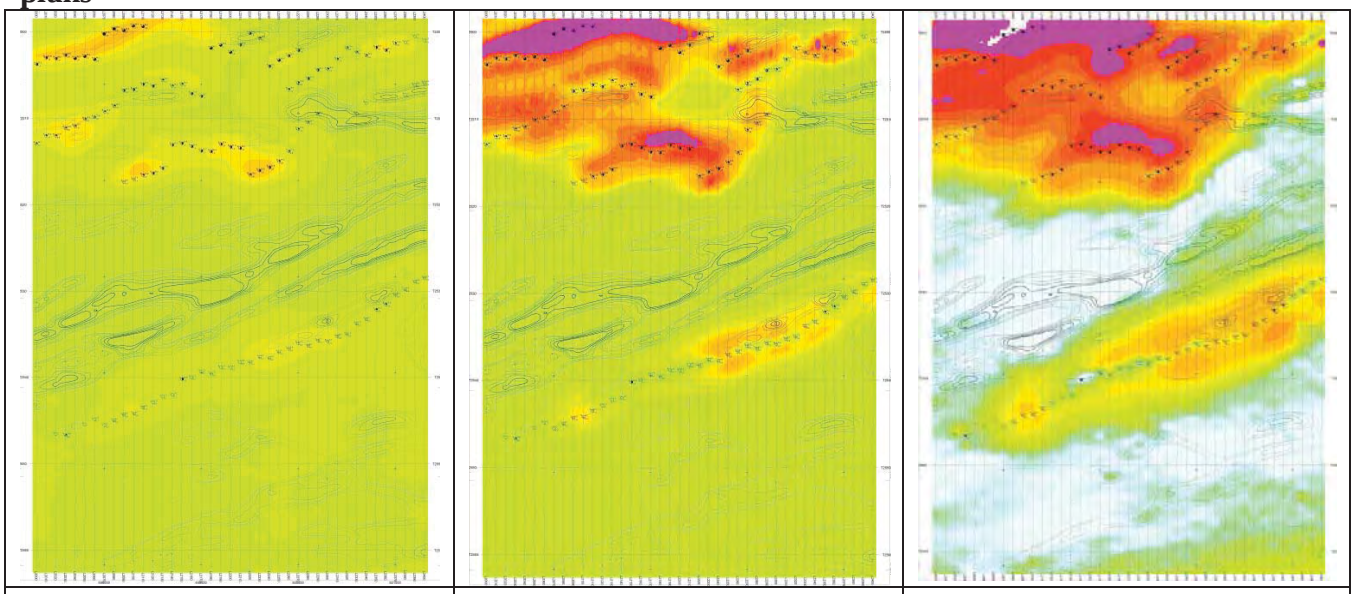
Presentation of series of lines



3d presentation of RDIs

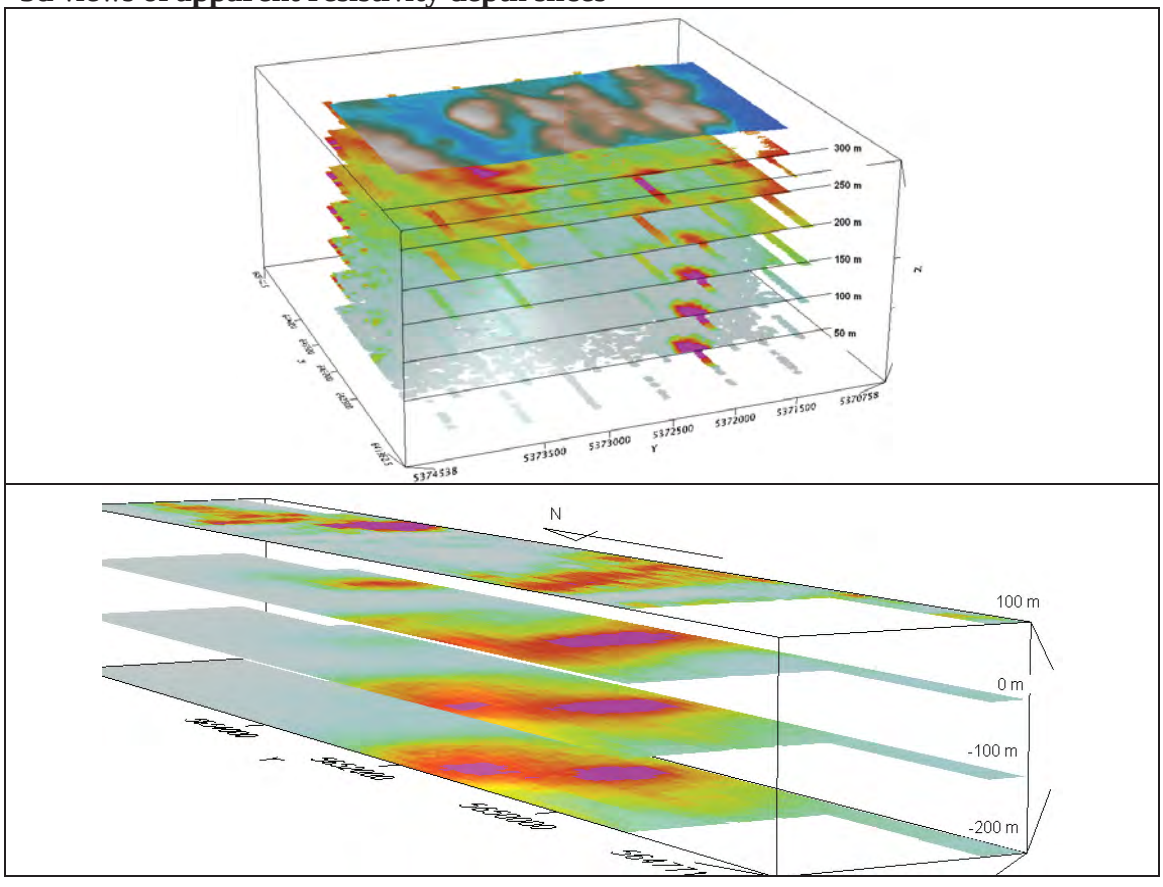


Apparent Resistivity Depth Slices plans



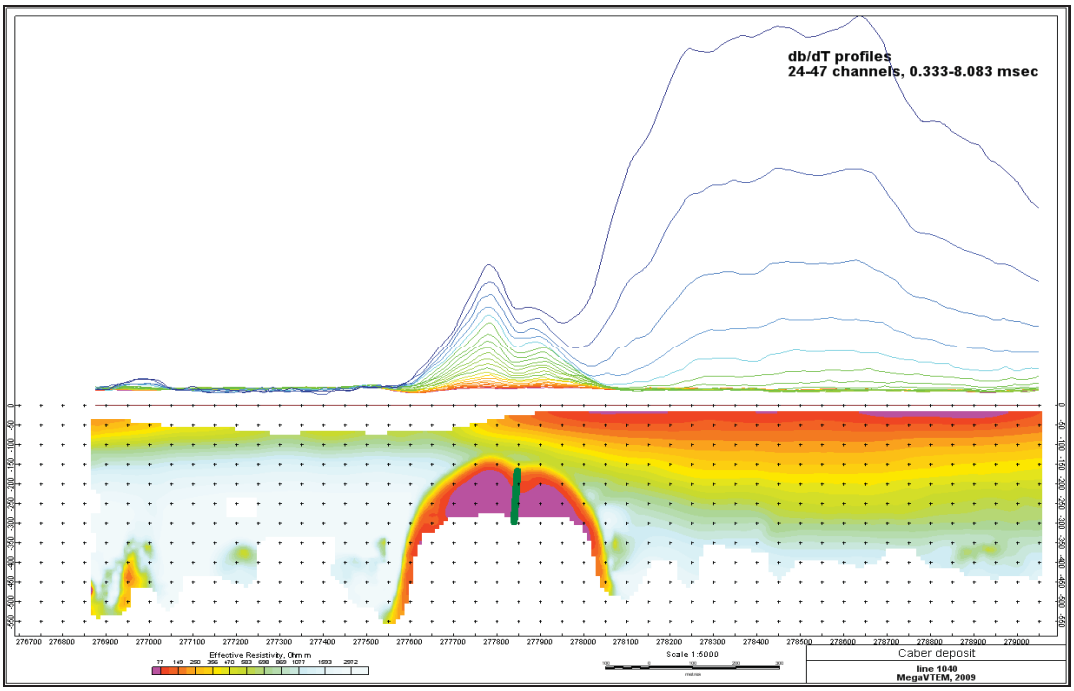
0 m (surface)	-100 m	-200 m

3d views of apparent resistivity depth slices

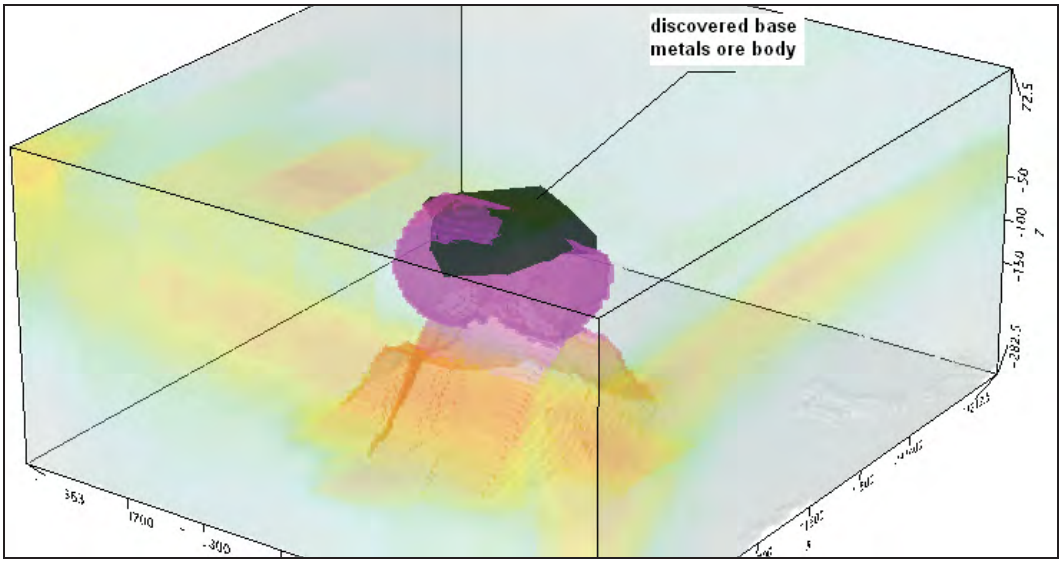


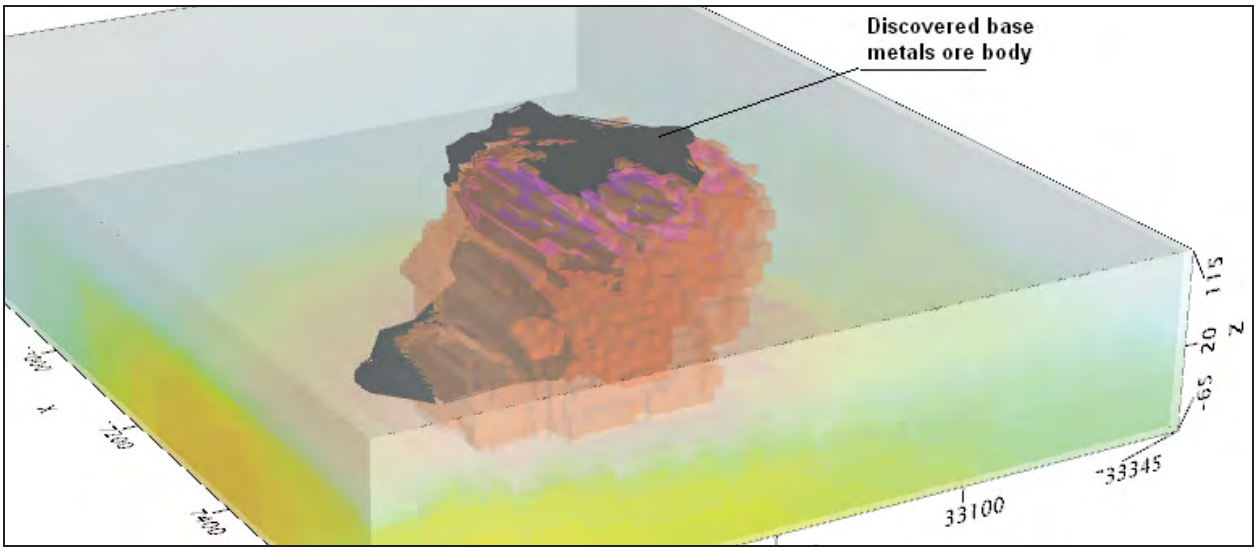
Real base metal targets in comparison with RDIs:

RDI section of the line over Caber deposit ("thin" sub vertical plate target and conductive overburden.



3d RDI voxels with base metals ore bodies (Middle East):





Alexander Prikhodko, PhD, P.Geo
Geotech Ltd.
April 2011

Appendix 4

Grab Sample Results

Sample ID	Date	Showing	Coordinates		Lithology	Material Sampled	Grain Size			Altn Int	Altn Type	Veining	Relief	Strike	Dip
			X_Nad83z15	Y_Nad83z15			fine	med	crs						
12CLP001	August 1, 2012	Seal Island	438492	8178457	Oolitic Sandstone	O/C	x	x					High		
12CLP002	August 1, 2012	Seal Island	438707	8177936	Sandstone	Bldr		x					Low		
12CLP003	August 1, 2012	Seal Island	438033	8178251	Sandstone	O/C							Mod		
12BAP100	August 1, 2012	Seal Island	438465	8178468	Quartz Vein	O/C		x		Mod		Stock	Mod		
12BAP101	August 1, 2012	Seal Island	439211	8178168	Quartzite	Talus		x					Mod		
12BAP102	August 1, 2012	Seal Island	438028	8178212	Quartz Vein	O/C	x						Low		
12TFP001	July 21, 2012	Seal	439004	8183616	Quartz Arenite	O/C	x			Str	Cbn	Mod	Mod	198	60
12VSP001	July 21, 2012	Seal	438966	8183578	Quartz Arenite	Bldr			x		Cbn		Mod		
12VSP002	July 21, 2012	Seal	439001	8183539	Quartz Arenite	Gsn			x		Cbn		Mod		
12WBP101	July 21, 2012	Seal	438887	8183695	Quartz Arenite	Talus	x								
12WBP102	July 21, 2012	Seal	438870	8183645	Quartz Arenite	Talus	x								
12WBP103	July 21, 2012	Seal	438928	8183614	Quartz Arenite Gossan & Sphalerite	Talus	x								
12WBP104	July 21, 2012	2200 Zone	466296	8172208	Cu-rich zone in Dolomitic Limestone										
12WBP105	July 21, 2012	2750 Zone	466264	8172795	Cu-rich zone in Dolomitic Limestone	Talus	x								

Sample ID	Composition (%)														Sulphides (relative %)						Remarks
	qtz	flds	ms	bt	amp	chl	pyx	ol	gar	cbn	sulph	ox	other	other	py	po	cpy	gal	sp	other	
12CLP001	x									x	x				x					Mcrs	Fine grained disseminated marcasite
12CLP002	x										x				x					Mcrs	Sandstone boulder with black cherty vein hosting disseminated marcasite
12CLP003	x										x	x			x					Mcrs	Small pod (<50cm visible diameter) of highly oxidized sandstone; Blue mineral (lazurite?)
12BAP100	x											x									stockworked outcrop of laminated oolitic dolostone; Hematite staining associated with the veining; Quartz veins along beds / laminations are boudinaged; colloform and comb textures observed in veins
12BAP101	x										x				x						medium grained massive quartzite with fine grained disseminated pyrite.
12BAP102	x									x	x				x				x	Mcrs	Fine grained banded vein associated with quartz carbonate (dolomite) flooding.
12TFP001																			5		5% Marcasite; Brecciation
12VSP001	85									10	5				tr.				5		
12VSP002	60					25					15				5				10		
12WBP101											5										String of very strongly oxidized talus piles along slope of ridge; Quartz clasts subrounded, <1mm; Sulphides are very fine grained, cannot ID, mineralization marked by darker colour than regular white quartz arenite, 50% grey; Sampled from numerous boulders in talus pile, all 7 <30x20x20cm
12WBP102	95										5										Boulder A - 25x15x50cm, in talus, mid-slope; Very well sorted, sub-rounded quartz grains; Sulphide nodules are dark grey and marcasite is included in sulphide content
12WBP103	20										80								75		Gossanous talus mid-slope; Up to golf ball sized pieces of massive to semi-massive sphalerite; Jet black colour
12WBP104										20											Pieces of Cu mineral rich rock in a small area; Strongly weathered; Unable to ID all Cu minerals; Malachite and azurite coating
12WBP105										40			CC	BN							Frost boil and talus material rich in Cu minerals; 25% MAL, 25% AZ, 5% BN, 5% CC; chalcocite is very fine grained

Appendix 5

Core Intervals and Descriptions

Hole ID	Sample ID	Lab Certificate	DH From (m)	DH To (m)	Interval Length (m)	Ag_ppm	Cu_%	Pb_%	Zn_%	Lithology	Description
AB95-02	M999301	YW12175933	49.00	50.40	1.40	0.9	0.003	0.001	**0.122**	Dolomicrite / Sandy Dolostone	Interbedded dolomicrite and sandy dolostone; dm scale sandstone interbeds; bedded, often disturbed from 47.5
AB95-02	M999302	YW12175933	50.40	51.80	1.40	0.5	0.002	0.002	0.083		
AB95-02	M999303	YW12175933	51.80	52.80	1.00	**14.0**	0.003	0.011	**6.040**	Semi-Sulphide Rock	Broken zone; highly oxidized and weathered to unlithified state; MRC/PY + SPH
AB95-02	M999304	YW12175933	52.80	54.30	1.50	**41.2**	0.008	0.040	**19.450**		
AB95-02	M999305	YW12175933	54.30	55.30	1.00	**28.8**	0.007	0.039	**15.100**		
AB95-02	M999306	YW12175933	55.30	57.00	1.70	**19.9**	0.005	0.039	**8.570**	Sulphide Rock	Broken zone; highly oxidized and weathered to unlithified state; MRC/PY + SPH
AB95-02	M999307	YW12175933	57.00	58.00	1.00	**37.2**	0.004	0.022	**13.250**		
AB95-02	M999308	YW12175933	58.00	59.10	1.10	**35.9**	0.003	0.022	**9.580**		
AB95-02	M999309	YW12175933	59.10	60.00	0.90	**9.7**	0.002	0.013	**2.340**	Sandstone	Well sorted, quartz rich; disseminated PY/MRC
AB95-02	M999310	YW12175933	60.00	60.70	0.70	**59.1**	0.004	0.020	**16.700**		
AB95-02	M999311	YW12175933	60.70	62.00	1.30	**4.8**	0.001	0.006	**1.210**		
AB95-02	M999312	YW12175933	62.00	63.00	1.00	**1.0**	0.002	0.003	**0.143**		
AB95-02	M999313	YW12175933	63.00	64.00	1.00	0.5	0.000	0.002	**0.124**		
AB95-02	M999314	YW12175933	64.00	65.00	1.00	0.7	0.001	0.003	0.070		
AB95-02	M999315	YW12179287	65.00	66.40	1.40	**9.2**	0.003	0.011	**2.750**		
AB95-02	M999316	YW12179287	66.40	67.00	0.60	**42.9**	0.008	0.030	**13.100**	Semi-Sulphide Rock	Broken zone; highly oxidized and weathered to unlithified state; MRC/PY + SPH
AB95-02	M999317	YW12179287	67.00	68.00	1.00	**58.9**	0.007	0.026	**19.850**		
AB95-02	M999318	YW12179287	68.00	69.00	1.00	**19.7**	0.003	0.025	**5.820**		
AB95-02	M999319	YW12179287	69.00	69.80	0.80	**14.5**	0.002	0.021	**5.240**		
AB95-02	M999320	YW12179287	69.80	70.60	0.80	**65.6**	0.008	0.029	**16.450**		
AB95-02	M999321	YW12179287	70.60	72.30	1.70	**1.9**	0.001	0.005	**0.341**	Pyritic Sandstone / Dolomitic Sandstone	Fractured and vuggy sandstone; disseminated and void filling pyrite; chlorite alteration associated with fractures
AB95-02	M999322	YW12179287	72.30	73.50	1.20	0.6	0.001	0.003	0.093		
AB95-03	M999323	YW12179287	75.00	76.00	1.00	0.5	0.001	0.002	**0.121**	Massive Sulphide	massive, oxidized, crumbled, sulphide - top 0.5m is broken down sandstone
AB95-03	M999324	YW12179287	76.00	76.60	0.60	**2.4**	0.001	0.006	**0.650**		
AB95-03	M999325	YW12179287	76.60	77.70	1.10	**54.8**	0.004	0.015	**21.800**		
AB95-03	M999326	YW12179287	77.70	78.50	0.80	**20.6**	0.002	0.016	**4.590**		
AB95-03	M999327	YW12179287	78.50	80.00	1.50	**43.8**	0.002	0.015	**12.950**		
AB95-03	M999328	YW12179287	80.00	81.00	1.00	**30.5**	0.002	0.013	**6.720**		
AB95-03	M999329	YW12179287	81.00	82.60	1.60	-0.5	0.000	0.001	0.057	Quartz Sandstone	Massive, medium grained.
AB95-03	M999331	YW12179287	82.60	84.00	1.40	0.5	0.001	0.001	0.030		
AB95-03	M999332	YW12179287	84.00	85.50	1.50	0.5	0.001	0.002	0.042		
AB95-03	M999333	YW12179287	85.50	87.00	1.50	-0.5	0.000	0.002	0.065		
AB95-03	M999334	YW12179287	87.00	88.00	1.00	-0.5	0.001	0.004	0.042		
AB95-03	M999335	YW12179287	88.00	89.00	1.00	**9.5**	0.001	0.004	**1.030**		
AB95-03	M999336	YW12179287	89.00	89.50	0.50	**20.2**	0.002	0.019	**6.900**	Sulphidic Sandstone	Nearly massive, medium grained marcasite.
AB95-03	M999337	YW12179287	89.50	90.50	1.00	**18.3**	0.003	0.031	**2.500**		
AB95-03	M999338	YW12179287	90.50	91.25	0.75	**86.3**	0.008	0.043	**16.200**		
AB95-03	M999339	YW12179287	91.25	92.25	1.00	**11.3**	0.002	0.019	**1.990**		
AB95-03	M999341	YW12179287	92.25	93.50	1.25	**4.7**	0.002	0.017	**0.733**		
AB95-03	M999342	YW12179287	93.50	94.90	1.40	**37.0**	0.006	0.022	**14.400**		
AB95-03	M999343	YW12179287	94.90	95.90	1.00	**71.8**	0.007	0.021	**26.200**		
AB95-03	M999344	YW12179287	95.90	96.50	0.60	**51.5**	0.008	0.029	**18.100**		
AB95-03	M999345	YW12179287	96.50	97.70	1.20	**6.8**	0.003	0.007	**1.930**	Dolo Sandstone	oxidized, broken down, sideritic sandstone
AB95-03	M999346	YW12179287	97.70	98.80	1.10	**15.2**	0.011	0.048	**5.350**		
AB95-03	M999347	YW12179287	98.80	100.00	1.20	**24.9**	0.004	0.033	**0.505**		
AB95-03	M999348	YW12179287	100.00	101.70	1.70	**80.4**	0.018	0.135	**2.480**		
AB95-03	M999349	YW12179287	101.70	103.00	1.30	**3.3**	0.001	0.006	**0.256**		
AB95-04	M999012	YW12188552	74.00	75.50	1.50	-0.5	0.001	0.001	0.016	Dolomitic Sandstone	Lithic sandstone; massive to laminated; occasional MRC/PY stringers; weak oxide stain
AB95-04	M999013	YW12188552	75.50	77.00	1.50	-0.5	0.001	0.001	0.040		
AB95-04	M999014	YW12188552	77.00	78.50	1.50	-0.5	0.001	0.001	0.045		
AB95-04	M999015	YW12188552	78.50	80.00	1.50	-0.5	0.000	0.001	0.020		
AB95-04	M999016	YW12188552	80.00	81.50	1.50	-0.5	0.001	0.001	0.028		
AB95-04	M999017	YW12188552	81.50	83.00	1.50	-0.5	0.001	0.003	0.084		
AB95-05	M999001	YW12188552	119.00	120.50	1.50	-0.5	0.002	0.000	0.007	Dolo Sandstone	fine grained
AB95-05	M999002	YW12188552	120.50	122.00	1.50	-0.5	0.001	0.002	0.043		
AB95-05	M999003	YW12188552	122.00	123.50	1.50	-0.5	0.001	0.001	0.010		
AB95-05	M999004	YW12188552	123.50	125.00	1.50	-0.5	0.001	0.001	0.010		
AB95-05	M999005	YW12188552	125.00	126.00	1.00	-0.5	0.001	0.002	0.011		
AB95-05	M999006	YW12188552	126.00	127.50	1.50	-0.5	0.001	0.002	0.011		

AB95-06	M999351	YW12179287	97.00	98.50	1.50	-0.5	0.000	0.002	0.041	Rubble Zone	Rubble zone (fault?); clay & fine sand particles with intervals of lithified sandstone
AB95-06	M999352	YW12179287	98.50	100.00	1.50	**1.3**	0.001	0.007	0.098		
AB95-06	M999353	YW12179287	100.00	101.50	1.50	**5.9**	0.001	0.004	**2.160**		
AB95-06	M999354	YW12179287	101.50	102.30	0.80	**15.1**	0.002	0.018	**9.440**	Semi-Sulphide Rock	Dark grey to reddish brown semi-sulphide and sulphide rock; MRC/PY with SPH; oxide staining of variable intensity; mainly rubble with coherent intervals up to 40cm
AB95-06	M999355	YW12179287	102.30	103.30	1.00	**5.5**	0.001	0.029	**1.650**		
AB95-06	M999356	YW12179287	103.30	104.30	1.00	**23.8**	0.002	0.025	**13.900**		
AB95-06	M999357	YW12179287	104.30	105.50	1.20	**55.1**	0.003	0.029	**7.830**		
AB95-06	M999358	YW12179287	105.50	106.60	1.10	**58.5**	0.003	0.035	**12.450**		
AB95-06	M999359	YW12179287	106.60	107.50	0.90	**1.4**	0.000	0.007	**0.158**	Sandstone	Quartz and lithic rich sandstone; beige - grey with orange - brown oxide stain
AB95-06	M999361	YW12179287	107.50	108.60	1.10	**1.2**	0.002	0.006	0.099		
AB95-06	M999362	YW12179287	108.60	109.60	1.00	**3.2**	0.001	0.010	**0.518**	Semi-Sulphide Rock	Dark grey to reddish brown semi-sulphide and sulphide rock; MRC/PY with SPH; oxide staining of variable intensity; mainly rubble with coherent intervals up to 40cm
AB95-06	M999363	YW12179287	109.60	110.70	1.10	**13.0**	0.001	0.005	**4.260**		
AB95-06	M999364	YW12179287	110.70	111.70	1.00	**75.6**	0.008	0.013	**18.950**		
AB95-06	M999365	YW12179287	111.70	112.70	1.00	**52.4**	0.004	0.013	**14.850**		
AB95-06	M999366	YW12179287	112.70	113.70	1.00	**5.9**	0.001	0.013	**0.989**		
AB95-06	M999367	YW12179287	113.70	114.70	1.00	**3.1**	0.001	0.010	**0.282**		
AB95-06	M999368	YW12179287	114.70	115.70	1.00	**7.0**	0.001	0.020	**1.260**		
AB95-06	M999369	YW12179287	115.70	116.80	1.10	**9.2**	0.002	0.021	**0.974**		
AB95-06	M999371	YW12179287	116.80	117.80	1.00	**13.9**	0.002	0.016	**4.440**		
AB95-06	M999372	YW12179287	117.80	118.50	0.70	**48.1**	0.002	0.020	**10.800**		
AB95-06	M999373	YW12179287	118.50	119.10	0.60	**66.0**	0.003	0.017	**14.850**		
AB95-06	M999374	YW12179287	119.10	120.20	1.10	**28.4**	0.002	0.028	**4.660**		
AB95-06	M999375	YW12179287	120.20	121.20	1.00	**9.2**	0.002	0.010	**0.921**	Sandstone	Quartz and lithic rich sandstone; beige - grey with orange - brown oxide stain
AB95-06	M999376	YW12179287	121.20	122.20	1.00	-0.5	0.001	0.002	0.091		
AB95-06	M999377	YW12179287	122.20	123.20	1.00	0.5	0.001	0.002	0.065		
AB95-06	M999378	YW12179287	123.20	124.30	1.10	0.6	0.001	0.002	0.093		
AB95-06	M999379	YW12179287	124.30	125.30	1.00	0.5	0.001	0.003	0.062		
AB95-06	M999381	YW12179287	125.30	126.30	1.00	-0.5	0.001	0.002	0.062		
AB95-06	M999382	YW12179287	126.30	127.30	1.00	-0.5	0.001	0.004	0.055		
AB95-06	M999383	YW12179287	127.30	128.30	1.00	**4.8**	0.001	0.003	0.081		
AB95-06	M999384	YW12179287	128.30	129.30	1.00	**52.6**	0.002	0.026	**6.750**	Semi-Sulphide Rock	Dark grey to reddish brown semi-sulphide and sulphide rock; MRC/PY with SPH; oxide staining of variable intensity
AB95-06	M999385	YW12179287	129.30	130.00	0.70	**136.0**	0.003	0.032	**14.750**		
AB95-06	M999386	YW12179287	130.00	131.00	1.00	**26.8**	0.002	0.033	**4.860**		
AB95-06	M999387	YW12179287	131.00	132.20	1.20	**25.1**	0.001	0.026	**3.140**		
AB95-06	M999388	YW12179287	132.20	133.30	1.10	**3.5**	0.001	0.006	**0.470**	Dolomicrite	Beige - light grey bedded dolomicrite; rubble zone from 150-156
AB95-06	M999389	YW12179287	133.30	134.50	1.20	**3.3**	0.001	0.004	**0.359**		
AB95-07	M999391	YW12179287	114.00	115.50	1.50	**1.1**	0.001	0.005	**0.148**	Laminated Dolomicrite	Variably oxidized, highly broken and weathered interbedded sandy dolostone dolomicrite and sandstone. Bituminous intervals. Trace sulphides.
AB95-07	M999392	YW12179287	115.50	117.00	1.50	**1.8**	0.005	0.020	**0.631**		
AB95-07	M999393	YW12179287	117.00	118.00	1.00	0.6	0.001	0.002	**0.119**		
AB95-07	M999394	YW12179287	118.00	119.50	1.50	**2.4**	0.003	0.010	**0.282**		
AB95-07	M999395	YW12179287	119.50	121.00	1.50	**5.3**	0.004	0.015	**0.593**		
AB95-07	M999396	YW12179287	121.00	122.50	1.50	**1.0**	0.001	0.003	**0.159**		
AB95-07	M999397	YW12179287	122.50	124.00	1.50	-0.5	0.000	0.002	0.032		
AB95-07	M999398	YW12179287	124.00	125.40	1.40	0.7	0.000	0.003	**0.151**		
AB95-07	M999399	YW12179287	125.40	126.80	1.40	**6.6**	0.001	0.023	**0.556**	Sulphidic Sandstone	Dark grey, highly broken vuggy sandstone. Abundant marcasite.
AB95-07	M999401	YW12179287	126.80	128.00	1.20	**5.3**	0.001	0.007	**0.715**	Sandstone	Beige-rusty brown, well sorted, fine to medium grained sandstone. Oxide staining. Trace sulphides.
AB95-07	M999402	YW12179287	128.00	129.50	1.50	**1.4**	0.001	0.005	**0.209**		
AB95-07	M999403	YW12179287	129.50	131.00	1.50	0.5	0.000	0.002	**0.108**		
AB95-07	M999404	YW12179287	131.00	132.00	1.00	**1.4**	0.000	0.003	**0.122**		
AB95-07	M999405	YW12179287	132.00	133.00	1.00	**27.5**	0.002	0.023	**8.620**		
AB95-07	M999406	YW12179287	133.00	133.90	0.90	**39.4**	0.002	0.206	**1.415**		
AB95-07	M999407	YW12179287	133.90	135.00	1.10	**123.0**	0.008	0.024	**13.150**	Massive Sulphide	Grey to red-brown crumbled and broken sulphide rock. Marcasite with lesser sphalerite.
AB95-07	M999408	YW12179287	135.00	135.85	0.85	**15.7**	0.002	0.022	**2.400**		
AB95-07	M999409	YW12179287	135.85	137.00	1.15	**118.0**	0.003	0.024	**22.500**		
AB95-07	M999411	YW12179287	137.00	138.00	1.00	-0.5	0.001	0.003	0.075	Dolomicrite	Light grey-beige laminated and bioturbated dolomicrite with sandy interbeds.
AB95-07	M999412	YW12179287	138.00	139.00	1.00	-0.5	0.001	0.003	0.044		
AB95-08	M999007	YW12188552	107.00	108.00	1.00	-0.5	0.001	0.001	0.004	Laminated Dolomicrite	Bioturbated interbeds. Greywacke interbed at 18-21m. Core is blocky.
AB95-08	M999008	YW12188552	108.00	109.00	1.00	-0.5	0.001	0.003	0.010	Dolostone Breccia	light, pink pyritic.
AB95-08	M999009	YW12188552	109.00	110.00	1.00	-0.5	0.001	0.001	0.005	Bioturbated Dolomicrite	bioturbated interbeds. Muddy horizons are broken down. Minor vuggy sections in bioturbated beds along with minor algal beds.
AB95-08	M999010	YW12188552	110.00	111.00	1.00	-0.5	0.001	0.001	0.003		
AB95-08	M999011	YW12188552	111.00	112.00	1.00	-0.5	0.000	0.001	0.003		

AB95-10	M999413	YW12179287	128.00	129.50	1.50	**6.0**	0.001	0.007	**1.845**	Laminated Dolomicrite	interbedded with bioturbated dolostone. Muddy and sandy horizons causing the core to be blocky and broken down.
AB95-10	M999414	YW12179287	129.50	131.00	1.50	**1.2**	0.002	0.004	**0.370**		
AB95-10	M999415	YW12179287	131.00	132.00	1.00	**1.0**	0.001	0.002	**0.148**		
AB95-10	M999416	YW12179287	132.00	133.00	1.00	**4.6**	0.013	0.010	**2.600**	Massive Sulphide	medium grained.
AB95-10	M999417	YW12179287	133.00	134.50	1.50	**5.5**	0.001	0.003	**0.348**	Sulphidic Sandstone	broken down, fine grained dolomitic.
AB95-10	M999418	YW12179287	134.50	136.00	1.50	**3.8**	0.001	0.004	**0.460**		
AB95-10	M999419	YW12179287	136.00	137.00	1.00	**2.9**	0.001	0.001	**0.159**		
AB95-10	M999421	YW12179287	137.00	138.50	1.50	**5.7**	0.002	0.004	**0.450**		
AB95-10	M999422	YW12179287	138.50	140.00	1.50	**3.9**	0.001	0.002	**0.192**		
AB95-10	M999423	YW12179287	140.00	141.50	1.50	**5.3**	0.001	0.003	**0.514**		
AB95-10	M999424	YW12179287	141.50	143.00	1.50	**57.1**	0.007	0.038	**2.740**		
AB95-10	M999425	YW12179287	143.00	144.00	1.00	**58.9**	0.009	0.022	**2.080**		
AB95-10	M999426	YW12179287	144.00	146.00	2.00	**16.7**	0.005	0.049	**1.785**	Dolomicrite	blocky and broken core
AB95-10	M999427	YW12179287	146.00	147.50	1.50	**5.0**	0.002	0.030	**0.954**		
AB95-10	M999428	YW12179287	147.50	149.00	1.50	**2.6**	0.002	0.010	**0.935**		
AB95-11	M999429	YW12179287	189.50	191.00	1.50	-0.5	0.000	0.001	0.015	Dolo Sandstone	fine grained, interbedded, with muddy horizons and minor bioturbated Dolostone. Sandstone layers are broken down.
AB95-11	M999431	YW12179287	191.00	192.00	1.00	**11.3**	0.003	0.006	**0.768**	Sulphidic Sandstone	Dolomitic
AB95-11	M999432	YW12179287	192.00	193.00	1.00	**84.0**	0.004	0.013	**2.270**		
AB95-11	M999433	YW12179287	193.00	194.00	1.00	**9.3**	0.002	0.008	**0.402**	Massive Sulphide	Massive, medium grained Marcasite.
AB95-11	M999434	YW12179287	194.00	195.00	1.00	**9.4**	0.002	0.017	**0.180**		
AB95-11	M999435	YW12179287	195.00	196.00	1.00	**6.6**	0.002	0.017	0.092		
AB95-11	M999436	YW12179287	196.00	197.50	1.50	**12.8**	0.003	0.023	**0.492**		
AB95-11	M999437	YW12179287	197.50	198.50	1.00	**1.6**	0.001	0.006	0.068	Dolo Sandstone	Fine grained. Massive, oxidized.
AB95-11	M999438	YW12179287	198.50	200.00	1.50	**1.4**	0.001	0.008	0.084		
AB95-11	M999439	YW12179287	200.00	201.50	1.50	0.8	0.001	0.008	0.047		
AB95-11	M999441	YW12179287	201.50	203.00	1.50	**1.6**	0.002	0.016	0.098		
AB95-11	M999442	YW12179287	203.00	204.00	1.00	**6.1**	0.001	0.008	**0.280**		
AB95-11	M999443	YW12179287	204.00	205.00	1.00	**155.0**	0.011	0.065	**1.565**	Sulphidic Sandstone	Dolomitic
AB95-11	M999444	YW12179287	205.00	206.00	1.00	**82.0**	0.005	0.041	**6.160**		
AB95-11	M999445	YW12179287	206.00	207.00	1.00	**16.1**	0.002	0.010	**0.378**	Dolomicrite	interbedded with bioturbated dolostone and lesser muddy interbeds. Muddy horizons cause the core to be blocky.
AB95-11	M999446	YW12179287	207.00	208.00	1.00	**8.7**	0.002	0.006	**0.566**		
AB95-12	M999021	YW12188552	89.00	90.50	1.50	-0.5	0.001	0.001	0.038	Dolo Sandstone	fine grained. Vuggy. Broken down to blocky in places. Vugs are filled with late medium grained euhedral dolomite.
AB95-12	M999022	YW12188552	90.50	92.00	1.50	-0.5	0.001	0.001	0.028		
AB95-12	M999023	YW12188552	92.00	93.50	1.50	-0.5	0.001	0.001	0.032		
AB95-12	M999024	YW12188552	93.50	94.50	1.00	-0.5	0.001	0.001	0.020		
AB95-13	M999018	YW12188552	196.50	197.20	0.70	-0.5	0.001	0.001	0.006	Sandstone	Beige quartz rich sandstone. Increasing lithic content down interval.
AB95-13	M999019	YW12188552	197.20	198.50	1.30	-0.5	0.001	0.002	0.019	Sandstone	Lithic sandstone. Minor marcasite.
AB95-13	M999020	YW12188552	198.50	199.20	0.70	-0.5	0.002	0.004	0.009		
ST97-07	M999051	YW12188552	32.00	33.50	1.50	0.5	**0.168**	0.001	0.002	Laminated Dolomicrite	finely laminated beige with local muddy interbeds (broken down) and bioturbated beds. Green smectite at 5.6m.
ST97-07	M999052	YW12188552	33.50	35.00	1.50	**1.8**	**1.655**	0.001	0.002	Bioturbated Dolomicrite	beige with moderate patchy malachite staining with medium grained euhedral clotty pyrite.
ST97-07	M999053	YW12188552	35.00	36.50	1.50	-0.5	0.038	0.001	0.001		
ST97-07	M999054	YW12188552	36.50	38.00	1.50	-0.5	**0.121**	0.001	0.002		
ST97-07	M999055	YW12188552	38.00	39.50	1.50	-0.5	**0.160**	0.001	0.001		
ST97-07	M999056	YW12188552	39.50	41.00	1.50	-0.5	0.074	0.001	0.001	Bioturbated Dolomicrite	local crackle breccia. Chalcopyrite and pyrite infilling large flooded spaces in the breccia.
ST97-07	M999057	YW12188552	41.00	42.00	1.00	-0.5	**0.139**	0.001	0.001		
ST97-07	M999058	YW12188552	42.00	43.00	1.00	**3.2**	**0.300**	0.003	0.001		
ST97-07	M999059	YW12188552	43.00	44.00	1.00	**28.9**	**0.248**	0.016	0.001		
ST97-07	M999060	YW12188552	44.00	45.00	1.00	**15.8**	0.085	0.007	0.001		
ST97-07	M999061	YW12188552	45.00	46.00	1.00	**2.4**	**0.132**	0.002	0.001		
ST97-07	M999062	YW12188552	46.00	47.00	1.00	**2.0**	0.068	0.004	0.001		
ST97-07	M999063	YW12188552	47.00	48.00	1.00	**3.3**	**0.249**	0.003	0.001	Bioturbated Dolomicrite	Minor breccia horizons with sparse malachite, chalcopyrite, and pyrite.
ST97-07	M999064	YW12188552	48.00	49.00	1.00	**7.3**	**0.892**	0.016	0.001		
ST97-07	M999065	YW12188552	49.00	50.00	1.00	**2.2**	**1.260**	0.005	0.001		
ST97-07	M999066	YW12188552	50.00	51.00	1.00	-0.5	0.094	0.001	0.001		
ST97-07	M999067	YW12188552	51.00	52.00	1.00	-0.5	0.069	0.000	0.001		
ST97-07	M999068	YW12188552	52.00	53.00	1.00	**1.4**	**1.470**	0.001	0.001		
ST97-07	M999069	YW12188552	53.00	54.00	1.00	**1.4**	**0.481**	0.001	0.001		
ST97-07	M999070	YW12188552	54.00	55.00	1.00	**4.1**	**0.567**	0.001	0.001		
ST97-07	M999071	YW12188552	55.00	56.00	1.00	-0.5	**0.423**	0.001	0.001		
ST97-07	M999072	YW12188552	56.00	57.00	1.00	-0.5	**0.636**	0.001	0.000		
ST97-07	M999073	YW12188552	57.00	58.00	1.00	-0.5	**0.203**	0.000	0.000		
ST97-07	M999074	YW12188552	58.00	59.00	1.00	**1.1**	**0.492**	0.002	0.000		

ST97-07	M999075	YW12188552	59.00	60.00	1.00	0.5	**0.242**	0.001	0.001	Polymictic Breccia	2-5% chalcopyrite and pyrite in cement. Clast supported breccia. Clasts are 0.5-2cm and subangular. Sulphides occur as fine grained clots. Clasts range in composition from dolomicrite to milky quartz.
ST97-07	M999076	YW12188552	60.00	61.00	1.00	**3.3**	**0.110**	0.004	0.001		
ST97-07	M999077	YW12188552	61.00	62.00	1.00	**2.1**	**0.137**	0.002	0.001		
ST97-07	M999078	YW12188552	62.00	63.00	1.00	**2.2**	0.030	0.002	0.000	Dolomicrite	2-5% chalcopyrite and pyrite in cement. Clast supported breccia. Clasts are 0.5-2cm and subangular. Sulphides occur as fine grained clots. Clasts range in composition from dolomicrite to milky quartz.
ST97-07	M999079	YW12188552	63.00	64.00	1.00	**2.9**	0.083	0.004	0.000		
ST97-07	M999081	YW12188552	64.00	65.00	1.00	0.9	0.033	0.002	0.000		
ST97-07	M999082	YW12188552	65.00	66.00	1.00	**3.4**	0.064	0.006	0.000		
ST97-07	M999083	YW12188552	66.00	67.00	1.00	**2.4**	0.014	0.003	0.001		
ST97-07	M999084	YW12188552	67.00	68.00	1.00	-0.5	0.014	0.002	0.001		
ST97-07	M999085	YW12188552	68.00	69.00	1.00	-0.5	0.083	0.001	0.000		
ST97-07	M999086	YW12188552	69.00	70.00	1.00	0.7	**0.114**	0.002	0.001		
ST97-07	M999087	YW12188552	70.00	71.00	1.00	**1.1**	**0.110**	0.003	0.000		
ST97-07	M999088	YW12188552	71.00	72.50	1.50	0.8	**0.190**	0.001	0.001		
ST97-07	M999089	YW12188552	72.50	74.00	1.50	-0.5	0.072	0.001	0.000		
ST97-07	M999091	YW12188552	74.00	75.50	1.50	-0.5	0.013	0.001	0.006		
ST97-07	M999092	YW12188552	75.50	77.00	1.50	-0.5	0.005	0.000	0.001		
ST97-07	M999093	YW12188552	77.00	78.50	1.50	-0.5	0.015	0.000	0.000		
ST97-07	M999094	YW12188552	78.50	80.00	1.50	-0.5	0.008	0.000	0.000		
ST97-07	M999095	YW12188552	80.00	81.50	1.50	-0.5	0.068	0.000	0.000		
ST97-07	M999096	YW12188552	81.50	83.00	1.50	-0.5	0.026	0.000	0.000		
ST97-07	M999097	YW12188552	83.00	84.50	1.50	-0.5	0.014	0.000	0.000		
ST97-07	M999098	YW12188552	84.50	86.00	1.50	-0.5	**0.291**	0.002	0.000		
ST97-07	M999099	YW12188552	86.00	87.50	1.50	-0.5	0.057	0.001	0.001		
ST97-07	M999451	YW12188552	87.50	89.00	1.50	-0.5	0.088	0.002	0.016		
ST97-07	M999452	YW12188552	89.00	90.50	1.50	-0.5	0.024	0.001	0.002		
ST97-07	M999453	YW12188552	90.50	92.00	1.50	0.9	**0.284**	0.001	0.001	Bioturbated Dolomicrite	Local Breccia horizons. Vugs are infilled by dark green to black Chlorite. Minor disseminated Malachite staining associated with fractures and vugs.
ST97-07	M999454	YW12188552	92.00	93.00	1.00	0.6	**0.161**	0.001	0.002		
ST97-07	M999455	YW12188552	93.00	94.50	1.50	-0.5	0.013	0.000	0.001	Dolomicrite	Local stylolitic horizons and Crackle Breccia.
ST97-07	M999456	YW12188552	94.50	96.00	1.50	**1.6**	**0.581**	0.001	0.001		
ST97-07	M999457	YW12188552	96.00	97.00	1.00	0.9	0.099	0.001	0.001		
ST97-07	M999458	YW12188552	97.00	98.00	1.00	<0.5	**0.127**	0.003	0.001		
ST97-07	M999459	YW12188552	98.00	99.00	1.00	**1.0**	0.034	0.001	0.001		
ST97-07	M999461	YW12188552	99.00	100.50	1.50	-0.5	0.018	0.000	0.001	Cataclastic Fault Zone	Clast supported cemented Breccia. Cement is Dolomitic. Clasts are subangular - subrounded. Clasts themselves are Crackle Brecciated.
ST97-07	M999462	YW12188552	100.50	102.00	1.50	0.6	0.088	0.001	0.001		
ST97-07	M999463	YW12188552	102.00	103.50	1.50	0.6	0.024	0.001	0.001	Bioturbated Dolomicrite	Beige
ST97-07	M999464	YW12188552	103.50	105.00	1.50	**5.8**	0.031	0.001	0.001		
ST97-07	M999465	YW12188552	105.00	106.50	1.50	**1.1**	0.067	0.001	0.000	Dolomicrite	Weakly brecciated. Fine grained, dusty Pyrite and Chalcopyrite along with Dolomite as cement. Dark Chlorite in cement as well.
ST97-07	M999466	YW12188552	106.50	108.00	1.50	**60.5**	**1.310**	0.003	0.000		
ST97-07	M999467	YW12188552	108.00	109.50	1.50	**25.7**	**0.396**	0.002	0.001		
ST97-07	M999654	YW12175936	109.50	111.00	1.50	**3.9**	0.018	0.000	0.000	Laminated Dolomicrite	Beige, finely laminated. Interbedded with bioturbated / weakly brecciated zones. Dark Chlorite and dusty Pyrite in matrix.
ST97-07	M999655	YW12175936	111.00	112.50	1.50	**1.2**	**0.157**	0.000	0.000		
ST97-07	M999656	YW12175936	112.50	114.00	1.50	-0.5	0.085	0.000	0.000		
ST97-07	M999657	YW12175936	114.00	115.50	1.50	-0.5	0.041	0.000	0.000		
ST97-07	M999658	YW12175936	115.50	117.00	1.50	-0.5	0.006	0.000	0.000		
ST97-07	M999659	YW12175936	117.00	118.50	1.50	-0.5	0.058	0.001	0.000		
ST97-07	M999661	YW12175936	118.50	120.00	1.50	-0.5	0.019	0.001	0.001		
ST97-07	M999662	YW12175936	120.00	121.50	1.50	**2.0**	**0.162**	0.001	0.000		
ST97-07	M999663	YW12175936	121.50	123.00	1.50	**1.8**	**0.151**	0.001	0.000		
ST97-07	M999664	YW12175936	123.00	124.50	1.50	0.9	**0.107**	0.001	0.000		
ST97-07	M999665	YW12175936	124.50	126.00	1.50	0.6	0.083	0.000	0.000		
ST97-07	M999666	YW12175936	126.00	127.50	1.50	-0.5	**0.104**	0.000	0.000	Dolomicrite	Upper Crackle Breccia contact, matrix is stained with Malachite. Dolomicrite is weakly brecciated and beige.
ST97-08	M999468	YW12184046	0.00	1.20	1.20	**7.9**	**4.550**	0.005	0.040	Laminated Dolomicrite	Finely laminated with minor breccia interbeds. Muddier horizons are broken down. Core is blocky. Minor Calcite in matrix of breccias.
ST97-08	M999469	YW12184046	1.20	2.20	1.00	**8.2**	**4.850**	0.005	0.040		
ST97-08	M999471	YW12184046	2.20	3.50	1.30	-0.5	**0.146**	0.001	0.009		
ST97-08	M999472	YW12184046	3.50	5.00	1.50	**6.9**	**3.260**	0.003	0.014		
ST97-08	M999473	YW12184046	5.00	6.50	1.50	**19.3**	**7.870**	0.014	0.014		
ST97-08	M999474	YW12184046	6.50	8.00	1.50	-0.5	**0.136**	0.001	0.004		
ST97-08	M999475	YW12184046	8.00	9.00	1.00	-0.5	**0.203**	0.002	0.004		
ST97-08	M999476	YW12184046	9.00	10.00	1.00	**1.7**	**1.300**	0.005	0.005		
ST97-08	M999477	YW12184046	10.00	11.00	1.00	0.5	**0.812**	0.000	0.003		
ST97-08	M999478	YW12184046	11.00	12.00	1.00	-0.5	**0.239**	0.001	0.003		
ST97-08	M999479	YW12184046	12.00	13.00	1.00	**1.5**	**0.784**	0.001	0.003		
ST97-08	M999481	YW12184046	13.00	14.00	1.00	**4.1**	**0.904**	0.003	0.007		
ST97-08	M999482	YW12184046	14.00	15.00	1.00	**2.7**	**0.690**	0.006	0.019		

ST97-08	M999483	YW12184046	15.00	16.30	1.30	**10.3**	**0.644**	0.020	0.014		
ST97-08	M999484	YW12184046	16.30	17.30	1.00	**9.0**	**3.65**	0.030	0.010		
ST97-08	M999485	YW12184046	17.30	18.70	1.40	**5.8**	**1.21**	0.015	0.006		
ST97-08	M999486	YW12184046	18.70	19.50	0.80	**1.0**	0.044	0.005	0.003		
ST97-08	M999487	YW12184046	19.50	21.00	1.50	0.8	0.056	0.003	0.005		
ST97-08	M999488	YW12184046	21.00	22.50	1.50	**1.9**	**0.257**	0.005	0.008		
ST97-08	M999489	YW12184046	22.50	24.00	1.50	**2.4**	**0.410**	0.003	0.004		
ST97-08	M999491	YW12184046	24.00	25.20	1.20	**2.1**	**0.499**	0.011	0.011		
ST97-08	M999492	YW12184046	25.20	26.00	0.80	**9.7**	**4.12**	0.017	0.025		
ST97-08	M999493	YW12184046	26.00	26.80	0.80	**2.7**	**1.945**	0.003	0.008		
ST97-08	M999494	YW12184046	26.80	27.80	1.00	**3.3**	**1.815**	0.002	0.006		
ST97-08	M999495	YW12184046	27.80	28.60	0.80	**19.5**	**7.51**	0.006	0.022		
ST97-08	M999496	YW12184046	28.60	29.10	0.50	**37.3**	**26.5**	0.017	0.071		
ST97-08	M999497	YW12184046	29.10	30.10	1.00	**8.9**	**6.94**	0.003	0.008		
ST97-08	M999498	YW12184046	30.10	30.90	0.80	**1.4**	**0.858**	0.001	0.003		
ST97-08	M999499	YW12184046	30.90	31.80	0.90	<0.5	**0.248**	0.001	0.002		
ST97-08	M999501	YW12184046	31.80	32.50	0.70	<0.5	**0.197**	0.001	0.001		
ST97-08	M999502	YW12184046	32.50	33.50	1.00	**2.0**	**1.395**	0.004	0.003		
ST97-08	M999503	YW12184046	33.50	35.00	1.50	**2.9**	**2.5**	0.002	0.002		
ST97-08	M999504	YW12184046	35.00	36.50	1.50	**3.8**	**3.31**	0.001	0.007		
ST97-08	M999505	YW12184046	36.50	37.20	0.70	**1.1**	**1.155**	0.001	0.007		
ST97-08	M999506	YW12184046	37.20	38.10	0.90	**6.8**	**9.09**	0.023	0.036		
ST97-08	M999507	YW12184046	38.10	38.70	0.60	**1.2**	**0.599**	0.004	0.003		
ST97-08	M999508	YW12184046	38.70	40.40	1.70	**3.1**	**2.38**	0.007	0.006		
ST97-08	M999509	YW12184046	40.40	41.40	1.00	0.7	**1.87**	0.003	0.061		
ST97-08	M999511	YW12184046	41.40	42.80	1.40	0.6	**0.908**	0.004	0.049		
ST97-08	M999512	YW12184046	42.80	43.80	1.00	**1.2**	**4.26**	0.004	0.043		
ST97-08	M999513	YW12184046	43.80	45.00	1.20	**1.7**	**8.43**	0.010	0.038		
ST97-08	M999514	YW12184046	45.00	46.00	1.00	0.5	**0.463**	0.002	0.008		
ST97-08	M999515	YW12184046	46.00	47.00	1.00	**1.1**	**0.890**	0.004	0.009		
ST97-08	M999516	YW12184046	47.00	48.50	1.50	0.6	**0.387**	0.003	0.004		
ST97-08	M999517	YW12184046	48.50	50.00	1.50	**3.9**	**1.025**	0.022	0.003		
ST97-08	M999518	YW12184046	50.00	51.00	1.00	**1.6**	**0.709**	0.009	0.005		
ST97-08	M999519	YW12184046	51.00	52.00	1.00	**6.8**	**0.863**	0.031	0.024		
ST97-08	M999521	YW12184046	52.00	53.00	1.00	**5.3**	**19.950**	0.026	0.015		
ST97-08	M999522	YW12184046	53.00	54.00	1.00	**3.2**	**17.150**	0.018	0.020		
ST97-08	M999523	YW12184046	54.00	55.00	1.00	**2.1**	**1.830**	0.006	0.007		
ST97-08	M999524	YW12184046	55.00	56.50	1.50	**1.1**	**0.662**	0.003	0.004		
ST97-08	M999525	YW12184046	56.50	58.00	1.50	**2.7**	**2.810**	0.017	0.005		
ST97-08	M999526	YW12184046	58.00	59.50	1.50	-0.5	**0.107**	0.001	0.003		
ST97-08	M999527	YW12184046	59.50	60.50	1.00	-0.5	**0.164**	0.001	0.001		
ST97-08	M999528	YW12184046	60.50	62.00	1.50	-0.5	**0.277**	0.001	0.000		
ST97-08	M999529	YW12184046	62.00	63.50	1.50	-0.5	**0.213**	0.001	0.001		
ST97-08	M999531	YW12184046	63.50	65.00	1.50	-0.5	**0.235**	0.001	0.002		
ST97-08	M999532	YW12184046	65.00	66.00	1.00	-0.5	**0.171**	0.001	0.002	Sulphidic Dolomicrite Breccia	Matrix is partially to completely comprised of Chalcopyrite and Pyrite. Chalcopyrite is coring Pyrite clots.
ST97-08	M999533	YW12184046	66.00	67.50	1.50	**1.4**	**0.636**	0.003	0.002		
ST97-08	M999534	YW12184046	67.50	69.00	1.50	-0.5	**0.127**	0.001	0.002	Brecciated Dolomicrite	Clast supported, Dolomite matrix. Hematite along fractures locally.
ST97-08	M999535	YW12184046	69.00	70.50	1.50	-0.5	0.030	0.001	0.002		
ST97-08	M999536	YW12184046	70.50	72.00	1.50	0.8	**0.221**	0.003	0.003		
ST97-08	M999537	YW12184046	72.00	73.00	1.00	**8.5**	**1.715**	0.018	0.010		
ST97-08	M999538	YW12184046	73.00	74.00	1.00	**2.6**	**0.411**	0.004	0.005		
ST97-08	M999539	YW12184046	74.00	76.00	2.00	**3.6**	**1.620**	0.005	0.010		
ST97-08	M999541	YW12184046	76.00	78.00	2.00	**10.0**	**4.780**	0.005	0.007		
ST97-08	M999542	YW12184046	78.00	79.40	1.40	**4.2**	**0.884**	0.003	0.003	Brecciated Dolomicrite	Matrix supported, Dolomite matrix. Hematite along fractures locally. Minor Malachite in matrix.
ST97-08	M999543	YW12184046	79.40	80.50	1.10	**4.7**	**1.035**	0.004	0.002		
ST97-08	M999544	YW12184046	80.50	81.50	1.00	**6.5**	**3.400**	0.005	0.002	Brecciated Dolomicrite	Clast supported, dolomite matrix. Hematite along fractures locally.
ST97-08	M999545	YW12184046	81.50	82.50	1.00	**1.4**	**0.935**	0.001	0.001		
ST97-08	M999546	YW12184046	82.50	84.00	1.50	**1.0**	**0.129**	0.001	0.001	Brecciated Dolomicrite	Extremely blocky, strongly oxidized and broken down.
ST97-08	M999547	YW12184046	84.00	85.50	1.50	-0.5	**0.116**	0.001	0.002		
ST97-08	M999548	YW12184046	85.50	87.00	1.50	-0.5	0.061	0.001	0.001		

ST97-08	M999549	YW12184046	87.00	88.50	1.50	-0.5	0.065	0.001	0.002	Brecciated Dolomicrite	Clast supported, Dolomite matrix. Hematite along fractures locally.
ST97-08	M999551	YW12184046	88.50	90.00	1.50	-0.5	**0.105**	0.002	0.012		
ST97-08	M999552	YW12184046	90.00	91.50	1.50	-0.5	0.056	0.001	0.010	Brecciated Dolomicrite	Extremely blocky, strongly oxidized. Minor Malachite in cement locally. Broken down.
ST97-08	M999553	YW12184046	91.50	93.00	1.50	-0.5	**0.188**	0.003	0.006		
ST97-08	M999554	YW12184046	93.00	94.50	1.50	-0.5	**0.109**	0.001	0.001		
ST97-08	M999555	YW12184046	94.50	96.00	1.50	**5.5**	**1.745**	0.003	0.004		
ST97-08	M999556	YW12184046	96.00	97.50	1.50	**6.1**	**1.100**	0.001	0.001		
ST97-08	M999557	YW12184046	97.50	99.00	1.50	**1.1**	**0.195**	0.001	0.002		
ST97-08	M999558	YW12184046	99.00	100.50	1.50	**4.6**	**0.777**	0.002	0.001		
ST97-08	M999559	YW12184046	100.50	102.00	1.50	**13.4**	**0.856**	0.003	0.001		
ST97-08	M999561	YW12184046	102.00	103.50	1.50	0.7	0.088	0.001	0.002		
ST97-08	M999562	YW12184046	103.50	105.00	1.50	-0.5	0.022	0.001	0.001	Brecciated Dolomicrite	Calcite infilling fractures
ST97-08	M999563	YW12184046	105.00	106.50	1.50	0.5	0.035	0.001	0.001		
ST97-08	M999564	YW12184046	106.50	108.00	1.50	**2.2**	**0.313**	0.001	0.002		
ST97-08	M999565	YW12184046	108.00	109.50	1.50	**1.5**	**0.183**	0.002	0.003		
ST97-08	M999566	YW12184046	109.50	111.00	1.50	**4.5**	**0.942**	0.002	0.003		
ST97-08	M999567	YW12184046	111.00	112.50	1.50	-0.5	0.029	0.001	0.001		
ST97-08	M999568	YW12184046	112.50	114.00	1.50	-0.5	0.041	0.001	0.001		
ST97-08	M999569	YW12184046	114.00	115.00	1.00	-0.5	0.017	0.001	0.001		
ST97-08	M999571	YW12184046	115.00	116.00	1.00	-0.5	0.016	0.001	0.002		
ST97-09	M999619	YW12175936	53.00	54.50	1.50	0.5	**0.109**	0.003	0.001	Brecciated Dolomicrite	Med grey, variably clast to matrix supported, Hematite along fractures locally, minor rubbly sections.
ST97-09	M999621	YW12175936	54.50	56.00	1.50	-0.5	0.003	0.001	0.001	Brecciated Dolomicrite	Clast supported, strongly oxidized, Hematite along fractures and throughout matrix.
ST97-09	M999622	YW12175936	56.00	57.50	1.50	-0.5	0.045	0.001	0.001		
ST97-09	M999623	YW12175936	57.50	59.00	1.50	0.8	0.055	0.002	0.001		
ST97-09	M999624	YW12175936	59.00	60.50	1.50	-0.5	0.047	0.001	0.000	Brecciated Dolomicrite	Beige , clast supported, localized minor matrix supported areas, blocky core
ST97-09	M999625	YW12175936	60.50	62.00	1.50	0.5	0.053	0.001	0.001		
ST97-09	M999626	YW12175936	62.00	63.50	1.50	**1.6**	**1.990**	0.005	0.002		
ST97-09	M999627	YW12175936	63.50	64.75	1.25	**1.2**	**3.580**	0.011	0.002		
ST97-09	M999628	YW12175936	64.75	65.70	0.95	**9.5**	**1.830**	0.027	0.011	Brecciated Dolomicrite	Med grey to beige in areas, mainly clast supported, matrix supported locally. Large rubblized sections. Trace hematite along fractures locally.
ST97-09	M999629	YW12175936	65.70	67.00	1.30	**2.6**	**1.975**	0.010	0.003		
ST97-09	M999631	YW12175936	67.00	68.10	1.10	**2.9**	**7.170**	0.004	0.003		
ST97-09	M999632	YW12175936	68.10	69.10	1.00	**1.6**	**8.780**	0.002	0.005		
ST97-09	M999633	YW12175936	69.10	70.00	0.90	0.5	**1.340**	0.002	0.012		
ST97-09	M999634	YW12175936	70.00	71.50	1.50	**1.0**	**3.380**	0.002	0.011	Dolomicrite	Beige, clast supported brecciated sections, Malachite along fractures locally, large rubblized sections throughout, vuggy and pitted areas, laminated locally.
ST97-09	M999635	YW12175936	71.50	73.00	1.50	0.8	**0.338**	0.001	0.010		
ST97-09	M999636	YW12175936	73.00	74.50	1.50	-0.5	**0.959**	0.005	0.010		
ST97-09	M999637	YW12175936	74.50	76.00	1.50	**3.3**	**1.130**	0.006	0.010		
ST97-09	M999638	YW12175936	76.00	77.50	1.50	-0.5	**0.409**	0.000	0.002		
ST97-09	M999639	YW12175936	77.50	79.00	1.50	-0.5	**0.440**	0.000	0.001		
ST97-09	M999641	YW12175936	79.00	80.50	1.50	-0.5	**3.060**	0.001	0.001		
ST97-09	M999642	YW12175936	80.50	82.00	1.50	-0.5	**1.935**	0.002	0.002		
ST97-09	M999643	YW12175936	82.00	83.50	1.50	-0.5	**0.802**	0.004	0.002		
ST97-09	M999644	YW12175936	83.50	85.00	1.50	**1.7**	**0.148**	0.003	0.002	Laminated Dolomicrite	Med grey. Localized, clast supported brecciated areas. Blocky core.
ST97-09	M999645	YW12175936	85.00	86.50	1.50	**3.8**	**0.850**	0.021	0.001		
ST97-09	M999646	YW12175936	86.50	88.00	1.50	**1.3**	**0.158**	0.006	0.002		
ST97-09	M999647	YW12175936	88.00	89.00	1.00	-0.5	0.062	0.005	0.002		
ST97-09	M999648	YW12175936	89.00	90.10	1.10	0.7	0.029	0.004	0.003	Laminated Dolomicrite	Med grey to heavily oxidized areas, mainly blocky core, brecciated locally. Hematitic rubble at 90.30m
ST97-09	M999649	YW12175936	90.10	92.00	1.90	**1.2**	0.085	0.002	0.003		
ST97-09	M999651	YW12175936	92.00	93.00	1.00	-0.5	0.023	0.001	0.001		
ST97-09	M999652	YW12175936	93.00	94.00	1.00	-0.5	0.016	0.001	0.001	Laminated Dolomicrite	Med grey, well intact core, trace fracture surface oxidation.
ST97-09	M999653	YW12175936	94.00	95.00	1.00	-0.5	0.008	0.000	0.001		
ST97-10	M999572	YW12184046	61.00	62.50	1.50	**1.4**	0.016	0.005	0.001	Brecciated Dolomicrite	Lt grey, blocky core, trace hematite along fractures at end.
ST97-10	M999573	YW12184046	62.50	64.00	1.50	**1.9**	0.023	0.017	0.002	Brecciated Dolomicrite	Lt grey, blocky core, increasing oxidation and fractures from 63.5-64.5m. 65.1m to 66m: Major brecciation and hematite, dark grey in color.
ST97-10	M999574	YW12184046	64.00	65.10	1.10	**3.6**	**0.101**	0.014	0.003		
ST97-10	M999575	YW12184046	65.10	66.60	1.50	**7.7**	**0.310**	0.088	0.001		
ST97-10	M999576	YW12184046	66.60	67.60	1.00	**4.7**	**0.170**	0.023	0.000		
ST97-10	M999577	YW12184046	67.60	69.00	1.40	**1.5**	0.054	0.009	0.000	Laminated Dolomicrite	Med grey, blocky core, rubbly sections. Finely laminated. Minor localized brecciation with hematite matrix.
ST97-10	M999578	YW12184046	69.00	70.50	1.50	-0.5	0.021	0.003	0.001		
ST97-10	M999579	YW12184046	70.50	72.00	1.50	**1.1**	0.019	0.006	0.001		
ST97-10	M999581	YW12184046	72.00	73.50	1.50	-0.5	0.008	0.001	0.001		

ST97-10	M999582	YW12184046	73.50	75.00	1.50	-0.5	0.010	0.001	0.001	Brecciated Dolomicrite	Med grey to beige, clast supported, blocky to rubblized sections, localized oxidation.
ST97-10	M999583	YW12184046	75.00	76.50	1.50	-0.5	0.032	0.001	0.002		
ST97-10	M999584	YW12184046	76.50	78.00	1.50	-0.5	0.083	0.001	0.002		
ST97-10	M999585	YW12184046	78.00	79.50	1.50	0.6	**0.176**	0.001	0.001		
ST97-10	M999586	YW12184046	79.50	81.00	1.50	0.9	**0.504**	0.002	0.002		
ST97-10	M999587	YW12184046	81.00	82.50	1.50	0.5	**0.340**	0.001	0.002		
ST97-10	M999588	YW12184046	82.50	84.00	1.50	-0.5	0.065	0.001	0.002	Brecciated Dolomicrite	Major oxidation throughout, locally hematitic. Heavily rubblized throughout. Clast supported.
ST97-10	M999589	YW12184046	84.00	85.50	1.50	-0.5	0.061	0.001	0.001		
ST97-10	M999591	YW12184046	85.50	87.00	1.50	-0.5	0.037	0.004	0.014		
ST97-10	M999592	YW12184046	87.00	88.50	1.50	-0.5	0.011	0.001	0.001	Brecciated Dolomicrite	Med grey, clast supported, blocky core, major hematite locally.
ST97-10	M999593	YW12184046	88.50	90.00	1.50	0.7	**0.183**	0.008	0.001		
ST97-10	M999594	YW12184046	90.00	91.50	1.50	0.7	**0.201**	0.002	0.002	Brecciated Dolomicrite	Extremely rubblized section, heavily oxidized throughout, Hematite rich areas locally. Clast supported. Localized intact sections show hematite along fractures and in matrix. Minor localized laminated dolomicrite sections, trace hematite in fractures.
ST97-10	M999595	YW12184046	91.50	93.00	1.50	**1.2**	**0.917**	0.003	0.002		
ST97-10	M999596	YW12184046	93.00	94.50	1.50	-0.5	**0.278**	0.002	0.001		
ST97-10	M999597	YW12184046	94.50	96.00	1.50	**2.4**	**0.851**	0.002	0.001		
ST97-10	M999598	YW12184046	96.00	97.50	1.50	**2.8**	**1.805**	0.002	0.002		
ST97-10	M999599	YW12184046	97.50	99.00	1.50	**1.8**	**0.913**	0.002	0.006		
ST97-10	M999601	YW12184046	99.00	100.50	1.50	-0.5	0.091	0.001	0.002		
ST97-10	M999602	YW12184046	100.50	102.00	1.50	-0.5	0.066	0.001	0.001		
ST97-10	M999603	YW12184046	102.00	103.50	1.50	-0.5	**0.299**	0.001	0.003		
ST97-10	M999604	YW12184046	103.50	105.00	1.50	-0.5	**0.141**	0.001	0.001		
ST97-10	M999605	YW12184046	105.00	106.50	1.50	-0.5	**0.111**	0.001	0.000	Brecciated Dolomicrite	Med grey, blocky core, clast supported. Trace oxidation on fracture faces.
ST97-10	M999606	YW12184046	106.50	108.00	1.50	0.5	0.053	0.001	0.003	Rubble zone	Probable protolith Brecciated Dolomicrite. Heavily oxidized and unconsolidated material. Local hematite-rich breccia clasts.
ST97-10	M999607	YW12184046	108.00	109.50	1.50	-0.5	0.030	0.001	0.002		
ST97-10	M999608	YW12184046	109.50	111.00	1.50	-0.5	0.007	0.000	0.001	Brecciated Dolomicrite	Med grey, well intact core, trace fracture surface oxidation.
ST97-11	M999609	YW12184046	64.60	66.00	1.40	-0.5	0.024	0.001	0.002	Dolomicrite	Siderite overprint, rust orange in colour. Minor vuggy bioturbated horizons. Trace Malachite along fractures.
ST97-11	M999611	YW12175936	66.00	67.50	1.50	-0.5	0.037	0.001	0.002		
ST97-11	M999612	YW12175936	67.50	69.00	1.50	0.6	0.072	0.002	0.003		
ST97-11	M999613	YW12175936	69.00	70.50	1.50	-0.5	0.056	0.001	0.002	Laminated Dolomicrite	Finely laminated, weakly fractured - fractures are healed with Calcite. Interbedded breccia horizons.
ST97-11	M999614	YW12175936	70.50	71.50	1.00	-0.5	0.020	0.001	0.001		
ST97-11	M999615	YW12175936	71.50	72.50	1.00	0.6	0.010	0.000	0.001		
ST97-11	M999616	YW12175936	160.00	161.50	1.50	-0.5	0.018	0.001	0.002	Laminated Dolomicrite	Finely laminated with interbeds of Framestone / Stromatolites. Local healed breccia zones.
ST97-11	M999617	YW12175936	161.50	163.00	1.50	-0.5	0.029	0.001	0.004	Dolo Sandstone	Oxidized and broken down.