



OUTER-RIM EXPLORATION SERVICES

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Geophysical Contracting Services

100% Australian Owned

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Volume 1 of 1

Client : TNG Limited

Prospect : Mt Peake

Area : Tennant Creek, NT

Survey : Surface PEM Survey

Survey Period : 15th to 20th August, 2010

Operator : Elliot Spicer

DAILY LOG: TNG Limited - August, 2010

DATE	COMMENTS	CHARGES
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Operator: Elliot Spicer
Field Assistants: Craig Oyen, Joe Shields

14-08-10	We went food shopping when the shops opened at 9:00am, then drove out to Stirling Station, south of Tennant Creek. We were shown around the station, unpacked all our gear and set up an area to charge the gear. We finished up at 4:30pm.	1 Mob. day \$1350.00
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15-08-10	We left the station at 6:45am, headed out to site but could only get within 10kms of the first line. The bush was too thick to take a direct route, so we drove down some over-grown tracks and picked our way through the bush until we were within a couple hundred metres of the line. By then it was 12:30pm. We set up the first loop, and read six loops. We then packed up and spent 2½ hours driving home. We arrived back at the station at 6:15pm.	
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SURVEY PARAMETERS:

Loop Moving :200 x 200m
317300E, 7599850N; 317100E, 7599850N;
317300E, 7599650N; 317100E, 7599650N.

Current :17 Amps
Resistance :3.2 Ohms
Time Base :50 ms
Ramp Time :1.5 ms
Sync :Cable

Line No. :7599750N
318000E to 317800N (250m @ 50m stations)

Channels :36
Components :Z,X,Y

1 Survey day \$2250.00
2 Field Assist. day \$ 600.00

16-08-10	We left the station at 6:45am, headed out to site, arrived a few hours later, walked out to the loop, set up and read the rest of the line. We packed up, walked back 900m to the car, packed up and headed back to the station, arriving at 5:20pm.	
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SURVEY PARAMETERS:

Loop Moving :200 x 200m
317300E, 7599850N; 317100E, 7599850N;
317300E, 7599650N; 317100E, 7599650N.

Current :17 Amps
Resistance :3.2 Ohms
Time Base :50 ms

Ramp Time :1.5 ms
Sync :Cable

Line No. :7599750N
317800E to 317200N (600m @ 50m stations)
Channels :36
Components :Z,X,Y

1 Survey day \$2250.00
2 Field Assist. day \$ 600.00

17-08-10 We drove out to line #2 but couldn't find a way to get close to the line because of fences and thick bush. We spoke to John and Ben Jones and it was decided to move onto lines #3 and #4. We drove about 50kms around the fenceline to collect our trailer and bike, then tried many tracks to get close to lines #3 and #4 which all ended at fences, dead ends and a flooded lake. We spoke to someone out there and we were told that there were no tracks to the area we wanted, so we tried a track they suggested which got us within 3kms of line #3 and 10kms of line #4. We dropped the trailer off and headed back to the station.

1 Survey day \$2250.00
2 Field Assist. day \$ 600.00

18-08-10 We started day at 6:40am, drove 2hrs to the next area, unpacked the bike and trailer and then biked out 2.5km to the line. We surveyed the entire line, packed up and biked back the 2.5km. We then packed up and drove 2hrs back to the station, finishing at 6:50pm.

SURVEY PARAMETERS:

Loop Moving :200 x 200m
314700E, 7621400N; 314500E, 7621400N;
314700E, 7621200N; 314500E, 7621200N.

Current :16 Amps
Resistance :3.2 Ohms
Time Base :50 ms
Ramp Time :1.5 ms
Sync :Cable

Line No. :7621300N
314600E to 315400N (800m @ 50m stations)
Channels :36
Components :Z,X,Y

1¼ Survey day \$2812.50
2½ Field Assist. day \$ 750.00

19-08-10 We started day at 7:00am, drove 2hrs to the trailer, fixed a puncture on the bike trailer and drove down some tracks until we were within 4.5kms of line #4. We set up the bike and trailer, then biked out 4.5kms through thick bush to line #4. We set up the first loop, did

our tests, then biked back 4.5kms to the car, packed up and drove 2hrs back to the station, finishing at 5:15pm.

1 Survey day \$2250.00
2 Field Assist. day \$ 600.00

20-08-10 We started the day at 6:30am, drove 2hrs out to site and arrived at the trailer. The guys biked out 4.5kms to recover the loop while I sorted out the gear and trailer. The guys arrived back, we loaded the car and trailer and drove back to the station, arriving at 1:00pm. We packed the rest of the gear and then drove to Alice Springs, arriving at 3:45pm.

$\frac{3}{4}$ Survey day \$1687.50
 $1\frac{1}{2}$ Field Assist. day \$ 450.00
 $\frac{1}{4}$ Mob. day \$ 337.50

21-08-10 We left Alice Springs at 6:20am and drove to Port Augusta, arriving at 6:40pm.

$1\frac{1}{4}$ Mob. day \$1687.50

22-08-10 We left Port Augusta at 7:00am and drove to the Border Village arriving at 6:00pm.

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/m^2).

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 minerals through 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

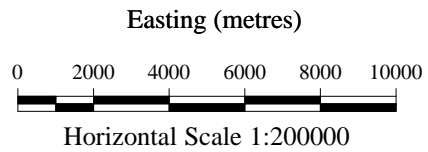
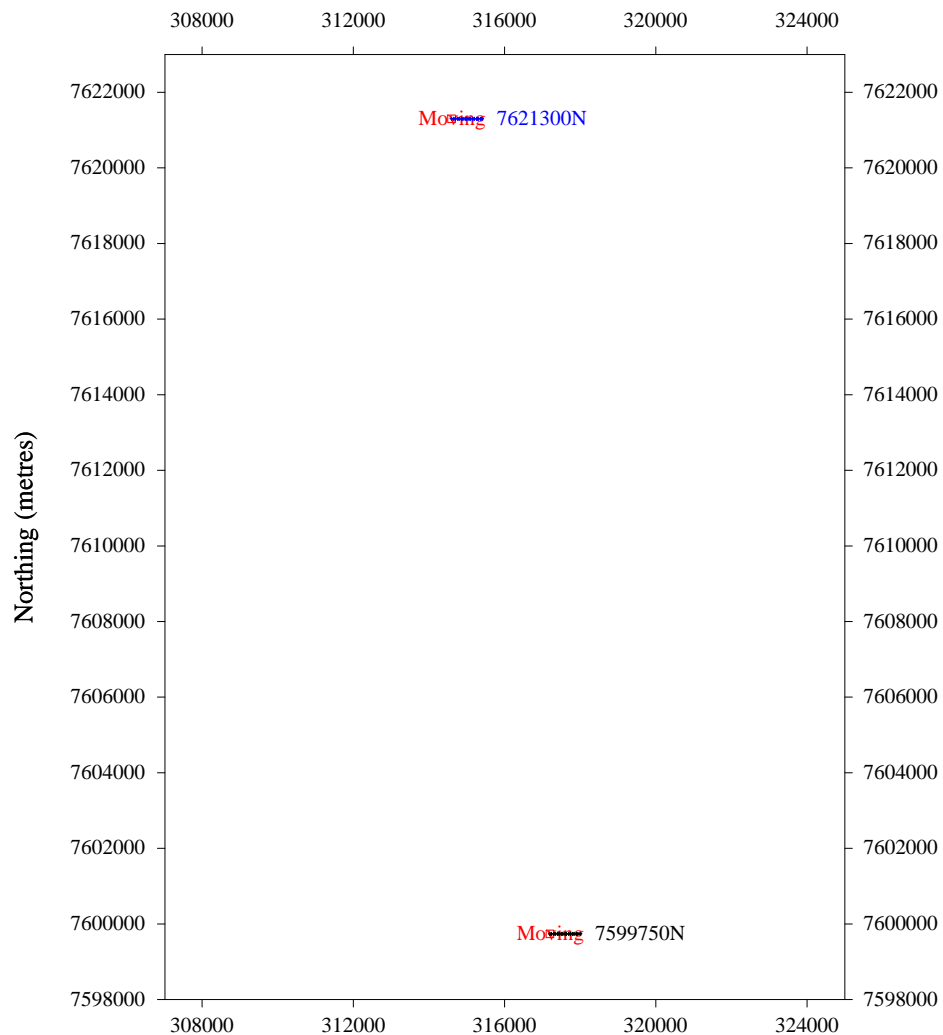
- **Diamonds** ⇒ detection and definition of clay-rich layer overlying kimberlites
⇒ locating kimberlites under locally thinned conductive cover

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



SURVEY PARAMETERS

Configuration : In-Loop
 Station Spacing : 50 m

RECEIVER

Receiver : Crone
 Frequency : 5
 Component : Z,X,Y
 Rx Coil : Crone
 Rx Area : 4090m2 turn-m

TRANSMITTER

Transmitter : Crone
 Loop : Moving
 Tx Moment : 40000 turn-m
 Tx Current : 17 A
 Turn Off : 1.5 ms

**WINDOW TIMES (ms)
 From the start of the Ramp**

1 : 1.350	11 : 1.798	21 : 3.500	31 : 14.70
2 : 1.552	12 : 1.862	22 : 3.916	32 : 17.46
3 : 1.564	13 : 1.938	23 : 4.420	33 : 20.84
4 : 1.578	14 : 2.030	24 : 5.028	34 : 24.86
5 : 1.594	15 : 2.140	25 : 5.762	35 : 29.72
6 : 1.614	16 : 2.274	26 : 6.648	36 : 35.58
7 : 1.638	17 : 2.436	27 : 7.720	37 : 42.66
8 : 1.668	18 : 2.632	28 : 9.014	
9 : 1.704	19 : 2.868	29 : 10.58	
10 : 1.746	20 : 3.154	30 : 12.47	



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 Mt Peake

In-Loop EM Survey
 Survey Location Plan
Lines 7599750N and 7621300N

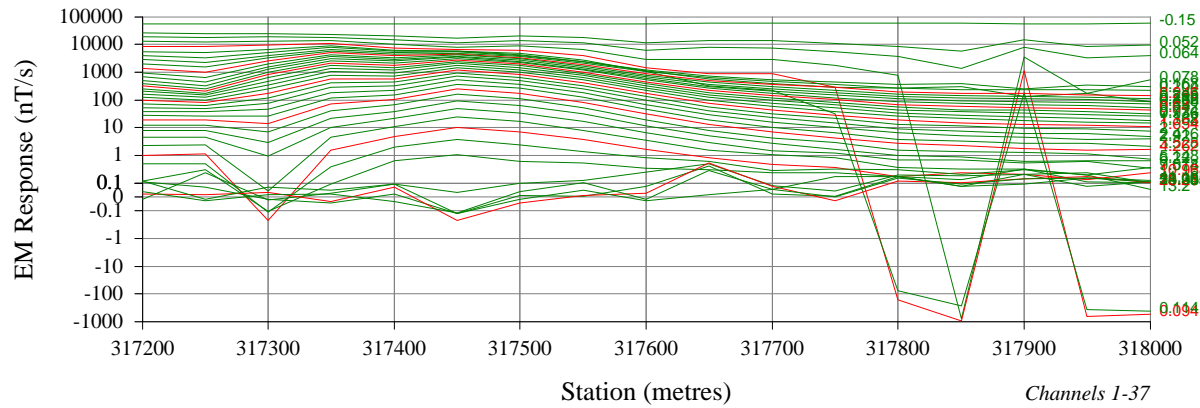
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Job No.: JN 2349

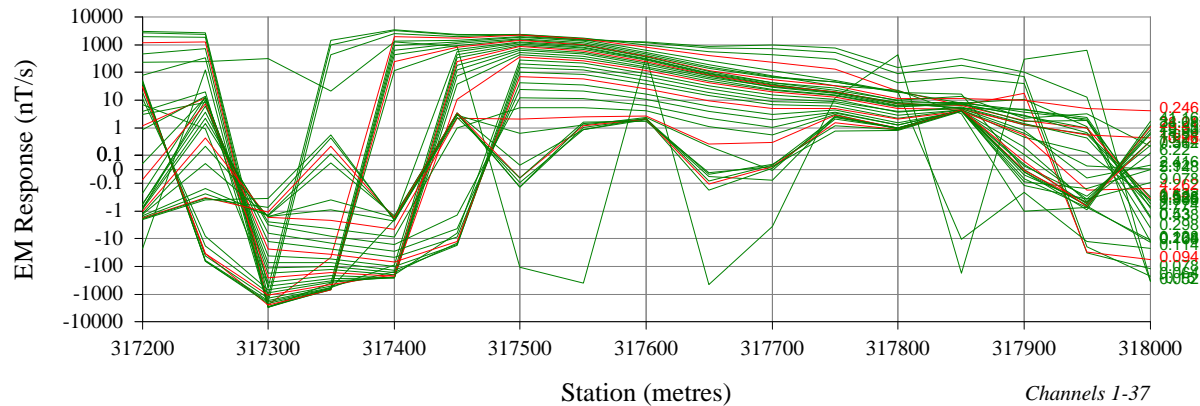
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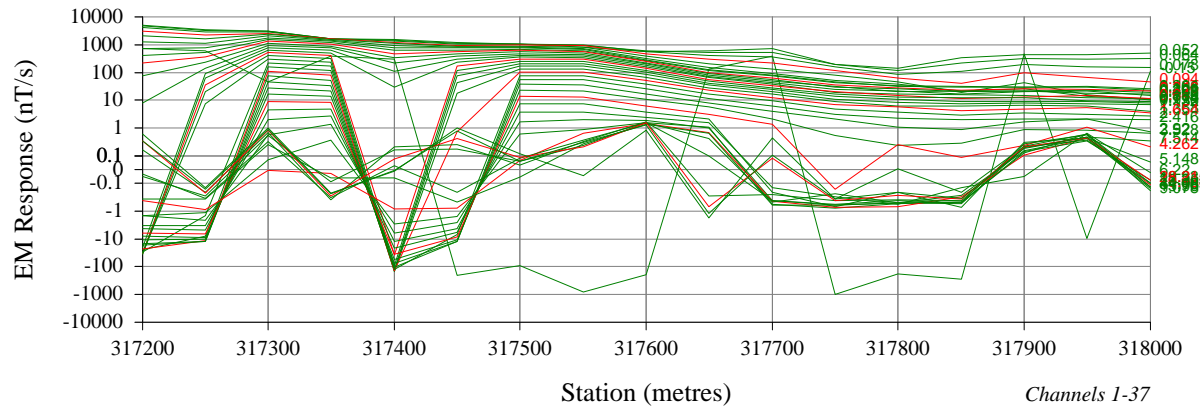
Z Component



X Component



Y Component



SURVEY PARAMETERS

Configuration : In-Loop
Station Spacing : 50 m

RECEIVER

Receiver : Crone
Frequency : 5
Component : Z,X,Y
Rx Coil : Crone
Rx Area : 4090m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : Moving
Tx Moment : 40000 turn-m
Tx Current : 17 A
Turn Off : 1.5 ms

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

1 : 1.350	11 : 1.798	21 : 3.500	31 : 14.70
2 : 1.552	12 : 1.862	22 : 3.916	32 : 17.46
3 : 1.564	13 : 1.938	23 : 4.420	33 : 20.84
4 : 1.578	14 : 2.030	24 : 5.028	34 : 24.86
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10 : 1.746	20 : 3.154	30 : 12.47	



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In-Loop EM Survey
Log-Linear Profiles
Line 7599750N

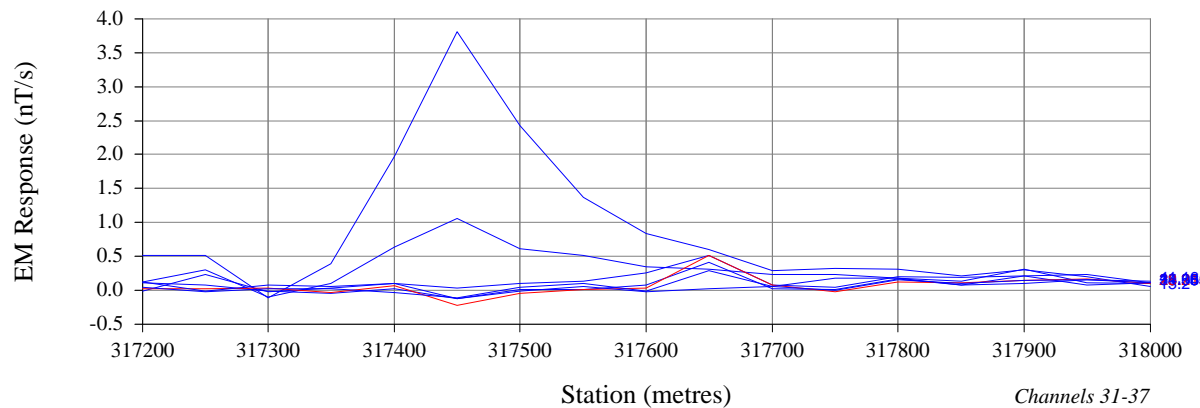
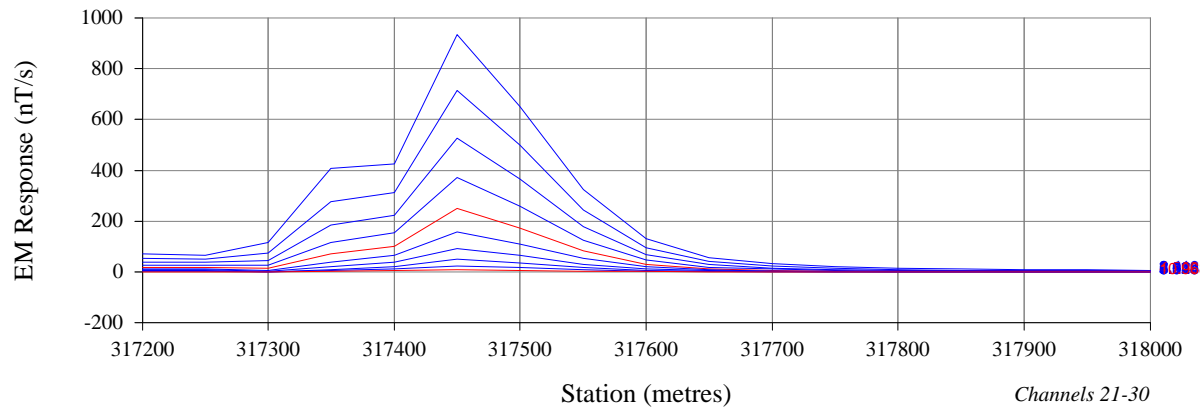
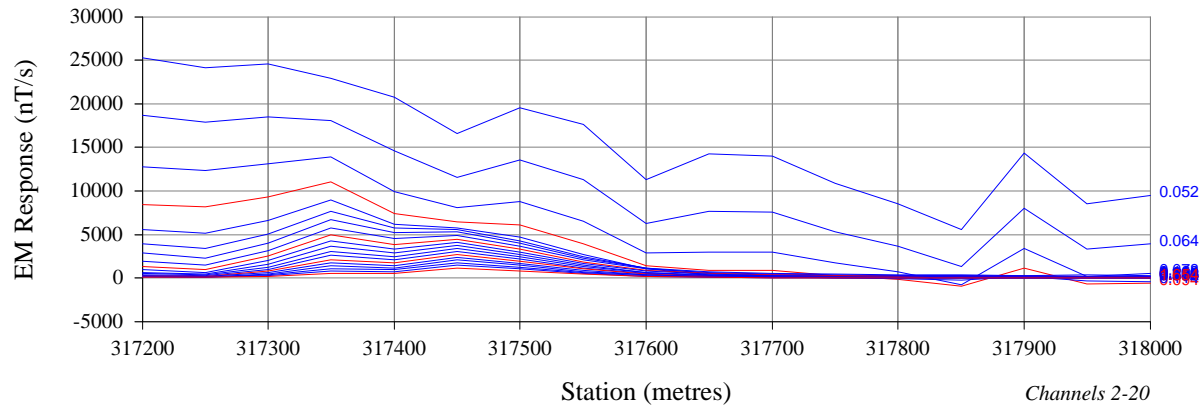
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Job No.: JN 2349

Date: 01-09-2010

Fig No.:#2

Z Component



SURVEY PARAMETERS

Configuration : In-Loop
Station Spacing : 50 m

RECEIVER

Receiver : Crone
Frequency : 5
Component : Z
Rx Coil : Crone
Rx Area : 4090m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : Moving
Tx Moment : 40000 turn-m
Tx Current : 17 A
Turn Off : 1.5 ms

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

1 : 1.350	11 : 1.798	21 : 3.500	31 : 14.70
2 : 1.552	12 : 1.862	22 : 3.916	32 : 17.46
3 : 1.564	13 : 1.938	23 : 4.420	33 : 20.84
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10 : 1.746	20 : 3.154	30 : 12.47	



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In-Loop EM Survey
Linear Profiles - Z Component
Line 7599750N

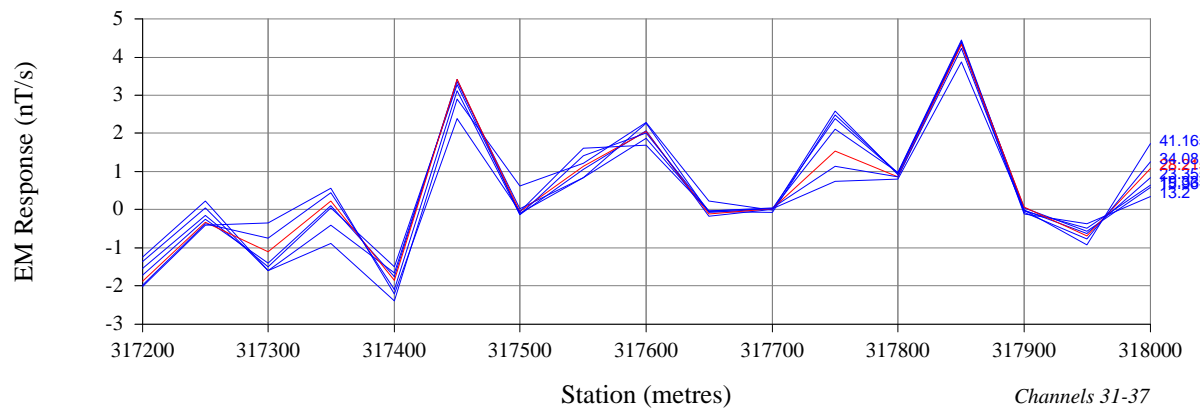
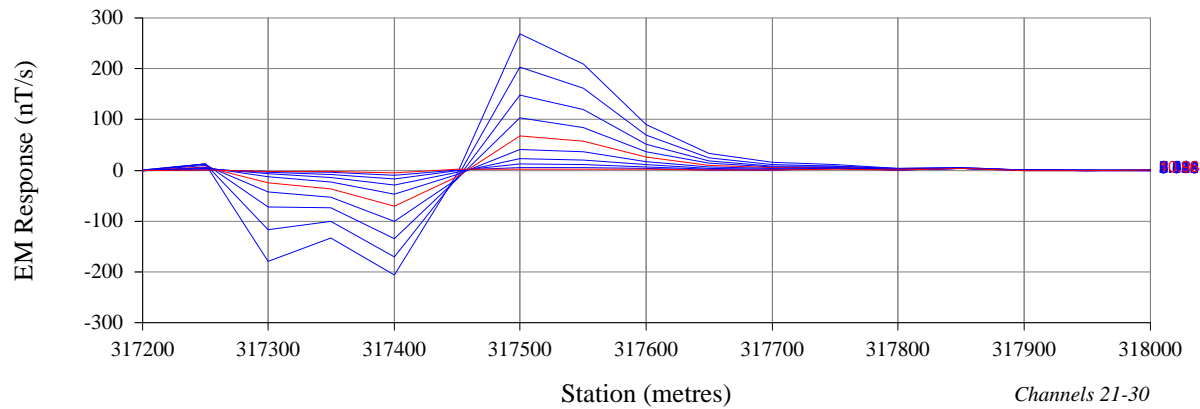
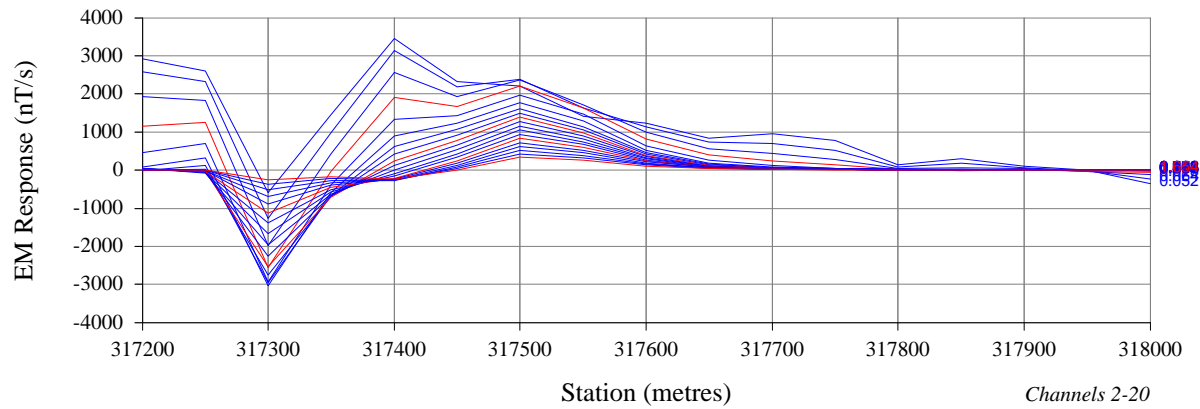
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Job No.: JN 2349

Date: 01-09-2010

Fig No.:#3

X Component



SURVEY PARAMETERS

Configuration : In-Loop
Station Spacing : 50 m

RECEIVER

Receiver : Crone
Frequency : 5
Component : X
Rx Coil : Crone
Rx Area : 4090m2 turn-m

TRANSMITTER

Transmitter : Crone
Loop : Moving
Tx Moment : 40000 turn-m
Tx Current : 17 A
Turn Off : 1.5 ms

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

1 : 1.350	11 : 1.798	21 : 3.500	31 : 14.70
2 : 1.552	12 : 1.862	22 : 3.916	32 : 17.46
3 : 1.564	13 : 1.938	23 : 4.420	33 : 20.84
4 : 1.578	14 : 2.030	24 : 5.028	34 : 24.86
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8 : 1.668	18 : 2.632	28 : 9.014	
9 : 1.704	19 : 2.868	29 : 10.58	
10 : 1.746	20 : 3.154	30 : 12.47	



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Mt Peake**

**In-Loop EM Survey
Linear Profiles - X Component
Line 7599750N**

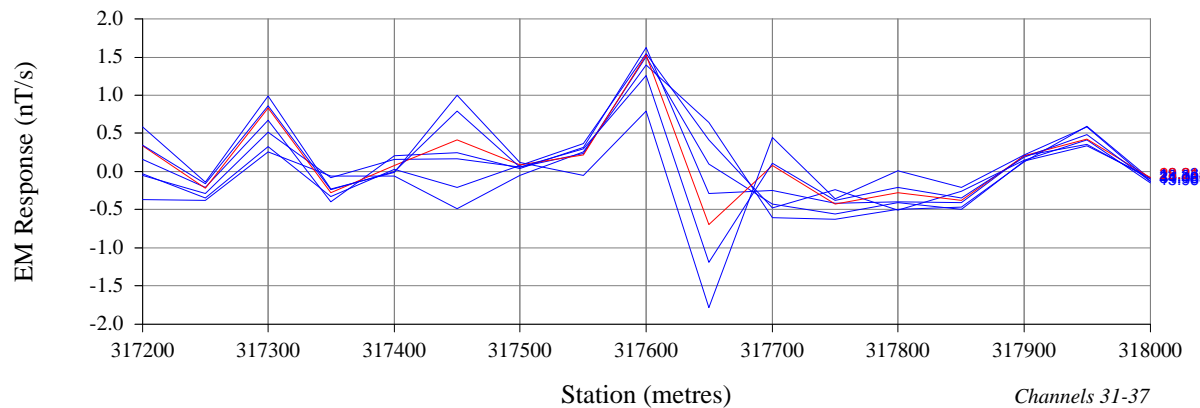
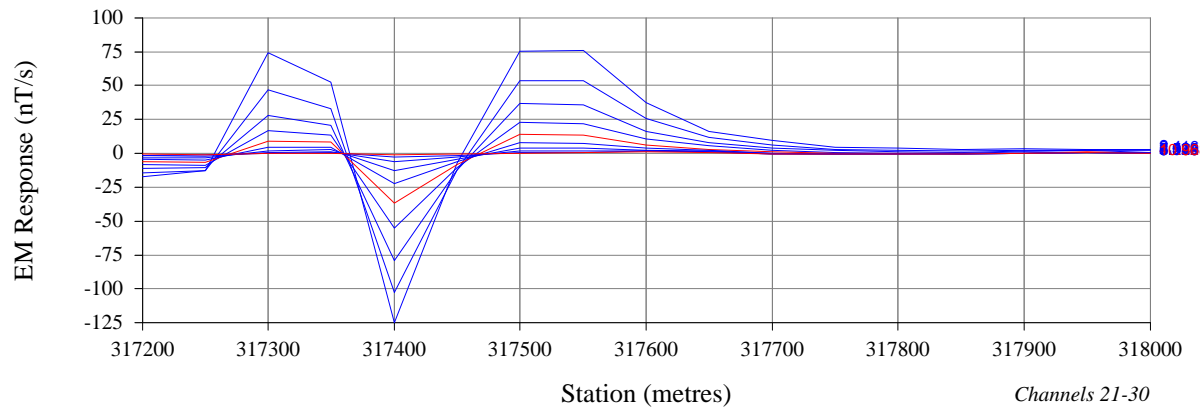
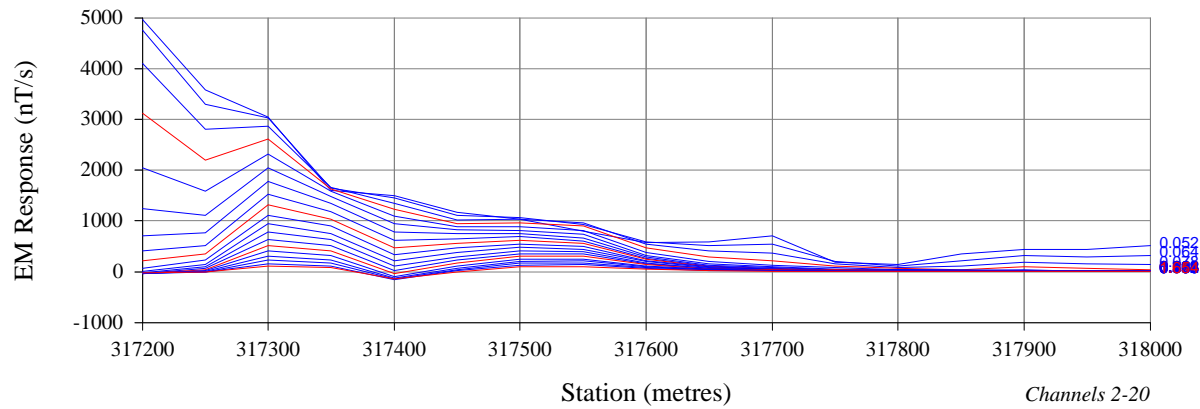
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Job No.: JN 2349

Date: 01-09-2010

Fig No.:#4

Y Component



SURVEY PARAMETERS

Configuration : In-Loop
Station Spacing : 50 m

RECEIVER

Receiver : Crone
Frequency : 5
Component : Y
Rx Coil : Crone
Rx Area : 4090m² turn-m

TRANSMITTER

Transmitter : Crone
Loop : Moving
Tx Moment : 40000 turn-m
Tx Current : 17 A
Turn Off : 1.5 ms

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

1 : 1.350	11 : 1.798	21 : 3.500	31 : 14.70
2 : 1.552	12 : 1.862	22 : 3.916	32 : 17.46
3 : 1.564	13 : 1.938	23 : 4.420	33 : 20.84
4 : 1.578	14 : 2.030	24 : 5.028	34 : 24.86
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TNG Limited
Mt Peake

In-Loop EM Survey
Linear Profiles - Y Component
Line 7599750N

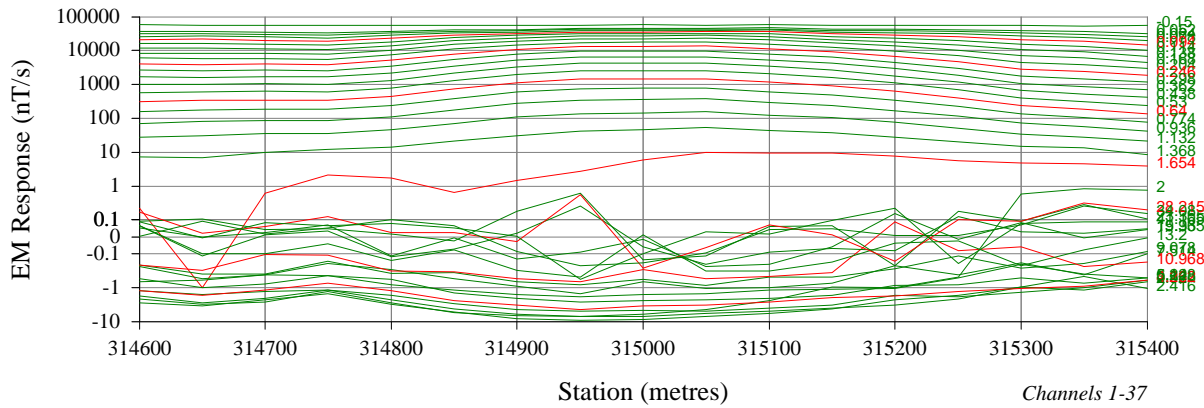
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Job No.: JN 2349

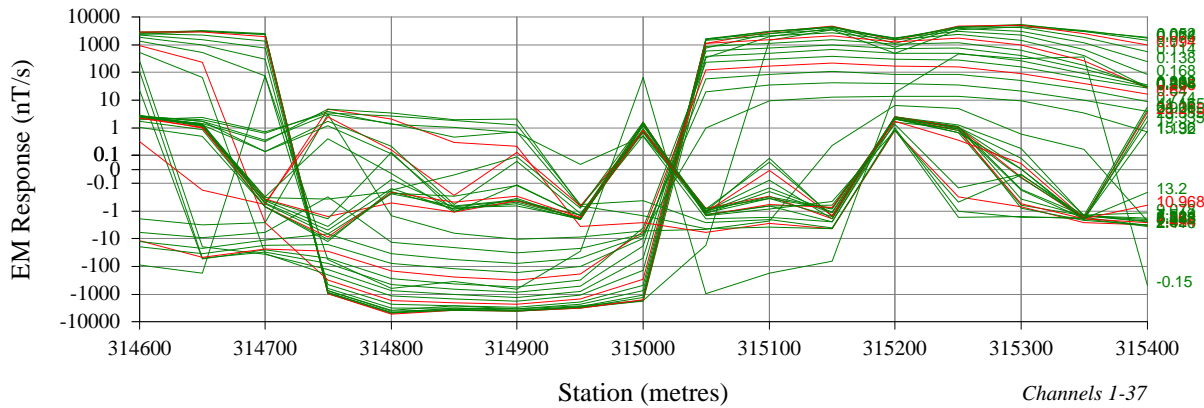
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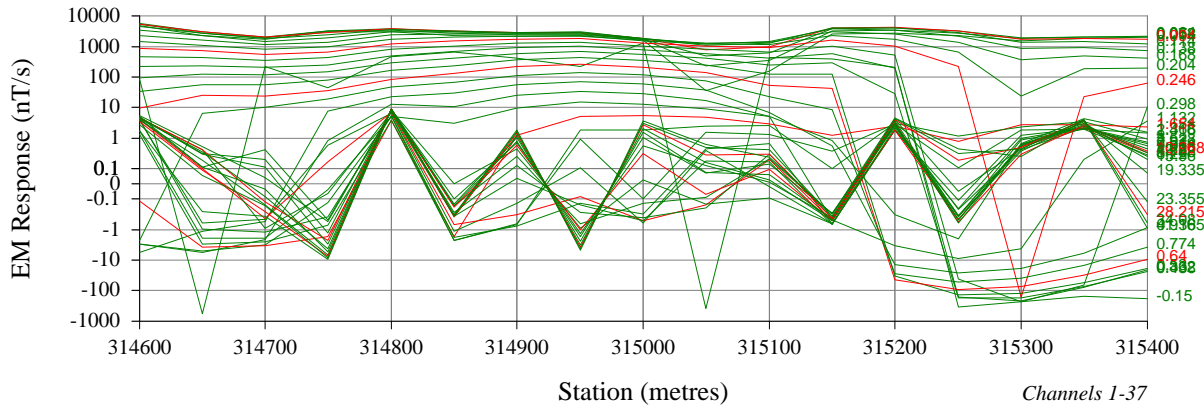
Z Component



X Component



Y Component



SURVEY PARAMETERS

Configuration : In-Loop
 Station Spacing : 50 m

RECEIVER

Receiver : Crone
 Frequency : 5
 Component : Z,X,Y
 Rx Coil : Crone
 Rx Area : 4090m² turn-m

TRANSMITTER

Transmitter : Crone
 Loop : Moving
 Tx Moment : 40000 turn-m
 Tx Current : 16 A
 Turn Off : 1.5 ms

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

1 : 1.350	11 : 1.798	21 : 3.500	31 : 14.70
2 : 1.552	12 : 1.862	22 : 3.916	32 : 17.46
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10 : 1.746	20 : 3.154	30 : 12.47	



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 Services Pty Ltd

TNG Limited
 Mt Peake

In-Loop EM Survey
 Log-Linear Profiles
 Line 7621300N

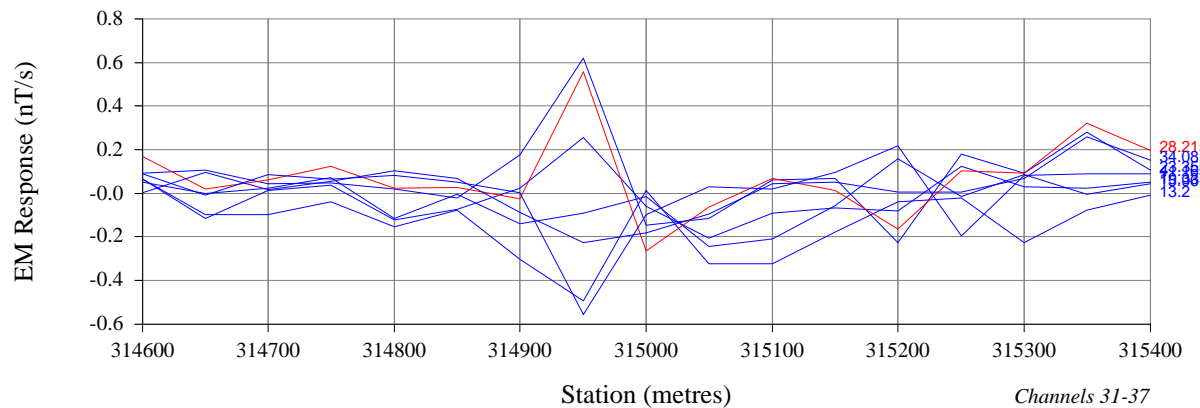
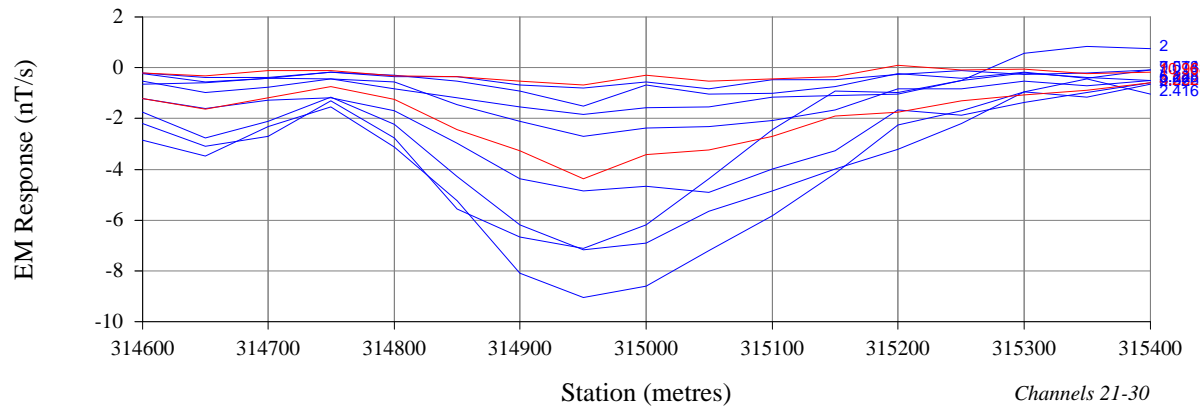
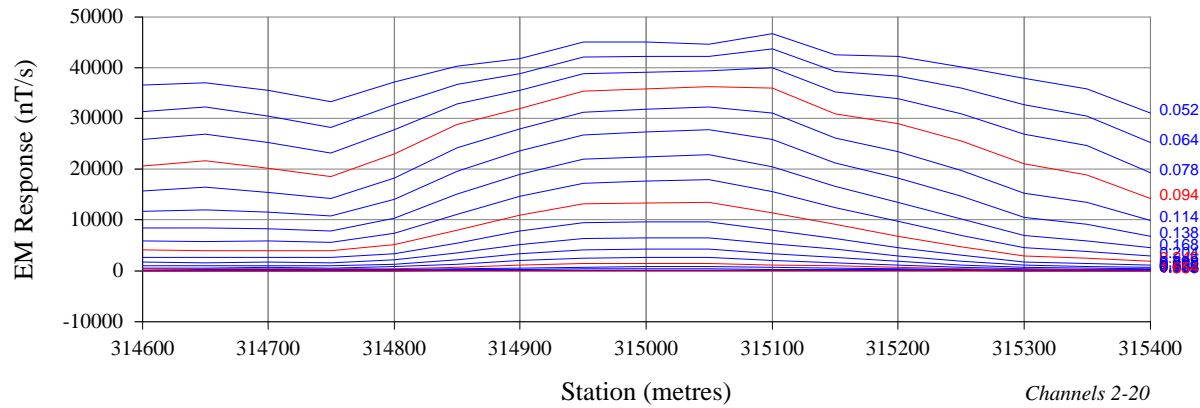
Drawn : DJL

Job No.: JN 2349

Date: 01-09-2010

Fig No.:#6

Z Component



SURVEY PARAMETERS

Configuration : In-Loop
Station Spacing : 50 m

RECEIVER

Receiver : Crone
Frequency : 5
Component : Z
Rx Coil : Crone
Rx Area : 4090m² turn-m

TRANSMITTER

Transmitter : Crone
Loop : Moving
Tx Moment : 40000 turn-m
Tx Current : 16 A
Turn Off : 1.5 ms

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

1 : 1.350	11 : 1.798	21 : 3.500	31 : 14.70
2 : 1.552	12 : 1.862	22 : 3.916	32 : 17.46
3 : 1.564	13 : 1.938	23 : 4.420	33 : 20.84
4 : 1.578	14 : 2.030	24 : 5.028	34 : 24.86
5 : 1.594	15 : 2.140	25 : 5.762	35 : 29.72
6 : 1.614	16 : 2.274	26 : 6.648	36 : 35.58
7 : 1.638	17 : 2.436	27 : 7.720	37 : 42.66
8 : 1.668	18 : 2.632	28 : 9.014	
9 : 1.704	19 : 2.868	29 : 10.58	
10 : 1.746	20 : 3.154	30 : 12.47	



Outer-Rim Exploration
Services Pty Ltd

TNG Limited
Mt Peake

In-Loop EM Survey
Linear Profiles - Z Component
Line 7621300N

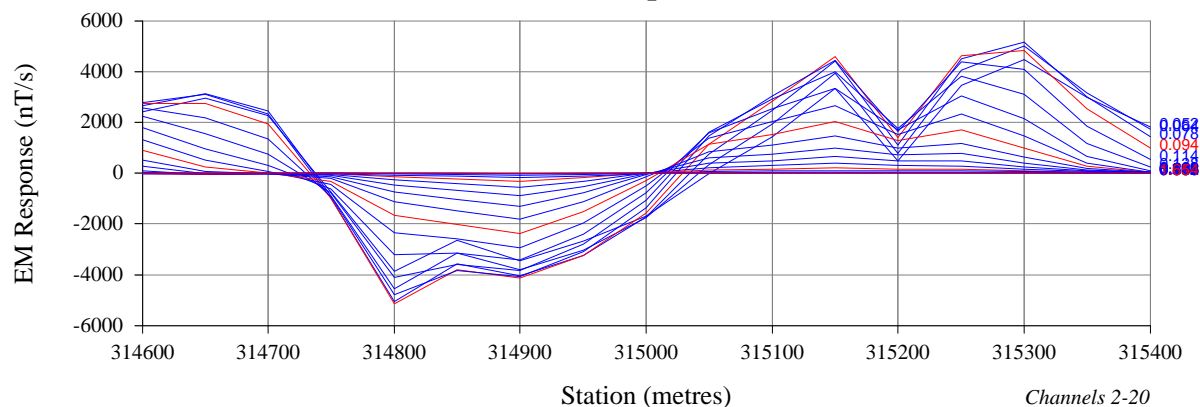
Drawn : DJL

Job No.: JN 2349

Date: 01-09-2010

Fig No.:#7

X Component



SURVEY PARAMETERS

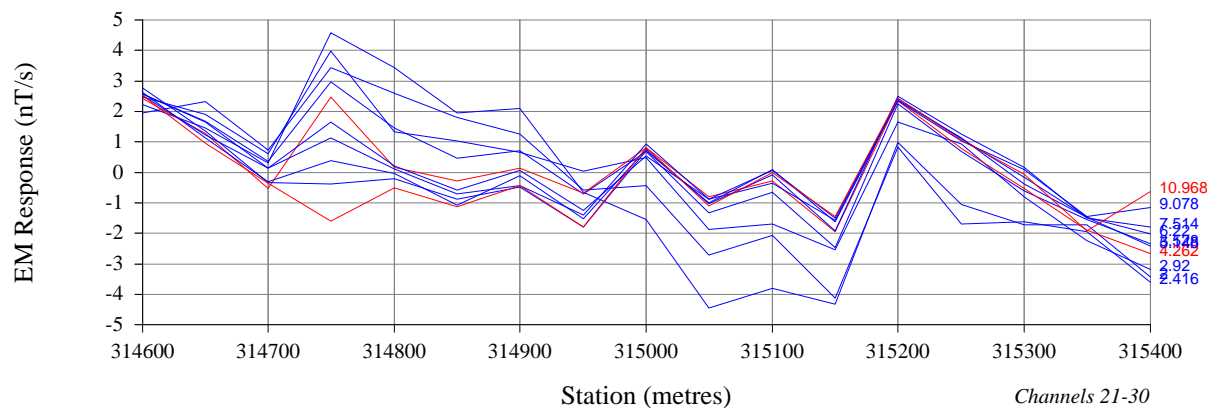
Configuration : In-Loop
Station Spacing : 50 m

RECEIVER

Receiver : Crone
Frequency : 5
Component : X
Rx Coil : Crone
Rx Area : 4090m2 turn-m

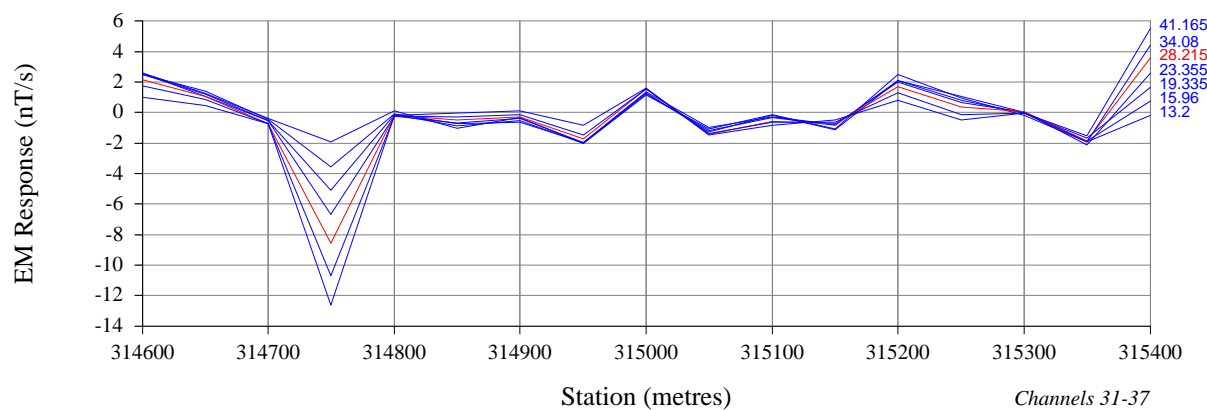
TRANSMITTER

Transmitter : Crone
Loop : Moving
Tx Moment : 40000 turn-m
Tx Current : 16 A
Turn Off : 1.5 ms



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

1 : 1.350	11 : 1.798	21 : 3.500	31 : 14.70
2 : 1.552	12 : 1.862	22 : 3.916	32 : 17.46
3 : 1.564	13 : 1.938	23 : 4.420	33 : 20.84
4 : 1.578	14 : 2.030	24 : 5.028	34 : 24.86
5 : 1.594	15 : 2.140	25 : 5.762	35 : 29.72
6 : 1.614	16 : 2.274	26 : 6.648	36 : 35.58
7 : 1.638	17 : 2.436	27 : 7.720	37 : 42.66
8 : 1.668	18 : 2.632	28 : 9.014	
9 : 1.704	19 : 2.868	29 : 10.58	
10 : 1.746	20 : 3.154	30 : 12.47	



Outer-Rim Exploration
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In-Loop EM Survey
Linear Profiles - X Component
Line 7621300N

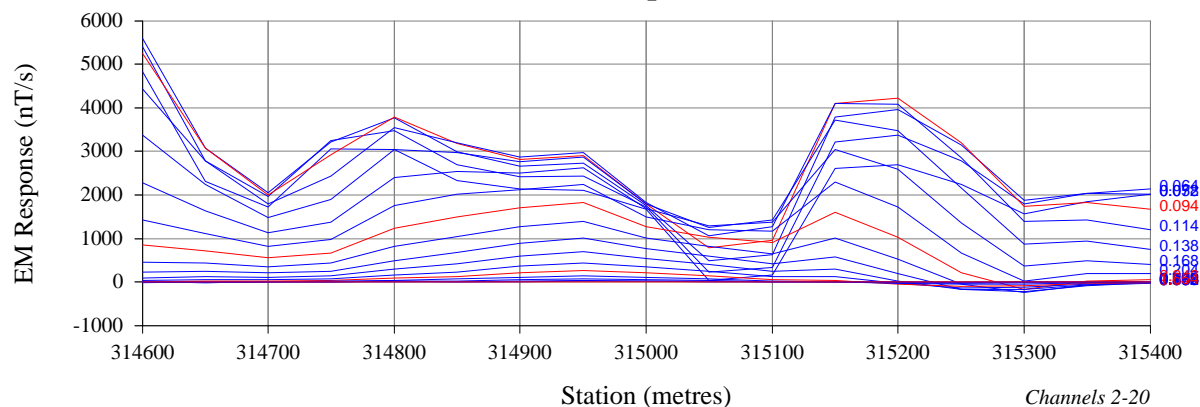
Drawn : DJL

Job No.: JN 2349

Date: 01-09-2010

Fig No.:#8

Y Component



SURVEY PARAMETERS

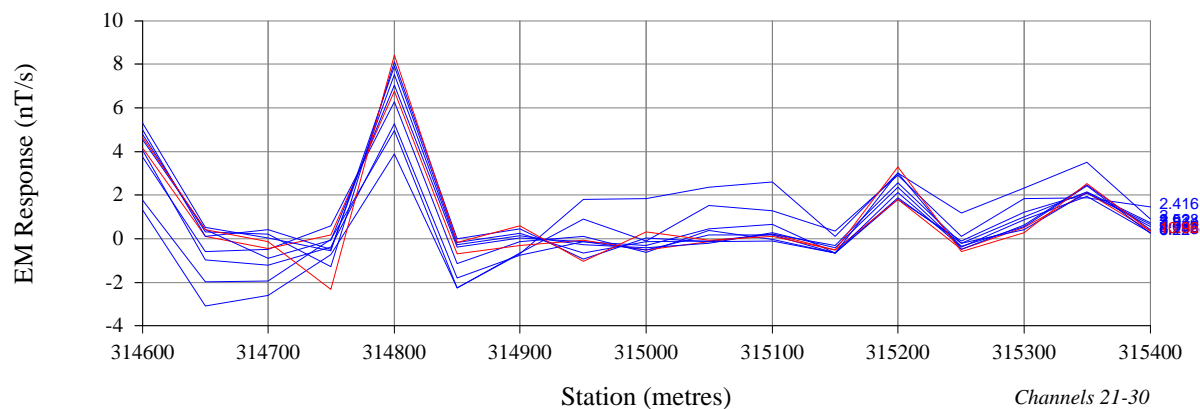
Configuration : In-Loop
Station Spacing : 50 m

RECEIVER

Receiver : Crone
Frequency : 5
Component : Y
Rx Coil : Crone
Rx Area : 4090m2 turn-m

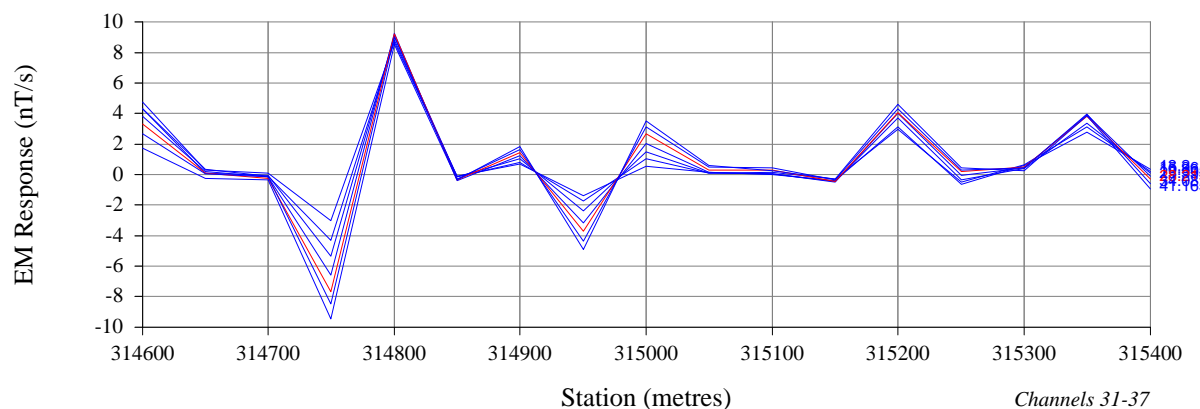
TRANSMITTER

Transmitter : Crone
Loop : Moving
Tx Moment : 40000 turn-m
Tx Current : 16 A
Turn Off : 1.5 ms



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

1 : 1.350	11 : 1.798	21 : 3.500	31 : 14.70
2 : 1.552	12 : 1.862	22 : 3.916	32 : 17.46
3 : 1.564	13 : 1.938	23 : 4.420	33 : 20.84
4 : 1.578	14 : 2.030	24 : 5.028	34 : 24.86
5 : 1.594	15 : 2.140	25 : 5.762	35 : 29.72
6 : 1.614	16 : 2.274	26 : 6.648	36 : 35.58
7 : 1.638	17 : 2.436	27 : 7.720	37 : 42.66
8 : 1.668	18 : 2.632	28 : 9.014	
9 : 1.704	19 : 2.868	29 : 10.58	
10 : 1.746	20 : 3.154	30 : 12.47	



Outer-Rim Exploration
Services Pty Ltd

TNG Limited
Mt Peake

In-Loop EM Survey
Linear Profiles - Y Component
Line 7621300N

Drawn : DJL

Job No.: JN 2349

Date: 01-09-2010

Fig No.:#9