



OUTER-RIM EXPLORATION SERVICES

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Geophysical Contracting Services

100% Australian Owned

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Volume 1 of 1

Client : AusQuest Limited

Prospect : Foxes and Monkey Gnomes

Area : Jervois Range, NT

Survey : Borehole PEM Survey

Survey Period : 8th to 10th November, 2009

Operator : Rob Kuschert

DAILY LOG: AusQuest Limited - November, 2009

DATE	COMMENTS	CHARGES
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06-11-09	Operator: Rob Kuschert Field Assistant: Ray Rush	
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07-11-09	We left Boulia at 6.00am, drove to Jervoice Station, refuelled and headed to the AusQuest White Gum camp. We set up our tent and then drove to 09WGD-001, dummied it and found it was blocked at 331m. We returned to camp at 6.00pm.	1¼ Mob. day \$1687.50
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08-11-09	We left camp at 6.00am, dummied 09WGD-003, laid out the loop and read the Z and X-Y components to 430m. We then packed up and returned to camp at 7:30pm.	
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SURVEY PARAMETERS:**Loop WGUM1** :300 x 300 m (x1)614325E, 7376625N; 614625E, 7376625N;
614625E, 7376925N; 614325E, 7376925N.Current :20 Amps
Resistance :6.4 Ohms
Time Base :150 ms
Ramp Time :1.0 ms
Sync :Clock**Hole No.** :09WGD-003

614514E, 7376807N.

Depth :430m
Channels :42
Components :Z,X,Y1¼ Survey day \$2937.50
1¼ Field Assist. day \$ 375.00

09-11-09	We left camp at 6.00am, drove out to 09WGD-002, dummied it and read the Z and X-Y components. We then packed up and moved the transmitter site, dummied 09WGD-004 to 475m and returned to camp at 5:30pm.	
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SURVEY PARAMETERS:**Loop WGUM1** :300 x 300 m (x1)614325E, 7376625N; 614625E, 7376625N;
614625E, 7376925N; 614325E, 7376925N.Current :20 Amps
Resistance :6.4 Ohms
Time Base :150 ms
Ramp Time :1.0 ms
Sync :Clock

Hole No. :09WGD-002
6143524E, 7376859N.
Depth :365m
Channels :42
Components :Z,X,Y

1 Survey day \$2350.00
1 Field Assist. day \$ 300.00

10-11-09 We left camp at 6.00am, drove to 09WGD-004, laid out the loop and read all three components. We recovered the loop, packed up and returned to camp at 5.00pm.

SURVEY PARAMETERS:

Loop WGUM2 :300 x 300m (x1)
609800E, 7379800N; 610100E, 7379800N;
610100E, 7380100N; 609800E, 7380100N.
Current :20 Amps
Resistance :5.9 Ohms
Time Base :150
Ramp Time :1.0 ms
Sync :Clock

Hole No. :09WGD-004
609963E, 7379948N.
Depth :475m
Channels :42
Components :Z,X,Y

1 Survey day \$2350.00
1 Field Assist. day \$ 300.00

11-11-09 We left camp at 6.00am, drove to Jervoice Station, refuelled and drove to Mt Isa.

1 Mob. day \$1350.00

Appendix



CRONE GEOPHYSICS & EXPLORATION LTD.

3607 WOLFEDALE ROAD, MISSISSAUGA, ONTARIO, CANADA, L5C 1V8
Phone: (905) 270-0096 Fax: (905) 270-3472 www.cronegeophysics.com

3-D PULSE EM - SYSTEM DESCRIPTION

Name of System: Crone Pulse EM (PEM).

Method Employed: TDEM (Time-domain electromagnetics) or TEM (Transient EM).

Survey Types:

- **Surface** - DEEPEM, Large In-Loop, Moving Loop, Moving Coil - 3 components.
- **Borehole** - 3D Borehole PEM - 3 components are measured and oriented.
- **Underground** - 3D Borehole PEM - including flat or up-dipping holes.

Measured Quantity: Rate of change of magnetic field in nanoTesla/second (same as nV/m²).

Receiver: Fully digital (input is digitized before stacking) with 24 bit dynamic range.

Channels (Gates):

- Typically 20 logarithmic channels in off-time and 1 during ramp (PP).
- Operator can select from several built-in tables including:
 - 10, 20, or 30 channel system (single, double, triple density)
 - 45 channels 4.5 usec wide covering the end of ramp and start of off-time.
 - 42 channels and PP for 150 msec time base.
 - full sampling of ramp and off-time (8 on ramp and full off-time starting at 0 usec).
- Programmable channel positions in the field.

Stacking: 512 to 65536 stacks with spike rejection.

Gain Control: Automatic software control (no selection or correction required).

Rx Operation: Menu-driven software. Large 16x40 character LCD. Full alphanumeric keyboard.

Display: 256 x 128 pixel scrollable graphic LCD for decay curves and profiles in the field.

Data Handling: Solid state storage; multiple files; all files can be appended at any time. Plot, list, sort, delete data. RS232 transmission of all data or only certain files.

Synchronization: Radio, cable, or crystal clock

Current Waveform: Bipolar on-off square waveform with exponential turn-on and ramp off.

Time Base: Off-time plus ramp time.

- 8.33, 16.66, 50, 100 and 150 msec for 60 Hz noise rejection (equivalent base frequencies of 30, 15, 5, 2.5, 1.67 Hz.)
- 10.0, 20.0, 50.0, 100.0 and 150 msec for 50 Hz noise rejection (equivalent base frequencies of 25, 12.5, 5, 2.5, 1.67 Hz.)

Ramp Time: The time required for the current to turn off.

- 500, 1000, or 1500 usec selections for precisely controlled linear turn-off ramps.
- "fast ramp" option turns current off as quickly as possible for a given loop size and current (2 usec or less to a few hundred usec).

Transmit Loop:

- Single turn loop of any dimension (less than 100m x 100m to greater than 2km x 2km).
- Multi-turn 14m diameter loop for near-surface Moving Coil surveys.

Tx Output Current:

- 30 Amps maximum at 160 Volts for 4.8 kWatt system.
- 20 Amps maximum at 120 Volts for 2.4 kWatt system.

Tx Output Voltage:

- 48 to 240 Volts continuously adjustable for 4.8 kWatt system.
- 24 to 120 Volts continuously adjustable for 2.4 kWatt system.

Tx Safety features: Transmitter automatically shuts off when loop is opened. Also shuts off with high instrument temperature and overload. Fuse and circuit breaker overload protection.

Borehole Probes: 32 mm diameter.
Pressure-tested for depths of 2500m or more.

Operating Temperature: -40°C to 50°C



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3-D PULSE EM - SPECIAL FEATURES

High Power: A new 4.8 kWatt transmitter allows very large loops to be used while maintaining a high current.

Precise Current Ramps: Precisely- controlled linear ramps of fixed duration allow for proper comparisons to be made between data from different loop sizes, and also allows for the step response transformation.

Long Time Base (Low Frequency): A new long time base of 150 msec (1.67 Hz) ensures that very long time constant conductors can be seen in complicated environments.

Step Response: A new step response transformation allows even longer time-constant conductors to be seen by reproducing the response that would be seen in a direct measurement of the step response. Our controlled linear ramps and our standard Primary Pulse (PP) measurement on the ramp are necessary for this calculation.

Fast Ramp Option: A new "fast ramp" option duplicates the response seen from other pulse-type systems, but this does not allow for the step response calculation. We do not recommend fast ramps because they are not as linear as our controlled ramps, they drift in duration as the loop warms up, and there is no advantage in terms of power put into the ground since the area under the dB/dt pulse produced by the ramp is the same.

Calculation of Impulse Response: The "fast ramp" response can be calculated (as well as the true impulse response) from our standard linear ramp data.

True Digital Receiver: The Crone receiver is a true digital receiver in that the input is immediately digitized before stacking and binning. This produces the following feature (programmable gate positions) .

Programmable Gate Positions: There is complete freedom of channel (or gate) positions and widths, which can be programmed in the field. There are also numerous built-in tables.

Full Sampling: The entire ramp and off-time can be sampled with contiguous channels if desired.

Current Ramp always Sampled: A Primary Pulse (PP) measurement is always made on the current ramp, which is of great help to ensure proper polarities, and also is crucial for the step response transformation.

High Quality LCD Display: The 256 x 128 pixel LCD on the receiver allows for accurate plots of decay curves and line or borehole profiles on the receiver, and is of great assistance to the operator to monitor noise and anomaly build-up.

No Data Reduction: There is no data reduction for surface surveys and Z-component borehole surveys, so that what is seen on the receiver is what will be seen in the final plots. For 3-D borehole surveys, there is only the correction applied to the direction of the X and Y components to aid interpretation. Gain controls are automatic, so that the output is always in nanoTeslas/sec (= nV/m²).

Slim-line Probes: A 32 mm probe diameter ensures that virtually all holes can be surveyed with 3-component measurements.

Oriented X and Y Components: X-Y orientation tools accurately orient the X and Y components. This helps tremendously with giving direction to off-hole conductors and to the centre of in-hole conductors.

Reliable, Durable and Portable Equipment: The PEM system has been in use since the early 1970's under temperature extremes of -40°C to +50°C, in desert, jungle, arctic, mountainous, and underground mining conditions.



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3-D PULSE EM - APPLICATIONS

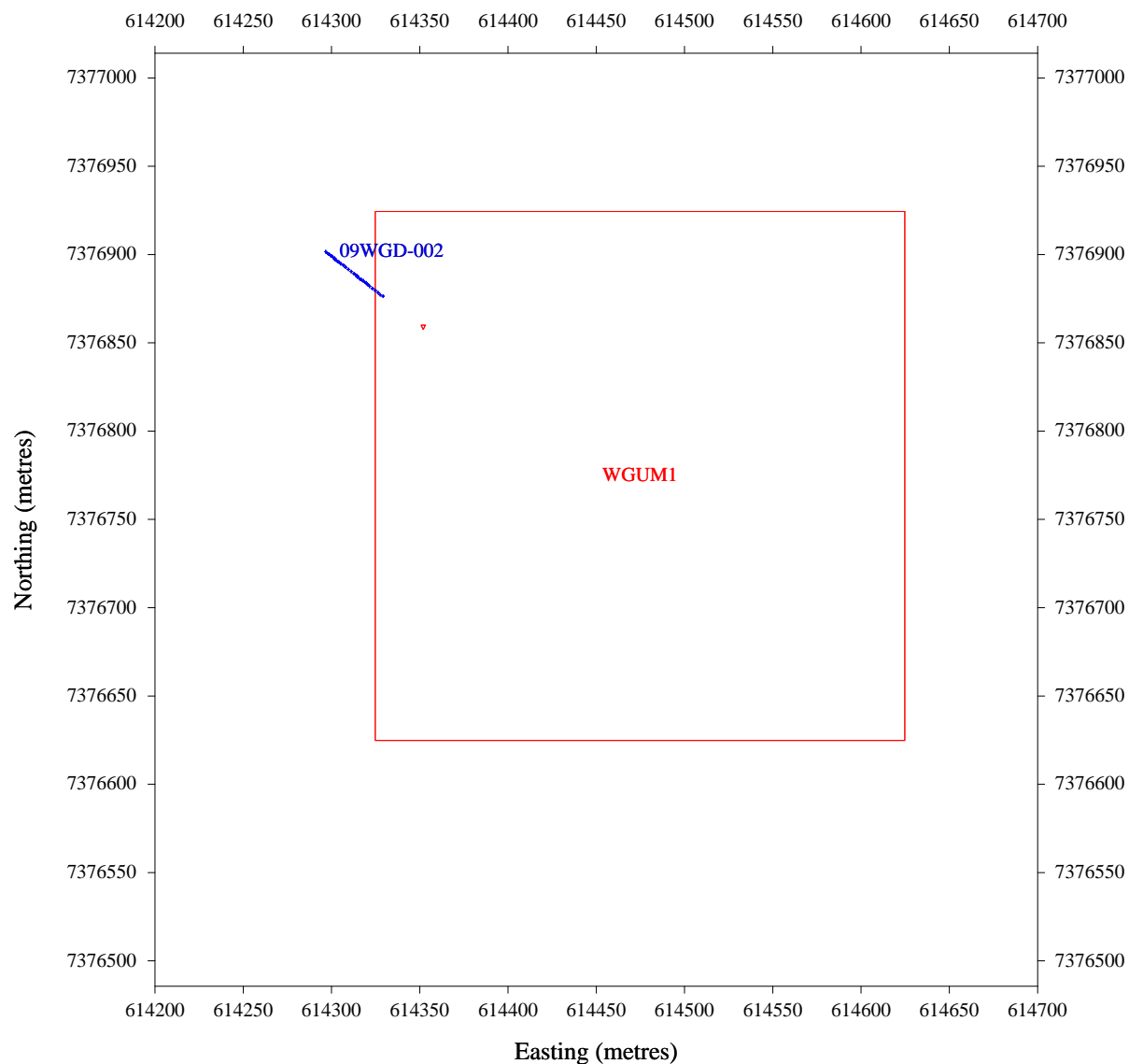
- **Base metals** ⇒ direct detection of:
 - ◊ volcanogenic massive sulphide (VMS) deposits
 - ◊ magmatic sulphide deposits
 - ◊ sedex massive sulphide deposits
 - ◊ higher grade ore within disseminated zones⇒ indirect detection of :
 - ◊ sphalerite and other non-conductors
 - ◊ galena and other poorly connected mineralsthrough detection of associated well-connected conductors.
⇒ detection of conductive marker zones related to deposits
- **Gold** ⇒ detection of associated conductors - e.g. pyrite/pyrrhotite
⇒ detection of the host - e.g. banded iron formations
- **Uranium** ⇒ detection of associated graphitic basement conductors
⇒ detection of associated conductive alteration zones
- **Diamonds** ⇒ detection and definition of clay-rich layer overlying kimberlites
⇒ locating kimberlites under locally thinned conductive cover

In the ore definition, delineation and production stages of a mining operation, Pulse EM can still be highly effective to:

- Define the boundaries of conductive ore
- Determine the size of intersected conductors and thereby determine whether they are connected to main ore zones.
- Reduce the number of necessary drillholes by exploring between holes.
- Survey underground drillholes - even flat or inclined holes.

Pulse EM can also be used for:

- General geological mapping of conductive structures
 - ⇒ shears, fractures, lineaments
 - ⇒ hydrothermal alteration
 - ⇒ graphite-rich rocks, including graphitic schist, shale, slate, and argillite
 - ⇒ clay alteration and zeolites
 - ⇒ differential and clay weathering
 - ⇒ conductive weathered layer at surface
- Groundwater exploration
- Mapping groundwater contamination plumes and freshwater-saltwater interface
- Geothermal exploration
- Mapping depth and thickness of horizontal strata
- Mapping permafrost thickness



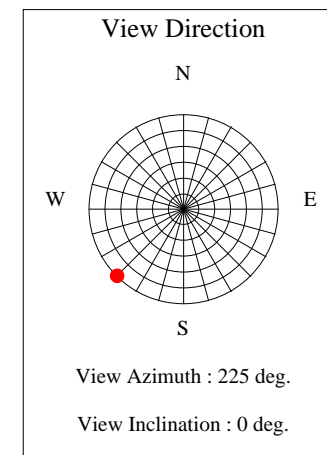
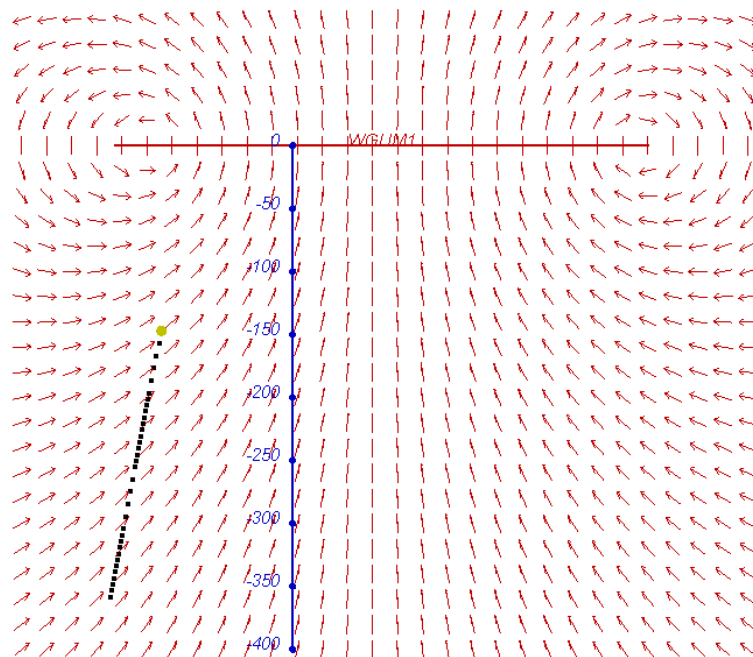
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Foxes

Downhole EM Survey
SURVEY LOCATION PLAN
Hole 09WGD-002

Drawn : DJL
Date: 16-11-2009

Job No.: JN2112
Fig No.:#1



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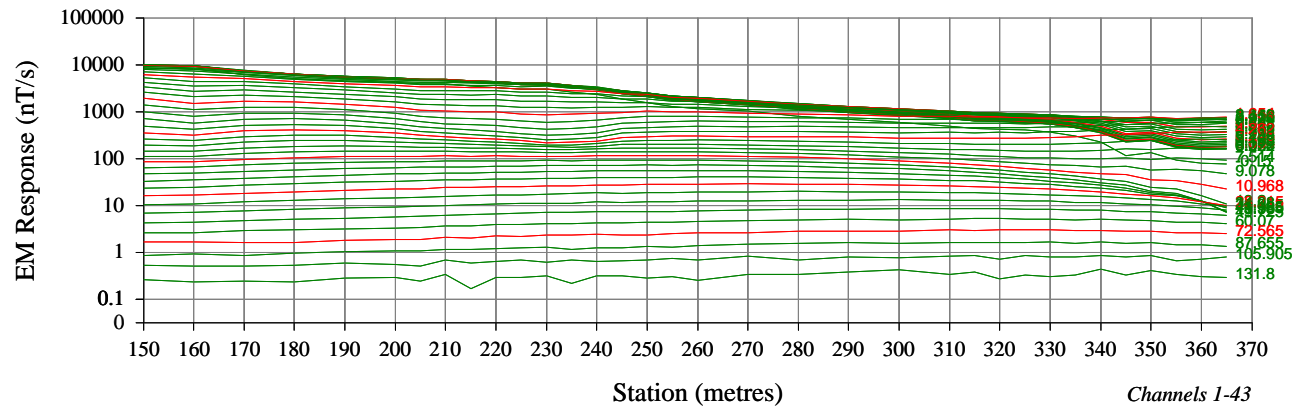
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Downhole EM Survey
Primary Field Plot
Hole 09WGD-002

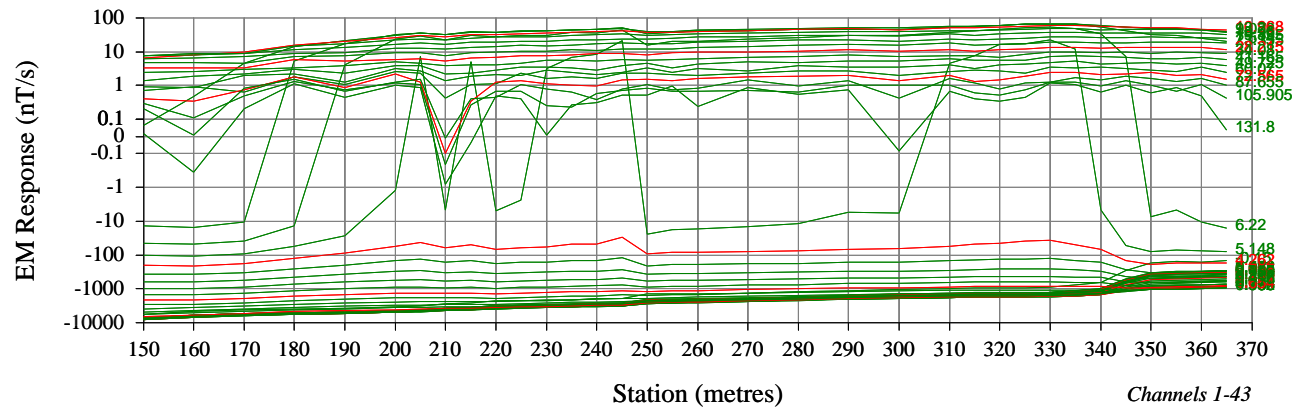
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Job No.: JN2112
Fig No.:#2

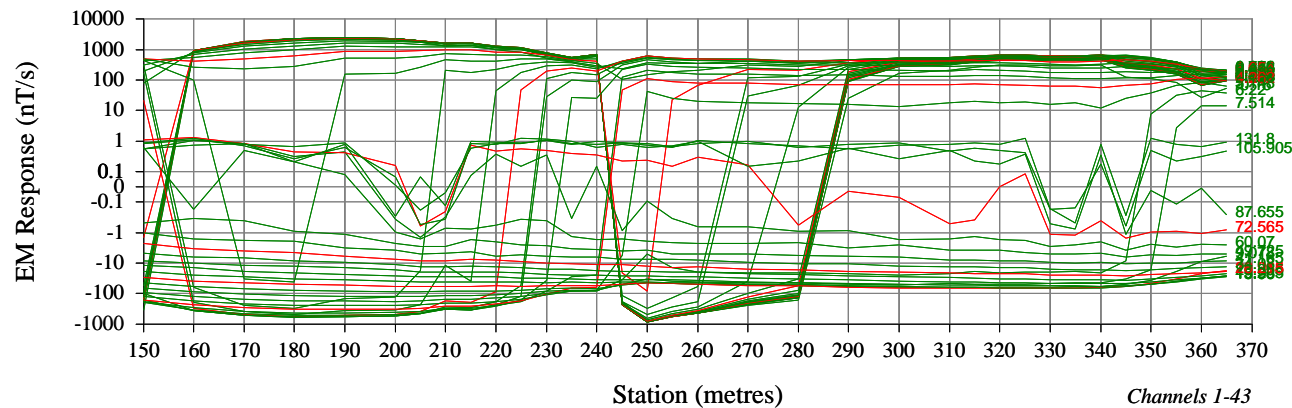
A Component



U Component



V Component



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : A
Rx Coil : Crone
Rx Area : 8000m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM1
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.21
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.73
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



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Downhole EM Survey
Log/Linear Profiles
Hole 09WGD-002

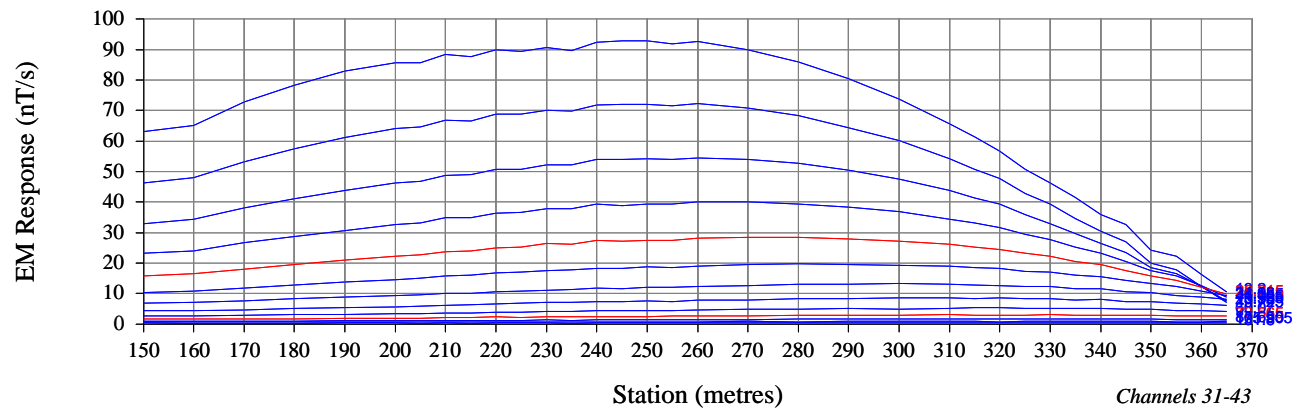
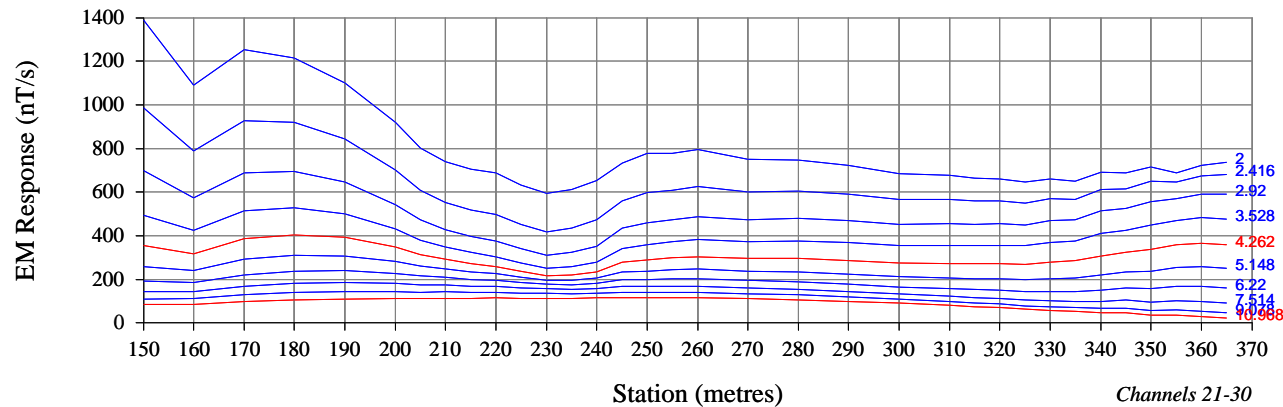
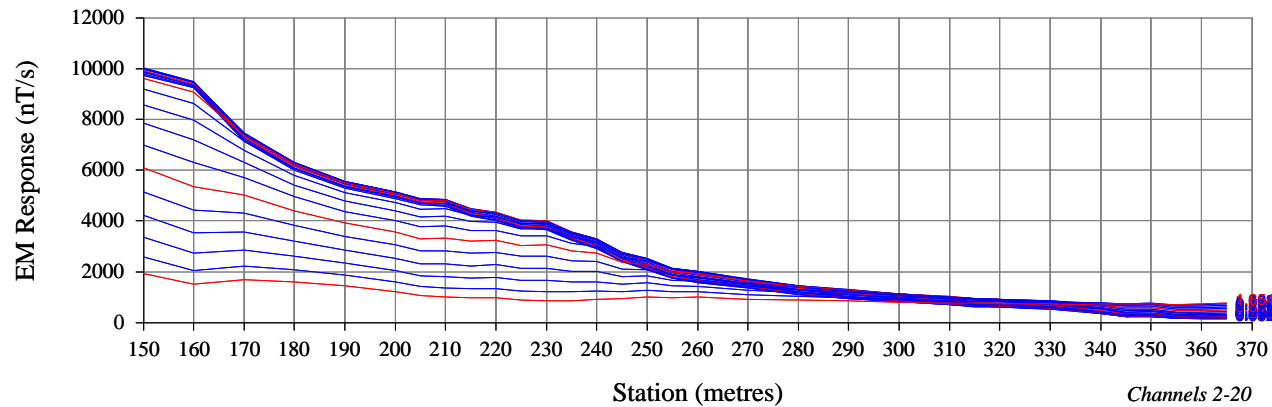
Drawn : DJL

Job No.: JN2112

Date: 16-11-2009

Fig No.:#3

A Component



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : A
Rx Coil : Crone
Rx Area : 8000m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM1
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.21
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.73
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



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Downhole EM Survey
Linear Profiles - A Component
Hole 09WGD-002

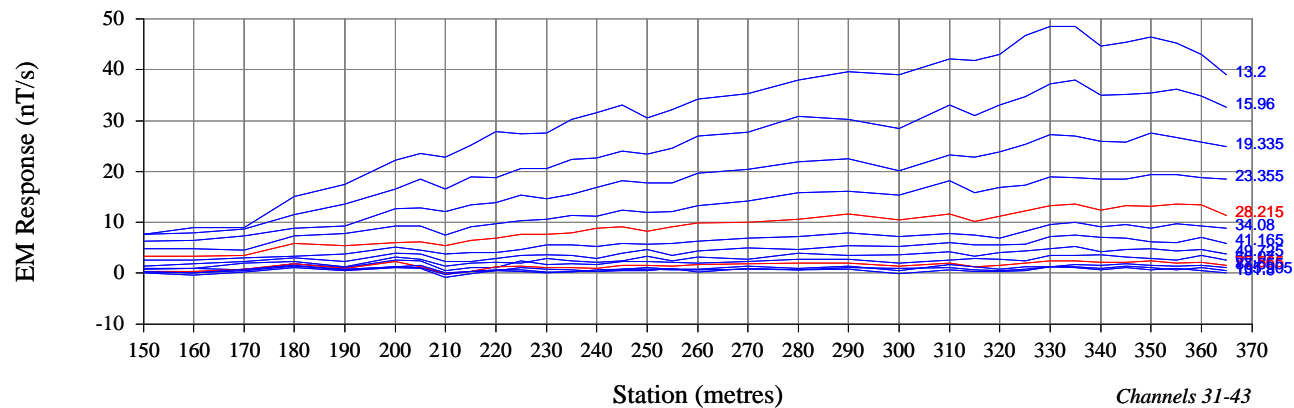
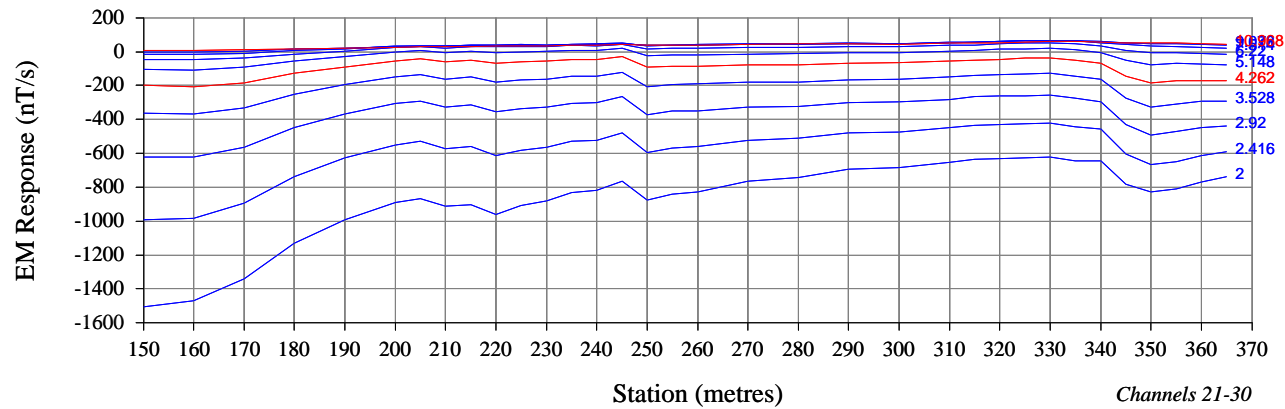
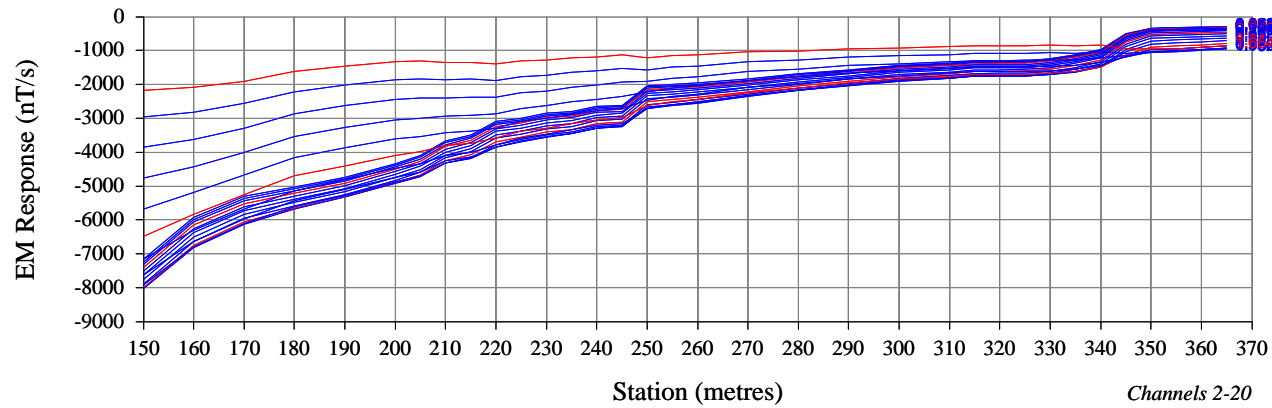
Drawn : DJL

Job No.: JN2112

Date: 16-11-2009

Fig No.:#4

U Component



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : U
Rx Coil : Crone
Rx Area : 2800m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM1
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.21
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.73
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



Outer-Rim Exploration
Services Pty Ltd

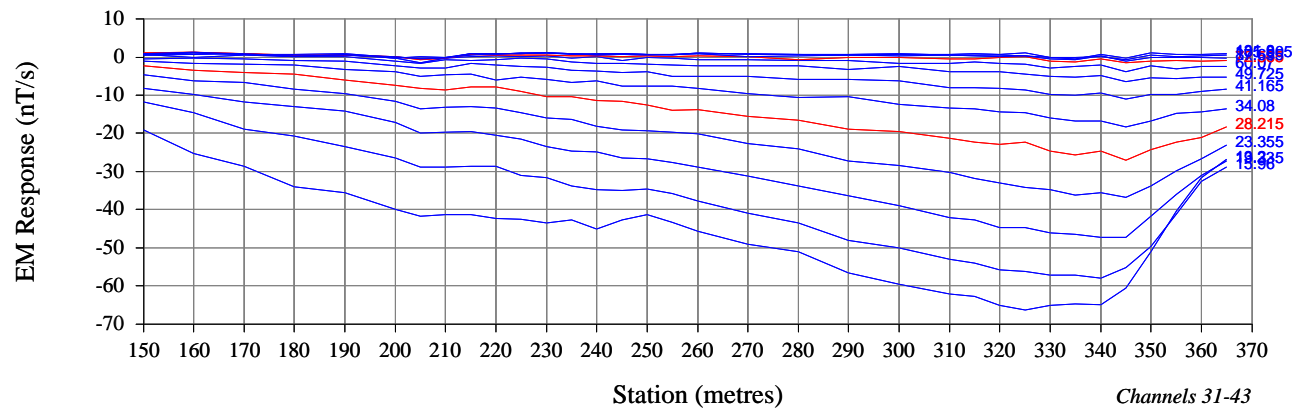
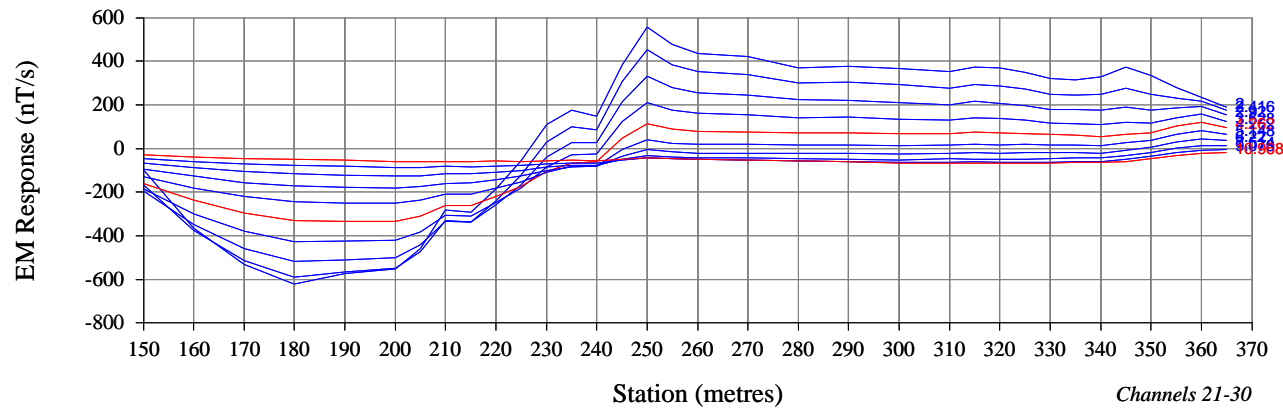
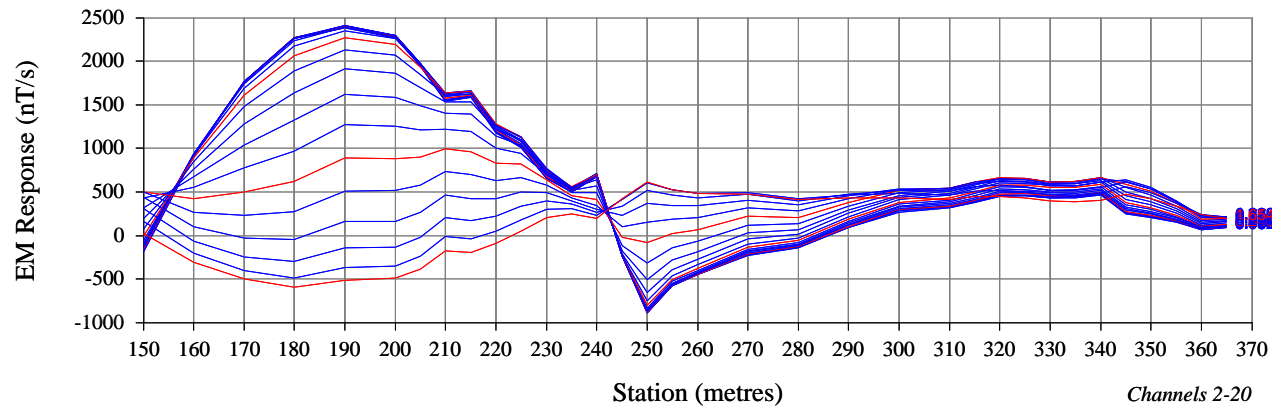
AusQuest Limited
Foxes

Downhole EM Survey
Linear Profiles - U Component
Hole 09WGD-002

Drawn : DJL
Date: 16-11-2009

Job No.: JN2112
Fig No.:#5

U Component



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : V
Rx Coil : Crone
Rx Area : 2800m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM1
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.21
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.73
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



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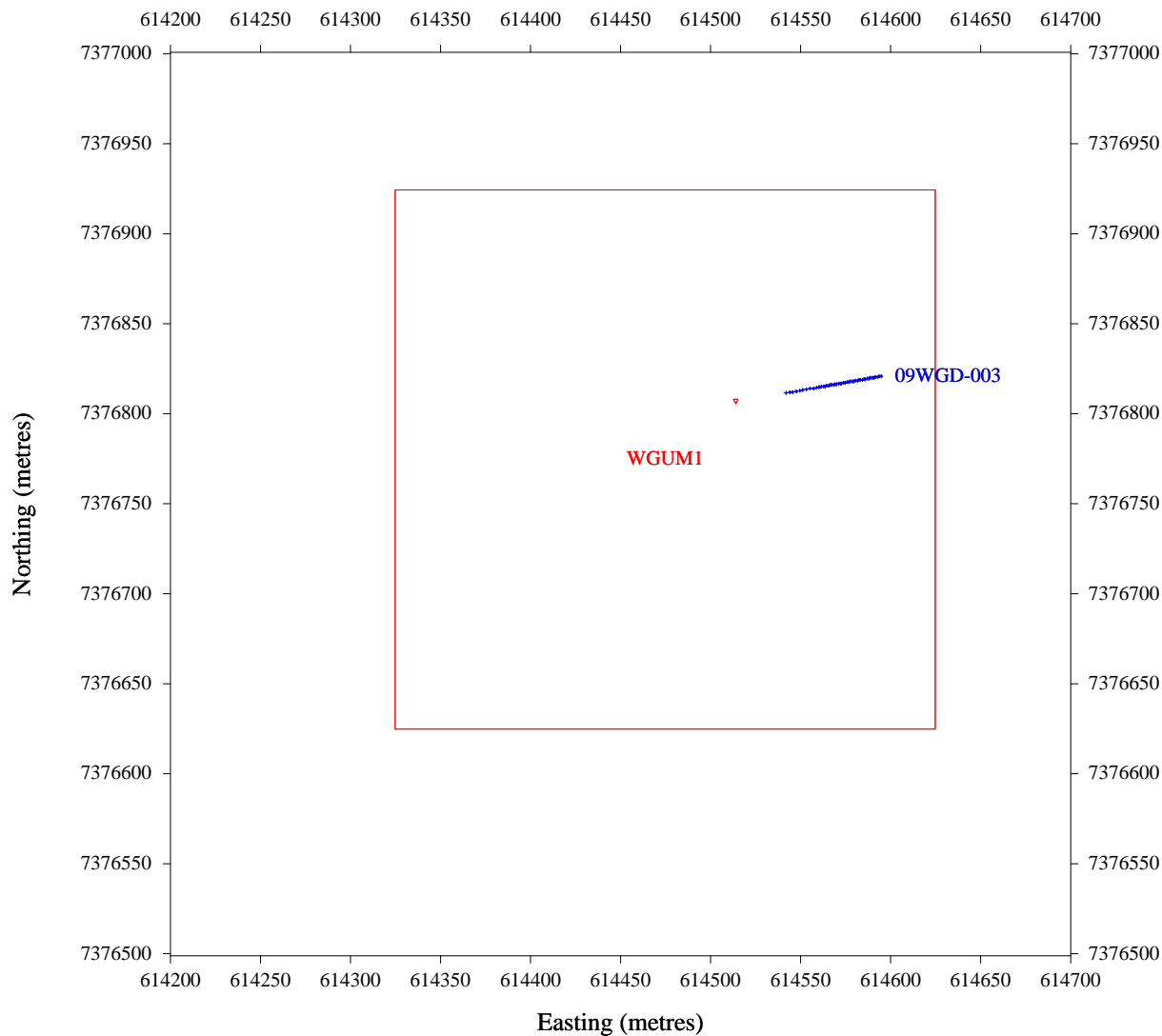
Downhole EM Survey
Linear Profiles - V Component
Hole 09WGD-002

Drawn : DJL

Job No.: JN2112

Date: 16-11-2009

Fig No.:#6



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : A,U,V
Rx Coil : Crone
Rx Area : 8300m2, 2800m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM1
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms) From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.21
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.73
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



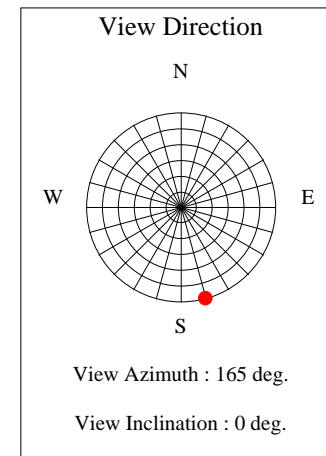
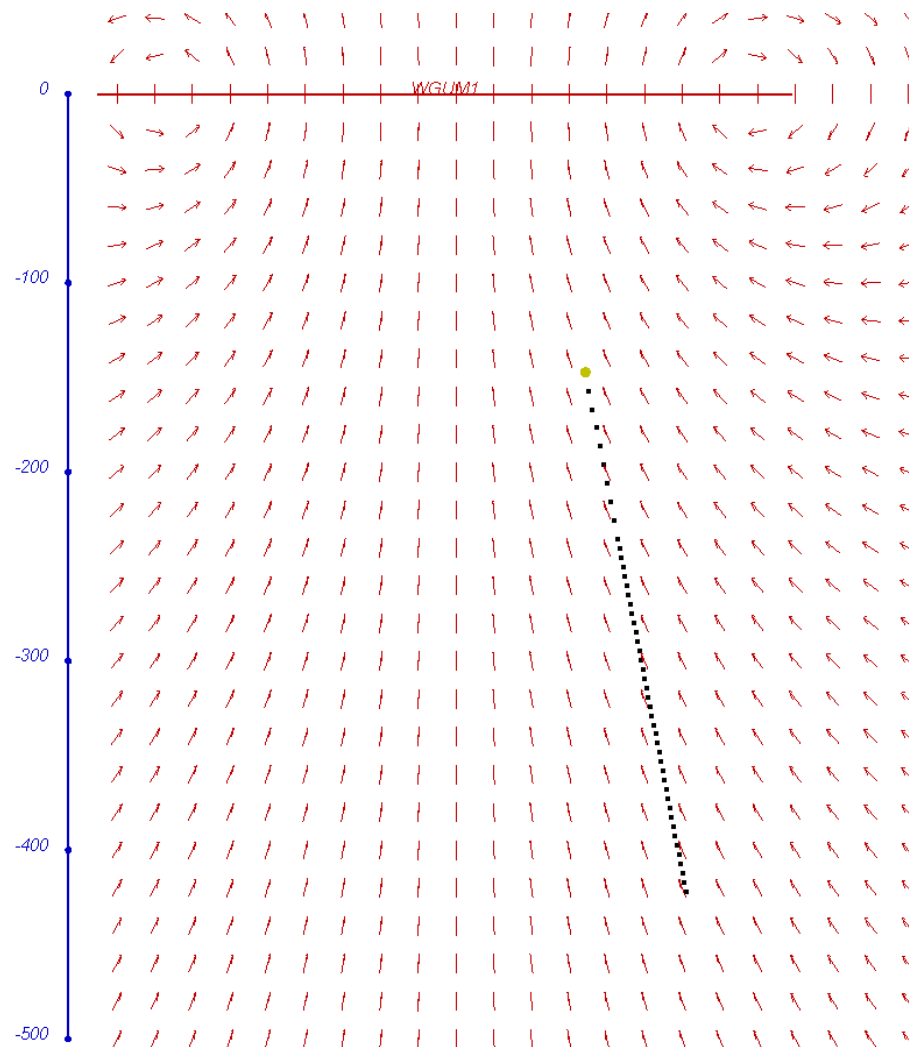
Outer-Rim Exploration
Services Pty Ltd

AusQuest Limited
Foxes

Downhole EM Survey
SURVEY LOCATION PLAN
Hole 09WGD-003

Drawn : DJL
Date: 16-11-2009

Job No.: JN 2112
Fig No.:#7



Outer-Rim Exploration
Services Pty Ltd

AusQuest Limited
Foxes

Downhole EM Survey
Primary Field Section
Hole 09WGD-003

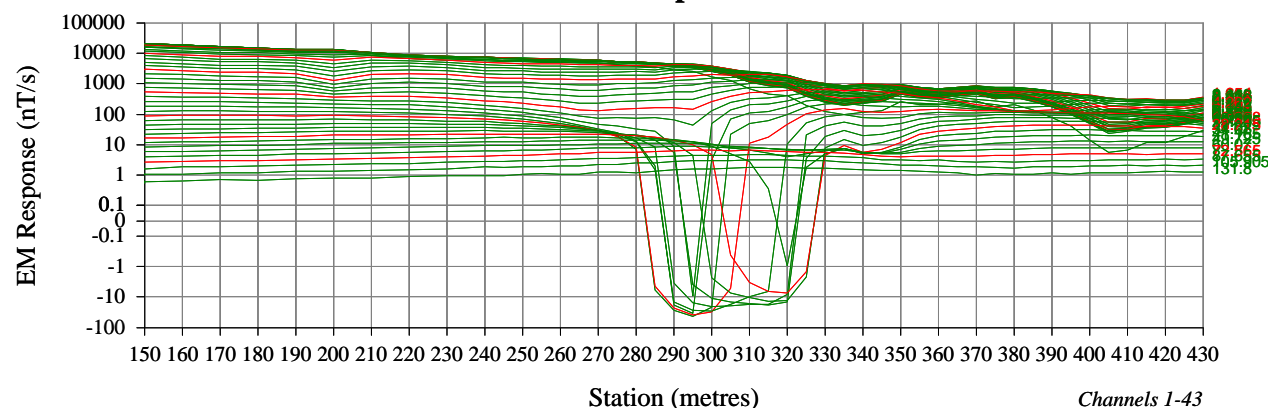
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Job No.: JN2112

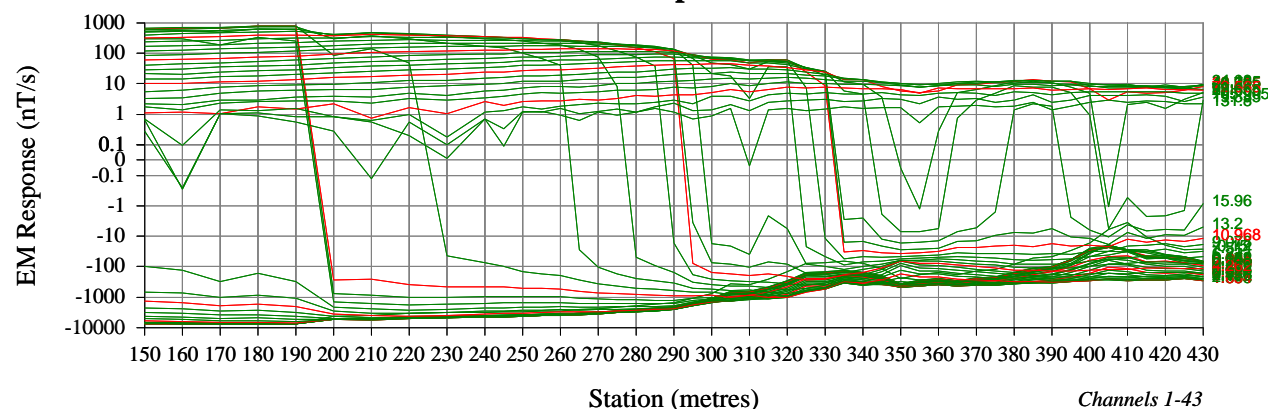
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Fig No.:#8

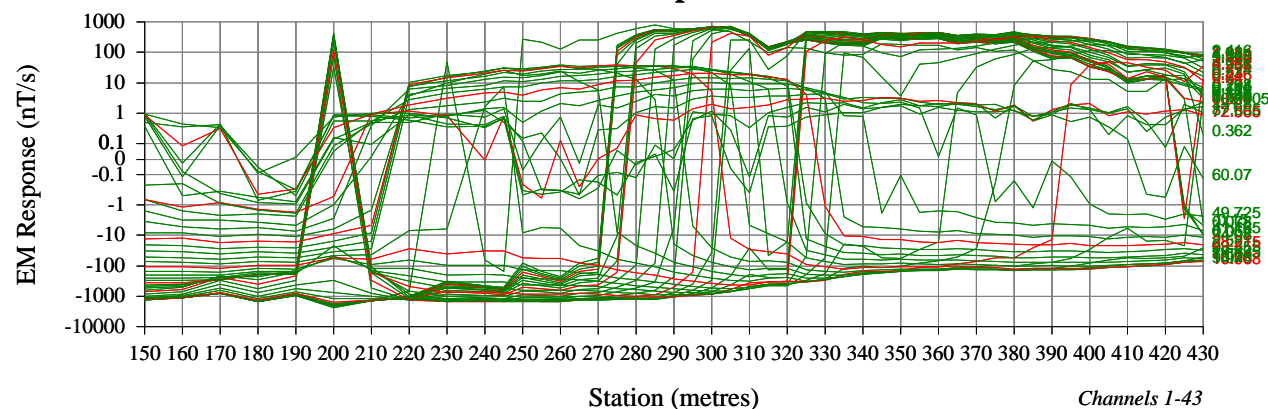
A Component



U Component



V Component



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : A
Rx Coil : Crone
Rx Area : 8000m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM1
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.22
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.72
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



Outer-Rim Exploration
Services Pty Ltd

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Foxes

Downhole EM Survey
Log/Linear Profiles
Hole 09WGD-003

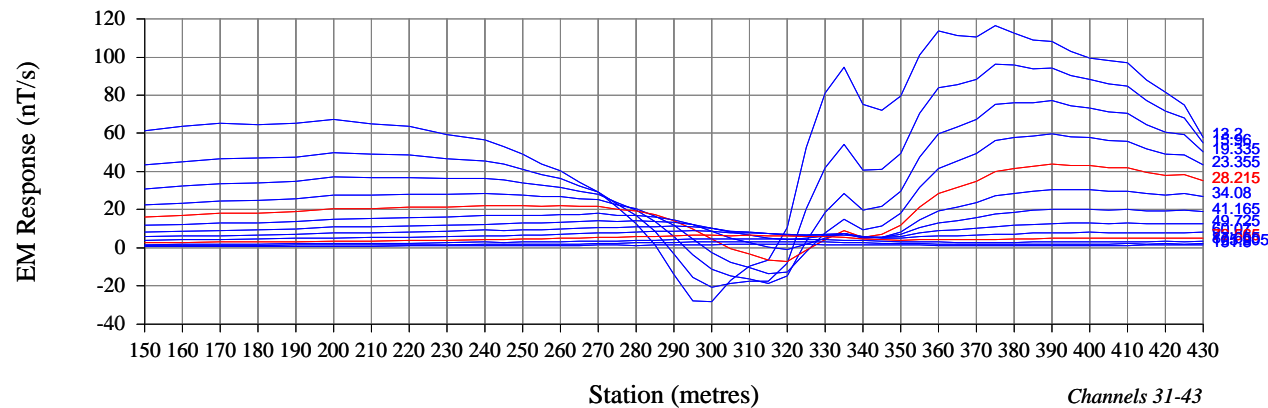
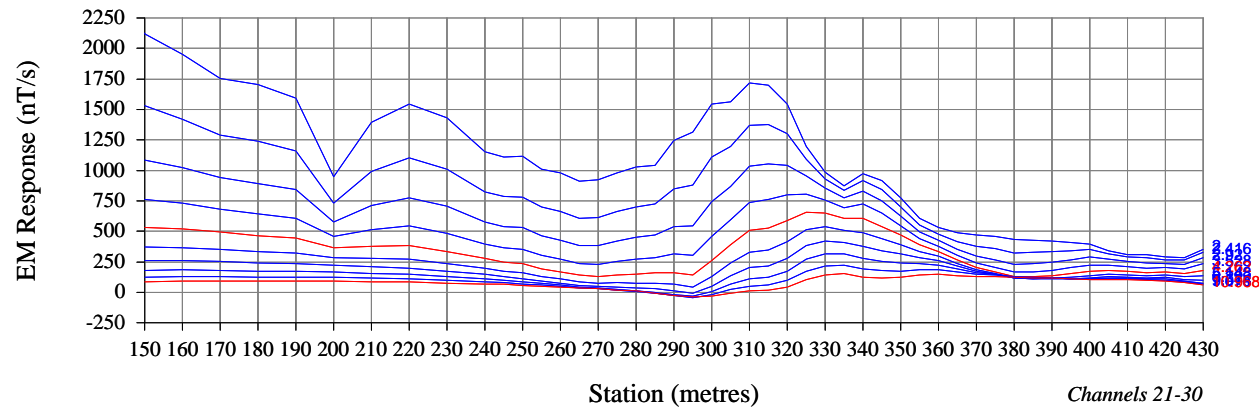
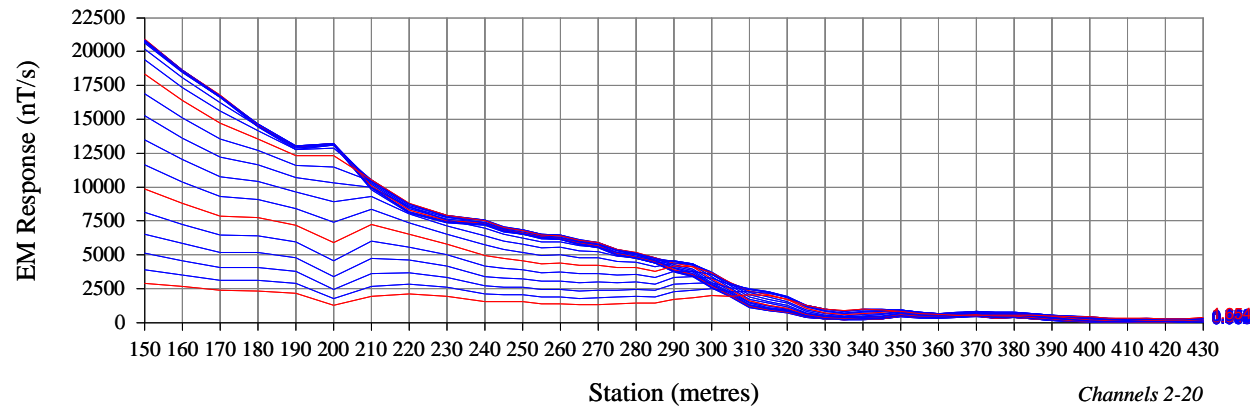
Drawn : DJL

Job No.: JN 2112

Date: 16-11-2009

Fig No.:#9

A Component



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : A
Rx Coil : Crone
Rx Area : 8000m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM1
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.21
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.73
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



Outer-Rim Exploration
Services Pty Ltd

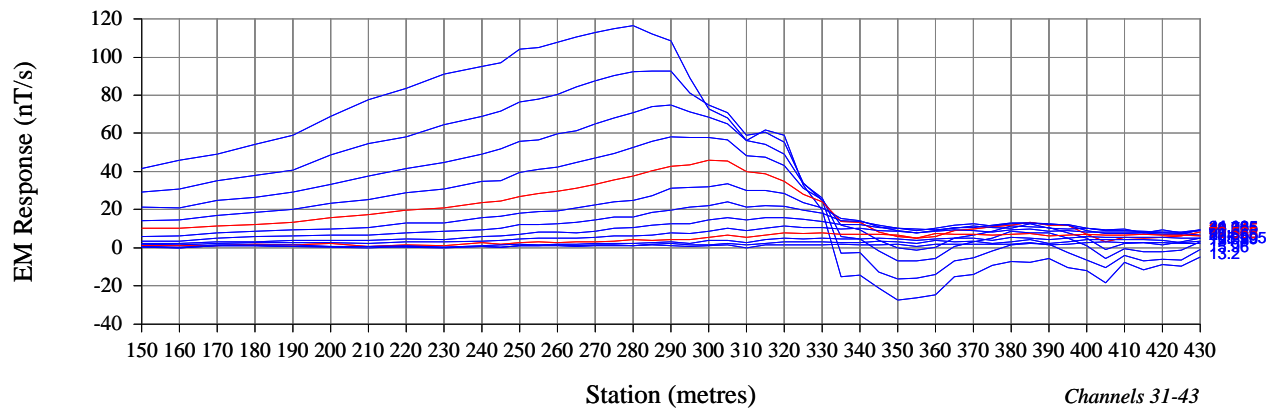
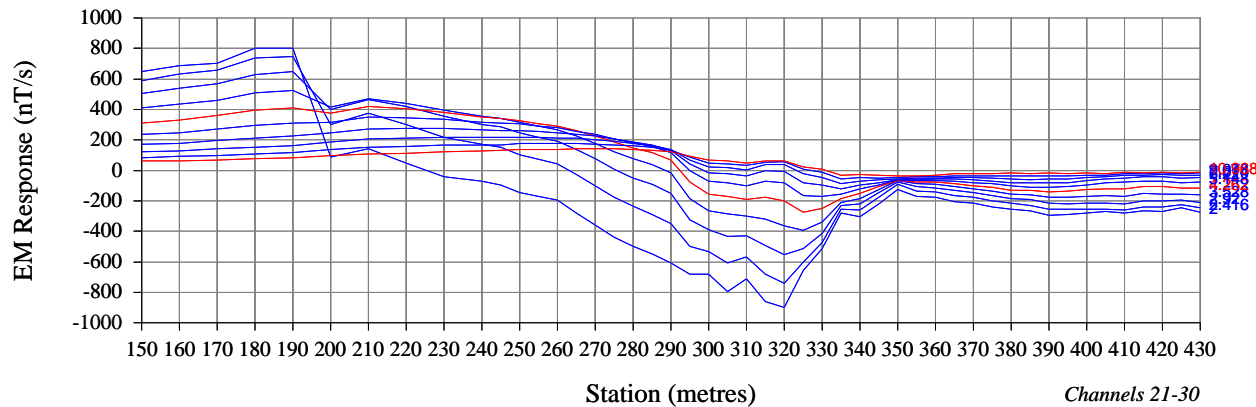
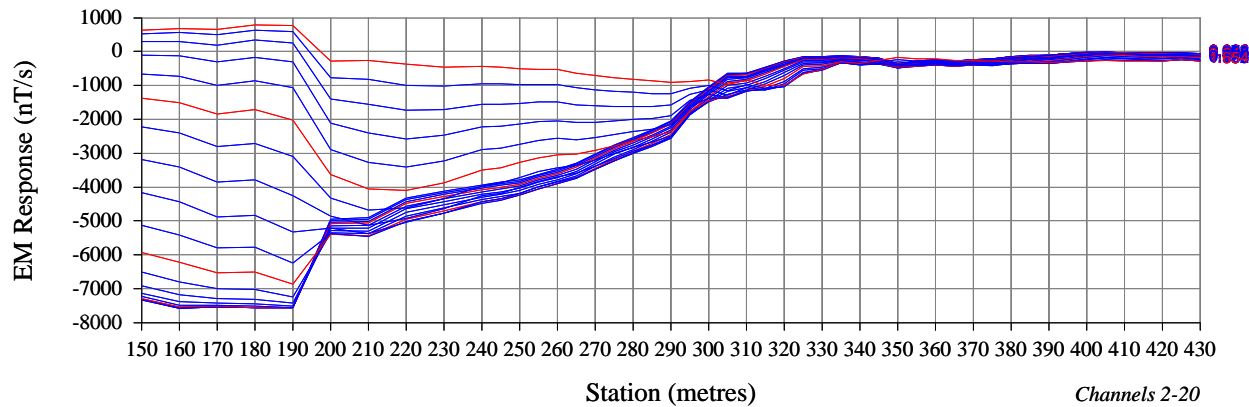
AusQuest Limited
Foxes

Downhole EM Survey
Linear Profiles - V Component
Hole 09WGD-003

Drawn : DJL
Date: 16-11-2009

Job No.: JN2112
Fig No.:#10

U Component



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : U
Rx Coil : Crone
Rx Area : 2800m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM1
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.22
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.72
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



Outer-Rim Exploration
Services Pty Ltd

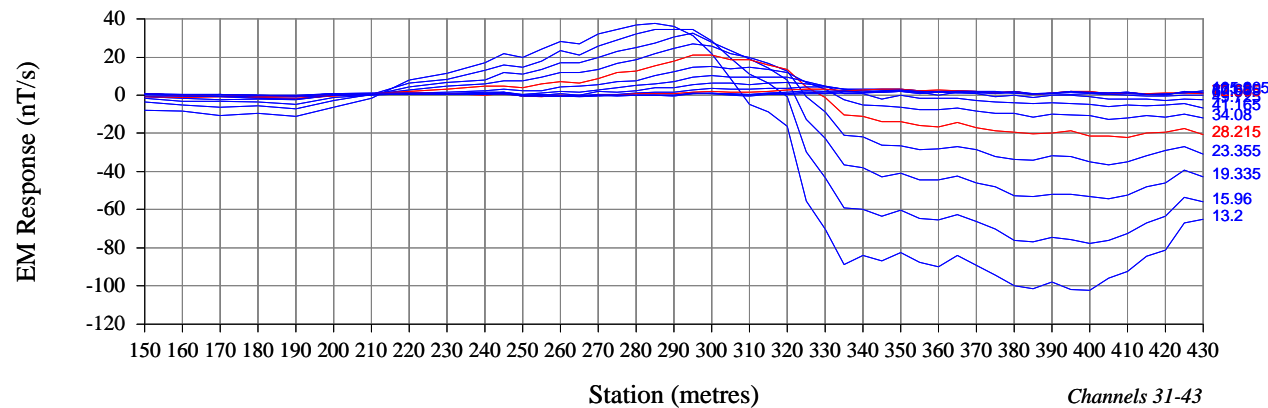
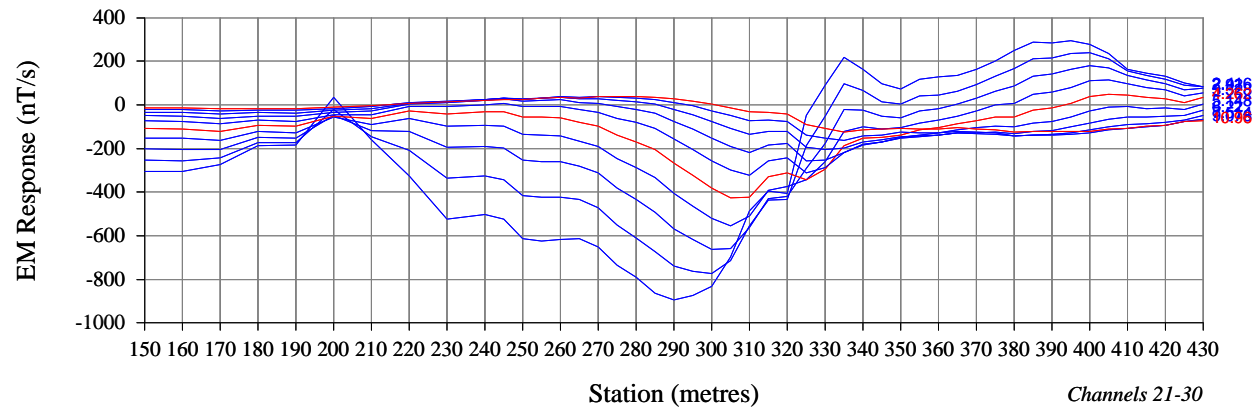
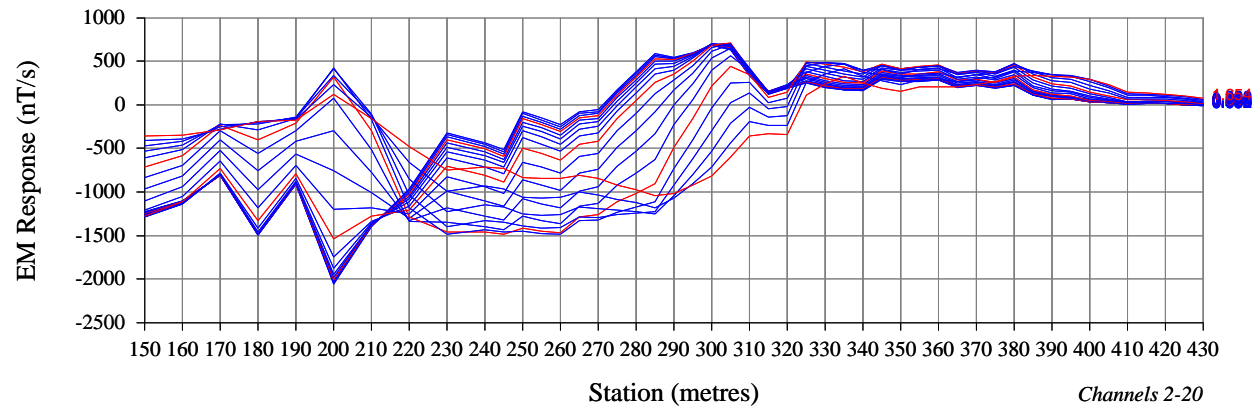
AusQuest Limited
Foxes

Downhole EM Survey
Linear Profiles - U Component
Hole 09WGD-003

Drawn : DJL
Date: 16-11-2009

Job No.: JN2112
Fig No.: #11

V Component



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : V
Rx Coil : Crone
Rx Area : 2800m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM1
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.22
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.72
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



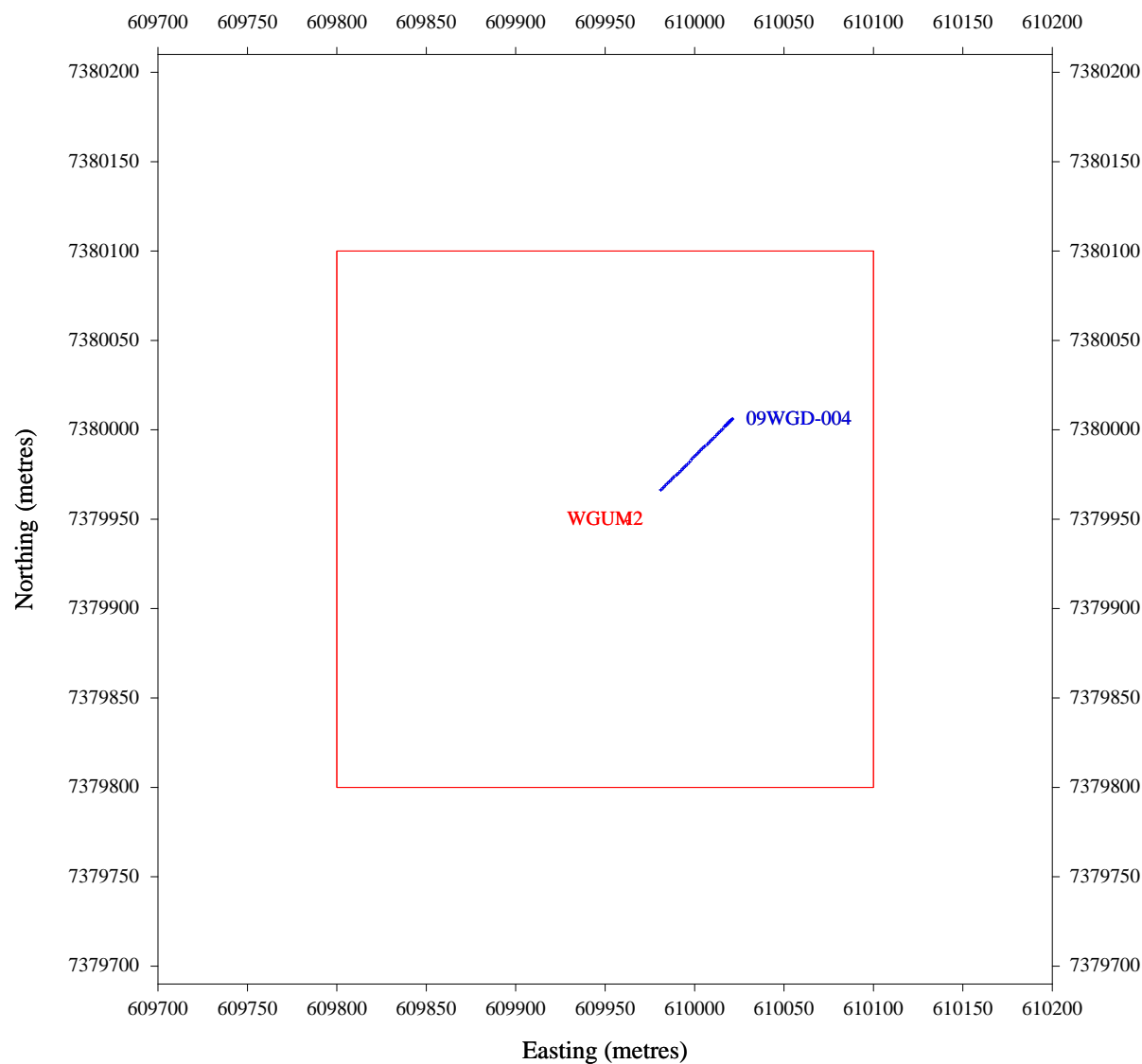
Outer-Rim Exploration
Services Pty Ltd

AusQuest Limited
Foxes

Downhole EM Survey
Linear Profiles - V Component
Hole 09WGD-003

Drawn : DJL
Date: 16-11-2009

Job No.: JN2112
Fig No.:#12



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : A,U,V
Rx Coil : Crone
Rx Area : 8300m2, 2800m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM2
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms)

From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.22
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.72
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



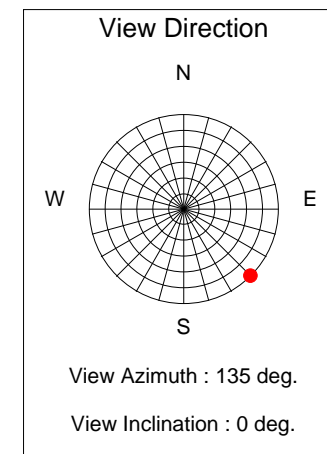
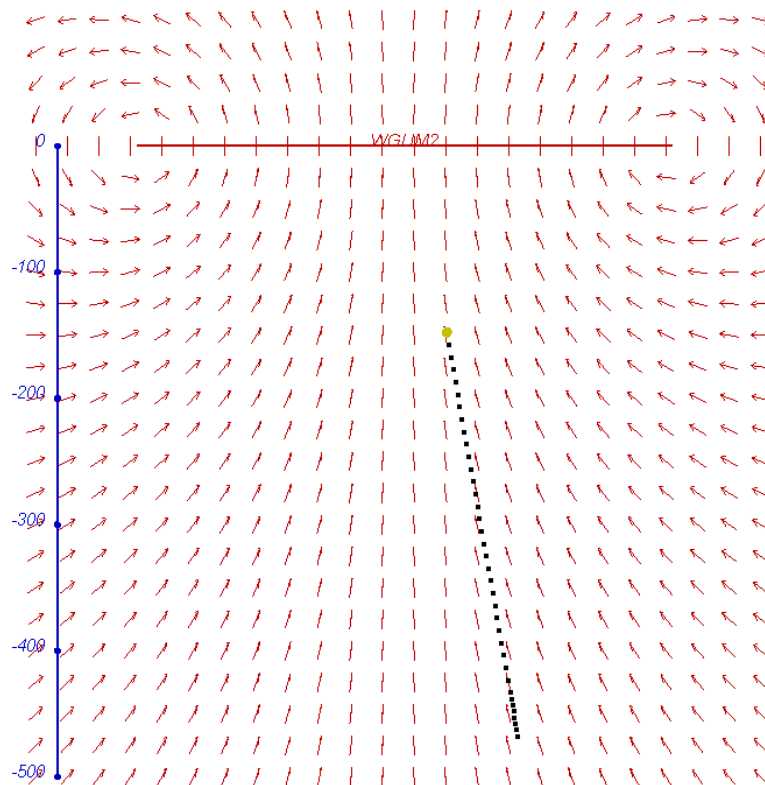
Outer-Rim Exploration
Services Pty Ltd

AusQuest Limited
Monkey Gnomes

Downhole EM Survey
SURVEY LOCATION PLAN
Hole 09WGD-004

Drawn : DJL
Date: 16-11-2009

Job No.: JN 2112
Fig No.:#13



Outer-Rim Exploration
Services Pty Ltd

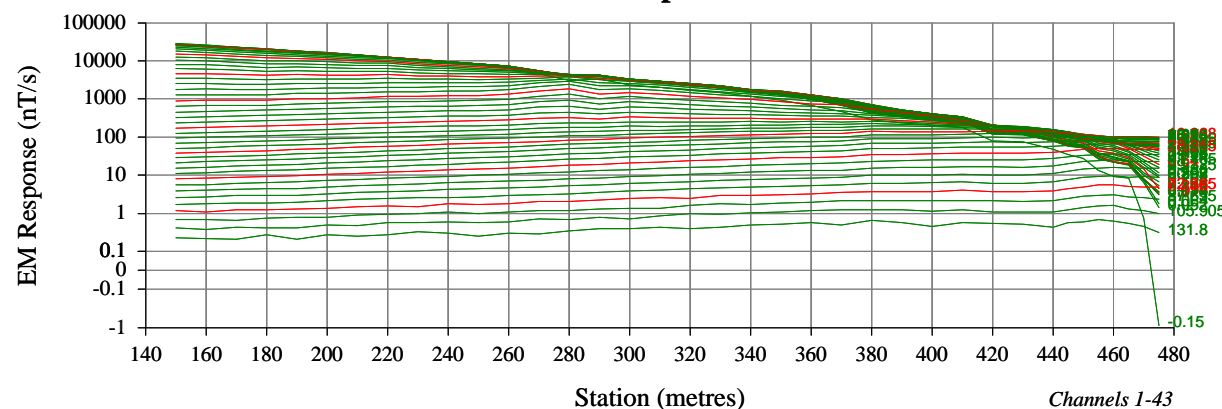
AusQuest Limited
Monkey Gnomes

Downhole EM Survey
Primary Field Section
Hole 09WGD-004

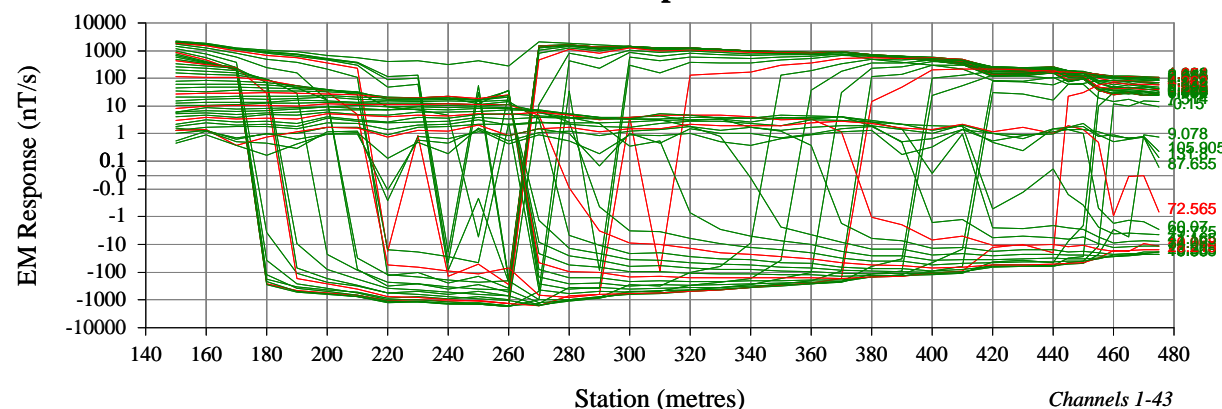
Drawn : DJL
Date: 16-11-2009

Job No.: JN 2112
Fig No.:#14

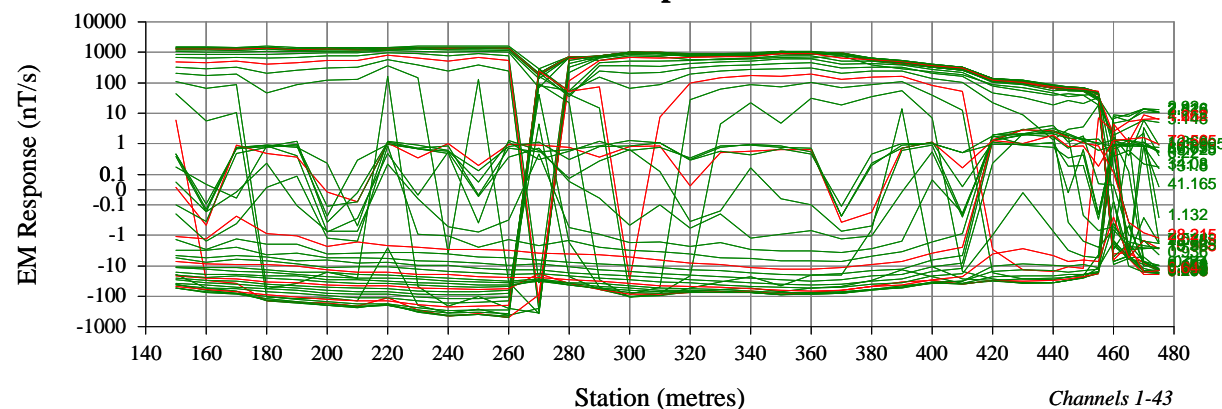
SURVEY PARAMETERS



RECEIVER



TRANSMITTER



Configuration : Downhole
Station Spacing : 5-10 m

Station Spacing : 5-10 m

RECEIVER

Receiver	: Crone
Frequency	: 1.6667
Component	: A,U,V
Rx Coil	: Crone
Rx Area	: 8000m2, 2800m2 turn-m

Frequency : 1.6667

Component : A,U,V

Rx Coil : Crone

Rx Area : 8000m², 2800m² turn-m

TRANSMITTER

Transmitter : Crone

Transmitter : CROHC
Loop : WGUM2

Tx Moment : 90000 turn-m

Tx Current : 20 A

Turn Off : 1 ms

WINDOW TIMES (ms): Centre
From the start of the Ramp

From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.22
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.72
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	

2 : 1.052 13 : 1.438 24 : 4.528 35 : 29.22

3 : 1.064 14 : 1.530 25 : 5.262 36 : 35.08

4 : 1.078 15 : 1.640 26 : 6.148 37 : 42.16

5 : 1.094 16 : 1.774 27 : 7.220 38 : 50.72

6 : 1.114 17 : 1.936 28 : 8.514 39 : 61.07

7 : 1.138 18 : 2.132 29 : 10.08 40 : 73.56

8 : 1.168 19 : 2.368 30 : 11.97 41 : 88.66

9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
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10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
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11 : 1.298 22 : 3.416 33 : 20.33



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Log/Linear Profiles

Hole 09WGD-004

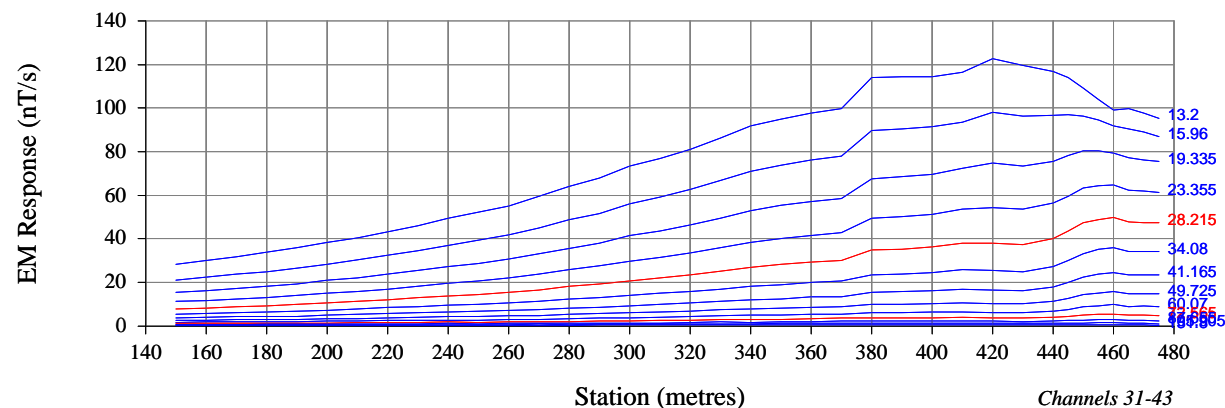
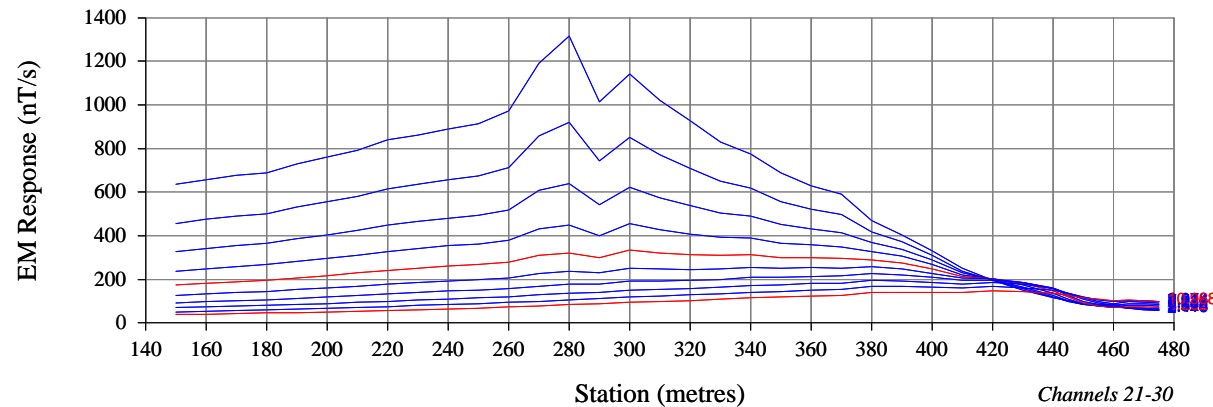
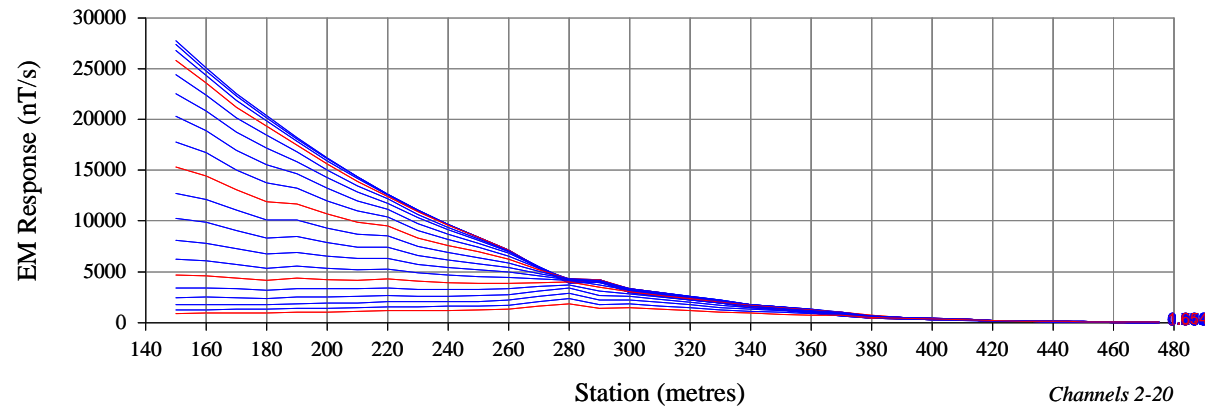
Drawn : DJL

Job No.: JN 2112

Date: 16-11-2009

Fig No.:#15

A Component



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : A
Rx Coil : Crone
Rx Area : 8000m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM2
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.22
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.72
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



Outer-Rim Exploration
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Downhole EM Survey
Log/Linear Profiles
Hole 09WGD-004

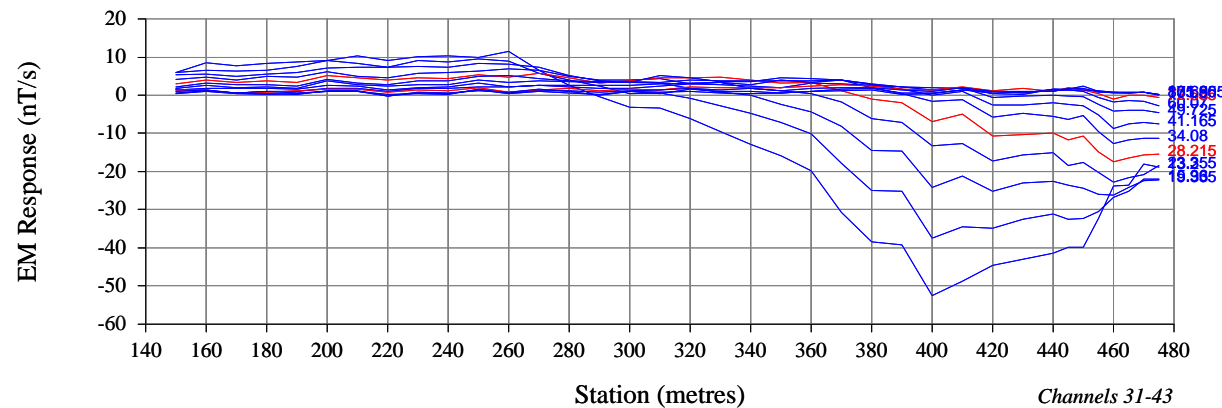
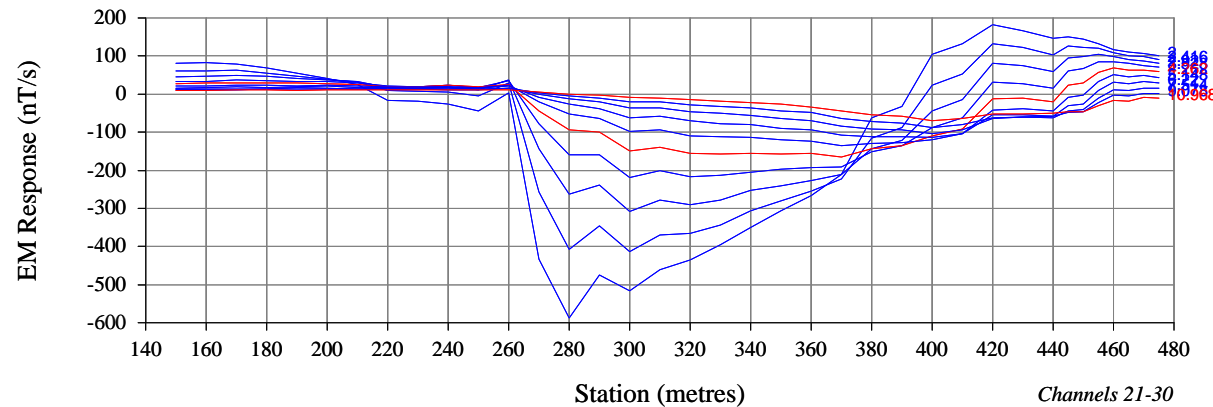
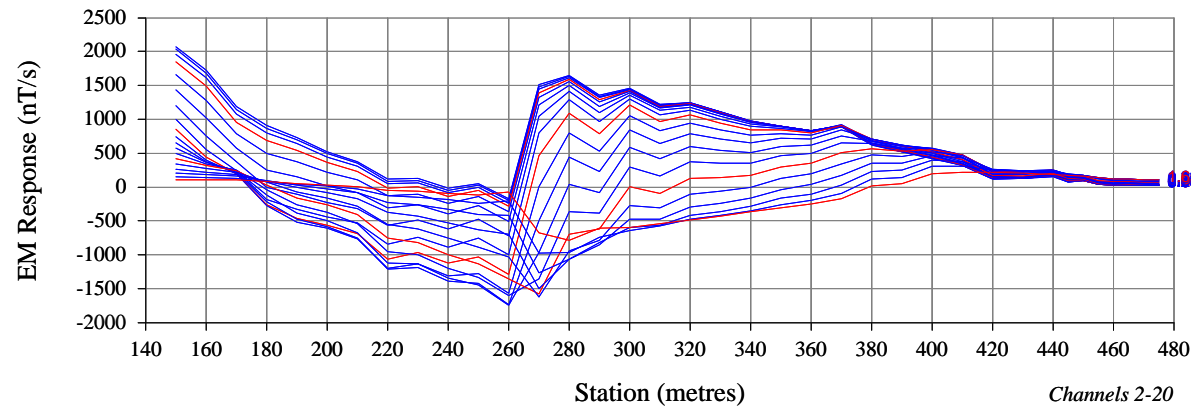
Drawn : DJL

Job No.: JN 2112

Date: 16-11-2009

Fig No.:#16

U Component



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : U
Rx Coil : Crone
Rx Area : 2800m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM2
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.22
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.72
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



Outer-Rim Exploration
Services Pty Ltd

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Foxes

Downhole EM Survey
Log/Linear Profiles
Hole 09WGD-004

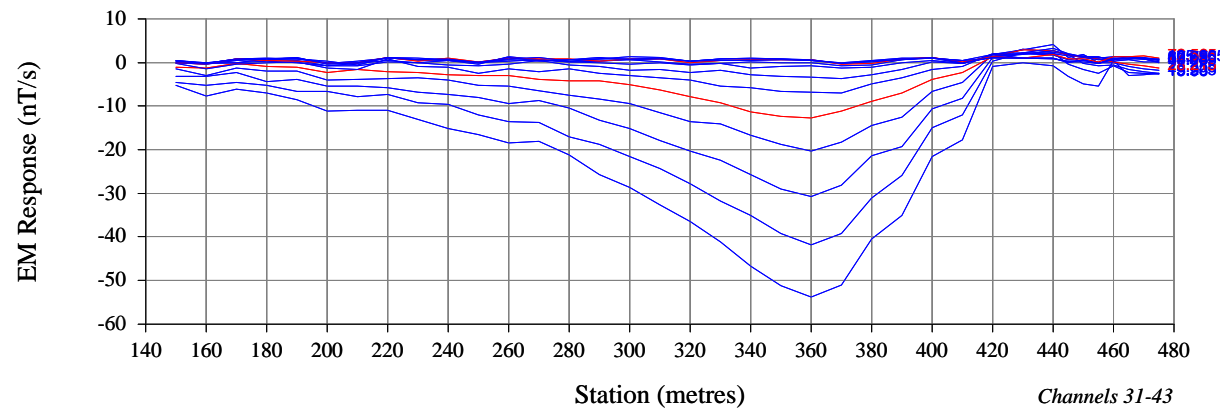
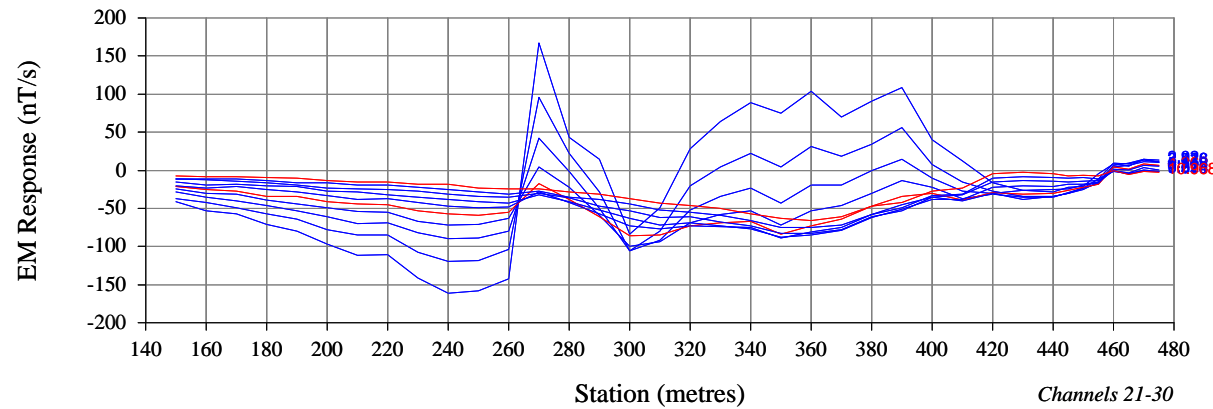
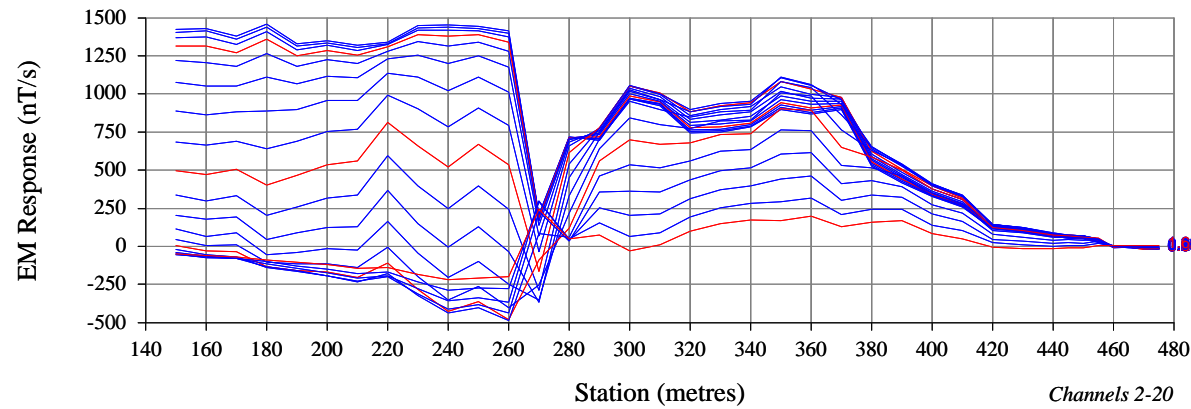
Drawn : DJL

Job No.: JN 2112

Date: 16-11-2009

Fig No.:#17

V Component



SURVEY PARAMETERS

Configuration : Downhole
Station Spacing : 5-10 m

RECEIVER

Receiver : Crone
Frequency : 1.6667
Component : V
Rx Coil : Crone
Rx Area : 2800m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : WGUM2
Tx Moment : 90000 turn-m
Tx Current : 20 A
Turn Off : 1 ms

WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.8500	12 : 1.362	23 : 3.920	34 : 24.36
2 : 1.052	13 : 1.438	24 : 4.528	35 : 29.22
3 : 1.064	14 : 1.530	25 : 5.262	36 : 35.08
4 : 1.078	15 : 1.640	26 : 6.148	37 : 42.16
5 : 1.094	16 : 1.774	27 : 7.220	38 : 50.72
6 : 1.114	17 : 1.936	28 : 8.514	39 : 61.07
7 : 1.138	18 : 2.132	29 : 10.08	40 : 73.56
8 : 1.168	19 : 2.368	30 : 11.97	41 : 88.66
9 : 1.204	20 : 2.654	31 : 14.20	42 : 106.9
10 : 1.246	21 : 3.000	32 : 16.96	43 : 132.8
11 : 1.298	22 : 3.416	33 : 20.33	



Outer-Rim Exploration
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Downhole EM Survey
Log/Linear Profiles
Hole 09WGD-004

Drawn : DJL
Date: 16-11-2009

Job No.: JN 2112
Fig No.:#18