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## **DECLAN RESOURCES INC.**

# ASSESSMENT REPORT: 2014 EXPLORATION OF THE MAYBELLE NORTH PROPERTY, NORTHEAST ALBERTA

## PART B

Metallic and Industrial Mineral Permits: 9309040390, 9309040394, 9309040395, 9309040399, 9312120373 & 9312120374

Geographic Coordinates:

58°20' N to 58°32' N 110°20' W to 110°53' W

NTS Sheets:

074L07, 074L08, 074L09, 074L10

OWNER: 877384 ALBERTA LTD.

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DATE: AUGUST 15<sup>™</sup>, 2014



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## SUMMARY

In April of 2014, Declan Resources Inc. acquired the Maybelle North Property ("the Property"), consisting of four contiguous Metallic and Industrial Mineral (MAIM) permits, 9309040390, 9309040394, 9309040395, 9309040399, totalling 18,908 ha in northeastern Alberta. Declan added to the Maybelle North Property in August, 2014 when they acquired an additional two contiguous MAIM permits, 9312120373 & 9312120374, bringing the total area of the Property to 36,060 ha.

The Property is located directly south of Lake Athabasca to the east of Maybelle River. The nearest community is Fort Chipewyan, Alberta, located approximately 35 km northwest of the Property. The Maybelle North Property is located proximal to the western margin of the Athabasca Basin, known for high grade uranium deposits. The objective of the work described within this assessment report was to locate geophysical anomalies associated with unconformity type uranium deposits.

From April 4<sup>th</sup> through April 11<sup>th</sup>, 2014, Dahrouge Geological Consulting Ltd. contracted Aeroquest Airborne, on behalf of Declan Resources Inc., to conduct an airborne versatile time domain electromagnetic (VTEM<sup>plus</sup>) and horizontal magnetic gradiometer geophysical survey over both the Maybelle North and Richardson River Properties. The purpose of the geophysical survey was to detect conductors and magnetic anomalies at depth, both of which are commonly associated with unconformity type uranium deposits. In total, approximately 624 line km were flown over the Maybelle North Property and 380 line km were flown over the Richardson River Property from April 10<sup>th</sup>-11<sup>th</sup>, 2014. The two Declan owned properties although adjacent, do not consist of a contiguous set of MAIM permits; therefore a separate assessment report will be filed for the work performed on the Richardson River Property.

Aeroquest provided a detailed logistical report and associated figures following the VTEM plus and horizontal magnetic gradiometer survey. The survey results display numerous anomalous zones, including electromagnetic anomalies that correspond with regional magnetic anomalies. Further analysis will assist in locating graphitic conductive features that are associated with unconformity type uranium deposits.



Maybelle North Property Declan Resources Inc.

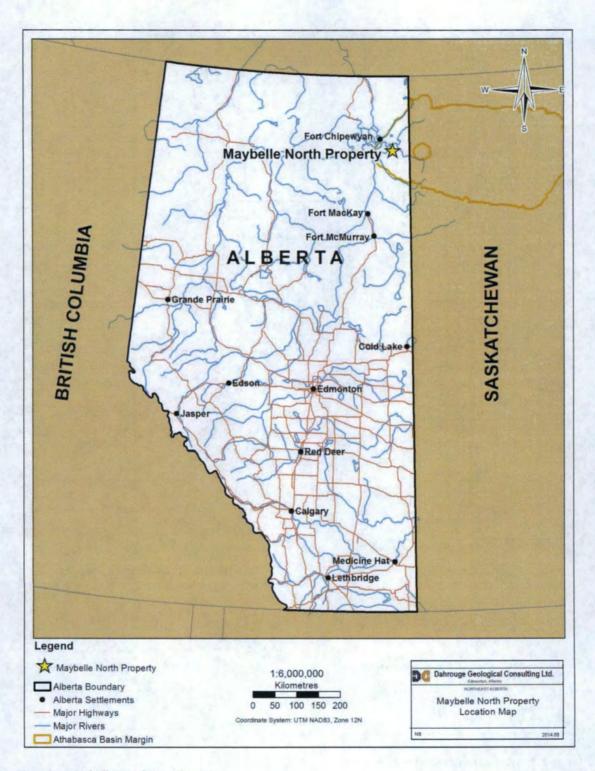


Figure 1: Maybelle North Location Map

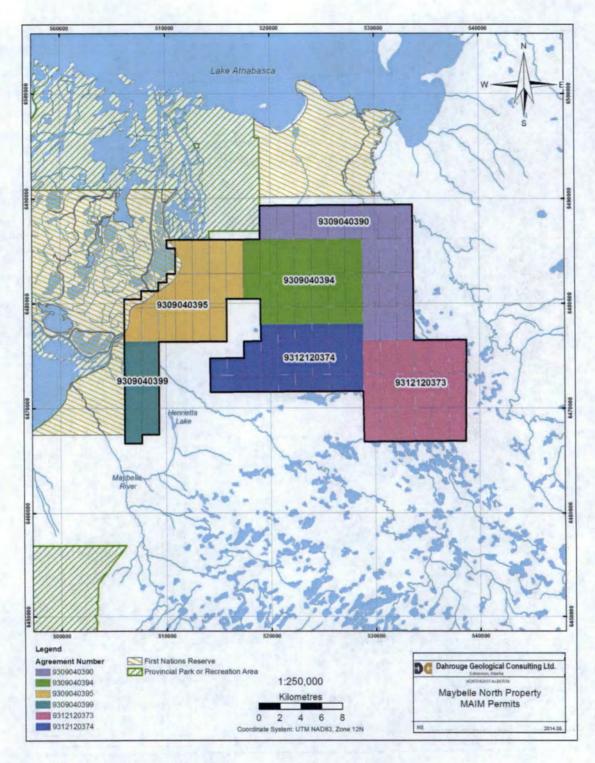


Figure 2: Maybelle North MAIM Permits

## **EXPLORATION EXPENDITURES**

Exploration expenditures for the Maybelle North Property totalled \$123,522.12. The expenditures were insufficient to maintain the entire Property. The details regarding which land will be retained are outlined in Part A of this report. Exploration expenditures are displayed in Table 1.

Table 1: List of Total Expenditures by Exploration Activity

			<b>AMOUNT SPENT</b>
1.	Prospecting		\$
2.	Geological mapping and petrography		\$ -
3.	Geophysical Surveys		
	a. Airborne		\$ 112,292.84
	b. Ground		\$
4.	Geochemical Surveys		\$
5.	Trenching and Stripping		\$
5.	Drilling		\$
7.	Assaying and whole rock analysis		\$
8.	Other Work		\$
		SUBTOTAL	\$ 112,292.84
).	Administration (10% of subtotal)		\$ 11,229.28
		TOTAL	\$ 123,522.12

## 1 INTRODUCTION

The objective of the work performed on the Maybelle North Property during April, 2014 was to identify electromagnetic and magnetic anomalies commonly associated with unconformity style uranium deposits. This was accomplished by flying a 624 line km versatile time domain electromagnetic (VTEM<sup>plus</sup>) and horizontal magnetic gradiometer geophysical survey over the Property.

Historically, VTEM and magnetic geophysical surveys have been an effective method in the exploration of unconformity type uranium deposits in the Athabasca Basin. The conductors and associated magnetic anomalies detected from the survey can be compared to those of know uranium mineralization. The most promising anomalies become the primary targets for follow up ground geophysical surveys and exploration.

## 2 LOCATION, ACCESS AND TOPOGRAPHY

The Maybelle North Property is located within the National Topographic System Map Sheets 074L07, 074L08, 074L09 and 074L10. The permit area is bound by geographical coordinates 58°20′ N to 58°32′ N and 110°20′ W to 110°53′ W

Fort Chipewyan is located approximately 35 km to the northwest of the Property and Fort McMurray is located approximately 200 km to the south. Fort Chipewyan was used as a staging point for the crew and helicopter for the duration of the survey. Air strips exist in both Fort Chipewyan as well as Embarrass, which is located approximately 40 km to the southwest of the Property and is connected with Fort McMurray via an all season road. Although no ground access was required for the geophysical surveys, a few trails and cutlines exist within the Property. A winter road exists 10 km to the southwest of the Property that connects Fort McMurray and Fort Chipewyan.

The topography is generally flat with the elevation ranging from approximately 240 to 340 m above sea level. The area consists of sandy dunes and plateaus as well as swampy low lying wetland areas. Richardson Lake is directly adjacent to the west and Lake Athabasca is located 10 km to the north.

## 3 GEOLOGY

### 3.1 REGIONAL GEOLOGY AND MINERALIZATION

The Maybelle North Property is located near the south western margin of the Athabasca Basin, which is home to some of the world's highest grade uranium deposits. The Athabasca Basin is comprised of the Athabasca Group, which consists of four quartzose unconformity bound fluvial sequences deposited between 1760 Ma and 1500 Ma (Ramaekers et al, 2007). Below the unconformity exists a variably preserved layer of paleoweathered, hematitic, clay altered regolith, which grades into a chloritic altered zone then fresh basement rock. The basement rocks dominantly consist of metamorphosed Archean to Paleoproterozoic granitoids and supracrustal gneisses, including graphitic metapelites which commonly host reactivated shear zones and numerous uranium deposits (Jefferson et al, 2007).

The uranium deposits associated with the Athabasca Basin are generally located in close proximity to the unconformities between the quartz rich sandstone conglomerates and highly metamorphosed basement rock. They occur in numerous shapes, sizes and deposit types, ranging from basement hosted veins to lenses straddling or just above the unconformity (Jefferson et al, 2007). Figure 3 displays the regional geology of the Athabasca Basin in addition to past producing/active mines, advanced stage and recently discovered uranium deposits.



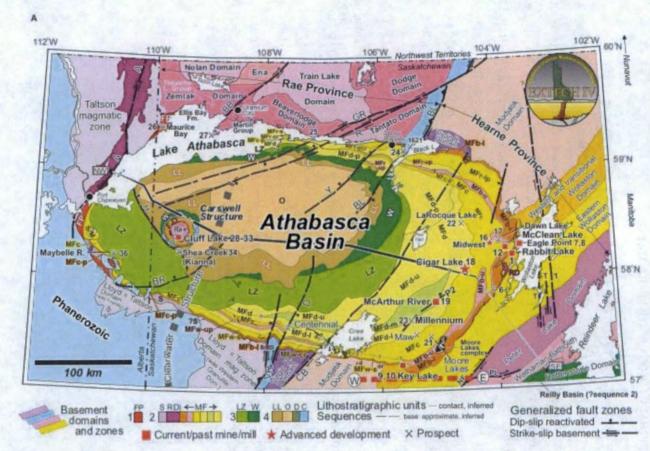


Figure 3: Regional Geologic Map of the Athabasca Basin (from Jefferson et al, 2007)

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## 3.2 PROPERTY GEOLOGY

The Maybelle North Property is located near the southwestern margin of the Athabasca Basin, with depths to the unconformity ranging from 200 m to 600 m. The Property overlies four members of the Lazenby Lake Formation; the Hodge Member, Clampitt Member, Larter Member and Shiels Member. A geologic map of the Property is located in Figure 4.

The Hodge Member of the Lazenby Lake Formation, which lies in the southwestern corner of the Property, is described as a quartz pebble conglomerate grading upward to a quartz arenite (Ramaekers et al, 2007). The Clampitt Member is described as a coarse grained pebbly quartz arenite with < 20 cm layers of red hematic mudstone and very fine quartz arenite (Ramaekers et al, 2007). The Shiels Member is described by Ramaekers as a pebbly quartz arenite with minimal mudstone or intraclasts. Lastly the Larter member is described as a fining upward quartz arenite with sparse pebbled quartz (Ramaekers et al, 2007).



Maybelle North Property Declan Resources Inc.

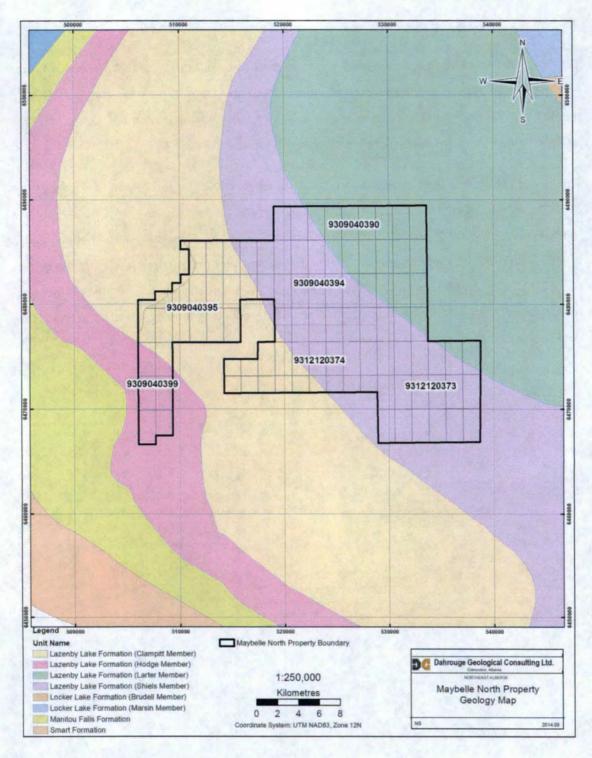


Figure 4: Maybelle North Property - Geology Map

## 4 WORK PERFORMED

From April 4<sup>th</sup> through April 11<sup>th</sup>, 2014, Dahrouge Geological Consulting Ltd. contracted Aeroquest Airborne, on behalf of Declan Resources, to conduct an airborne versatile time domain electromagnetic (VTEM<sup>plus</sup>) and horizontal magnetic gradiometer geophysical survey over two Properties in northeastern Alberta, including the Maybelle North Property.

Aeroquest mobilized to Fort Chipewyan, the main staging point for the survey, on April 4<sup>th</sup> and April 5<sup>th</sup>, 2014. Upon arrival, the crew spent two additional days assembling the system and preparing for the VTEM<sup>plus</sup> and horizontal magnetic gradiometer survey. One day was lost due to bad weather.

A total of 1,004 km were flown over six flights from April 10<sup>th</sup> to April 11<sup>th</sup>, with 624 line km flown over the Maybelle North Property. The remaining line kilometres were flown over a nearby Declan owned Property. The traverse lines were flown in an E-W direction with spacing of 500 m. Tie lines were flown perpendicular to the traverse lines at a spacing of 5,000 m. The survey was carried out using an Astar 350 B3 helicopter flying at an average speed of 80 km/h and an average altitude of 72 m above the ground.

Following the survey, Aeroquest provided a detailed logistical report (Appendix 2) with accompanying figures from the VTEM<sup>plus</sup> and horizontal magnetic gradiometer survey. No formal interpretation was requested from Aeroquest.

The purpose of this survey was to map electromagnetic and magnetic anomalies at depth, in an effort to locate conductive zones often associated with unconformity type uranium deposits.

## 5 RESULTS

The results of the entire 1,004 km VTEM<sup>plus</sup> survey and hortizontal magnetic gradiometer survey are displayed in the maps provided by Aeroquest located in Appendix 1 as well as in the attached report in Appendix 2. As two non-contiguous properties were surveyed coincidently, the attached figures and appendices display the results of both the Maybelle North Property as well as Declan's adjacent Richardson River Property. The results pertaining to the Maybelle North Property and this assessment report are found in traverse lines 1000 through 1461 and tie lines 2000 through 2050.



The resistivity depth images (RDI) associated with each individual traverse and tie line are located in the attached report provided by Aeroquest (Appendix 2).

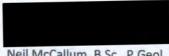
## CONCLUSIONS

A helicopter-borne VTEM<sup>plus</sup> and horizontal magnetic gradiometer geophysical survey was completed on the Maybelle North Property over two days in April 2014. Several anomalous features were located from the two surveys, and new exploration targets were identified.

The horizontal magnetic gradiometer survey displayed prominent magnetic anomalies over the Property. The traverse lines flew over the southwestern MAIM permit 9309040399, show a general magnetic low trend with a few spot magnetic highs. The central part of the Property displays two linear magnetic high trends running north-south in contact with magnetic lows. Magnetic lows have been known to be associated with unconformity type uranium deposits, particularly when in correlation with a strong EM anomaly. The contacts visible in the magnetics can also represent a change in rock type, which can result in changes in pH and act as conduits for fluid flow, both of which are important factors for mineralization.

The VTEM<sup>plus</sup> survey outlined three prominent anomalous zones within the Maybelle North Property. The electromagnetic anomalies were identified at depths between 350-400 m. A prominent EM anomaly exists on the southwestern tip of the Property, and is in correlation with the magnetic low anomaly described above. Another strong anomalous zone exists within the central portion of the Property and is also in correlation with a magnetic anomaly. The third anomaly, displaying a relatively strong EM high, exists within the southern portion of MAIM permit 9309040395.

Overall, the geophysical surveys performed on the Maybelle North Property were successful in identifying both electromagnetic and magnetic anomalies generally associated with unconformity type uranium mineralization. New exploration targets were generated from the interpretation of data collected from the two surveys. Follow up exploration programs on the Property will focus on these newly acquired targets.



Neil McCallum, B.Sc., P.Geol.



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## 8 STATEMENT OF QUALIFICATIONS

Neil McCallum is a project geologist with Dahrouge Geological Consulting Ltd. He received a B.Sc. Specialization in Geology degree from the University of Alberta in 2004, and has since been employed in the mineral exploration industry continuously. Neil McCallum has been registered as a professional geologist with the Association of Professional Engineers and Geoscientists of British Columbia since 2011.

Nathan Schmidt is a geological consultant with Dahrouge Geological Consulting Ltd. He obtained a B.Sc. Specialization in Geology degree from the University of Alberta, Edmonton in December 2010, and has been employed in the mineral exploration industry since September, 2011. He is registered as a geologist in training with the Association of Professional Engineers and Geoscientists of Alberta.



## APPENDIX 1: AEROQUEST INC. VTEMPLUS AND HORIZONTAL MAGNETIC GRADIOMETER FINAL FIGURES



## APPENDIX 2: AEROQUEST INC. VTEMPLUS AND HORIZONTAL MAGNETIC GRADIOMETER FINAL REPORT

## REPORT ON A HELICOPTER-BORNE

# VERSATILE TIME DOMAIN ELECTROMAGNETIC (VTEM<sup>plus</sup>) AND HORIZONTAL MAGNETIC GRADIOMETER GEOPHYSICAL SURVEY

Maybelle North Block

Fort Chipewyan, Northern Alberta

For:

Declan Resources Corp.

By:

Aeroquest Airborne

245 Industrial Parkway North

Aurora, Ont., CANADA, L4G 4C4

Tel: 1.905.841.5004

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Survey flown during April 2014

Project AQ140139

May, 2014

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	TEM Resitivity Depth Imaging (RDI)
	Resistivty Depth Images.



# REPORT ON A HELICOPTER-BORNE VERSATILE TIME DOMAIN ELECTROMAGNETIC (VTEM<sup>plus</sup>) and HORIZONTAL MAGNETIC GRADIOMETER GEOPHYSICAL SURVEY

Maybelle North Block Fort Chipewyan, Northern Alberta

## **EXECUTIVE SUMMARY**

During April 10<sup>th</sup> to April 11<sup>th</sup> 2014 Aeroquest Airborne carried out a helicopter-borne geophysical survey over the Maybelle North Block situated near Fort Chipewyan, Northern Alberta, Canada.

Principal geophysical sensors included a versatile time domain electromagnetic (VTEM<sup>plus</sup>) system, and horizontal magnetic gradiometer. Ancillary equipment included a GPS navigation system and a radar altimeter. A total of 1004 line-kilometres of geophysical data were acquired during the survey.

In-field data quality assurance and preliminary processing were carried out on a daily basis during the acquisition phase. Preliminary and final data processing, including generation of final digital data and map products were undertaken from the office of Aeroquest Airborne in Aurora, Ontario.

The processed survey results are presented as the following maps:

- Electromagnetic stacked profiles of the B-field Z Component,
- Electromagnetic stacked profiles of dB/dt Z Components,
- B-Field Z Component Channel grid
- Total Magnetic Intensity (TMI),
- dB/dt X Component Fraser Filtered grid.
- Calculated Time Constant (Tau) with contours of anomaly areas of the Calculated Vertical Derivative of TMI
- Power Line Monitor grid,
- Magnetic Total Horizontal Gradient
- Magnetic Tilt-Angle Derivative
- RDI sections are presented.

Digital data includes all electromagnetic and magnetic products, plus ancillary data including the waveform.

The survey report describes the procedures for data acquisition, processing, final image presentation and the specifications for the digital data set.



#### 1. INTRODUCTION

#### 1.1 **General Considerations**

Aeroquest Airborne performed a helicopter-borne geophysical survey over the Maybelle North Block located near Fort Chipewyan, Northern Alberta (Figure 1 & 2).

David Miller represented Declan Resources Corp. during the data acquisition and data processing phases of this project.

The geophysical surveys consisted of helicopter borne EM using the versatile time-domain electromagnetic (VTEM<sup>plus</sup>) with full receiver-waveform streamed data recorded system with Z and X component measurements and horizontal magnetic gradiometer using two cesium magnetometers. A total of 1004 line-km of geophysical data were acquired during the survey.

The crew was based out of Fort Chipewyan (Figure 2) in Ontario for the acquisition phase of the survey. Survey flying started on April 10<sup>th</sup> and was completed on April 11<sup>th</sup>, 2014.

Data quality control and quality assurance, and preliminary data processing were carried out on a daily basis during the acquisition phase of the project. Final data processing followed immediately after the end of the survey. Final reporting, data presentation and archiving were completed from the Aurora office of Aeroquest Airborne in May, 2014.

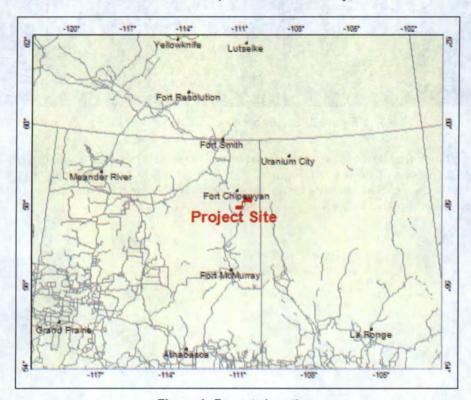


Figure 1: Property Location.



#### 1.2 Survey and System Specifications

The survey area is located near Fort Chipewyan, Northern Alberta (Figure 2). Mag Base Google earth

Figure 2: Survey area location on Google Earth.

The block was flown in an east to west direction (N 90° E azimuth) with traverse line spacing of 500 metres as depicted in Figure 3. Tie lines were flown perpendicular to the traverse lines at a spacing of 5000 metres respectively. For more detailed information on the flight spacing and direction see Table 1.

## 1.3 Topographic Relief and Cultural Features

Topographically, the blocks exhibit a shallow relief with an elevation ranging from 208 to 323 metres above mean sea level over an area of 458 square kilometres (Figure 3).

There are various rivers and streams running through the survey area which connect various lakes and wetlands. There are visible signs of culture such as roads, buildings and trails running throughout the survey area.



Figure 3 - Flight path over a Google Earth Image

The survey area is covered by NTS (National Topographic Survey) of Canada sheets 074L01, 074L02, 074L03, 074L06, 074L07, 074L08, 074L09, 074L10 & 074L11.

## 2. DATA ACQUISITION

## 2.1 Survey Area

The survey block (see Figure 3 and Appendix A) and general flight specifications are as follows:

Table 1: Survey Specifications

Survey block	Traverse Line spacing (m)	Area (Km²)	Planned <sup>1</sup> Line-km	Actual Line- km	Flight direction	Line numbers
block	Traverse: 500	458	908	915.9	N 90° E / N 270° E	L1000-L1640
DIOCK	Tie: 5000		96	96.9	N 0° E / N 180° E	T2000-T2080
	TOTAL	458	1004	1012.8	A CONTRACTOR	

Survey block boundaries co-ordinates are provided in Appendix B.

## 2.2 Survey Operations

Survey operations were based out of Fort Chipewyan, Northern Alberta from April 4<sup>th</sup>, to April 11<sup>th</sup> 2014. The following table shows the timing of the flying.

Table 2: Survey schedule

Date	Flight#	Flown km	Block	Crew location	Comments
4-Apr-2014	Har Jane	A Phy	Marine.	Fort Chipewyan, AB	Mobilization
5-Apr-2014	THE WAY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Fort Chipewyan, AB	Mobilization
6-Apr-2014	Mar 12		TO SUPE	Fort Chipewyan, AB	Crew arrived
7-Apr-2014	Pally T	and the	SHIP W	Fort Chipewyan, AB	System assembly
8-Apr-2014		-200	MAT HA	Fort Chipewyan, AB	System assembly
9-Apr-2014		Market S		Fort Chipewyan, AB	No production due to weather
10-Apr-2014	1,2,3	455	Harry	Fort Chipewyan, AB	455km flown
11-Apr-2014	4,5,6	549	3	Fort Chipewyan, AB	Remaining kms were flown - flying complete

<sup>&</sup>lt;sup>1</sup> Note: Actual Line kilometres represent the total line kilometres in the final database. These line-km normally exceed the planned line-km, as indicated in the survey NAV files.



4

#### 2.3 Flight Specifications

During the survey the helicopter was maintained at a mean altitude of 72 metres above the ground with an average survey speed of 80 km/hour. This allowed for an actual average EM bird terrain clearance of 41 metres and a magnetic sensor clearance of 48 metres.

The on board operator was responsible for monitoring the system integrity. He also maintained a detailed flight log during the survey, tracking the times of the flight as well as any unusual geophysical or topographic features.

On return of the aircrew to the base camp the survey data was transferred from a compact flash card (PCMCIA) to the data processing computer. The data were then uploaded via ftp to the Geotech office in Aurora for daily quality assurance and quality control by qualified personnel.

#### 2.4 Aircraft and Equipment

## 2.4.1 Survey Aircraft

The survey was flown using a Eurocopter Aerospatiale (Astar) 350 B3 helicopter, registration C-GTEQ. The helicopter is owned and operated by Geotech Aviation. Installation of the geophysical and ancillary equipment was carried out by an Aeroquest Airborne crew.

## 2.4.2 Electromagnetic System

The electromagnetic system was a Geotech Time Domain EM (VTEM<sup>plus</sup>) full receiverwaveform streamed data recorded system. The "full waveform VTEM system" uses the streamed half-cycle recording of transmitter and receiver waveforms to obtain a complete system response calibration throughout the entire survey flight. VTEM with the Serial number 8 had been used for the survey. The configuration is as indicated in Figure 5.

The VTEM Receiver and transmitter coils were in concentric-coplanar and Z-direction oriented configuration. The receiver system for the project also included a coincident-coaxial X-direction coil to measure the in-line dB/dt and calculate B-Field responses. The EM bird was towed at a mean distance of 34 metres below the aircraft as shown in Figure 5. The receiver decay recording scheme is shown diagrammatically in Figure 4.

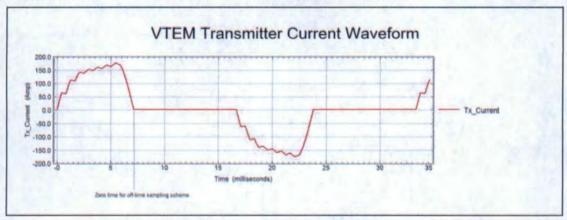


Figure 4: VTEM Waveform & Sample Times.



The VTEM decay sampling scheme is shown in Table 3 below. Forty three time measurement gates were used for the final data processing in the range from 0.021 to 8.083 msec. Zero time for off-time sampling scheme is equal to current pulse width and defined as the time near the end of the turn-off ramp where the dl/dt waveform falls to 1/2 of its peak

Table 3: Off-Time Decay Sampling Scheme

	VTEM D	ecay Sar	mpling Sch	eme
index	Start	End	Middle	Window
		Millised	onds	
4	0.018	0.023	0.021	0.005
5	0.023	0.029	0.026	0.005
6	0.029	0.034	0.031	0.005
. 7	0.034	0.039	0.036	0.005
8	0.039	0.045	0.042	0.006
9	0.045	0.051	0.048	0.007
10	0.051	0.059	0.055	0.008
11	0.059	0.068	0.063	0.009
12	0.068	0.078	0.073	0.010
13	0.078	0.090	0.083	0.012
14	0.090	0.103	0.096	0.013
15	0.103	0.118	0.110	0.015
16	0.118	0.136	0.126	0.018
17	0.136	0.156	0.145	0.020
18	0.156	0.179	0.167	0.023
19	0.179	0.206	0.192	0.027
20	0.206	0.236	0.220	0.030
21	0.236	0.271	0.253	0.035
22	0.271	0.312	0.290	0.040
23	0.312	0.358	0.333	0.046
24	0.358	0.411	0.383	0.053
25	0.411	0.472	0.440	0.061
26	0.472	0.543	0.505	0.070
27	0.543	0.623	0.580	0.081
28	0.623	0.716	0.667	0.093
29	0.716	0.823	0.766	0.107
30	0.823	0.945	0.880	0.122
31	0.945	1.086	1.010	0.141
32	1.086	1.247	1.161	0.161
33	1.247	1.432	1.333	0.185
34	1.432	1.646	1.531	0.214
35	1.646	1.891	1.760	0.245
36	1.891	2.172	2.021	0.281



VTEM Decay Sampling Scheme								
index	Start	End	Middle	Window				
POST SA	Milliseconds							
37	2.172	2.495	2.323	0.323				
38	2.495	2.865	2.667	0.370				
39	2.865	3.292	3.063	0.427				
40	3.292	3.781	3.521	0.490				
41	3.781	4.341	4.042	0.560				
42	4.341	4.987	4.641	0.646				
43	4.987	5.729	5.333	0.742				
44	5.729	6.581	6.125	0.852				
45	6.581	7.560	7.036	0.979				
46	7.560	8.685	8.083	1.125				

Z Component: 4-46 time gates X Component: 20-46 time gates.

## VTEM system specifications:

## Transmitter

Transmitter coil diameter: 26 m

Number of turns: 4

Effective Transmitter coil area: 2123.7 m<sup>2</sup>

Transmitter base frequency: 30 Hz

Peak current: 176 A Pulse width: 7.14 ms

Wave form shape: Bi-polar trapezoid Peak dipole moment: 373,771 nIA

Actual average EM Bird terrain clearance: 41 metres above the ground

## Receiver

X Coil diameter: 0.32 m Number of turns: 245 Effective coil area: 19.69 m<sup>2</sup> Z-Coil coil diameter: 1.2 m

Number of turns: 100 Effective coil area: 113.04 m<sup>2</sup>

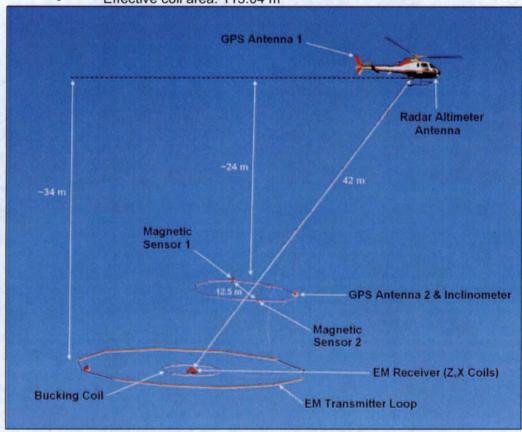


Figure 5: VTEM<sup>plus</sup> System Configuration.



## 2.4.3 Horizontal Magnetic Gradiometer

The horizontal magnetic gradiometer consists of two Geometrics split-beam field magnetic sensors with a sampling interval of 0.1 seconds. These sensors are mounted 12.5 metres apart on a separate loop, 10 metres above the EM bird. A GPS antenna and Gyro Inclinometer is installed on the separate loop to accurately record the tilt and position of the magnetic gradiomag bird.

## 2.4.4 Full Waveform VTEM Sensor Calibration

The calibration is performed on the complete VTEM system installed in and connected to the helicopter, using special calibration equipment.

The procedure takes half-cycle files acquired and calculates a calibration file consisting of a single stacked half-cycle waveform. The purpose of the stacking is to attenuate natural and man-made magnetic signals, leaving only the response to the calibration signal.

### 2.4.5 Radar Altimeter

A Terra TRA 3000/TRI 40 radar altimeter was used to record terrain clearance. The antenna was mounted beneath the bubble of the helicopter cockpit (Figure 5).

## 2.4.6 GPS Navigation System

The navigation system used was a Geotech PC104 based navigation system utilizing a NovAtel's WAAS (Wide Area Augmentation System) enabled GPS receiver, Geotech navigate software, a full screen display with controls in front of the pilot to direct the flight and a NovAtel GPS antenna mounted on the helicopter tail (Figure 5). As many as 11 GPS and two WAAS satellites may be monitored at any one time. The positional accuracy or circular error probability (CEP) is 1.8 m, with WAAS active, it is 1.0 m. The co-ordinates of the block were set-up prior to the survey and the information was fed into the airborne navigation system. The second GPS antenna is installed on the additional magnetic loop together with Gyro Inclinometer.

## 2.4.7 Digital Acquisition System

A Geotech data acquisition system recorded the digital survey data on an internal compact flash card. Data is displayed on an LCD screen as traces to allow the operator to monitor the integrity of the system. The data type and sampling interval as provided in Table 4.

**Data Type** Sampling TDEM 0.1 sec 0.1 sec Magnetometer **GPS** Position 0.2 sec Radar Altimeter 0.2 sec

Inclinometer

Table 4: Acquisition Sampling Rates



0.1 sec

#### 2.5 **Base Station**

A combined magnetometer/GPS base station was utilized on this project. A Geometrics Cesium vapour magnetometer was used as a magnetic sensor with a sensitivity of 0.001 nT. The base station was recording the magnetic field together with the GPS time at 1 Hz on a base station computer.

The base station magnetometer sensor was installed behind the service shed at the airport (58° 46.000'N, 111° 6.000'W); away from electric transmission lines and moving ferrous objects such as motor vehicles. The base station data were backed-up to the data processing computer at the end of each survey day.



#### 3. **PERSONNEL**

The following Geotech Ltd. personnel were involved in the project.

Field:

Project Manager: Darren Tuck (Office)

Data QC: Neil Fiset (Office)

Crew chief: Jason McKinnon

Ben Bruder Operator:

The survey pilot and the mechanical engineer were employed directly by the helicopter operator - Geotech Aviation

Pilot: Brad McRae

Mechanical Engineer: n/a

Pilot: Walter Zec

Mechanical Engineer: Darren Paterson

Office:

Preliminary Data Processing: **Neil Fiset** 

Final Data Processing: Shaolin Lu

Final Data QA/QC: Geoffrey Plastow

Reporting/Mapping: Kezia Au

Data acquisition phase was carried out under the supervision of Andrei Bagrianski, P. Geo, Chief Operating Officer. Processing and Interpretation phases were carried out under the supervision of Geoffrey Plastow, P.Geo, Data Processing Manager and Alexander Prikhodko, P. Geo, Manager of Data Interpretation. The customer relations were looked after by David



## 4. DATA PROCESSING AND PRESENTATION

Data compilation and processing were carried out by the application of Geosoft OASIS Montaj and programs proprietary to Aeroquest Airborne.

## 4.1 Flight Path

The flight path, recorded by the acquisition program as WGS 84 latitude/longitude, was converted into the NAD83 Datum, UTM Zone 12 North coordinate system in Oasis Montaj.

The flight path was drawn using linear interpolation between x, y positions from the navigation system. Positions are updated every second and expressed as UTM easting's (x) and UTM northing's (y).

## 4.2 Electromagnetic Data

The Full Waveform EM specific data processing operations included:

Half cycle stacking (performed at time of acquisition); System response correction; Parasitic and drift removal.

A three stage digital filtering process was used to reject major sferic events and to reduce noise levels. Local sferic activity can produce sharp, large amplitude events that cannot be removed by conventional filtering procedures. Smoothing or stacking will reduce their amplitude but leave a broader residual response that can be confused with geological phenomena. To avoid this possibility, a computer algorithm searches out and rejects the major sferic events.

The signal to noise ratio was further improved by the application of a low pass linear digital filter. This filter has zero phase shift which prevents any lag or peak displacement from occurring, and it suppresses only variations with a wavelength less than about 1 second or 15 metres. This filter is a symmetrical 1 sec linear filter.

The results are presented as stacked profiles of EM voltages for the time gates, in linear-logarithmic scale for the B-field Z component and dB/dt responses in the Z and X components. B-field Z component time channel recorded at 1.760 milliseconds after the termination of the impulse is also presented as a colour image. Fraser Filter dB/dt X component is also presented as a colour image. Calculated Time Constant (TAU) with Calculated Vertical Derivative contours is presented in Appendix C and an analysis in Appendix E. Resistivity Depth Image (RDI) analysis is also presented in Appendix F.

VTEM has two receiver coil orientations. Z-axis coil is oriented parallel to the transmitter coil axis and both are horizontal to the ground. The X-axis coil is oriented parallel to the ground and along the line-of-flight. This combined two coil configuration provides information on the position, depth, dip and thickness of a conductor. Generalized modeling results of VTEM data, are shown in Appendix D.



In general X-component data produce cross-over type anomalies: from "+ to - "in flight direction of flight for "thin" sub vertical targets and from "- to +" in direction of flight for "thick" targets. Z component data produce double peak type anomalies for "thin" sub vertical targets and single peak for "thick" targets.

The limits and change-over of "thin-thick" depends on dimensions of a TEM system (Appendix D, Figure D-16).

Because of X component polarity is under line-of-flight, convolution Fraser Filter (Figure 6) is applied to X component data to represent axes of conductors in the form of grid map. In this case positive FF anomalies always correspond to "plus-to-minus" X data crossovers independent of the flight direction.

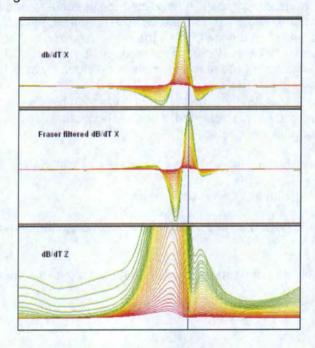


Figure 6: Z, X and Fraser filtered X (FFx) components for "thin" target.

#### 4.3 Horizontal Magnetic Gradiometer Data

The horizontal gradients data from the VTEM plus are measured by two magnetometers 12.5 m apart on an independent bird mounted10m above the VTEM loop. A GPS and a Gyro Inclinometer help to determine the positions and orientations of the magnetometers. The data from the two magnetometers are corrected for position and orientation variations, as well as for the diurnal variations using the base station data.

The position of the centre of the horizontal magnetic gradiometer bird is calculated form the GPS utilizing in-house processing tool in Geosoft. Following that total magnetic intensity is calculated at the center of the bird by calculating the mean values from both sensors. In addition to the total intensity advanced processing is done to calculate the in-line and cross-line (or lateral) horizontal gradient which enhance the understanding of magnetic targets. The in-line (longitudinal) horizontal gradient is calculated from the difference of two consecutive total magnetic field readings divided by the distance along the flight line direction, while the cross-line (lateral) horizontal magnetic gradient is calculated from the difference in the magnetic readings from both magnetic sensors divided by their horizontal separation.

Two advanced magnetic derivative products, the total horizontal derivative (THDR), and tilt angle derivative and are also created. The total horizontal derivative or gradient is also called the analytic signal, is defined as:

THDR = sqrt(Hx\*Hx+Hy\*Hy), where Hx and Hy are cross-line and in-line horizontal gradients.

The tilt angle derivative (TDR) is defined as:

TDR = arctan(Vz/THDR), where THDR is the total horizontal derivative, and Vz is the vertical derivative.

Measured cross-line gradients can help to enhance cross-line linear features during gridding.



#### 5. DELIVERABLES

## 5.1 Survey Report

The survey report describes the data acquisition, processing, and final presentation of the survey results. The survey report is provided in two paper copies and digitally in PDF format.

#### 5.2 Maps

Final maps were produced at scale of 1:50,000 for best representation of the survey size and line spacing. The coordinate/projection system used was NAD83 Datum, UTM Zone 12 North. All maps show the flight path trace, topographic data and latitude and longitude are also noted on maps.

The preliminary and final results of the survey are presented as EM profiles, a late-time gate gridded EM channel, and a colour magnetic TMI contour map. The following maps are presented;

Maps at 1:50,000 in Geosoft MAP format, as follows:

AQ140139\_50k\_dBdt: dB/dt profiles Z Component, Time Gates 0.220 - 7.036

ms in linear - logarithmic scale.

AQ140139\_50k\_Bfield: B-field profiles Z Component, Time Gates 0.220 - 7.036

ms in linear - logarithmic scale.

AQ140139 50k BFz35: B-field late time Z Component Channel 35, Time Gate

1.760 ms colour image.

AQ140139\_50k\_TMI: Total magnetic intensity (TMI) colour image and contours. AQ140139\_50k\_TauSF: dB/dt Calculated Time Constant (Tau) with contours of

anomaly areas of the Calculated Vertical Derivative of

TMI

AQ140139 50k SFxFF22: Fraser Filtered dB/dt X Component Channel 22, Time

Gate 0.290 ms colour image.

AQ140139\_50k\_PLM: Power Line Monitor colour image.

AQ140139\_50k\_TotHGrad: Magnetic Total Horizontal Gradient colour image. AQ140139\_50k\_TiltDrv: Magnetic Tilt-Angle Derivative colour image.

Maps are also presented in PDF format.

- 1:50,000 topographic vectors were taken from the NRCAN Geogratis database at; http://geogratis.gc.ca/geogratis/en/index.html.
- A Google Earth file AQ140139\_FP.kml showing the flight path of the block is included. Free versions of Google Earth software from: http://earth.google.com/download-earth.html



## 5.3 Digital Data

Two copies of the data and maps on DVD were prepared to accompany the report. Each DVD contains a digital file of the line data in GDB Geosoft Montaj format as well as the maps in Geosoft Montaj Map and PDF format.

#### DVD structure.

Data contains databases, grids and maps, as described below.Report contains a copy of the report and appendices in PDF format.

Databases in Geosoft GDB format, containing the channels listed in Table 5.

Table 5: Geosoft GDB Data Format

Channel name	Units	Description	
X:	metres	UTM Easting NAD83 Zone 12 North	
Y:	metres	UTM Northing NAD83 Zone 12 North	
Longitude:	Decimal Degrees	WGS 84 Longitude data	
Latitude:	Decimal Degrees	WGS 84 Latitude data	
Z:	metres	GPS antenna elevation (above Geoid)	
Radar:	metres	helicopter terrain clearance from radar altimeter	
Radarb:	metres	Calculated EM bird terrain clearance from radar altimete	
DEM:	metres	Digital Elevation Model	
Gtime:	Seconds of the day	GPS time	
Mag1L:	nT	Measured Total Magnetic field data (left sensor)	
Mag1R:	nT	Measured Total Magnetic field data (right sensor)	
Basemag:	nT	Magnetic diurnal variation data	
Mag2LZ	nT	Z corrected (w.r.t. loop center) and diurnal corrected magnetic field left mag	
Mag2RZ	nT	Z corrected (w.r.t. loop center) and diurnal corrected magnetic field right mag	
TMI2	nT	Calculated from diurnal corrected total magnetic field intensity of the centre of the loop	
TMI3	nT	Microleveled total magnetic field intensity of the centre of the loop	
Hgcxline		measured cross-line gradient	
Hginline		Calculated in-line gradient	
CVG	nT/m	Calculated Magnetic Vertical Gradient	
SFz[4]:	pV/(A*m4)	Z dB/dt 0.021 millisecond time channel	
SFz[5]:	pV/(A*m4)	Z dB/dt 0.026 millisecond time channel	
SFz[6]:	pV/(A*m4)	Z dB/dt 0.031 millisecond time channel	
SFz[7]:	pV/(A*m4)	Z dB/dt 0.036 millisecond time channel	
SFz[8]:	pV/(A*m4)	Z dB/dt 0.042 millisecond time channel	
SFz[9]:	pV/(A*m4)	Z dB/dt 0.048 millisecond time channel	
SFz[10]:	pV/(A*m4)	Z dB/dt 0.055 millisecond time channel	
SFz[11]:	pV/(A*m4)	Z dB/dt 0.063 millisecond time channel	
SFz[12]:	pV/(A*m4)	Z dB/dt 0.073 millisecond time channel	
SFz[13]:	pV/(A*m4)	Z dB/dt 0.083 millisecond time channel	
SFz[14]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.096 millisecond time channel	
SFz[15]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.110 millisecond time channel	



Channel name	Units	Description
SFz[16]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.126 millisecond time channel
SFz[17]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.145 millisecond time channel
SFz[18]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.167 millisecond time channel
SFz[19]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.192 millisecond time channel
SFz[20]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.220 millisecond time channel
SFz[21]:	pV/(A*m⁴)	Z dB/dt 0.253 millisecond time channel
SFz[22]:	pV/(A*m⁴)	Z dB/dt 0.290 millisecond time channel
SFz[23]:	pV/(A*m⁴)	Z dB/dt 0.333 millisecond time channel
SFz[24]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.383 millisecond time channel
SFz[25]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.440 millisecond time channel
SFz[26]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.505 millisecond time channel
SFz[27]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.580 millisecond time channel
SFz[28]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.667 millisecond time channel
SFz[29]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.766 millisecond time channel
SFz[30]:	pV/(A*m <sup>4</sup> )	Z dB/dt 0.880 millisecond time channel
SFz[31]:	pV/(A*m <sup>4</sup> )	Z dB/dt 1.010 millisecond time channel
SFz[32]:	pV/(A*m <sup>4</sup> )	Z dB/dt 1.161 millisecond time channel
SFz[33]:	pV/(A*m <sup>4</sup> )	Z dB/dt 1.333 millisecond time channel
SFz[34]:	pV/(A*m <sup>4</sup> )	Z dB/dt 1.531 millisecond time channel
SFz[35]:	pV/(A*m <sup>4</sup> )	Z dB/dt 1.760 millisecond time channel
SFz[36]:	pV/(A*m <sup>4</sup> )	Z dB/dt 2.021 millisecond time channel
SFz[37]:	pV/(A*m <sup>4</sup> )	Z dB/dt 2.323 millisecond time channel
SFz[38]:	pV/(A*m <sup>4</sup> )	Z dB/dt 2.667 millisecond time channel
SFz[39]:	pV/(A*m <sup>4</sup> )	Z dB/dt 3.063 millisecond time channel
SFz[40]:	pV/(A*m <sup>4</sup> )	Z dB/dt 3.521 millisecond time channel
SFz[41]:	pV/(A*m <sup>4</sup> )	Z dB/dt 4.042 millisecond time channel
SFz[42]:	pV/(A*m <sup>4</sup> )	Z dB/dt 4.641 millisecond time channel
SFz[43]:	pV/(A*m <sup>4</sup> )	Z dB/dt 5.333 millisecond time channel
SFz[44]:	pV/(A*m <sup>4</sup> )	Z dB/dt 6.125 millisecond time channel
SFz[45]:	pV/(A*m <sup>4</sup> )	Z dB/dt 7.036 millisecond time channel
SFz[46]:	pV/(A*m4)	Z dB/dt 8.083 millisecond time channel
SFx[20]:	pV/(A*m <sup>4</sup> )	X dB/dt 0.220 millisecond time channel
SFx[21]:	pV/(A*m <sup>4</sup> )	X dB/dt 0.253 millisecond time channel
SFx[22]:	pV/(A*m <sup>4</sup> )	X dB/dt 0.290 millisecond time channel
SFx[23]:	pV/(A*m <sup>4</sup> )	X dB/dt 0.333 millisecond time channel
SFx[24]:	pV/(A*m <sup>4</sup> )	X dB/dt 0.383 millisecond time channel
SFx[25]:	pV/(A*m <sup>4</sup> )	X dB/dt 0.440 millisecond time channel
SFx[26]:	pV/(A*m <sup>4</sup> )	X dB/dt 0.505 millisecond time channel
SFx[27]:	pV/(A*m <sup>4</sup> )	X dB/dt 0.580 millisecond time channel
SFx[28]:	pV/(A*m <sup>4</sup> )	X dB/dt 0.667 millisecond time channel
SFx[29]:	pV/(A*m <sup>4</sup> )	X dB/dt 0.766 millisecond time channel
SFx[30]:	pV/(A*m <sup>4</sup> )	X dB/dt 0.880 millisecond time channel
SFx[31]:	pV/(A*m <sup>4</sup> )	X dB/dt 1.010 millisecond time channel
SFx[32]:	pV/(A*m <sup>4</sup> )	X dB/dt 1.161 millisecond time channel
SFx[33]:	pV/(A*m <sup>4</sup> )	X dB/dt 1.333 millisecond time channel
SFx[34]:	pV/(A*m <sup>4</sup> )	X dB/dt 1.531 millisecond time channel
SFx[35]:	pV/(A*m <sup>4</sup> )	X dB/dt 1.760 millisecond time channel
SFx[36]:	pV/(A*m <sup>4</sup> )	X dB/dt 2.021 millisecond time channel
SFx[37]:	pV/(A*m <sup>4</sup> )	X dB/dt 2.323 millisecond time channel
SFx[38]:	pV/(A*m <sup>4</sup> )	X dB/dt 2.667 millisecond time channel



Channel name	Units	Description
SFx[39]:	pV/(A*m <sup>4</sup> )	X dB/dt 3.063 millisecond time channel
SFx[40]:	pV/(A*m <sup>4</sup> )	X dB/dt 3.521 millisecond time channel
SFx[41]:	pV/(A*m <sup>4</sup> )	X dB/dt 4.042 millisecond time channel
SFx[42]:	pV/(A*m <sup>4</sup> )	X dB/dt 4.641 millisecond time channel
SFx[43]:	pV/(A*m <sup>4</sup> )	X dB/dt 5.333 millisecond time channel
SFx[44]:	pV/(A*m <sup>4</sup> )	X dB/dt 6.125 millisecond time channel
SFx[45]:	pV/(A*m <sup>4</sup> )	X dB/dt 7.036 millisecond time channel
SFx[46]:	pV/(A*m4)	X dB/dt 8.083 millisecond time channel
BFz	(pV*ms)/(A*m <sup>4</sup> )	Z B-Field data for time channels 4 to 46
BFx	(pV*ms)/(A*m <sup>4</sup> )	X B-Field data for time channels 20 to 46
SFxFF	pV/(A*m <sup>4</sup> )	Fraser Filtered X dB/dt
TAUsf	ms	Time constant dB/dt
Nchansf	(本) (基) (基) (基)	Latest time channels of TAU calculation
TAUbf	ms	Time constant B-Field
Nchanbf	LASTINES STUDIES	Latest time channels of TAU calculation
PLM:		60 Hz power line monitor
Zb:	metres	EM bird elevation (above Geoid)

Electromagnetic B-field and dB/dt Z component data is found in array channel format between indexes 4-46, and X component data from 20-46, as described above.



 Database of the Resistivity Depth Images in Geosoft GDB format, containing the following channels:

Table 6: Geosoft Resistivity Depth Image GDB Data Format

Channel name	Units	Description
Xg	metres	UTM Easting NAD83 Zone 12 North
Yg	metres	UTM Northing NAD83 Zone 12 North
Dist:	meters	Distance from the beginning of the line
Depth:	meters	array channel, depth from the surface
Z:	meters	array channel, depth from sea level
AppRes:	Ohm-m	array channel, Apparent Resistivity
TR:	meters	EM system height from sea level
Topo:	meters	digital elevation model
Radarb:	metres	Calculated EM bird terrain clearance from radar altimeter
SF:	pV/(A*m^4)	array channel, dB/dT
MAG:	nT	TMI data
CVG:	nT/m	CVG data
PLM		60 Hz power line monitor
DOI:	metres	Depth of Investigation: a measure of VTEM depth effectiveness

 Database of the VTEM Waveform "AQ140139\_waveform\_final.gdb" in Geosoft GDB format, containing the following channels:

Time: Sampling rate interval, 5.2083 milliseconds
Tx Current: Output current of the transmitter (Amp)

· Grids in Geosoft GRD and GeoTIFF format, as follows:

BFz35: B-Field Z Component Channel 35 (Time Gate 1.760 ms)

CVG: Calculated Magnetic Vertical Gradient (nT/m)

DEM: Digital Elevation Model (metres)
Hgcxline: Measured Cross-Line Gradient (nT/m)
Hginline: Measured In-Line Gradient (nT/m)

SFz6: dB/dt Z Component Channel 6 (Time Gate 0.031 ms)
SFz23: dB/dt Z Component Channel 23 (Time Gate 0.333 ms)
SFz40: dB/dt Z Component Channel 40 (Time Gate 3.521 ms)

SFxFF22: Fraser Filtered x Component Channel 22 (Time gate 0.290 ms)

TauBF: B-Field Z Component, Calculated Time Constant (ms)
TauSF: dB/dt Z Component, Calculated Time Constant (ms)

TMI3: Total Magnetic Intensity (nT)

PLM: Power Line Monitor

TotHGrad: Magnetic Total Horizontal Gradient (nT/m)

TiltDrv: Magnetic Tilt derivative (radians)

A Geosoft .GRD file has a .GI metadata file associated with it, containing grid projection information. A grid cell size of 125 metres was used.



#### 6. CONCLUSIONS AND RECOMMENDATIONS

A helicopter-borne versatile time domain electromagnetic (VTEM) geophysical survey has been completed over the Maybelle North Block near Fort Chipewyan, Northern Alberta.

The total area coverage is 458 km<sup>2</sup>. Total survey line coverage of block is 1004 line kilometres. The principal sensors included a Time Domain EM system and horizontal magnetic gradiometer using two cesium magnetometers. Results have been presented as stacked profiles, and contour colour images at a scale of 1:50,000. A formal Interpretation has not been included or requested.

Based on the geophysical results obtained, a number of TEM anomalous zones are identified across the property. They can be seen in the TAU image presented with the calculated vertical magnetic gradient (CVG) contours (see Appendix C).

The broad anomalous zones are mainly distributed in northeast and southwest areas of the block. According to apparent resistivity image from the selected lines (see Appendix C, RDI sections L1040 and L1211), the estimated depth from the surface to the top of the anomalous zones in the northeast area is from 350 to 450m, thus the anomalous zones in the southwest area is from 50 to 100m (see Appendix C, RDI sections L1480). Apparently all anomalous zones are associated with trends reflected in the magnetic field.

If the conductors correspond to an exploration model on the area it is recommended picking anomalies with conductance grading and center localization of the targets, detail resistivity depth imaging and plate Maxwell modelling with test drillhole parameters prior to ground follow up and drill testing.



Respectfully submitted2,

**Neil Fiset** Geotech Ltd.

Shaolin Lu Geotech Ltd

Geoffrey Plastow P. Geo **Data Processing Manager** Geotech Ltd

May, 2014

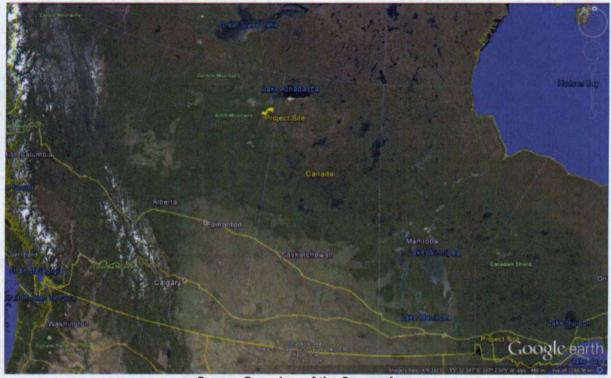
GEOFFREY C. PLASTOW PRACTISING MEMBER



<sup>&</sup>lt;sup>2</sup> Final data processing of the EM and magnetic data were carried out by Neil Fiset and Shaolin Lu, from the office of Geotech Ltd. in Aurora, Ontario, under the supervision of Geoffrey Plastow, Data Processing Manager.

# APPENDIX A

# SURVEY BLOCK LOCATION MAP



Survey Overview of the Survey Area



#### APPENDIX D

#### 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 bipolar, 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.

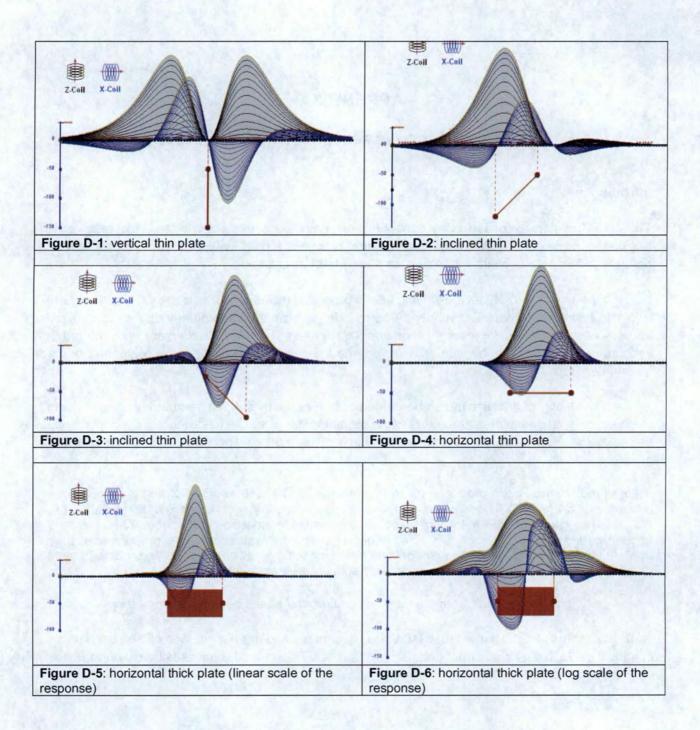
Efficient modeling of the results can be carried out on regularly shaped geometries, thus yielding close approximations to the parameters of the measured targets. The following is a description of a series of common models made for the purpose of promoting a general understanding of the measured results.

A set of models has been produced for the Geotech VTEM® system dB/dT Z and X components (see models D1 to D15). The Maxwell TM 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.

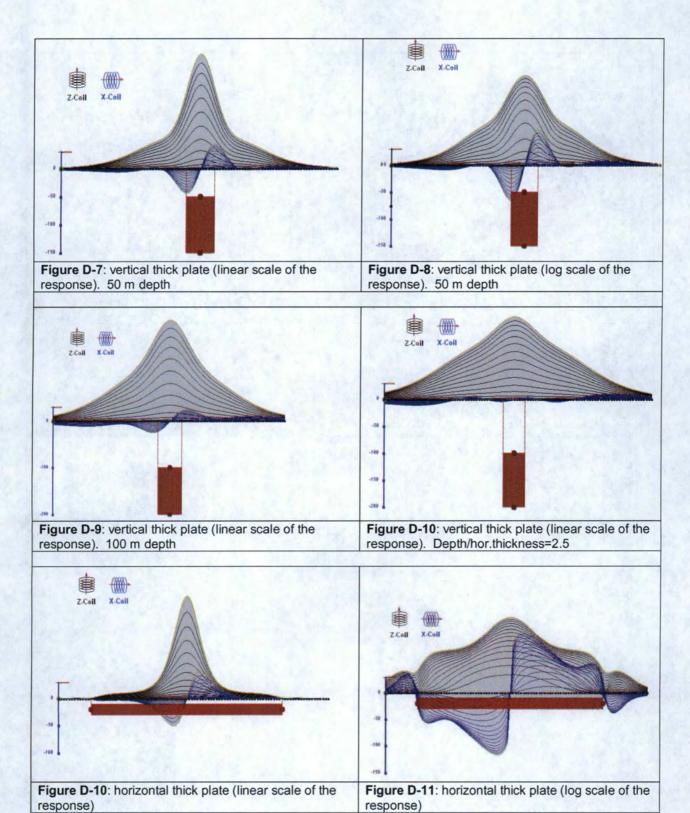
As the plate dips and departs from the vertical position, the peaks become asymmetrical.

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 90° to about 30°. The method is not sensitive enough where dips are less than about 30°.

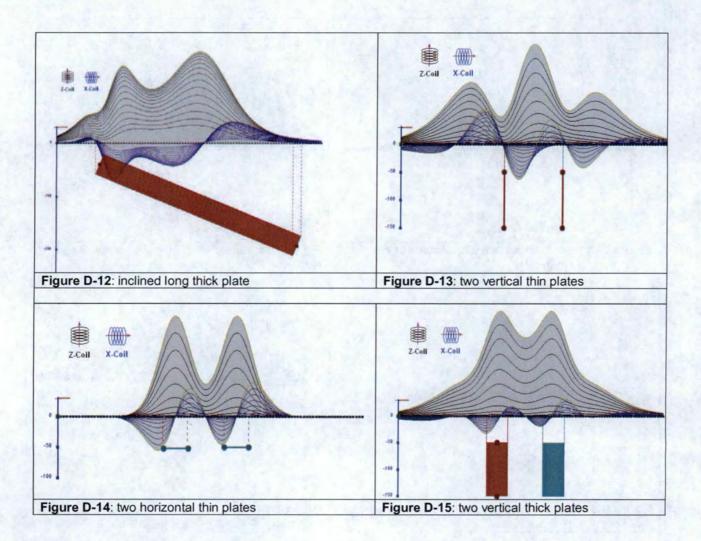














The same type of target but with different thickness, for example, creates different form of the response:

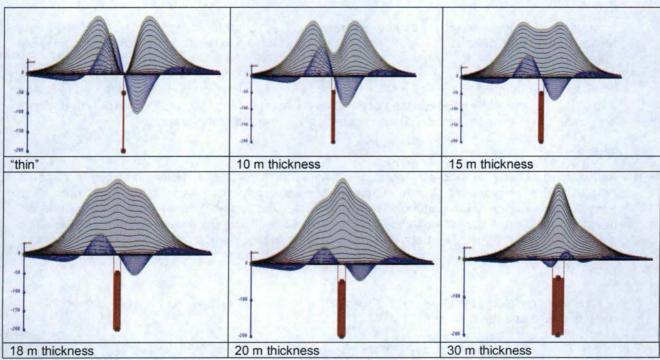


Figure D-16: Conductive vertical plate, depth 50 m, strike length 200 m, depth extends 150 m.

Alexander Prikhodko, PhD, P.Geo Geotech Ltd.

September 2010



### APPENDIX E

#### **EM TIME CONSTANT (TAU) ANALYSIS**

Estimation of time constant parameter<sup>1</sup> in transient electromagnetic method is one of the steps toward the extraction of the information about conductances 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  $(e_0)$  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.

 $\tau$  = 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  $\tau$  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 small  $\tau$ , have high initial amplitude but decay rapidly with time  $\tau$  (Fig. E1).

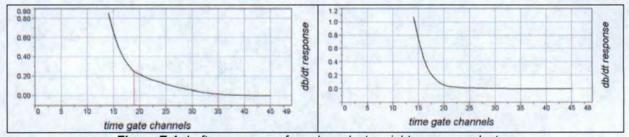


Figure E-1: Left – presence of good conductor, right – poor conductor.

<sup>&</sup>lt;sup>1</sup> 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.

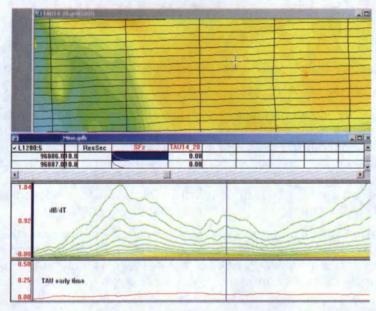


Figure E-2: Map of early time TAU. Area with overburden conductive layer and local sources.



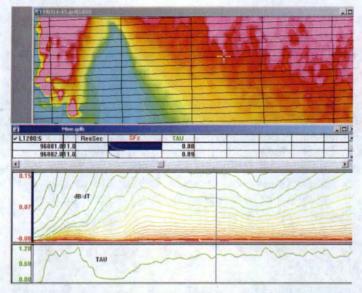


Figure E-3: Map of full time range TAU with EM anomaly due to deep highly conductive target.

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.

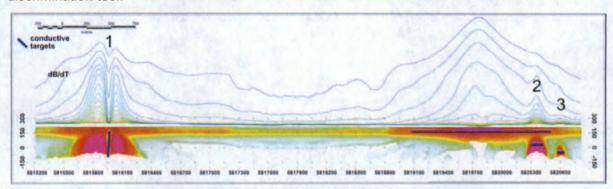


Figure E-4: dB/dt profile and RDI with different depths of targets.



# APPENDIX B

# SURVEY BLOCK COORDINATES

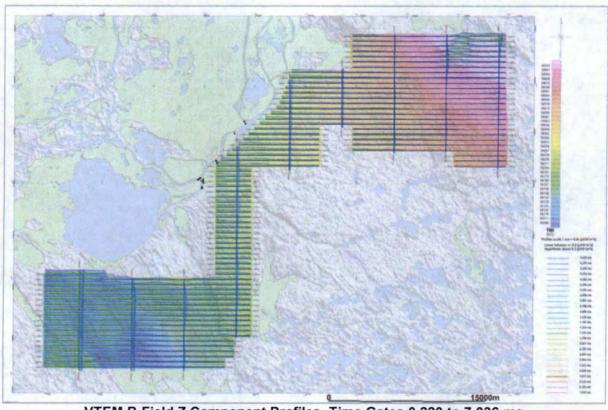
(WGS 84, UTM Zone 12 North)

X	Y
489740.7	6466643
495466	6466605
495465.1	6465800
506071.2	6465803
506069.9	6466637
506054.1	6476742
512004.2	6482386
513360.6	6486051
519036.9	6486072
519051.3	6489309
533630.8	6489410
533742.3	6476481
528856.3	6476439
528874.6	6478048
519106.5	6477989
519094.6	6480422
515840.6	6480409
515826.9	6476348
509342.3	6476323
509365.7	6466612
509343.3	6463374
509351	6460167
507745.8	6460134
507720.4	6457721
506912.2	6457720
506893	6456890
489715.4	6456895
489740.7	6466643



# **APPENDIX C**

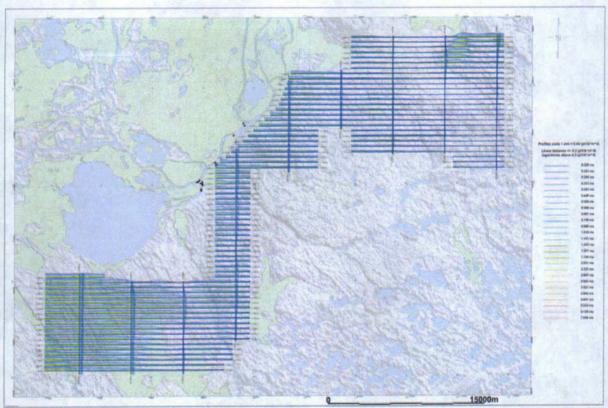
## GEOPHYSICAL MAPS1



VTEM B-Field Z Component Profiles, Time Gates 0.220 to 7.036 ms

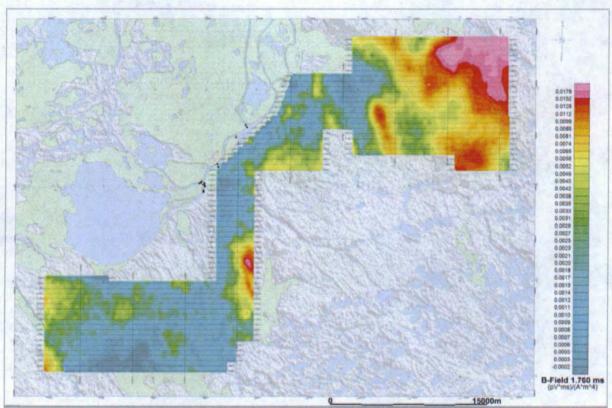
<sup>&</sup>lt;sup>1</sup> Full size geophysical maps are also available in PDF format on the final DVD





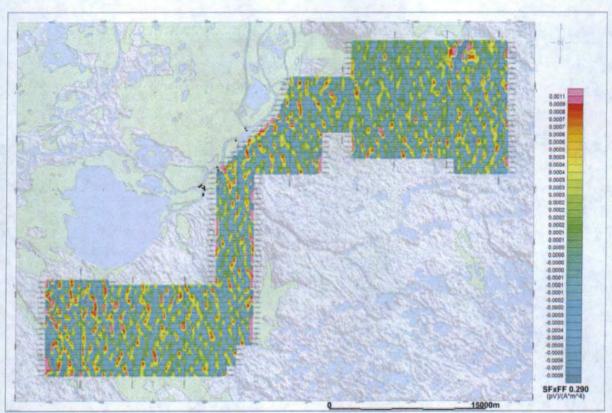
VTEM dB/dt Z Component Profiles, Time Gates 0.220 to 7.036 ms





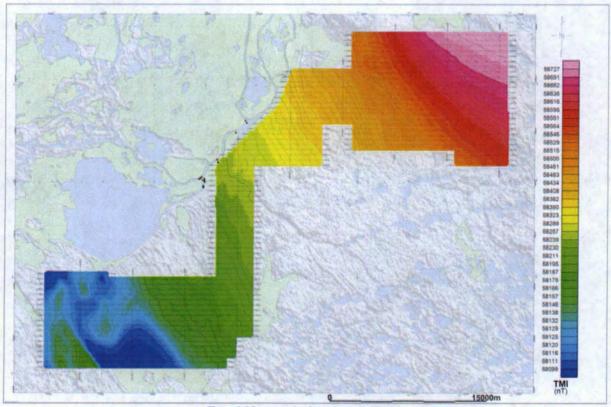
VTEM B-Field Z Component Channel 35, Time Gate 1.760 ms





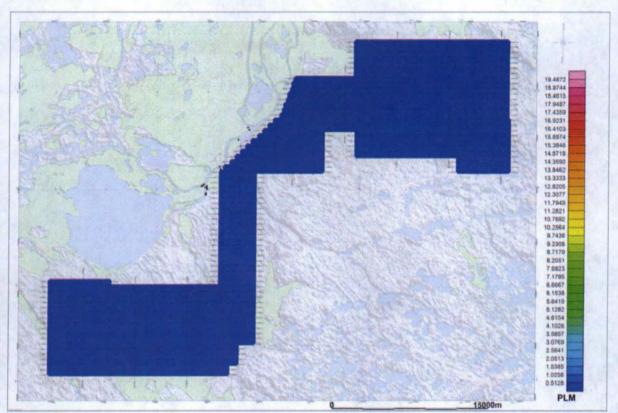
Fraser Filtered dB/dt X Component Channel 22, Time Gate 0.290 ms





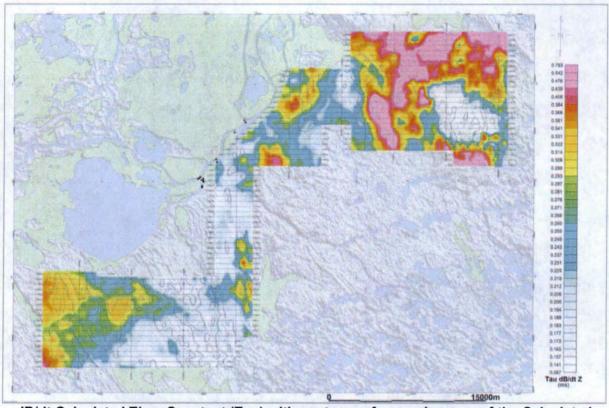
**Total Magnetic Intensity (TMI)** 





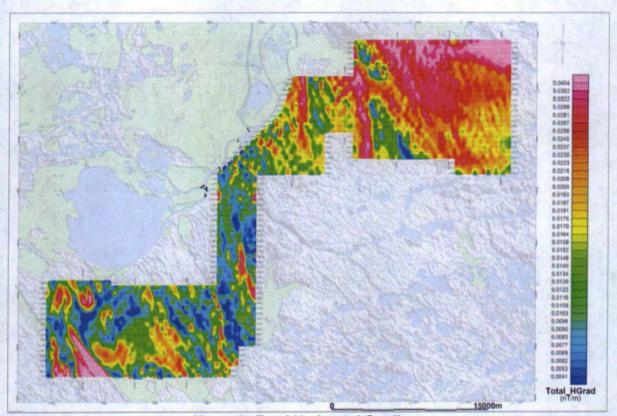
**Power Line Monitor** 





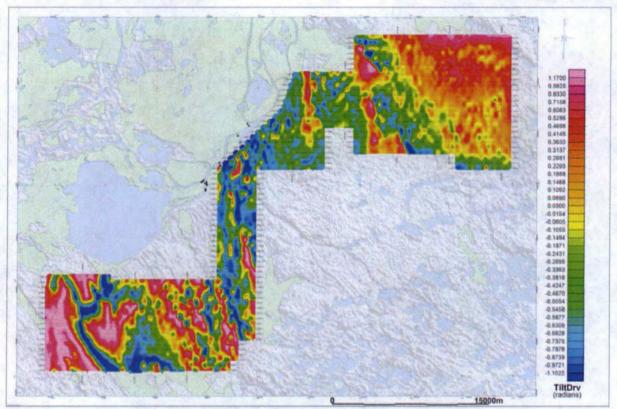
dB/dt Calculated Time Constant (Tau) with contours of anomaly areas of the Calculated Vertical Derivative of TMI





**Magnetic Total Horizontal Gradient** 

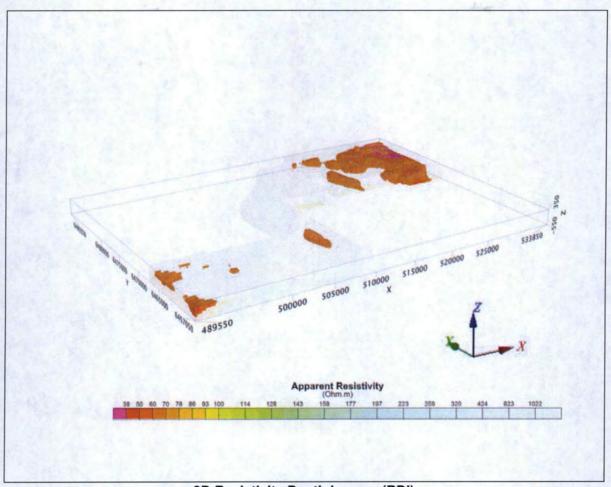




**Magnetic Tilt-Angle Derivative** 



# RESISTIVITY DEPTH IMAGE (RDI) MAPS



3D Resistivity Depth Images (RDI)





**RDI Section - Line 1040** 





**RDI Section - Line 1211** 





RDI Section - Line 1480



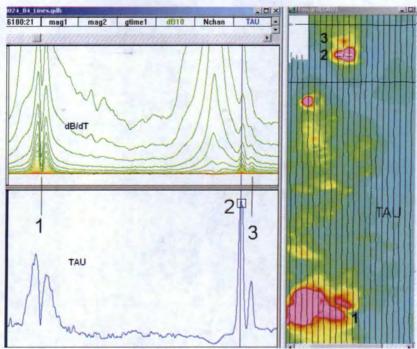


Figure E-5: Map of total TAU and dB/dt profile.

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.

<sup>&</sup>lt;sup>2</sup> by A.Prikhodko



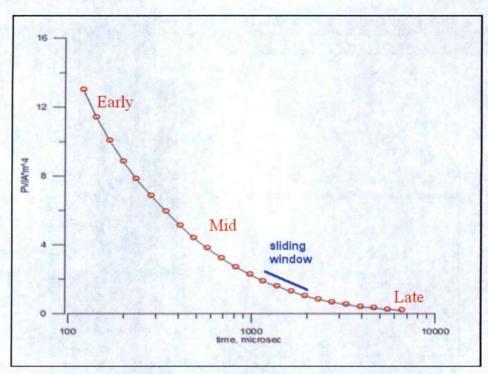


Figure E-6: Typical dB/dt decays of Vtem data

Alexander Prikhodko, PhD, P.Geo **Geotech Ltd.** 

September 2010



#### APPENDIX F

#### 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)<sup>1</sup> 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)

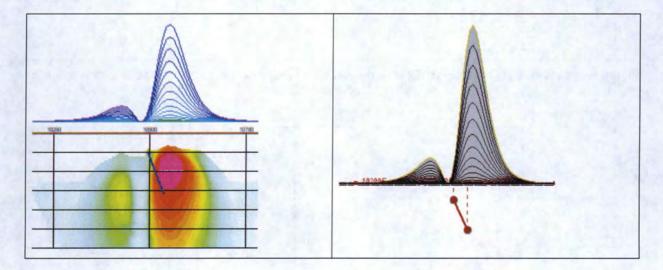


Figure F-1: Maxwell plate model and RDI from the calculated response for conductive "thin" plate (depth 50 m, dip 65 degree, depth extend 100 m).

<sup>&</sup>lt;sup>1</sup> Maxwell A.Meju, 1998, Short Note: A simple method of transient electromagnetic data analysis, Geophysics, **63**, 405–410.



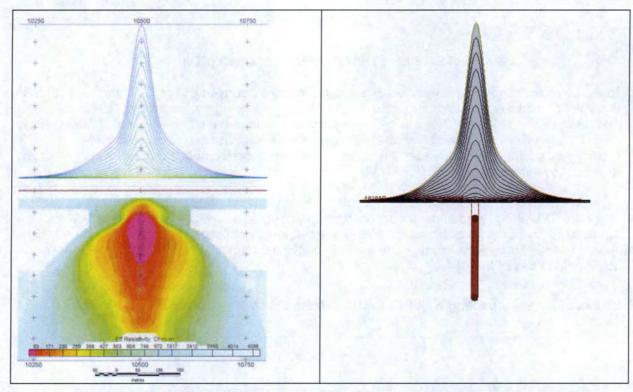


Figure F-2: Maxwell plate model and RDI from the calculated response for "thick" plate 18 m thickness, depth 50 m, depth extend 200 m).

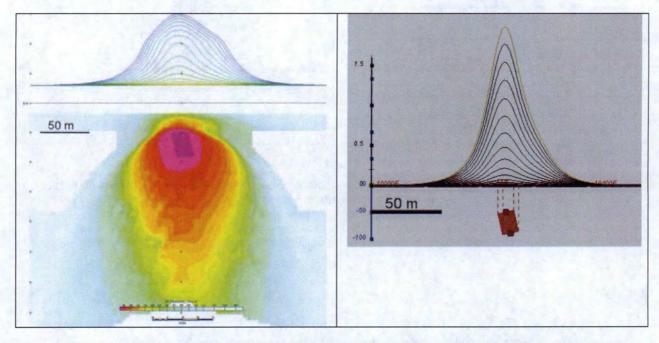


Figure F-3: Maxwell plate model and RDI from the calculated response for bulk ("thick") 100 m length, 40



## m depth extend, 30 m thickness

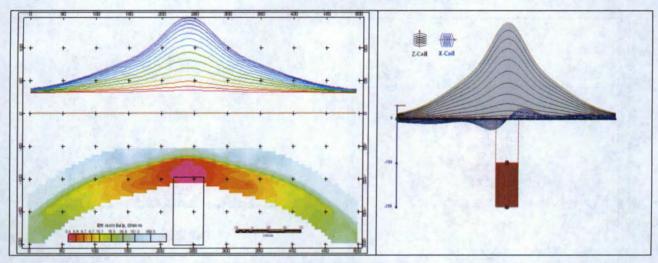
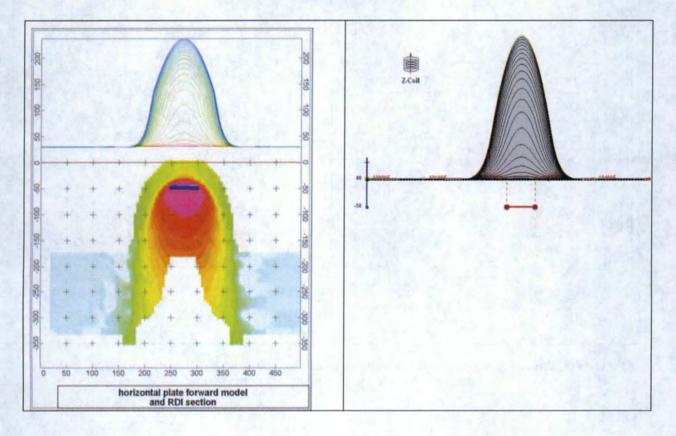
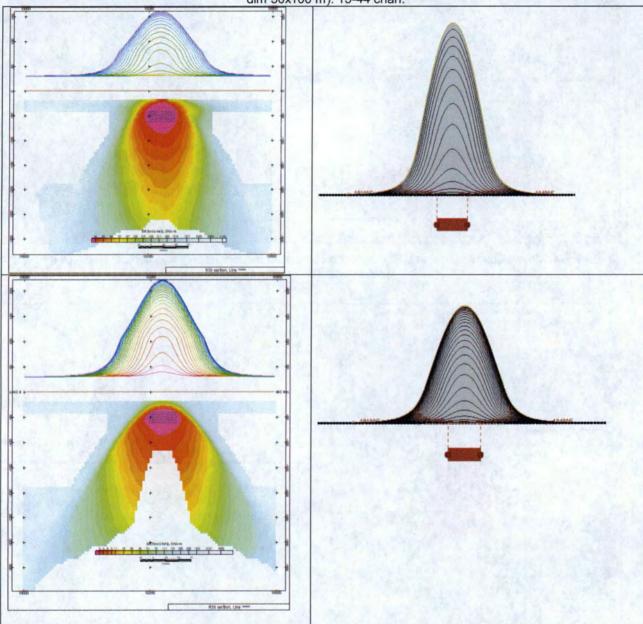


Figure F-4: Maxwell plate model and RDI from the calculated response for "thick" vertical target (depth 100 m, depth extend 100 m). 19-44 chan.





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

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



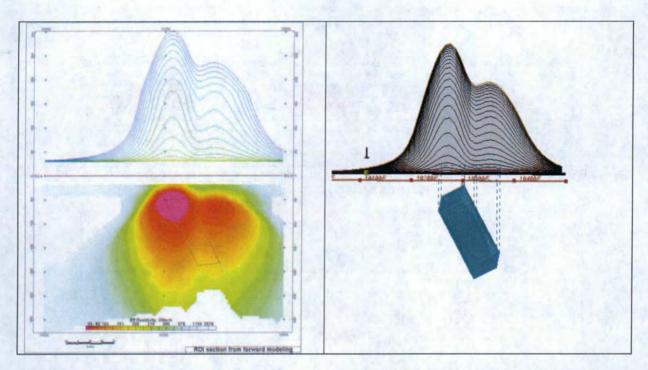
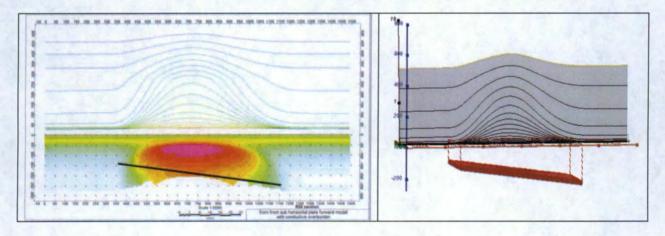


Figure F-7: Maxwell plate model and RDI from the calculated response for inclined thick (50m) plate.

Depth extends 150 m, depth to the target 50 m.



**Figure F-8:** Maxwell plate model and RDI from the calculated response for the long, wide and deep subhorizontal plate (depth 140 m, dim 25x500x800 m) with conductive overburden.



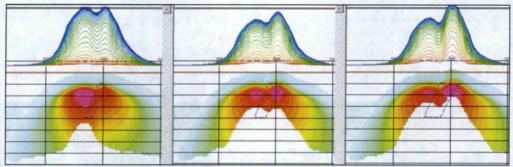


Figure F-9: Maxwell plate models and RDIs from the calculated response for "thick" dipping plates (35, 50, 75 m thickness), depth 50 m, conductivity 2.5 S/m.

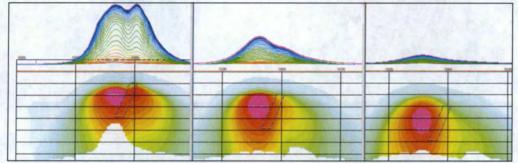
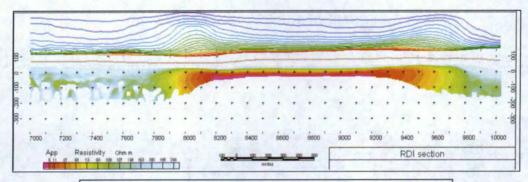


Figure F-10: Maxwell plate models and RDIs from the calculated response for "thick" (35 m thickness) dipping plate on different depth (50, 100, 150 m), conductivity 2.5 S/m.





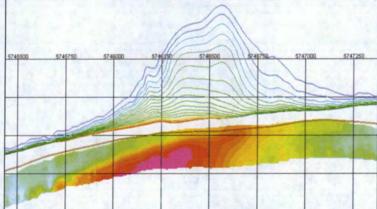
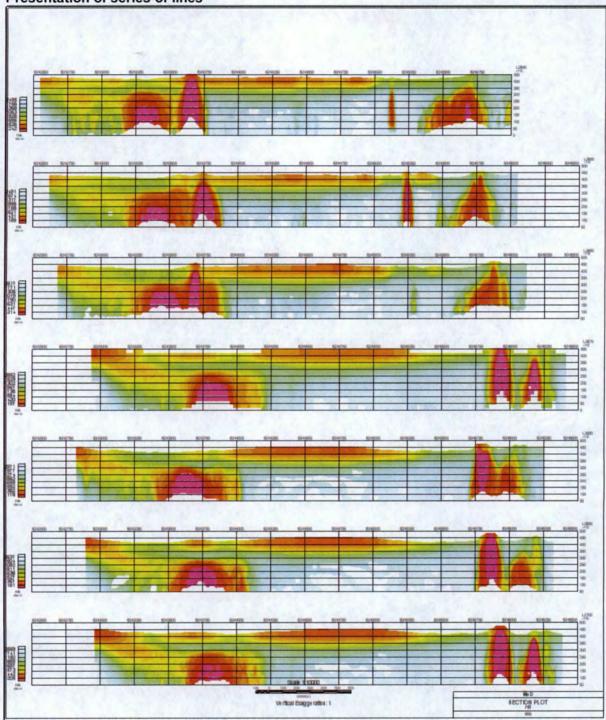


Figure F-11: RDI section for the real horizontal and slightly dipping conductive layers

#### FORMS OF RDI PRESENTATION

#### Presentation of series of lines

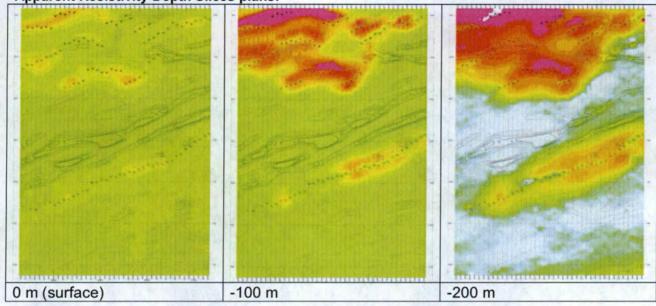




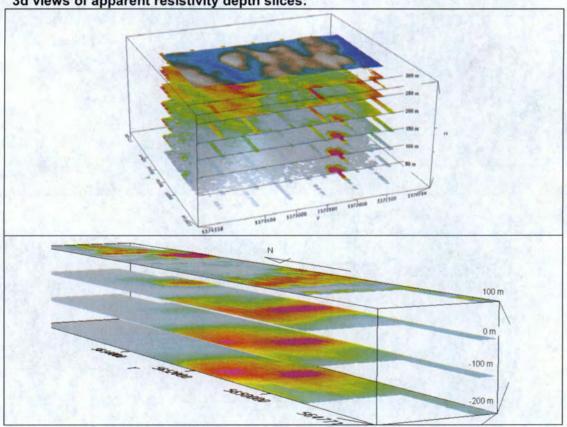
3d presentation of RDIs 546684 x 545796



**Apparent Resistivity Depth Slices plans:** 



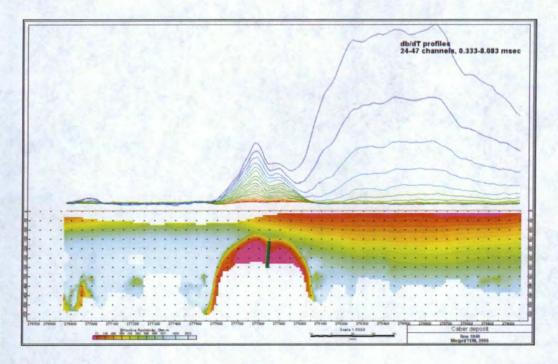
3d views of apparent resistivity depth slices:



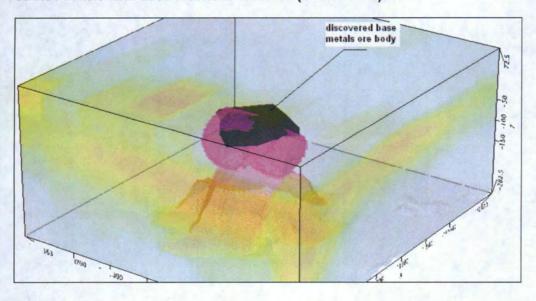


#### Real base metal targets in comparison with RDIs:

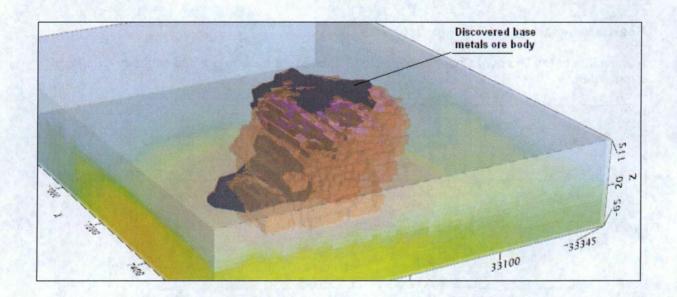
RDI section of the line over Caber deposit ("thin" subvertical plate target and conductive overburden.



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







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



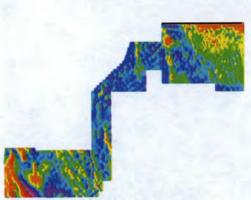
Appendix G Resistivity Depth Images



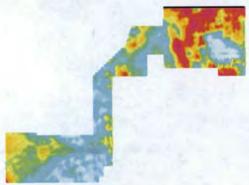


### Resistivity Depth Image (RDI) for Line 1000 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

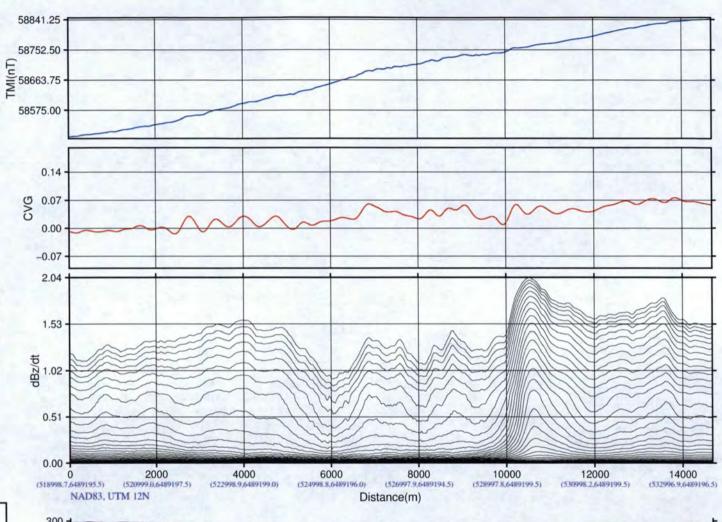


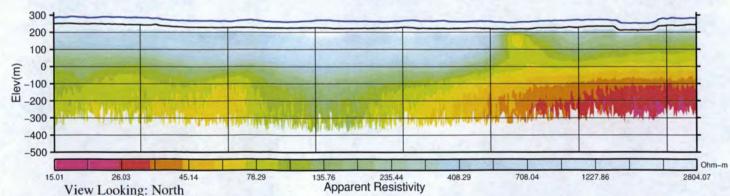
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

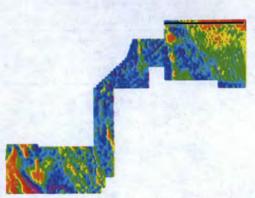




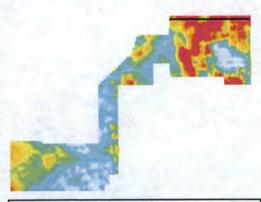


# Resistivity Depth Image (RDI) for Line 1010 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

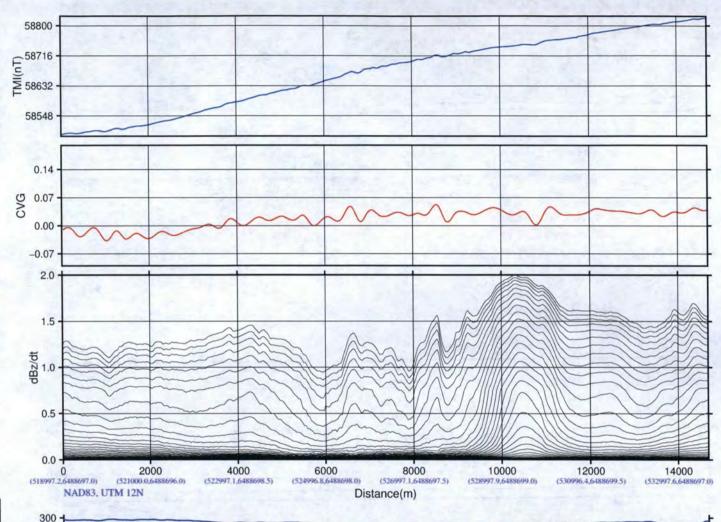


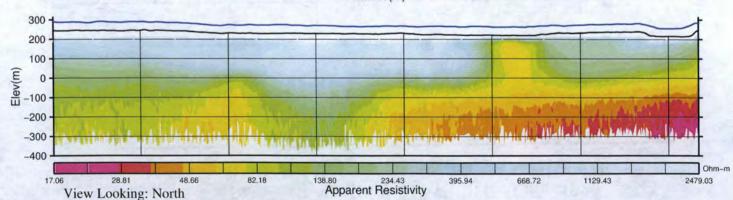
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

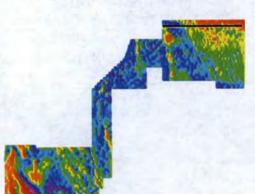






# Resistivity Depth Image (RDI) for Line 1020 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

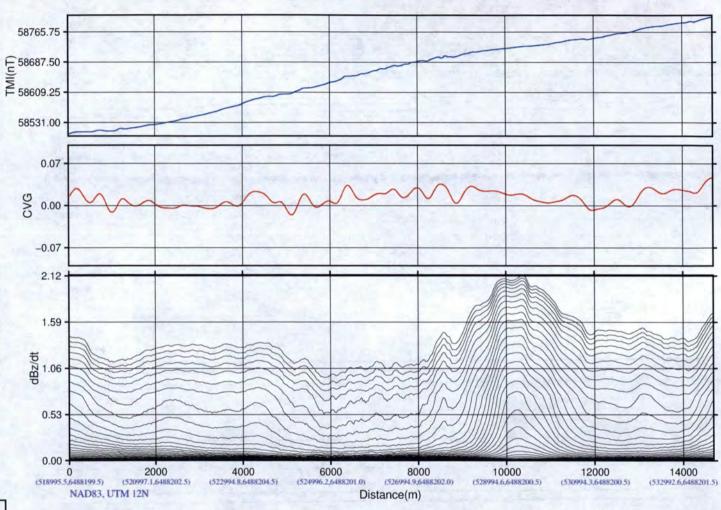


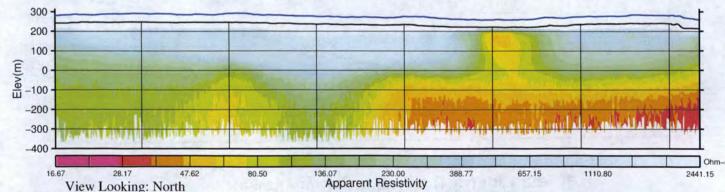
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

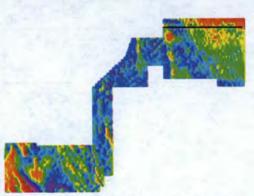




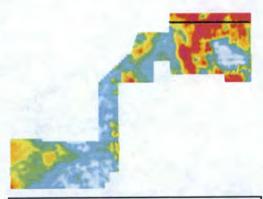


# Resistivity Depth Image (RDI) for Line 1030 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



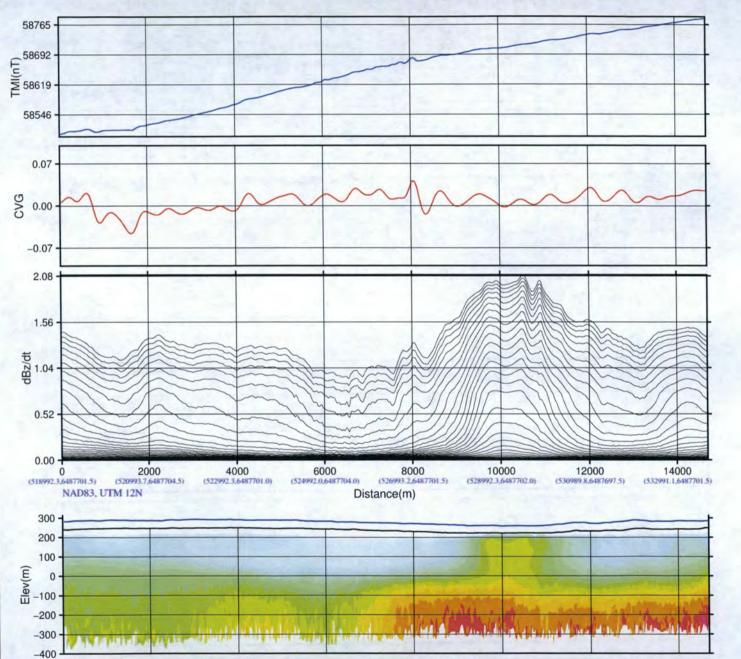
dB/dt Decay Constant (Tau)



Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

2014/5/15



Apparent Resistivity

410.15

694.19

1174.92

49.98

84.60

29.53

View Looking: North

17.45

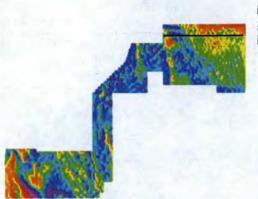
Ohm-m

2587.05



#### Resistivity Depth Image (RDI) for Line 1040 Client: Declan Resources Inc. Block: Maybelle North





dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

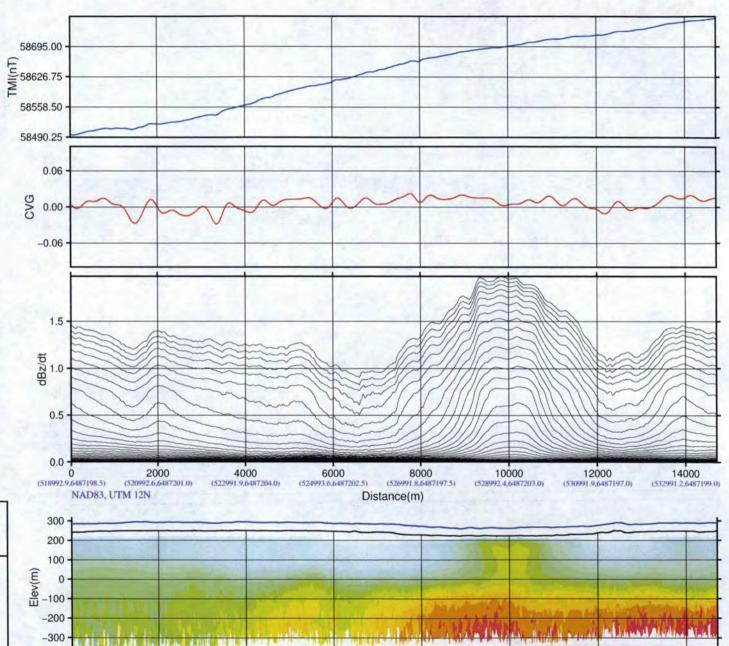
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

2014/5/15

-400

31.70

View Looking: North



3.77 260.31 Apparent Resistivity 440.65

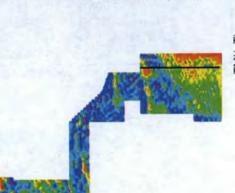
745.92

2781.04

90.84

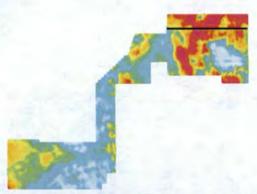


# Resistivity Depth Image (RDI) for Line 1050 Client: Declan Resources Inc. Block: Maybelle North



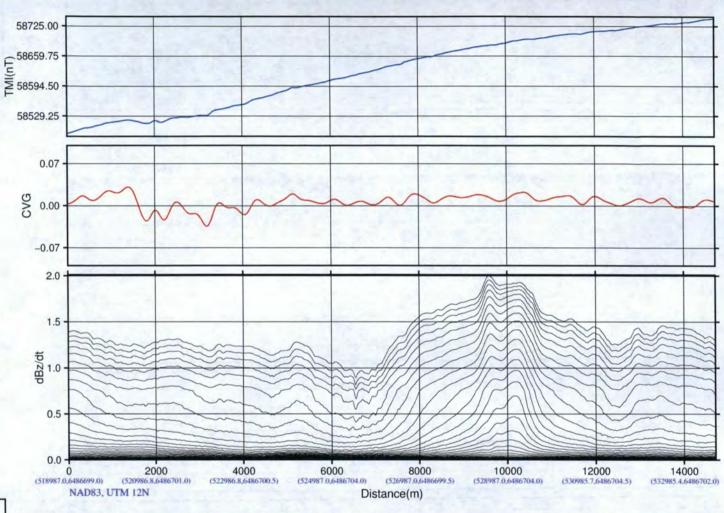
Calculated Vertical Gradient (CVG)

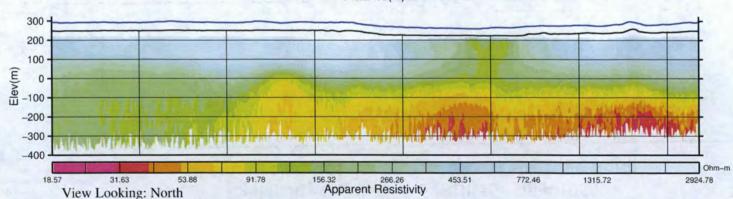
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

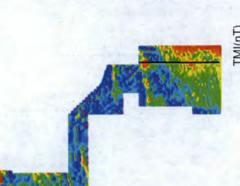
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca





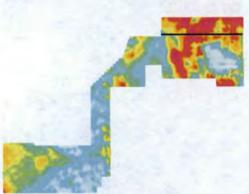


#### Resistivity Depth Image (RDI) for Line 1060 Client: Declan Resources Inc. Block: Maybelle North



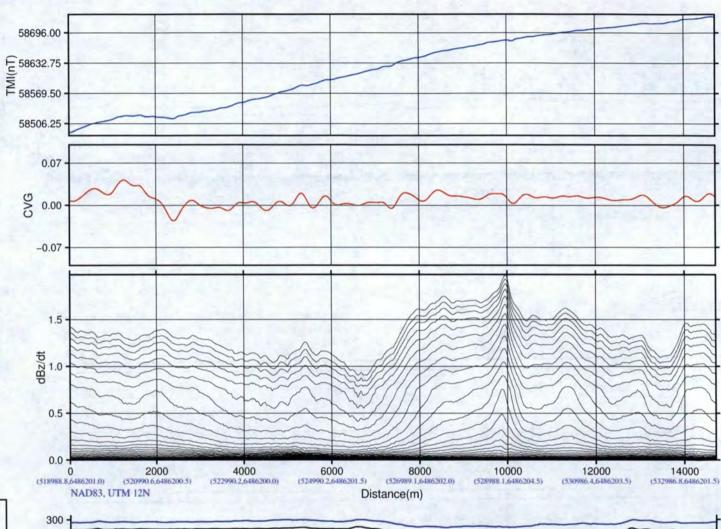
Calculated Vertical Gradient (CVG)

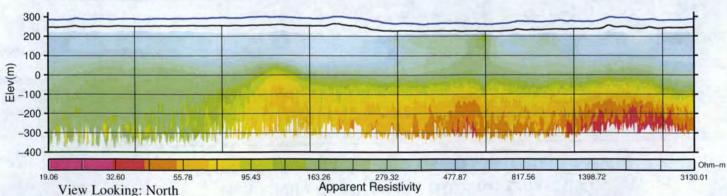
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

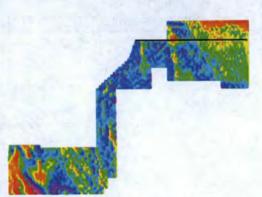






# Resistivity Depth Image (RDI) for Line 1070 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

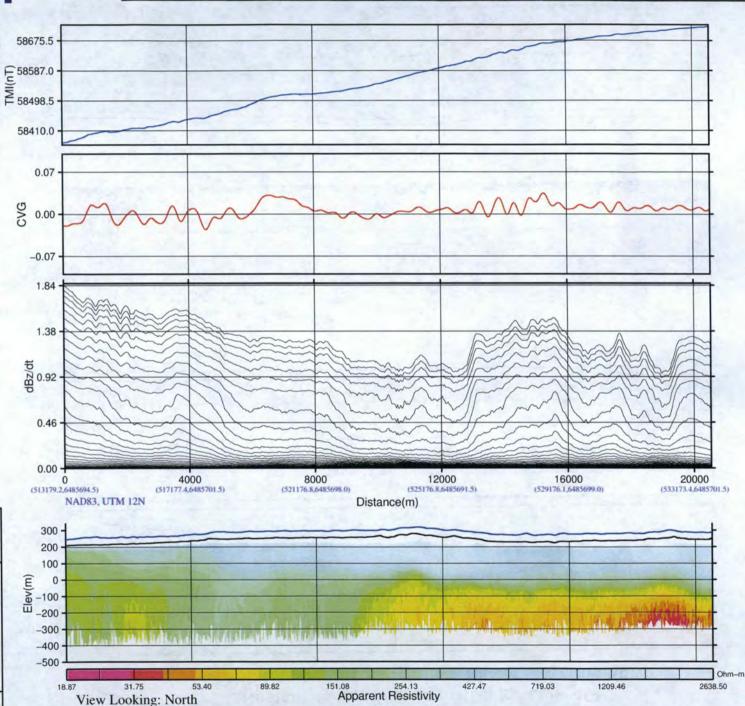


dB/dt Decay Constant (Tau)



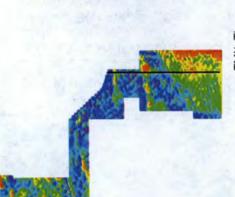
Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



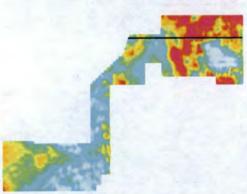


#### Resistivity Depth Image (RDI) for Line 1080 Client: Declan Resources Inc. Block: Maybelle North



Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

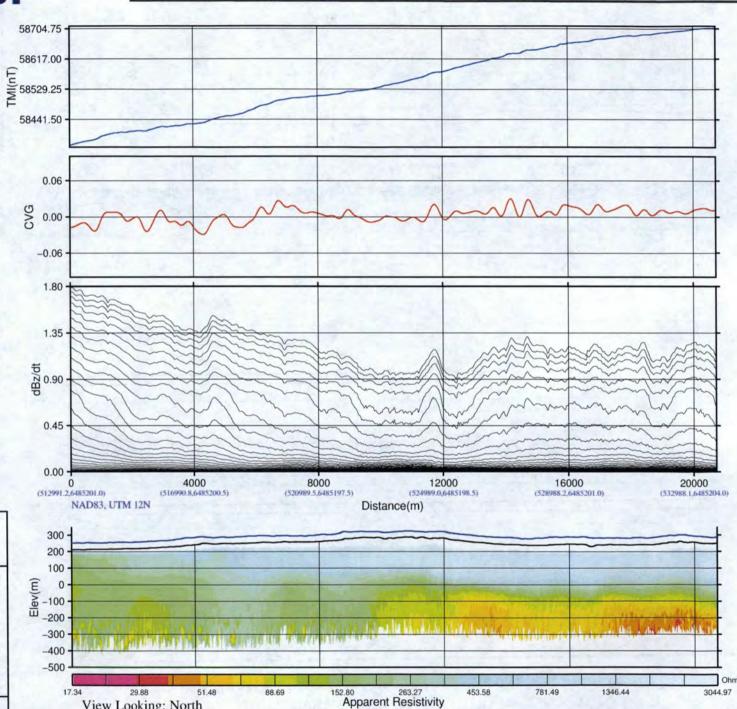
VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15

29.88

View Looking: North

88.69



453.58

781.49

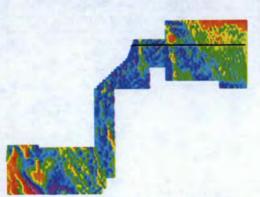
1346.44

3044.97



# Resistivity Depth Image (RDI) for Line 1090 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

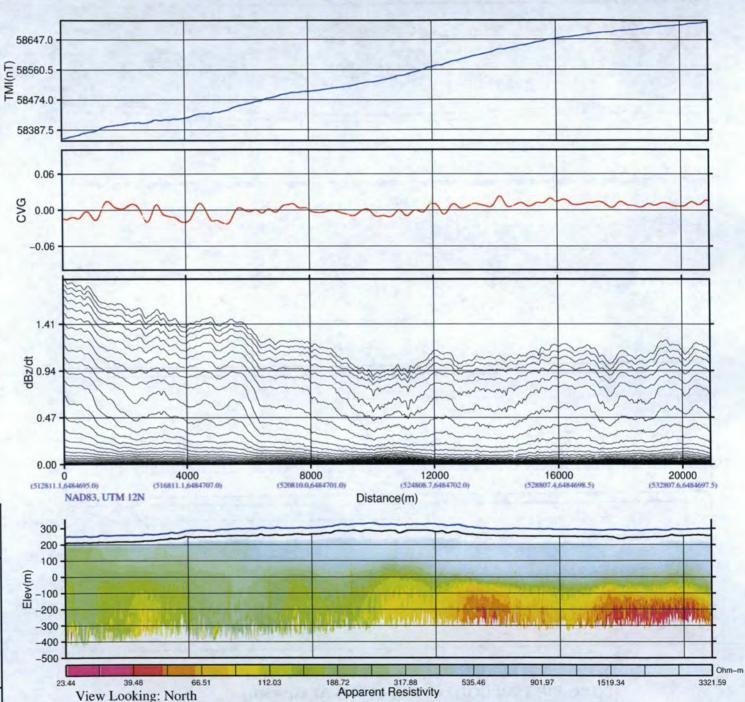


dB/dt Decay Constant (Tau)



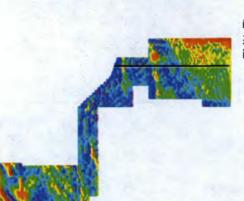
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus (Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



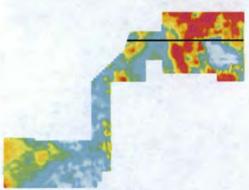


# Resistivity Depth Image (RDI) for Line 1100 Client: Declan Resources Inc. Block: Maybelle North



Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

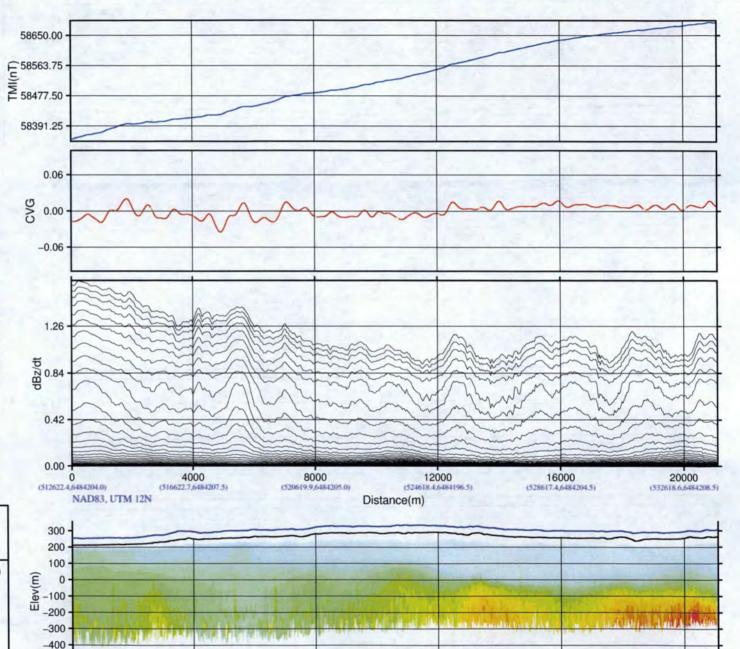
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

-500

30.03

View Looking: North

2014/5/15



152.96 263.18 Apparent Resistivity

452.81

779.09

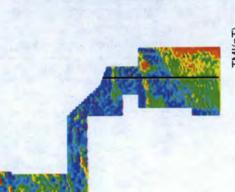
1340.48

3025.27

88.90



### Resistivity Depth Image (RDI) for Line 1110 Client: Declan Resources Inc. Block: Maybelle North



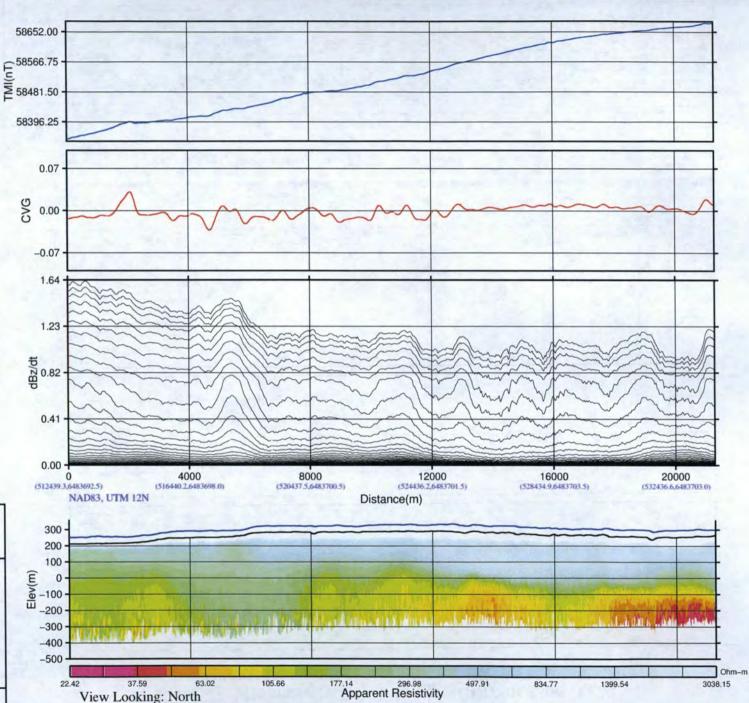
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



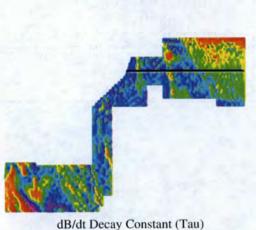
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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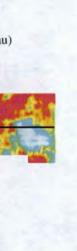


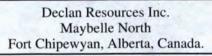


### Resistivity Depth Image (RDI) for Line 1120 Client: Declan Resources Inc. Block: Maybelle North

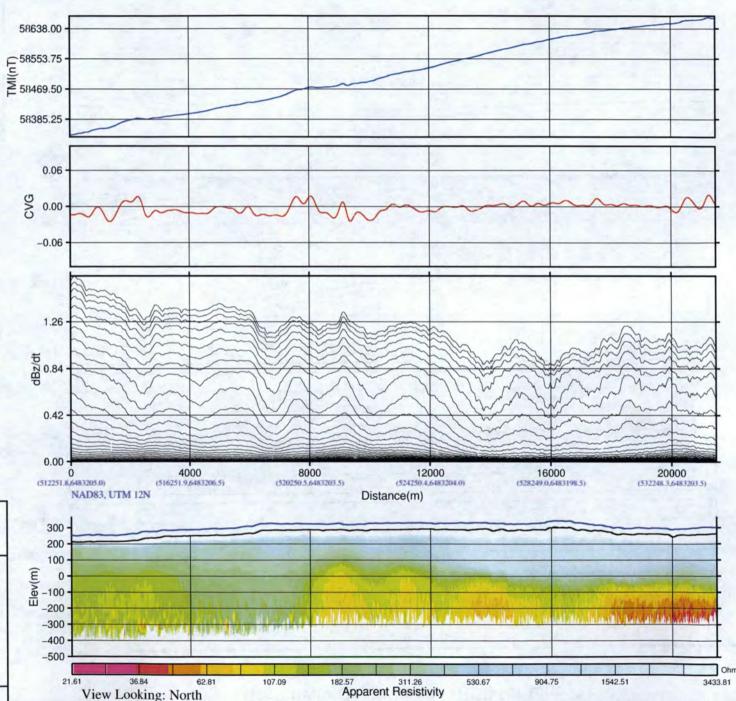


Calculated Vertical Gradient (CVG)





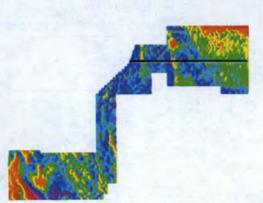
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



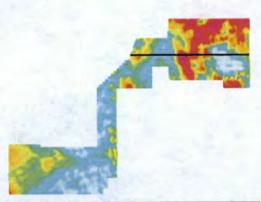


### Resistivity Depth Image (RDI) for Line 1130 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

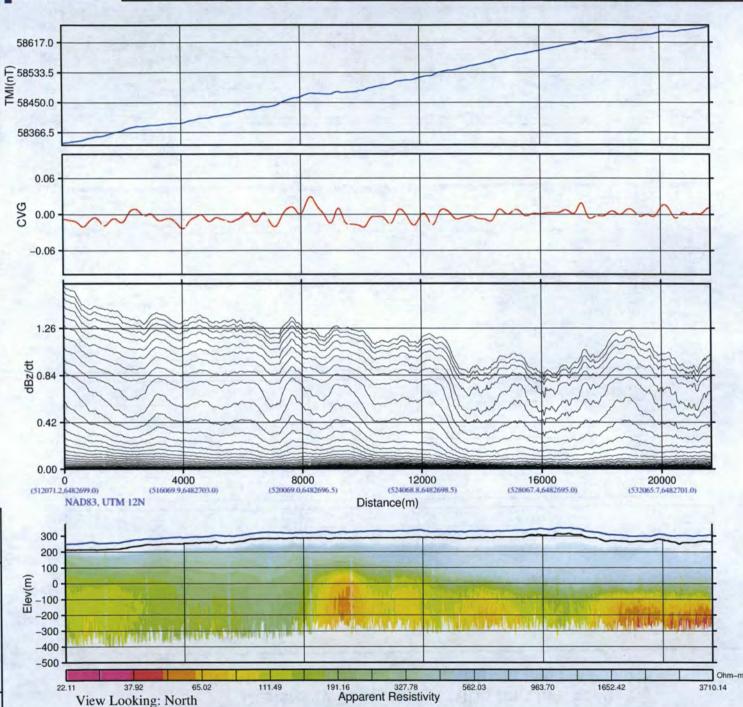


dB/dt Decay Constant (Tau)



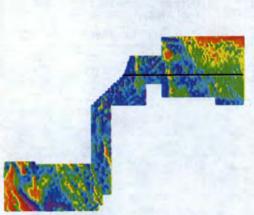
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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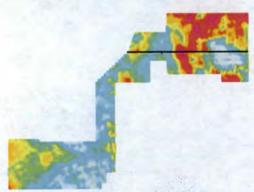


# Resistivity Depth Image (RDI) for Line 1140 Client: Declan Resources Inc. Block: Maybelle North



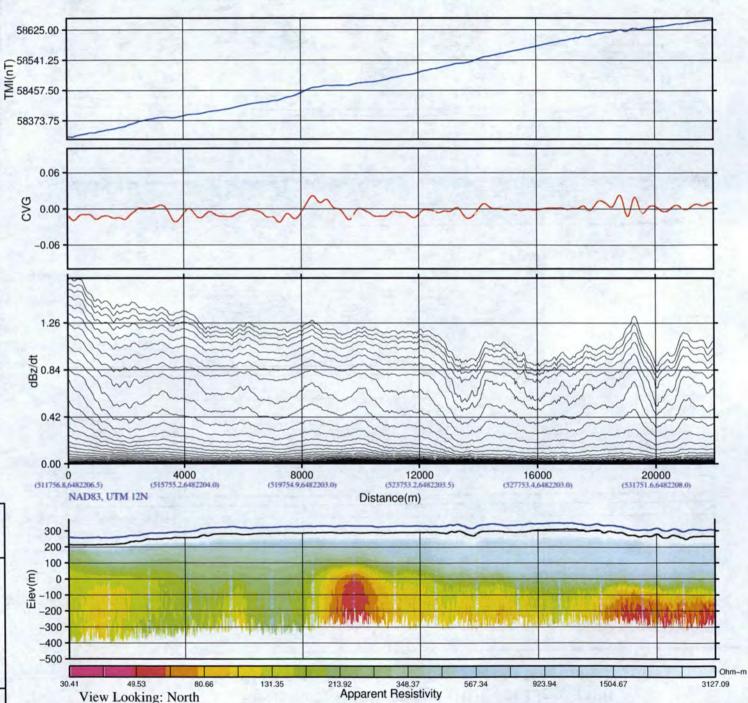
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

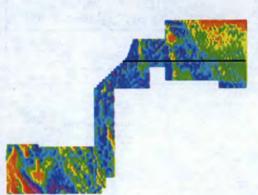
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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#### Resistivity Depth Image (RDI) for Line 1150 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

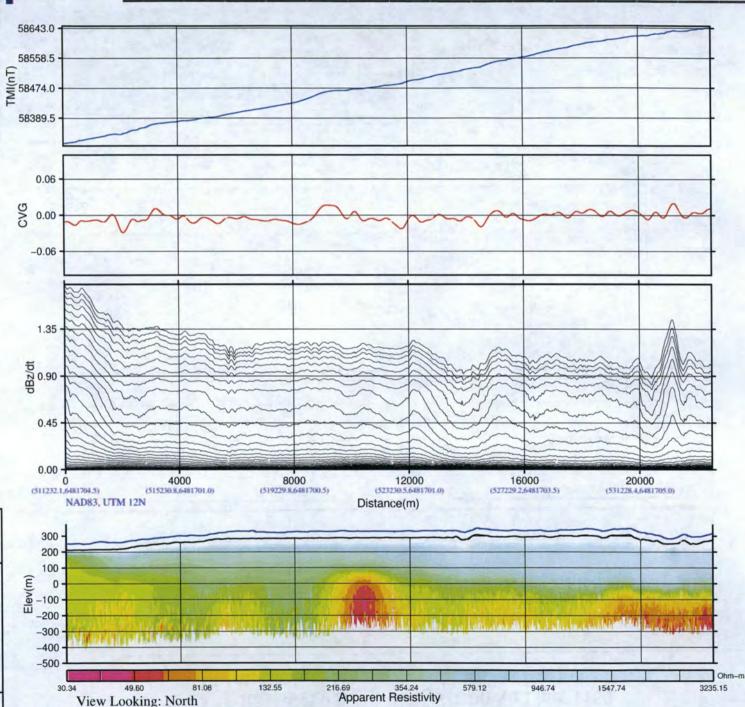


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

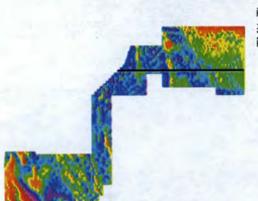
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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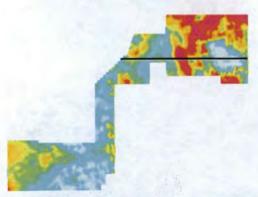


### Resistivity Depth Image (RDI) for Line 1160 Client: Declan Resources Inc. Block: Maybelle North



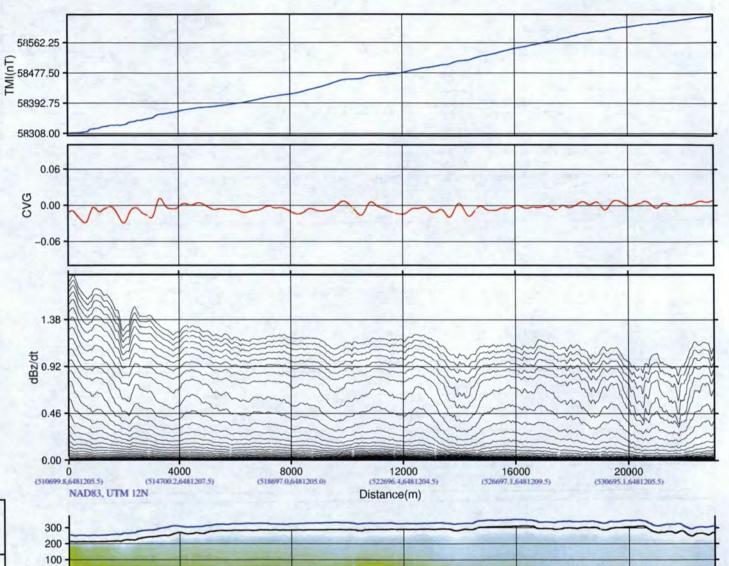


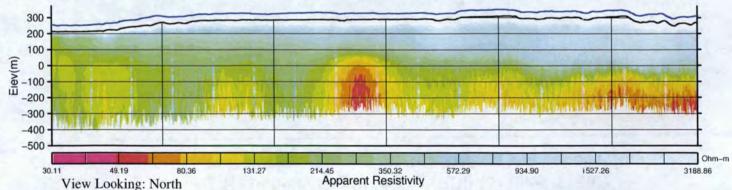
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

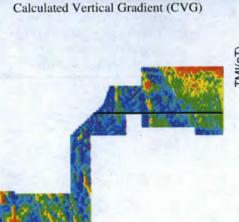
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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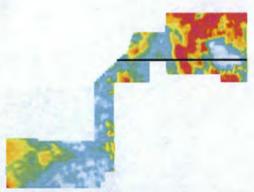




# Resistivity Depth Image (RDI) for Line 1170 Client: Declan Resources Inc. Block: Maybelle North

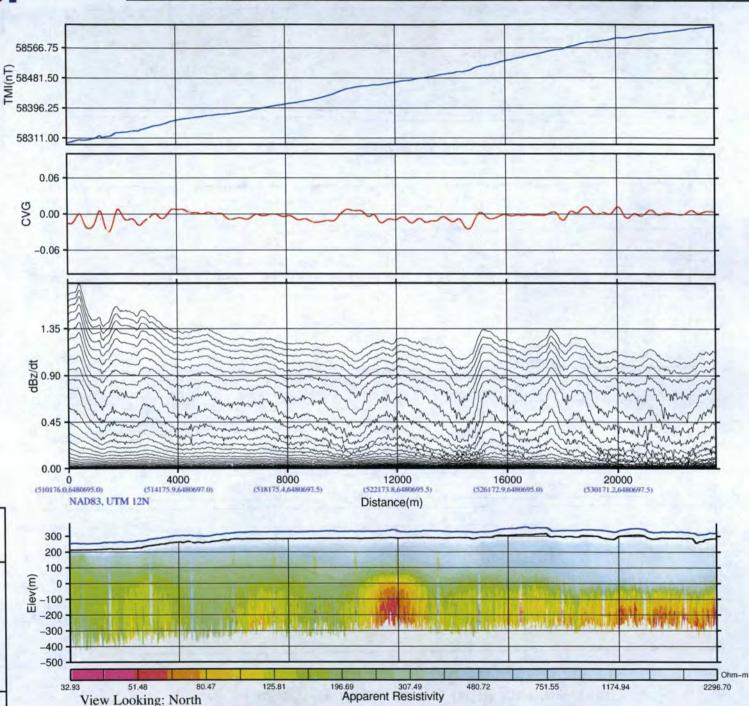


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

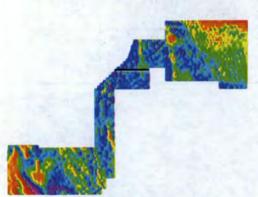
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



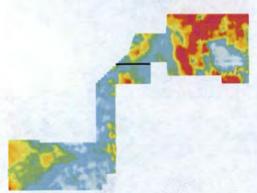


#### Resistivity Depth Image (RDI) for Line 1180 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

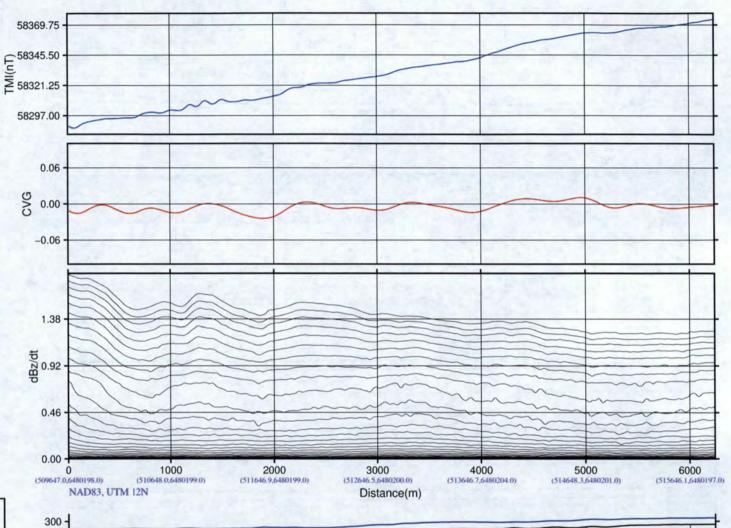


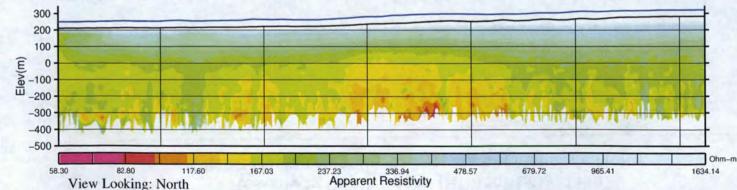
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

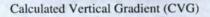
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

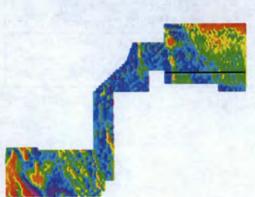




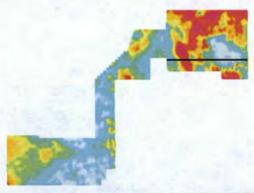


#### Resistivity Depth Image (RDI) for Line 1181 Client: Declan Resources Inc. Block: Maybelle North



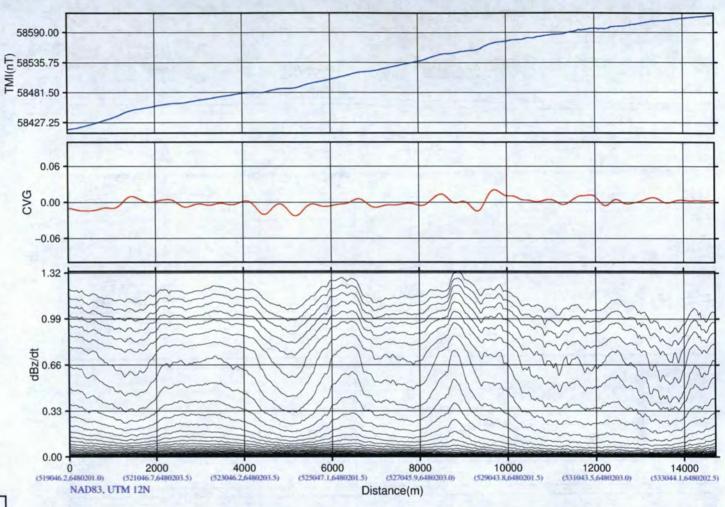


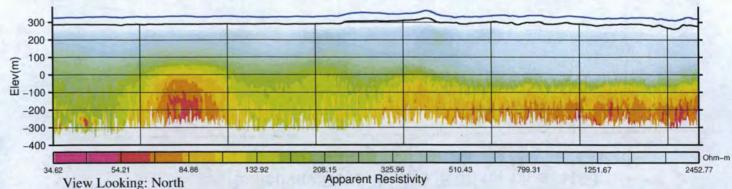
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
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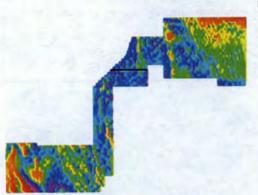




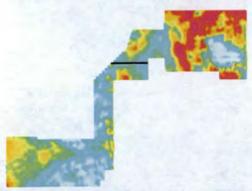


#### Resistivity Depth Image (RDI) for Line 1190 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



dB/dt Decay Constant (Tau)

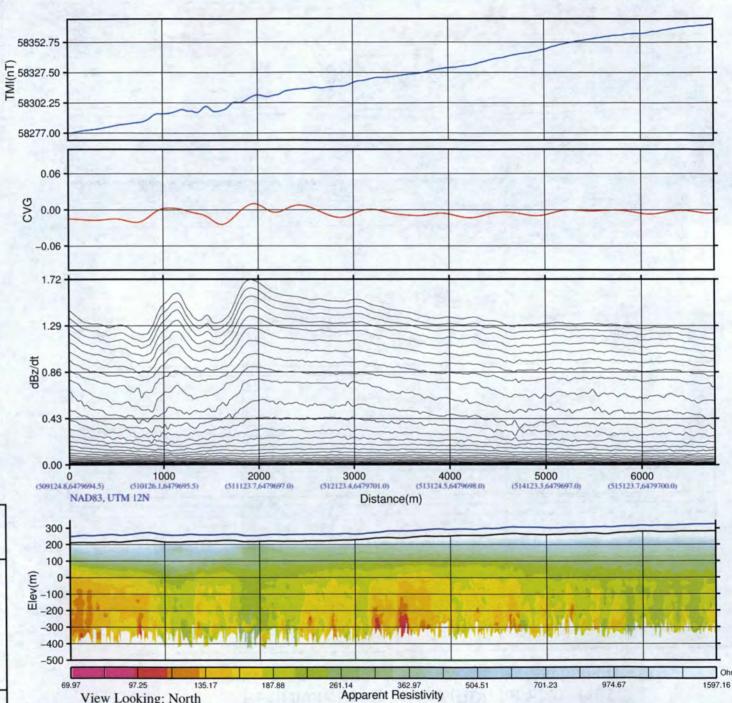


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15

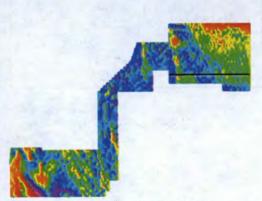
View Looking: North



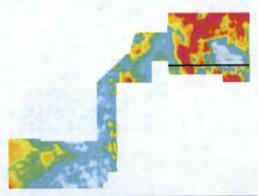


# Resistivity Depth Image (RDI) for Line 1191 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

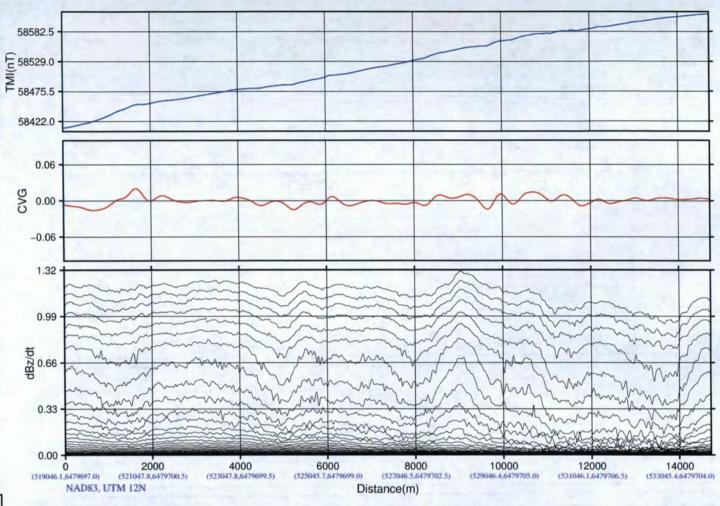


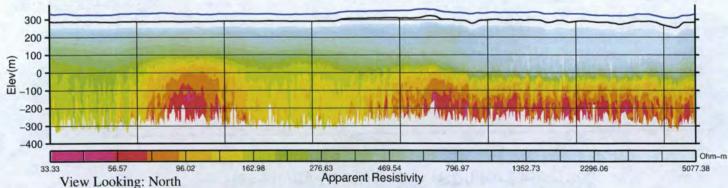
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

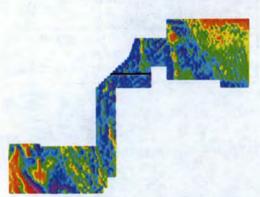




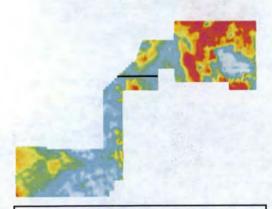


# Resistivity Depth Image (RDI) for Line 1200 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

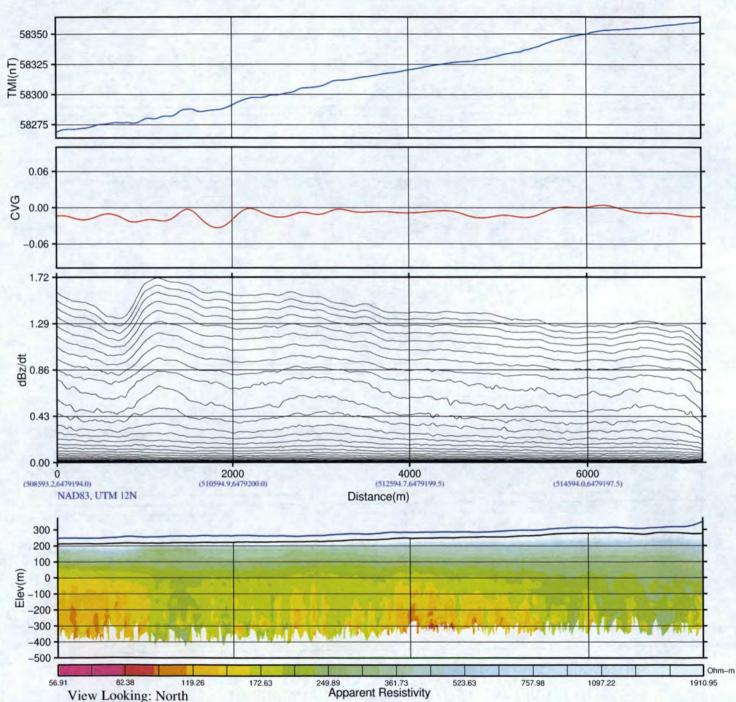


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

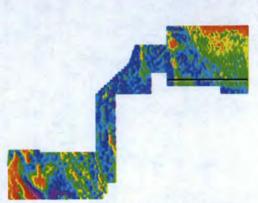
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



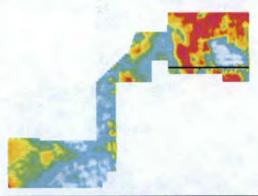


#### Resistivity Depth Image (RDI) for Line 1201 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

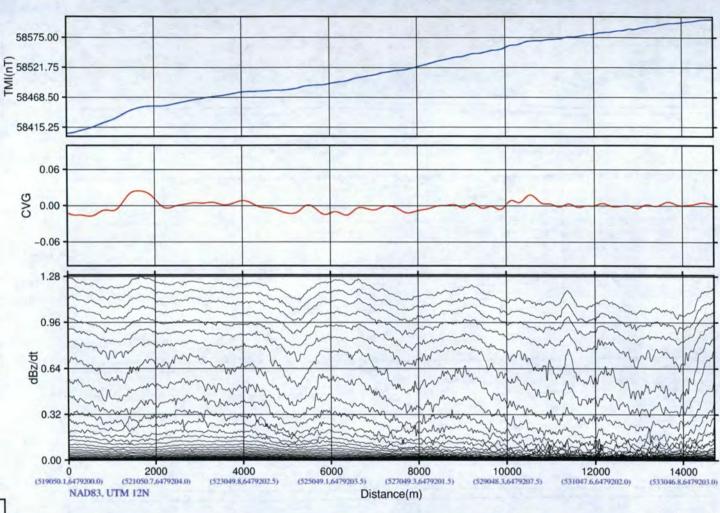


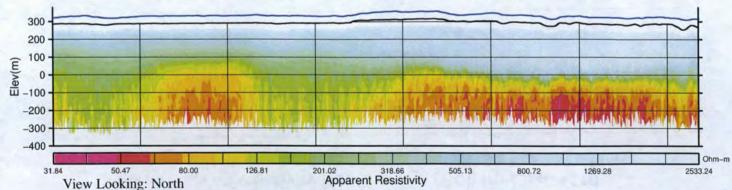
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

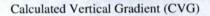
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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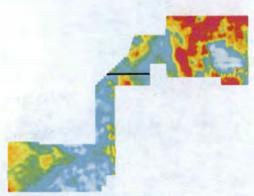


# Resistivity Depth Image (RDI) for Line 1210 Client: Declan Resources Inc. Block: Maybelle North



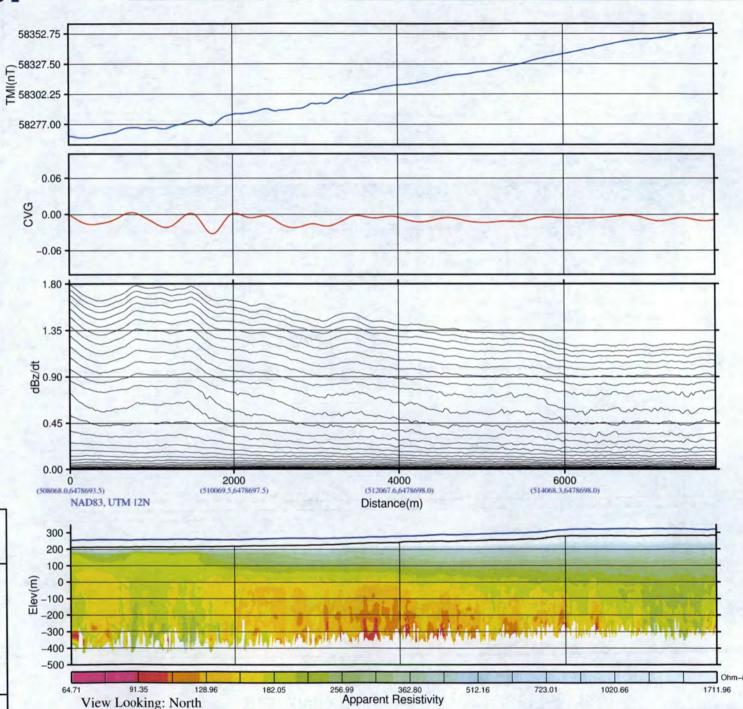


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

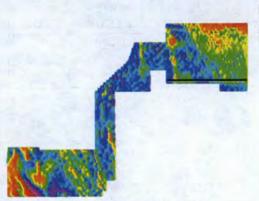
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



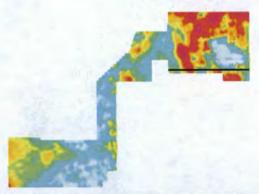


# Resistivity Depth Image (RDI) for Line 1211 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

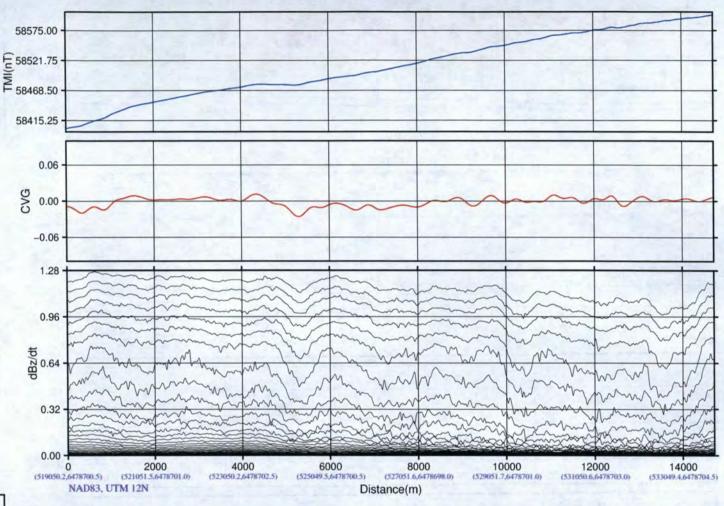


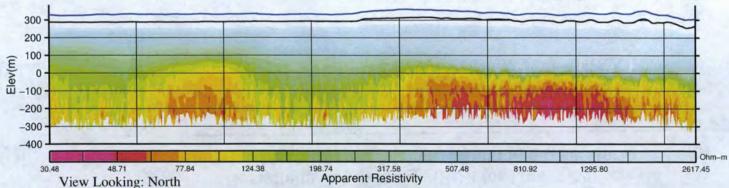
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

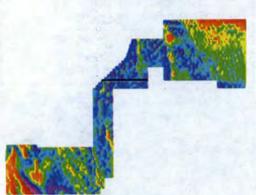




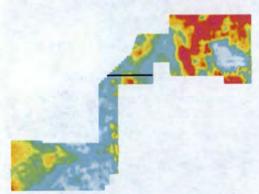


# Resistivity Depth Image (RDI) for Line 1220 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

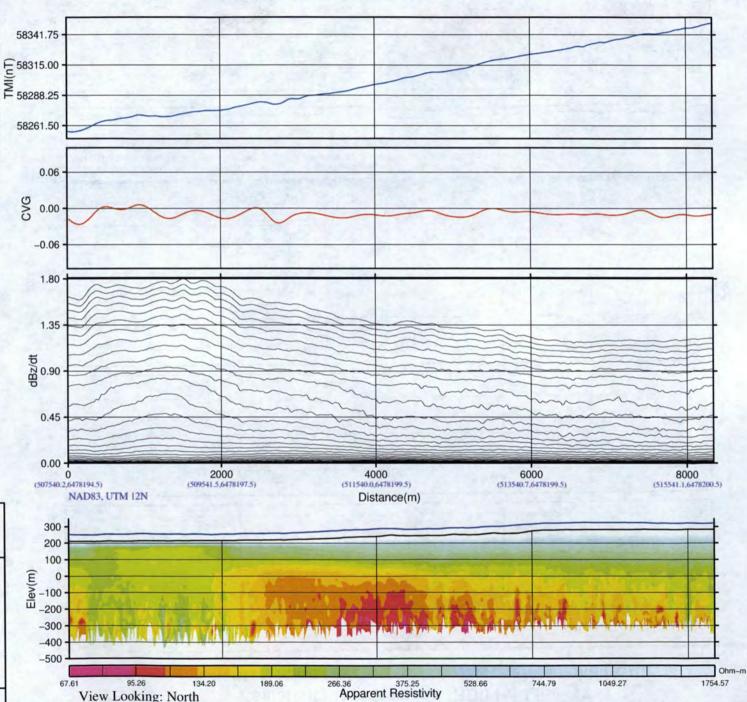


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

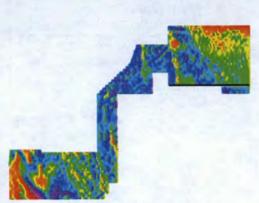
VTEM System: VTEMplus (Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



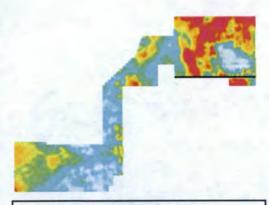


# Resistivity Depth Image (RDI) for Line 1221 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

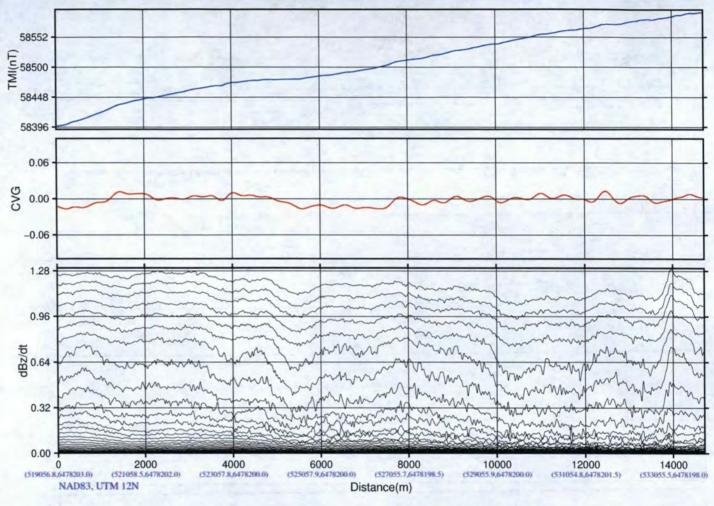


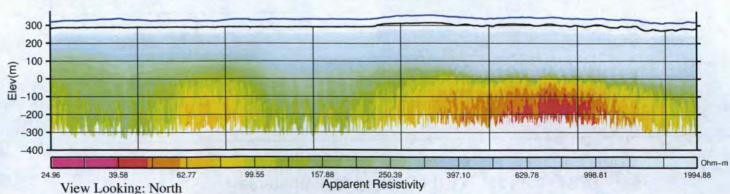
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

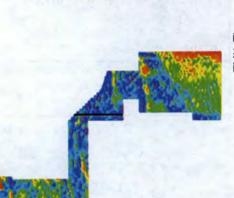
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca





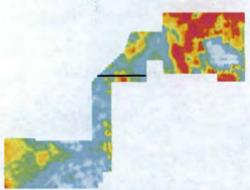


#### Resistivity Depth Image (RDI) for Line 1230 Client: Declan Resources Inc. Block: Maybelle North



Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

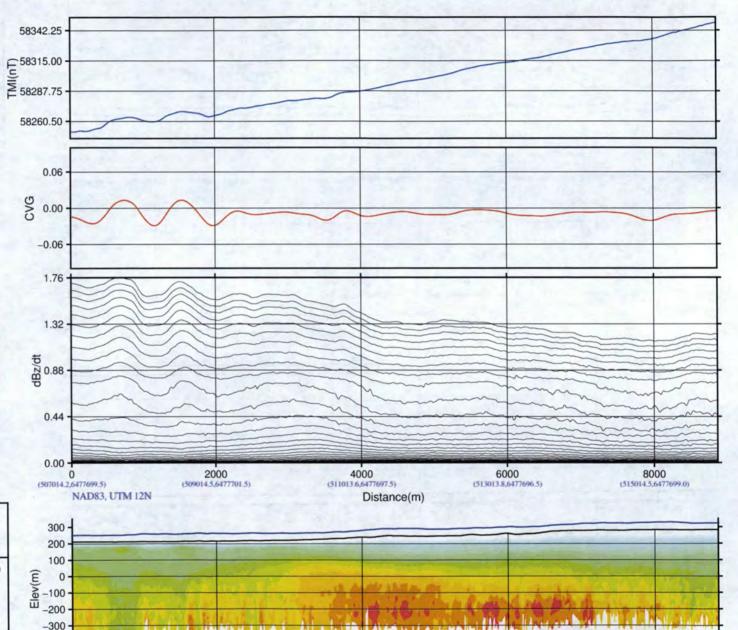
-400

-500

82.19

View Looking: North

2014/5/15



Apparent Resistivity

717.63

500.10

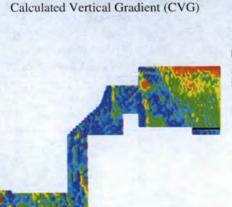
1029.78

169.25

Ohm-m



#### Resistivity Depth Image (RDI) for Line 1231 Client: Declan Resources Inc. Block: Maybelle North

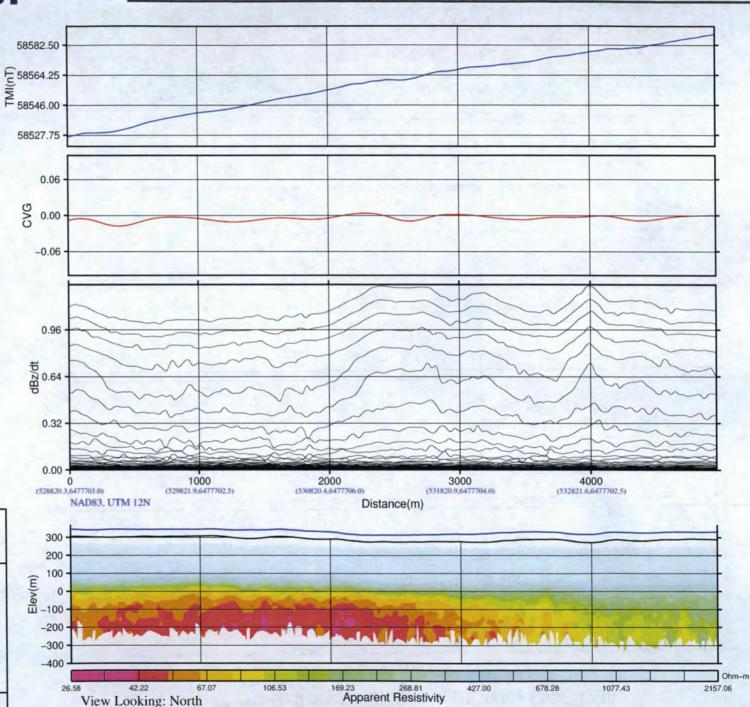


dB/dt Decay Constant (Tau)



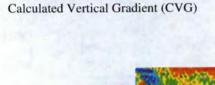
Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

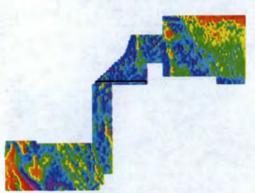
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca





# Resistivity Depth Image (RDI) for Line 1240 Client: Declan Resources Inc. Block: Maybelle North



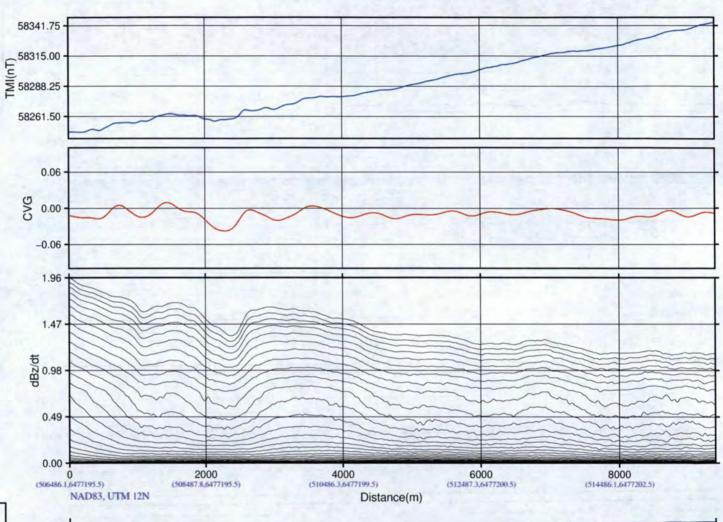


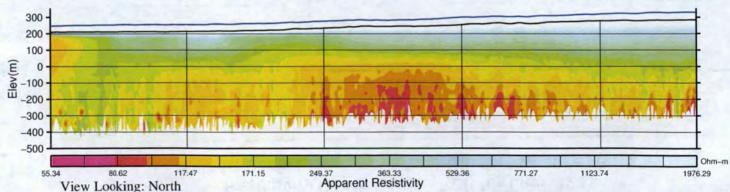
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

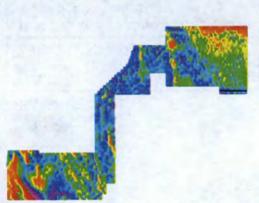






# Resistivity Depth Image (RDI) for Line 1241 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

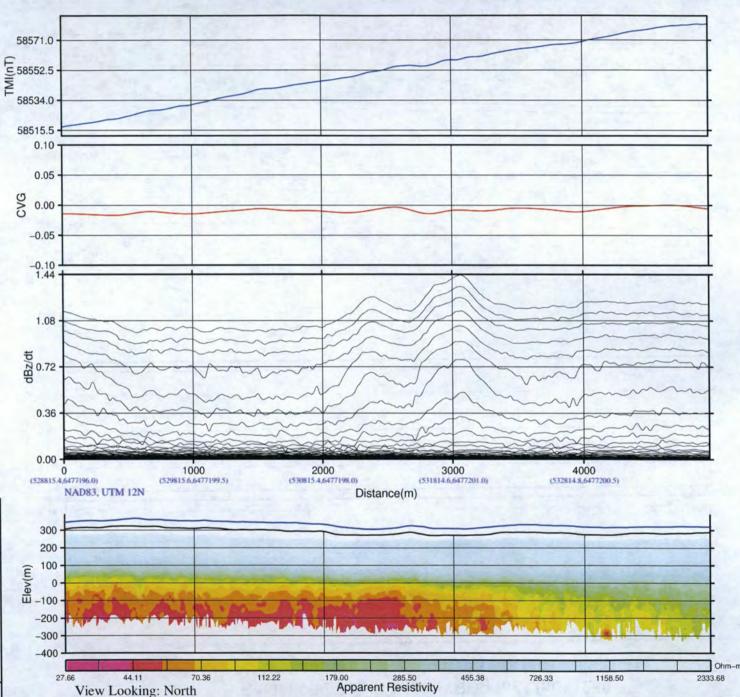


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

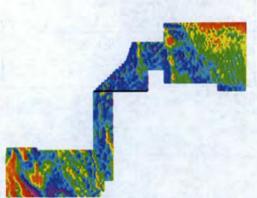
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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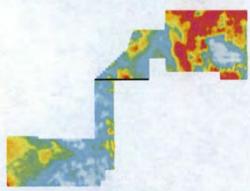


## Resistivity Depth Image (RDI) for Line 1250 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus (Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

2014/5/15

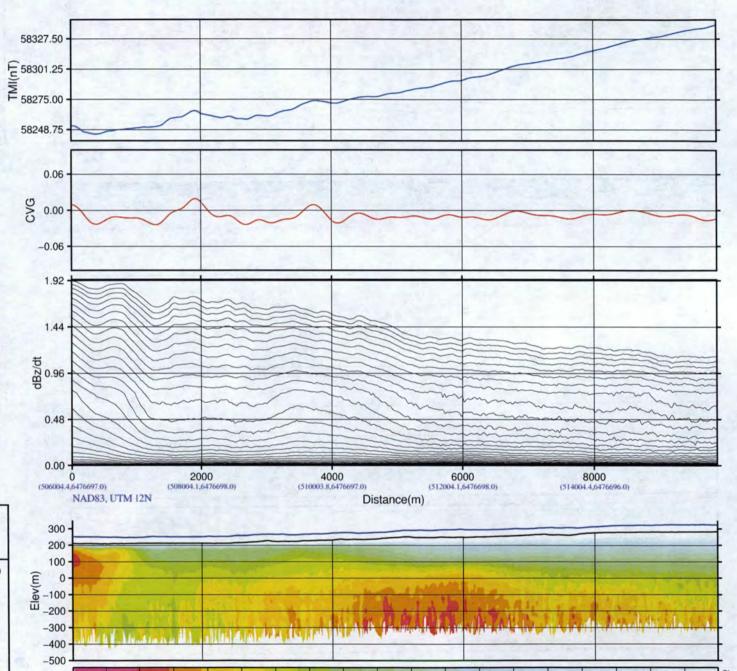
51.92

75.86

View Looking: North

110.85

161.98



Apparent Resistivity

505.37

738.46

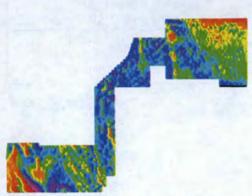
1079.06

1906.01

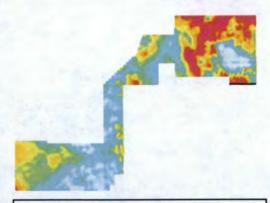


# Resistivity Depth Image (RDI) for Line 1251 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

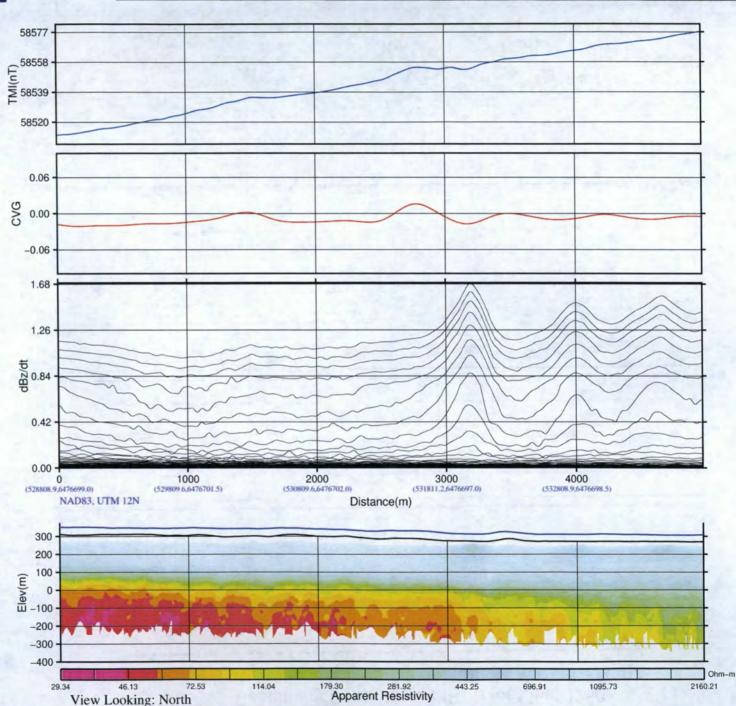


dB/dt Decay Constant (Tau)



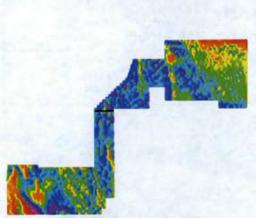
Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



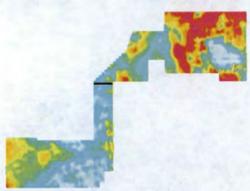


# Resistivity Depth Image (RDI) for Line 1260 Client: Declan Resources Inc. Block: Maybelle North



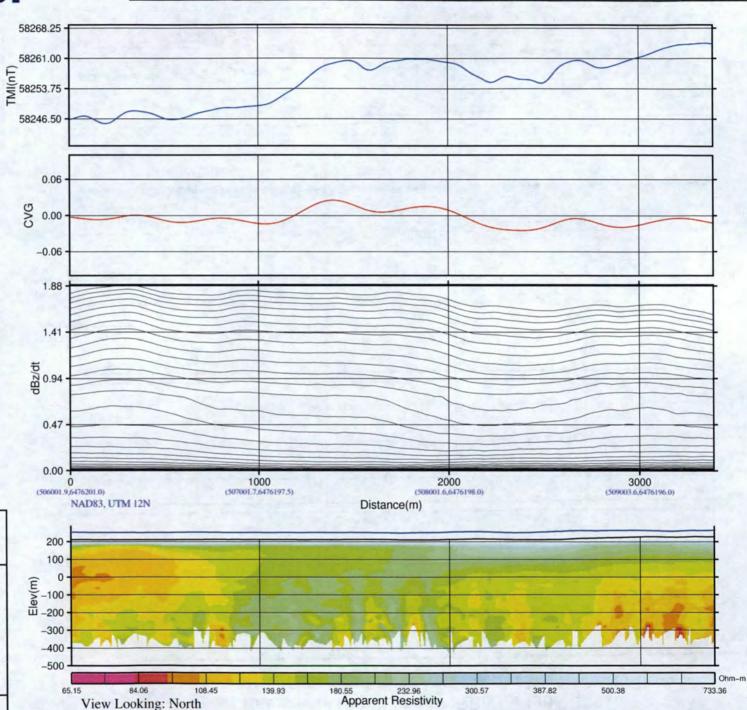
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



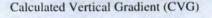
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

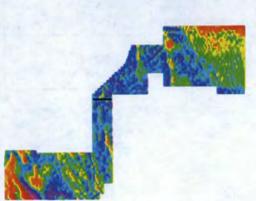
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



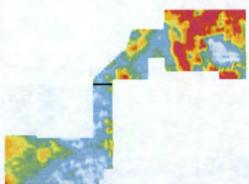


# Resistivity Depth Image (RDI) for Line 1270 Client: Declan Resources Inc. Block: Maybelle North





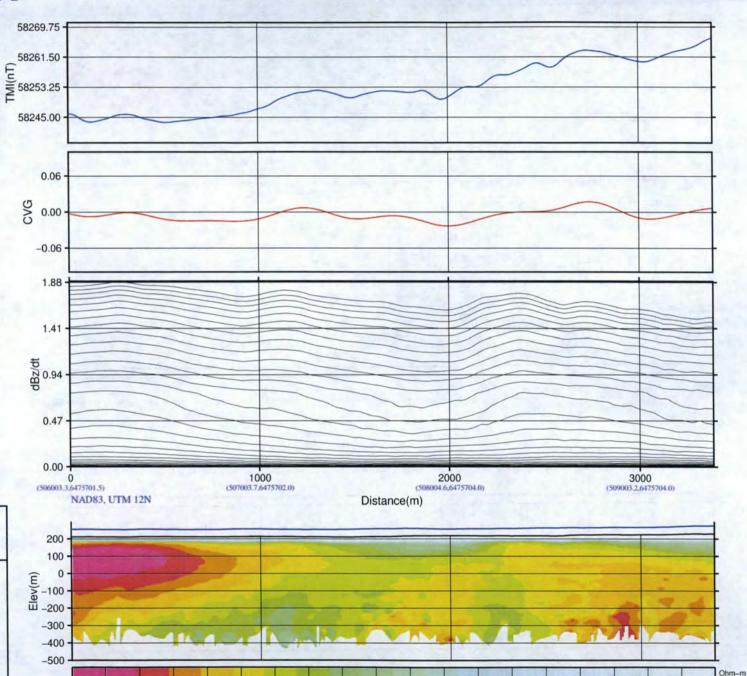
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

2014/5/15



9.08 291.55 Apparent Resistivity 371.07

472.27

601.07

863.05

111.11

View Looking: North

87.30

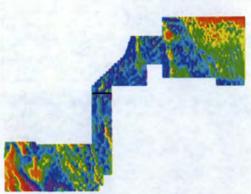
141.42

179.99

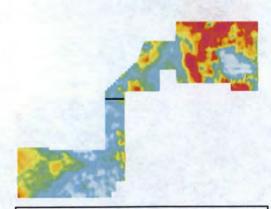


# Resistivity Depth Image (RDI) for Line 1280 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

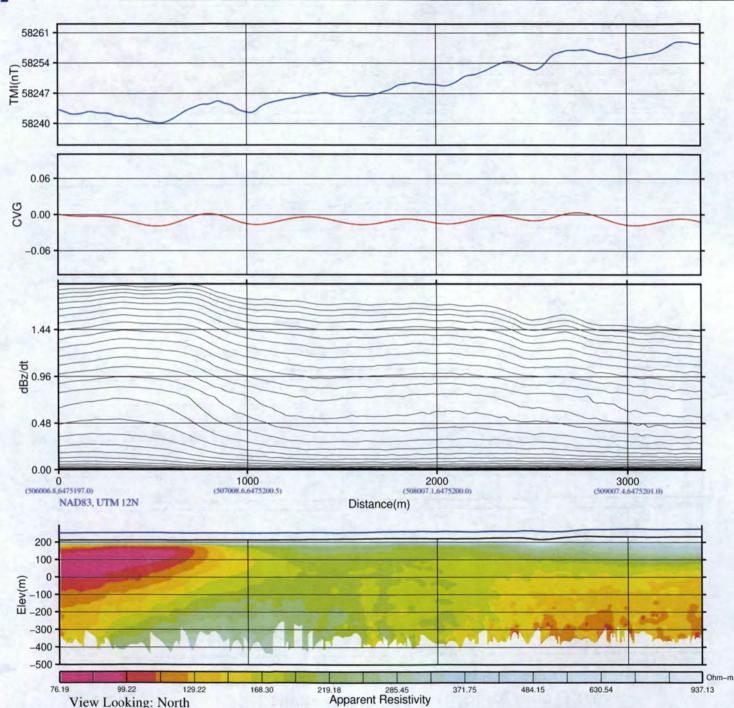


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

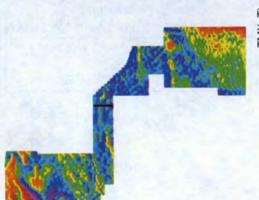
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



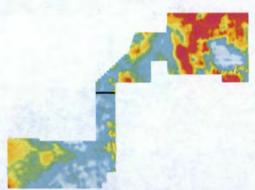


# Resistivity Depth Image (RDI) for Line 1290 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

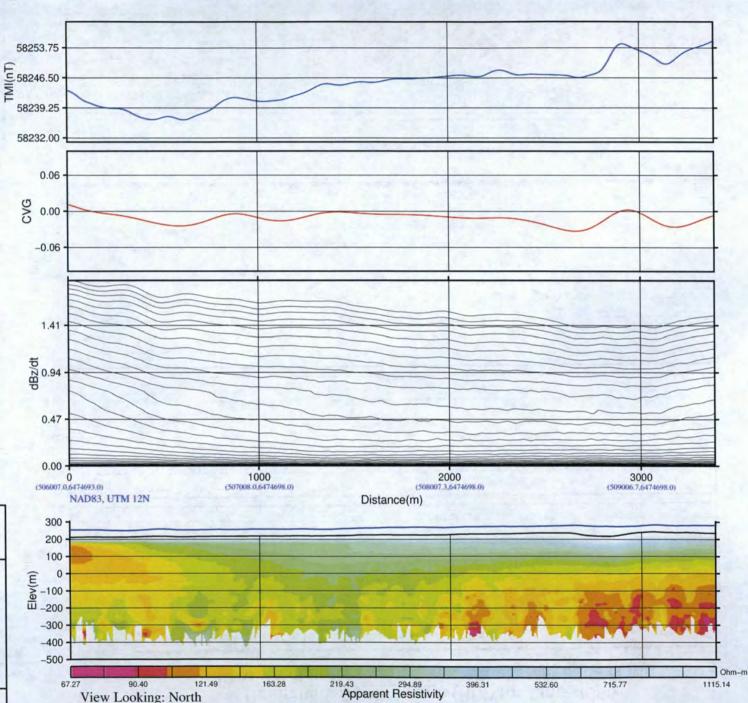


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

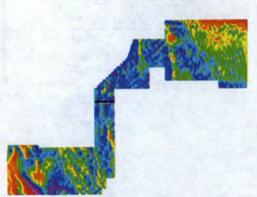
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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# Resistivity Depth Image (RDI) for Line 1300 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

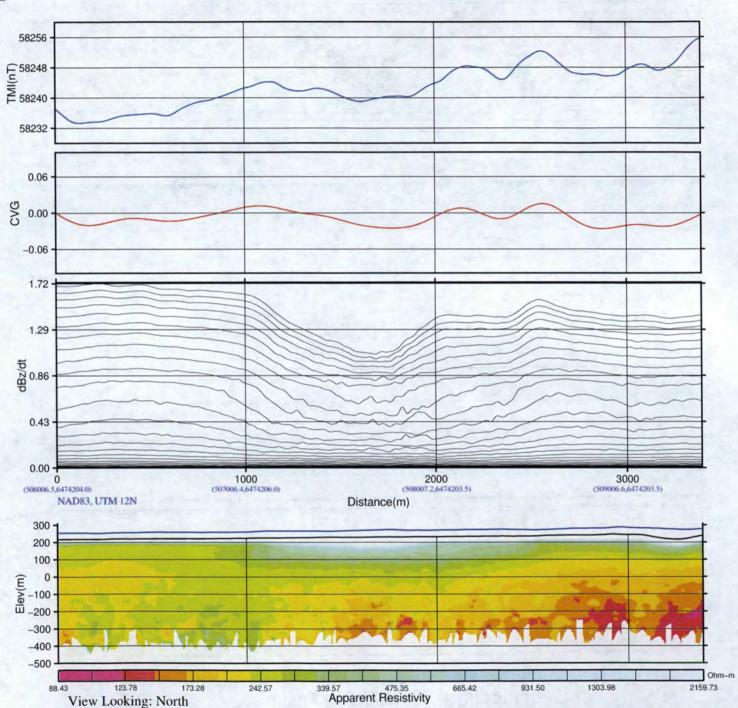


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

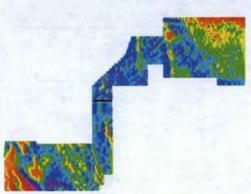
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



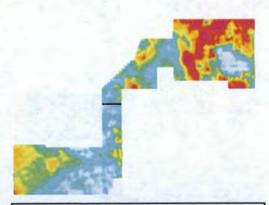


# Resistivity Depth Image (RDI) for Line 1310 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

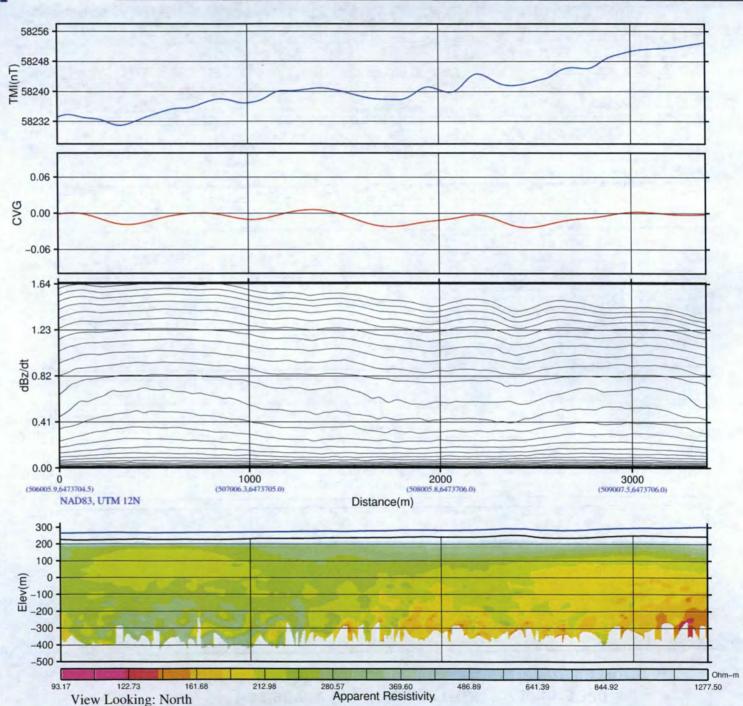


dB/dt Decay Constant (Tau)



Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

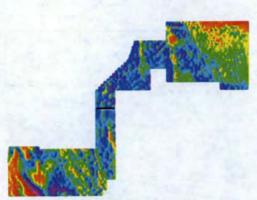
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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#### Resistivity Depth Image (RDI) for Line 1320 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

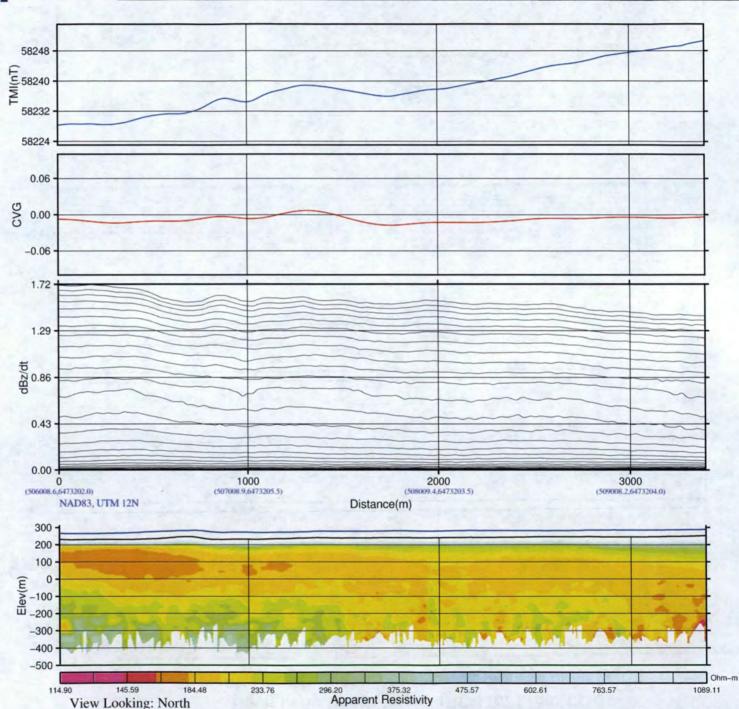


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

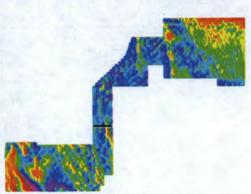
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



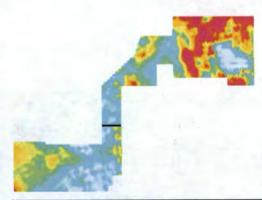


#### Resistivity Depth Image (RDI) for Line 1400 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

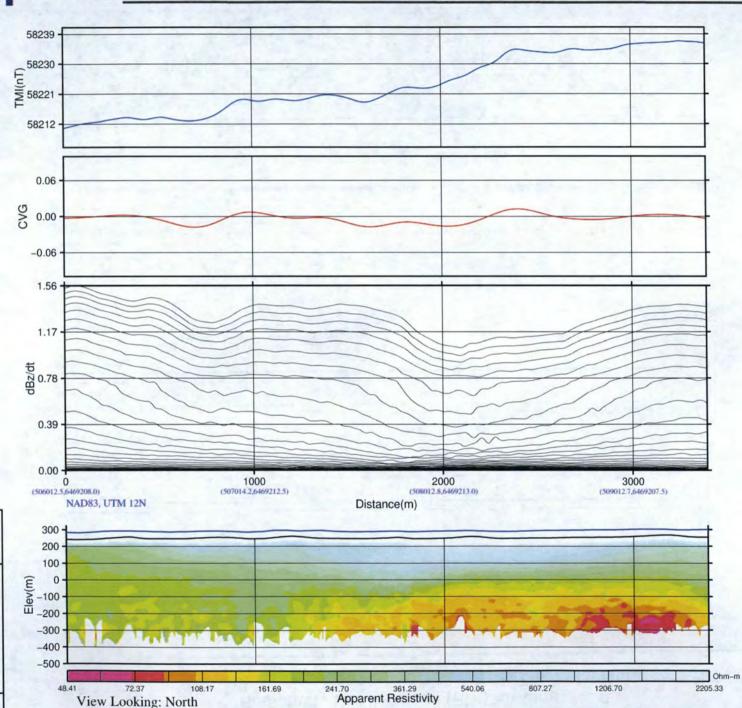


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

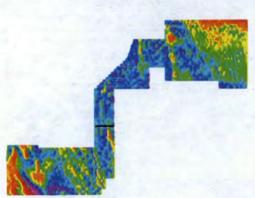
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



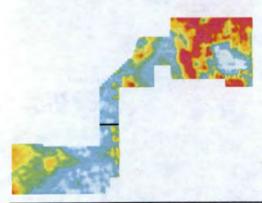


# Resistivity Depth Image (RDI) for Line 1390 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

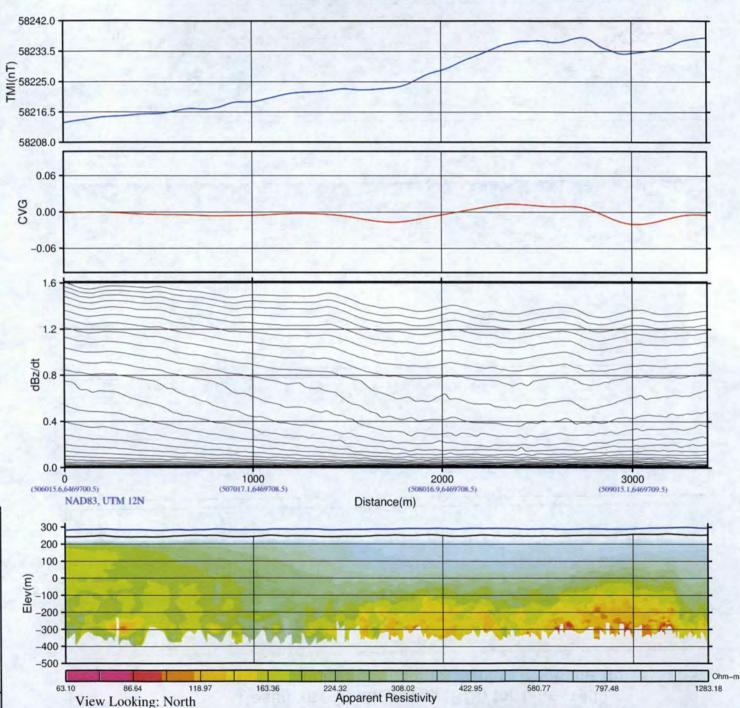


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

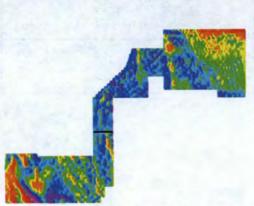
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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# Resistivity Depth Image (RDI) for Line 1380 Client: Declan Resources Inc. Block: Maybelle North



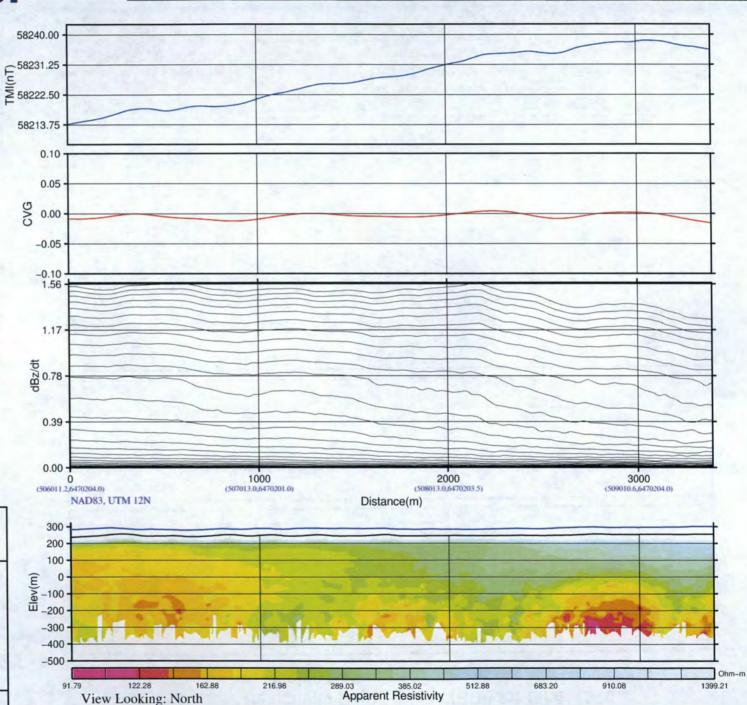


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

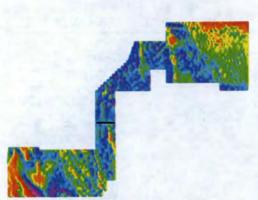
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca





# Resistivity Depth Image (RDI) for Line 1370 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

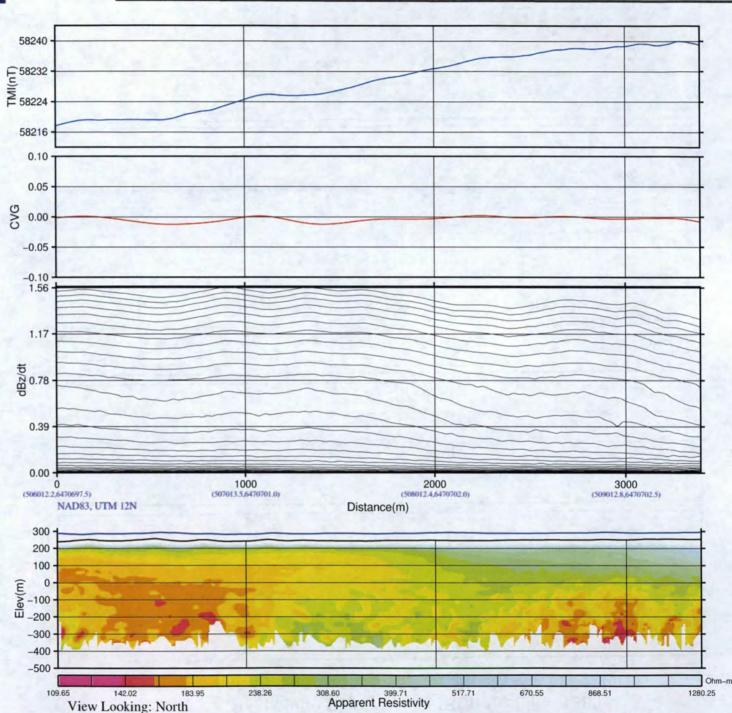


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

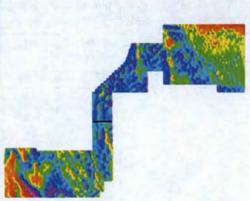
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



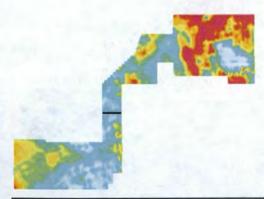


#### Resistivity Depth Image (RDI) for Line 1360 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

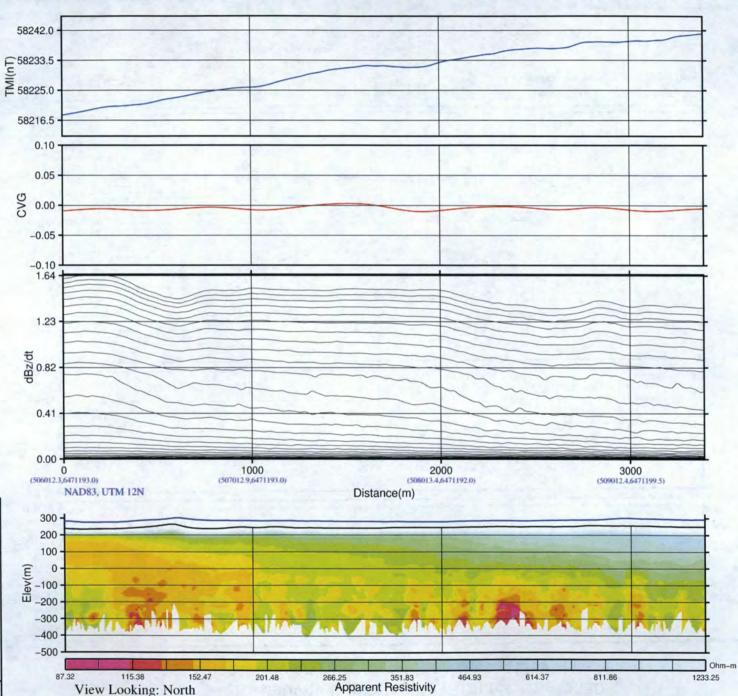


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

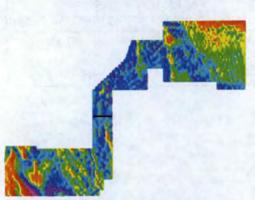
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca





# Resistivity Depth Image (RDI) for Line 1350 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



dB/dt Decay Constant (Tau)

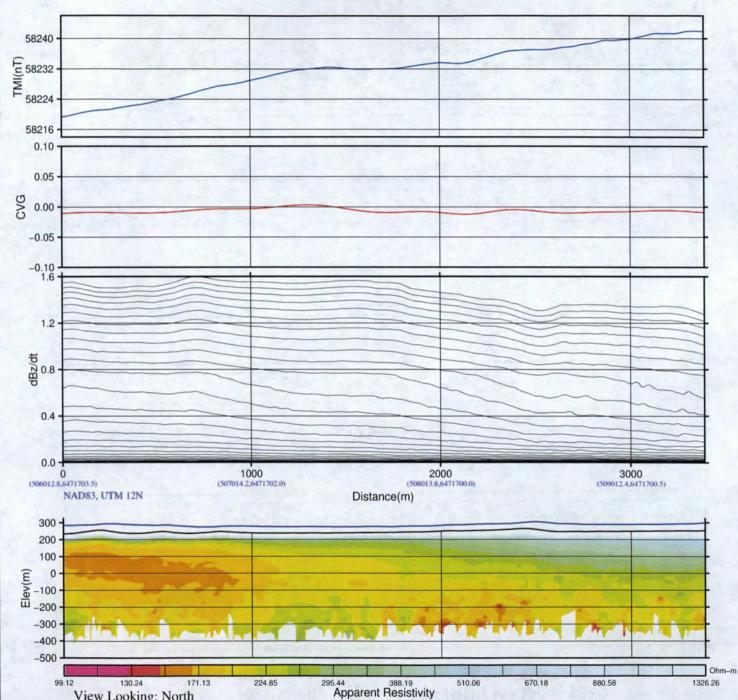


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15

View Looking: North



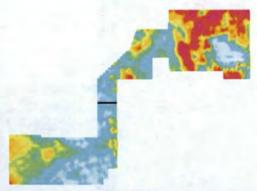


#### Resistivity Depth Image (RDI) for Line 1340 Client: Declan Resources Inc. Block: Maybelle North



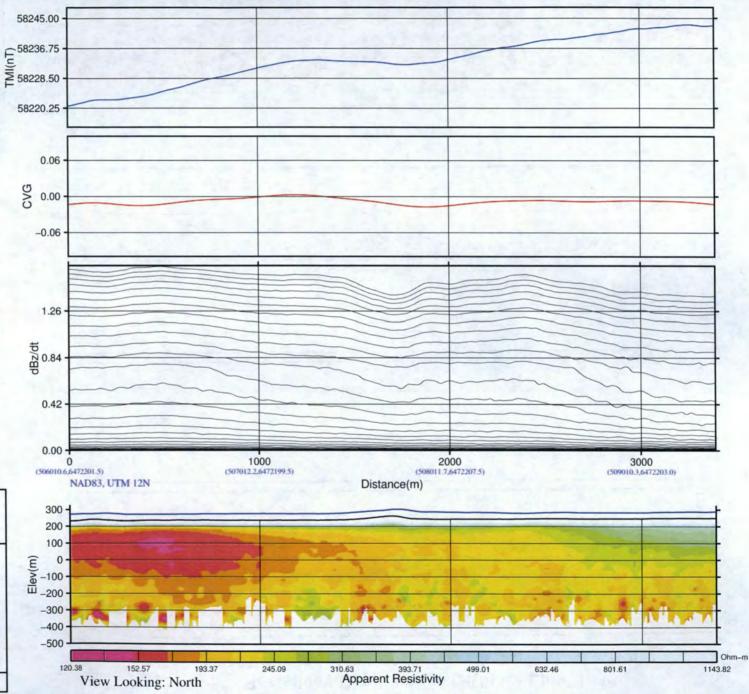
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

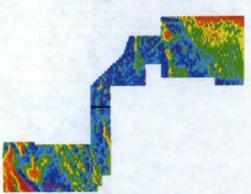
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



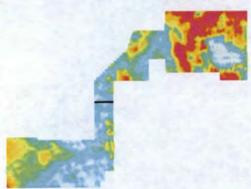


# Resistivity Depth Image (RDI) for Line 1330 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

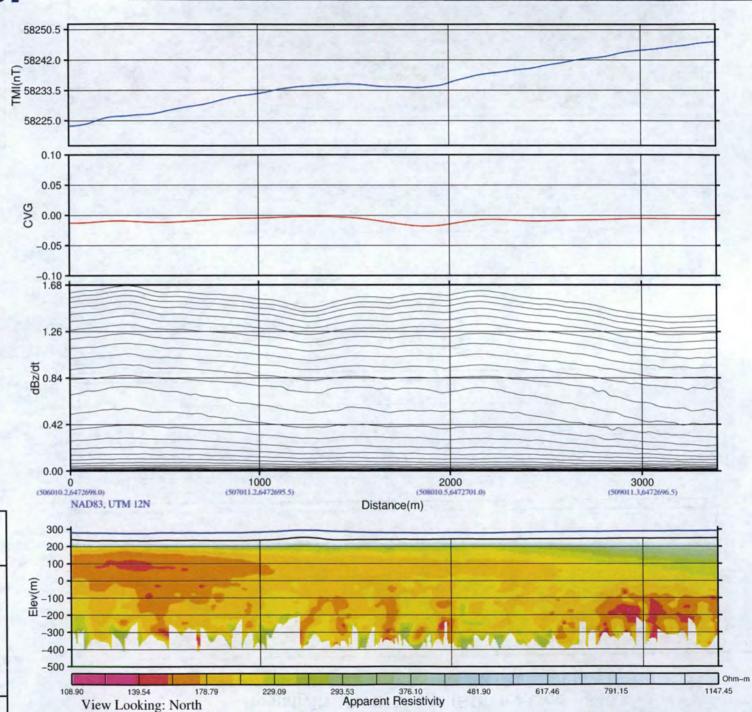


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

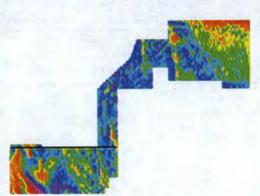
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca





#### Resistivity Depth Image (RDI) for Line 1470 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

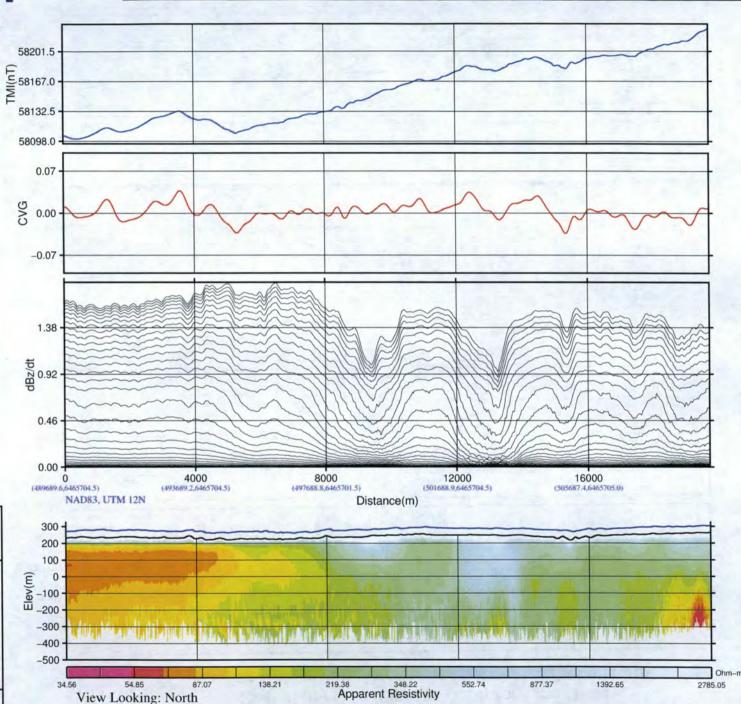


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

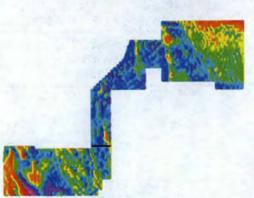
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



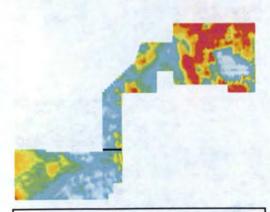


# Resistivity Depth Image (RDI) for Line 1461 Client: Declan Resources Inc. Block: Maybelle North





dB/dt Decay Constant (Tau)

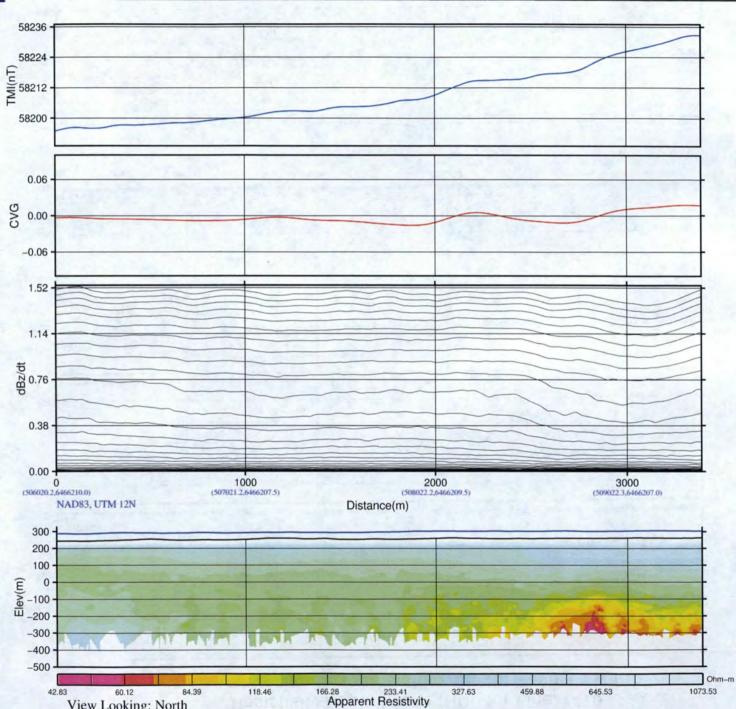


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15

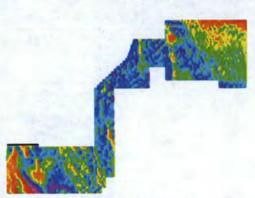
View Looking: North



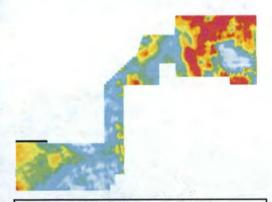


#### Resistivity Depth Image (RDI) for Line 1460 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

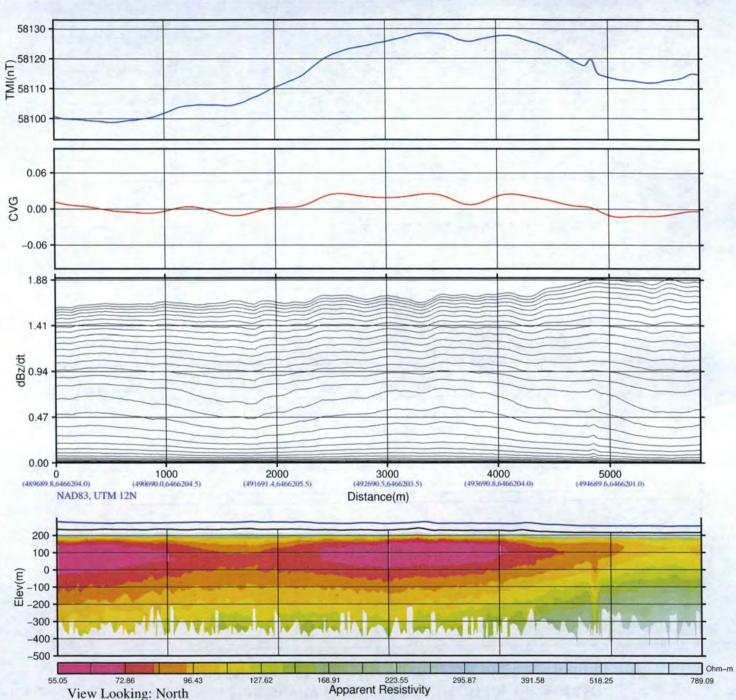


dB/dt Decay Constant (Tau)



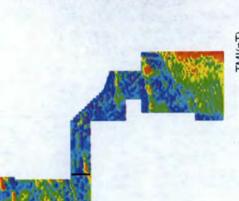
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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# Resistivity Depth Image (RDI) for Line 1450 Client: Declan Resources Inc. Block: Maybelle North



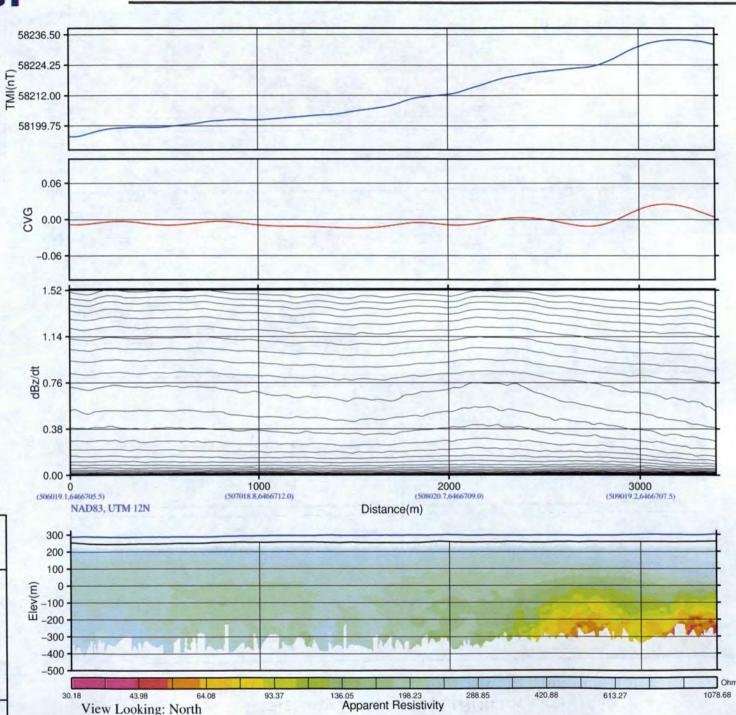
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

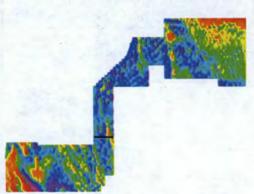
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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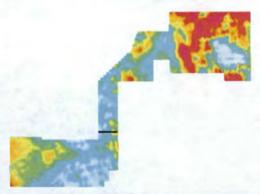


#### Resistivity Depth Image (RDI) for Line 1440 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

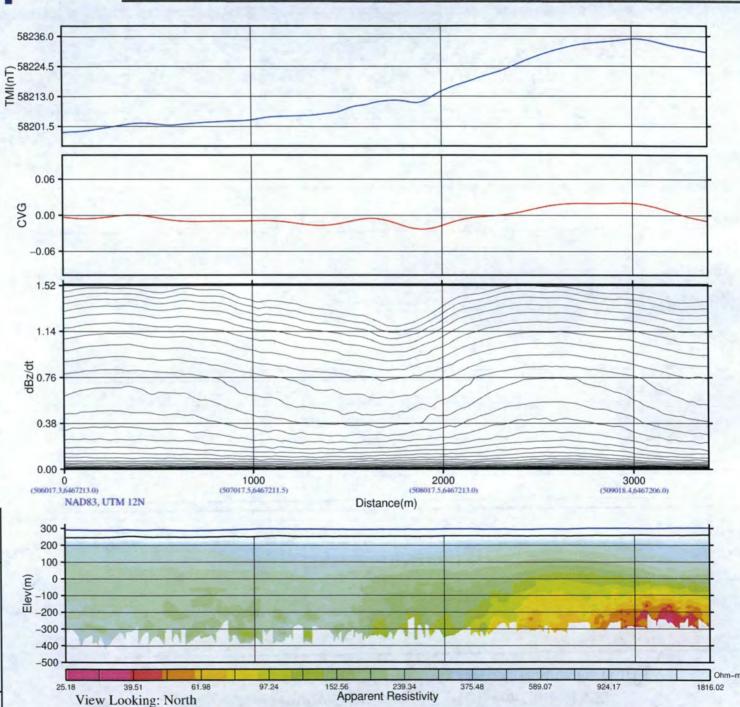


dB/dt Decay Constant (Tau)



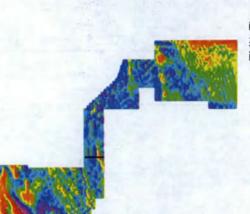
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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Aurora, Ontario, Canada L4G 4C4
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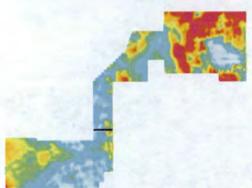


# Resistivity Depth Image (RDI) for Line 1430 Client: Declan Resources Inc. Block: Maybelle North



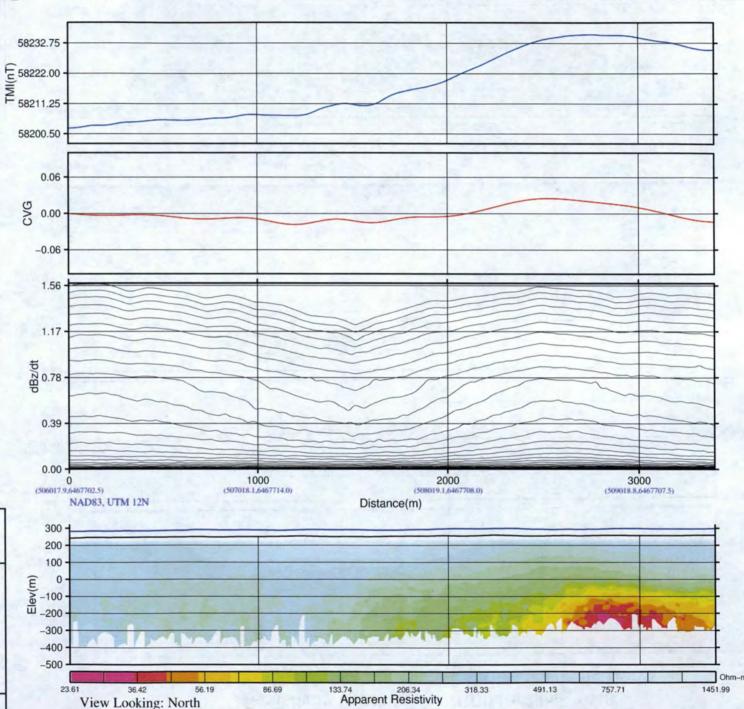
Calculated Vertical Gradient (CVG)





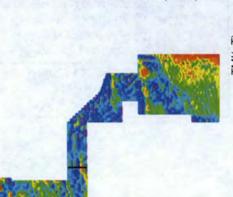
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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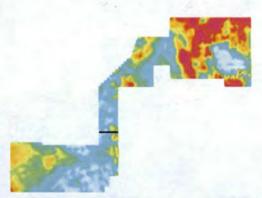


#### Resistivity Depth Image (RDI) for Line 1420 Client: Declan Resources Inc. Block: Maybelle North



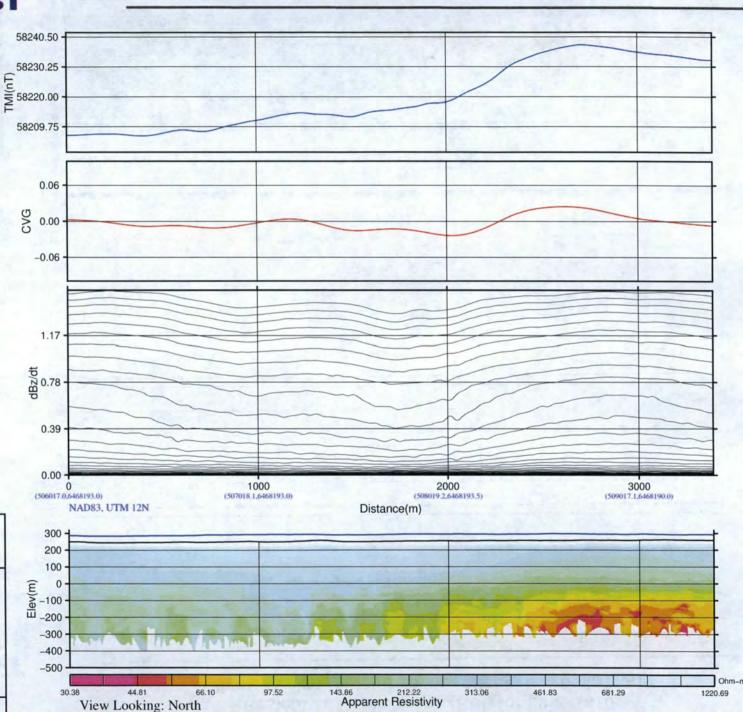
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



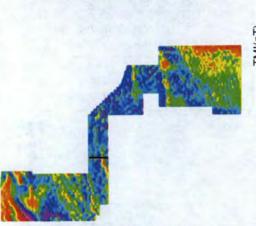
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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# Resistivity Depth Image (RDI) for Line 1410 Client: Declan Resources Inc. Block: Maybelle North



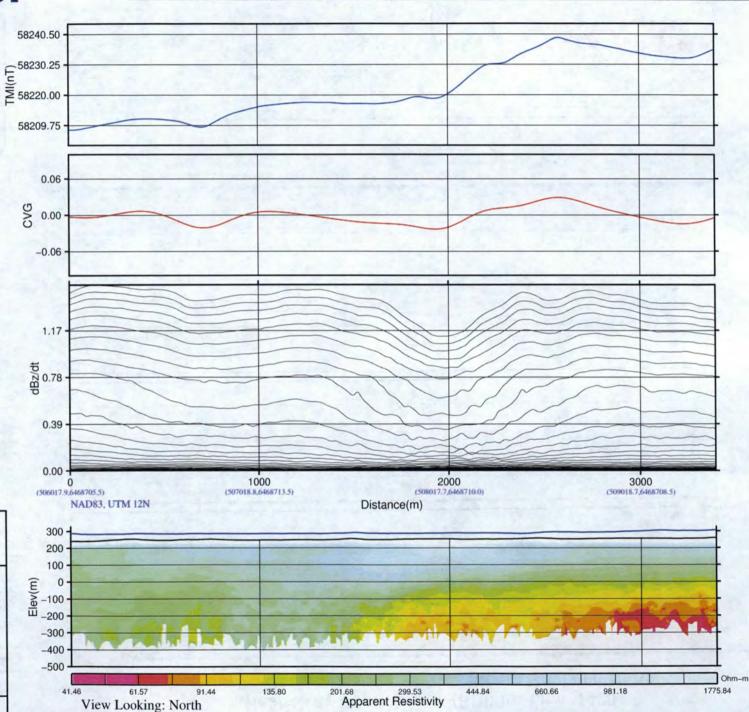
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



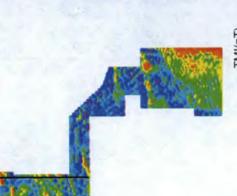
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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### Resistivity Depth Image (RDI) for Line 1480 Client: Declan Resources Inc. Block: Maybelle North



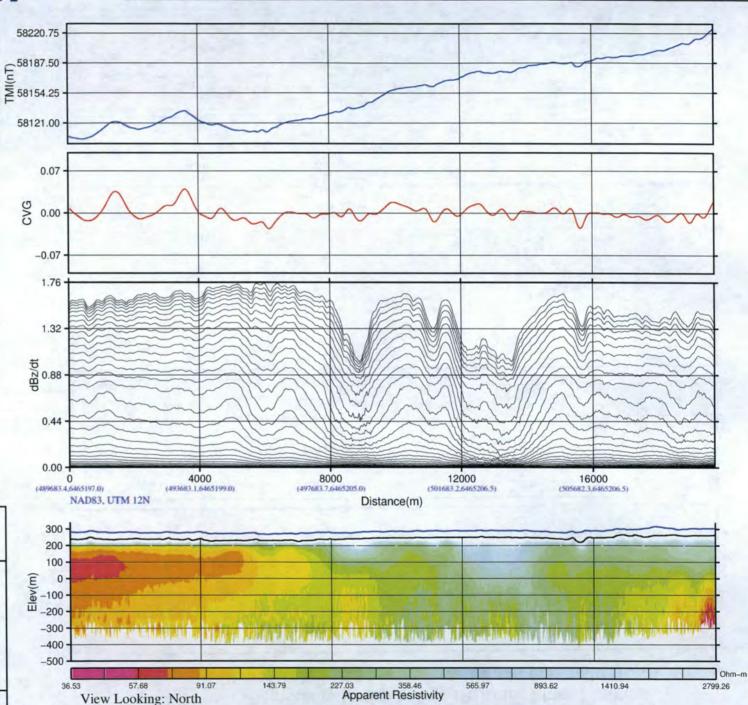
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



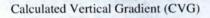
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

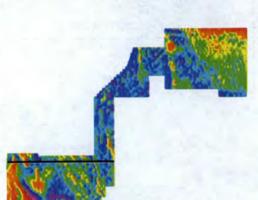
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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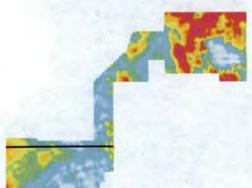


# Resistivity Depth Image (RDI) for Line 1490 Client: Declan Resources Inc. Block: Maybelle North





dB/dt Decay Constant (Tau)

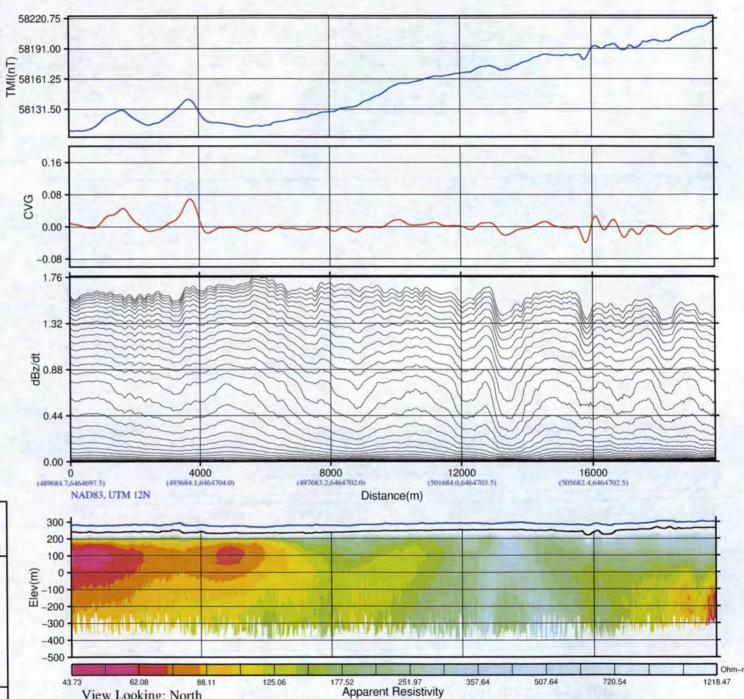


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

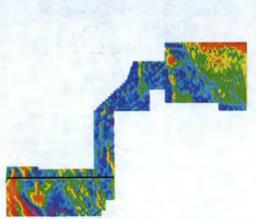
2014/5/15

View Looking: North



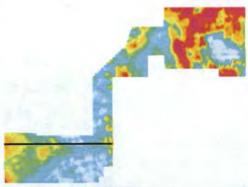


# Resistivity Depth Image (RDI) for Line 1500 Client: Declan Resources Inc. Block: Maybelle North



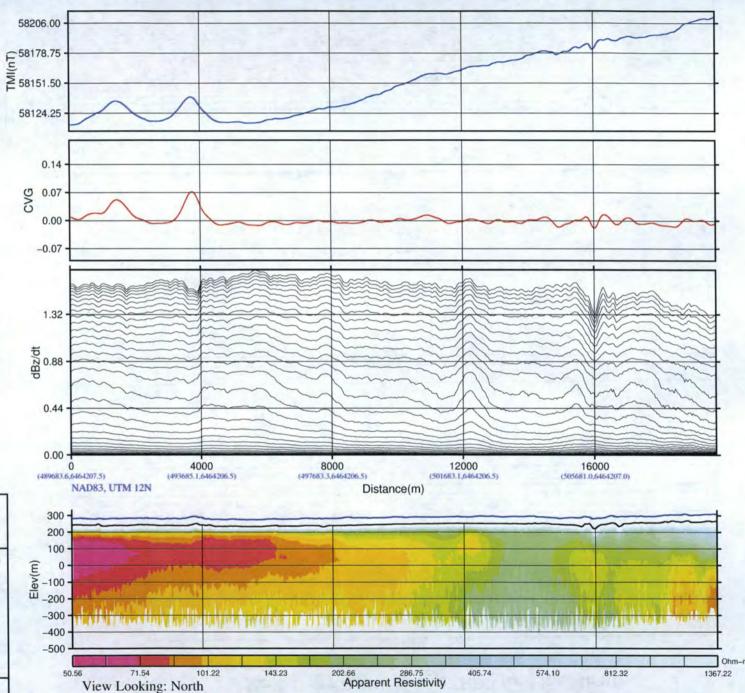
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



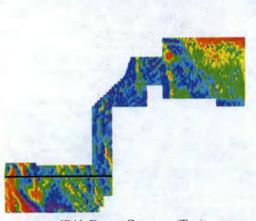
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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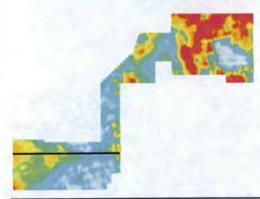
#### Resistivity Depth Image (RDI) for Line 1510 Client: Declan Resources Inc. Block: Maybelle North



Calculated Vertical Gradient (CVG)

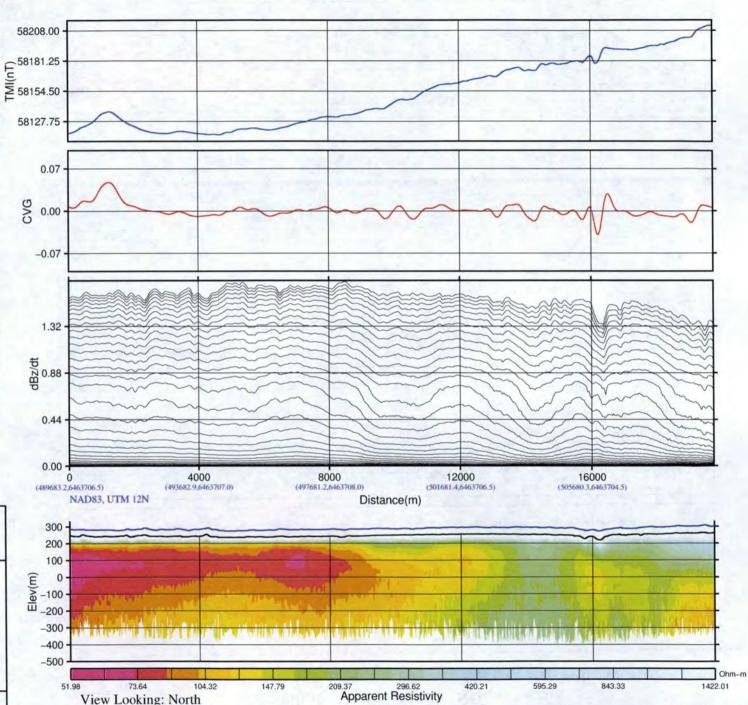


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

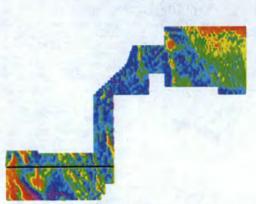
VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca



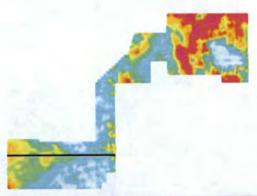


# Resistivity Depth Image (RDI) for Line 1520 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

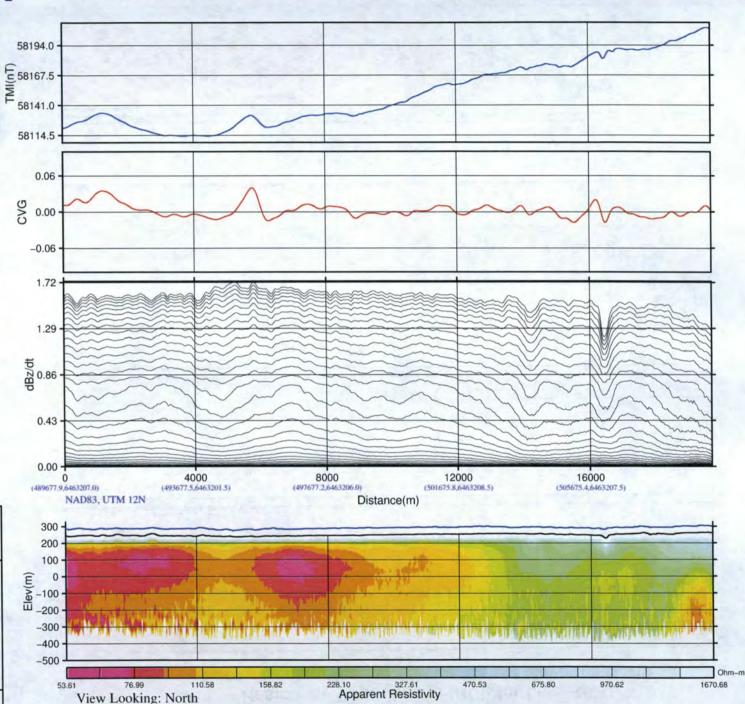


dB/dt Decay Constant (Tau)



Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

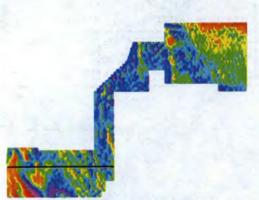
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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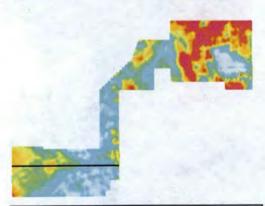


## Resistivity Depth Image (RDI) for Line 1530 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

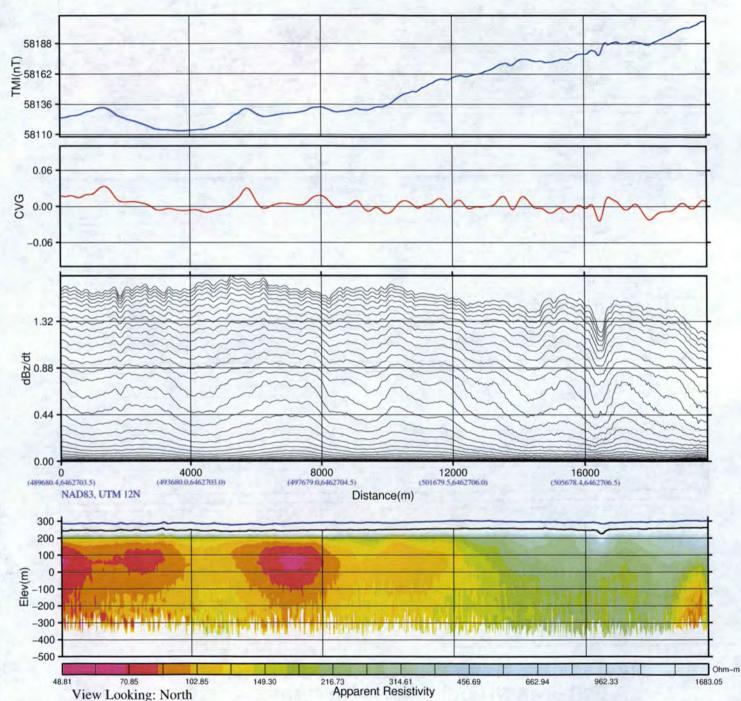


dB/dt Decay Constant (Tau)



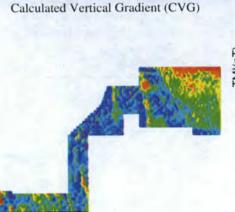
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

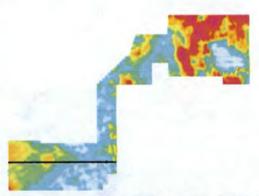




## Resistivity Depth Image (RDI) for Line 1540 Client: Declan Resources Inc. Block: Maybelle North

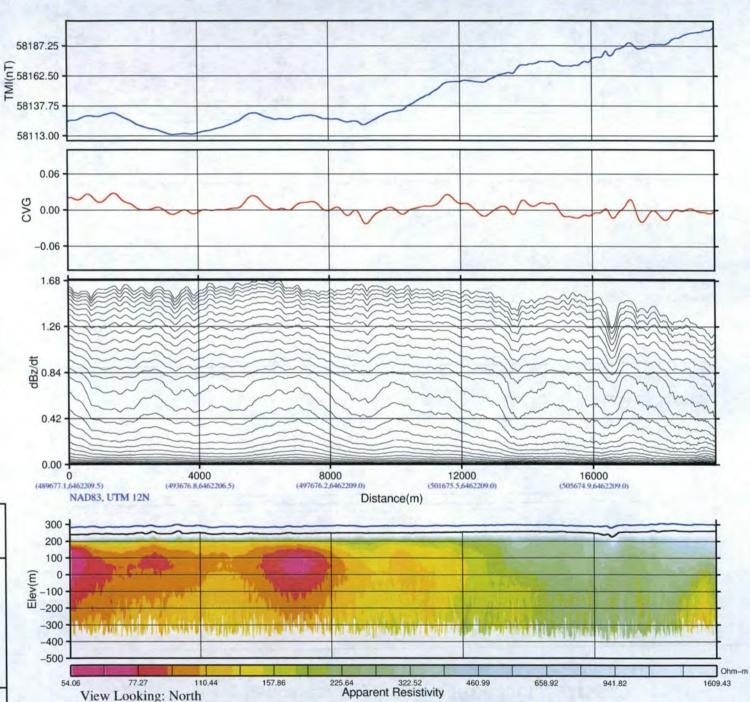


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

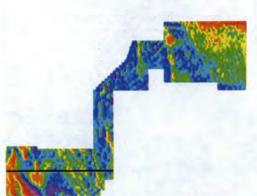
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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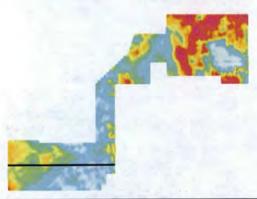


#### Resistivity Depth Image (RDI) for Line 1550 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

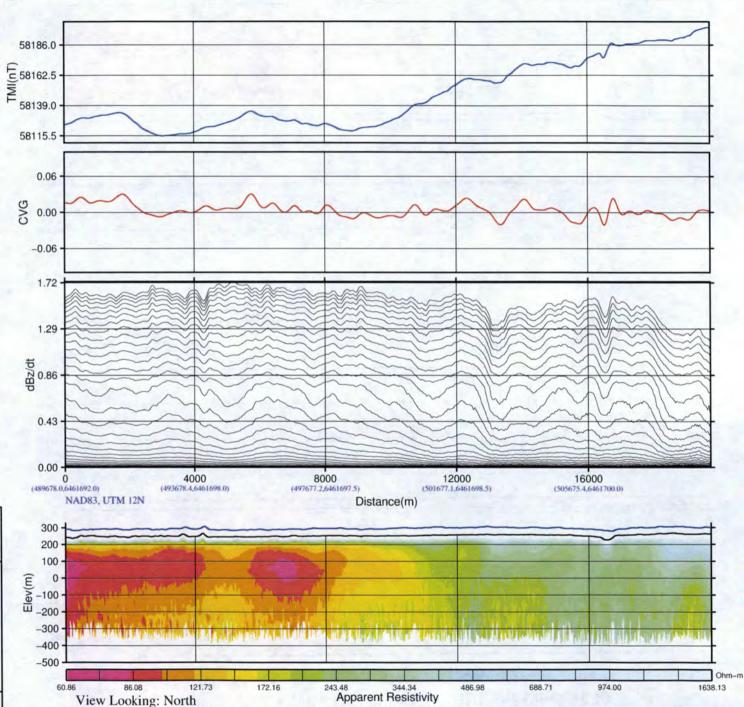


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
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# Resistivity Depth Image (RDI) for Line 1560 Client: Declan Resources Inc. Block: Maybelle North



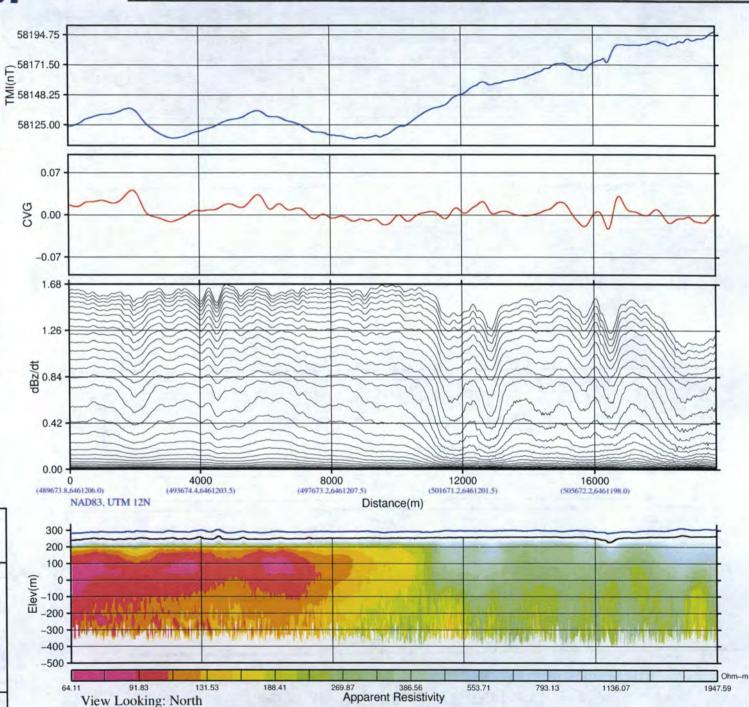
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



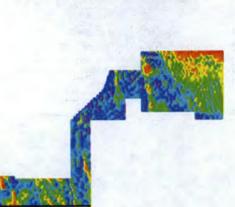
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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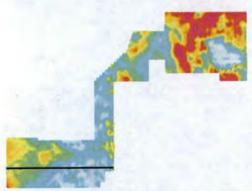


## Resistivity Depth Image (RDI) for Line 1570 Client: Declan Resources Inc. Block: Maybelle North



Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)

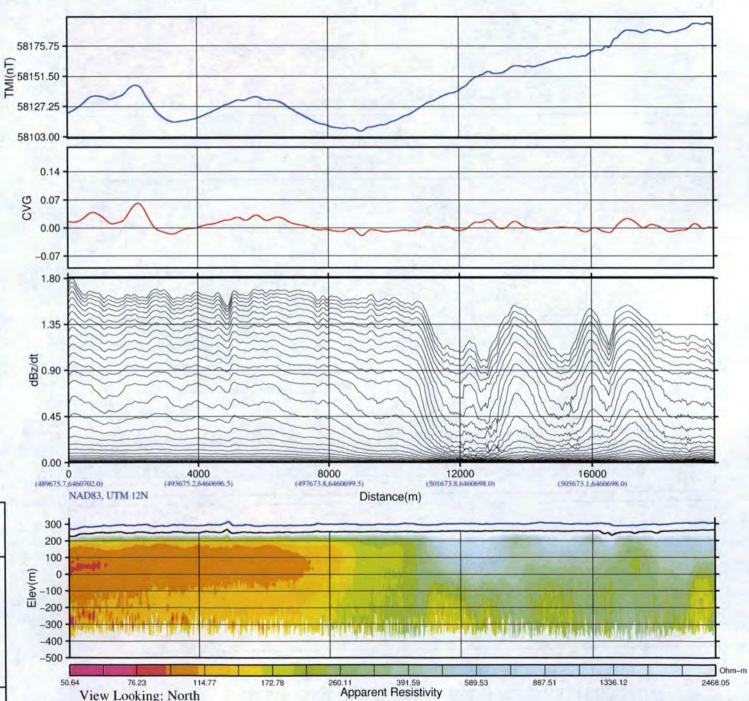


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15

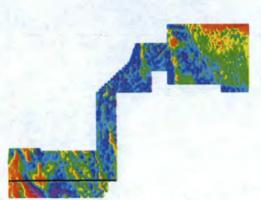
View Looking: North



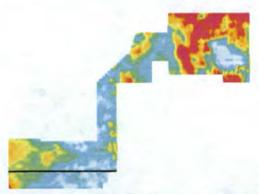


# Resistivity Depth Image (RDI) for Line 1580 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

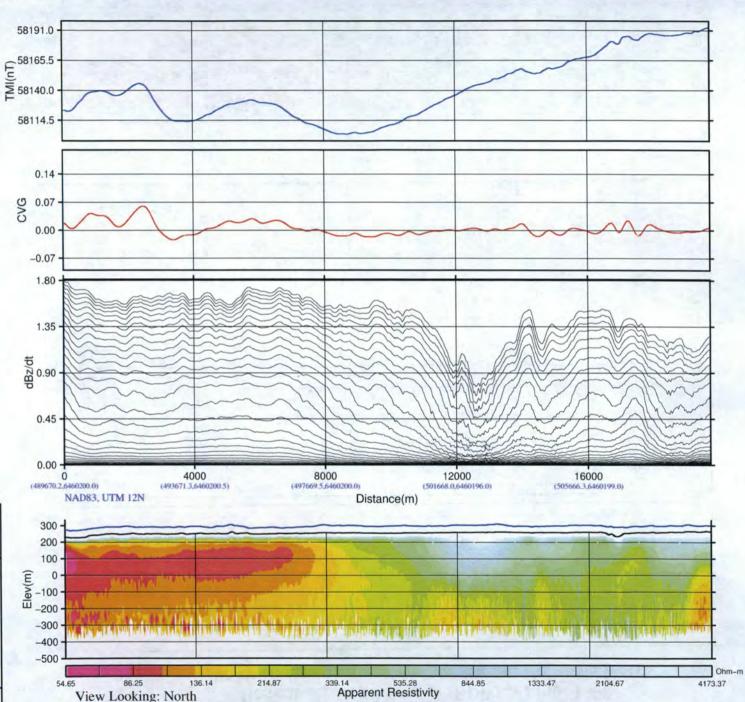


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

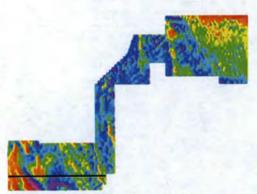
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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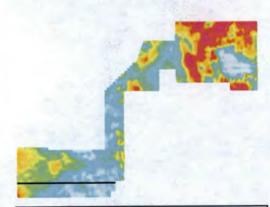


#### Resistivity Depth Image (RDI) for Line 1590 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

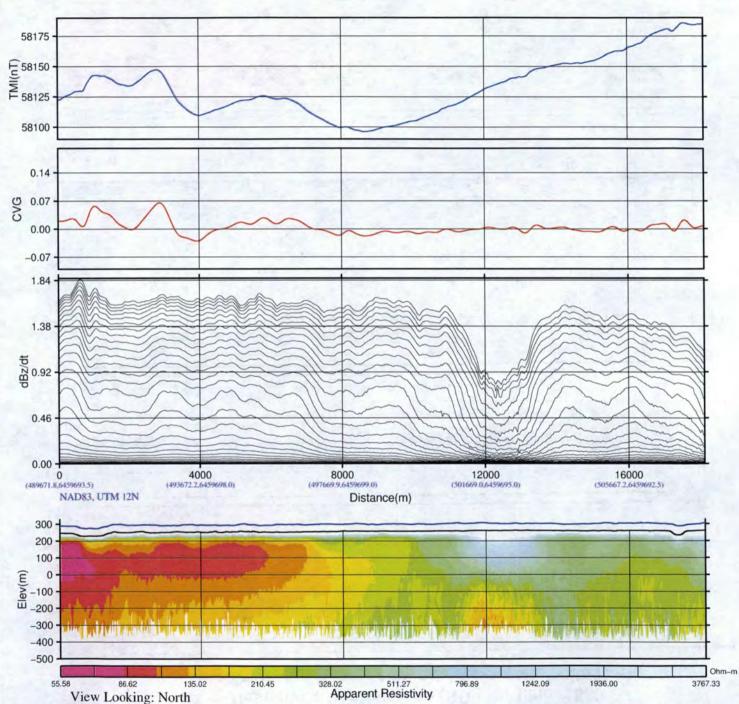


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

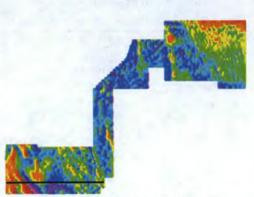
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



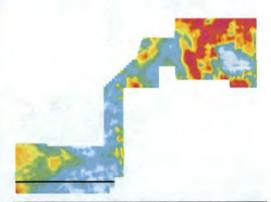


# Resistivity Depth Image (RDI) for Line 1600 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

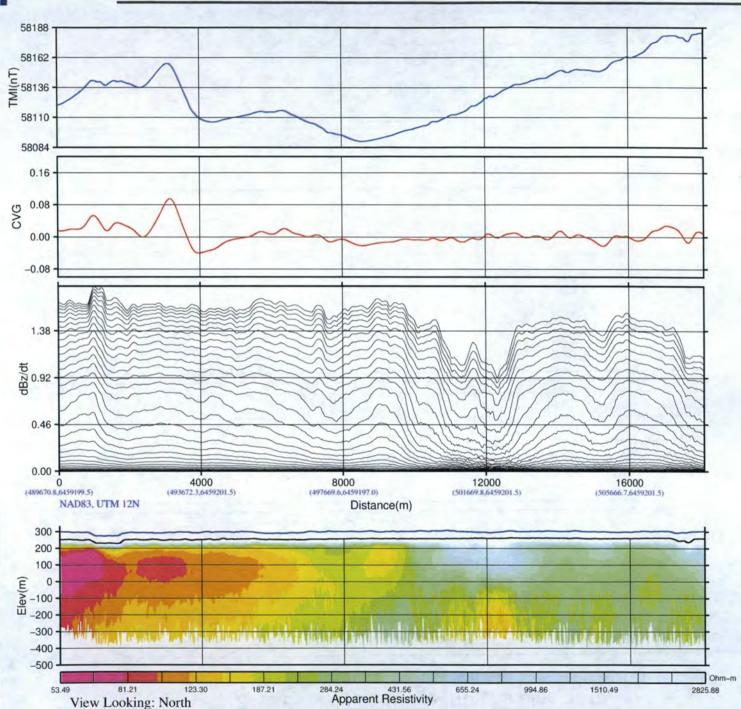


dB/dt Decay Constant (Tau)



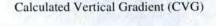
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

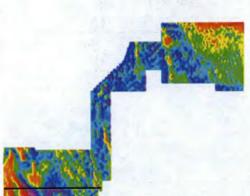
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



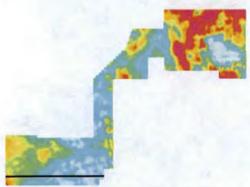


# Resistivity Depth Image (RDI) for Line 1610 Client: Declan Resources Inc. Block: Maybelle North





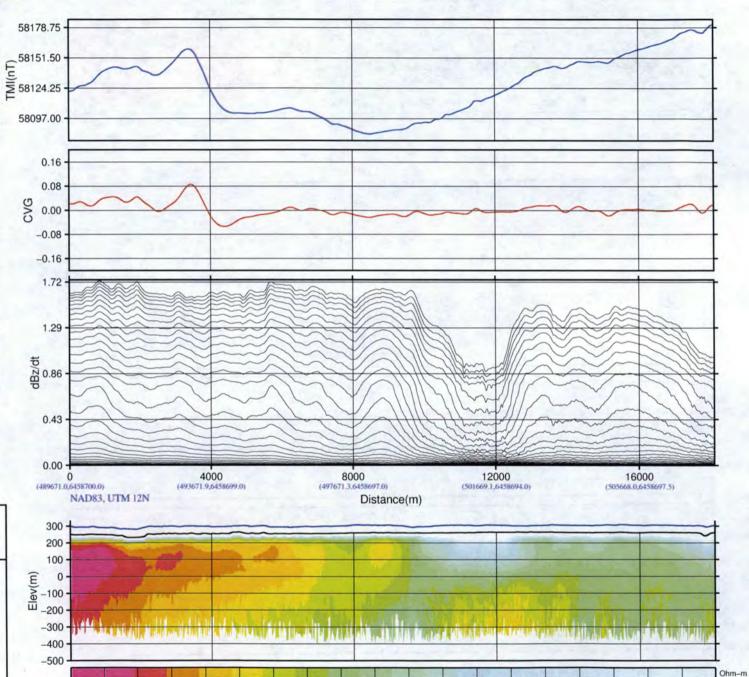
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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2014/5/15



Apparent Resistivity

View Looking: North

1055.44

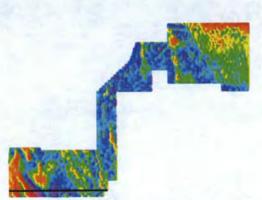
1624.30

3101.10

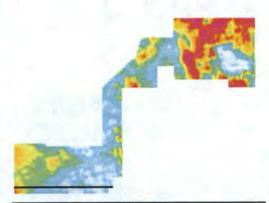


#### Resistivity Depth Image (RDI) for Line 1620 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

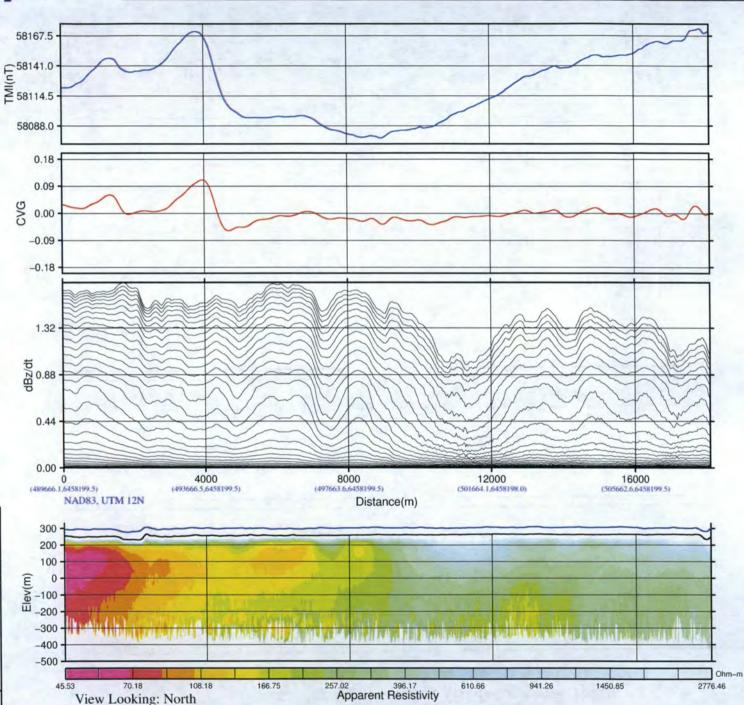


dB/dt Decay Constant (Tau)



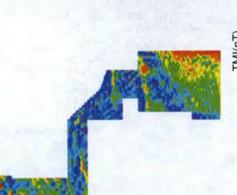
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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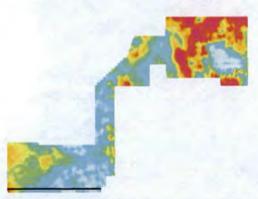


#### Resistivity Depth Image (RDI) for Line 1630 Client: Declan Resources Inc. Block: Maybelle North



Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)

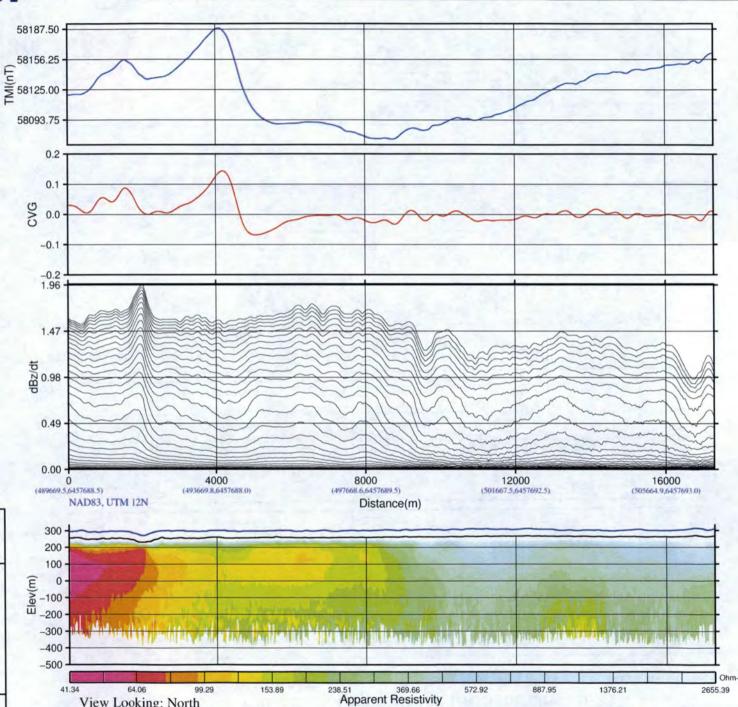


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15

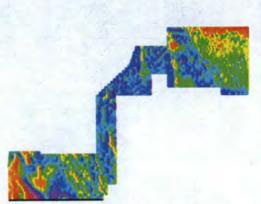
View Looking: North



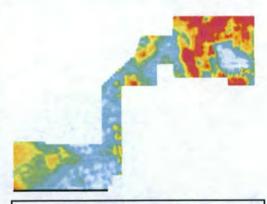


## Resistivity Depth Image (RDI) for Line 1640 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

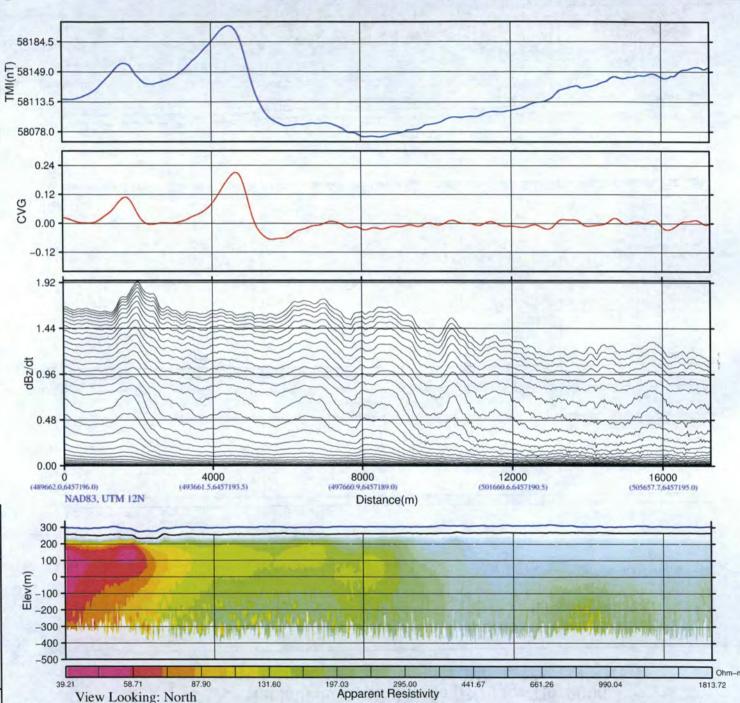


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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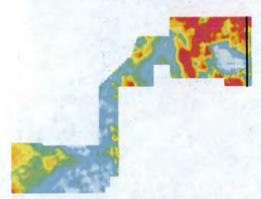


# Resistivity Depth Image (RDI) for Tie 2000 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

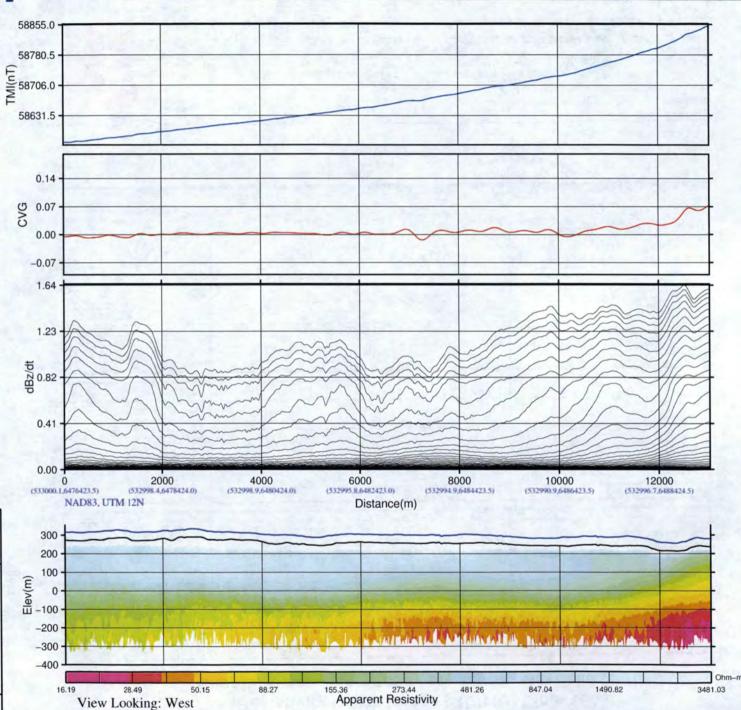


dB/dt Decay Constant (Tau)



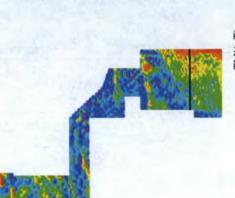
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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## Resistivity Depth Image (RDI) for Tie 2010 Client: Declan Resources Inc. Block: Maybelle North



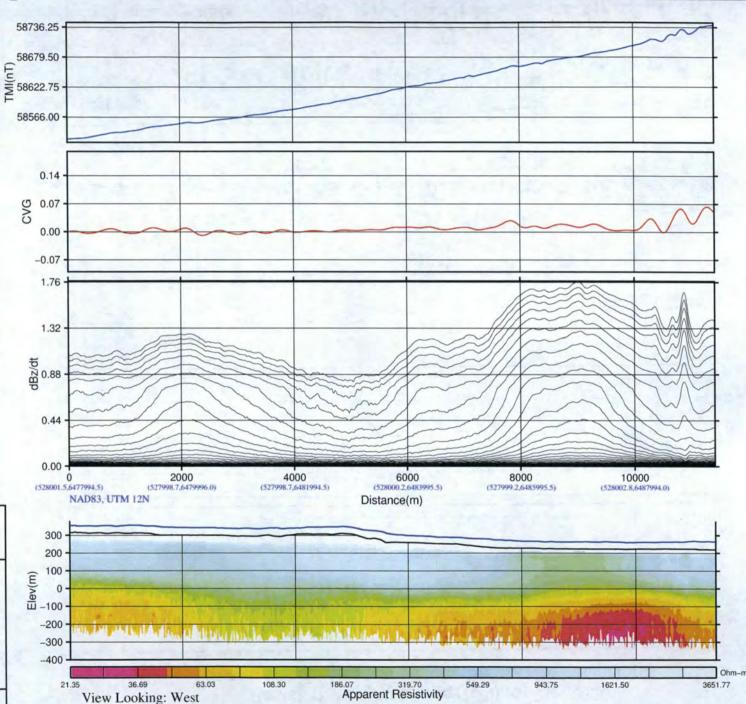
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

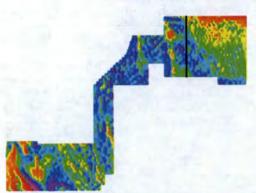
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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Aurora, Ontario, Canada L4G 4C4
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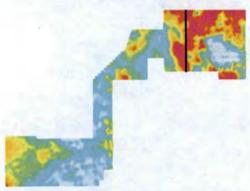


#### Resistivity Depth Image (RDI) for Tie 2020 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

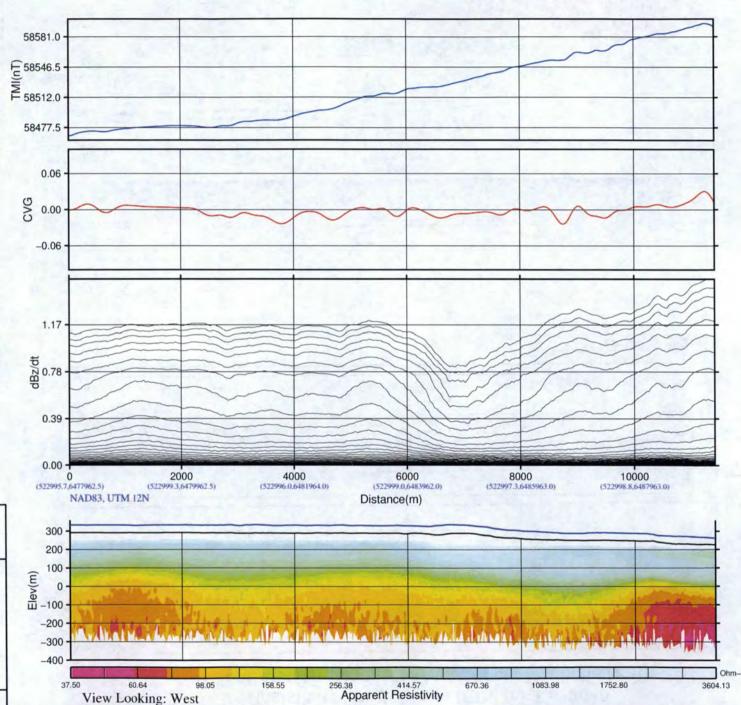


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

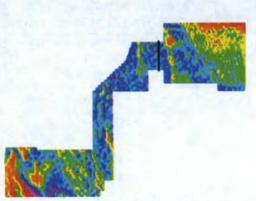
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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## Resistivity Depth Image (RDI) for Tie 2030 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

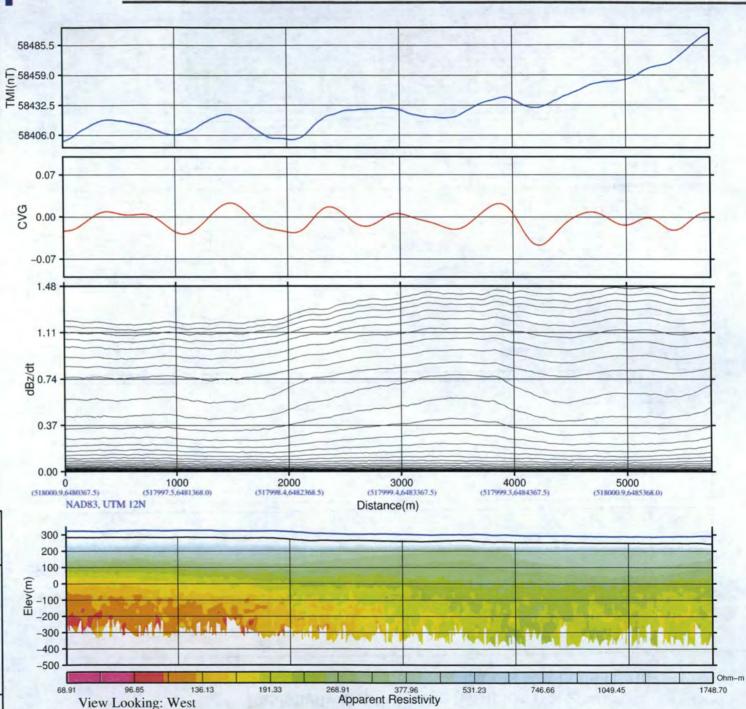


dB/dt Decay Constant (Tau)



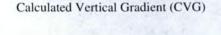
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

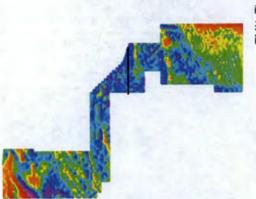
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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# Resistivity Depth Image (RDI) for Tie 2040 Client: Declan Resources Inc. Block: Maybelle North





dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus (Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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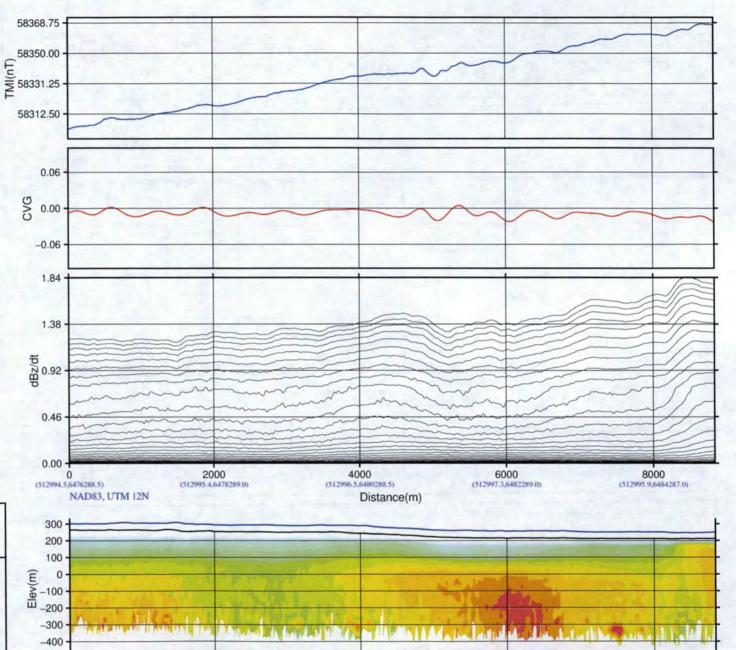
-500

144.32

View Looking: West

200.99

2014/5/15



Apparent Resistivity

542.91

756.10

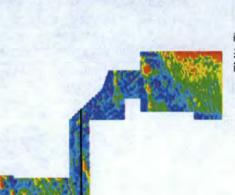
1053.00

Ohm-m

1730.63

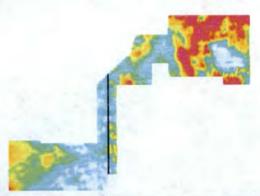


## Resistivity Depth Image (RDI) for Tie 2050 Client: Declan Resources Inc. Block: Maybelle North



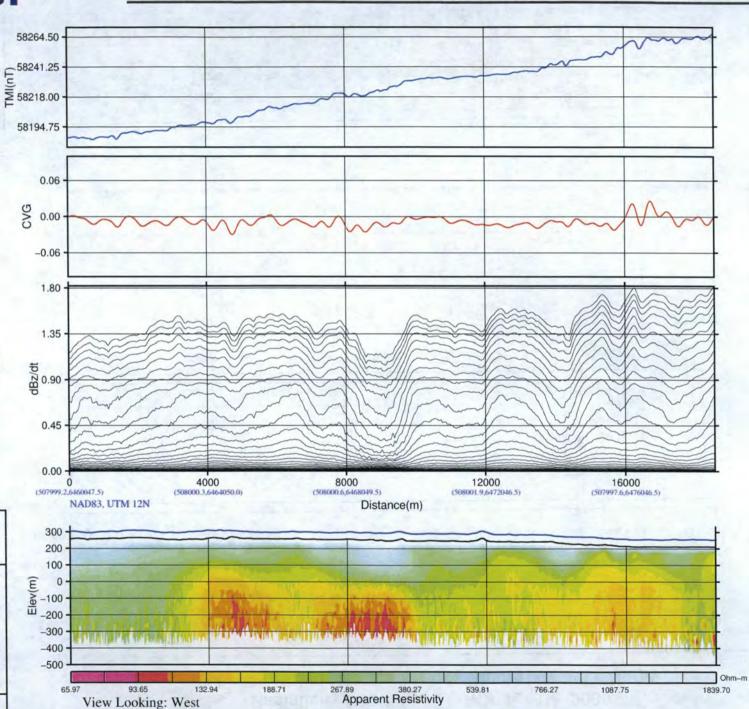
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



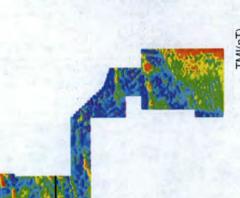
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
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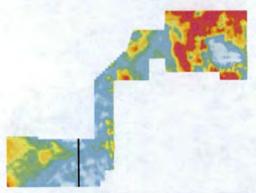


## Resistivity Depth Image (RDI) for Tie 2060 Client: Declan Resources Inc. Block: Maybelle North



Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)

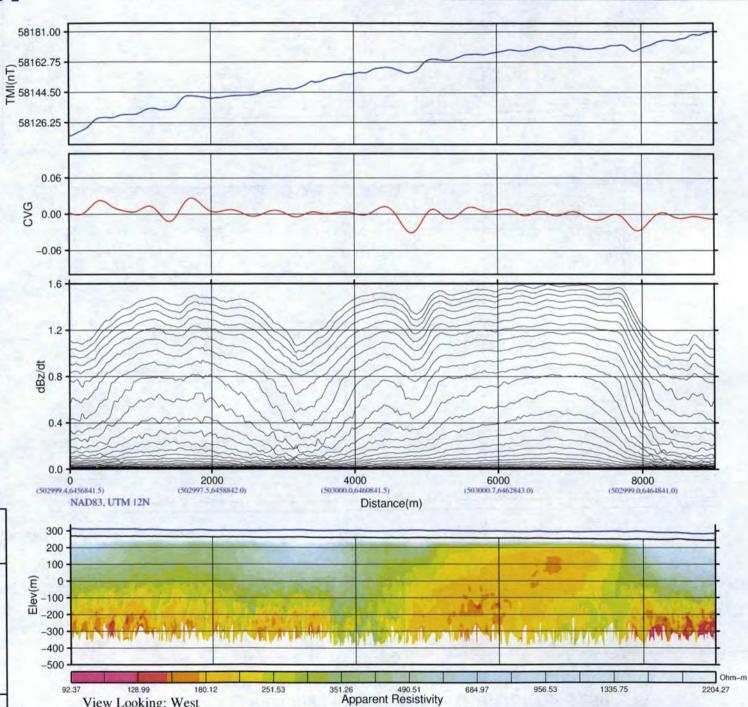


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15

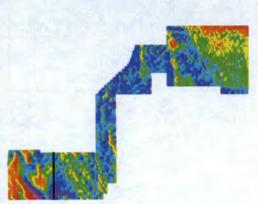
View Looking: West



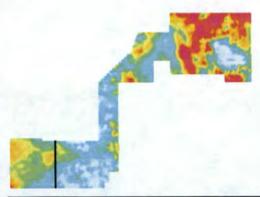


## Resistivity Depth Image (RDI) for Tie 2070 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

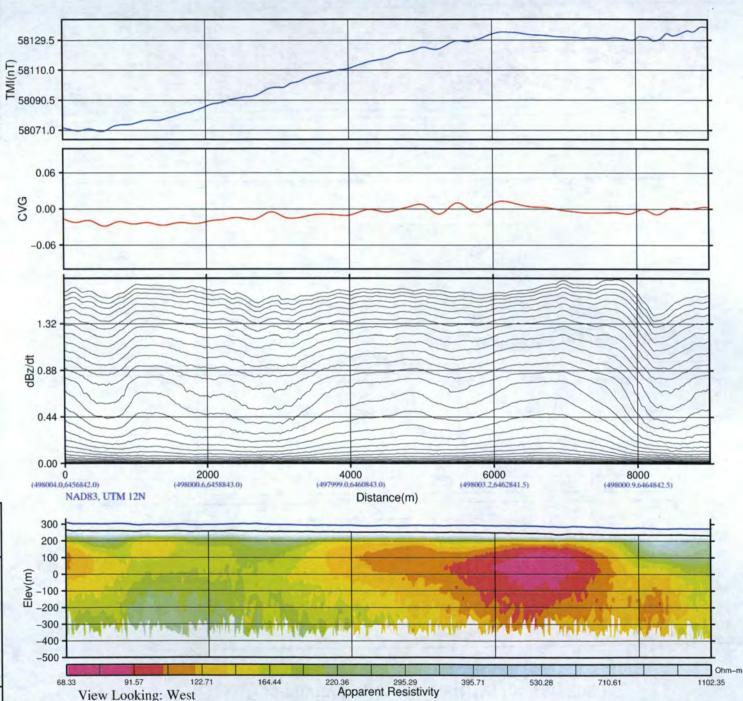


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

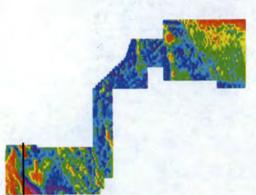
VTEM System: VTEMplus (Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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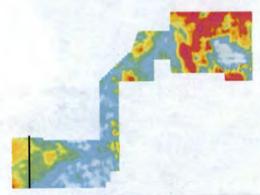


# Resistivity Depth Image (RDI) for Tie 2080 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



dB/dt Decay Constant (Tau)

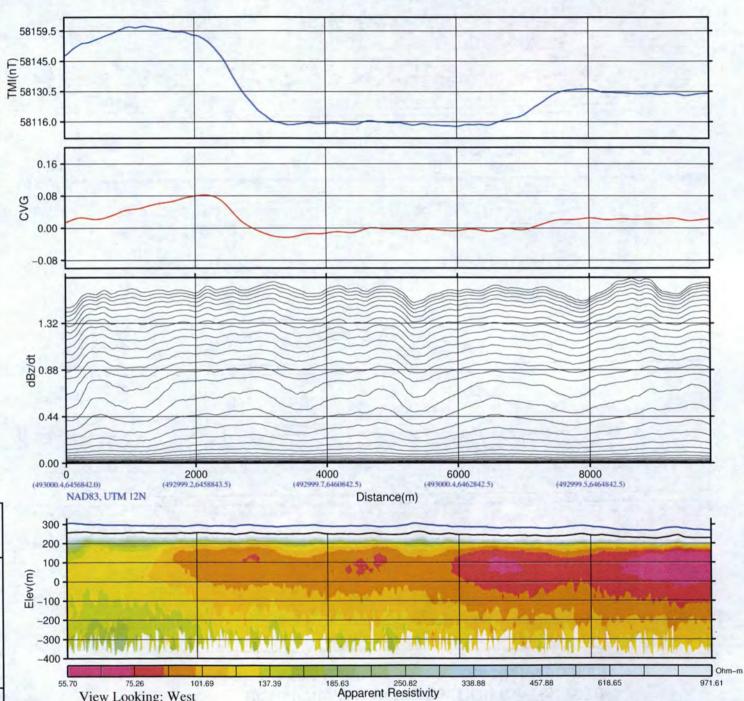


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

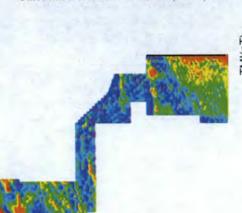
2014/5/15

View Looking: West



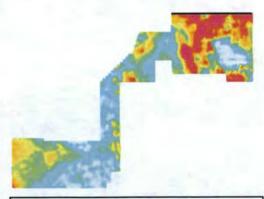


## Resistivity Depth Image (RDI) for Line 1000 Client: Declan Resources Inc. Block: Maybelle North



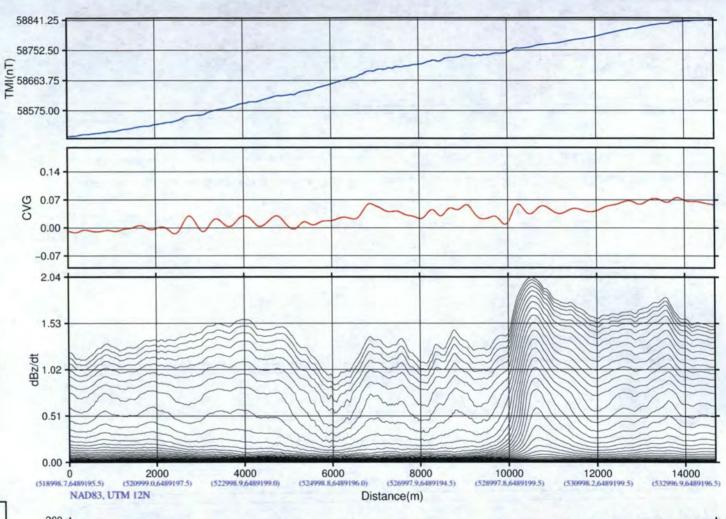
Calculated Vertical Gradient (CVG)

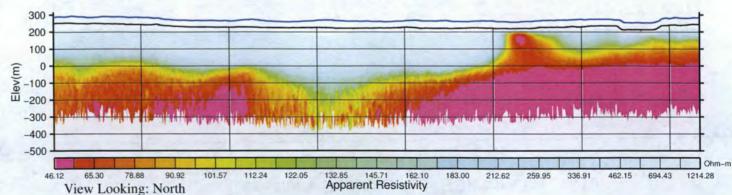
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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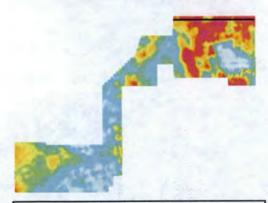


#### Resistivity Depth Image (RDI) for Line 1010 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

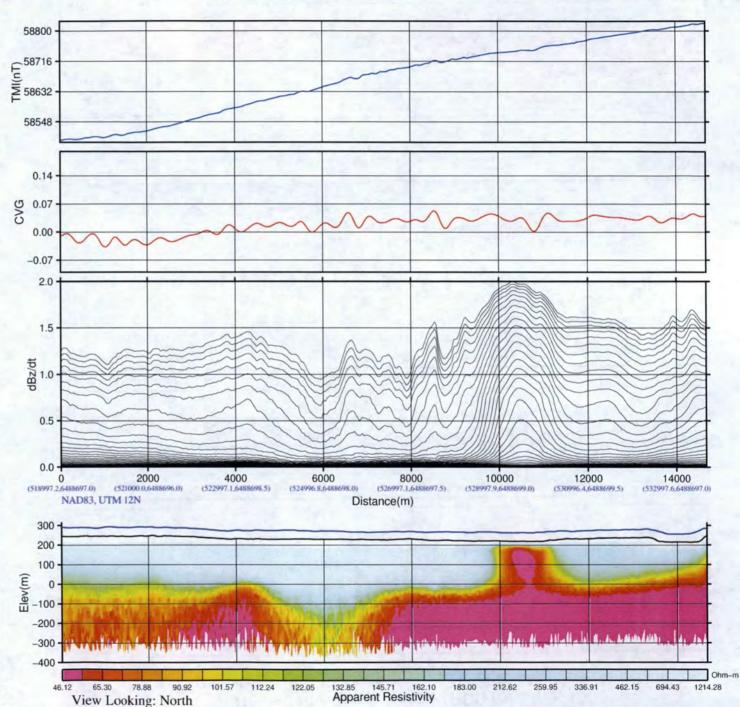


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

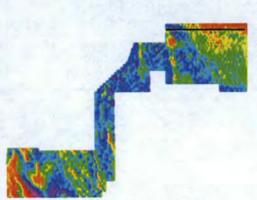
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



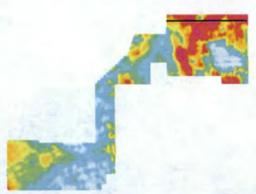


## Resistivity Depth Image (RDI) for Line 1020 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

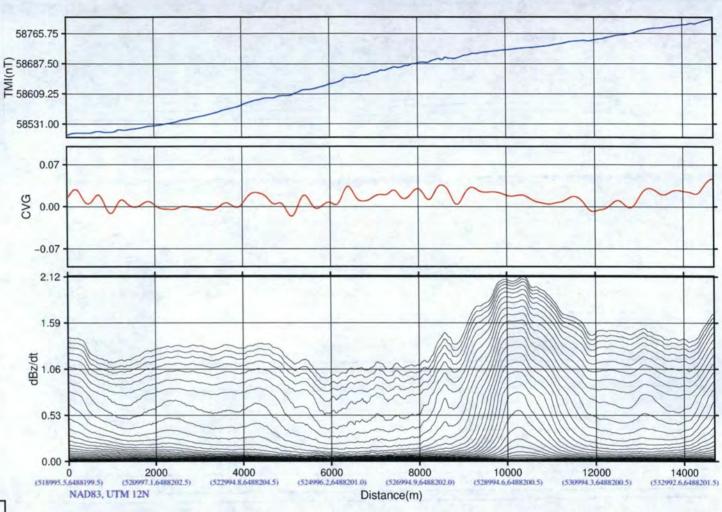


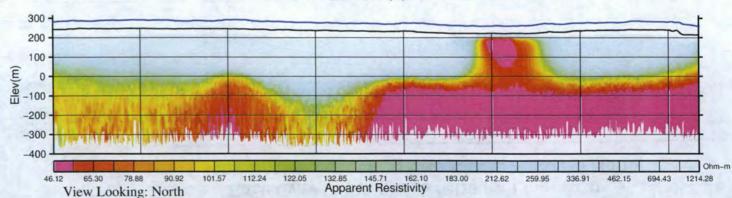
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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Aurora, Ontario, Canada L4G 4C4
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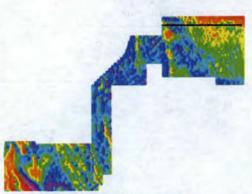




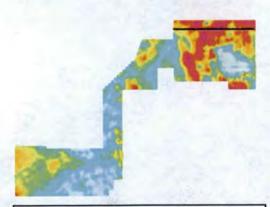


# Resistivity Depth Image (RDI) for Line 1030 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

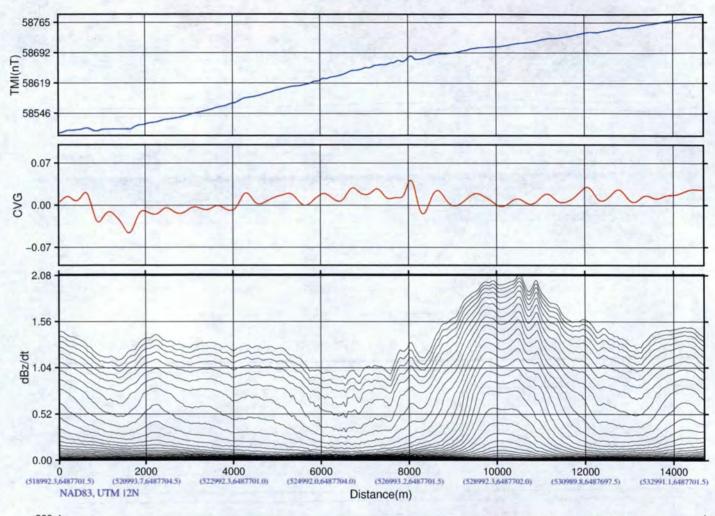


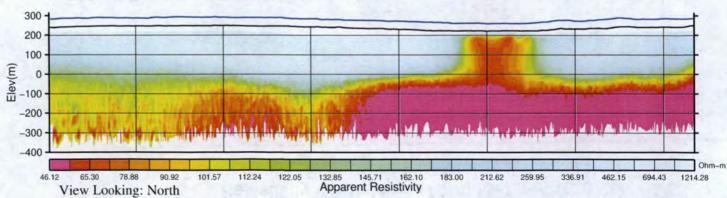
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

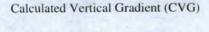
VTEM System: VTEMplus (Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

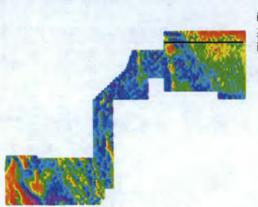






# Resistivity Depth Image (RDI) for Line 1040 Client: Declan Resources Inc. Block: Maybelle North



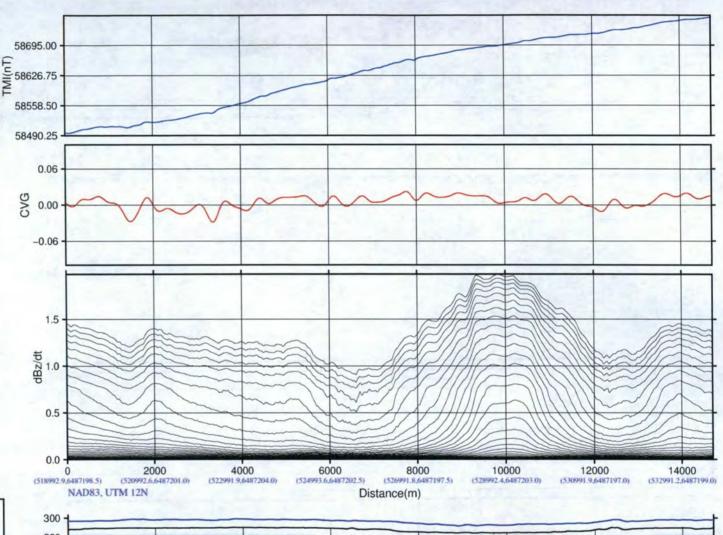


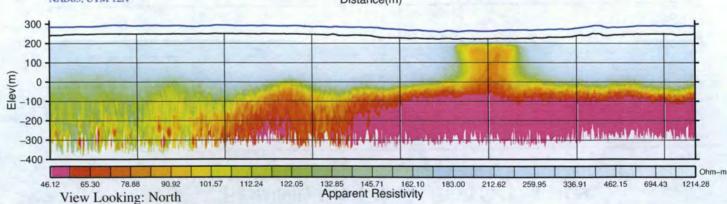
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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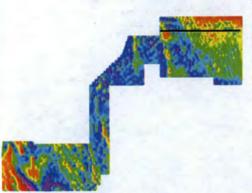






#### Resistivity Depth Image (RDI) for Line 1050 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

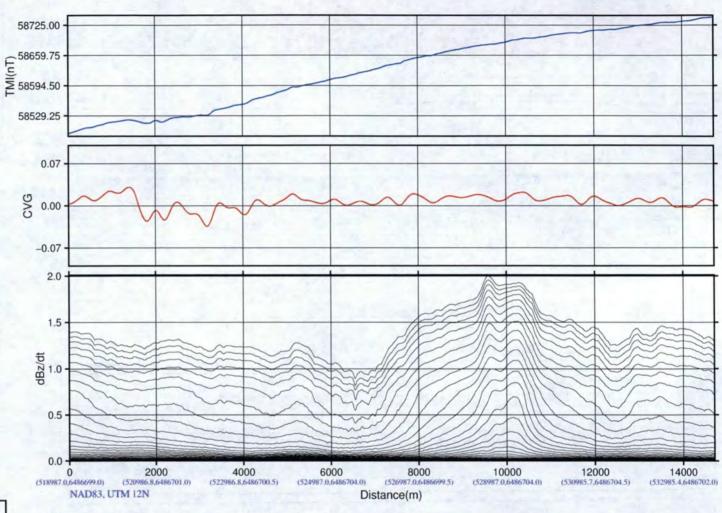


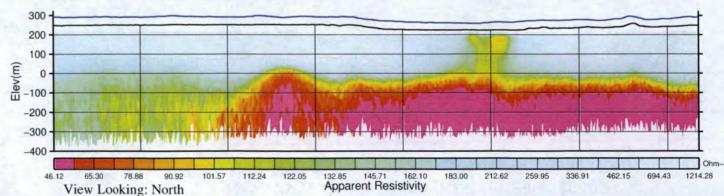
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

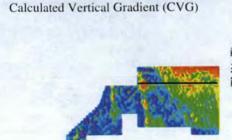
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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# Resistivity Depth Image (RDI) for Line 1060 Client: Declan Resources Inc. Block: Maybelle North

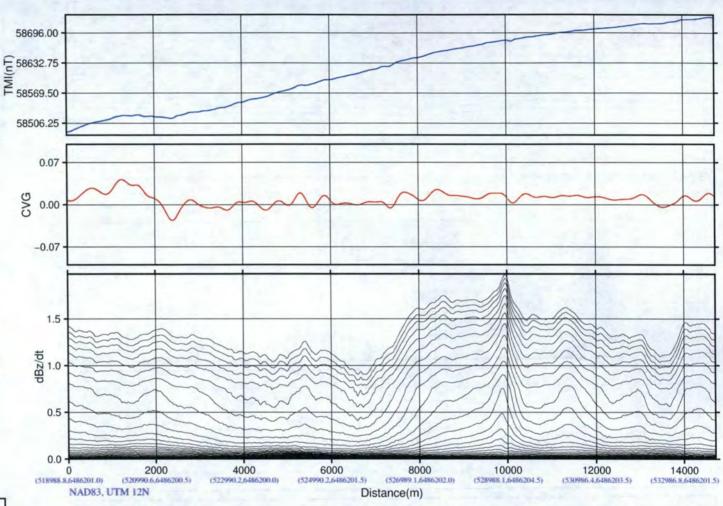


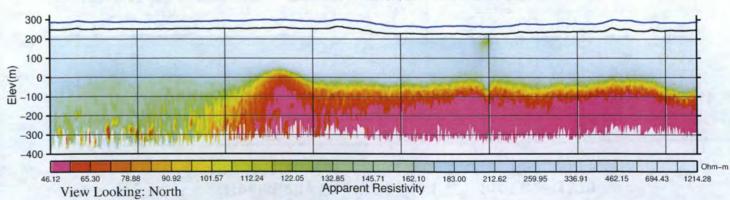
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

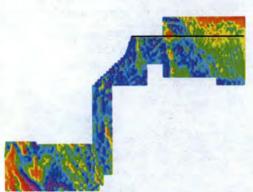






#### Resistivity Depth Image (RDI) for Line 1070 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



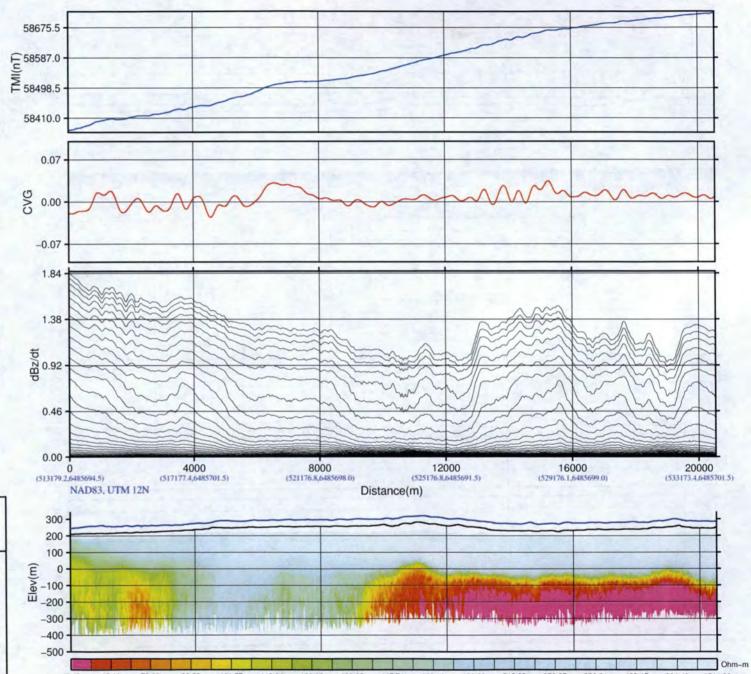
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

2014/5/15

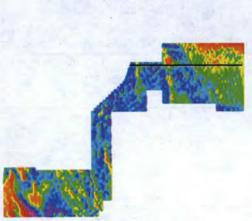


Apparent Resistivity

View Looking: North

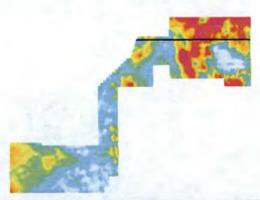


# Resistivity Depth Image (RDI) for Line 1080 Client: Declan Resources Inc. Block: Maybelle North



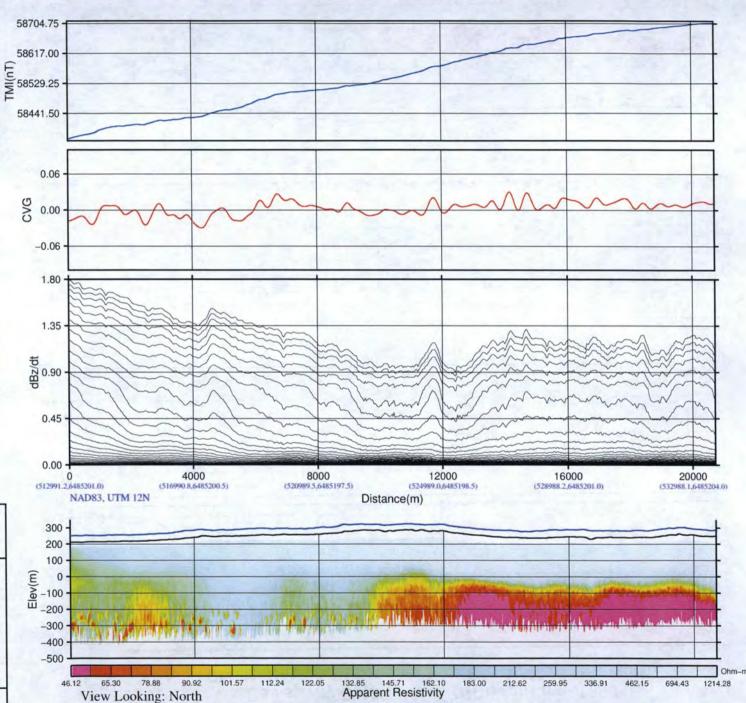
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

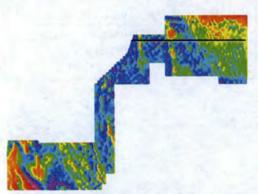
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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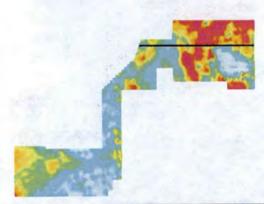


#### Resistivity Depth Image (RDI) for Line 1090 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



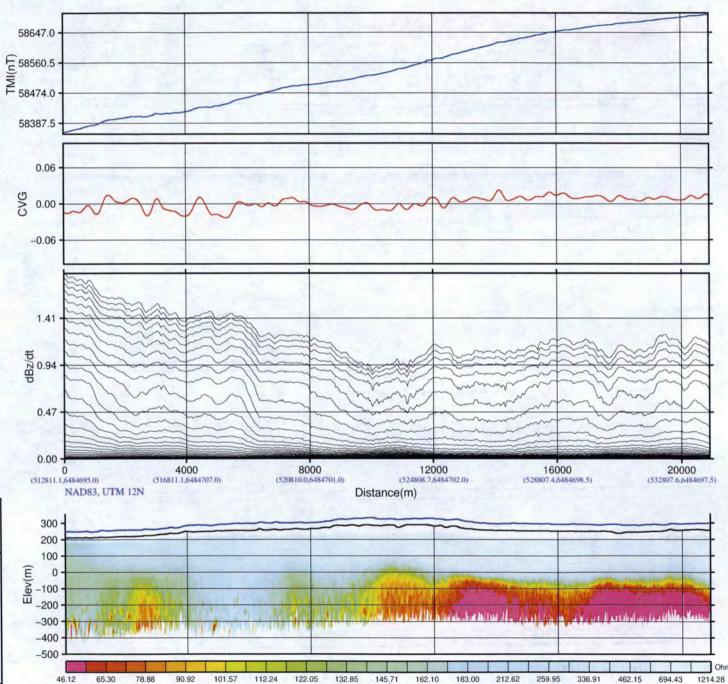
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

2014/5/15



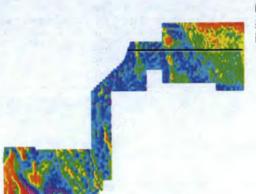
Apparent Resistivity

View Looking: North

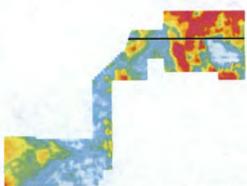


# Resistivity Depth Image (RDI) for Line 1100 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



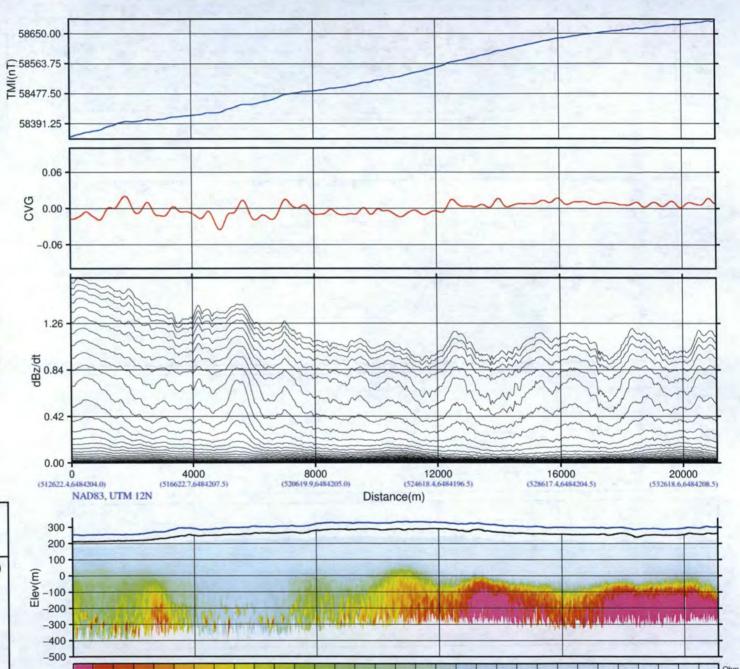
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15



132.85 145.71 162.10 Apparent Resistivity

183.00

212.62

259.95

336.91

462.15

694.43

1214.28

78.88

View Looking: North

90.92

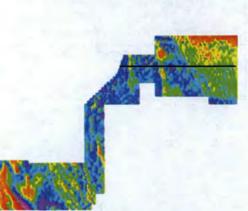
112.24

122.05

132.85

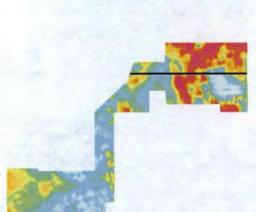


#### Resistivity Depth Image (RDI) for Line 1110 Client: Declan Resources Inc. Block: Maybelle North



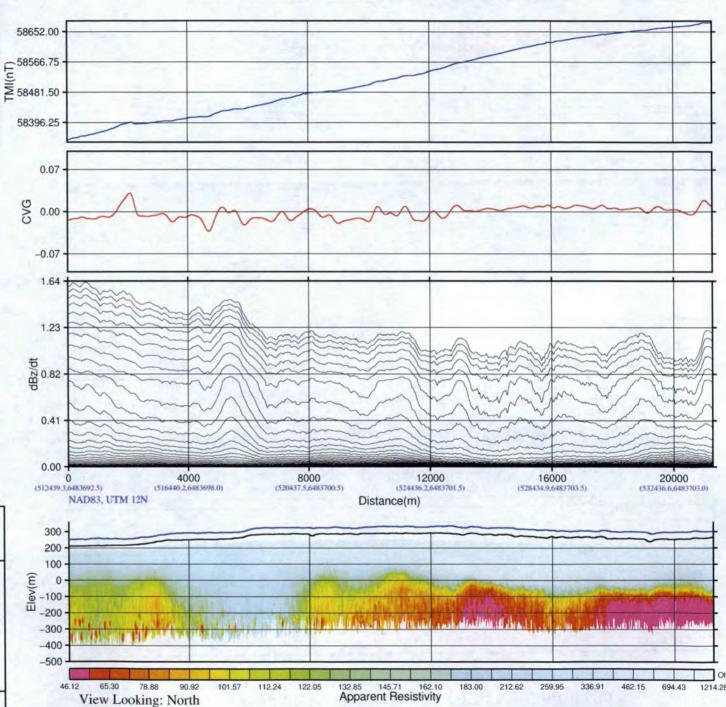
dB/dt Decay Constant (Tau)

Calculated Vertical Gradient (CVG)



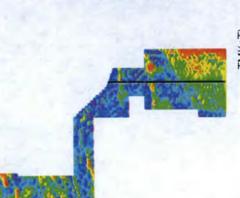
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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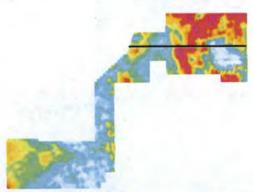


## Resistivity Depth Image (RDI) for Line 1120 Client: Declan Resources Inc. Block: Maybelle North



Calculated Vertical Gradient (CVG)

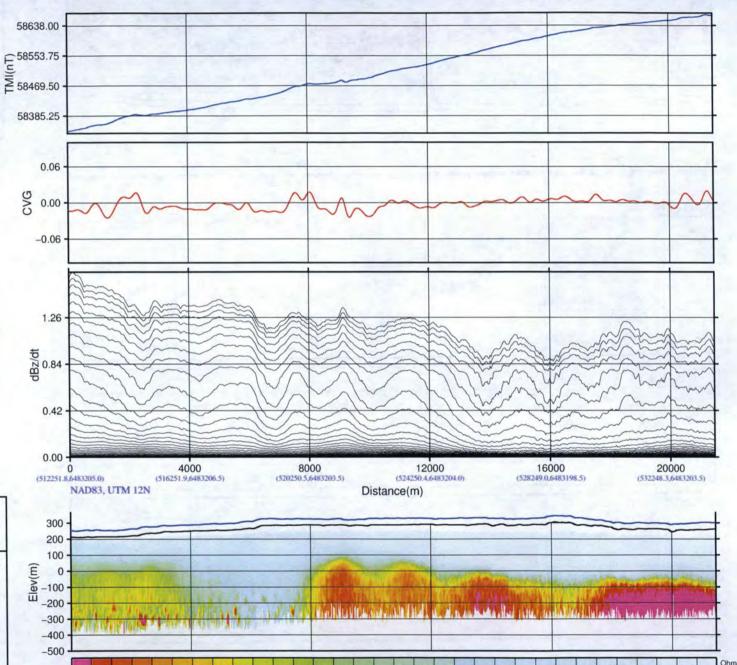
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

2014/5/15



Apparent Resistivity

212.62

259.95

336.91

462.15

694.43

1214.28

78.88

View Looking: North

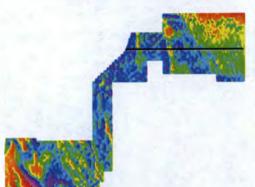
112.24

122.05

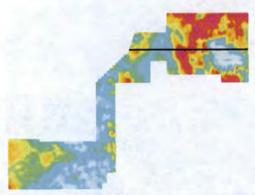


#### Resistivity Depth Image (RDI) for Line 1130 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



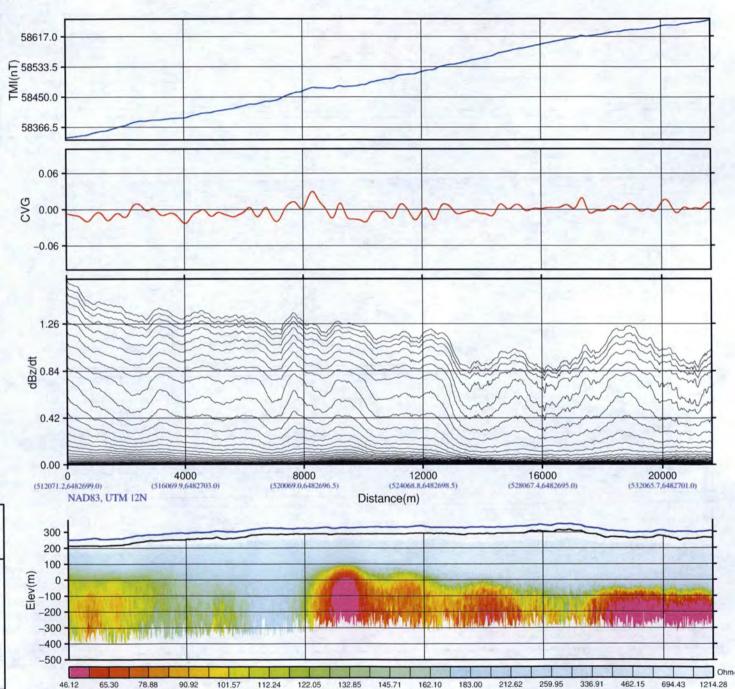
dB/dt Decay Constant (Tau)



Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

2014/5/15

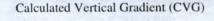


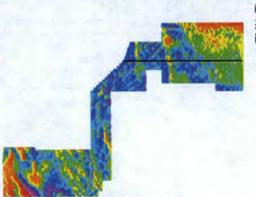
Apparent Resistivity

View Looking: North

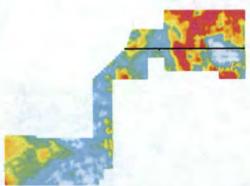


# Resistivity Depth Image (RDI) for Line 1140 Client: Declan Resources Inc. Block: Maybelle North





dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15

78.88

View Looking: North

112.24

122.05

162.10

183.00

212.62

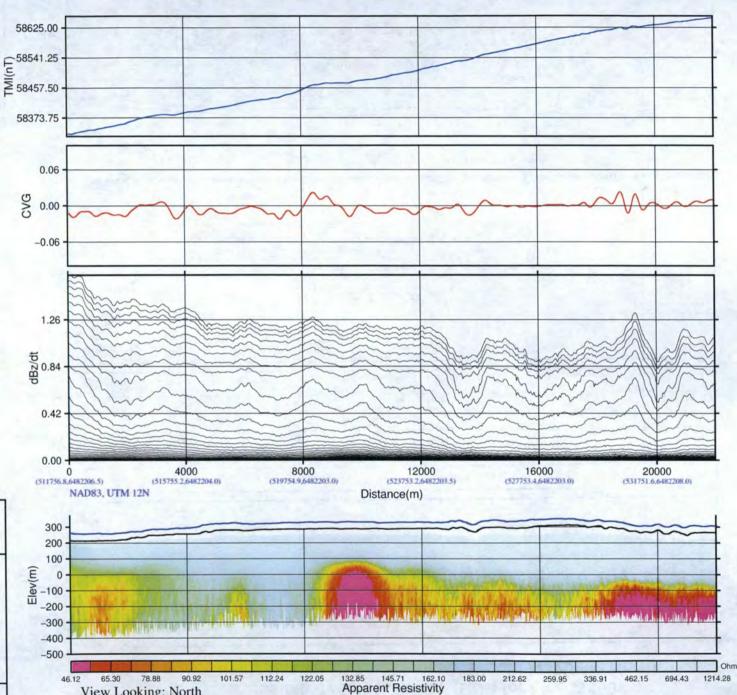
259.95

336.91

462.15

694.43

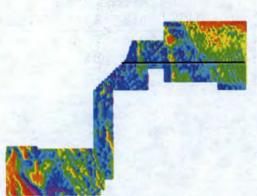
1214.28



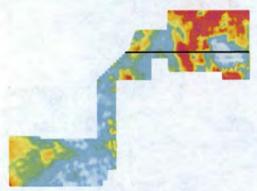


#### Resistivity Depth Image (RDI) for Line 1150 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

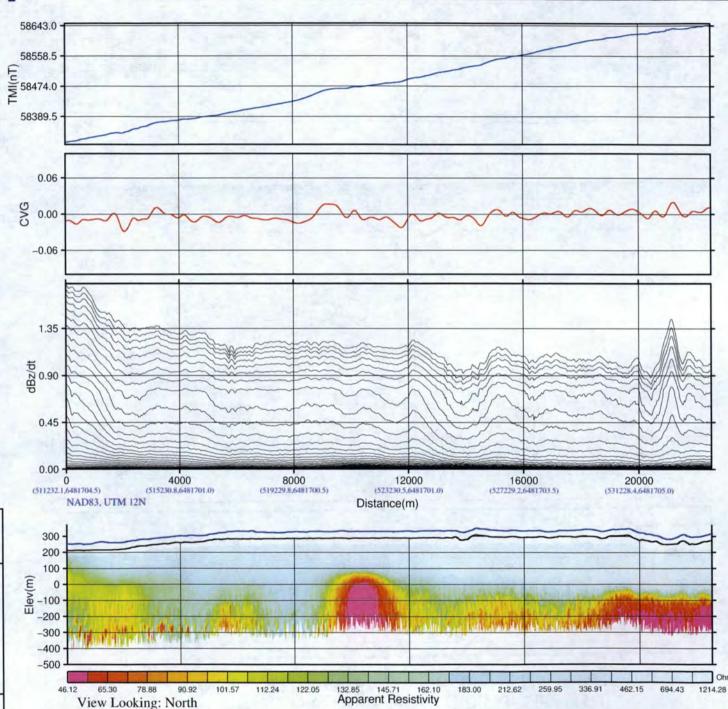


dB/dt Decay Constant (Tau)



Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

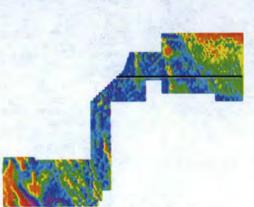
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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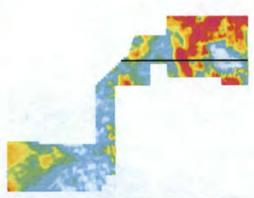


# Resistivity Depth Image (RDI) for Line 1160 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



dB/dt Decay Constant (Tau)

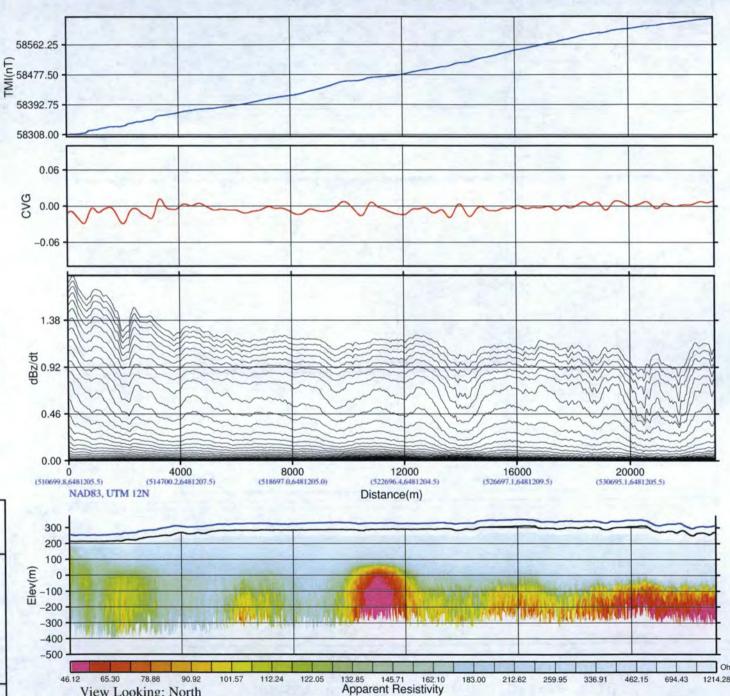


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15

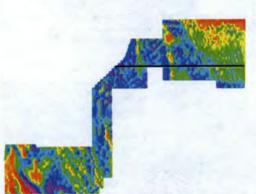
View Looking: North



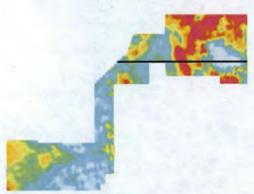


## Resistivity Depth Image (RDI) for Line 1170 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

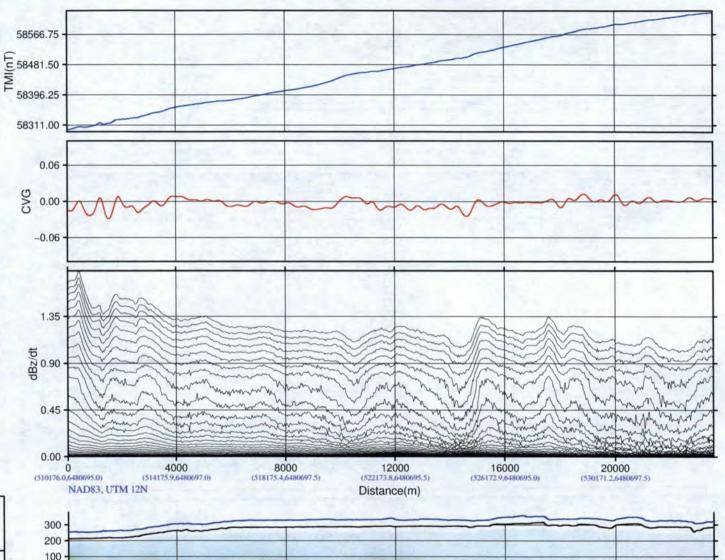


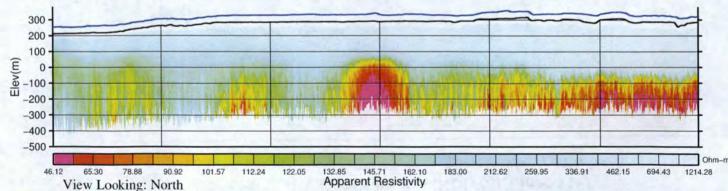
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

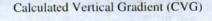
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

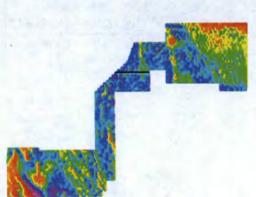






## Resistivity Depth Image (RDI) for Line 1180 Client: Declan Resources Inc. Block: Maybelle North



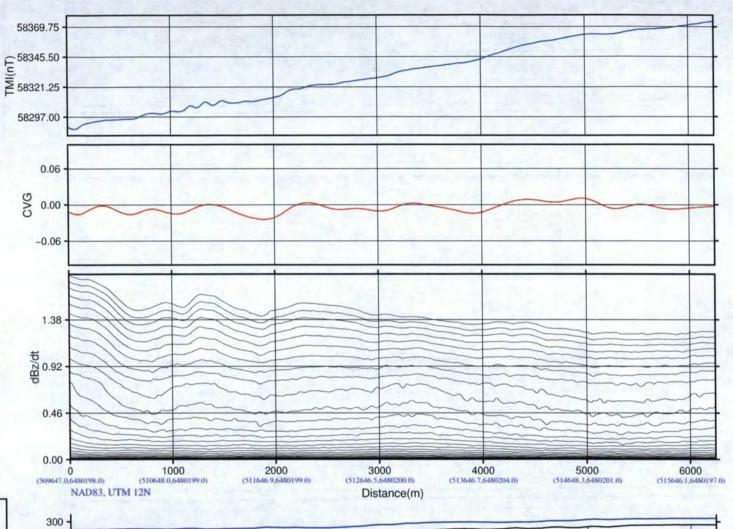


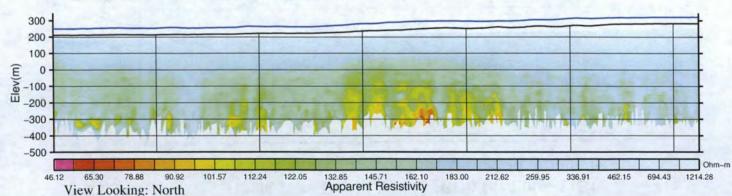
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

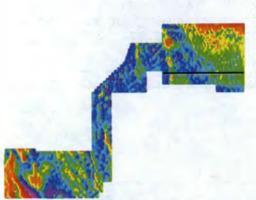




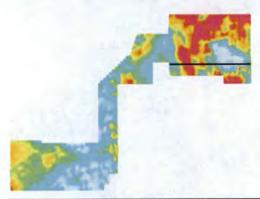


## Resistivity Depth Image (RDI) for Line 1181 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

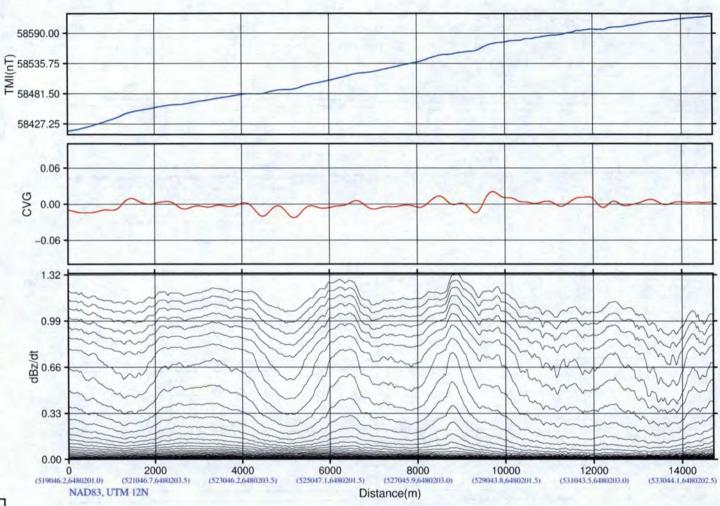


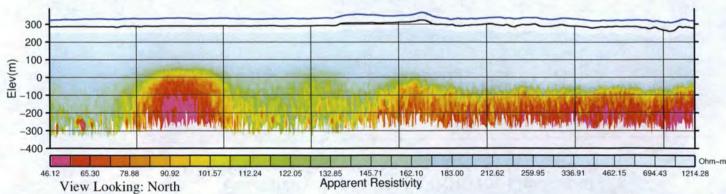
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

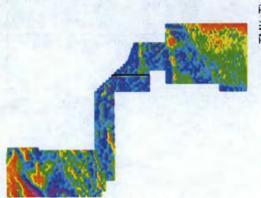




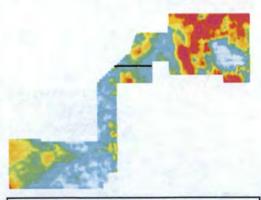


## Resistivity Depth Image (RDI) for Line 1190 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

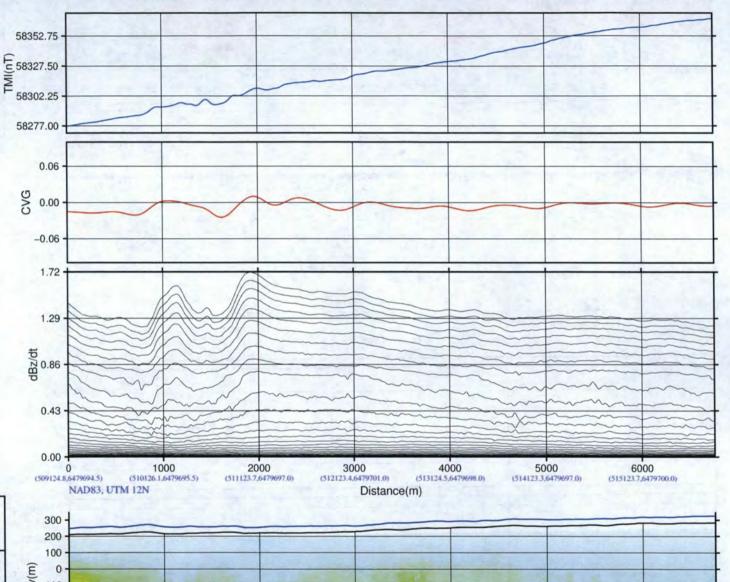


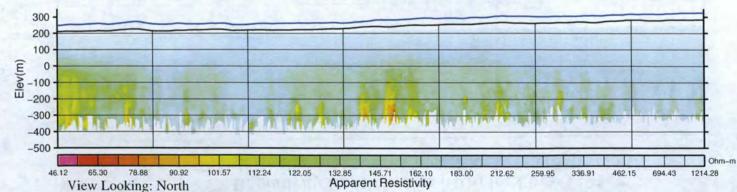
dB/dt Decay Constant (Tau)



Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

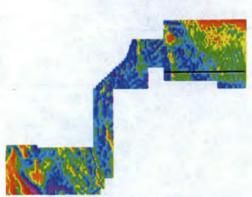




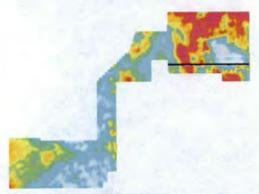


#### Resistivity Depth Image (RDI) for Line 1191 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

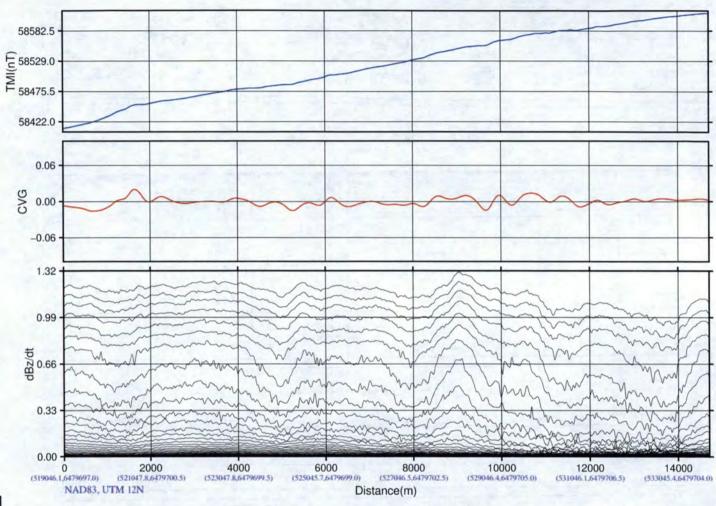


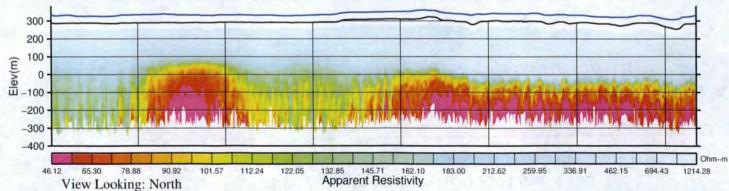
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

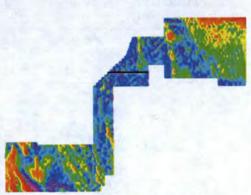




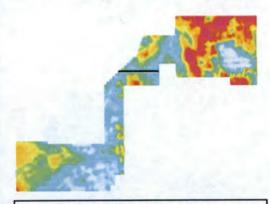


## Resistivity Depth Image (RDI) for Line 1200 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

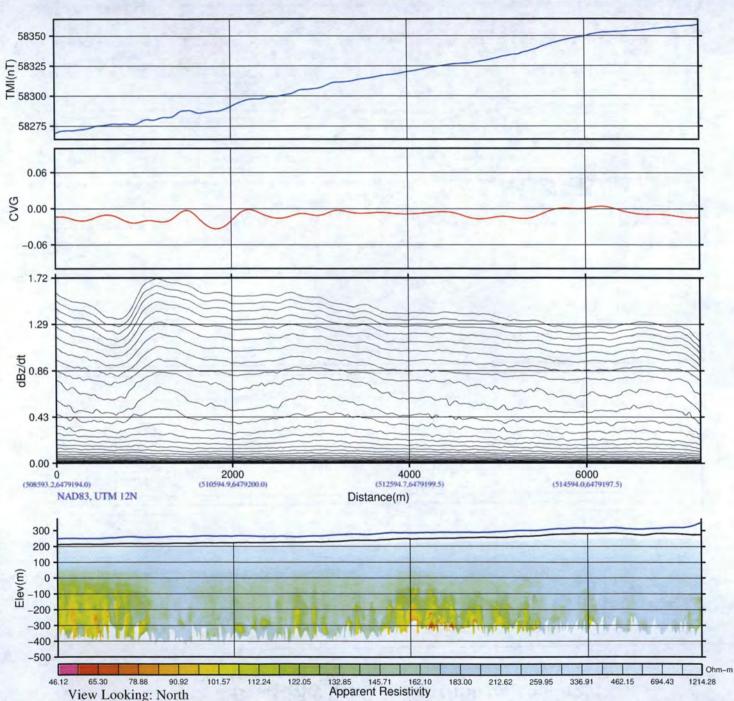


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

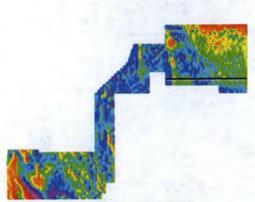
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



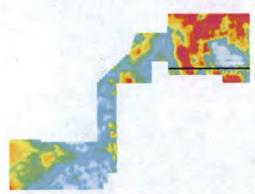


## Resistivity Depth Image (RDI) for Line 1201 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

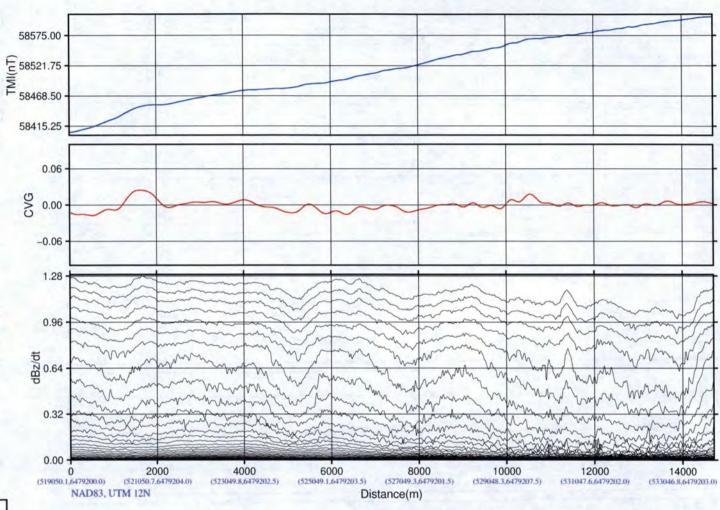


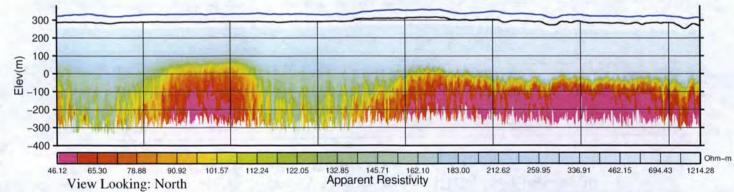
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

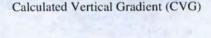
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

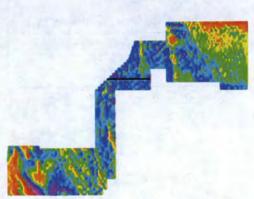




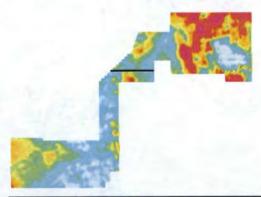


## Resistivity Depth Image (RDI) for Line 1210 Client: Declan Resources Inc. Block: Maybelle North



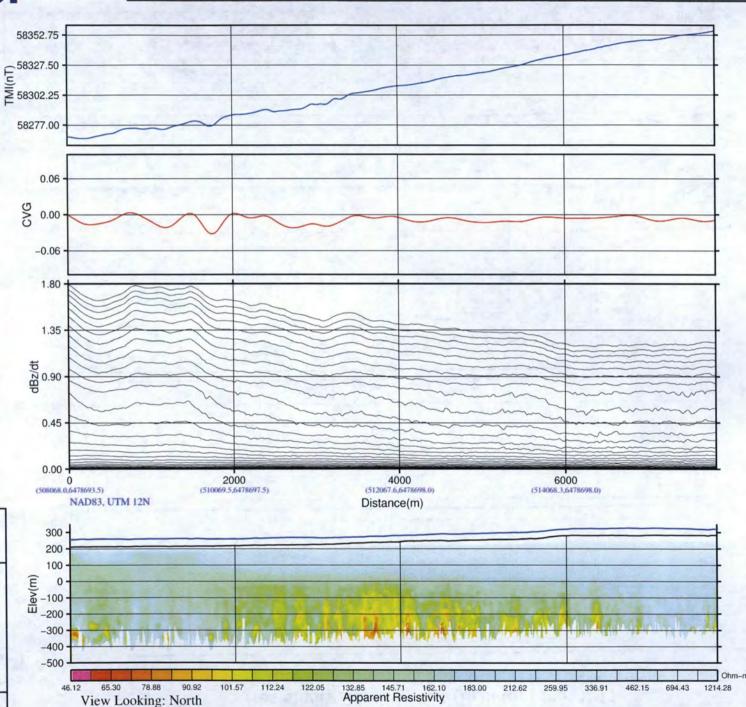


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

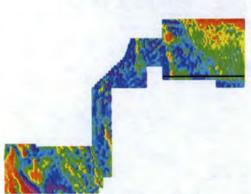
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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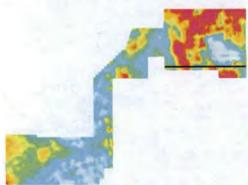


#### Resistivity Depth Image (RDI) for Line 1211 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

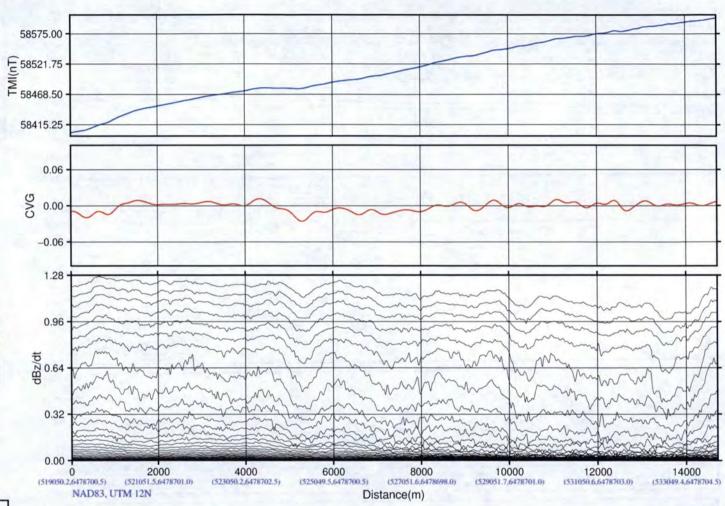


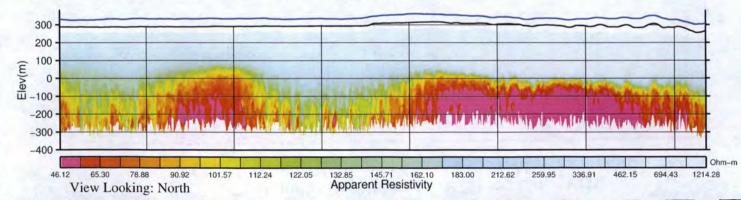
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

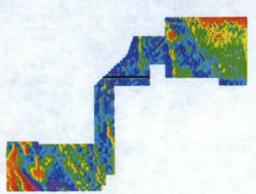






#### Resistivity Depth Image (RDI) for Line 1220 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

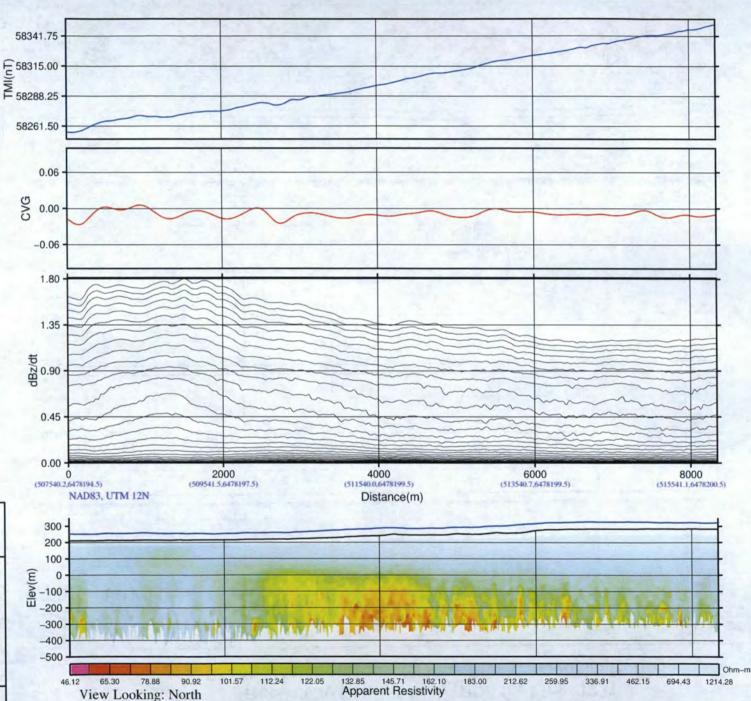


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

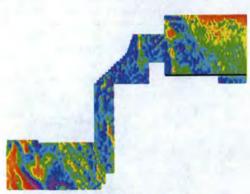
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



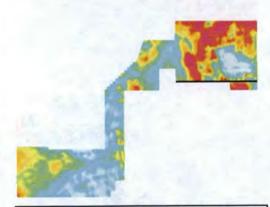


#### Resistivity Depth Image (RDI) for Line 1221 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



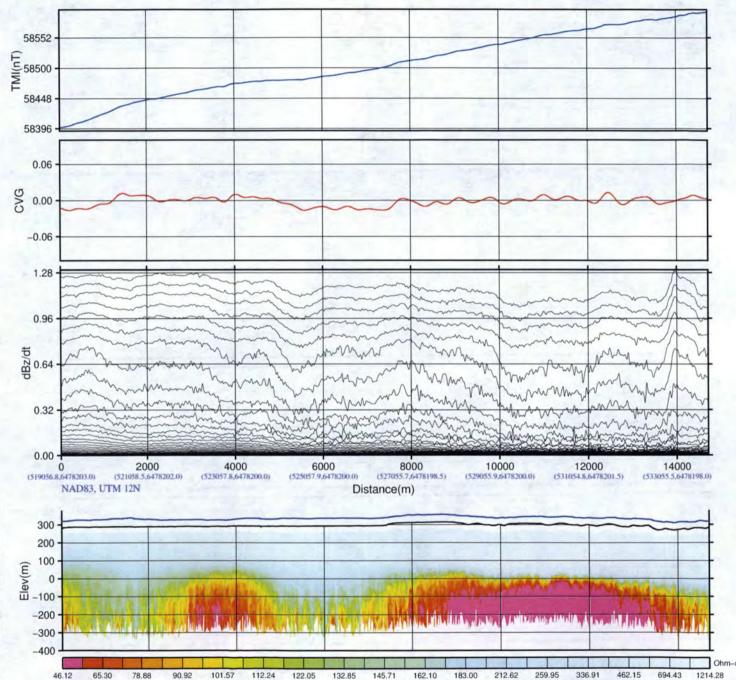
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

2014/5/15

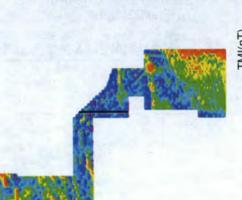


Apparent Resistivity

View Looking: North



## Resistivity Depth Image (RDI) for Line 1230 Client: Declan Resources Inc. Block: Maybelle North



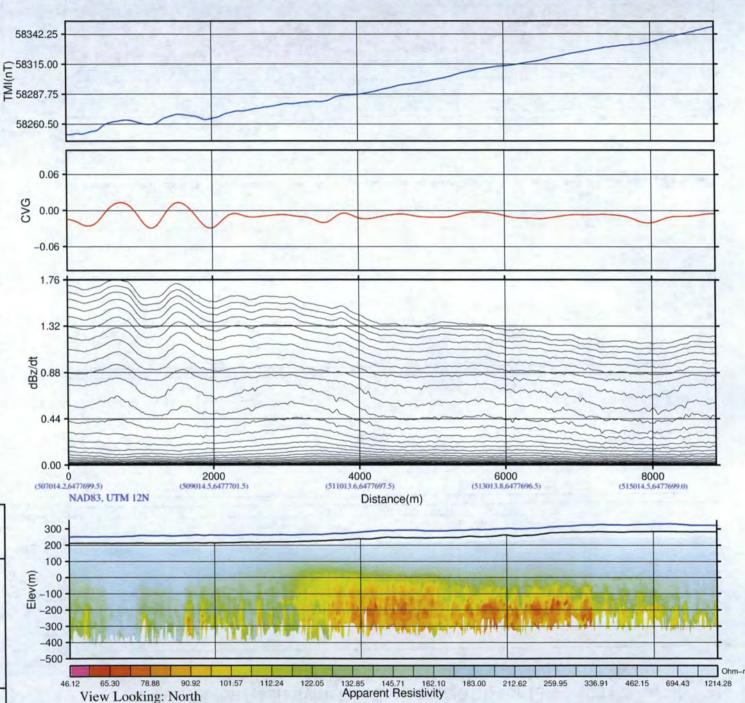
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



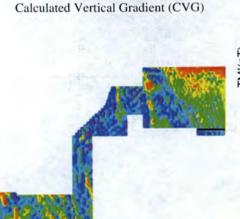
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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### Resistivity Depth Image (RDI) for Line 1231 Client: Declan Resources Inc. Block: Maybelle North



dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

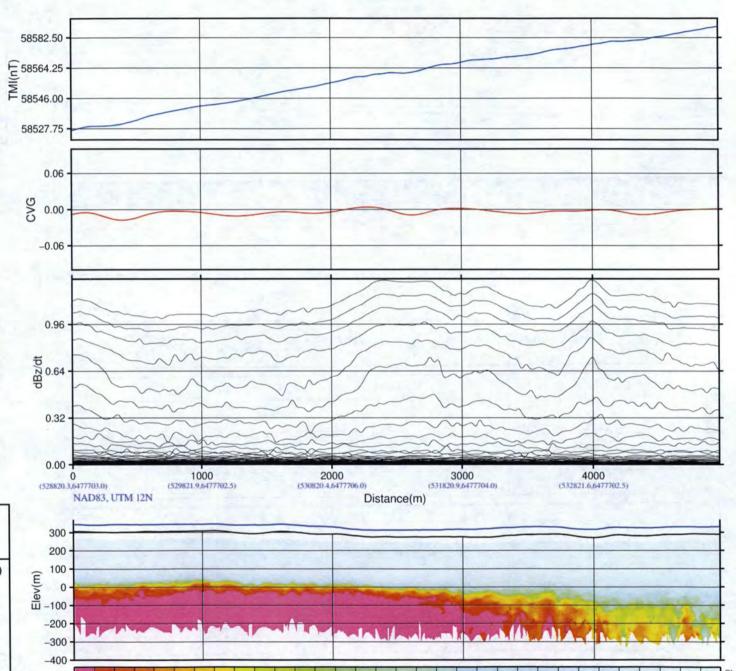
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

2014/5/15

78.88

View Looking: North

112.24



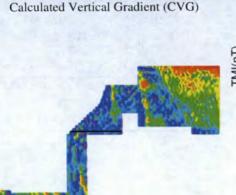
145.71

Apparent Resistivity

162.10



## Resistivity Depth Image (RDI) for Line 1240 Client: Declan Resources Inc. Block: Maybelle North

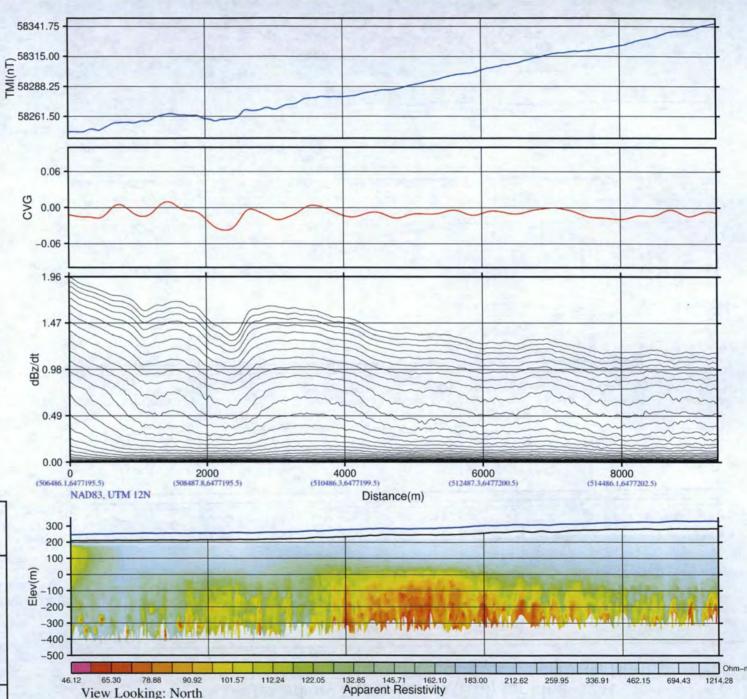


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

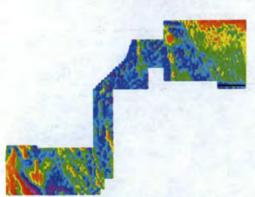
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



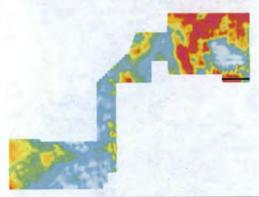


### Resistivity Depth Image (RDI) for Line 1241 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

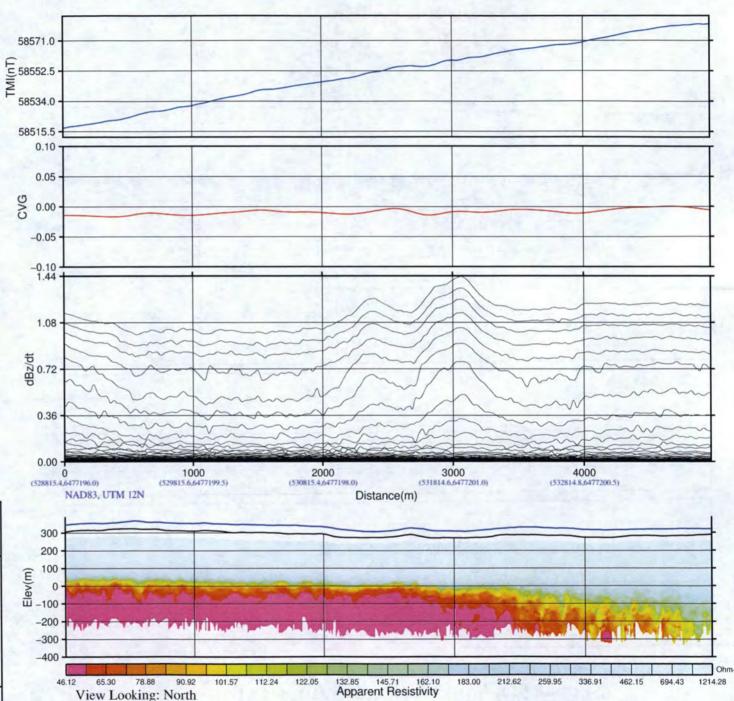


dB/dt Decay Constant (Tau)



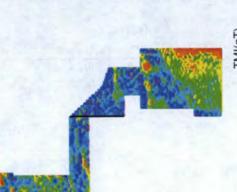
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



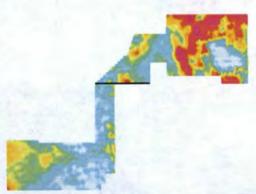


# Resistivity Depth Image (RDI) for Line 1250 Client: Declan Resources Inc. Block: Maybelle North



Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)

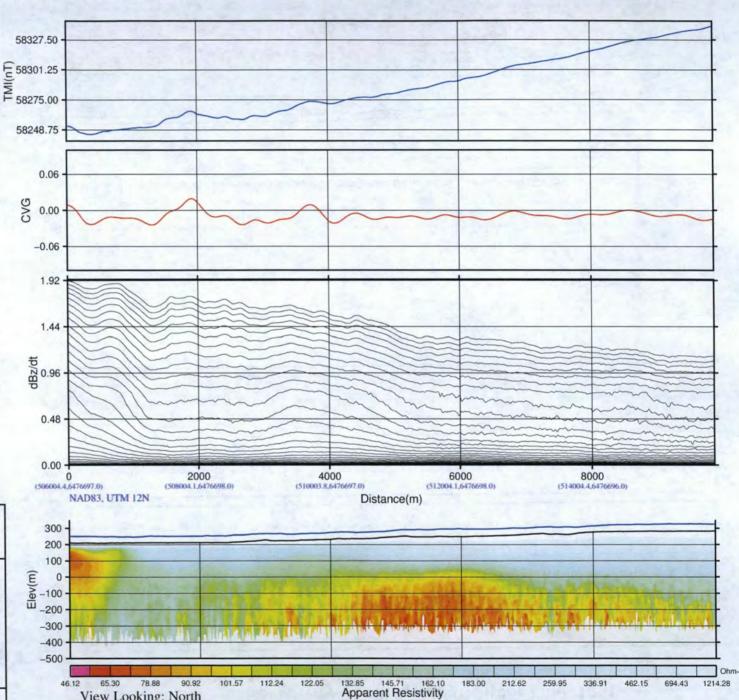


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15

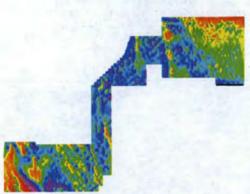
View Looking: North



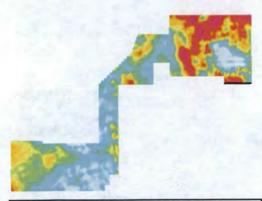


#### Resistivity Depth Image (RDI) for Line 1251 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



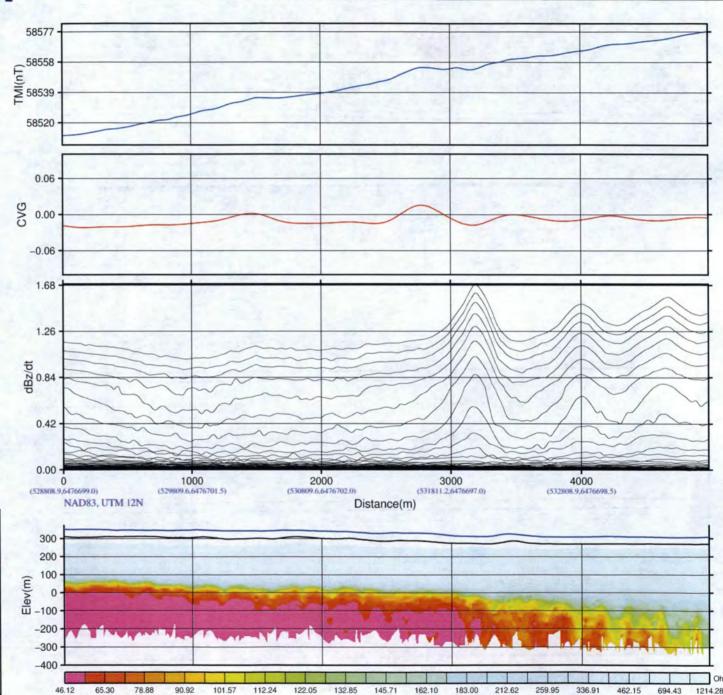
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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2014/5/15

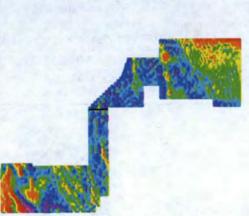


Apparent Resistivity

View Looking: North

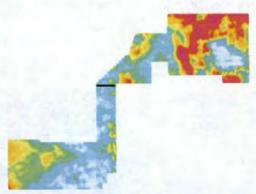


## Resistivity Depth Image (RDI) for Line 1260 Client: Declan Resources Inc. Block: Maybelle North



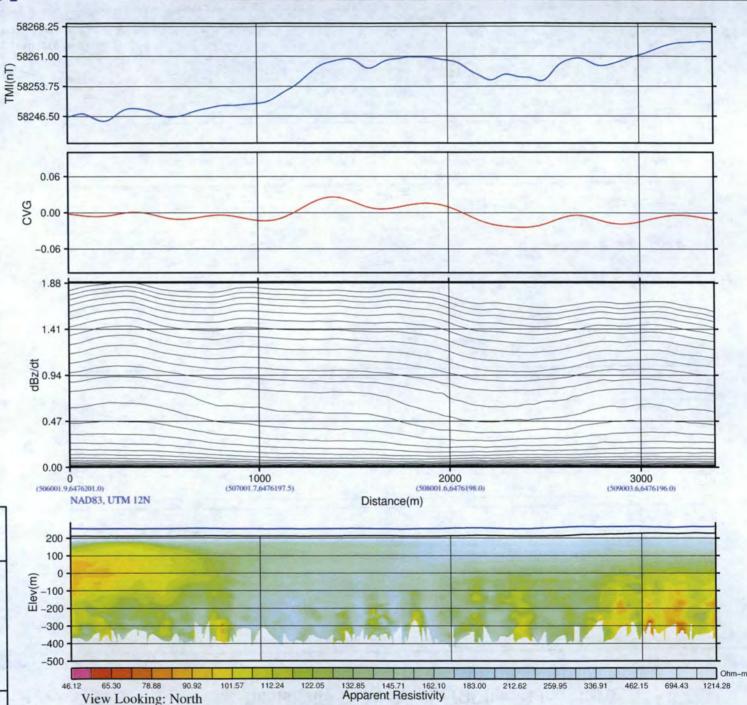
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

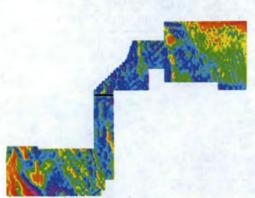
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



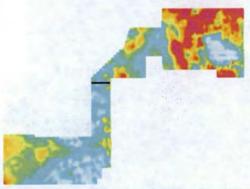


## Resistivity Depth Image (RDI) for Line 1270 Client: Declan Resources Inc. Block: Maybelle North



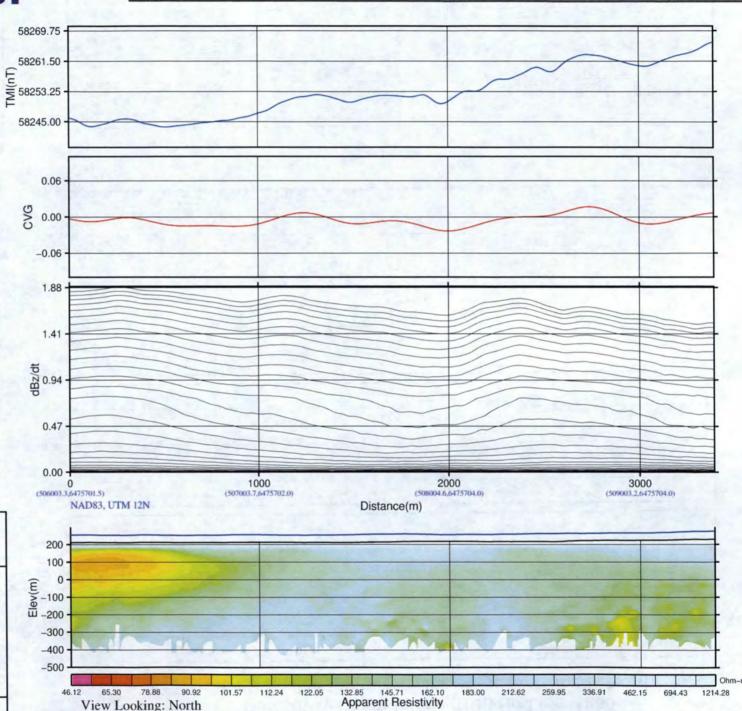


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

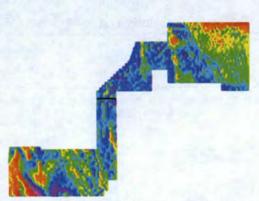
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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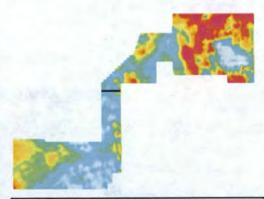


## Resistivity Depth Image (RDI) for Line 1280 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

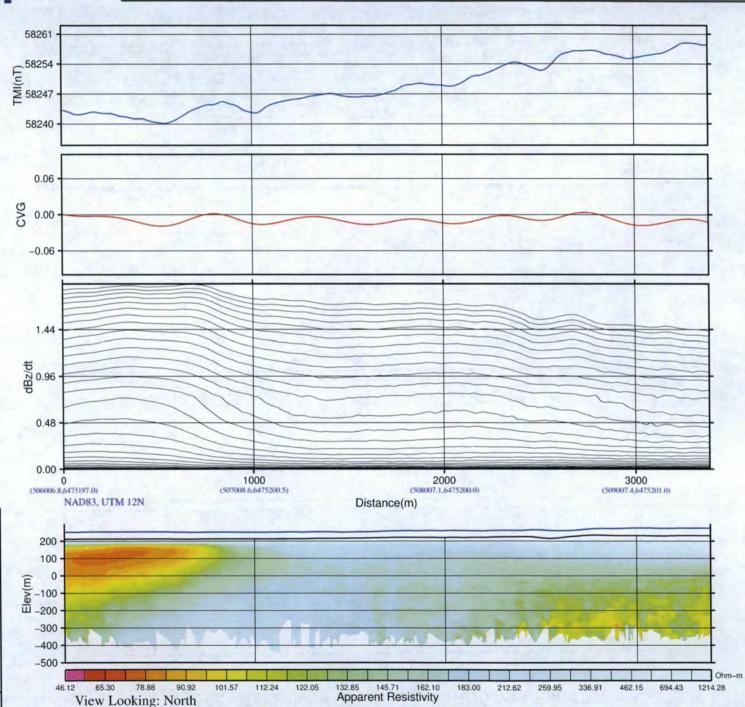


dB/dt Decay Constant (Tau)



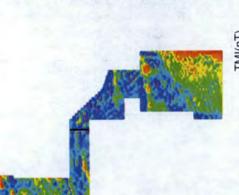
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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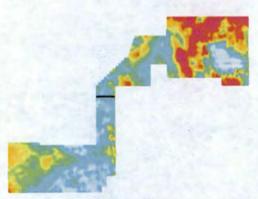


#### Resistivity Depth Image (RDI) for Line 1290 Client: Declan Resources Inc. Block: Maybelle North



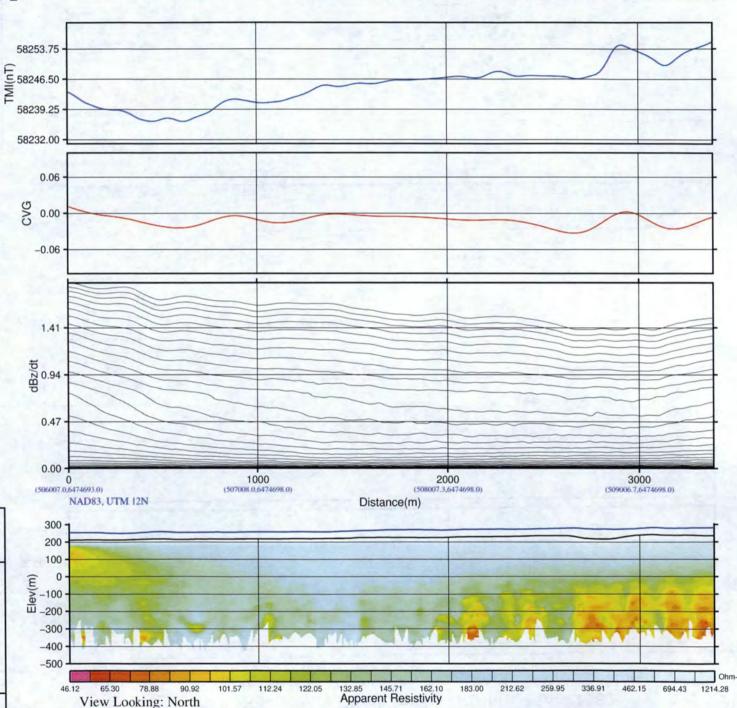
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

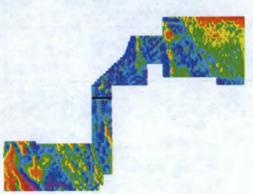
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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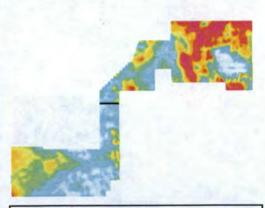


## Resistivity Depth Image (RDI) for Line 1300 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

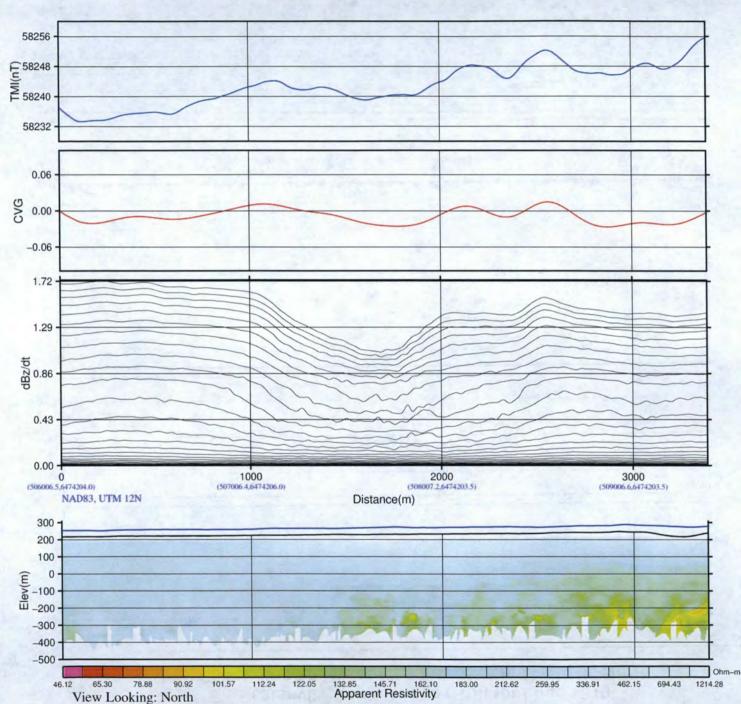


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

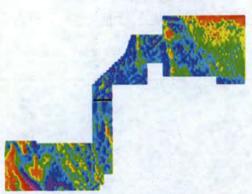
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



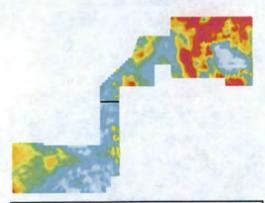


## Resistivity Depth Image (RDI) for Line 1310 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

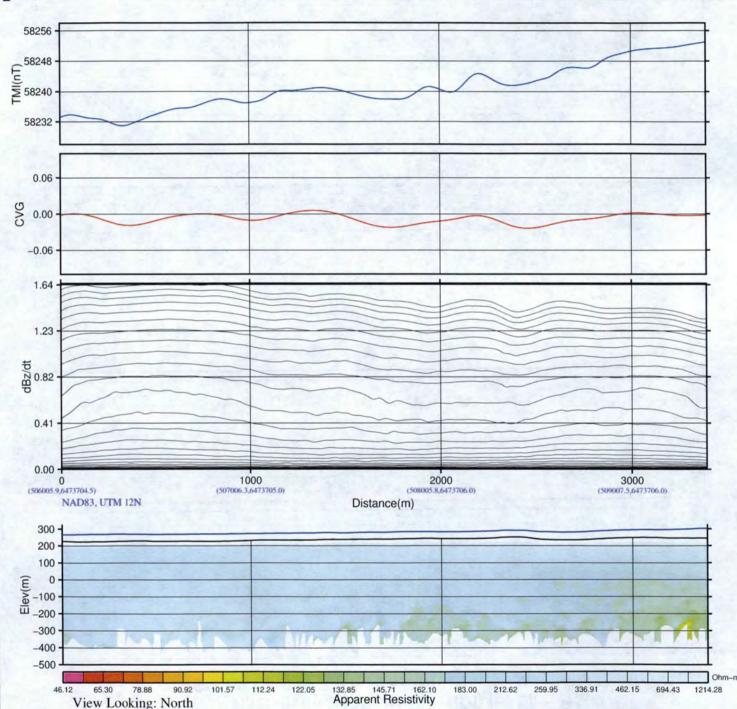


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

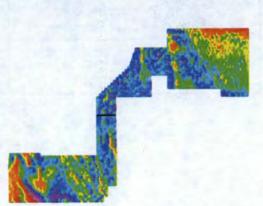
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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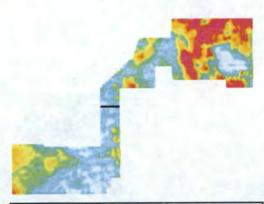


# Resistivity Depth Image (RDI) for Line 1320 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

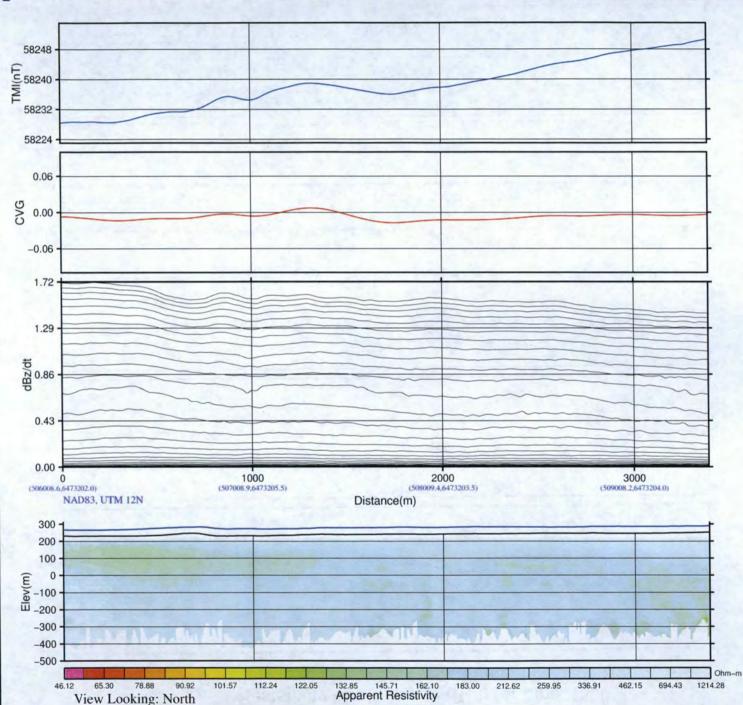


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

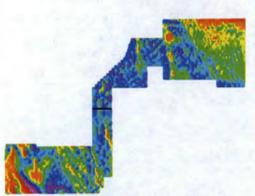
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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## Resistivity Depth Image (RDI) for Line 1330 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

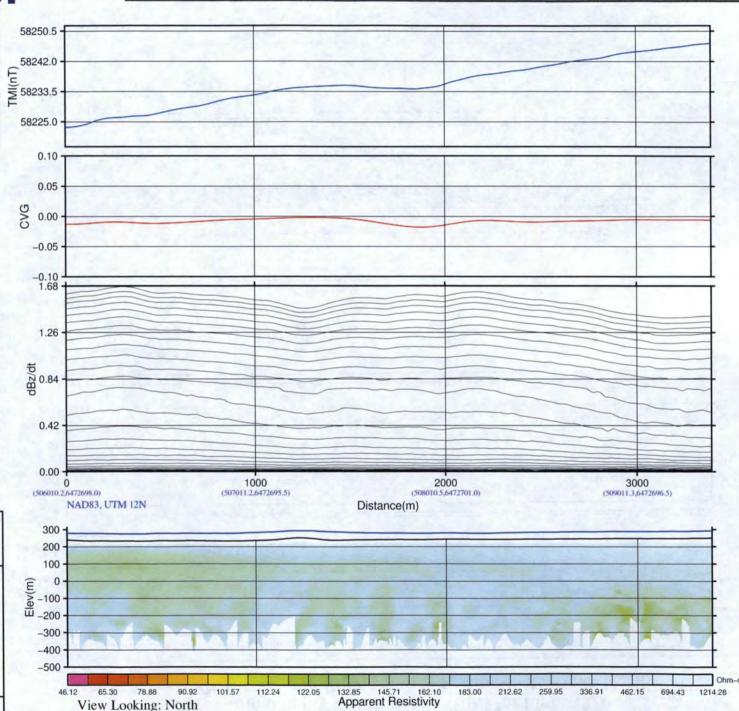


dB/dt Decay Constant (Tau)



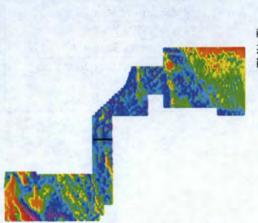
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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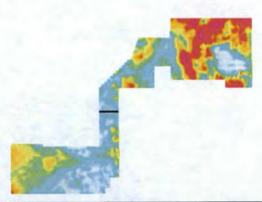


### Resistivity Depth Image (RDI) for Line 1340 Client: Declan Resources Inc. Block: Maybelle North



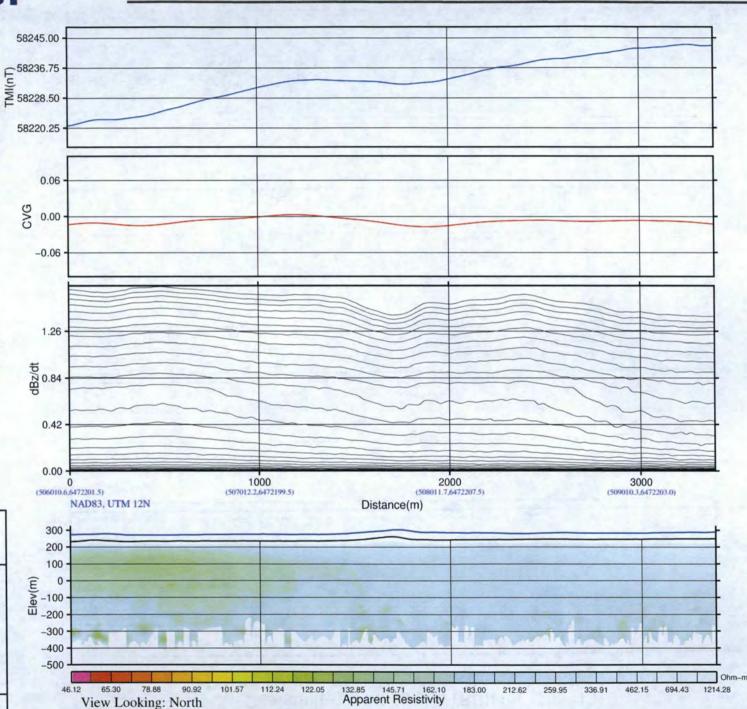
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

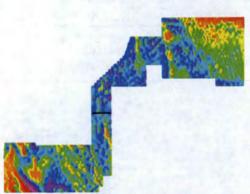
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



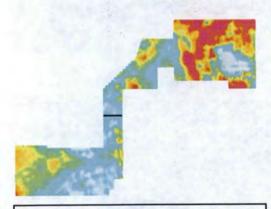


### Resistivity Depth Image (RDI) for Line 1350 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

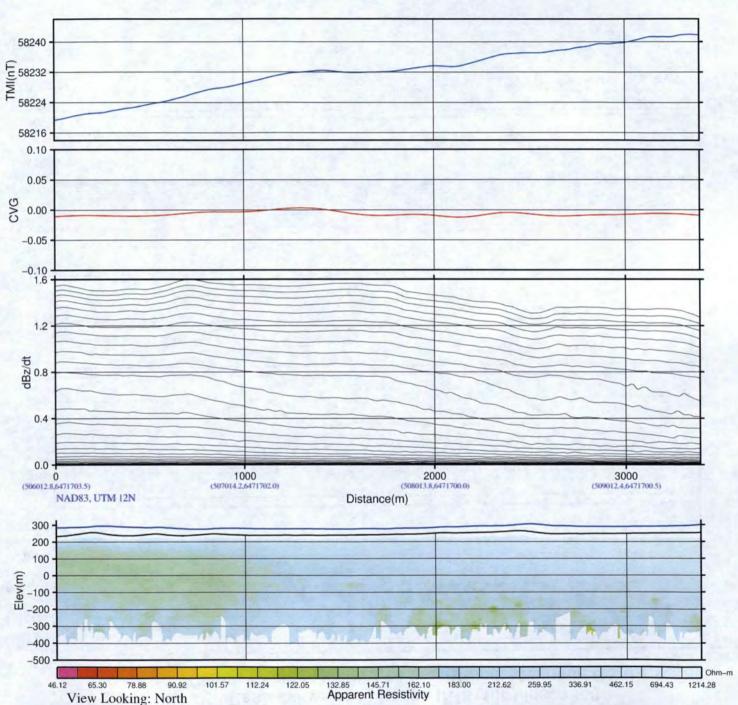


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

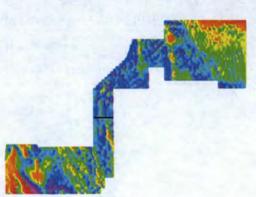
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



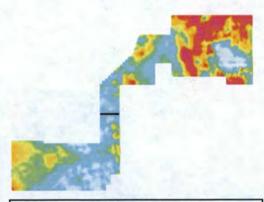


## Resistivity Depth Image (RDI) for Line 1360 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

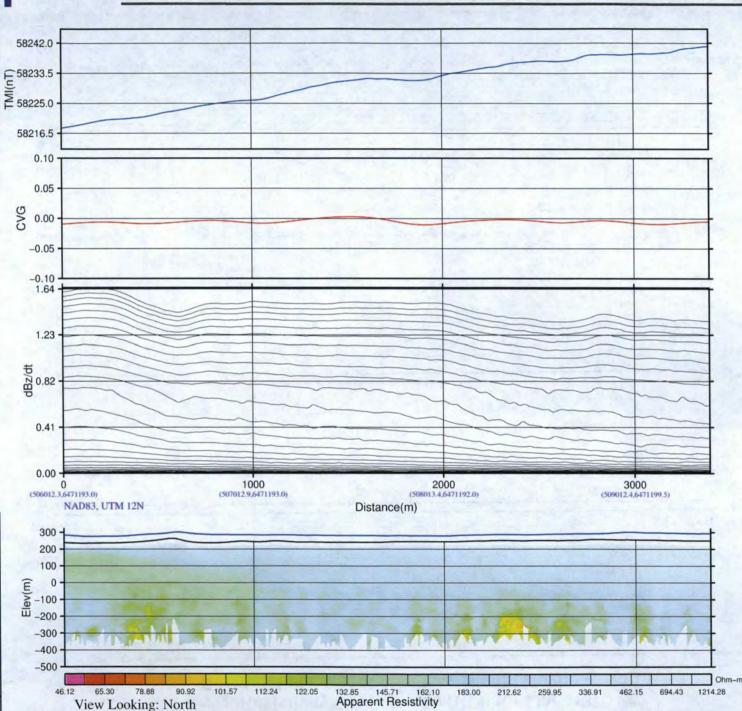


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

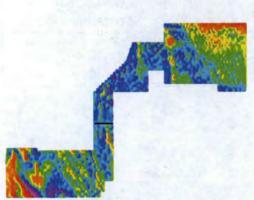
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



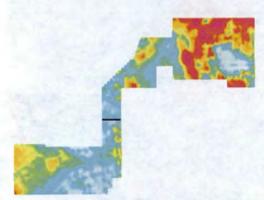


#### Resistivity Depth Image (RDI) for Line 1370 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

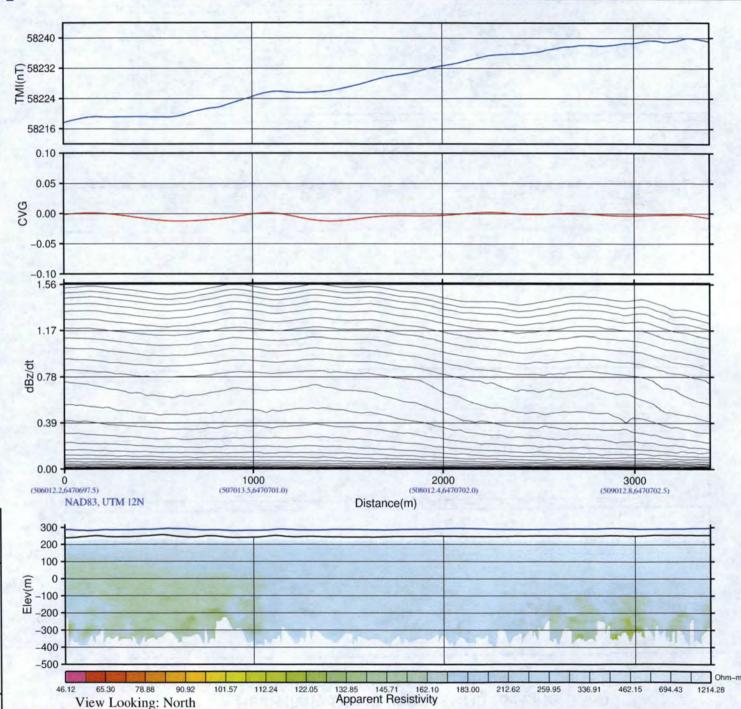


dB/dt Decay Constant (Tau)



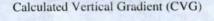
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

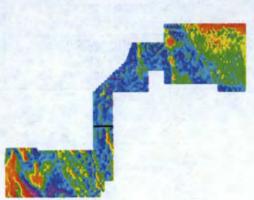
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



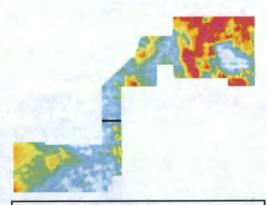


## Resistivity Depth Image (RDI) for Line 1380 Client: Declan Resources Inc. Block: Maybelle North



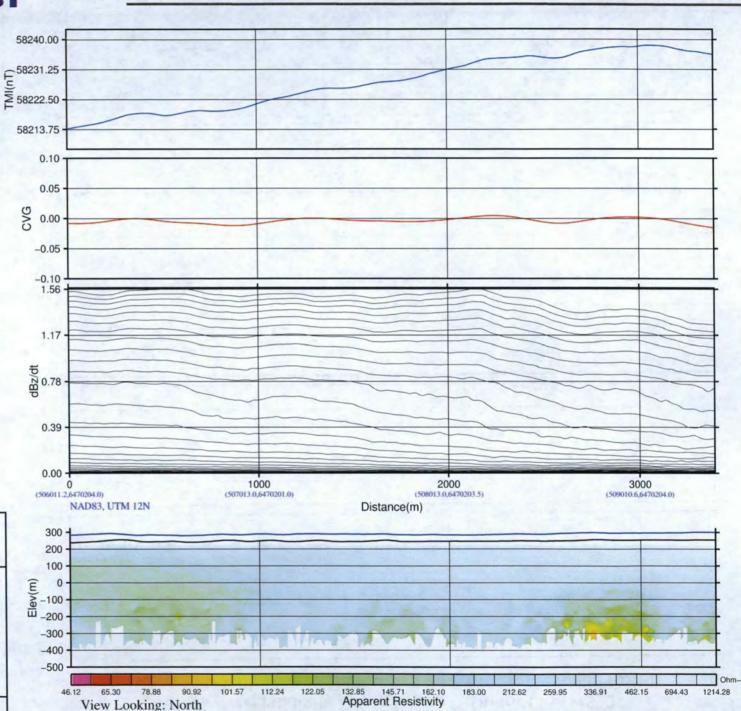


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
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Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



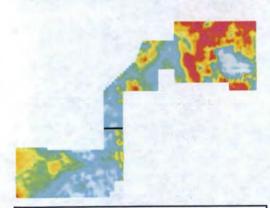


#### Resistivity Depth Image (RDI) for Line 1390 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

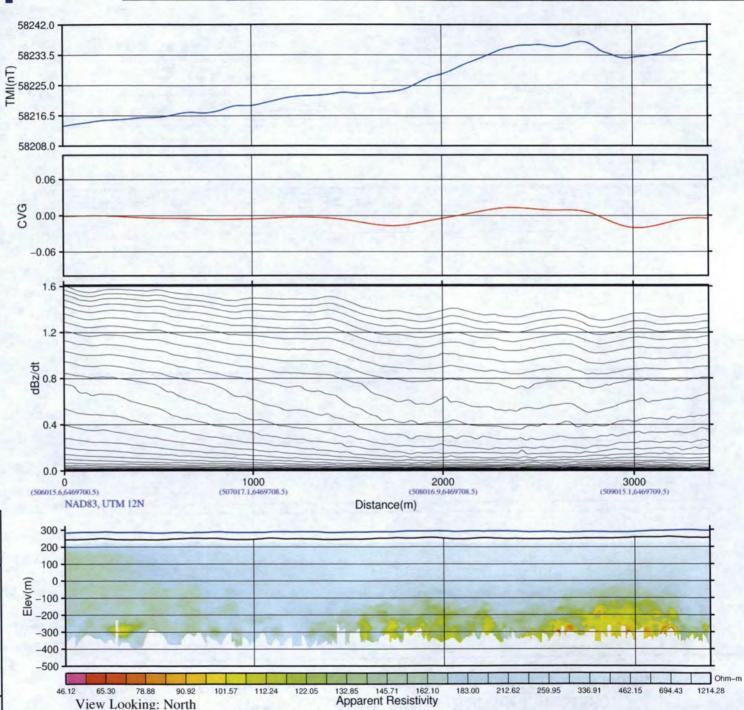


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

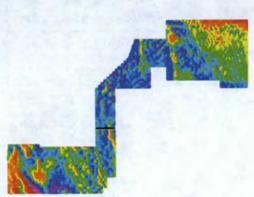
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



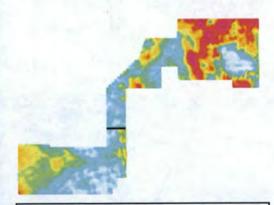


# Resistivity Depth Image (RDI) for Line 1400 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

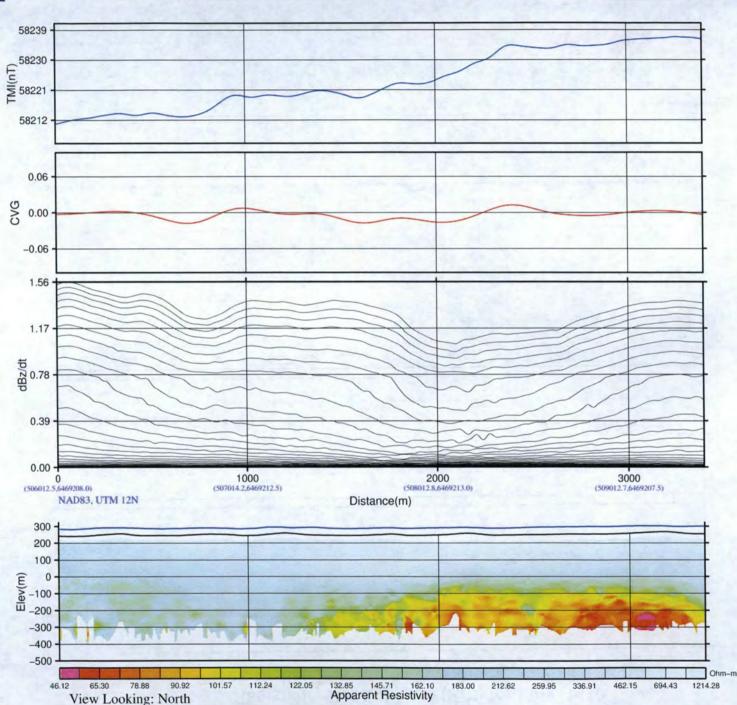


dB/dt Decay Constant (Tau)



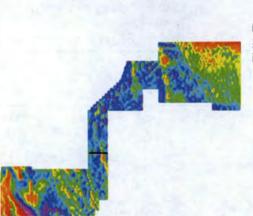
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



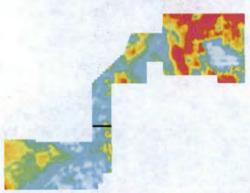


#### Resistivity Depth Image (RDI) for Line 1410 Client: Declan Resources Inc. Block: Maybelle North



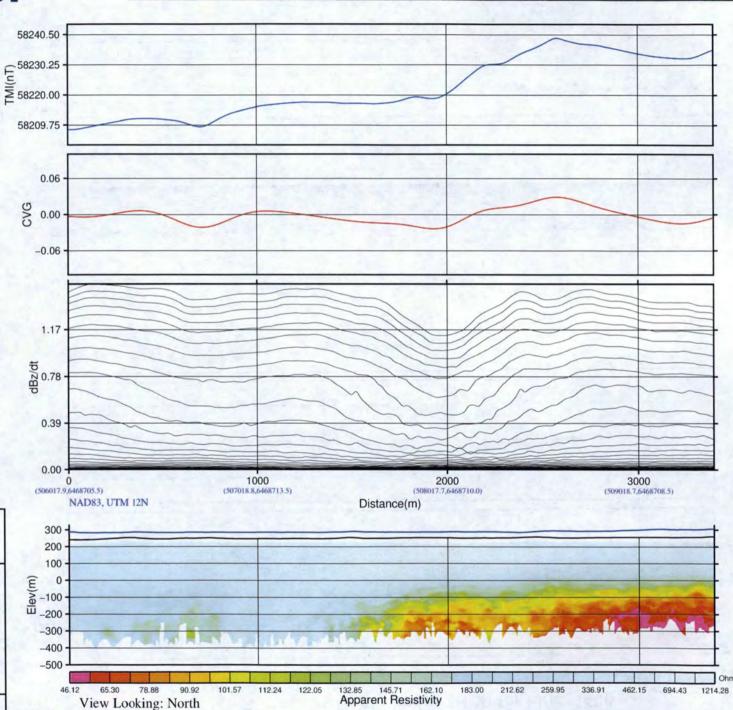
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



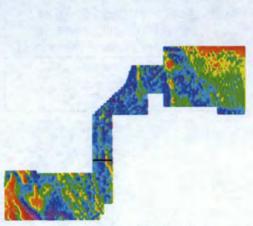
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



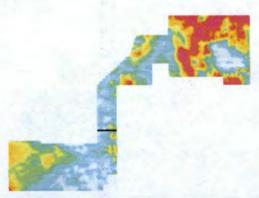


## Resistivity Depth Image (RDI) for Line 1420 Client: Declan Resources Inc. Block: Maybelle North



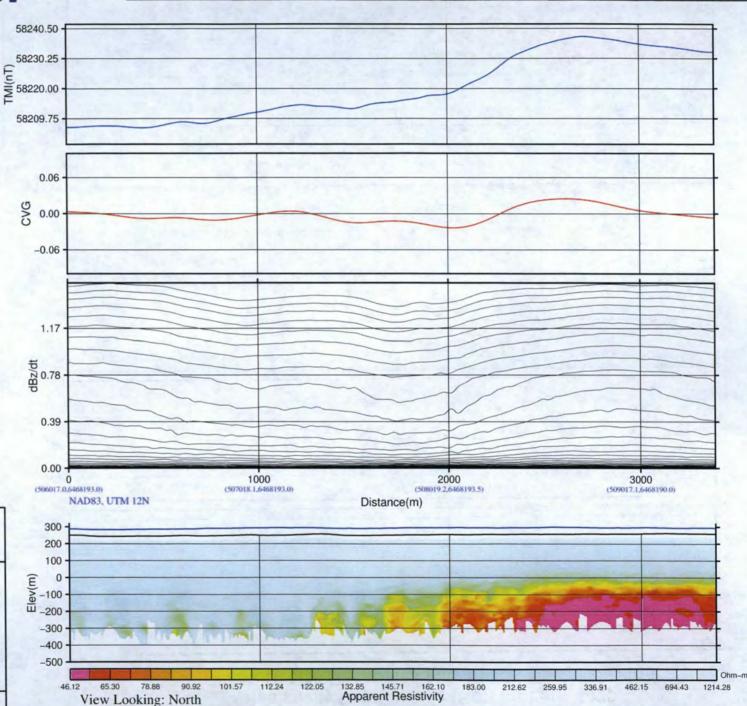
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



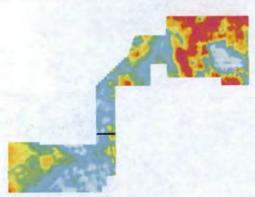


### Resistivity Depth Image (RDI) for Line 1430 Client: Declan Resources Inc. Block: Maybelle North



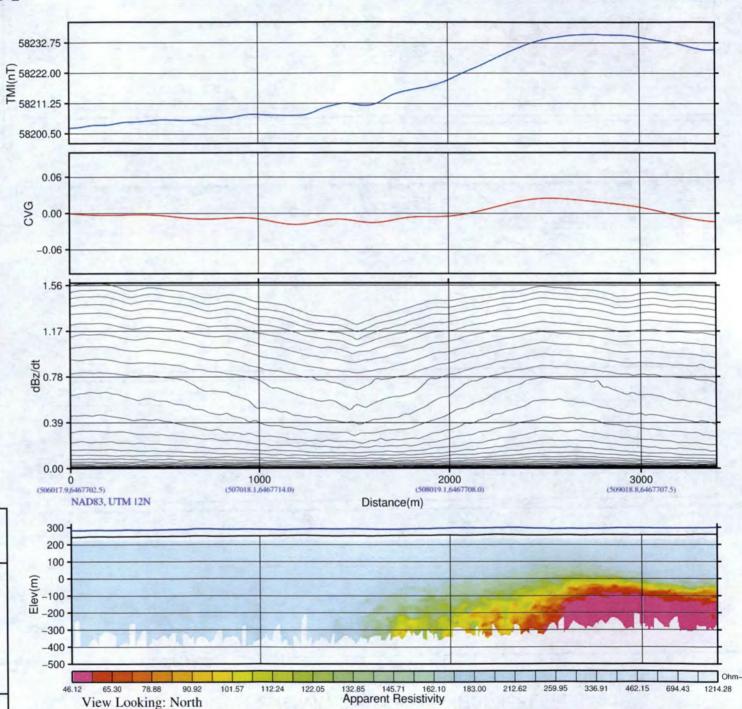
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

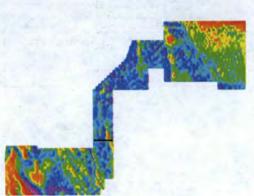
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



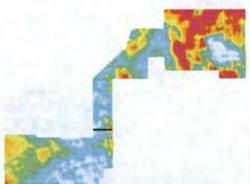


# Resistivity Depth Image (RDI) for Line 1440 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

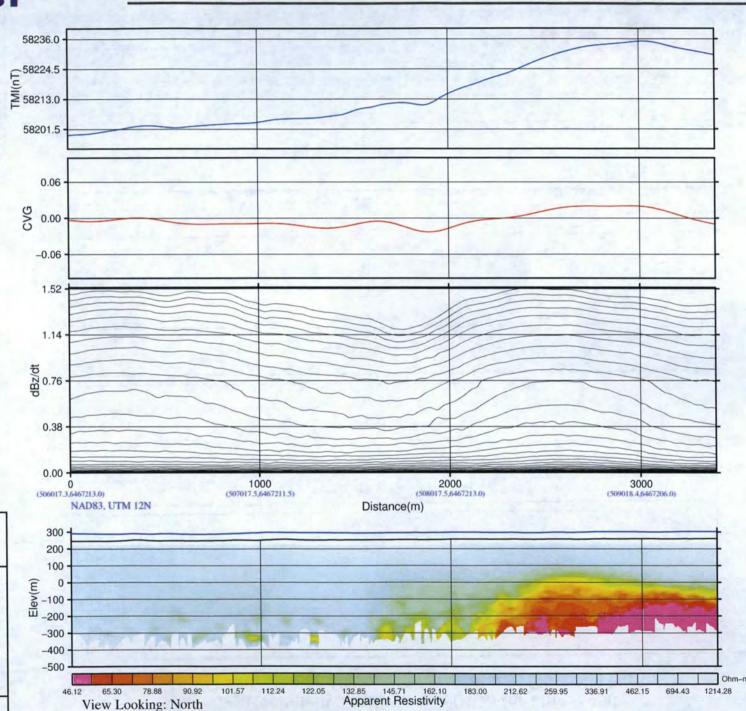


dB/dt Decay Constant (Tau)



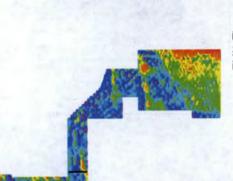
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



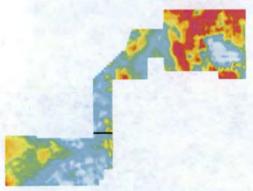


#### Resistivity Depth Image (RDI) for Line 1450 Client: Declan Resources Inc. Block: Maybelle North



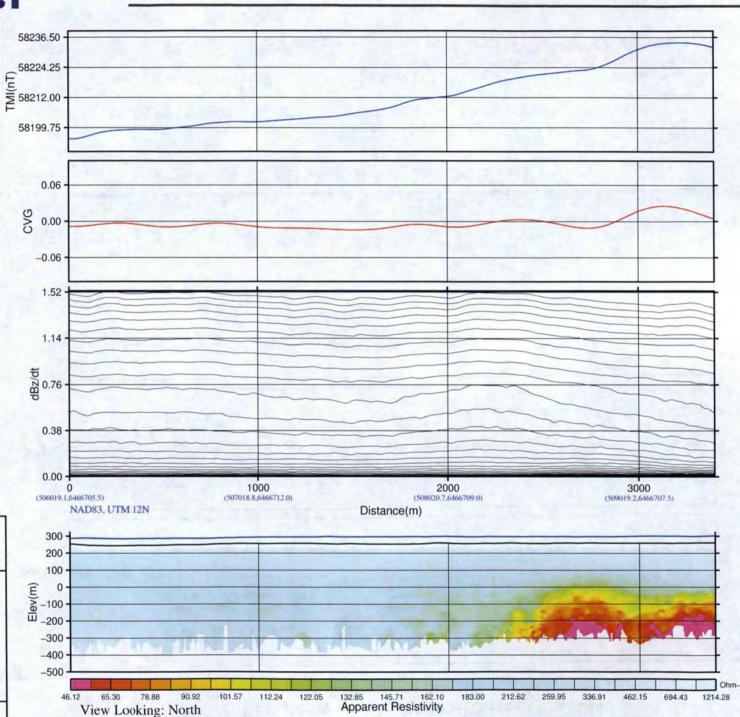
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

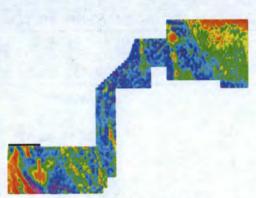
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



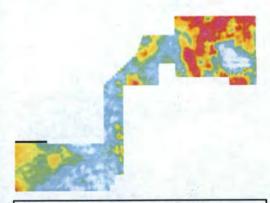


## Resistivity Depth Image (RDI) for Line 1460 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

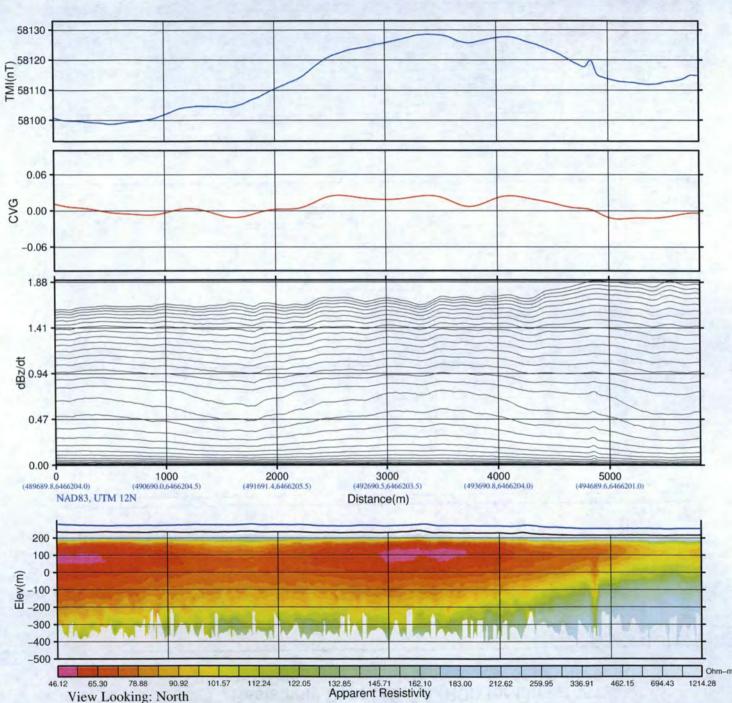


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

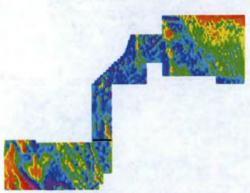
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



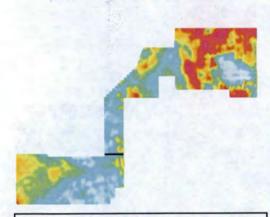


### Resistivity Depth Image (RDI) for Line 1461 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

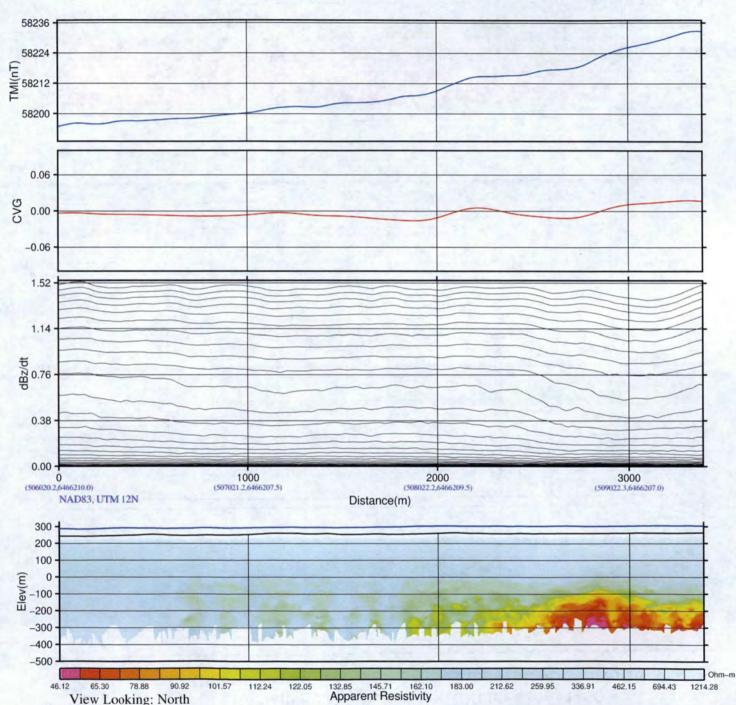


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

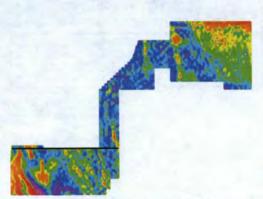
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



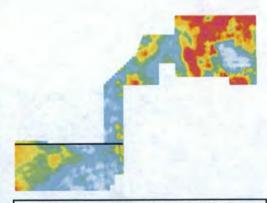


## Resistivity Depth Image (RDI) for Line 1470 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

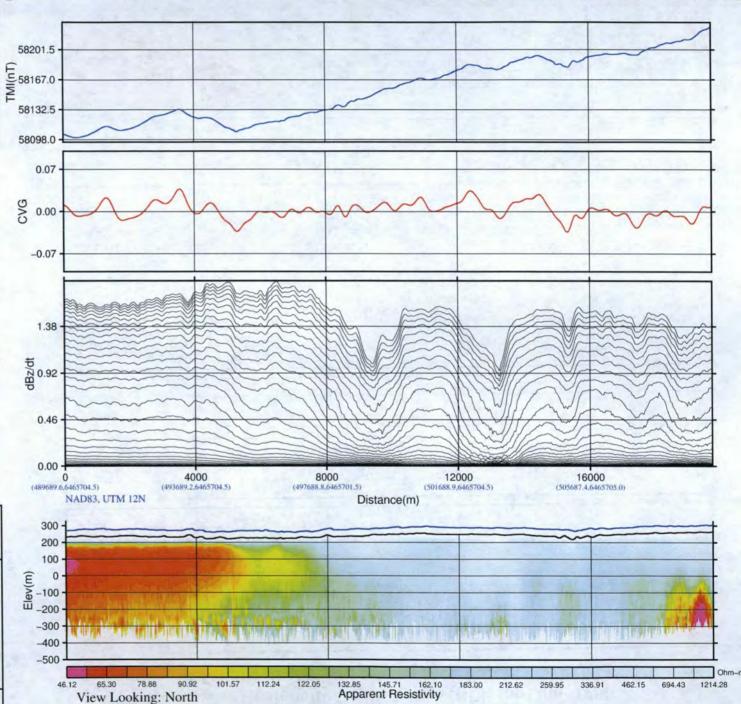


dB/dt Decay Constant (Tau)



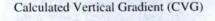
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

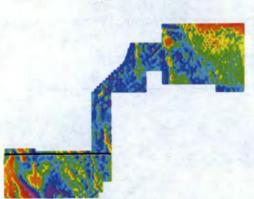
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



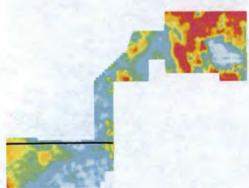


### Resistivity Depth Image (RDI) for Line 1480 Client: Declan Resources Inc. Block: Maybelle North





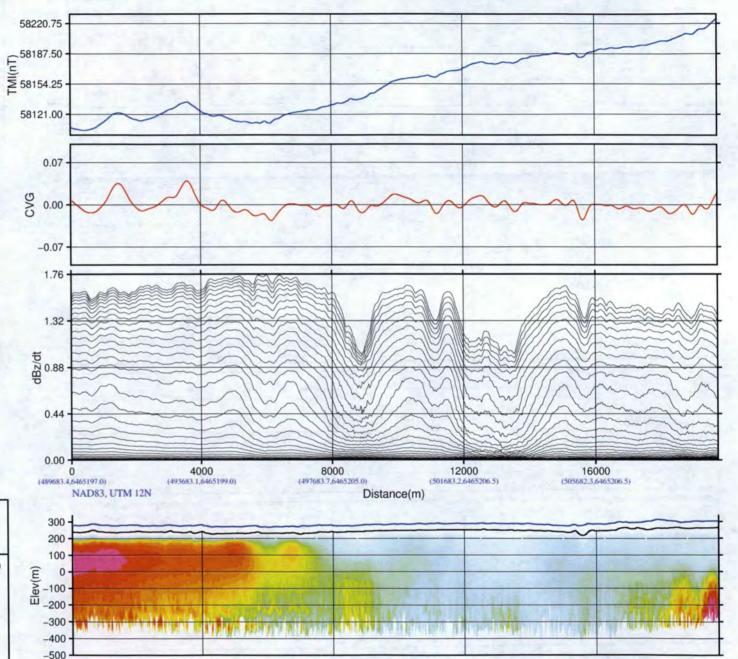
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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2014/5/15

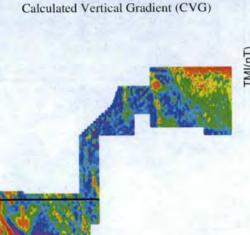


132.85 145.71 162.10 Apparent Resistivity

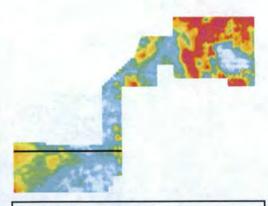
View Looking: North



## Resistivity Depth Image (RDI) for Line 1490 Client: Declan Resources Inc. Block: Maybelle North

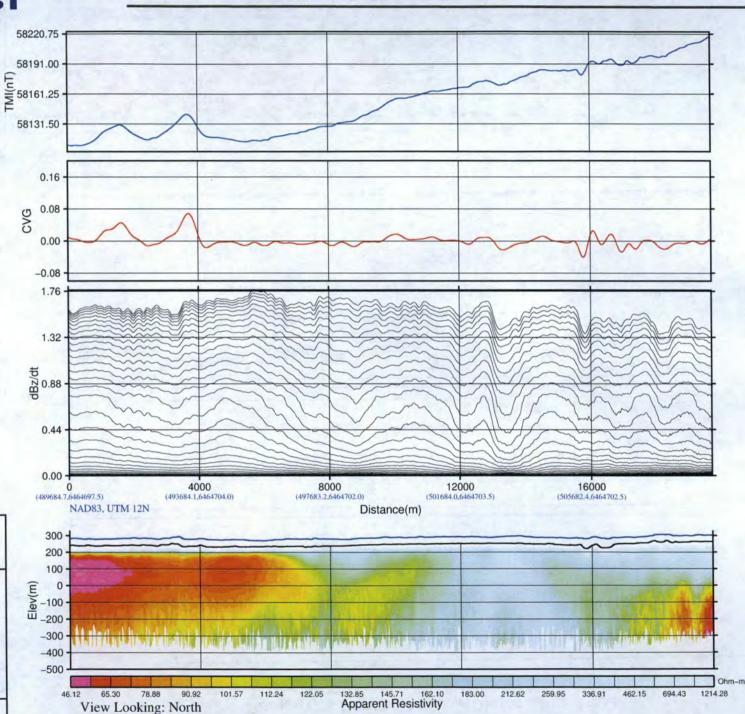


dB/dt Decay Constant (Tau)



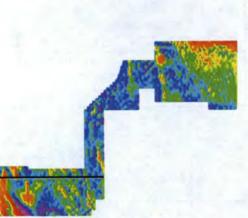
Declan Resources Inc.
Maybelle North
Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus (Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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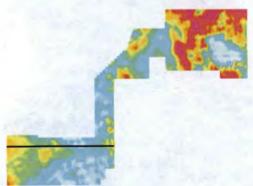


#### Resistivity Depth Image (RDI) for Line 1500 Client: Declan Resources Inc. Block: Maybelle North



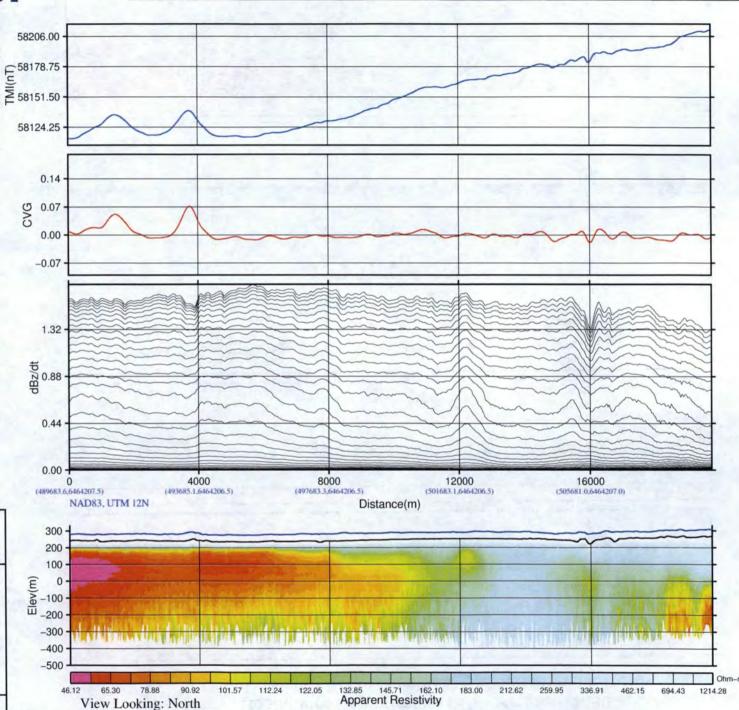
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



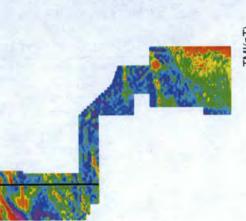
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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## Resistivity Depth Image (RDI) for Line 1510 Client: Declan Resources Inc. Block: Maybelle North



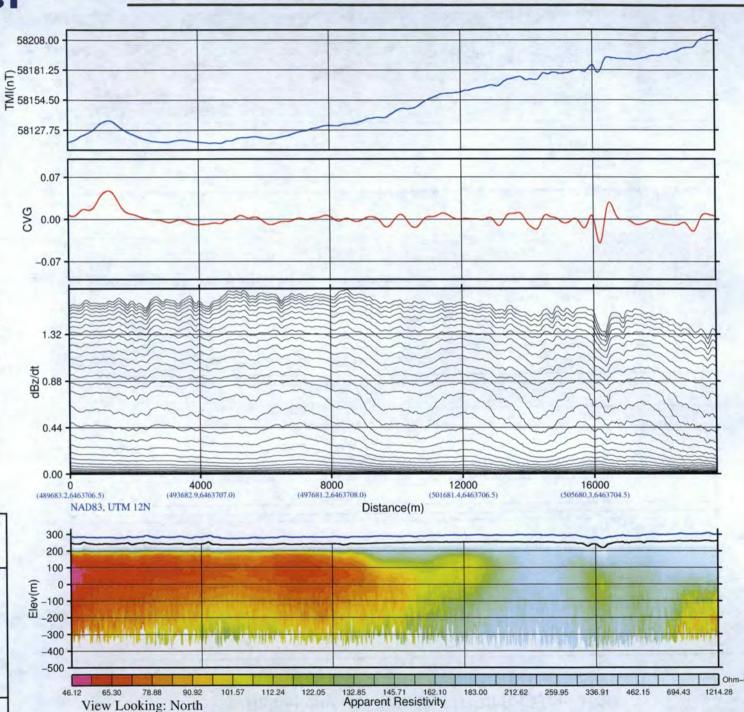
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

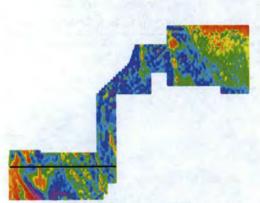
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



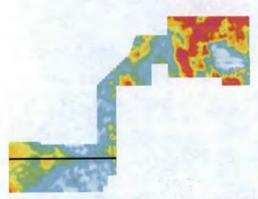


# Resistivity Depth Image (RDI) for Line 1520 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

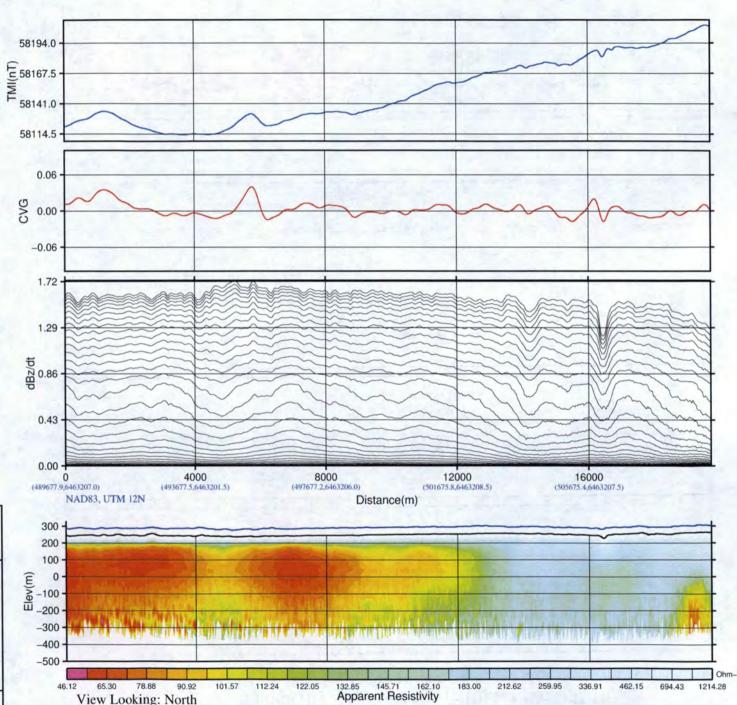


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

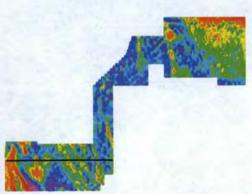
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



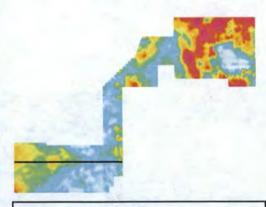


## Resistivity Depth Image (RDI) for Line 1530 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

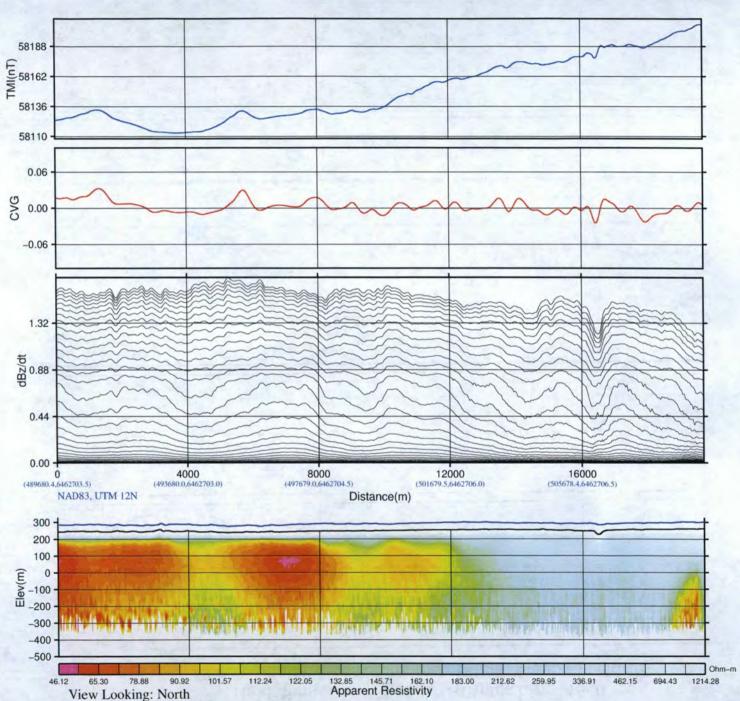


dB/dt Decay Constant (Tau)



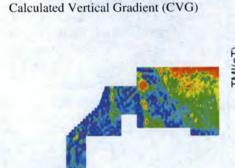
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

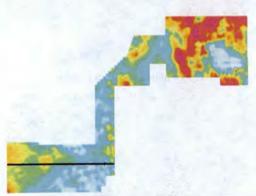




# Resistivity Depth Image (RDI) for Line 1540 Client: Declan Resources Inc. Block: Maybelle North



dB/dt Decay Constant (Tau)

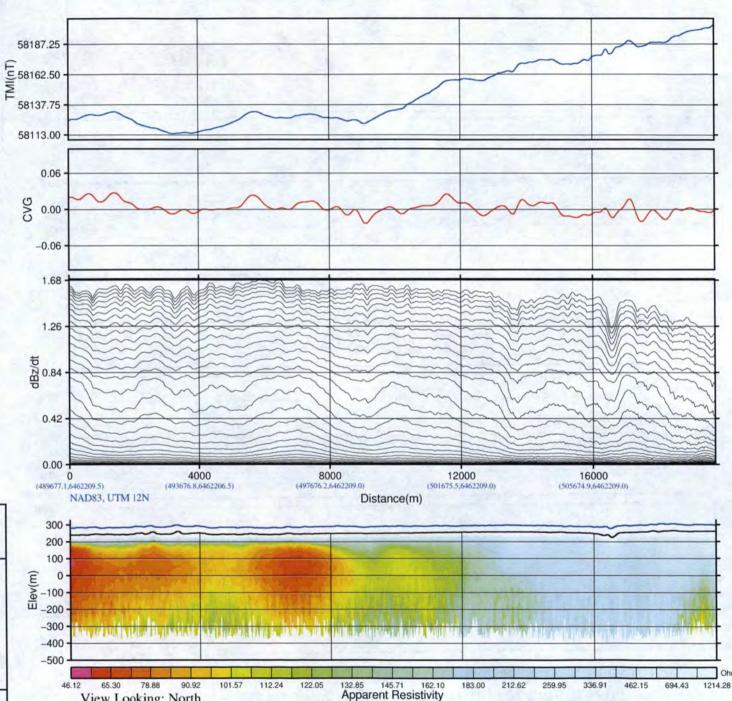


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15

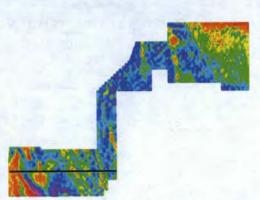
View Looking: North



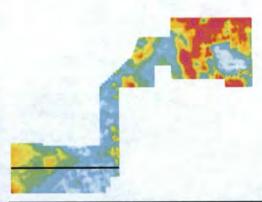


# Resistivity Depth Image (RDI) for Line 1550 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

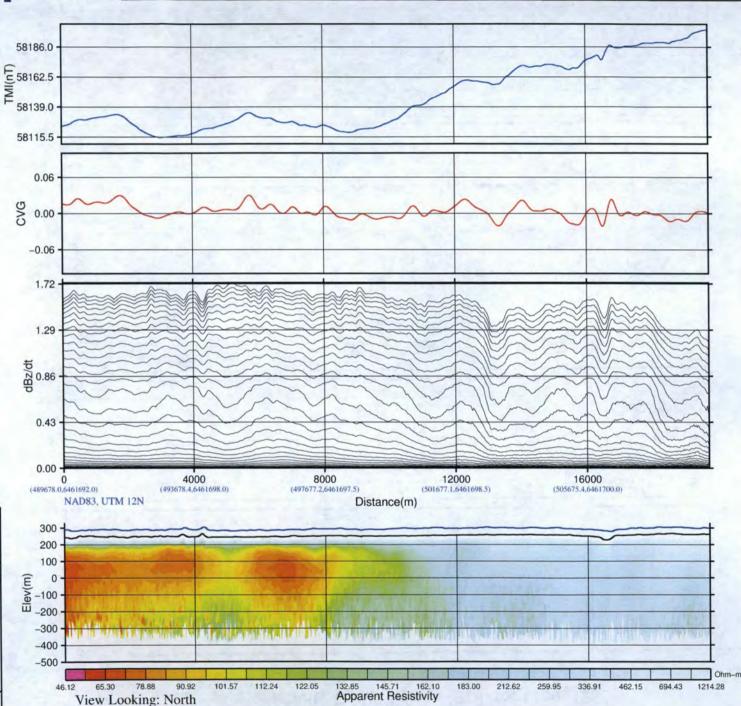


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

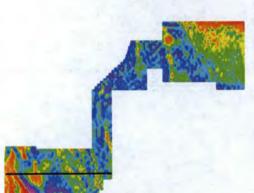
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



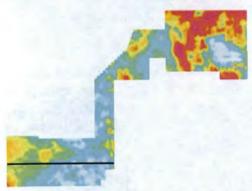


### Resistivity Depth Image (RDI) for Line 1560 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



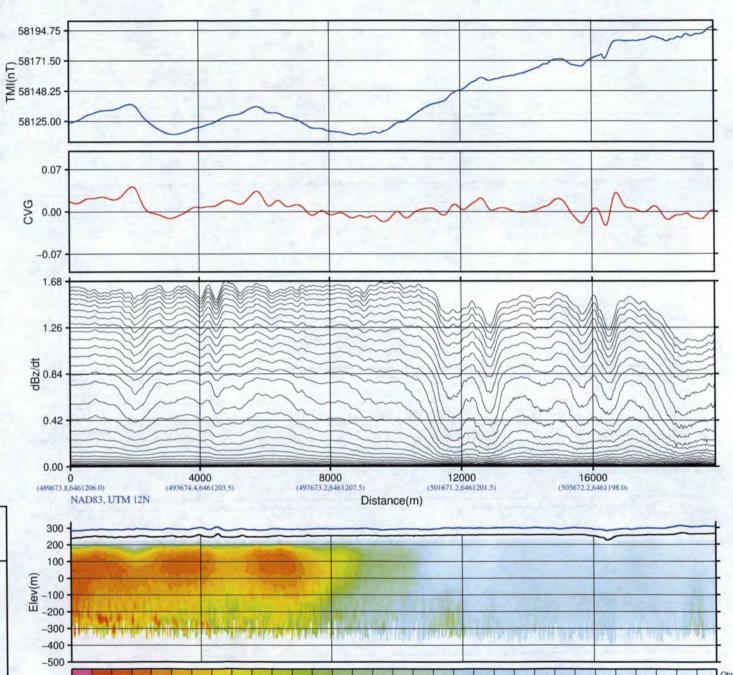
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca

2014/5/15



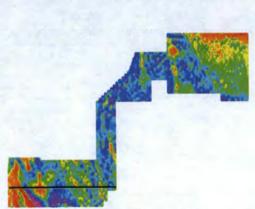
132.85 145.71 162.10 Apparent Resistivity

View Looking: North

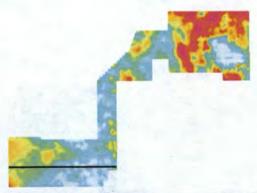


## Resistivity Depth Image (RDI) for Line 1570 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

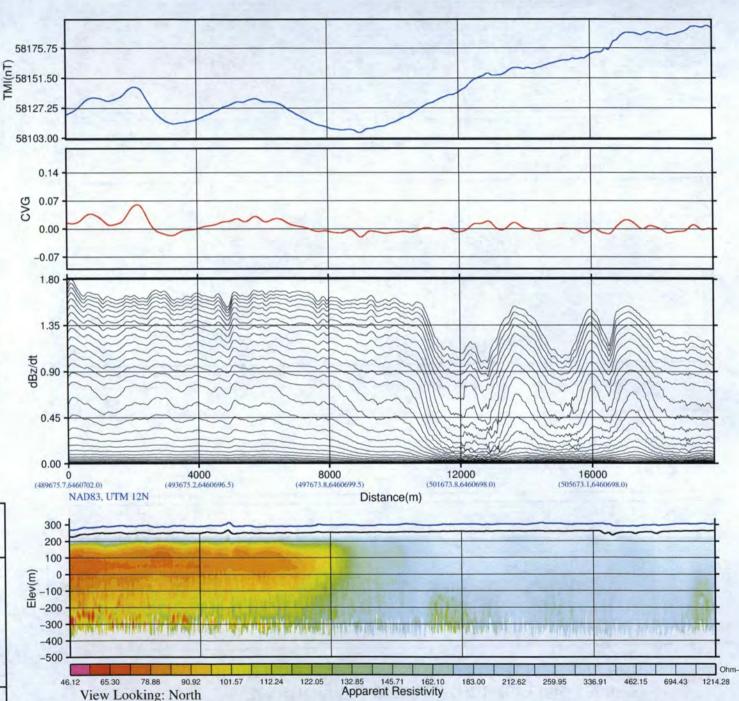


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

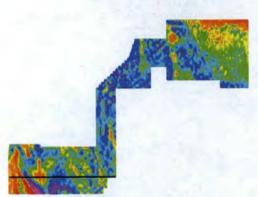
VTEM System: VTEMplus (Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



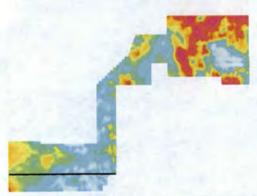


## Resistivity Depth Image (RDI) for Line 1580 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

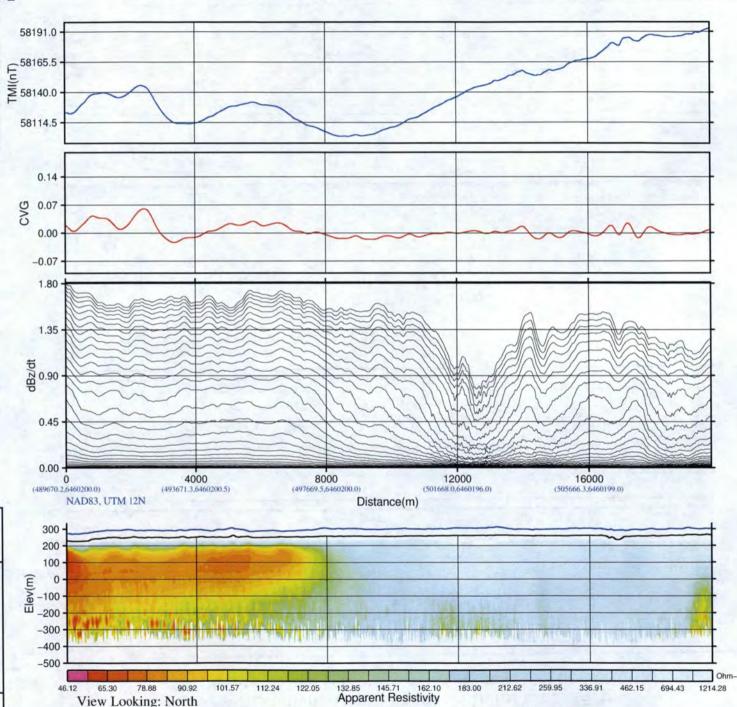


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

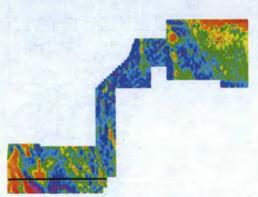
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



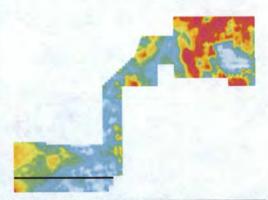


# Resistivity Depth Image (RDI) for Line 1590 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

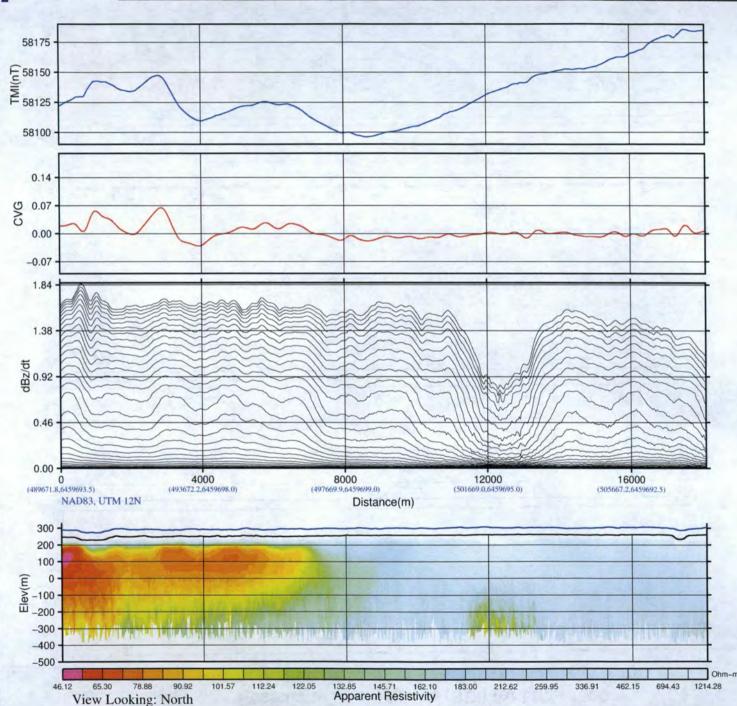


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

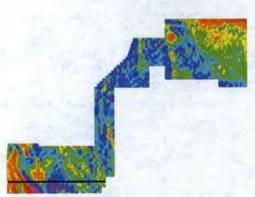
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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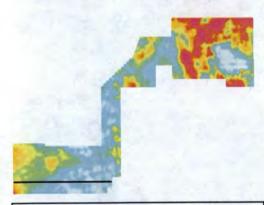


#### Resistivity Depth Image (RDI) for Line 1600 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

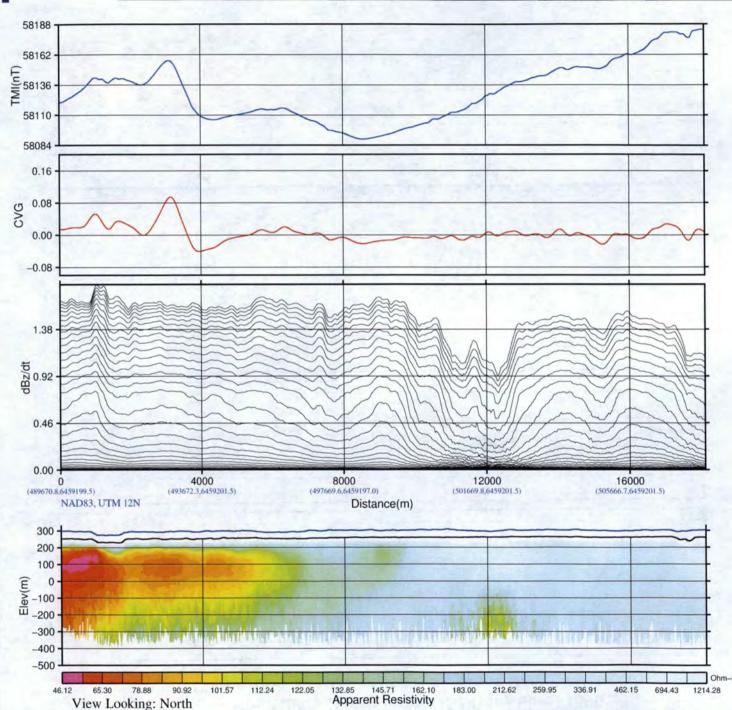


dB/dt Decay Constant (Tau)



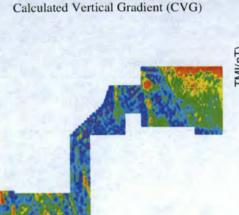
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
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# Resistivity Depth Image (RDI) for Line 1610 Client: Declan Resources Inc. Block: Maybelle North

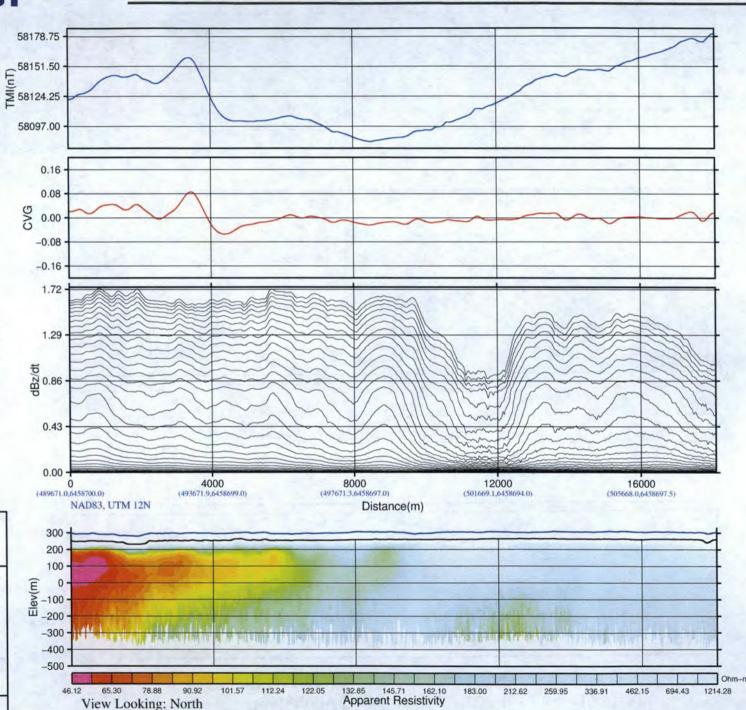


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

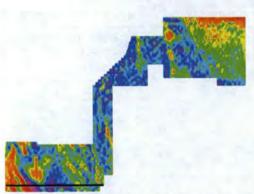
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
www.aeroquest.ca



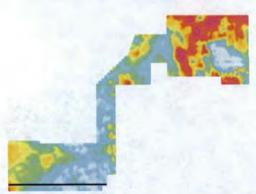


#### Resistivity Depth Image (RDI) for Line 1620 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

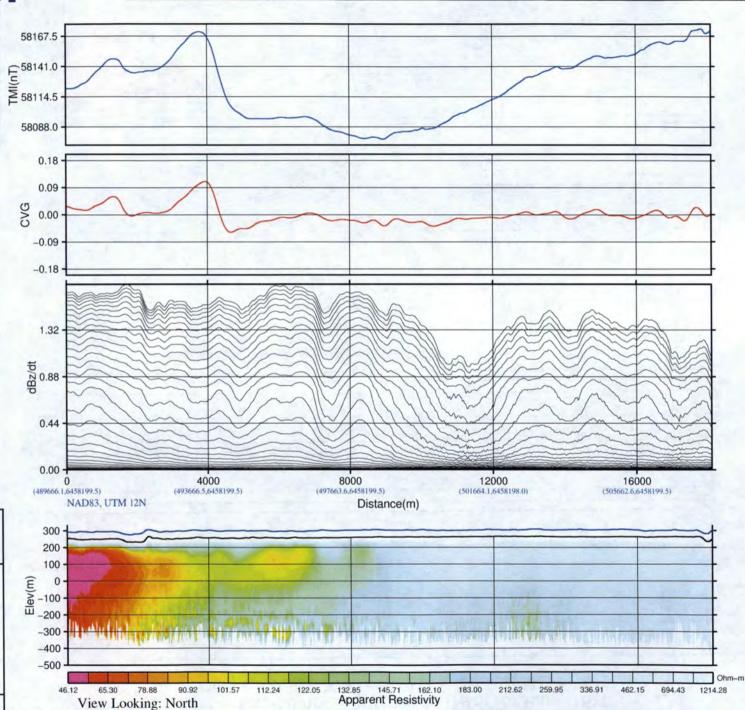


dB/dt Decay Constant (Tau)



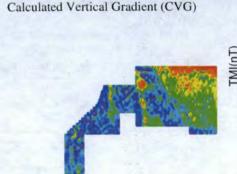
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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# Resistivity Depth Image (RDI) for Line 1630 Client: Declan Resources Inc. Block: Maybelle North

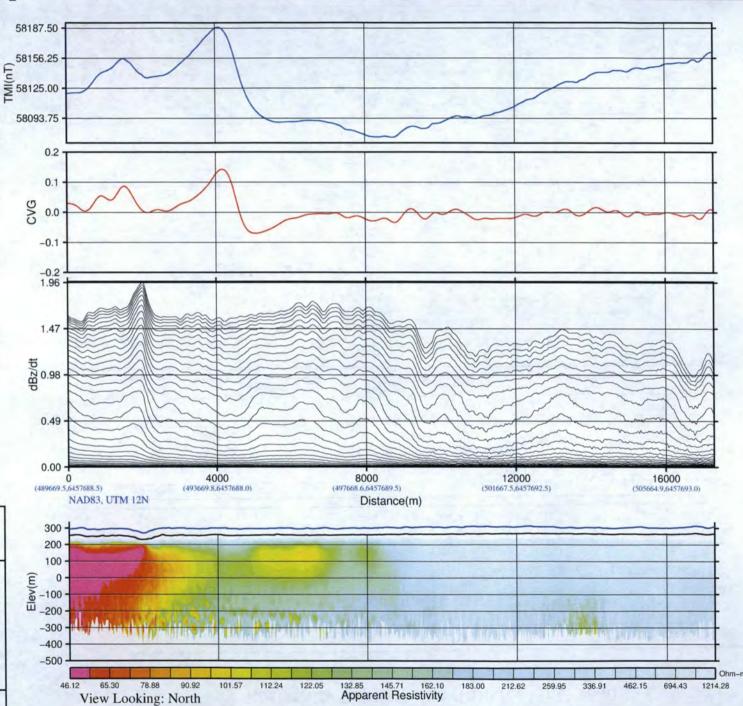


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

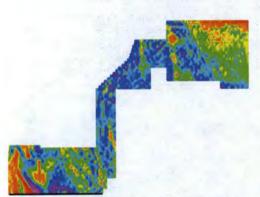
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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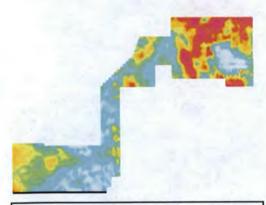


#### Resistivity Depth Image (RDI) for Line 1640 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

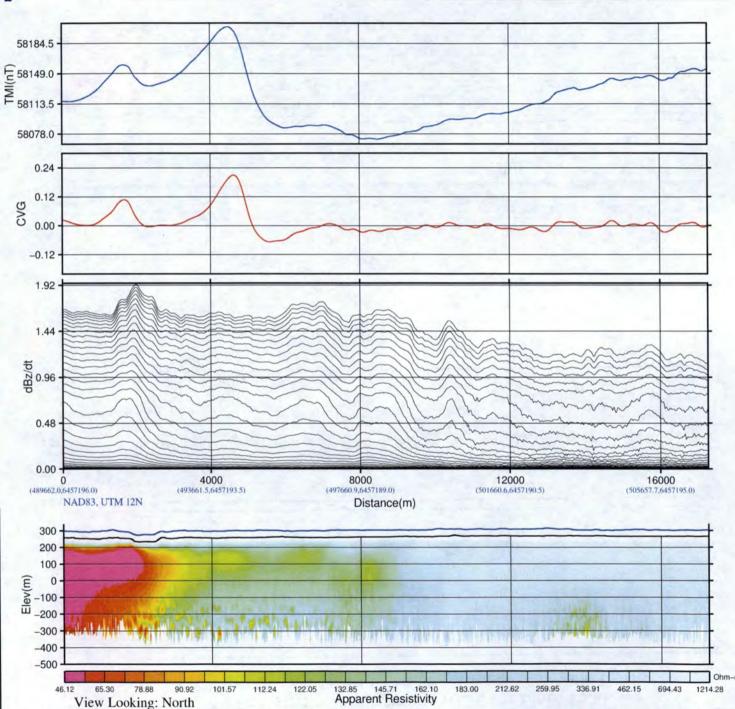


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

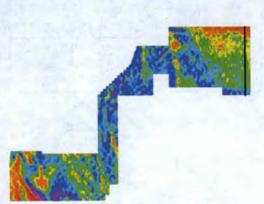
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
Flown by Aeroquest Airborne
Processed by Aeroquest Airborne
245 Industrial Parkway North
Aurora, Ontario, Canada L4G 4C4
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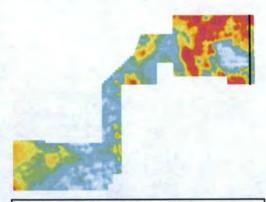


# Resistivity Depth Image (RDI) for Tie 2000 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

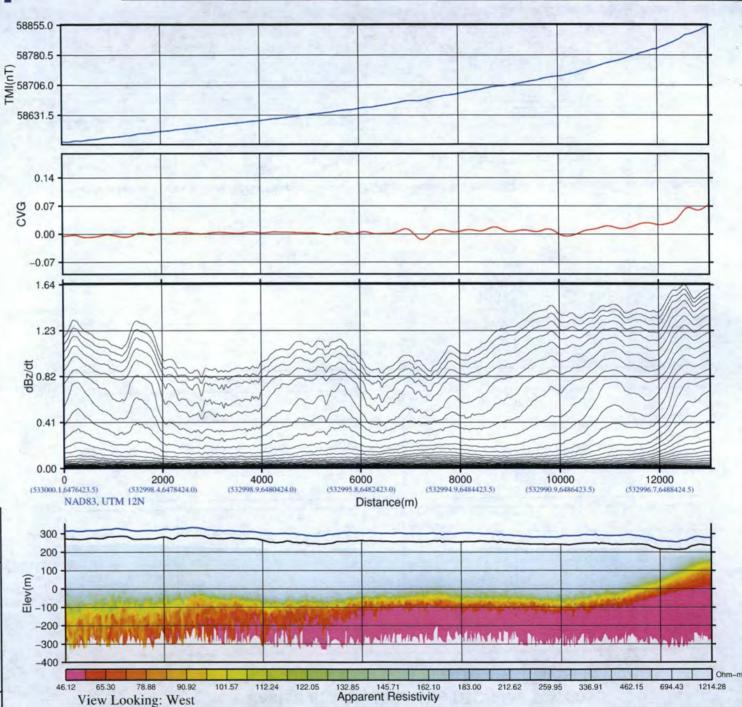


dB/dt Decay Constant (Tau)



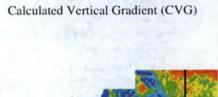
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
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#### Resistivity Depth Image (RDI) for Tie 2010 Client: Declan Resources Inc. Block: Maybelle North



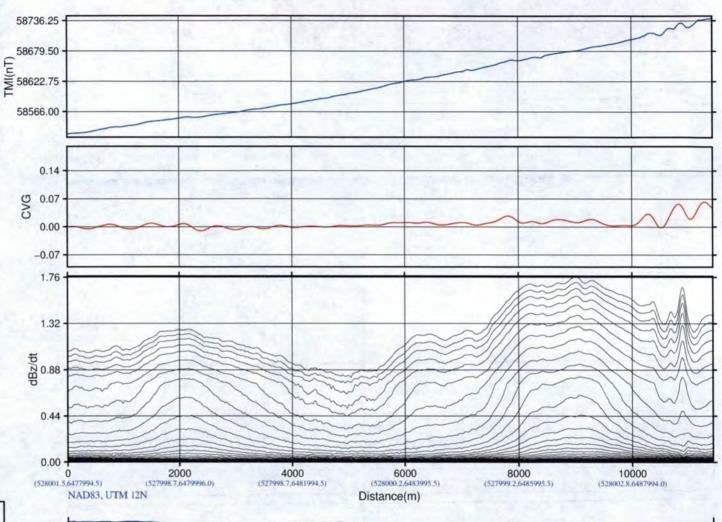


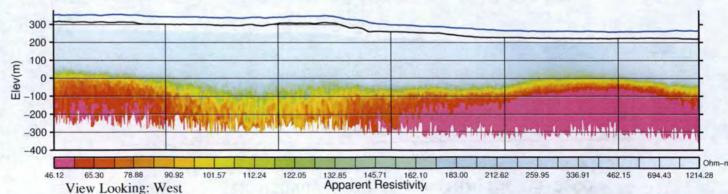
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
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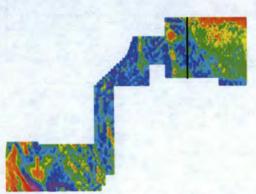




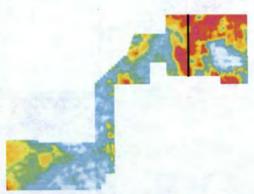


## Resistivity Depth Image (RDI) for Tie 2020 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

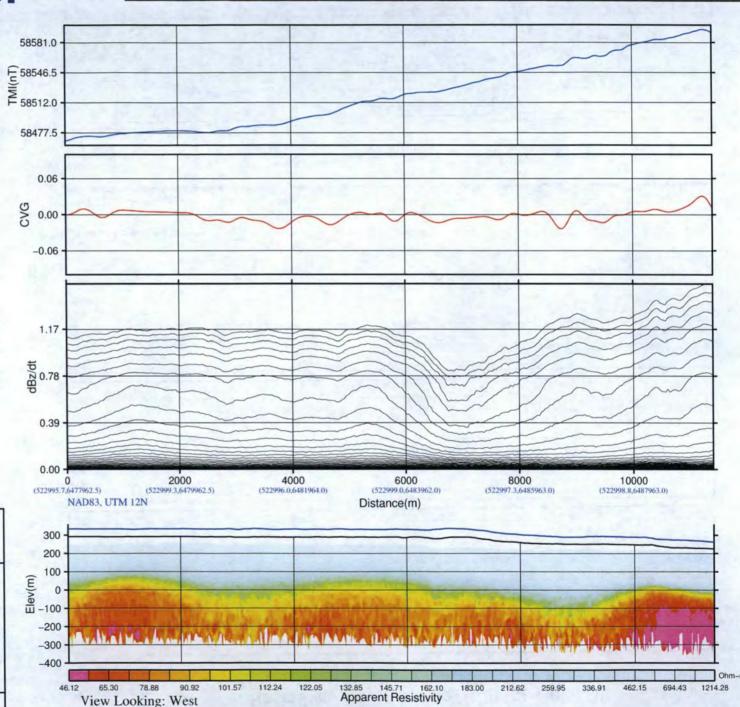


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

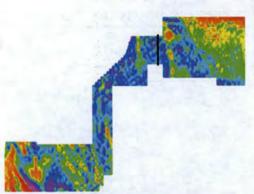
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
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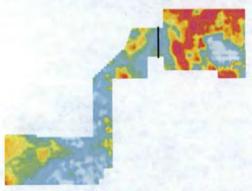


# Resistivity Depth Image (RDI) for Tie 2030 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



dB/dt Decay Constant (Tau)



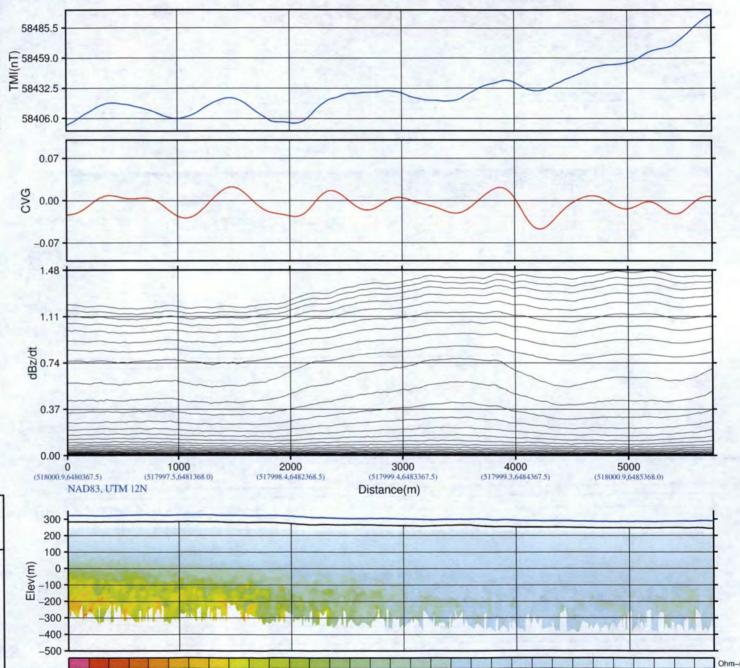
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus (Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
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2014/5/15

78.88

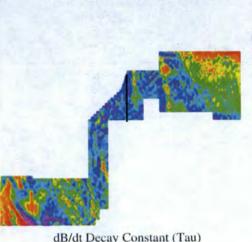
View Looking: West



132.85 145.71 162.10 Apparent Resistivity



# Resistivity Depth Image (RDI) for Tie 2040 Client: Declan Resources Inc. Block: Maybelle North



Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)

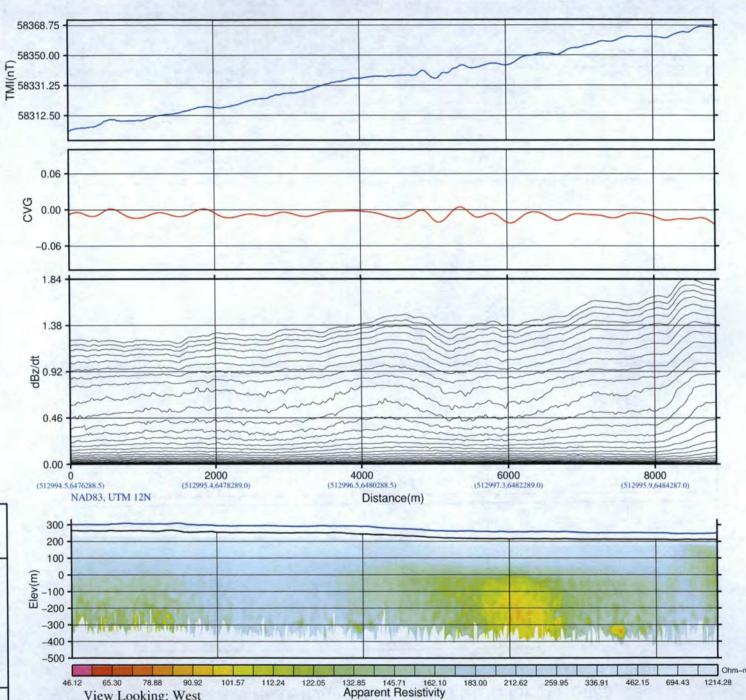


Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

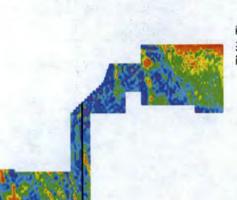
2014/5/15

View Looking: West



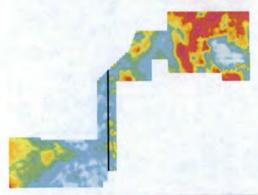


## Resistivity Depth Image (RDI) for Tie 2050 Client: Declan Resources Inc. Block: Maybelle North



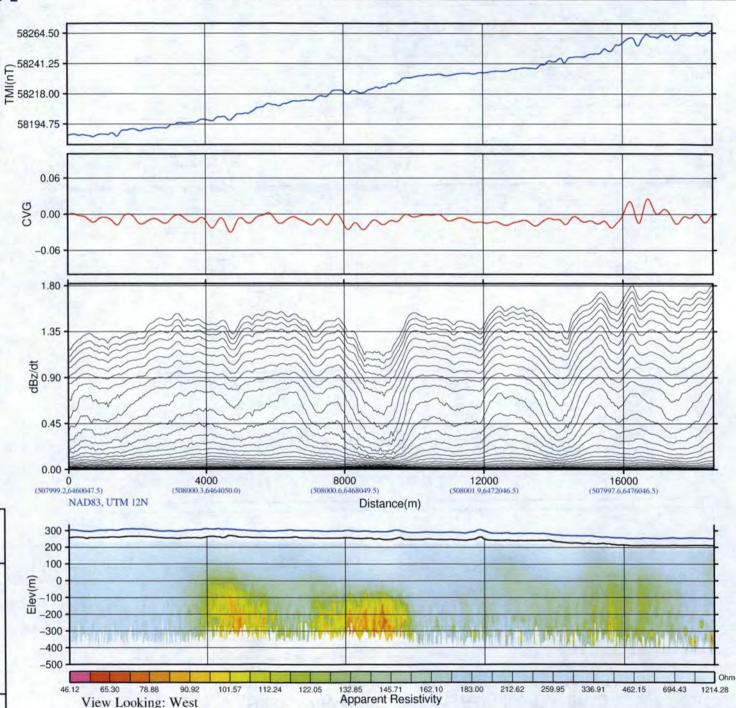
Calculated Vertical Gradient (CVG)

dB/dt Decay Constant (Tau)



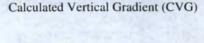
Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

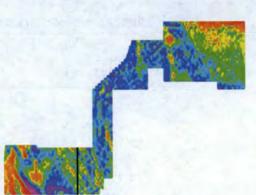
VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
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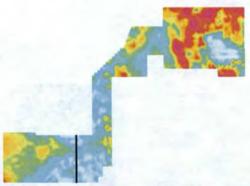


# Resistivity Depth Image (RDI) for Tie 2060 Client: Declan Resources Inc. Block: Maybelle North





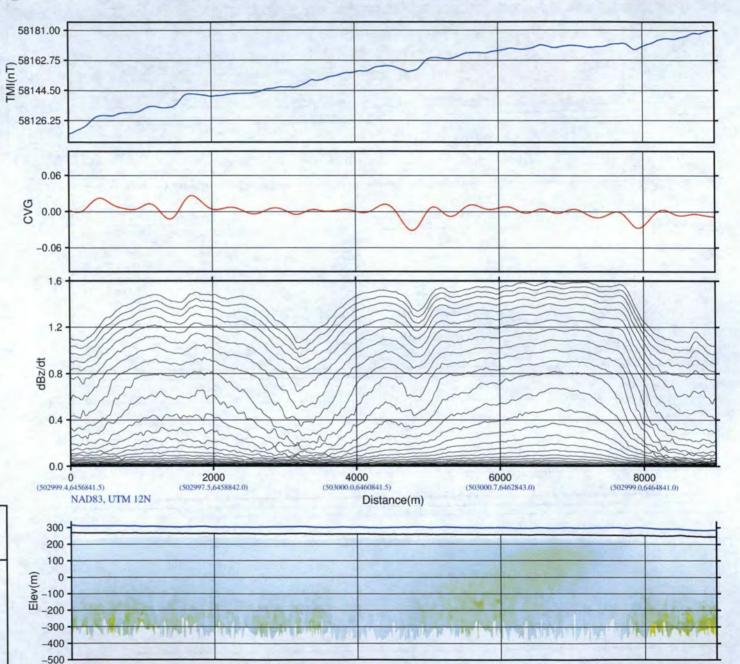
dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System: VTEMplus(Fullwaveform) Job Number: AQ140139 Resistivity Depth Image (RDI) Flown by Aeroquest Airborne Processed by Aeroquest Airborne 245 Industrial Parkway North Aurora, Ontario, Canada L4G 4C4 www.aeroquest.ca

2014/5/15



132.85 145.71 162.10 Apparent Resistivity

183.00

212.62

162.10

462.15

336.91

694.43

1214.28

78.88

View Looking: West

90.92

101.57

112.24

122.05

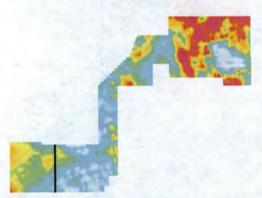


## Resistivity Depth Image (RDI) for Tie 2070 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)

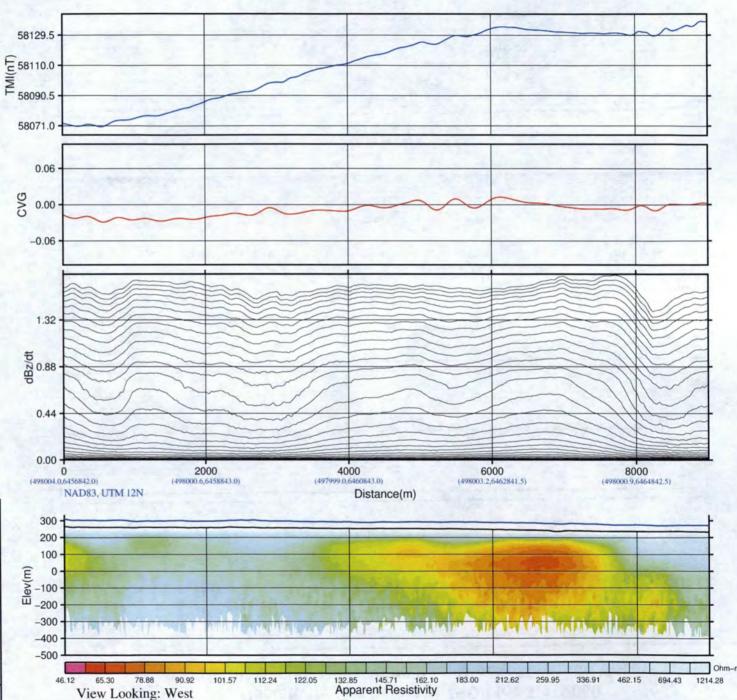


dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

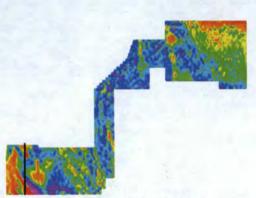
VTEM System: VTEMplus(Fullwaveform)
Job Number: AQ140139
Resistivity Depth Image (RDI)
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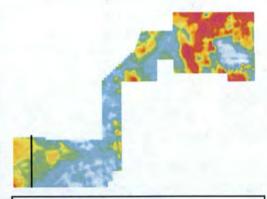


# Resistivity Depth Image (RDI) for Tie 2080 Client: Declan Resources Inc. Block: Maybelle North

Calculated Vertical Gradient (CVG)



dB/dt Decay Constant (Tau)



Declan Resources Inc. Maybelle North Fort Chipewyan, Alberta, Canada.

VTEM System:VTEMplus(Fullwaveform)
Job Number:AQ140139
Resistivity Depth Image (RDI)
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Processed by Aeroquest Airborne
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