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Quantec Geoscience Ltd.

Geophysical Survey Interpretation Report

2.41138

Regarding the BOREHOLE and SURFACE TRANSIENT ELECTROMAGNETIC SURVEYS
over the
LANGMUIR PROJECT,
near Timmins, ON,
on behalf of
GOLDEN CHALICE RESOURCES INC.
Vancouver, BC

QGL QGL QGL QGL QGL QGL

S.T. Coulson
October, 2007
Project CA00500C

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1. INTRODUCTION

- **QGL Project No:** CA00500C
- **Project Name:** Langmuir Project
- **Survey Period:** May 24th to September 24th, 2007
- **Survey Type**: Surface and Borehole Fixed Loop Transient EM
- **Client:** **GOLDEN CHALICE RESOURCES INC.**
- **Client Address** 711-675 West Hastings St.
  Vancouver BC V6B 1N2
- **Representatives:** John Keating, Peter Caldbick, Kevin Montgomery
- **Objectives:**

  Surface TEM Survey:

  The objective of the surface TEM survey is to outline any conductive targets, as a follow up to airborne EM surveys and determine their depth and strike to facilitate drill targeting.

  Borehole TEM Survey:

  The objective of the borehole TEM survey is to determine the extent of sulphide mineralization intersected in drill holes and the existence of other conductive mineralization up to 50 meters radius of the holes.

- **Survey Type:** Interpretation

2. GENERAL SURVEY DETAILS

2.1 LOCATION

- **Township:** Langmuir
- **Province:** Ontario
- **Country:** Canada
- **Nearest Settlement:** South Porcupine
- **NTS Map Reference #:** 42 A/6

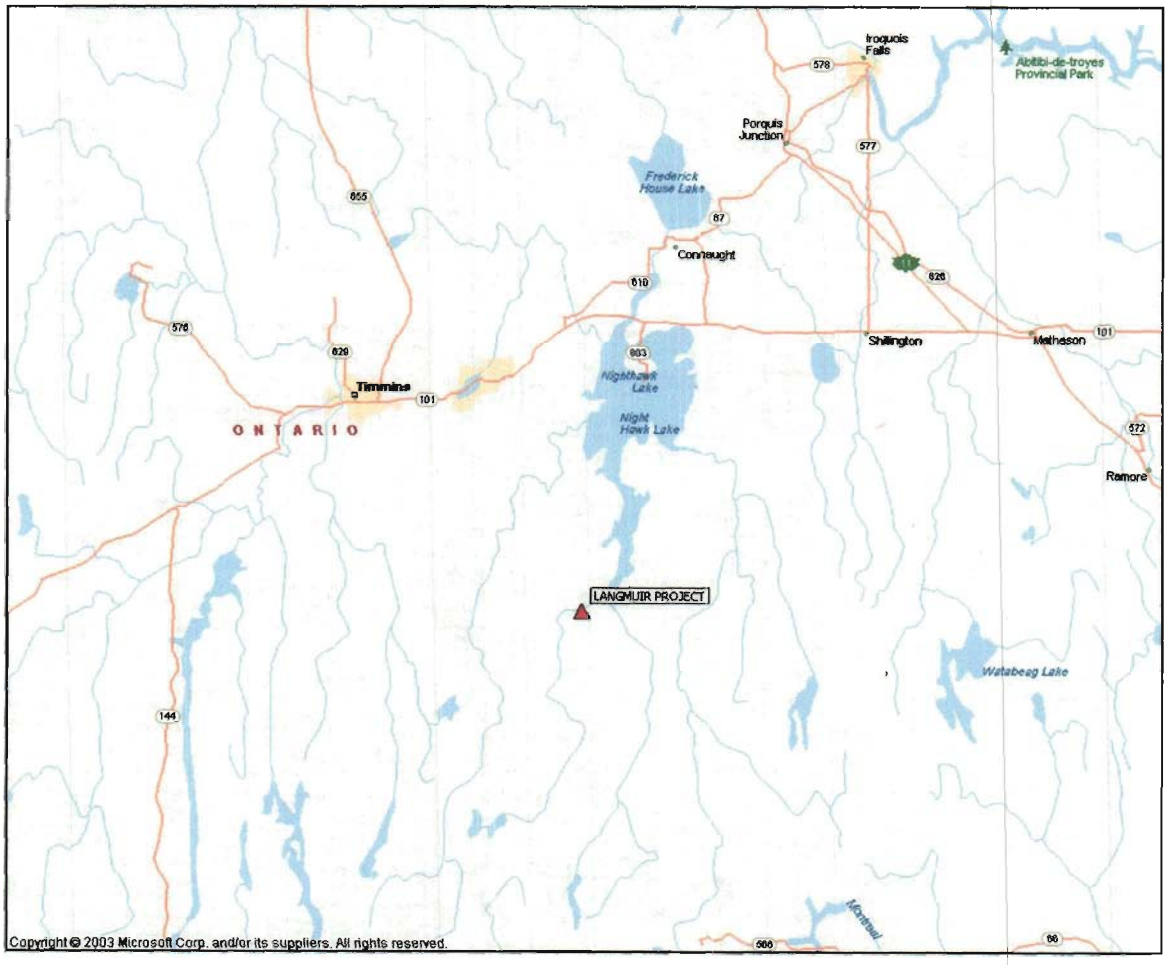


Figure 1: General Location of the Langmuir Project.

2.2 ACCESS

- **Base of Operations:** QGL office, Porcupine, ON
- **Mode of Access:** Truck to drill road then Argo ATV to grid

2.3 SURVEY GRID

- **Coordinate Reference System:** Local exploration grid (UTM Ref. NAD 83)
- **Established:** By Golden Chalice prior to survey execution
- **Line Direction:** 325°
- **Line Separation:** 50 meters
- **Station Interval:** 25 meters
- **Method of Chaining:** Metric, slope distance
- **Claims Surveyed:** 3017518, 4203498, 4202748

3. SURVEY WORK UNDERTAKEN

3.1 GENERALITIES

- **Survey Dates:** May 24th to September 24th, 2007
- **Survey Period:** 27 days
- **Survey Days (read time):** 17 Surface TEM
  10 Borehole TEM
- **Survey Coverage:** Surface TEM – 11.05 km
  Borehole TEM – 3,411 m

3.2 PERSONNEL

- **Project Supervisor:** Woody Coulson, Porcupine, ON
- **Project Managers:** Woody Coulson, Porcupine, ON
  Kevin MacKenzie, Sydney, NS
- **Technicians:** Nick Hnotchuck, Timmins, ON
  Peter Cullinane, Owen Sound, ON
  Jason Heilman, Thunder Bay, ON

3.3 SURVEY SPECIFICATIONS

3.3.1 Surface TEM Surveys

- **Configuration:** In/Off loop profiling
- **Output Power Stage:** Low Power (3.5 kW)
- **Dimension:** 3 Component (X,Y and Z)
- **Loop Sizes and Locations:** 550m x 300m
- **Line Interval:** 50 meters
- **Sampling Interval:** 12.5 meters

3.3.2 Borehole TEM Surveys

- **Configuration:** Borehole Profiling
- **Output Power Stage:** Low Power
- **Dimension:** 3 Component (X,Y and Z)

- **Loop Sizes and Locations:** 200m x 200m, 300m x 550m
- **Sampling Interval:** 5 and 10 meters

3.4 SURVEY COVERAGE

3.4.1 Surface TEM Survey

LINE#	START	END	TOTAL(m)
3+00W	0+00	3+75N	375
2+50W	2+00S	4+00N	600
2+00W	2+00S	3+75N	575
1+50W	2+00S	3+50N	550
1+00W	2+00S	3+50N	550
0+50W	2+50S	3+25N	575
0+00	2+00S	2+50N	450
0+50E	2+00S	3+00N	500
1+00E	2+00S	2+75N	475
1+50E	2+00S	2+00N	400
2+00E	2+00S	1+50N	350
2+50E	0+00	1+25N	125

Table I: Surface TEM Survey Coverage

3.4.2 Borehole TEM Survey

HOLE #	COLLAR (NAD83)	AZIMUTH/DIP	MIN. EXTENT (m)	MAX. EXTENT (m)	TOTAL (m)
GCL07-01	500094E, 5348163N	325° / -55°	10	249	239
GCL07-02	500598E, 5347683N	145° / -55°	Blocked at 150m		
GCL07-03	499025E, 5349193N	325° / -55°	Blocked at 50m		
GCL07-04	498137E, 5349441N	325° / -55°	30	260	230
GCL07-05	497234E, 5349380N	340° / -50°	Blocked at 5m		
GCL07-06	497523E, 5349401N	325° / -55°	10	223	213
GCL07-10	497523E, 5349401N	325° / -45°	10	249	239
GCL07-11	497566E, 5349340N	325° / -45°	15	397	282
GCL07-12	497544E, 5349387N	325° / -45°	15	300	285
GCL07-13	497544E, 5349387N	325° / -60°	15	457	432
GCL07-14	497502E, 5349387N	325° / -45°	15	400	385
GCL07-23	497634E, 5349373N	325° / -45°	15	400	385
GCL07-25	497610E, 5349325N	325° / -50°	25	500	375

Table II: Borehole TEM Survey Coverage

3.5 INSTRUMENTATION

3.5.1 Surface TEM Surveys

- **Receiver:** Geonics Digital Protem 20 or 30 channel capability
- **Coils:** 3D-3 coil (200 m^2 effective area)
- **Transmitter:** Geonics EM-57/67 (3.5 kW output)
- **Power Supply:** Kubota 4500W motor generator

3.6 SURVEY PARAMETERS

3.6.1 Surface TEM Surveys

Pulse repetition frequency:	3Hz and 30Hz
Gain:	1-6
Integration number:	120 sec
Loop Sizes:	300 x 550 meters
Current:	22.0 Amps (see Appendix F)
Turn-off time:	310 us (see Appendix F)
Gate positions	3Hz – 80 – 61360μs (30 channels - see Appendix C) 30Hz – 80 – 6136μs (30 channels - see Appendix C)
Synchronization mode:	Crystal

Table III: System Parameters for Surface TEM Survey

- **Coil Conventions:** (see Appendix C)

COMPONENT	COIL ORIENTATION
Z	Positive Up
X	Positive grid north
Y	Positive grid west

Table IV: Coil Conventions for Surface TEM Survey

- **Measured Parameters:** dB/dt, mV
- **Data Reduction**[1]**:** nanoVolts/Ampere-metre^2 (nV/Am^2)

3.6.2 Borehole TEM Surveys

- **Receiver:** Geonics Digital Protem 20 or 30 channel capability
- **Coil:** Geonics BH43-3D probe (500m cable)
- **Transmitter:** Geonics EM-57/67 (3.5 kW output) with turnoff time regulator
- **Power Supply:** Kubota 4500W Motor Generator

[1] Equivalent to Crone units of nanoTesla/second normalized to a unit current.

Pulse repetition frequency:	30Hz
Gain:	1-6
Integration number:	15 sec
Loop Sizes:	200m x 200m 300m x 550m (holes 23 and 25)
Currents:	12.8 – 22 Amps (see Appendix F)
Turn-off time:	390 – 600µs (see Appendix F)
Gate positions	80-6136µs (see Appendix C)
Synchronization mode:	Crystal

Table V: System Parameters for Borehole TEM Survey

- **Coil Conventions:** (see Appendix C)

COMPONENT	COIL ORIENTATION
Z	Positive Axially Up
X	Positive Orthogonal Up along DDH azimuth (north)
Y	Positive Orthogonal Horizontal and left of DDH axis (west)

Table VI: Coil Conventions for Borehole TEM Survey

- **Measured Parameters:** dB/dt, mV.
- **Data Reduction[2]:** nanoVolts/metre^2 (nV/m^2)

3.7 Measurement Accuracy and Repeatability

- **Number of Repeats per Station:** 0-1
- **Number of Repeats per Day:** 0-3
- **Average Repeatability:** 1-2% in early channels
- **Worst Repeatability:** 3% in early channels

3.8 Data Presentation

- **Profiles:** X,Y,Z components, and Total EM Field @ 1:5000 for Surface and 1:2000 for Borehole with variable vertical (profile) scales to best display data.

[2] Equivalent to Crone units of nanoTesla/second normalized to a unit current.

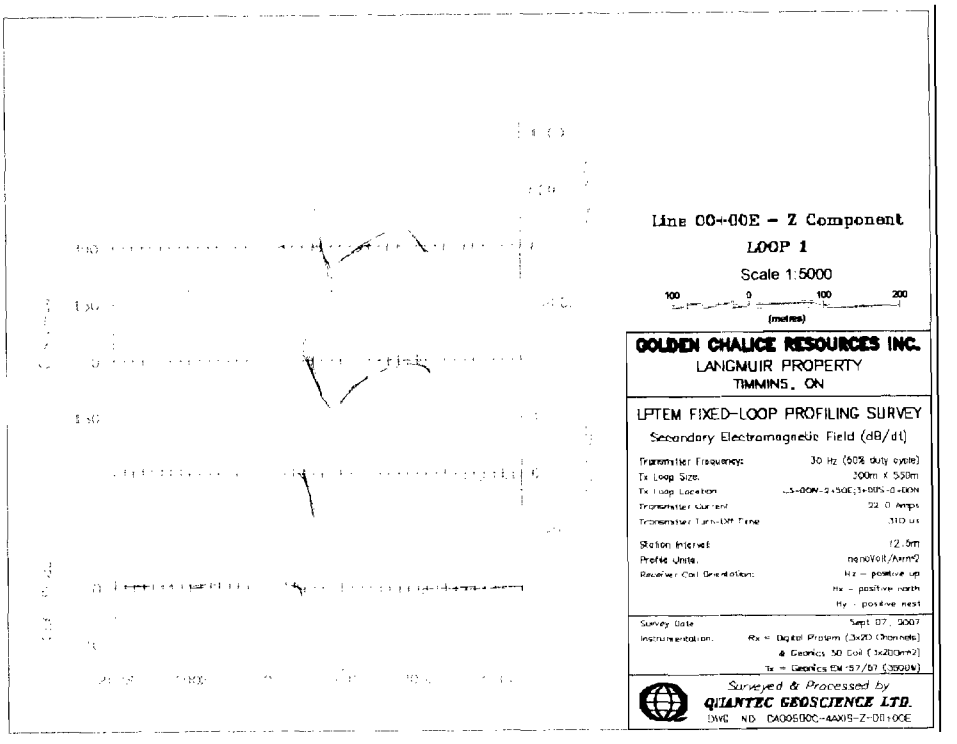


Figure 2: 4-Axis Surface TEM Profile Format

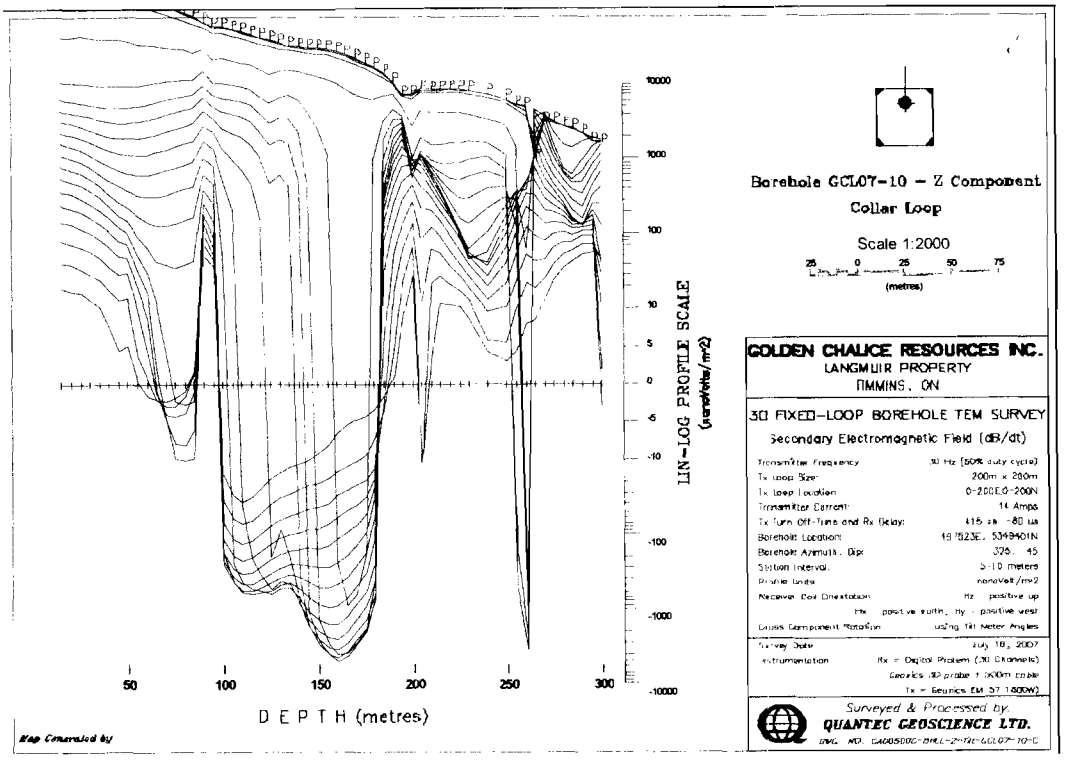


Figure 3: Lin-Log Borehole TEM Profile Format

- **Digital Data:** Daily raw files and processed data (Geosoft .XYZ format) on CD

a) raw data dump files, according to acquisition date, (DDMMYY.RAW) (i.e. 050604.raw). Geonics Digital Protem format (refer to Protem manual)

b) reduced XYZ ASCII data files, according to line/hole number and component (i.e. l1900ek.xyz where, k=component – Z, X, Y or T for Total Field).

Column 1: N-S Line/E-W Station number
Column 2: E-W Station/N-S Line number
Column 3: Primary pulse (nV/m^2)
Column 4: Channel 1 secondary rate of decay of TEM field (nanoVolt/ampere*m^2)
Column 5: Channel 2
⇓
Column 23: Channel 20 secondary rate of decay of TEM field (nanoVolt/ampere*m^2)

4. SURVEY RESULTS

The survey work over the Langmuir property started with Borehole TEM surveys in drill holes GCL07-01, 04 and 06. Holes 02, 03 and 05 were not logged due to blockages in the holes. These holes were all drilled as direct follow-up to airborne EM (VTEM) surveys over specific targets. Subsequent to encouraging mineralization (Ni-Cu) in drill hole 06, additional holes (10 through 25) were drilled in the vicinity of this hole. Only holes 06, 10, 11, 12, 13, 14, 23 and 25 have been logged with Borehole TEM. Later, a 50m by 50m local exploration grid was cut and Surface TEM and IP (not performed by Quantec) surveys were conducted. This report provides an interpretation of the results of the Borehole and Surface TEM surveys only.

Details concerning the bedrock geology and the full extent of exploration on the property are limited by the present author and, as such, this interpretation is based solely on the TEM survey results. Maxwell[3] modeling of the TEM results has been conducted to assist in determining conductor size, depth, dip, orientation and conductivity thickness. These results are presented as 3D models for both the surface and borehole survey results. Due to the complexity of the responses, both from surface and in the drill holes, it is difficult to obtain perfect matches between the field and model data.

4.1.1 Surface TEM Survey

The objective of the Surface TEM survey over the Langmuir Property was to verify conductors on the ground outlined from the airborne TEM (VTEM) surveys as well as provide direction to continued drilling in the immediate vicinity of drill hole GCL07-06. The survey was conducted using the 30hz and 3Hz pulse repetition frequencies to cover both weak and very strong conductors (Po-Ni rich).

The Surface TEM survey was successful in delineating a number of conductors across the survey grid labeled A through D. A line by line interpretation is outlined in the table below and on the interpretation plan map and Maxwell models at the back of the report.

Conductor A:

Conductor A was traced from line 300W at 212N to line 150E at 25N. The responses on lines 150W through 300W diminish from east to west and are interpreted to be off the end of the actual conductor axis. In the east end, the conductor appears to terminate at line 150E. The conductor strikes east-west (grid NW-SE) from line 100W at 125 N to line 0 at 50N where it turns and continues NE (grid E-W) to line 150E at 37N. From modeling, the conductor ranges in depth to the top from 30m on line 100E to 50m on line 50W where it appears to plunge to the west to a depth of approximately 85m on line 150W. The conductor is strongest on lines 50W, 0 and 50E where it dips moderately (62°) to the north with a conductivity thickness of 400 Siemens (40 Siemens * 10m thickness). Conductor A is a high priority geophysical target.

A late time (30 channels) response in the 3Hz data was detected on line 100W at 137N. The Hz and Hy responses are better resolved with little response in the Hx. This response is within the overall response from Conductor however based on the wavelength and late time response, this conductor has a much smaller surface area/depth extent and is within 25m of surface. This may indicate a small but high conductance zone worth further investigation.

Conductor B

Conductor B parallels Conductor A roughly 100m to 150m to grid north. This is a moderate strength conductor (max. 18 channels) traced from line 100W at 275N to line 200E at 125N. It

[3] *Maxwell 4.9.25 Forward/Inverse Modeling, Presentation and Visualization software developed by Electromagnetic Imaging Technology, Australia*

may continue to the east beyond 200E however indications on line 250E suggest it may be terminated. The conductor is well defined in early to mid time however there is a strong influence from Conductor A to the south. Depth to the top of the conductor is consistent in the 30m range. Based on modeling, Conductor B dips steeply north (75°) with a conductivity thickness of approximately 50 Siemens.

Conductor C

Conductor C is short strike length conductor defined on line 150W at 50N. It may continue to the east but the character of the response is different and in general, poorly resolved on lines 200E and 250E. Modeling utilized a 10m thick plate measuring 30m strike length by 70m depth extent, at 20m depth, a steep north dip (75°) and a conductivity thickness of 300 Siemens (30 Siemens * 10m). Even with multiple conductor responses (A and B) on this line, this conductor is still well resolved and is considered a high priority target.

Conductor D

Conductor D is a strong, near surface conductor located in the northwest corner of the grid on line 250W at 337N. Although adjacent responses exist on lines 300W and 200W, the conductor probably ends a short distance east and west of 250W. The conductor was modeled using a vertically dipping, 30m thick plate at a depth of 15m measuring 75m strike length by 50m depth extent. The conductivity thickness is 1200 Siemens (40 Siemens * 30m). This is a high priority target even though it has limited strike extent.

Conductor E

Conductor E is a short strike length conductor detected on lines 50E and 100E at 112N and 100N respectively. The responses are short wavelength, only evident in the 3Hz data and for the most part are not well resolved. The short wavelength indicates the source is near surface (<25m) and small surface area i.e. limited depth extent, but are probably high conductance. Due to the poor resolution this conductor is considered a medium priority target.

LINE	ANOMALY LOCATION	# CHANNELS RESPONDING	QUALITY	DEPTH (m)	COMMENTS
300W	212N	16	Good	?	Conductor D - Little Hz response – may be off west end of conductor.
	237N	10	Weak	?	Weak conductor possibly related to poor mineralization or overburden.
	362N	18	Good	?	Incomplete response.
250W	200N	18	Good	100?	Conductor A - Long wavelength Hz with no crossover. Possible off end response from conductor to east or conductor at depth.
	250N	8	Weak	?	Possible near surface weak conductor.
	337N	25	Very Good	15	Conductor D - Response suggests flat dip – possible wide, limited depth extent conductor.
200W	175N	17	Good	?	Conductor A - Amplitude increasing to east. Possible deep response (100m?) or off end response.
	325N	17	Good	?	Conductor D - Near surface response related to conductor on L250W. Possible off east end of conductor.
150W	150N	20	Good	85?	Conductor A - Well defined late time Hx response – no crossover in Hz. Possible deep or off end response.
	262N	12	Weak	30?	Possible contact mineralization.
100W	125N	20	Good	78	Conductor A - Well defined Hx but no Hz crossover.
	137N	30	Very Good	20?	Short wavelength response evident at 3Hz – possible high conductance zone above conductor at 125N.
	275N	17	Moderate	30	Conductor B – Well defined early time response
	312N	16	Questionable	?	Possible near surface conductor.

50W	87N	28	Good	50	Conductor A - Well defined Hx and Hz responses. North dip.
	137N		Questionable	?	Short wavelength response on 3Hz.
	250N	12	Weak to Moderate	30	Conductor B - Well defined mid time response.
0	50N	28	Very Good	45	Conductor A - High amplitude Hx – probable conductor centre. Probable north dip.
	225N	16	Moderate to Good	30	Conductor B - Well defined mid time response. Strong influence from conductor to south.
50E	37N	28	Very Good	45	Conductor A - High amplitude Hx. Probable north dip.
	112N	25	Good	?	Conductor E - Short wavelength response on 3Hz.
	175N	16	Moderate to Good	30	Conductor B - Well defined mid time response. Strong influence from conductor to south.
100E	37N	20	Very Good	30	Conductor A - High amplitude Hx. Probable north dip.
	100N	22	Good	?	Conductor E - Short wavelength response on 3Hz.
	137N	13	Moderate	30	Conductor B - Well defined mid time response. Strong influence from conductor to south.
150E	25N	18	Moderate	30	Conductor A - Conductor weakening to east.
	75N	22	Good	20	Conductor C - Late time response only suggests possible high conductance zone.
	137N	18	Moderate to Good	30	Conductor B - Well defined mid time response. High amplitude early to mid times.
200E	62N	19	Moderate to Good	?	Long wavelength, late time response. May be related to conductor at 75N on L150E.
	125N	14	Moderate	30	Well defined mid time response.
250E	75N	20	Moderate	?	Conductor C - Incomplete response. Possibly off east end of conductor.

Table VII: Anomaly Table for Surface TEM Surveys

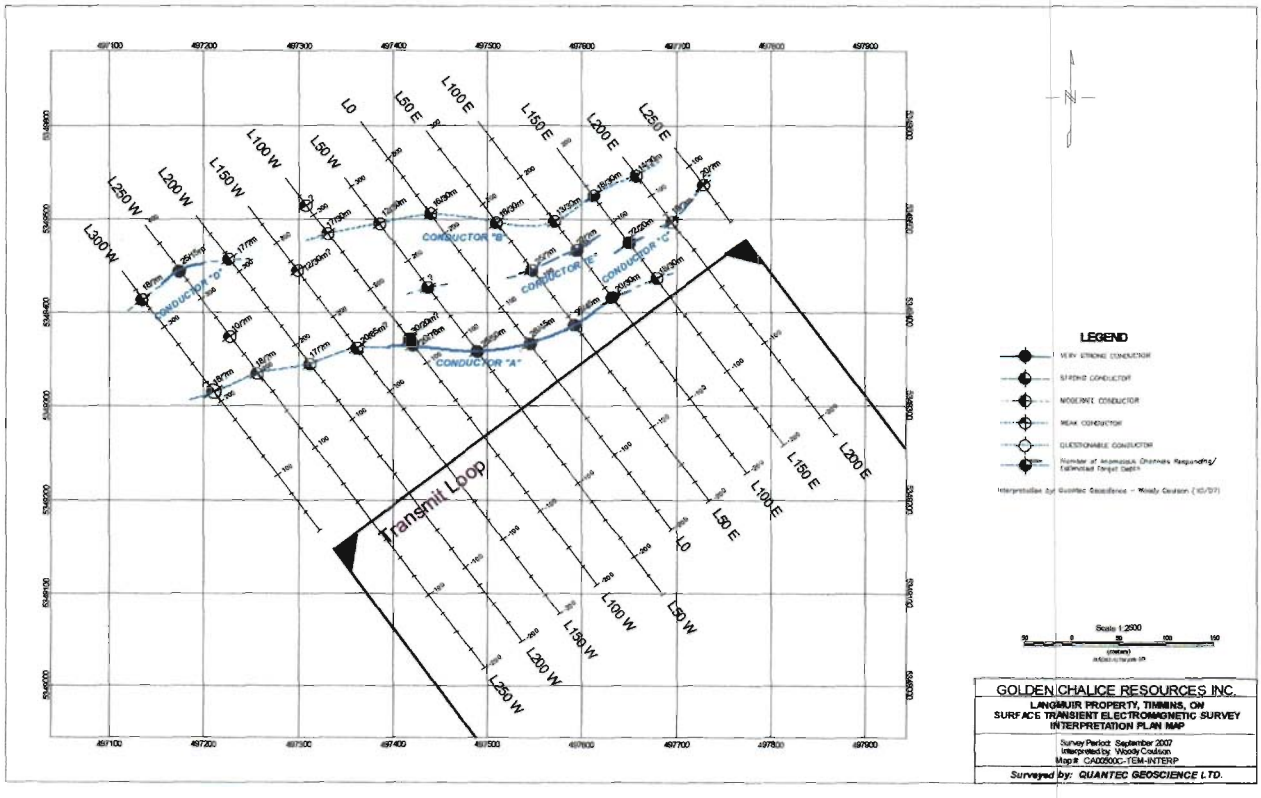


Figure 4: Surface TEM Interpretation Plan Map

4.1.2 Borehole TEM Survey

The objective of the Borehole TEM survey was to determine the quality and extent of mineralization tested in the drill holes and to determine if conductors exist off the hole within a 50m to 100m radius.

Hole GCL07-01

Hole GCL07-01 was logged from a single 200m by 200m transmit loop. The TEM log of identified both in-hole and off-hole conductors which are highlighted in the table below. The sources of these responses have been interpreted from Maxwell modeling (Fig. 5 below) due to their complexity. The upper off-hole conductor at 75m is interpreted to dip sub-vertical, strike ESE and lie approximately 20m right (northeast) and centred up and down dip of the hole. This conductor is untested.

The off-hole conductor at 140m is interpreted as a moderate area, strong conductor located approximately 20m above (up dip) the hole, striking roughly east–west and dipping to the south. This conductor is untested.

The edge of the conductor at 175m appears to have been tested at this depth however the bulk of the conductor still lies off the hole. This conductor appears to sub-parallel the hole, dipping approximately 65° to the northwest. The centre is interpreted to lie approximately 25m above (up dip) the hole. The lack of a stronger response from this conductor may be in part be due to the weaker nature compared to the other conductors and possibly the poorer coupling with the primary field due the orientation of the conductor. A review of the drill core near 175m may provide evidence of the nature of this conductor.

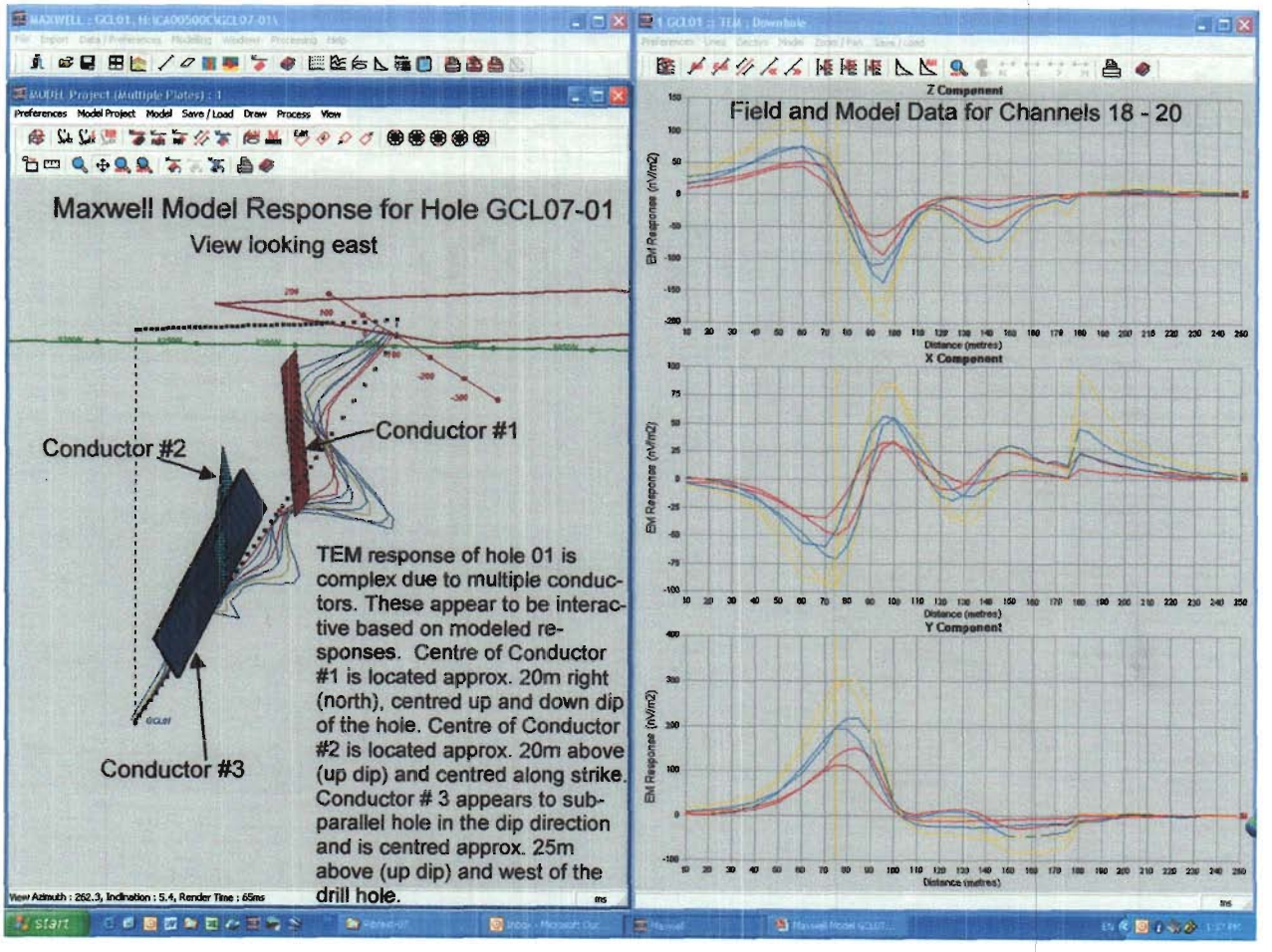


Figure 5: Maxwell Model Response for Hole GCL07-01

Hole GCL07-04

Hole GCL07-04 was logged from a single 200m by 200m transmit loop. The results of the TEM log indicate the presence of a conductor located off the hole at 165m depth (Fig. 6 below). The nature of the response suggests the hole is sub-paralleling a strong conductor from approximately 120m to 185m down the hole. From modeling the conductor centre is located approximately 10m – 15m below (down dip) and 10m -15m left (southwest) of the drill hole.

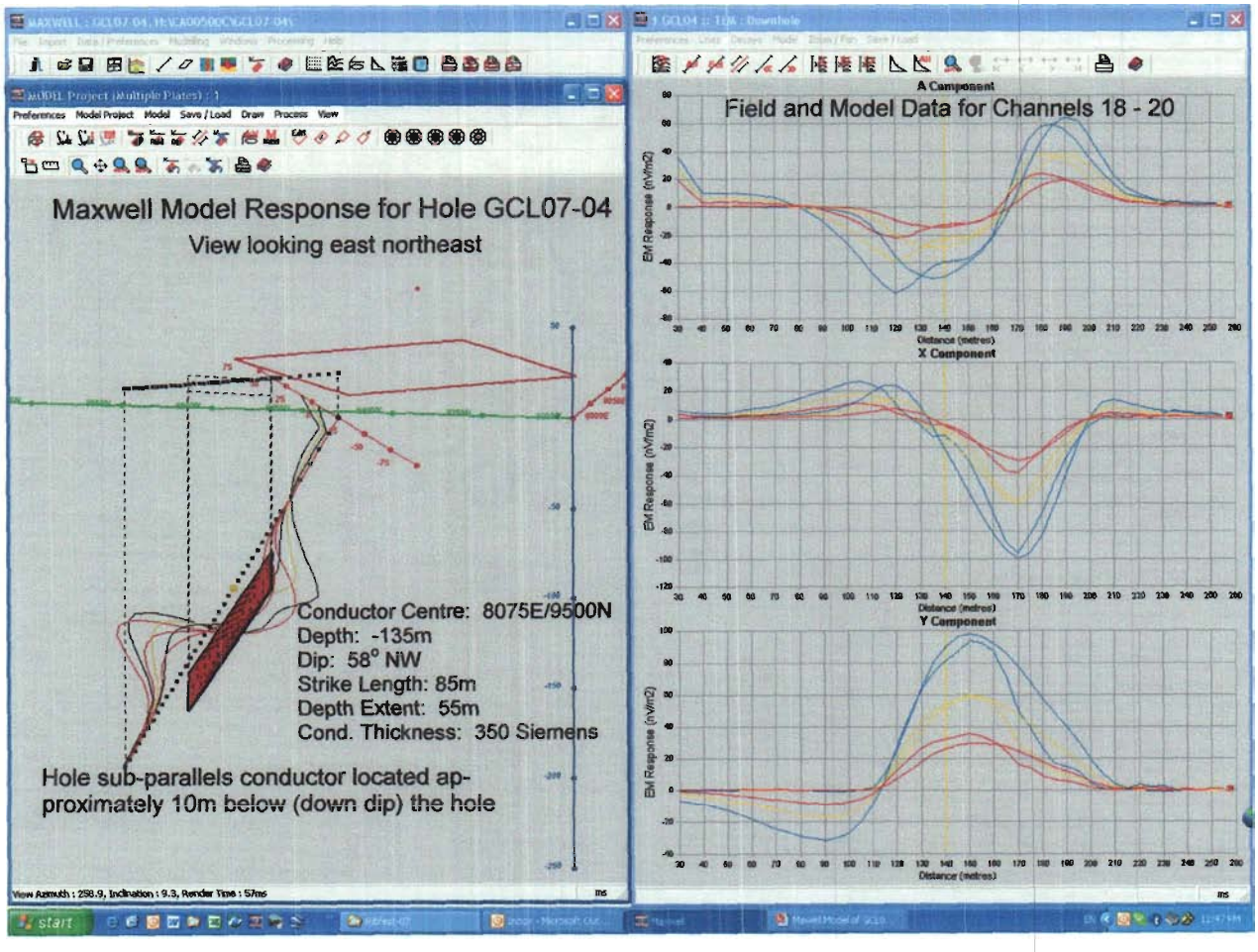


Figure 6: Maxwell Model Response for Hole GCL07-04

Hole GCL07-06

Hole GCL07-06 was logged from a single 200m by 200m transmit. The TEM response in the hole indicates both off-hole and in-hole conductors. The main off-hole conductor occurs at 70m down the hole. The nature of the response indicates the conductor is sub-parallel and behind (south or down dip) the hole, centred near 70m. The up and down dip extents are 30m and 115m respectively. From modeling, the conductor extends east and west of the hole some 50 – 100 meters in both directions. The conductor dips moderately (62°) to the north and strikes roughly east-west. This conductor is interpreted as Conductor A from the surface TEM survey.

The next off-hole conductor is located at 110m in the hole. This source is modeled as a moderate area, strong (500 Siemens) conductor located within 20m – 25m above (up dip) and right (NE) of the hole. The centre of the conductor is located approximately 62m vertically below line 0, 200N (local grid coordinates) and dips sub-vertically.

Two (2) in-hole responses were detected at 150m and 160m down the hole. Both correspond to sulphides intersected in the drill hole. Modeling indicates both are high conductance bodies (1000 Siemens) but small area (10m by 20m) and are probably related or the same unit i.e. thick conductor. Any improvement in these conductors lies above (up dip) and right (NE) of the hole.

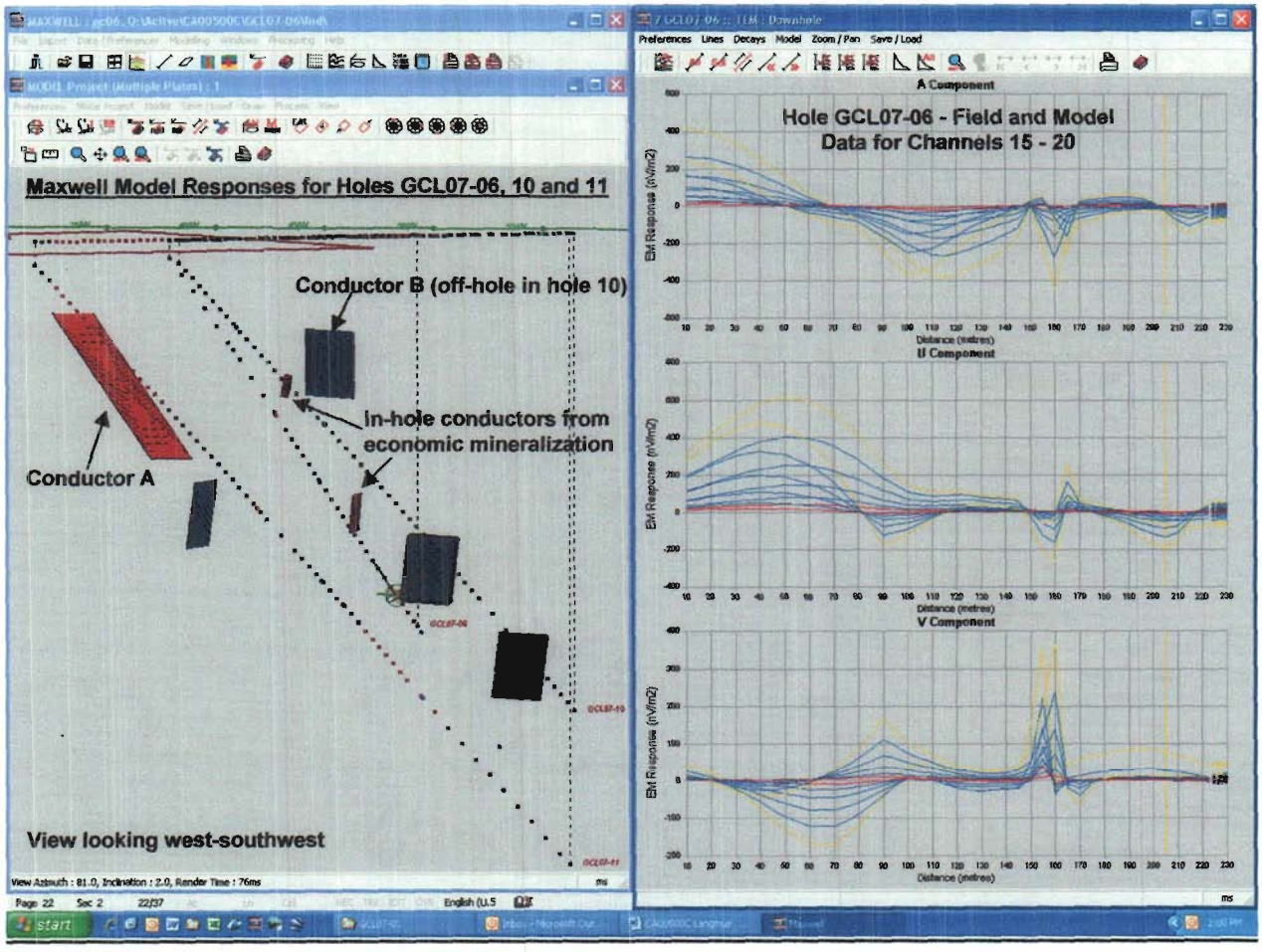


Figure 7: Maxwell Model Response for Hole GCL07-06

Hole GCL07-10

Hole GCL07-10 was logged from the same 200m by 200m loop as drill hole 06. It is also located at the same location as hole 06 but drilled at -45° vs -55° for hole 06. A blockage at 300m restricted logging past this point. The results of the TEM survey outlined numerous conductors in the hole. In-hole conductors were defined at 90m, 135m, 200m and 260m. Off-hole conductors were defined at 70m, 110m and 160m. A building response at the end of the hole (300m) suggests a possible conductor beyond the logged portion of the hole. A graphite unit noted in the geologic log may be the source of this building response.

The off-hole response at 70m is interpreted as the same conductor detected in hole 06 at 70 i.e. the hole is sub-paralleling a large area, strong conductor located behind (south or down dip) the hole. As in hole 06 this is interpreted as Conductor A identified in the surface TEM survey.

The off-hole conductor at 110m is interpreted as the same conductor identified in hole 06 at 115m. The conductor is still located above (up dip) and right (NE) of the drill hole, abeit closer, within 10m -15m. The centre of the conductor is located approximately 62m vertically below line 0, 200N (local grid coordinates) and dips sub-vertically.

The off-hole conductor at 160m is characterized by a moderate strength (15 channels) re-

sponse. The source is interpreted to lie approximately 25m above (up dip) and right (NE) of the drill hole. This may be the source of Conductor B outlined in the surface survey.

The in-hole response at 90m corresponds to sulphides tested in the hole. This is a short wavelength, high amplitude response indicating the conductor is limited in size (10m x 10m) but high conductance (1000 Siemens). The conductor is expected to continue up and down dip and along strike in both directions for a limited distance.

The in-hole conductor at 200m indicates the hole has tested a moderate area (50m x 30m), strong (500 Siemens) conductor which corresponds to a graphitic unit in the geologic log. Any improvement or continuation of this conductor will be below (down dip) and left (SW) of the hole.

The in-hole conductor at 260m indicates the hole has tested the centre region of a moderate area (50m x 30m) strong (300 Siemens) conductor which corresponds to a graphitic unit in the geologic log. Any improvement or continuation of this conductor will be below (down dip) the hole.

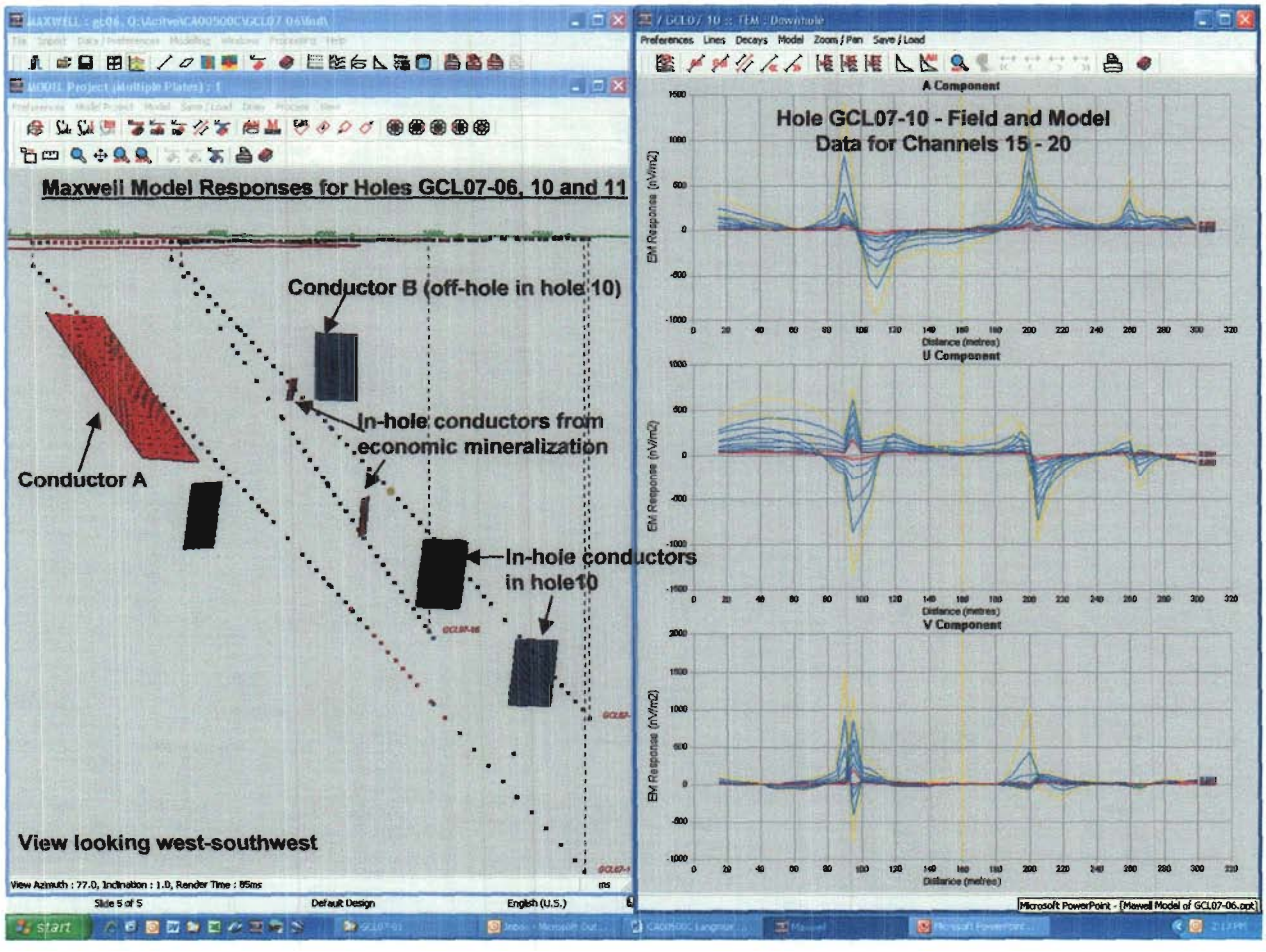


Figure 8: Maxwell Model Response for Hole GCL07-10

Hole GCL07-11

Hole GCL07-11 was logged from the same 200m by 200m loop as hole 06 and 10. It is located approximately 75m grid south of holes 06 and 10 and drilled at -45°. The results of the

TEM survey outlined in-hole conductors at 45m, 65m and 245m and off-hole conductors at 95m and 140m. The in-hole conductors at 45m and 65m are probably the same conductor source, that being the upper edge of Conductor A outlined in the surface survey and detected as an off-hole conductor in holes 06 and 10 at 70m. This conductor corresponds to predominantly graphitic mineralization noted in the geologic log between 35m and 65m down the hole. The off-hole conductor at 95m is interpreted as the proposed centre of this conductor which continues to approximately 135m down hole.

The off-hole conductor detected at 140m is difficult to model due to the influence from the large conductor (Conductor A) above. However, this could reflect the lower edge of Conductor A or a separate smaller conductor. The source of this conductor is interpreted to be located below (down dip) and left (SW) of the hole, possibly 20m away.

The in-hole conductor at 245m corresponds to graphite unit noted in the geologic log. This is interpreted as a small surface area, moderate strength (16 channels) conductor. Any improvement will be located above (up dip) and left (SW) of the drill hole.

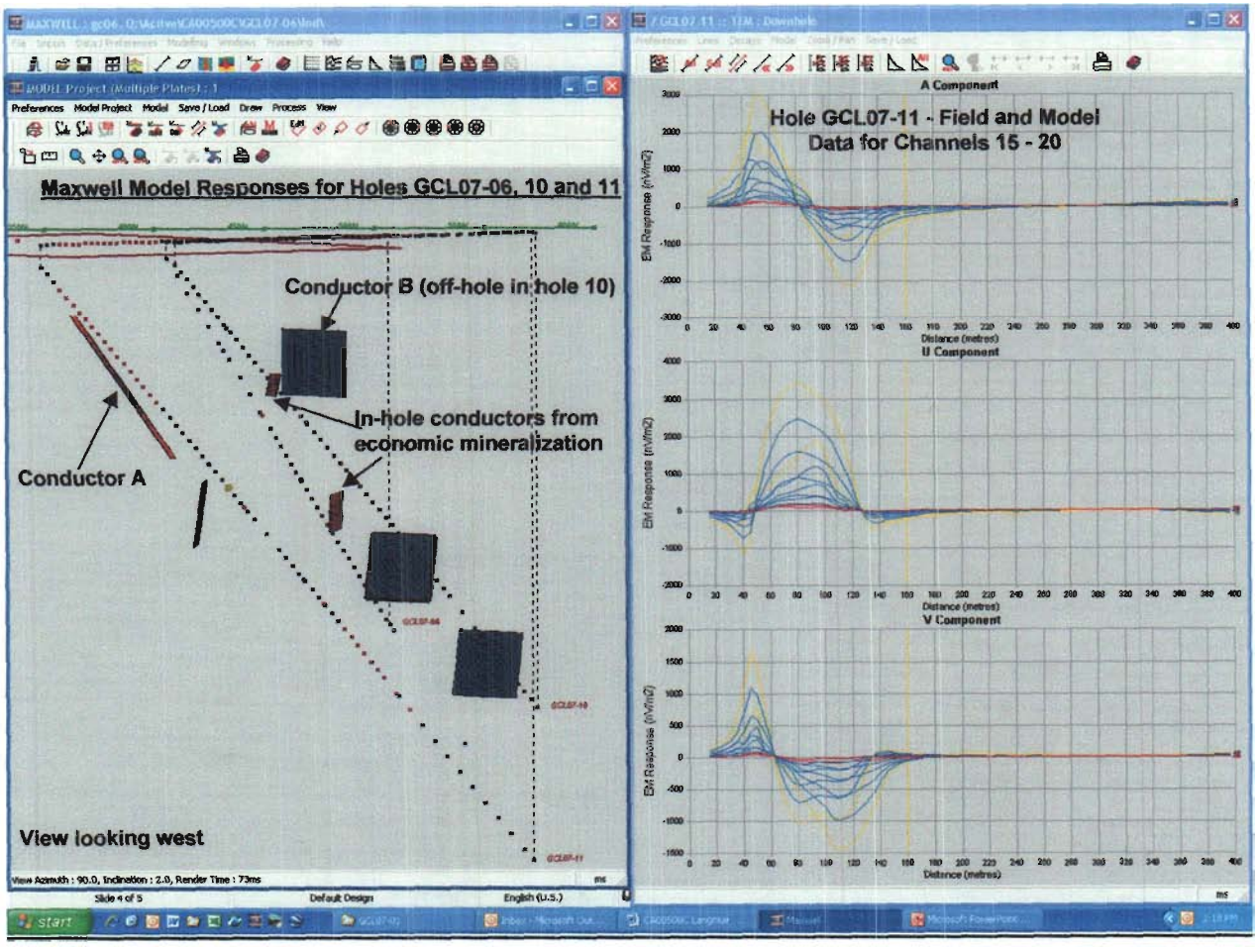


Figure 9: Maxwell Model Response for Hole GCL07-10

Hole GCL07-12

Hole GCL07-12 was logged from the same 200m by 200m loop as holes 06, 10 and 11. Holes 12 and 13 are drilled from the same location however the dip of hole 12 is -45° and hole 13 is -60°. The hole has tested the edge of conductors at 45m and 95m. The conductor at 45m is interpreted as a small surface, strong conductor which corresponds to graphite noted in the geologic log. Any improvement in this conductor will lie above (up dip) and right (NE) of the hole. This conductor may be the source of a conductor detected in the surface survey on line 50E at 112N.

The conductor at 95m is similar i.e. small area, high conductance, and corresponds to graphite and sulphides in the geologic log. Any improvement in this conductor lies predominantly left (SW) of the hole.

A crossover in the Hz component at 130m suggests a possible off-hole conductor. This is interpreted as the response from Conductor A from the surface survey also detected in holes 06 and 10 to the west. Due to the strong edge responses at 45m and 95m the true location of the crossover has probably been shifted down the hole only making it appear there is significant change in the response. Therefore, the Hz negative peak at 150m still indicates the lower edge of the conductor which sub-parallels the hole to the south.

A rapidly changing response in all the three (3) components at the bottom of the hole suggests a possible conductor beyond the end of the hole.

Hole GCL07-13

As mentioned above, hole 13 is drilled at the same location as hole 12 but a -60° dip. The TEM log outlined and edge conductor at 125m and off-hole conductors at 45m, 90m and 205m. The edge conductor at 125m is interpreted as the same conductor outlined at 95m in hole 12. Any improvement will be above (up dip) and left (SW) of the hole.

The off-hole conductor at 45m is interpreted as in-hole conductor at 45m in hole 12 indicating this conductor has limited depth extent (max. 40m -45m vertically). The conductor lies above (up dip) and right (NE) of the hole within 10m – 15m.

The off-hole conductor at 90m is interpreted as Conductor A located behind the hole and indentified in holes 06, 10, and 12.

The off-hole conductor at 205m is characterized by a mid time (16 channels) response. The source is interpreted to line approximately 30m above (up dip) and right (NE) of the hole. The fact that there is no response in hole 12 above, suggests this conductor may be limited in size i.e. both holes have straddled the conductor.

Hole GCL07-14

Hole GCL07-14 was logged from the same 200m by 200m as for holes 06, 10, 11, 12 and 13. The TEM log identified an off-hole conductor at 65m and in-hole or edge responses at 230m , 290m and 380m. The off-hole conductor at 65m is interpreted as Conductor A from the surface survey located approximately 30m – 40m behind (southeast) the hole and dipping to the north.

The in-hole conductor at 230m is a weak (5 channels), small surface area conductor which corresponds to sulphides noted in the geologic log. Any improvement lies below (down dip) the hole. This may be the down dip source of Conductor B identified in the surface survey.

The response at 290 indicates the hole has tested the edge of a small surface area, moderate strength conductor. The lack of definitive response in the cross components makes it difficult to define a direction of improvement. The conductor also corresponds to sulphides noted in the geologic log.

The edge response at 380m indicates the hole has tested the upper edge of a small surface area, strong conductor. Any improvement lies below (down dip) and right (NE) of the hole. This conductor corresponds to graphite noted in the geologic log.

Hole GCL07-23

Hole GCL07-23 was logged from the surface TEM loop. The TEM log has indentified off-hole and in-hole conductors. The off-hole conductor at 100m -115m (Hz crossover) is interpreted as Conductor A from the surface survey. Even though the hole has past over the conductor, as have the other holes (06, 10, 14), the polarity of the response is opposite i.e. Hz negative to positive vs. positive to negative. This is due to the location of the hole relative to the eastern edge of the conductor. This is verified by the strong positive Hy response. Therefore the centre of the conductor is located grid west and below /behind (down dip) the hole.

The in-hole response at 265m indicates the hole has tested a small area moderate strength conductor, however there is no significant mineralization noted in the geologic log. A geologic unit from 252m to 282m mentions graphite in the log may explain this elevated response.

In-hole responses at 305m and 325m correspond to graphite noted in the geologic log. Any improvement in both these conductors occurs below (down dip) and left (SW) of the hole.

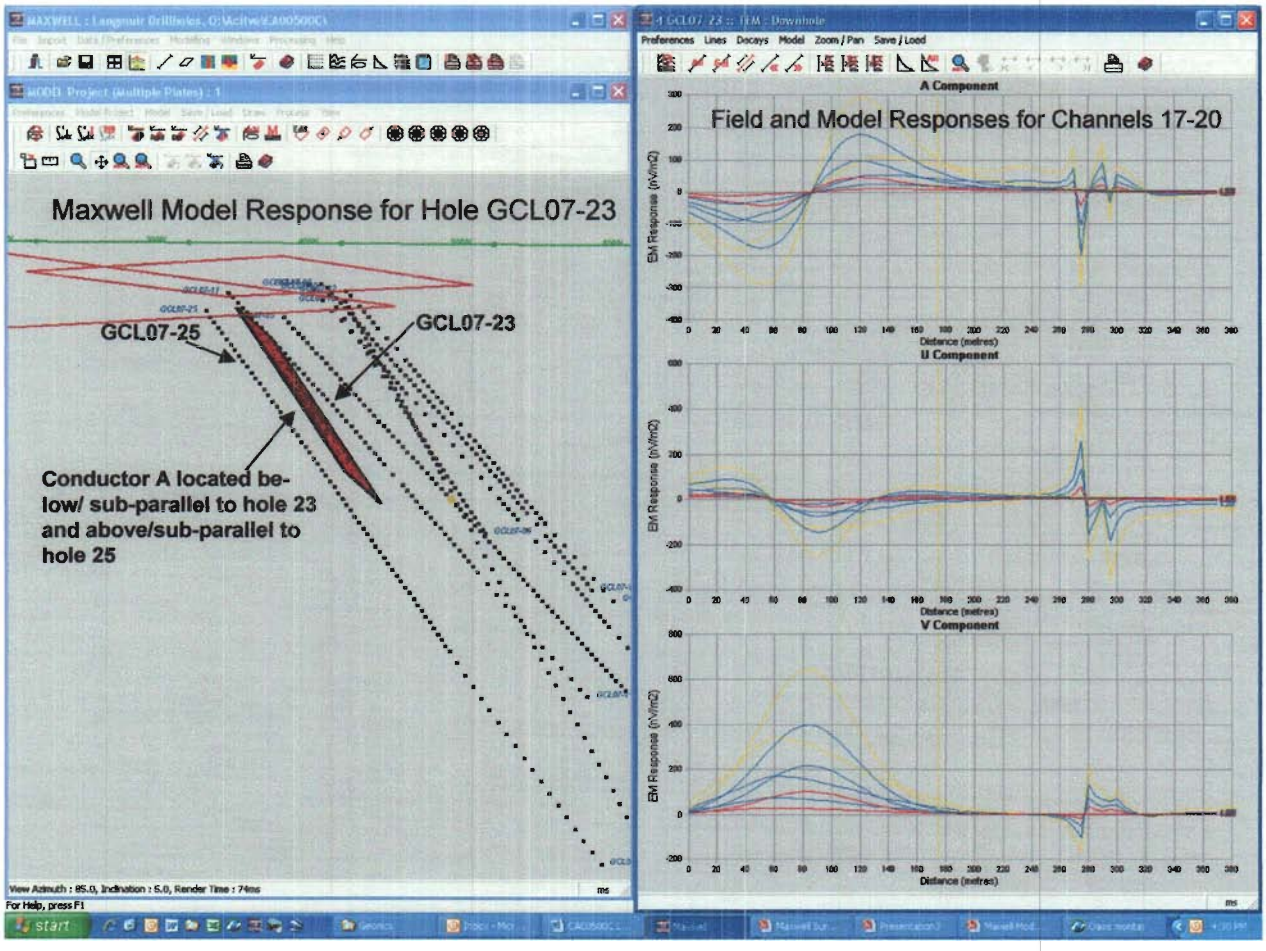


Figure 10: Maxwell Model Response for Hole GCL07-23

Hole GCL07-25

Hole GCL07-25 was also logged from the surface TEM loop. The TEM log has indentified off-hole and in-hole conductors. The off-hole conductor at 125 defines Conductor A from the surface survey. The hole has passed beneath (located up dip) the conductor and sub-parallels it to approximately 165m depth where it is interpreted to end.

The response at 210m indicates the hole has tested the centre region of a moderate to large area conductor. Any improvement in this conductor will be above (up dip) and right (NE) of the hole. This conductor corresponds to graphite and sulphides noted in the geologic log.

The edge response at 285m indicates the hole has tested the eastern edge of a strong, moderate area conductor. Any improvement lies left (SW) of the hole. This conductor corresponds to graphite noted in the geologic log.

An off-hole response at 480m indicates the hole has passed above a small to moderate area conductor. The centre is interpreted to lie approximately 15m below (down dip) and right (NE) of the hole.

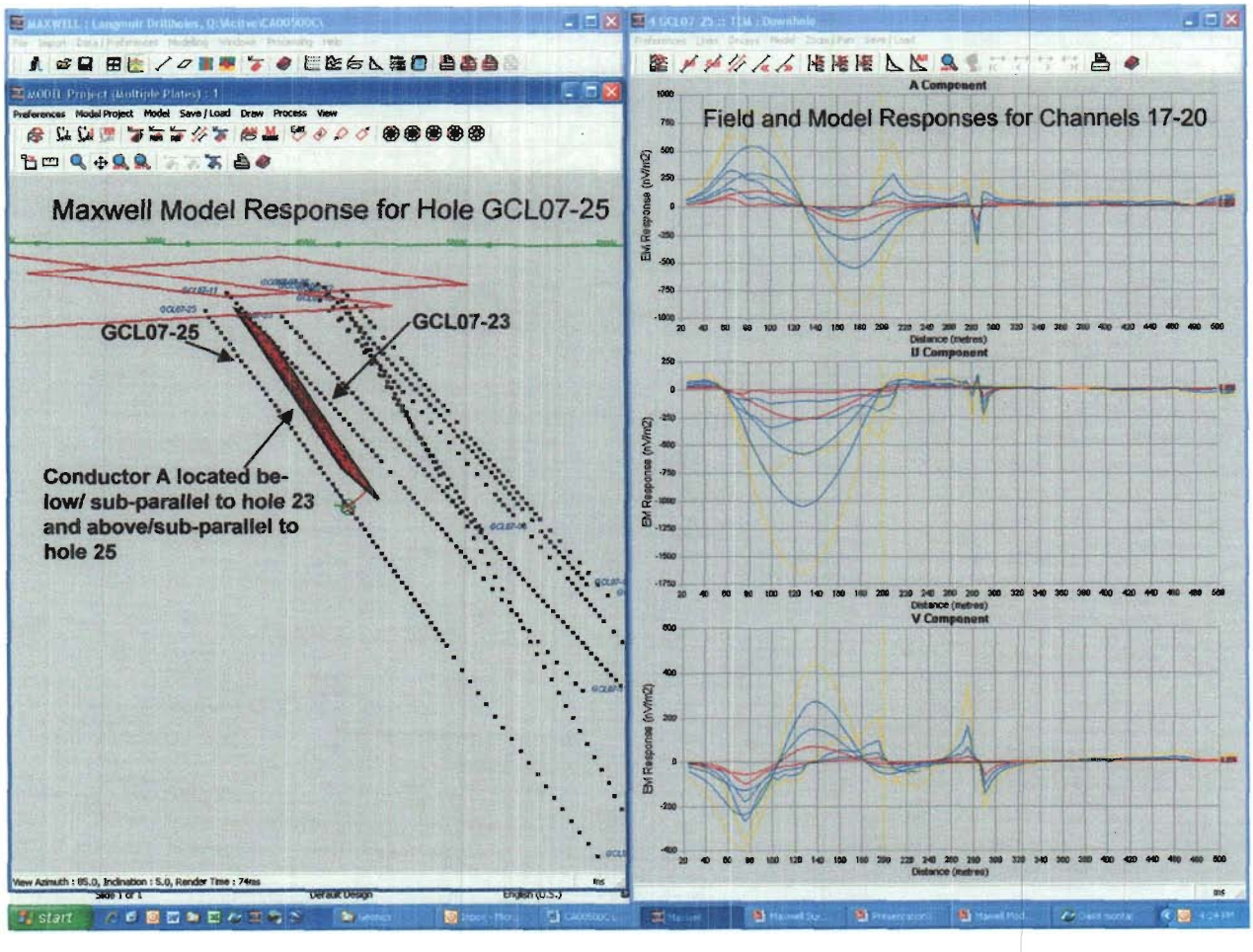


Figure 11: Maxwell Model Response for Hole GCL07-25

HOLE	ANOMALY DEPTH	ANOMALY TYPE	# CHANNELS RESPONDING	ANOMALY POLARITY	COMMENTS
GCL07-01	75 – 80	Off-hole	20	Hz: +ve to –ve Hx: -ve to +ve Hy: +ve	Strong, small to moderate surface area conductor. Centre lies mainly right (NE) approximately 20m and above (up dip) the hole.
	125	In-hole	13	Hz: +ve Hx: +ve to –ve Hy: +ve to –ve	Moderate strength, small to moderate surface area conductor tested by hole. There should be evidence of the conductor in the core. Any improvement will lie below (down dip) and right of the hole.
	140 – 145	Off-hole	20	Hz: -ve Hx: -ve to +ve Hy: +ve to –ve	Strong, moderate surface area conductor located above (up dip) the hole within 20m.
	175	Edge	20	Hz: -ve Hx: -ve to +ve Hy: -ve to +ve	Hole has tested lower edge of moderate area strong conductor. This small response is part of a larger crossover type Hz response suggesting the conductor is sub-parallel to the hole. Based on modeling, the centre is interpreted to lie above (up dip) and left (SW) of the hole.
GCL07-04	165	Off-hole	20	Hz: -ve to +ve Hx: -ve Hy: +ve to –ve	Hole has passed above strong, moderate area conductor which sub-parallels the hole. The centre is located approx. 10m below (down dip) and left of the hole.
GCL07-06	70	Off-hole	20	Hz: +ve to –ve Hx: +ve Hy: -ve	Hole has passed above strong, moderate area conductor. Centre is located approx. 35 – 40 m behind (down dip) the hole.
	110	Off-hole	20	Hz: -ve Hx: -ve to +ve Hy: -ve to +ve	Small area, strong conductor located approx. 25m above (up dip) and right (NE) of the hole.
	150	In-hole	20	Hz: +ve Hx: +ve to –ve Hy: -ve to +ve	Small area conductor – probably high conductance – late time Hz goes to 0. Corresponds to sulphides in the hole.
	160	Edge	20	Hz: -ve Hx: -ve to +ve Hy: +ve to –ve	Strong, small surface area conductor. Corresponds to sulphides in the hole. Any improvement will be above (up dip) and right (NE) of the hole.
GCL07-10	70	Off-hole	20	Hz: +ve to –ve Hx: +ve Hy: -ve	Hole has passed above strong, moderate area conductor. Centre is located approx. 35 – 40 m behind (down dip) the hole.
	90	In-hole	>20	Hz: +ve Hx: +ve Hy: +ve	Hole has tested centre region of small area, strong conductor. Corresponds to sulphides in the hole. Conductor is interpreted to continue up and down dip in along strike in both directions.
	110	Off-hole	20	Hz: -ve Hx: -ve to +ve Hy: +ve to –ve	Strong conductor located approx. 10m above (up dip) and right (NE) of the hole.
	135	In-hole?	13	Hz: +ve Hx: -ve to +ve H: +ve?	Weak, small area conductor tested by hole.
	160	Off-hole	15	Hz: -ve Hx: -ve to +ve Hy: +ve to –ve	Moderate strength, moderate surface area conductor located above (up dip) and right (NE) of the hole 25m.
	200	In-hole	20	Hz: +ve Hx: +ve to –ve Hy +ve to –ve	Strong, moderate area conductor tested by hole. Corresponds to graphite in the hole. Any improvement will be above (up dip) and right (NE) of the hole.
	260	In-hole	20	Hz: +ve Hx: +ve to –ve Hy: +ve to –ve	Strong, moderate area conductor tested by hole. Corresponds to graphite in the hole. Any improvement will be above (up dip) and right (NE) of the hole.
	>300				Building response at end of logged portion of the hole indicates probable conductor below 300m.
GCL07-11	45	In-hole	20	Hz: +ve Hx: -ve to +ve Hy: -ve +ve	Moderate strength conductor tested by hole. Corresponds to graphite and sulphides in the hole.
	65	In-hole	14	Hz: +ve Hx: ? Hy: -ve to +ve	Moderate strength, conductor tested by hole. Corresponds to graphite and sulphides in the hole.

HOLE	ANOMALY DEPTH	ANOMALY TYPE	# CHANNELS RESPONDING	ANOMALY POLARITY	COMMENTS
GCL07-11	95	Off-hole	20	Hz: +ve to –ve Hx: +ve Hy: -ve	Large surface area conductor sub-parallels hole located below (down dip) and centred along strike. Probably down dip extent of conductor at 45m.
	140	Off-hole	17	Hz: -ve Hx: +ve to –ve Hy: -ve to +ve	Small surface area, moderate strength conductor located below (down dip) and probably left (SW) of the hole.
	245	In-hole	16	Hz: +ve Hx: -ve to +ve Hy: +ve	Small surface area, moderate strength conductor. Corresponds to graphite in the hole.
GCL07-12	45	Edge	20	Hz: +ve/-ve Hx:-ve to +ve Hy: +ve to –ve	Small area, strong conductor tested by hole. Corresponds to graphite in the hole. Any improvement ents lies above (up dip) and right (NE) of the hole.
	95	Edge	20	Hz: +ve/-ve Hx:-ve to +ve Hy: +ve to –ve	Small area, strong conductor tested by hole. Corresponds to graphite in the hole. Any improvement ents lies left (SW) of the hole.
	130	Off-hole?	20	Hz: +ve to –ve Hx: Hy: +ve to –ve	Possible off hole conductor located below (down dip) of the hole.
	>300				Possible conductor beyond the end of the hole.
GCL07-13	45	Off-hole	20	Hz: -ve Hx: +ve Hy: +ve to –ve	Small area, strong conductor located above (up dip) and right (NE) of the hole. Probably related to in-hole conductor in hole 12 at 45m.
	90	Off-hole	20	Hz: +ve to –ve Hx: +ve Hy: -ve	Large surface area conductor sub-parallels hole located below (down dip) and centred along strike. Probably down dip extent of conductor at 45m.
	125	Edge	20	Hz: +ve/-ve Hx: -ve to +ve Hy: -ve to +ve	Small area, strong conductor tested by hole. Probably related to in-hole conductor in hole 12 at 95m.
	205	Off-hole	16	Hz: -ve Hx: -ve to +ve Hy: +ve to –ve	Moderate surface are moderate strength conductor located above (up dip) and right (NE) of the hole. Probably related to in-hole conductor in hole 12 at 130m.
GCL07-14	65	Off-hole	20	Hz: +ve to –ve Hx: +ve Hy: +ve to –ve	Hole has passed above strong, moderate area conductor. Centre is located approx. 35 – 40 m behind (down dip) the hole. Probably Conductor A.
	230	In-hole	5		Weak in-hole. Corresponds to sulphides in the hole.
	290	Edge	20	Hz: -ve Hx: +ve Hy: -ve	Small area conductor. Corresponds to sulphides in the hole.
	380	Edge	20	Hz: -ve Hx: +ve to –ve Hy: +ve to –ve	Small area strong conductor tested by hole. Any improvement will be below (down dip) and right (NE) of the hole. Corresponds to graphite in the hole.
GCL07-23	100-115	Off-hole	20	Hz: -ve to +ve Hx: +ve to –ve Hy: +ve	Complex response due to location and attitude of conductor relative to hole. Conductor centre is located below/behind (down dip) and left (SW) of the hole.
	265	In-hole	17	Hz: +ve Hx: -ve to +ve Hy: +ve to -ve	Hole has tested weak conductor. Poorly resolve Hx and Hy.
	305	Edge	20	Hz: +ve/-ve Hx +ve to –ve Hy: -ve to +ve	Hole has test upper edge of strong conductor. Any improvement lies below (down dip) and left (SW) of the hole. Corresponds to graphite in the hole.
	325	Edge	20	Hz: +ve/-ve Hx +ve to –ve Hy: +ve to -ve	Hole has test upper edge of strong conductor. Any improvement lies below (down dip) and rightt (NE) of the hole. Corresponds to graphite in the hole.
	350	Off-hole?	20	Hz: +ve to –ve Hx? Hy: -ve	Possible strong conductor sub-parallel and left of the hole. Very little supporting cross component response.
GCL07-25	125	Off-hole	20	Hz: +ve to -ve Hx: +ve to –ve Hy: -ve	Complex anomaly. Large area, strong conductor located sub-parallel, above (up dip) and left (SW) of the drill hole. Conductor A

HOLE	ANOMALY DEPTH	ANOMALY TYPE	# CHANNELS RESPONDING	ANOMALY POLARITY	COMMENTS
GCL07-25	210	In-hole	20	Hz: +ve Hx: -ve to +ve Hy: +ve to –ve	Hole has tested centre of strong, moderate area conductor. Any improvements lies above (up dip) and right (NE) of the drill hole. Corresponds to graphite and sulphides in the hole.
	265	In-hole	12	Hz: +ve Hx: ¿ Hy: ¿	Possible weak in-hole conductor.
	285	Edge	20	Hz: +ve/-ve Hx: -ve Hy: +ve to –ve	Hole has tested edge of strong, moderate area conductor. Any improvement lies right (NE) of the hole. Corresponds to graphite in the hole.
	480	Off-hole	20	Hz: -ve Hx: +ve to –ve Hy: +ve to –ve	Hole has passed above strong, small to moderate area conductor. Centre lies within 15m below (down dip) and right (NE) of the drill hole.

Table VIII: Anomaly Table for Borehole TEM Surveys

5. CONCLUSIONS AND RECOMMENDATIONS

Surface and Borehole TEM Surveys in the Vicinity of Holes GCL07-06 to 25

The surface TEM survey over the Langmuir property was successful in delineating several zones of conductivity. The most significant is Conductor A and based on the results of the borehole TEM survey, it has not been properly tested. Drill hole GCL07-11 appears to have tested the upper edge of the conductor however most of the other holes (06, 10, 12, 13, 14, 23) except 25 have been drilled north of and down dip, and have "overshot" the conductor. The only hole drilled underneath the conductor and logged, is hole GCL07-25 and it also missed. To properly test Conductor A, it is recommended that a hole be drilled grid south to intersect the conductor approximately 75m vertically below line 0, 140N.

Conductor B has not been test tested as well, based on the results of the borehole TEM surveys. Hole GCL07-10 appears to have drilled underneath the conductor based on the off-hole response detected above (up dip) the hole at 160m. This indicates that Conductor B has a limited depth extent and does not extend much below 100m vertical depth. Therefore, if Conductor B is considered geologically favourable, it is recommended that a hole be drilled grid north to intersect the conductor approximately 75m vertically below line 0, 225N.

Conductor C has not been tested based on the holes logged to date. Although this conductor has a short strike length, it has a high conductance and may have a sulphide source. If considered geologically favourable, a hole is recommended to test the conductor approximately 30m vertically below line 150E, 75N.

Hole GCL07-05 was drilled to the test an airborne conductor which corresponds to surface Conductor D. Unfortunately, the hole was not logged due to a blockage and it could not be determined if the conductor had been tested or not. Based on the orientation of the hole (340°), it appears that the hole has passed grid east of the strongest part of the conductor. Therefore, if still considered geologically favourable, a hole is recommended drilling grid north, to test the conductor approximately 25m vertically below line 250W, 337N.

Conductor E appears to have been tested by hole GCL07-12 at 45m. Since hole 13 detected an off-hole conductor located above the hole at 45m it can be concluded that Conductor E has limited depth extent (<40m vertical). Unless considered geologically favourable, further testing of this conductor is not recommended.

In general, the predominant borehole TEM response in holes GCL07-06, 10, 11, 12, 13, 14, 23 and 25 is from Conductor A. All other responses in the holes depict conductors of limited size and varying conductances from moderate to high. In some ways, this confirms the results of the surface survey in that, other than Conductors A and B which remain untested, the remaining conductors, C, D and E model as short strike length, limited depth extent bodies. The sources of the conductors detected in the holes, both in-hole and off-hole and other than Conductor A, also model this style of body. Even the sources of the economic mineralization (holes 06 at 150m and 10 at 90m) produce responses depicting small sources albeit high conductance ones. This may reflect the sporadic nature of continuous massive sulphide or stringer mineralization which should produce larger responses, both in and off-hole.

Borehole TEM Surveys in Holes GCL07-01 and 04

Based on the borehole TEM survey results in hole GCL07-01, the probable source of the airborne response (off-hole conductor at 75m) appears untested. Therefore, a second hole is recommended, drilling north (360°) to intersect the conductor 60m vertically below 500081E, 5348217N (NAD 83). Continuing the hole to approximately 200m depth may very well test the source of the interpreted off-hole conductor at 140m as well. If the possible explanation for the lower conductor (edge response at 175m) is still geologically favourable, then another hole, drilled north to south will be required to properly test the centre of this source. The collar should be set to test the conductor 125m vertically below 500023E, 5348253N (NAD 83).

Based on the borehole TEM survey results in hole GCL07-04, the source of the airborne response (off-hole conductor at 165m) appears untested. Therefore, if considered geologically favourable, a second hole drilled southeast (135°) should be set to test the conductor 135m vertically below 498074E, 5349505N (NAD 83).

Borehole TEM should continue to be employed to characterize mineralization intersected by drill holes and to determine if other conductors exist off hole within a 50 to 100m radius.

RESPECTFULLY SUBMITTED
QUANTEC GEOSCIENCE LTD.

S.T. Coulson, P.Geo.
Senior Geophysicist

APPENDIX A

STATEMENT OF QUALIFICATIONS

I, Sherwood T. Coulson, hereby declare that:

1. I am a consulting geophysicist with residence in Porcupine, Ontario and am presently employed in this capacity with Quantec Geoscience Inc. of Porcupine, Ontario.

2. I am a graduate of Cambrian College, Sudbury, Ontario in 1974 with an Honours Diploma in Geophysical Engineering Technology.

3. I am a practicing member of the Association of Professional Geoscientists of Ontario (Member #0944) since 2003.

4. I have practiced my profession in Europe and North and South America continuously since graduation.

5. I am a member of the Canadian Society of Exploration Geophysicists and the Prospectors and Developers Association.

6. I have no interest nor do I expect to receive any interest, direct or indirect, in the properties or securities of **GOLDEN CHALICE RESOURCES INC.**

7. I supervised the survey execution and reviewed the data as it was collected. I am the author of this report and I interpreted the data. The statements made by me represent my best opinion and judgment based on the information available to me at the time of the writing.

PROFESSIONAL GEOSCIENTIST
SHERWOOD COULSON
PRACTISING MEMBER
0944
ONTARIO

Porcupine, ON
October 2007

S.T. Coulson, P.Geo.
Senior Geophysicist

APPENDIX B

THEORETICAL BASIS AND SURVEY PROCEDURES

TEM SURFACE AND BOREHOLE PROFILING

TEM profiling is conducted on lines either adjacent to (Off-Loop mode) or surrounded by (In-Loop mode) a large fixed rectangular transmit loop. Current is passed through the loop which following the Turn-Off, produces a primary magnetic field (H) both inside and outside (Figure B1). This primary field induces vortex current patterns, which energize conductors and which in turn create their own secondary magnetic field (Bs). The rate of change of the decaying secondary magnetic flux (dBs/dt) is measured as the vertical (**Hz**), in-line horizontal (**Hx**) and/or cross line horizontal (**Hy**) vector components on surface using an air-core sensor coil. These measurements of the TEM decay (20 log-time slices) are taken during the "Off-Time", using a 30 cycle/sec, base repetition rate.

In keeping with the industry standard, the primary field is always considered positive up inside the loop and negative down outside. Similarly, for secondary EM fields, the receiver coil is oriented positive vertical up for the **Hz** component. The convention for In-Loop surveys, has the in-line component, **Hx** oriented either positive east (for grid EW lines) or north (for grid NS lines). The Off-Loop survey convention differs, with the receiver coil orientation for **Hx** pointing positive away from the transmit loop (for EW or NS lines). Finally, the sign convention in all cases, has the **Hy** component pointing positive orthogonal to the left of the **Hx**, according to the right-hand-rule.

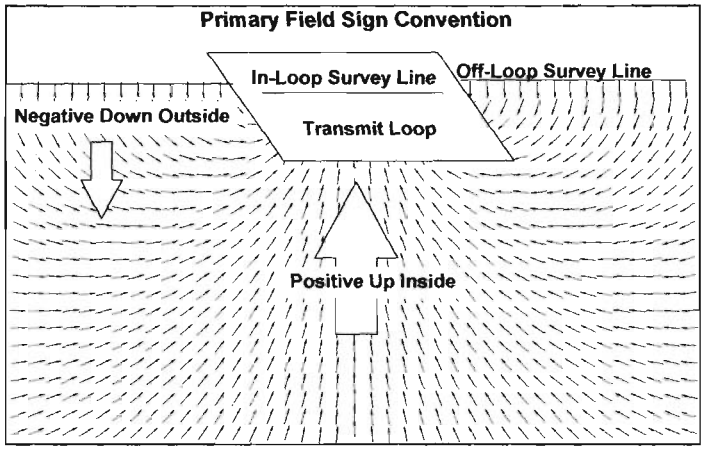


Figure B1: Primary field sign convention for TEM surveys.

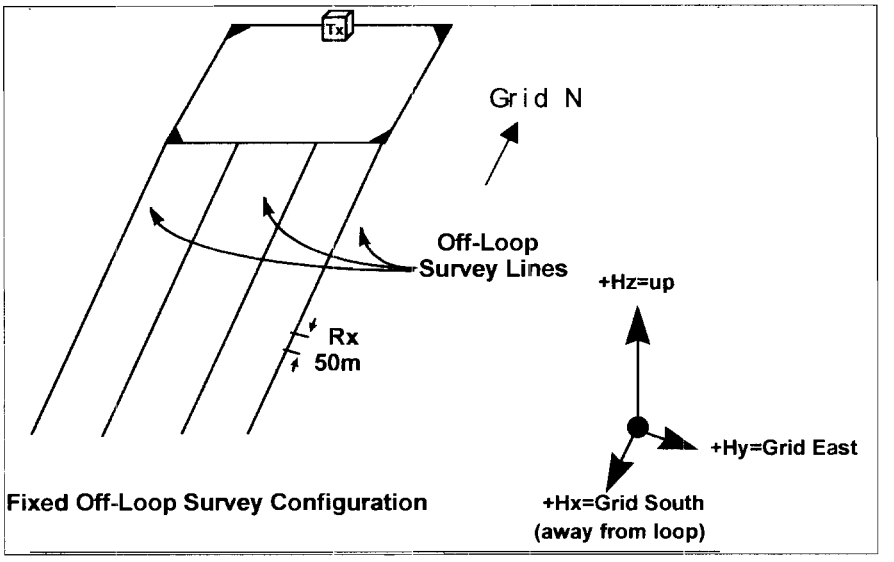


Figure B2: Loop Configuration and Polarity Conventions for Off-Loop Profiling Surveys

The borehole survey is particularly useful to determine the geometrical relationship between a conductor or a complex swarm of conductors around the drill hole. Of particular importance is its application in cases where the drilling is believed to have missed the target of interest. A 3-D borehole survey can effectively determine the direction and distance from the drill hole to the conductor by measuring two orthogonal secondary field components in addition to the axial component. Additionally, conductors located below the end of a drill hole, which either may be too deep and/or have gone previously undetected from surface, may be discovered during the course of a borehole survey.

The probe is manually lowered down the borehole at the end of a cable and, at successive depths, measurements of three (3-D) orthogonal components of the TEM field (Hx, Hy, Hz) are individually obtained in succession by electronically switching the sensor coils in the borehole antenna through the use of a relay/switching system from surface, via the borehole-cable shield. As the probe is free to rotate on its vertical axis, a correction is later applied to the 3-D data in order to rotate the components into their respective coordinate axis.

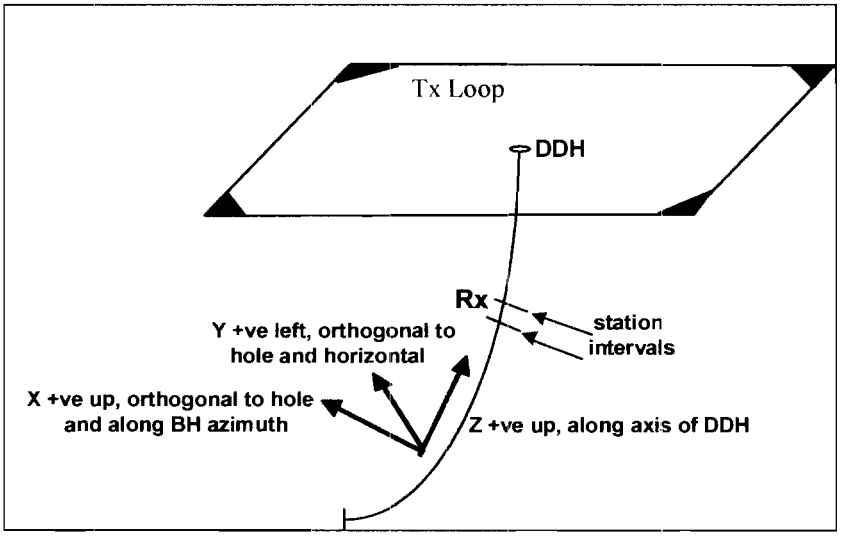


Figure B3: Loop Configuration and Polarity Conventions for 3-D Borehole Surveys

The secondary fields induced decay at a rate proportional to the conductivity-thickness and are then measured and profiled by the borehole sensor-probe.

a) Hz is positive up along the axis of borehole,

b) Hx is positive perpendicular to the borehole axis and pointing upward, in a vertical plane, in the direction of the azimuth of the hole,
c) Hy is positive 90° counterclockwise to Hx and horizontal, according to the right-hand rule.

At the end of each survey day, the stored data are transferred to a microcomputer where they corrected for the turn-off time, loop area, system gain and current, and converted from millivolts to nanoVolts per ampere meter squared or nanoVolts per meter squared. The data are then transferred to disk for storage and processing. Report quality field plots are generated on site, using a 24-pin printer in order to monitor the data characteristics and to provide a preliminary interpretation capability.

The following equations govern the transient EM response for buried plate-like conductive bodies[1]

$$emf = \frac{1}{\tau} e^{-t/\tau}$$

Target Response to Transmitter Current Waveform: *where:* t = *fixed time*
e = *exponential decay*
τ = *time constant of conductor*

Equation 1: Conductor Response to the Transient EM Waveform

The time constant of the response is alternatively defined as the slope of the lin-log decay curve (Geonics) or, more exactly, as the time channel where the amplitude of the decay collapses to 37% (1/e) of its maximum value. Both τ and the analogous decay strength (i.e., the number of anomalous channels above background), are commonly used as indicators of conductor quality. This relationship between decay-strength and the conductivity-thickness can easily be demonstrated in the following equation for a vertically dipping conductive sheet:

$$\tau = \frac{\sigma \mu t h}{\pi^2} \quad \textit{for a thin plate}$$

where σ = *conductivity of target*
μ = *magnetic susceptibility*
t = *thickness of plate*
h = *vertical extension of plate*

Equation 2: Transient EM Decay Time Constant

[1] From Geonics Limited, EM-37 TEM System Design Parameter, Mississauga, Ont., 1982.

thereby giving, for an infinite vertical sheet:

$$\sigma t = \frac{\pi^2}{\mu h} \tau \approx \tau / 0.31 \quad mhos / metre \ (siemens)$$

Equation 3 Conductivity Thickness

From these equations and relationships, it therefore becomes obvious of the common use of the anomaly strength of decay as a simple, rule-of thumb indicator of the relative conductivity-thickness product for TEM surveys.

In addition, the total secondary field is calculated using the three components (Hx, Hy and Hz) in the following formula

$$Htot = \sqrt{Hx^2 + Hy^2 + Hz^2} \, nanoVolt / Am^2$$

Equation 4: Transient EM Total Secondary Field

APPENDIX C

INSTRUMENT SPECIFICATIONS

Geonics Limited
Digital Protem Ground Transient Electromagnetic System
Technical Specifications

Receiver

Measured Quantity: Time rate of decay of magnetic flux along 3 axes

Sensors:

1. (L.F.): Air-cored coil of bandwidth 60 kHz; 100 cm diameter
2. (H.F.):Air-cored coil of bandwidth 850 kHz; 100 cm diameter
3. (3D-3): Three orthogonal component sensor; simultaneous operation
4. (3D-1): Three orthogonal component sensor; sequential operation

Time channels: 20 geometrically spaced time gates for each base frequency gives range from 6 μsec to 800 msec.

Repetition Rate: 0.3 Hz, 0.75, 3, 7.4, 30, 75 or 285 Hz for 60 Hz power-line networks (Base Frequency)

Synchronization: 1) reference cable.
2) high stability (oven controlled) quartz crystals. (Switch selectable)

Integration time: 2, 4, 8, 15, 30, 60, 120, 240 sec.

Calibration: Internal self-calibration
External Q coil calibration (optional)

Keyboards: Two 3 x 4 matrix sealed key pads with positive tactile feedback

Gain: Automatic or manual control

Dynamic Range: 23 bits (132 dB)

Display Quantity:

(1) Table of time rate of decay of magnetic flux (dB/dt)
(2) Curve of rate of decay of magnetic flux (dB/dt)
(3) Table of apparent resistivity (ρ_a)
(4) Curve of apparent resistivity (ρ_a)
(5) Profile of dB/dt
(6) Real time noise monitor
(7) Calibration curve
(8) Data acquisition statistics (real time)

Storage: Solid state memory with capacity for over 3000 data sets

Display: 8 lines by 40 character (240 x 64 dot) graphic LCD

Data Transfer: Standard RS-232 communications port.

Processor: CMOS 68HC000 8 MHz CPU

Receiver Battery: 12 volts rechargeable battery for 8 hours continuous operation. 6 hours in XTAL mode

Receiver Size: 34 x 38 x 27 cm

Receiver Weight: 15 kg

Operating Temp.: -40°C to +50°C

Transmitters: (1) Geonics TEM47
(2) Geonics TEM57
(3) Geonics TEM37

	30/25Hz			7.5/6.25Hz			3/2.5Hz		
30 gate mode	start	center	width	start	center	width	start	center	width
1	5.800	6.800	2.000	32.00	36.00	8.000	80.00	90.00	20.00
2	7.800	9.110	2.625	40.00	45.25	10.50	100.0	113.1	26.25
3	10.40	12.00	3.250	50.50	57.00	13.00	126.3	142.5	32.50
4	13.70	15.90	4.375	63.50	72.25	17.50	158.8	180.6	43.75
5	18.00	20.80	5.500	81.00	92.00	22.00	202.5	230.0	55.00
6	23.50	27.00	7.000	103.0	117.0	28.00	257.5	292.5	70.00
7	30.50	34.80	8.500	131.0	148.0	34.00	327.5	370.0	85.00
8	39.00	44.40	10.75	165.0	186.5	43.00	412.5	466.3	107.5
9	49.80	56.30	13.00	208.0	234.0	52.00	520.0	585.0	130.0
10	62.80	70.30	15.00	260.0	290.0	60.00	650.0	725.0	150.0
11	77.80	85.90	16.25	320.0	352.5	65.00	800.0	881.3	162.5
12	94.10	104.7	21.25	385.0	427.5	85.00	963.0	1069	212.5
13	115.3	129.1	27.50	470.0	525.0	110.0	1175	1313	275.0
14	142.8	159.7	33.75	580.0	647.5	135.0	1450	1619	337.5
15	176.6	198.4	43.75	715.0	802.5	175.0	1788	2006	437.5
16	220.3	248.6	56.25	890.0	1002.5	225.0	2225	2506	562.5
17	276.6	312.3	71.25	1115	1257.5	285.0	2790	3144	712.5
18	347.8	393.5	91.25	1400	1582.5	365.0	3500	3957	912.5
19	439.0	497.1	116.2	1765	1997.5	465.0	4413	4994	1162
20	555.3	629.0	147.5	2230	2525.0	590.0	5575	6313	1475
21	702.8	797.3	188.7	2820	3197.5	755.0	7050	7994	1887
22	891.5	1012	240.0	3575	4055.0	960.0	8940	10138	2400
23	1131	1285	306.2	4535	5147.5	1225	11338	12870	3062
24	1438	1634	391.2	5760	6542.5	1565	14400	16350	3913
25	1829	2079	498.7	7325	8322.5	1995	18310	20806	4987
26	2328	2645	636.2	9320	10592	2545	23300	26475	6363
27	2964	3370	812.5	11865	13490	3250	29663	33725	8125
28	3776	4295	1036	15115	17187	4145	37800	42975	10362
29	4813	5473	1321	19260	21902	5285	48150	54750	13212
30	6134	6978	1685	24545	27915	6740	61360	69800	16850
	7819			31285			78200		

Note: All times in microseconds

Table C1: Digital Protem Gate Locations

This Table applies to both synchronization modes regardless of which of TEM37, TEM47 and TEM57 transmitters is used, provided that correct Tx model is selected in Header (2.4).

Note: 7.5/6.25 and 0.75/0.625 Hz proportional to 75/62.5 Hz
3/2.5 and 0.3/0.25 Hz proportional to 30/25 Hz

Geonics Limited
EM-37 Transient Electromagnetic Transmitter
Technical Specifications

Current Wave form: bipolar square wave.

Repetition Rate: 3Hz, 7.5Hz or 30Hz in countries using 60Hz power line frequency; 2.5Hz, 6.25Hz or 25Hz in countries using 50Hz power line frequency; all six base frequencies are switch selectable.

Turn-off Time(t): fast linear turn-off maximum of 450 μsec. at 30 amps into a 300x600 meter loop. Decreases proportionally with current and the root of the loop area to a maximum of 20 μ sec. Actual value of t read on front panel meter.

Transmitter Loop: any dimensions from 40x40 meters to 300x600 meters maximum at 30 amps. Larger dimensions at reduced current. Transmitter output voltage switch adjustable for smaller loops. Value of loop resistance read from front panel meter; resistance must be greater than 1 ohm on lowest setting to prevent overload.

Protection: circuit breaker protection against input over voltage; instantaneous solid state protection against output short circuit; automatically resets on removal of short circuit. Input voltage output voltage and current indicated on front panel meter.

Output voltage: 24 to 160 volts (zero to peak) maximum

Output power: 2800 watt maximum

Motor generator: 5 HP Honda gasoline engine coupled to a 120 volt, three phase, 400 Hz alternator. Approximately 8 hours continuous operation from built-in fuel tank.

Component Dimensions and Weights

Transmitter Console : 20 by 42 by 32 cm, 20 kg

GPU: 44 by 32 by 21 cm, 65 kg

GEONICS LIMITED

BH-43 3-D Borehole Probe with Tilt Sensors
Technical Specifications

Measured Quantity:	Time derivative of axial and radial magnetic field
Sensors:	Three orthogonal coils (one axial, two radial)
Overall Length:	334 cm
Maximum Diameter:	3.8 cm
Weight:	9.5 kg
Sensor-Preamplifier Resonant Frequency:	10 kHz
Sensor Areas:	100 m^2
Operating Temperature:	-30 degrees C to +80 degrees C
Probe Rotation Correction:	Two orthogonal tilt meters with range ±1° to ±80° from vertical
Battery:	Rechargeable NiCd sealed pack for 15 hours continuous operation

Cable

Type:	Two-conductor shield polyurethane jacket Kevlar membrane
Diameter:	5.6 mm
Weight:	40 kg/km
Length:	540m

APPENDIX D

PRODUCTION LOG

Date	Description	Line/Hole #	Start	End	Total (m)
24-May-07	Located holes 5 and 6. Dummy probed hole 5 but blocked at 5m due to mud in the casing - it appears casing came apart. Move to hole 6 and dummied clear to bottom. Laid 200m loop around hole ready to survey tomorrow.				
25-May-07	Logged hole 6. Moved all gear to hole 4.	GCL07-06	10	223	213
26-May-07	Dummy probed hole 4 to 260m where is was blocked. Layed 200m loop and logged hole. Moved gear back to road to hole 3.	GCL07-04	30	260	230
28-May-07	Moved all gear into hole 3. Dummy probed but hole blocked at 50m. Moved all gear to hole 2. Dummy probed clear to 250m. Layed 200m loop ready to log tomorrow.				
29-May-07	Logged hole 1 then moved to hole 2. Dummy probed to bottom but hit obstructions at 60m and 150m on way down. Dummy probe jammed at 150 on the way back up and had to shear pin. Decided not to log hole - too dangerous.	GCL07-01	10	249	239
17-Jul-07	Mob to property. Set up 200m x 200m. Dummy holes 12 and 13. Log hole 12.	GCL07-12	15	300	285
18-Jul-07	Logged hole 13, moved dummied (blocked at 300m) and logged hole 10.	GCL07-13	15	457	432
19-Jul-07	Dummy and log holes 11 and 14 to bottom. Pack up gear and loop and remove from property.	GCL07-14	15	400	385
		GCL07-11	15	397	382
05-Sep-07	Locate grid. Met with drillers to discuss safety issues. Install a 300 x 550m loop from L3W to L2+50E. Hang wire above drillers machines. No survey				
06-Sep-07	Start TEM Surface Survey (30Hz high frequency). Use 2min integration and 12.5m station spacing.	L0+00	2+00S	200	200
		L0+50E	2+00S	3+00N	500
07-Sep-07	TEM Survey (high frequency) Transmitter failed in early afternoon. Return to Timmins for repairs.	L0+00	0+00	2+50N	250
08-Sep-07	Heavy rain all day. Attempted to access grid at 8:00am and again at 11:00am but too much rain to survey.				
09-Sep-07	TEM Survey (high frequency)	L1+00E	2+00S	2+75N	475
		L1+50E	2+00S	2+00N	400
10-Sep-07	TEM Survey (high frequency)	L2+00E	2+00S	1+50N	350
		L2+50E	0+00	1+25N	125
11-Sep-07	TEM Survey (high frequency)	L0+50W	2+50S	3+25N	575
		1+00W	0+00	3+50N	350
12-Sep-07	TEM Survey (high frequency)	L1+00W	2+00S	0+00	200
		L2+00W	2+00S	3+75N	575
13-Sep-07	TEM Survey (high frequency)	L1+50W	2+00S	3+50N	550
		L2+50W	2+00S	0+00	200
14-Sep-07	TEM Survey (high frequency)	L2+50W	0+00	4+00N	400
		L3+00W	0+00	3+75N	375
15-Sep-07	Tested new fluxgate and induction coils at 3Hz. Obvious problems with data are unresolved.				
16-Sep-07	Used 2 receivers to compare coils and attempt to resolve data issues. After discussions with Woody conclude there are software issues with receiver in 30 channel mode using the 3D-3 coil. Induction Coil - 3Hz. Data will have to be repeated.				
17-Sep-07	Used 2 receivers. Induction Coil - 3Hz	L0+00	2+00S	3+50N	550
	TEM Survey Induction Coil - 3Hz	L0+50W	2+50S	3+25N	575
	TEM Survey Induction Coil - 3Hz	L0+50E	2+00S	3+00N	500
	More tests with fluxgate coil.				
18-Sep-07	Stopped using fluxgate coil due to questionable data. Continue using Induction Coil for remainer of 3Hz survey.	L1+50W	2+00S	3+50N	550
		L2+00W	2+00S	2+75N	475
19-Sep-07	Continue survey with 2 receivers and Induction Coils at 3Hz.	L2+50W	2+00S	4+00N	600
		L1+00W	2+00S	3+50N	550
20-Sep-07	Lost half day due to transmitter problems but used 2 receivers to	L3+00W	0+00	3+75N	375

	compensate.				
		L1+00E	2+00S	2+75N	475
21-Sep-07	Use 2 receivers to complete survey. Induction Coil - 3Hz	L2+50E	0+00	1+25N	125
		L2+00E	2+00S	1+50N	350
		L1+50E	2+00S	2+00N	400
22-Sep-07	BHTEM Survey (30 gates- 30Hz) using surface loop.	GCR25-07	25	500	475
23-Sep-07	BH-TEM Survey (30 gates- 30Hz) using surface loop.	GCR23-07	15	400	385
24-Sep-07	Recover loop and equipment and demob to Timmins				

APPENDIX E

LIST OF MAPS

- **LPTEM Surface Profiles:** **Multi-Channel 4-Axis Profile Plots:** showing time rate of decay of the secondary electromagnetic field, for X, Y and Z, 1:5000 scale, ch. 1-20 divided according to 4 vertical (linear) axes, nV/Am^2
- **LPTEM Borehole Profiles:** **Multi-Channel 4-Axis and LinLog Profile Plots:** showing time rate of decay of the secondary electromagnetic field, for X, Y , Z and Total Field components, 1:2000 scale, ch. 1-20 divided according to 4 vertical (linear) axes and ch 1-20 from a single axis , nV/m^2

Drawing #s: **CA00500C-4AXIS-K-Line#**, where K=Z, X, Y
CA00500C-BH4AXIS-TILT-K-Borehole#, where K=Z, X, Y, TF (Total Field).
CA00500C-BHLL-TILT-K-Borehole#, where K=Z, X, Y, TF (Total Field)

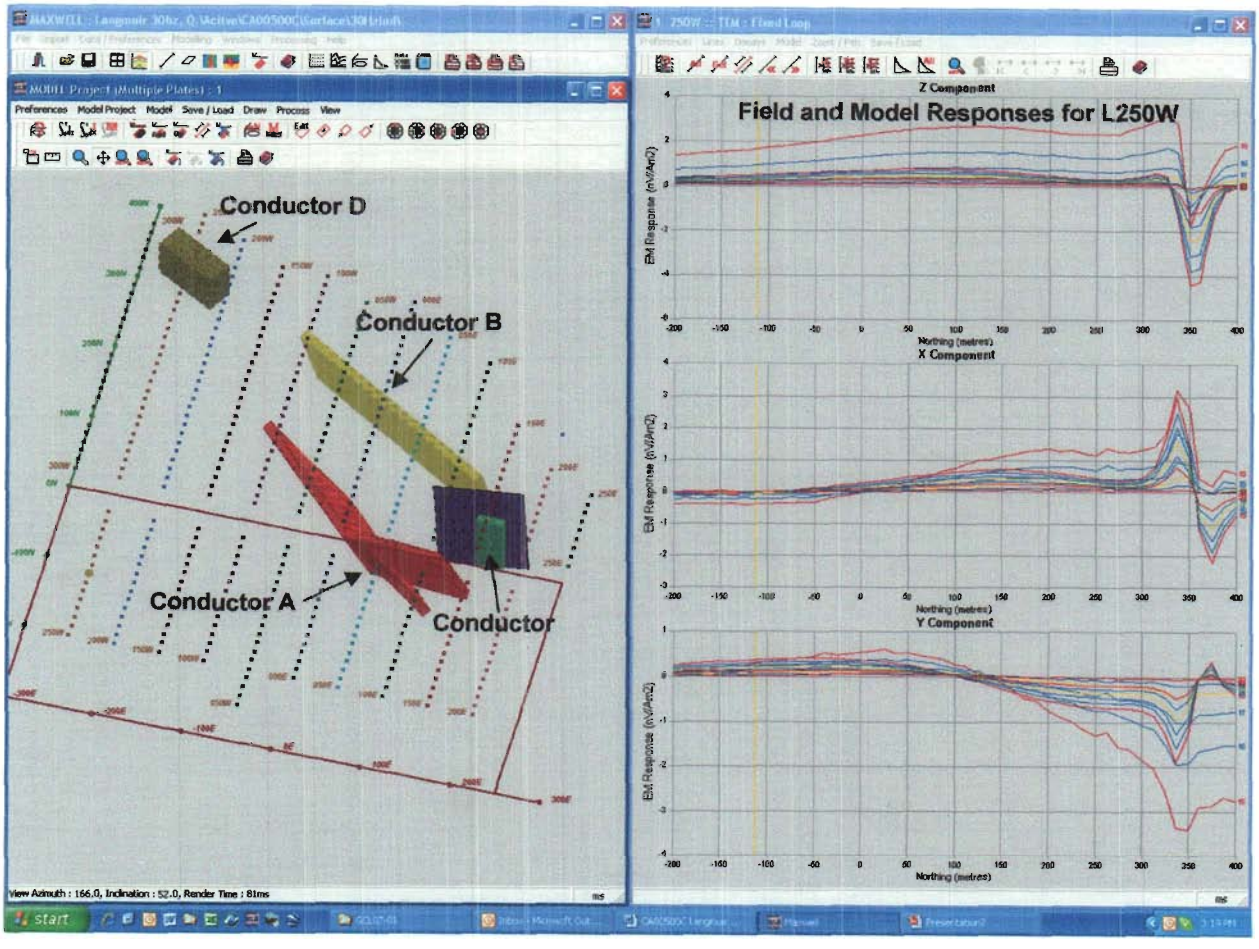
LINES/BOREHOLES	TOTAL PROFILES
Lines 300W to 250E (30Hz and 3Hz)	72
GCL07-06	8
GCL07-10	8
GCL07-11	8
GCL07-12	8
GCL07-13	8
GCL07-14	8
GCL07-23	8
GCL07-25	8

- **Plan Map -** **Interpretation Plan Map:** showing conductor axes
Drawing #: **CA00500C -TEM-INTERP**

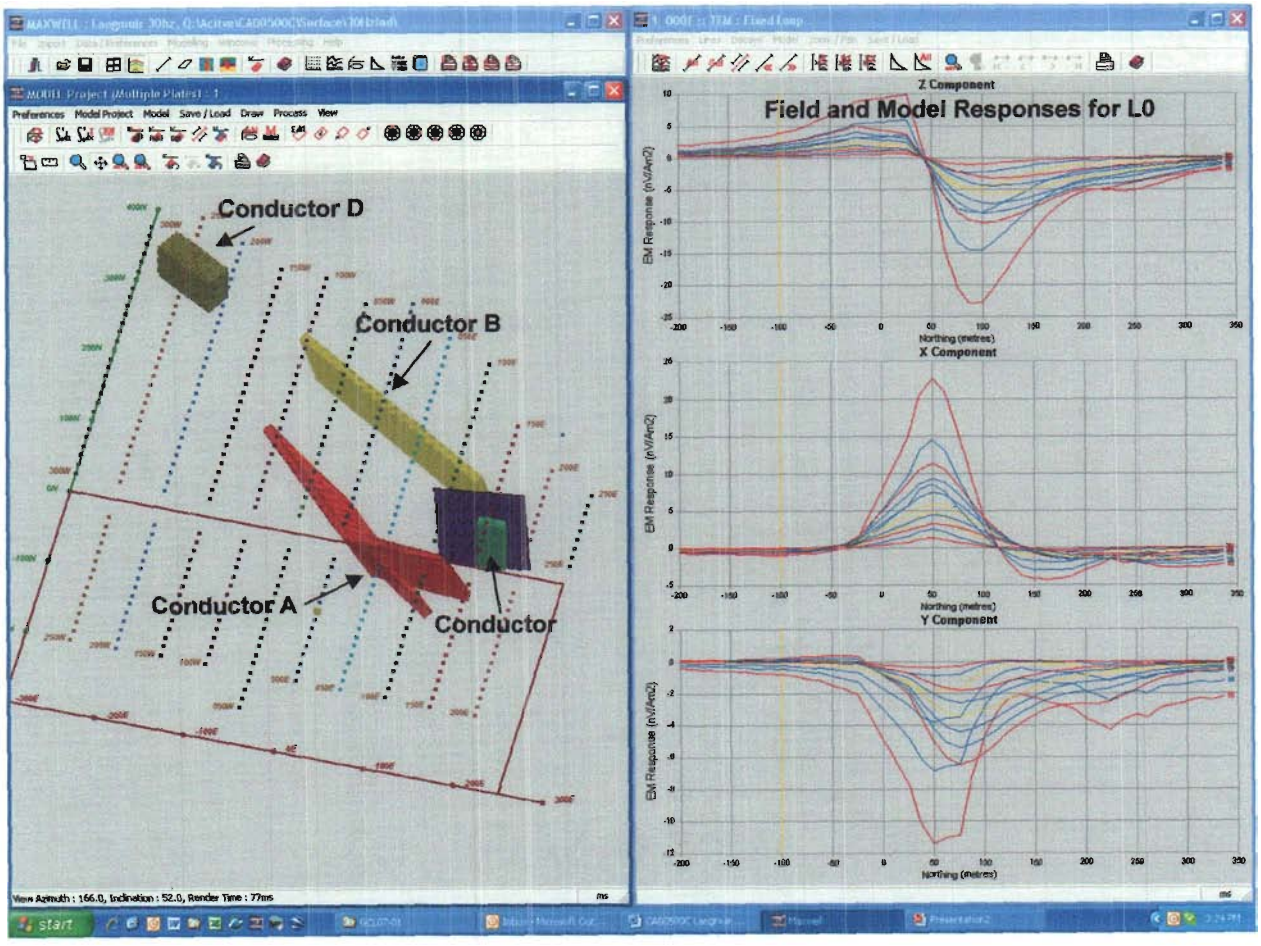
Total Profiles: 112
Total Plans: 1

APPENDIX F

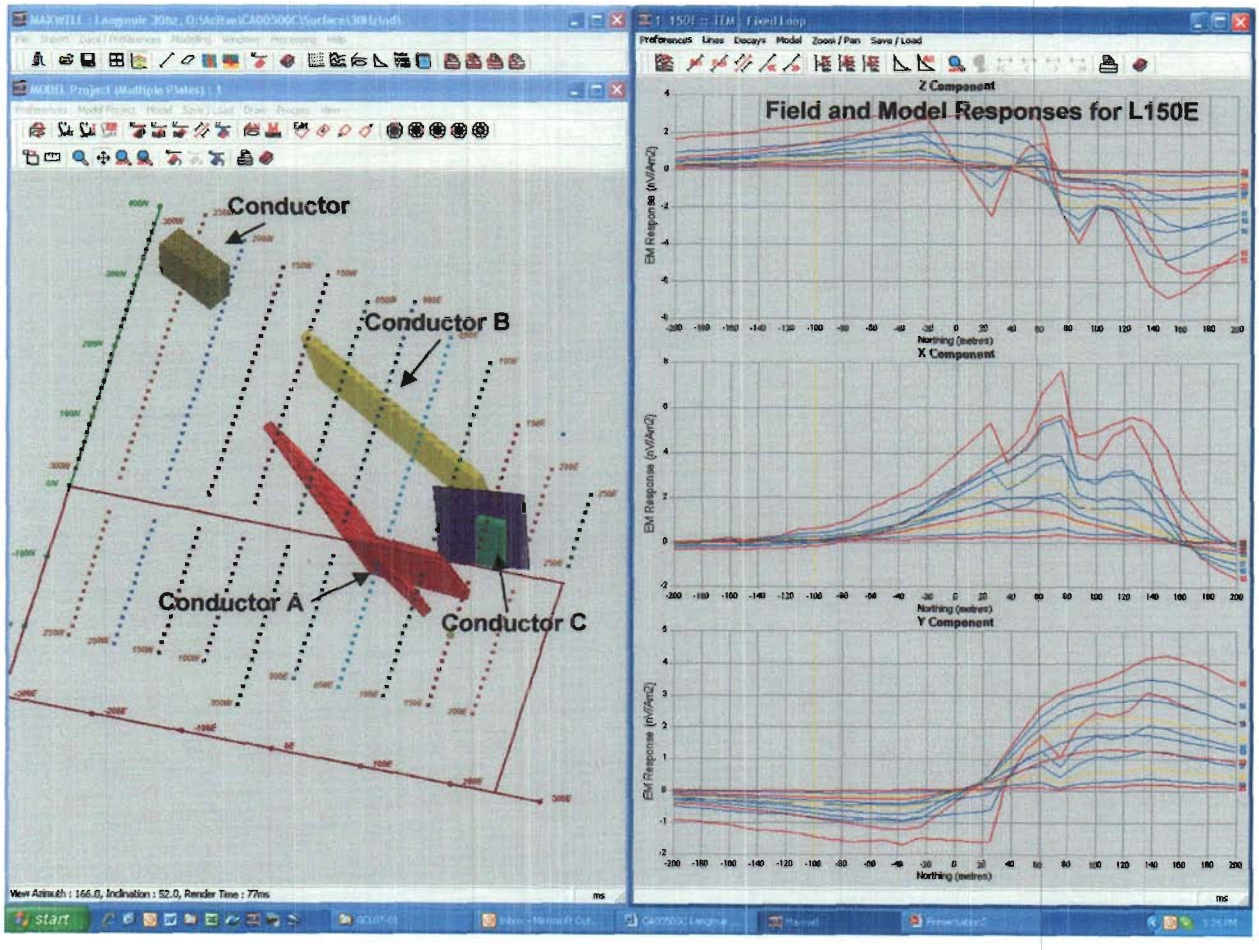
MODELS, PROFILES, PLAN MAPS



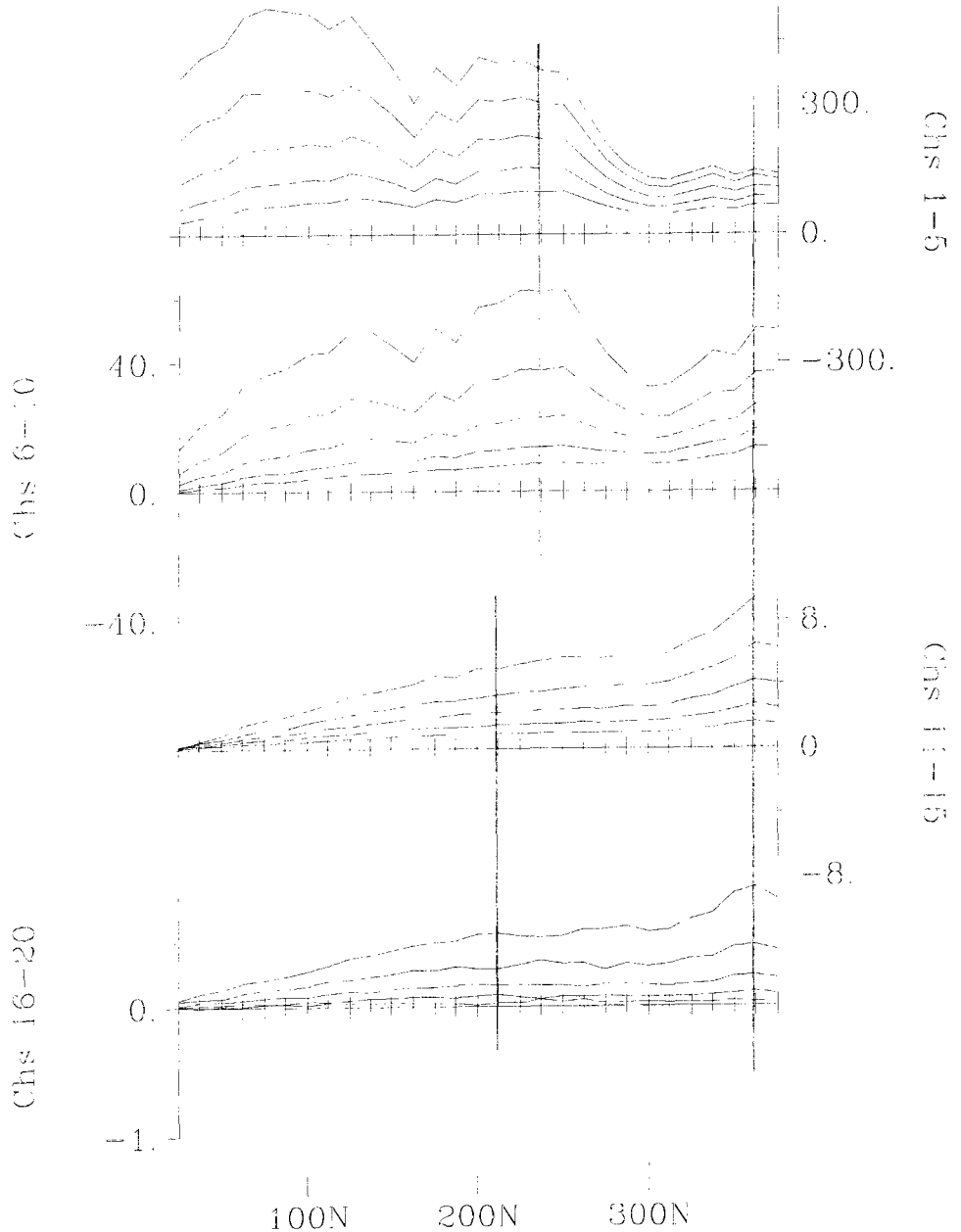
MAXWELL MODEL RESULTS FOR LINE 250W



MAXWELL MODEL RESULTS FOR LINE 0



MAXWELL MODEL RESULTS FOR LINE 150E



Line 300W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

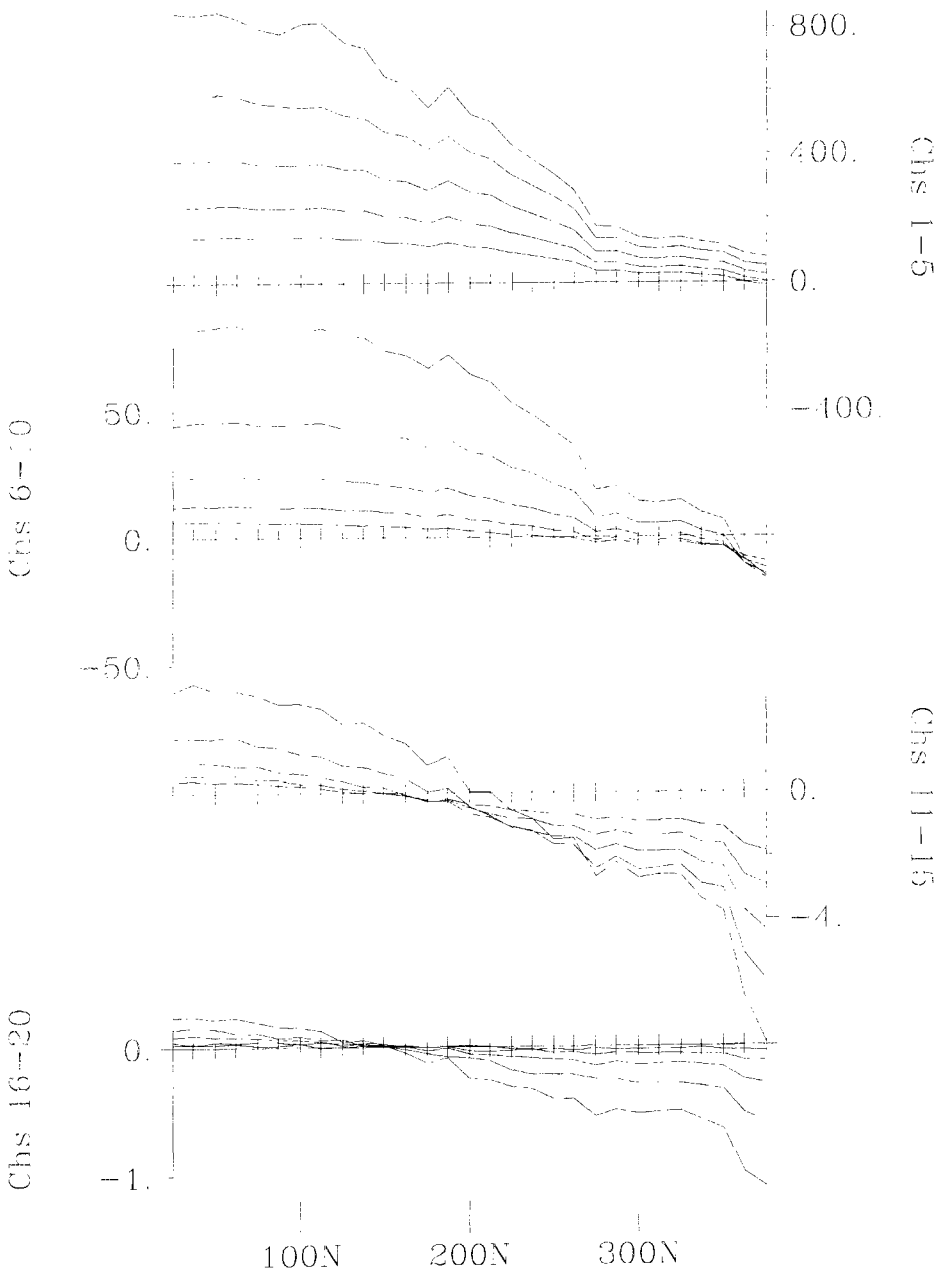
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.14, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-300W



Line 300W – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

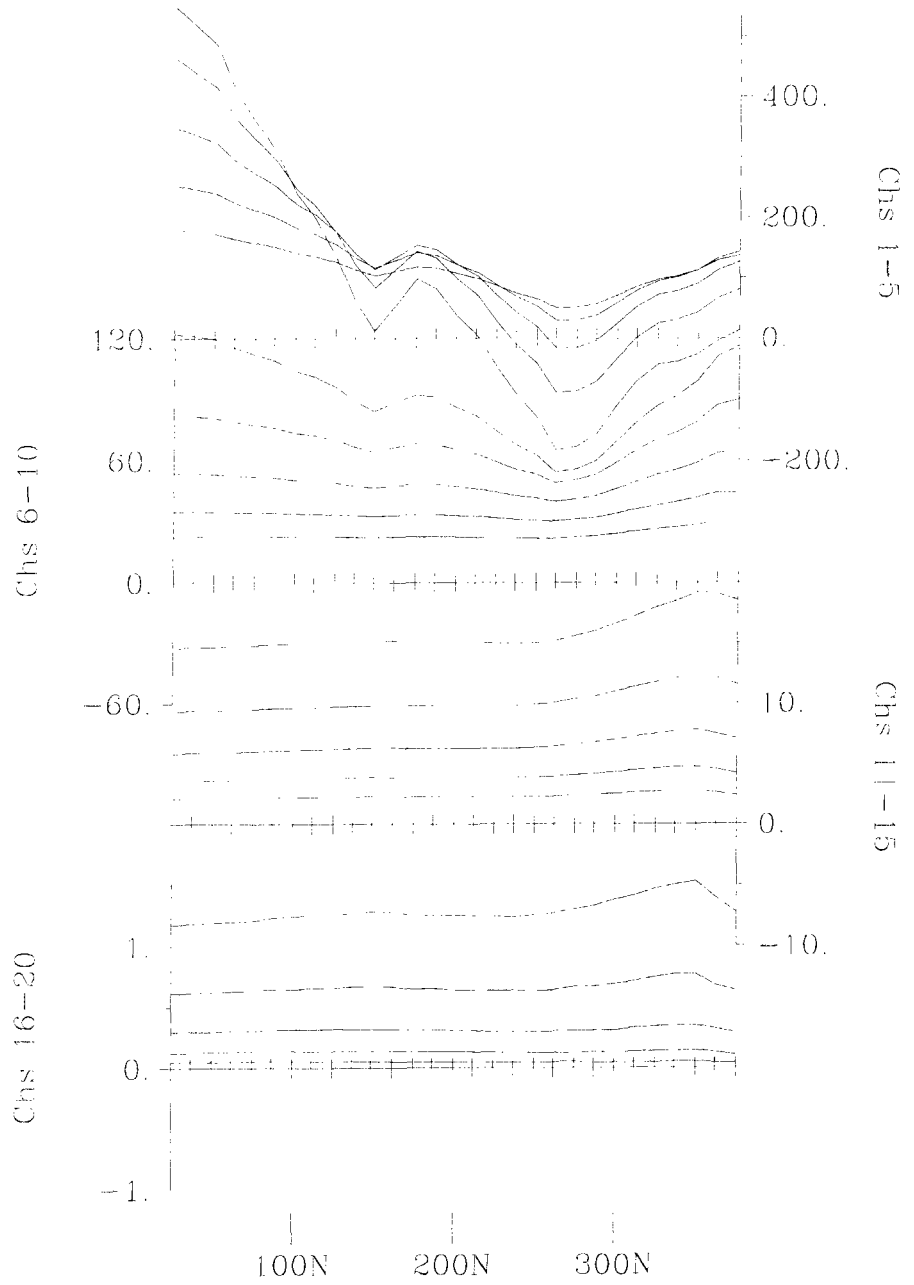
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept. 14, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-300W



Line 300W – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

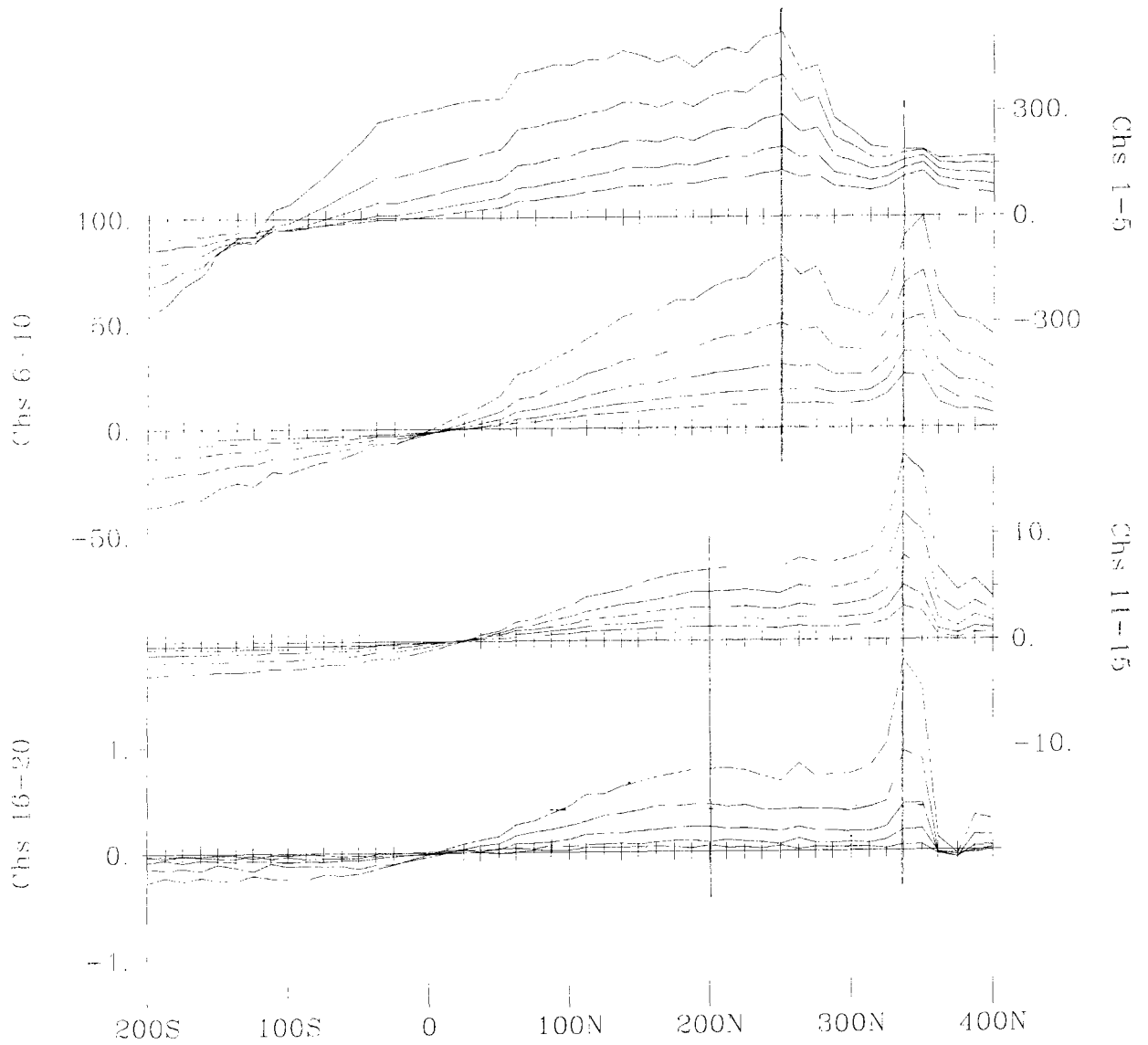
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency.	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept. 14, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-300W



Line 250+00W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

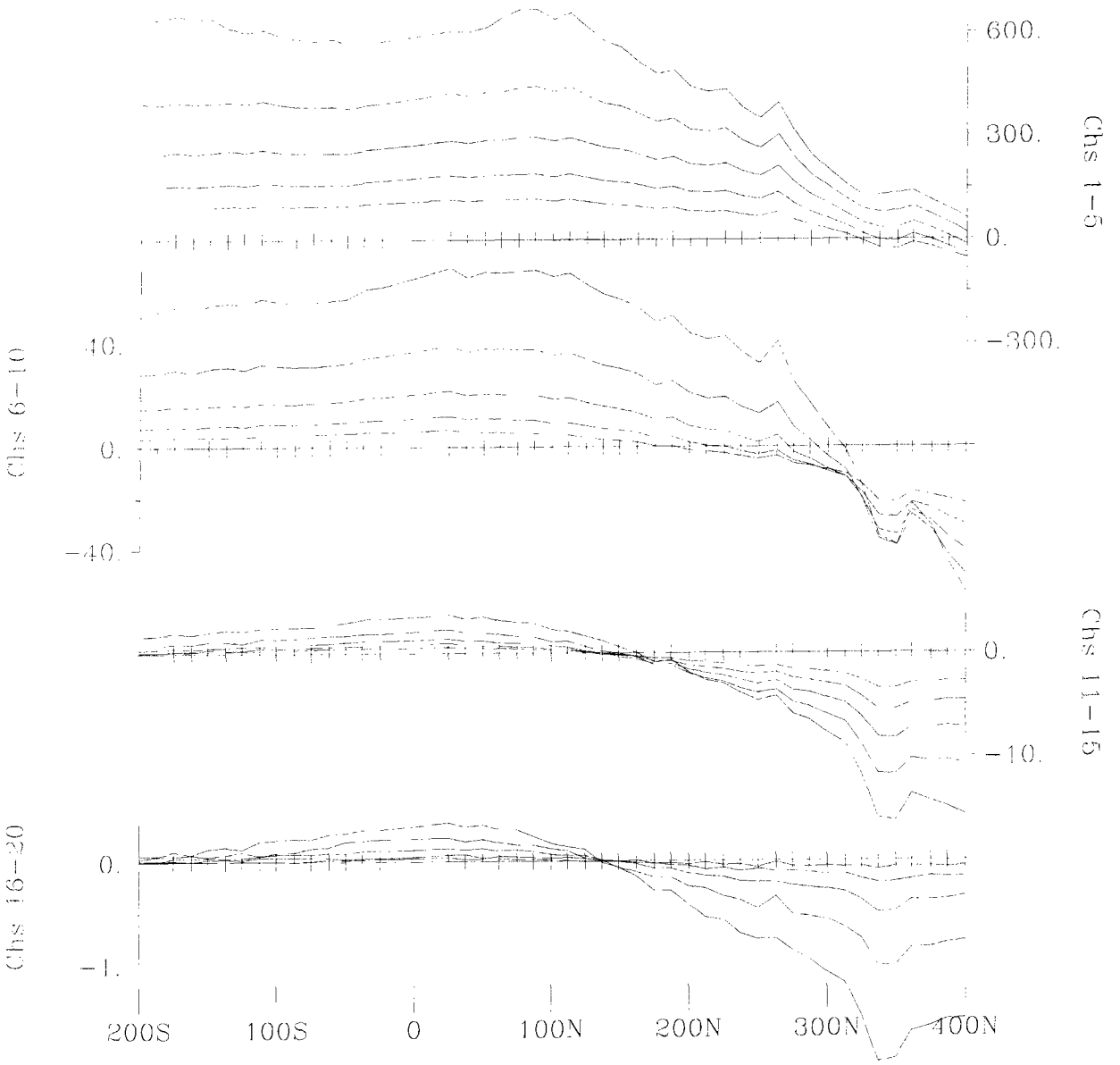
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-250+00W



Line 250+00W – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

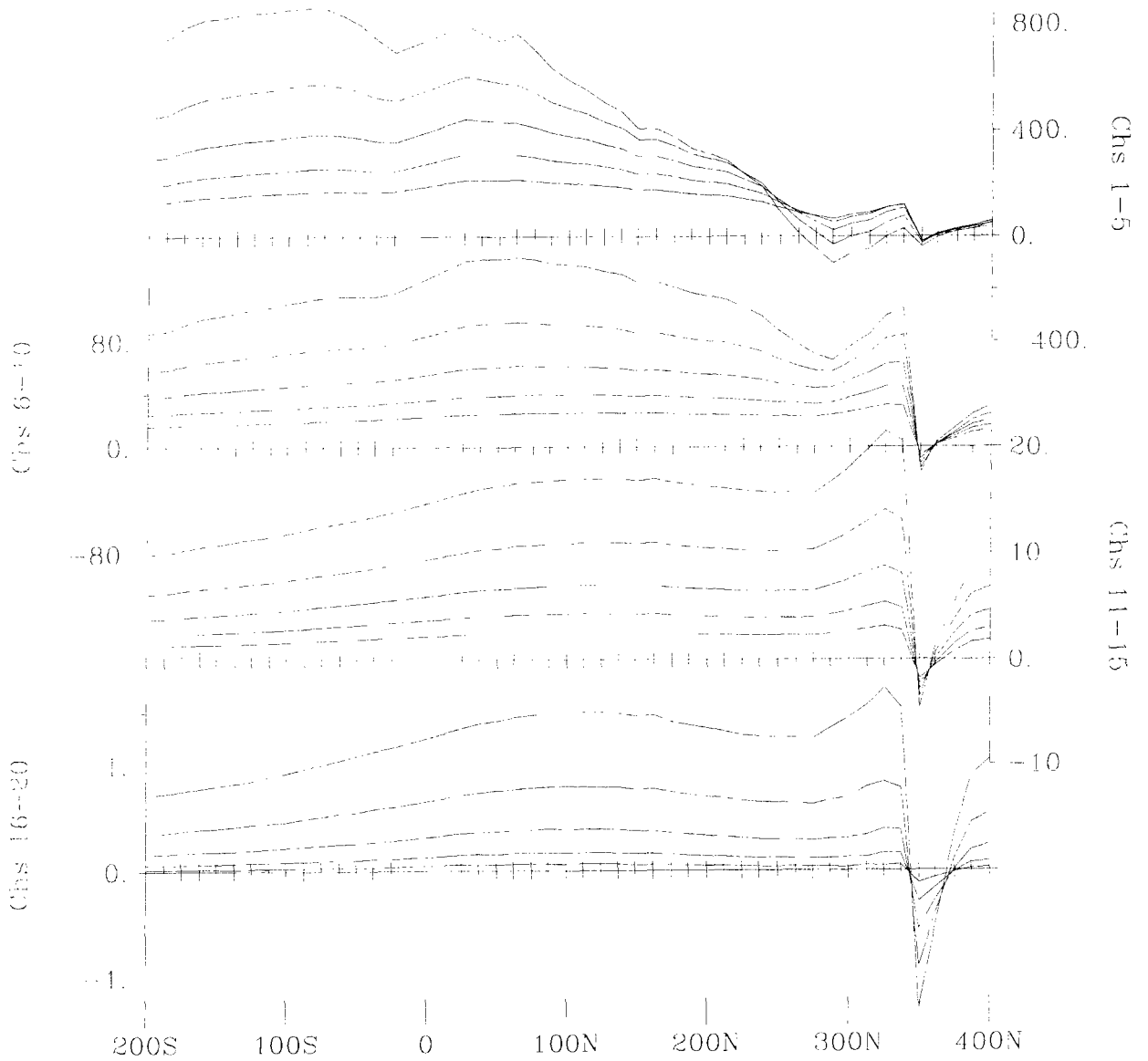
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept. 12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-250+00W



Line 250+00W – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

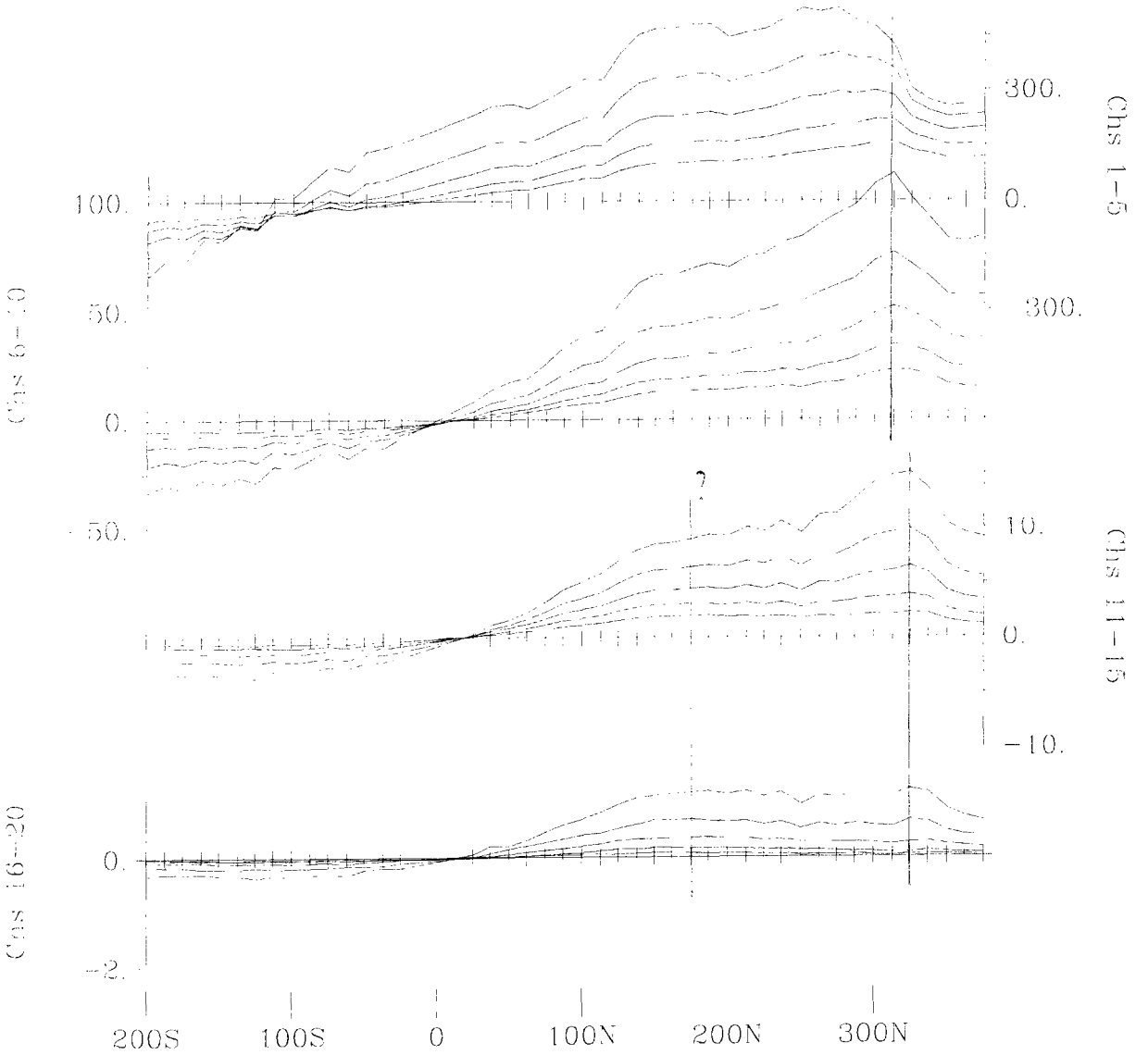
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E,3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-250+00W



Line 200+00W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

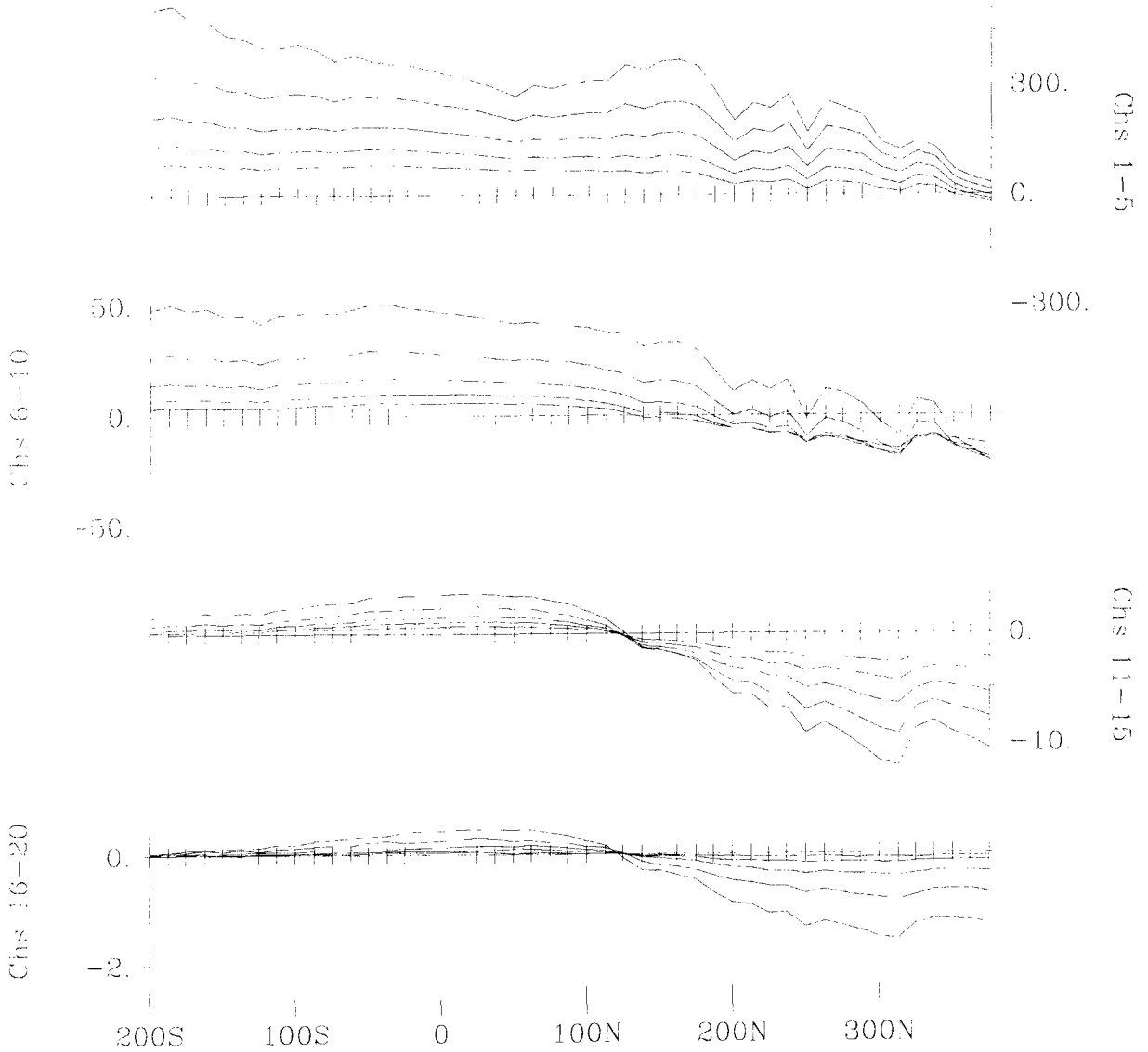
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientotion:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept.12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-200+00W



Line 200+00W – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

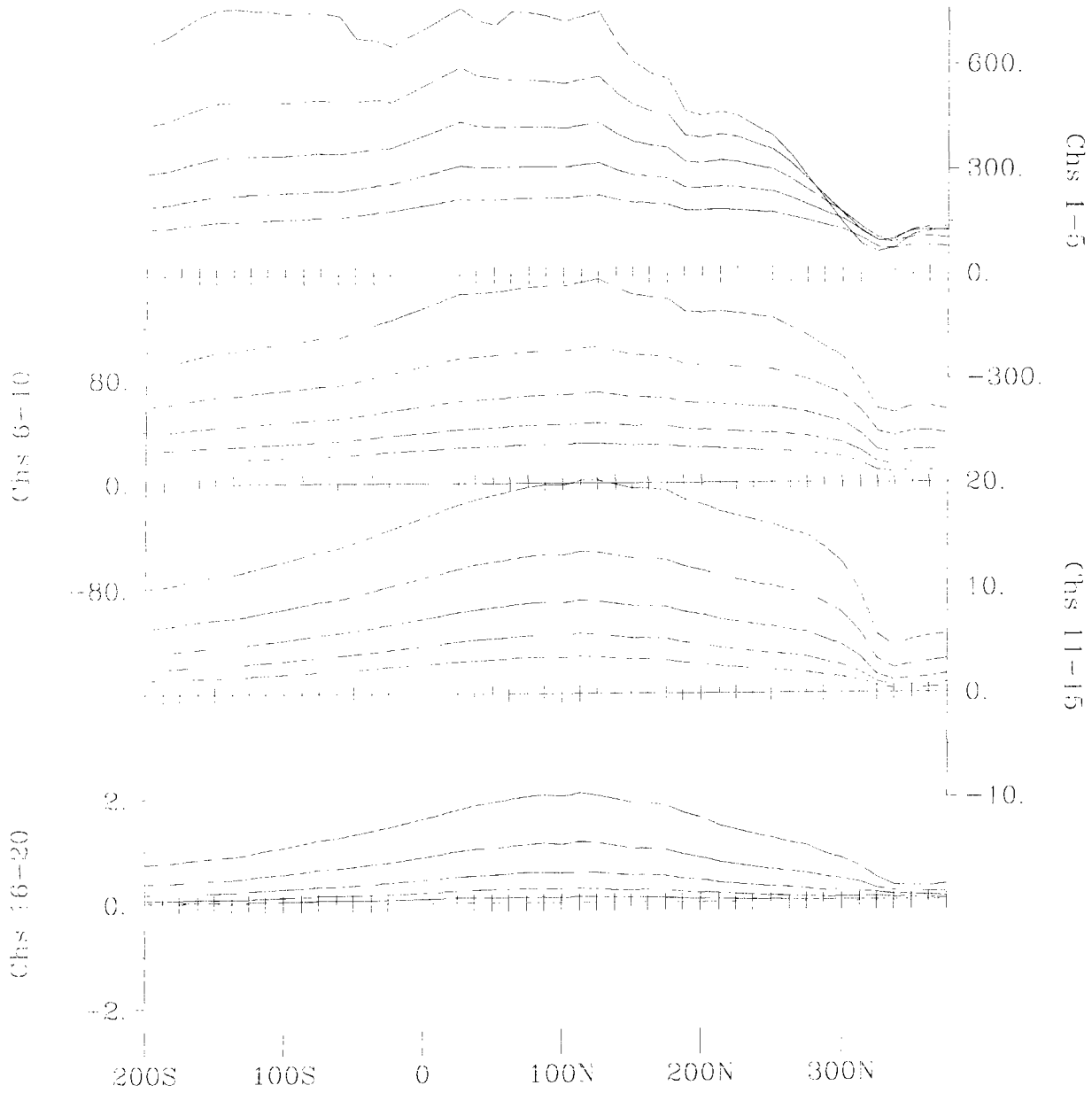
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept. 12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-200+00W



Line 200+00W – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

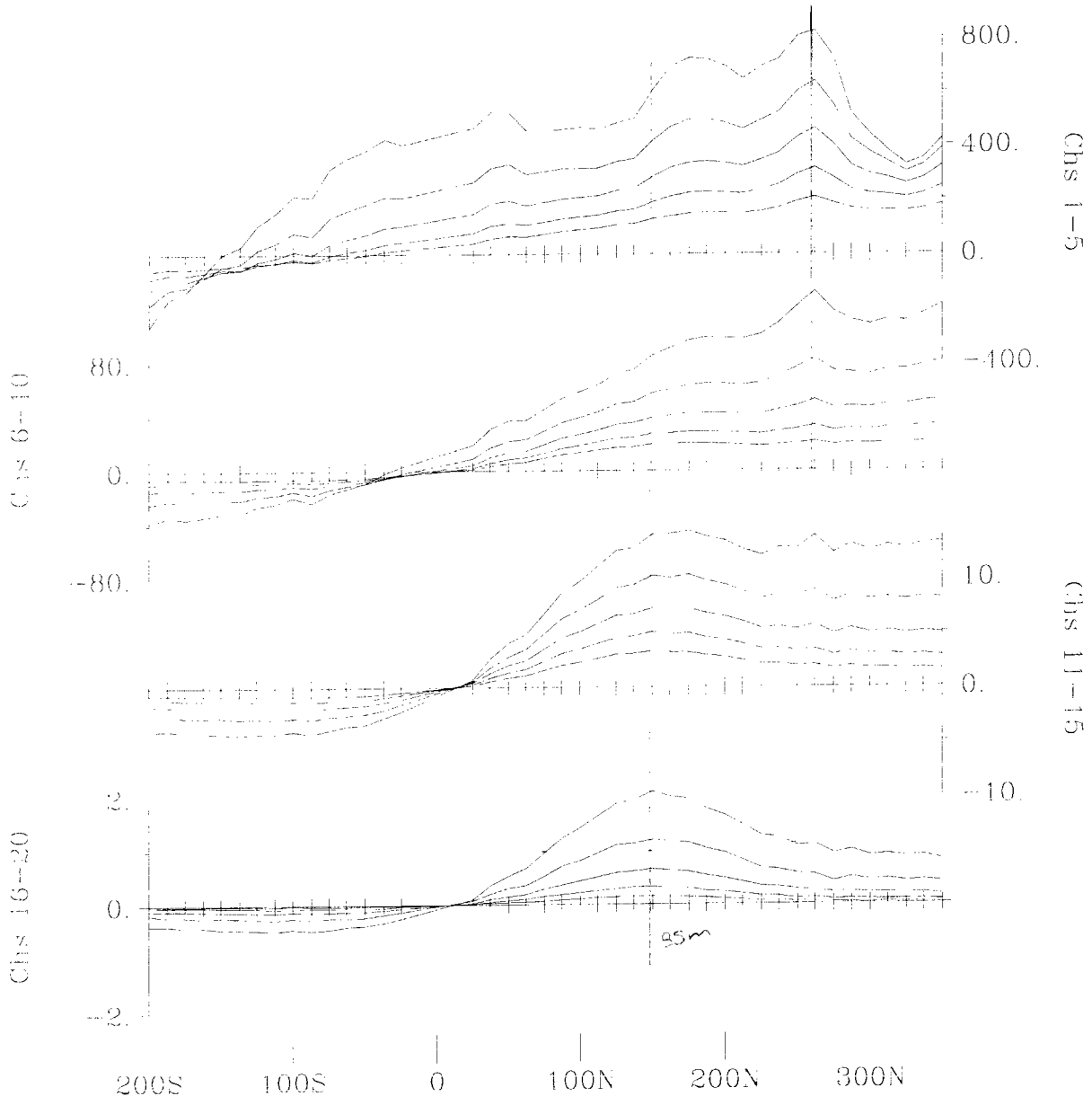
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Locotion:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-200+00W



Line 150+00W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

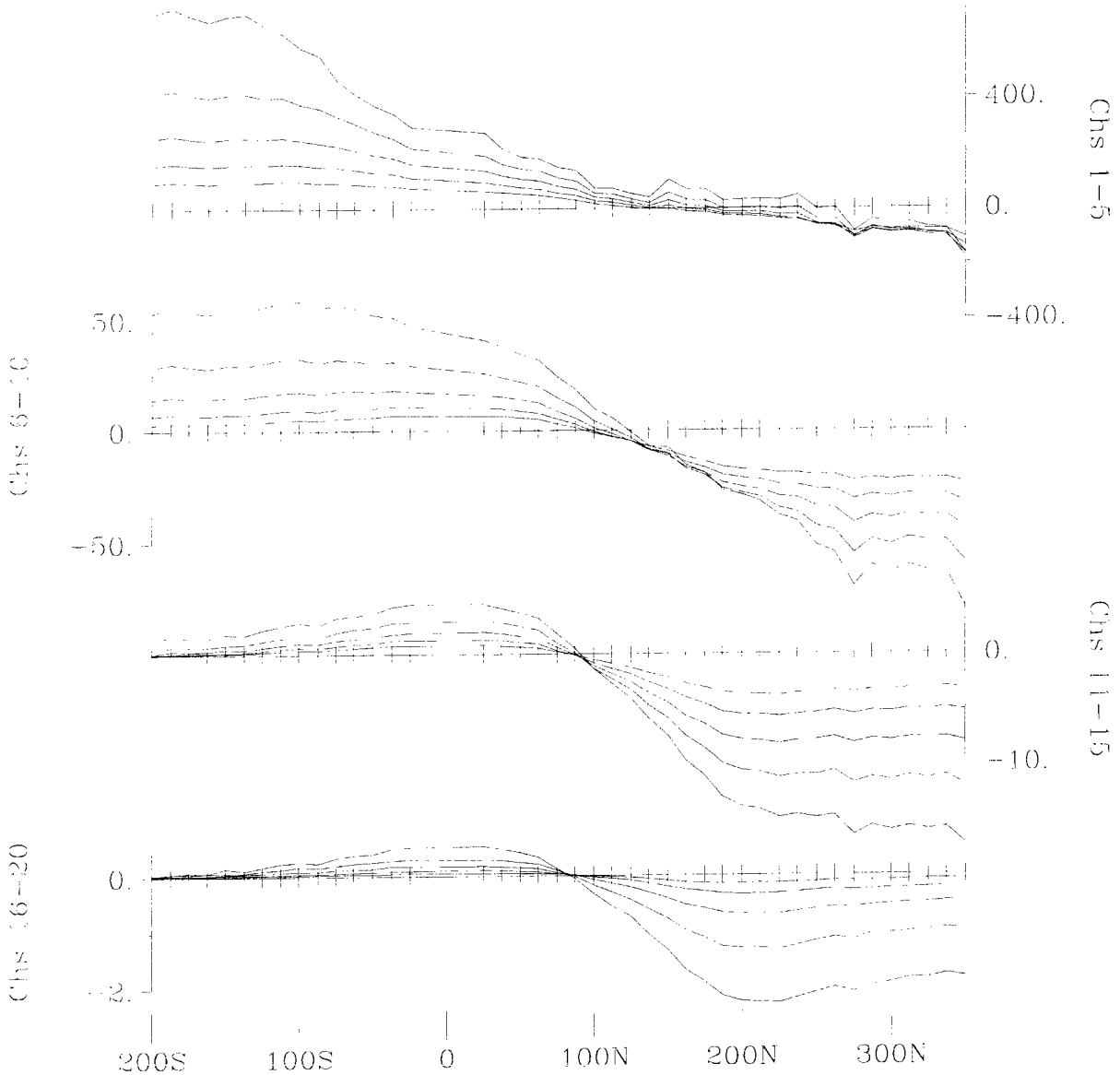
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept.12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-150+00W



Line 150+00W – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

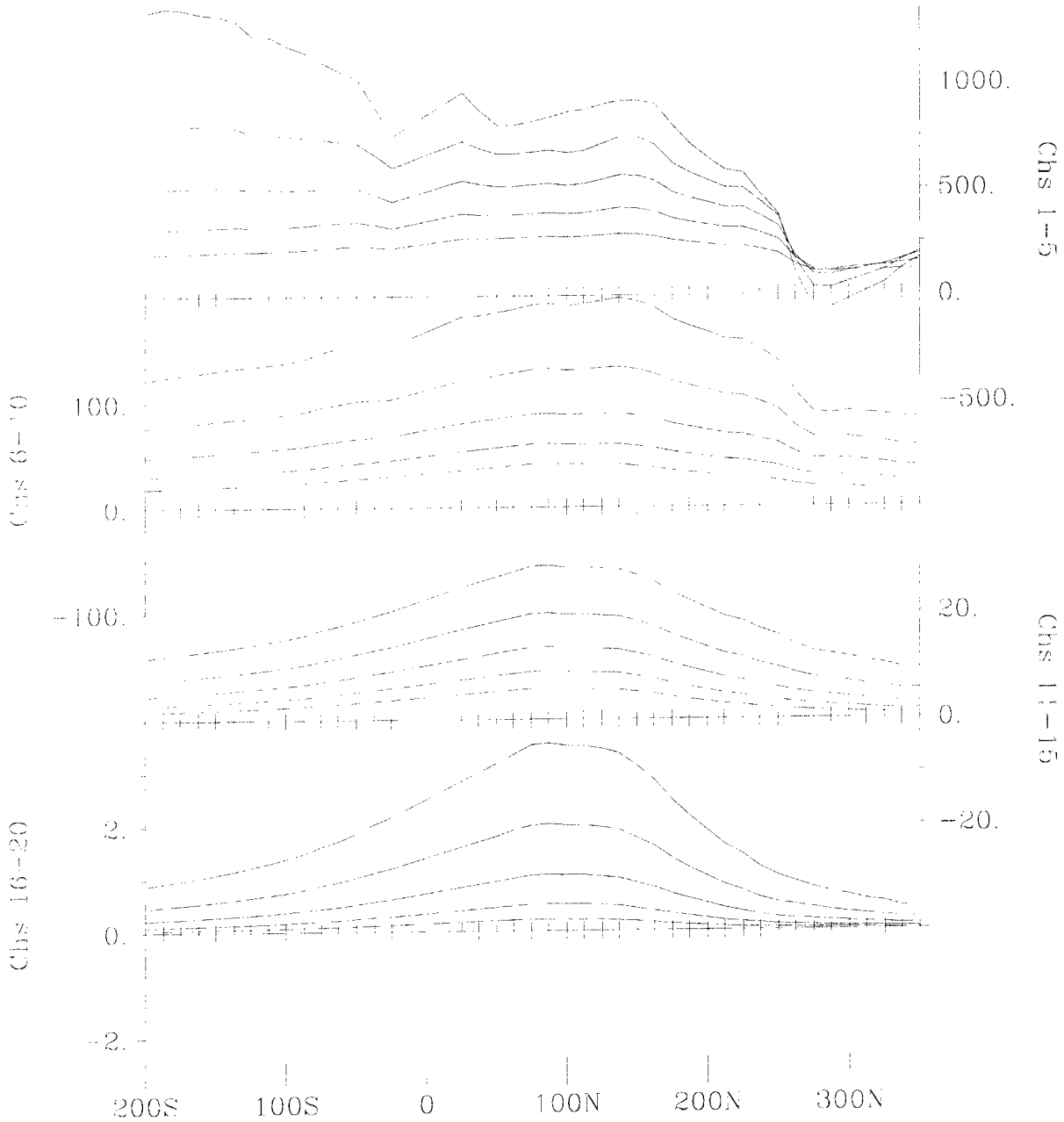
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E,3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept. 12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-150+00W



Line 150+00W – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

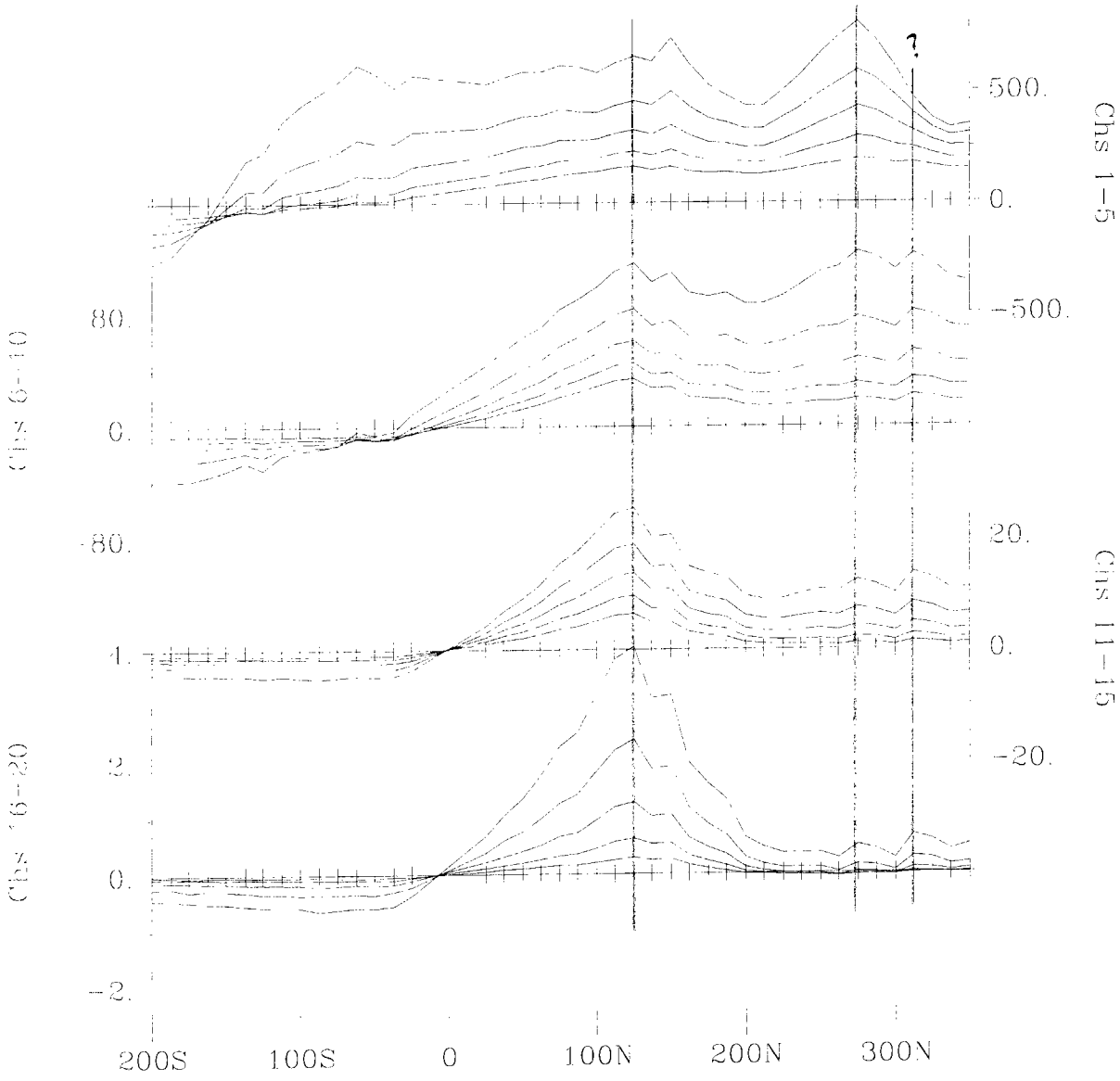
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Tronsmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept.12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-150+00W



Line 100+00W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

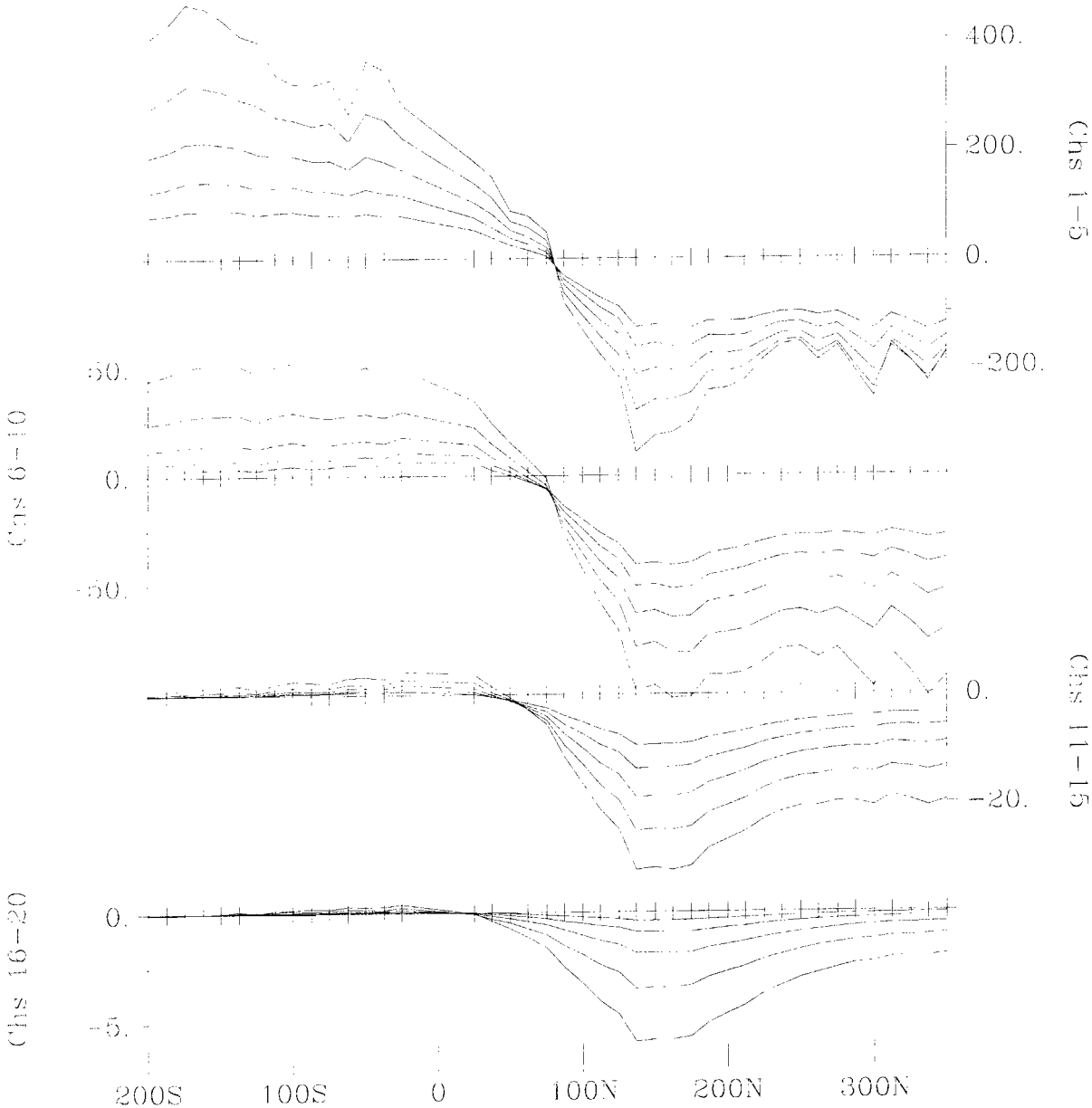
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept.12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-100+00W



Line 100+00W – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

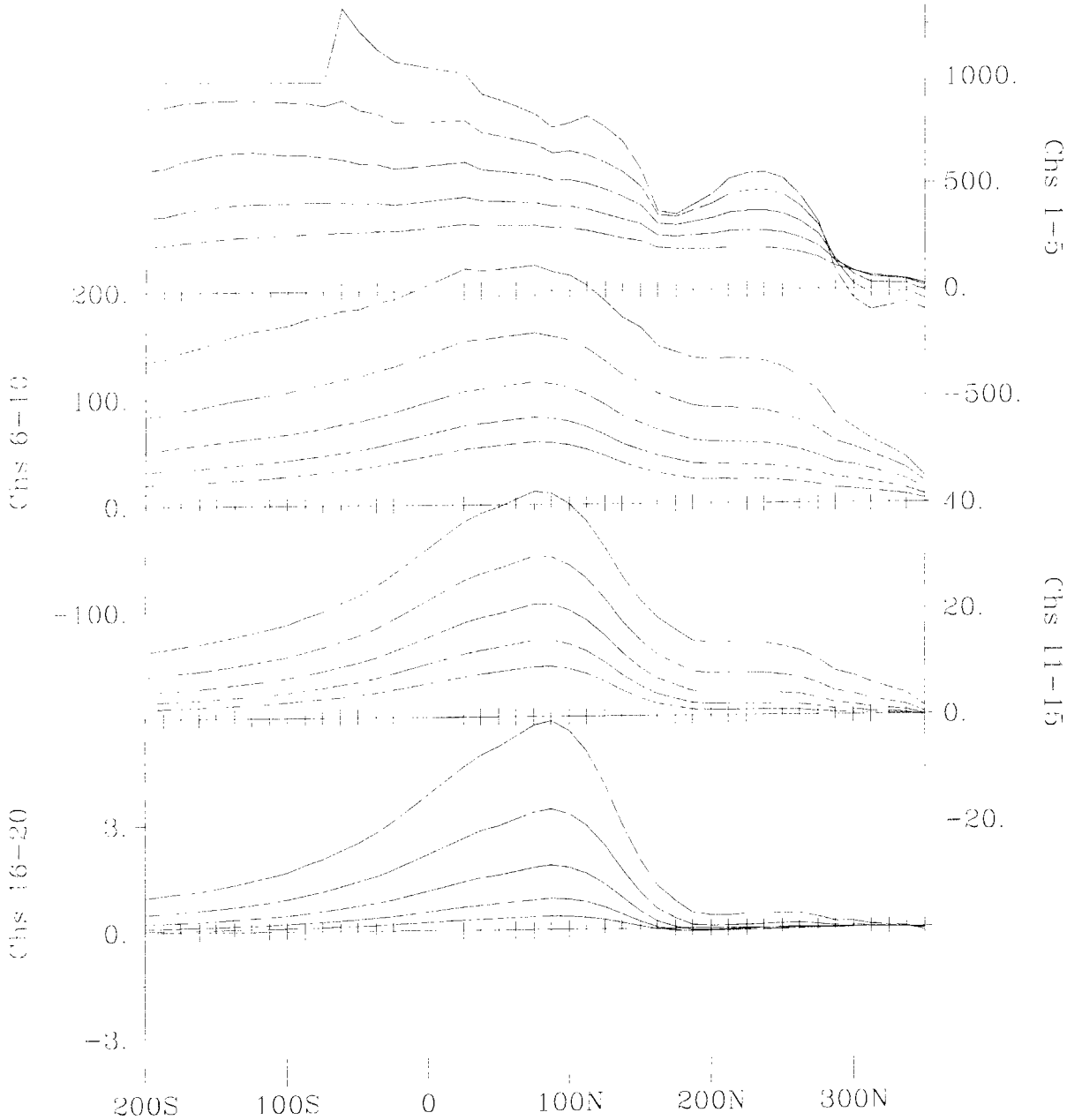
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept.12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-100+00W



Line 100+00W – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

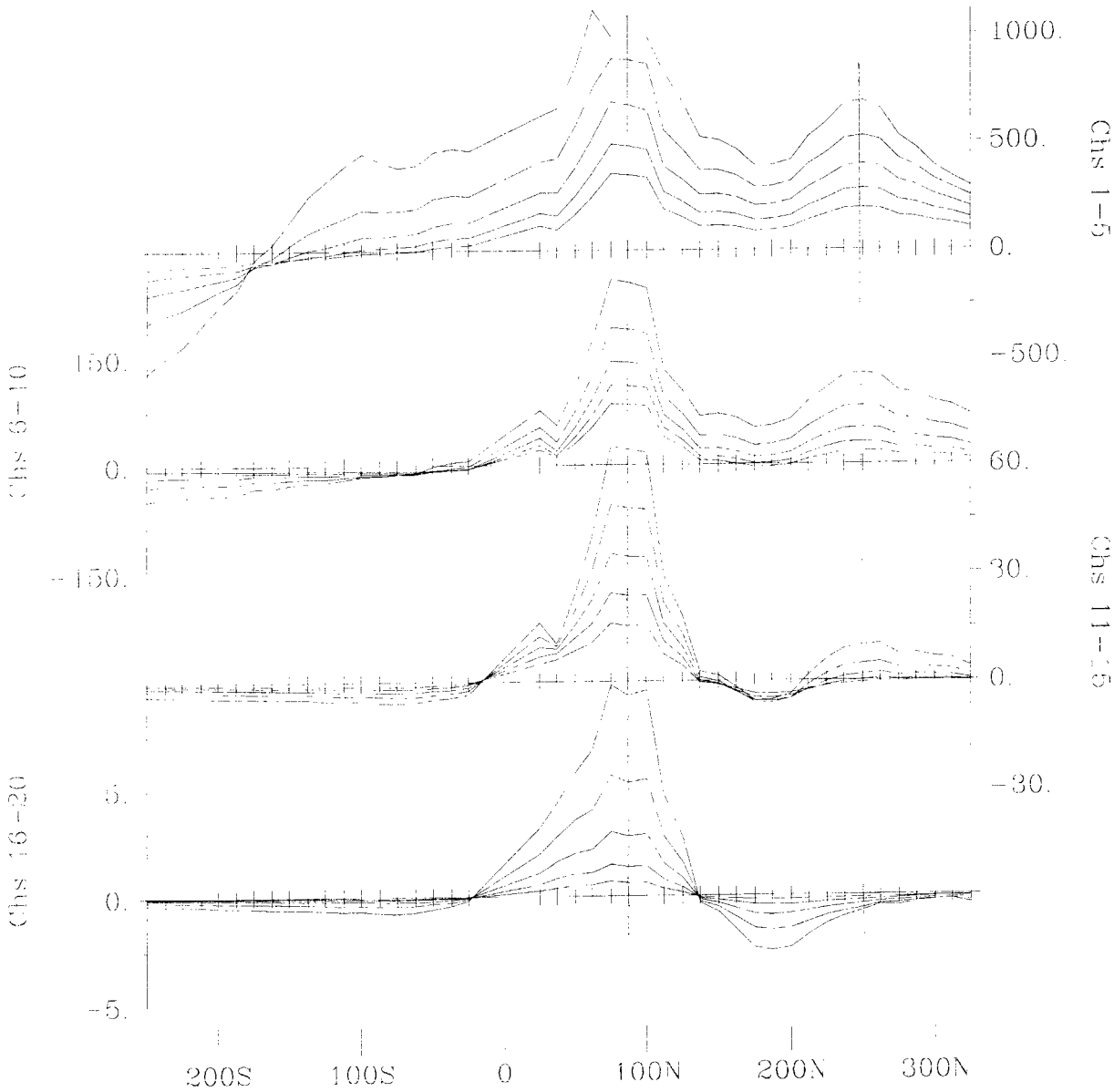
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept.12, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-100+00W



Line 50+00W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

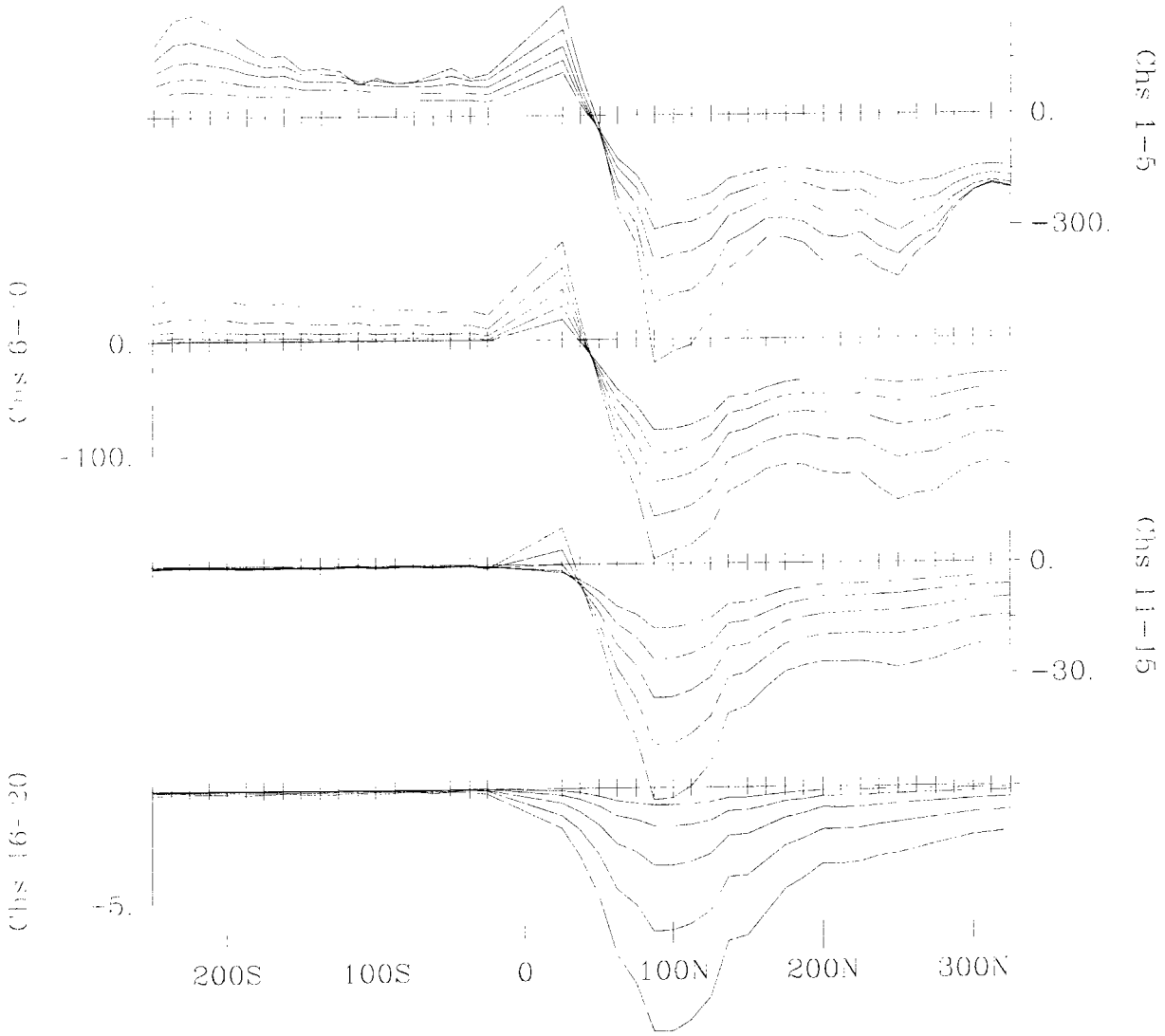
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.11, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-50+00W



Line 50+00W – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

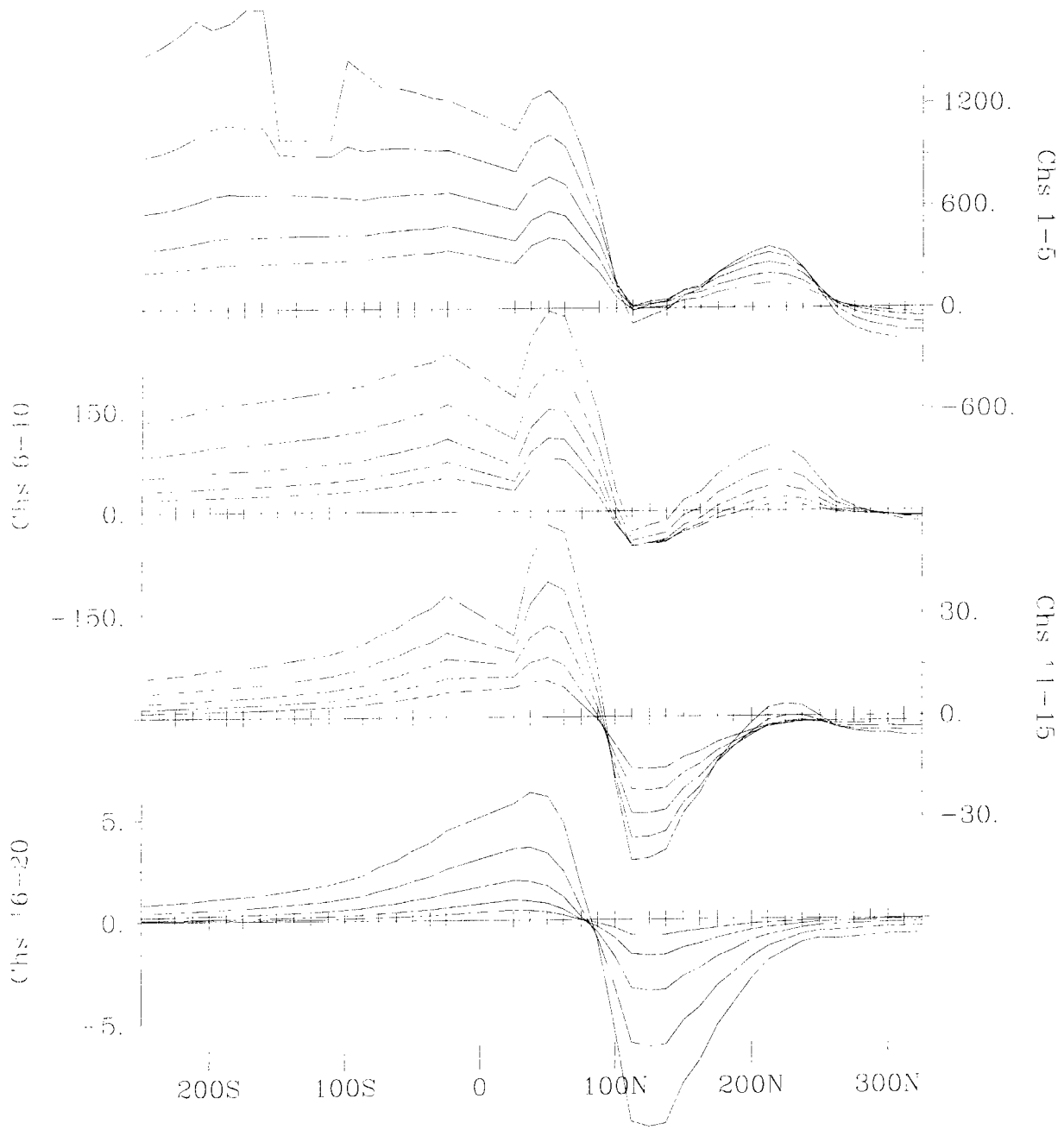
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept.11, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-50+00W



Line 50+00W – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

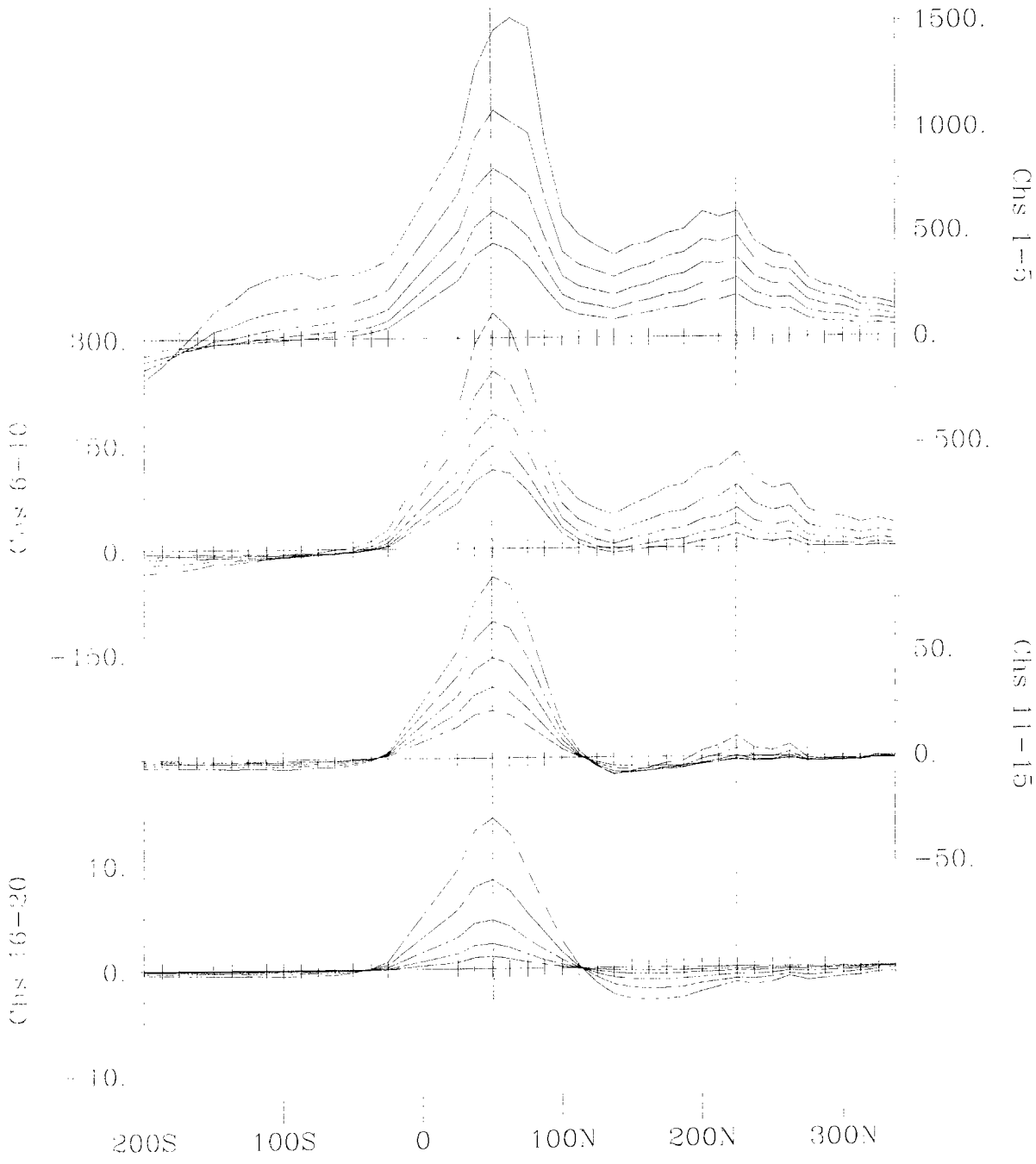
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.11, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-50+00W



Line 00+00E – X Component

LOOP 1

Scale 1:5000

100 0 100 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

Secondary Electromagnetic Field (dB/dt)

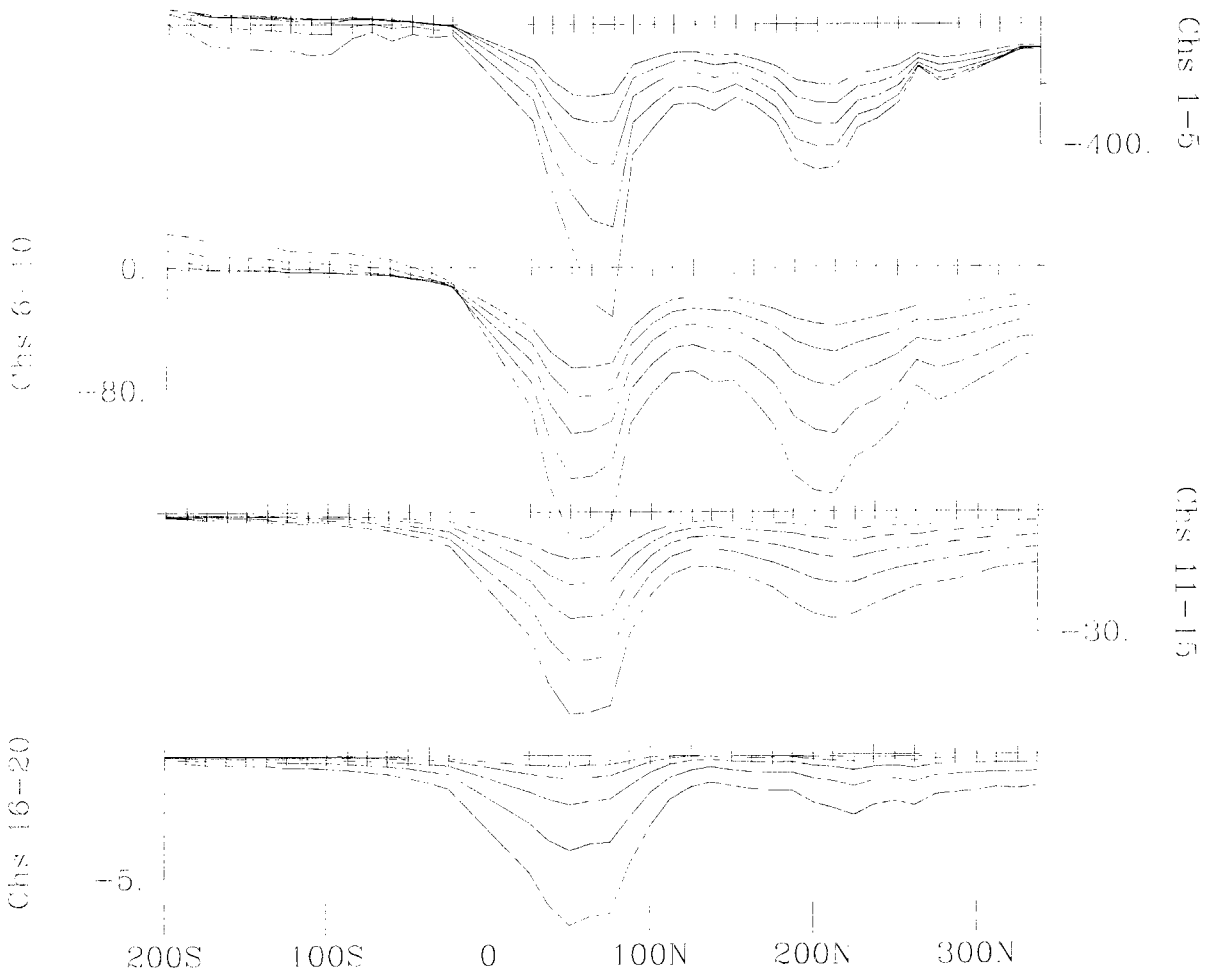
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west

Survey Date:	Sept. 07, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-00+00E



Line 00+00E – Y Component

LOOP 1

Scale 1:5000

100 0 100 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

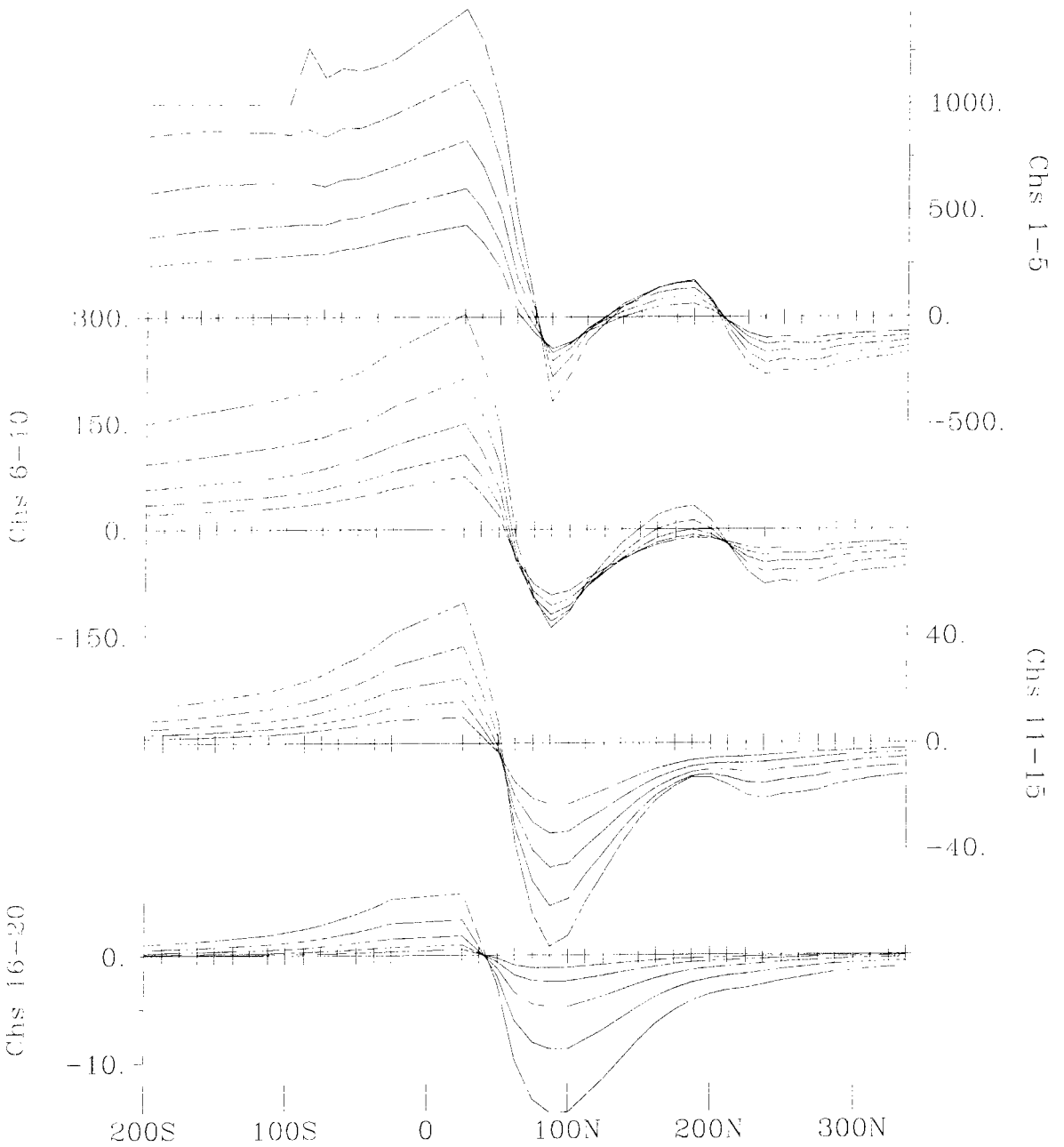
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.07, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-00+00E



Line 00+00E – Z Component

LOOP 1

Scale 1:5000

100 0 100 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

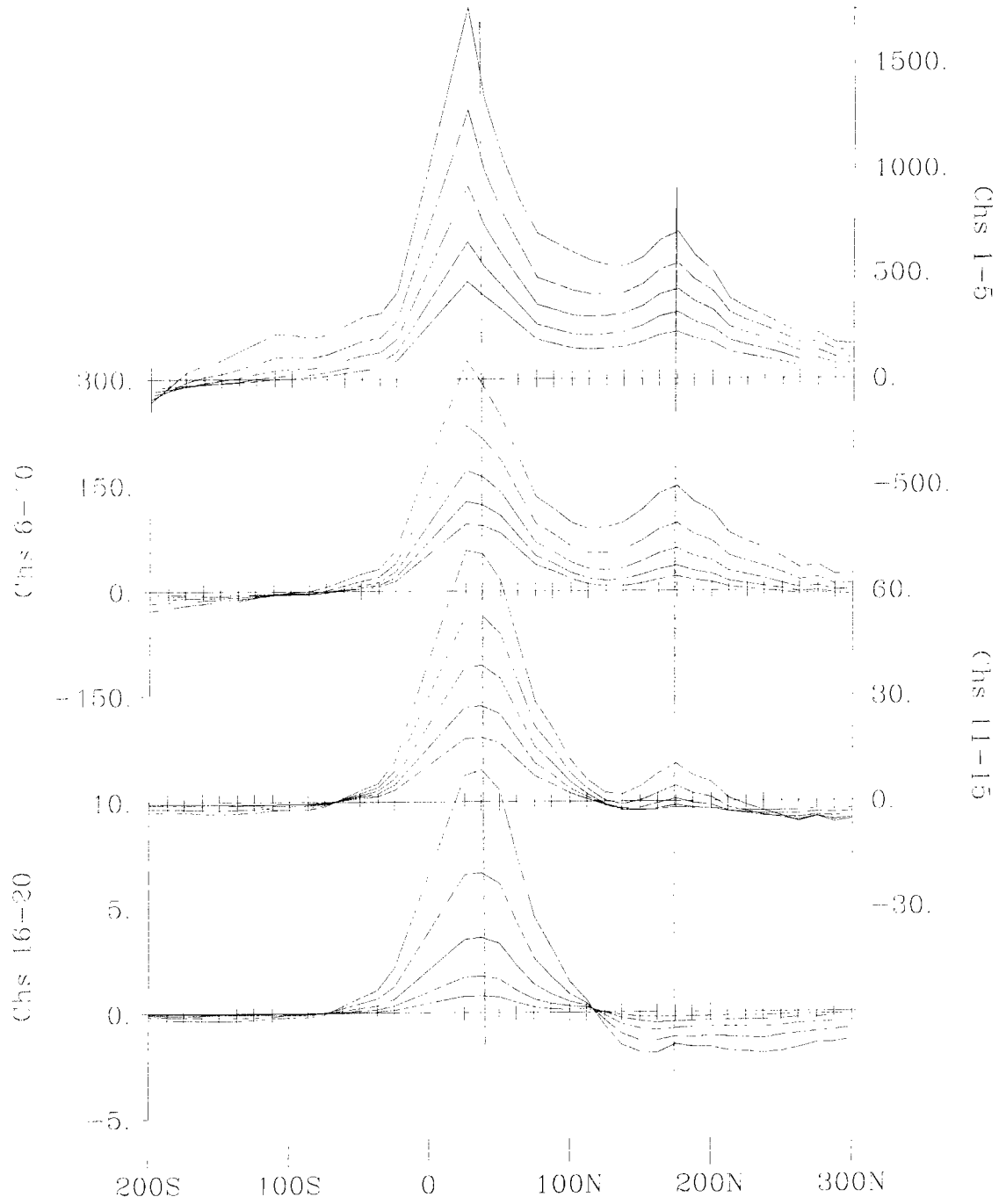
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size.	300m X 550m
Tx Loop Location:	L3+00W-2+50E,3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.07, 2007
Instrumentation:	Rx = Digital Protem (3x20 Chonnels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-00+00E



Line 50+00E – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

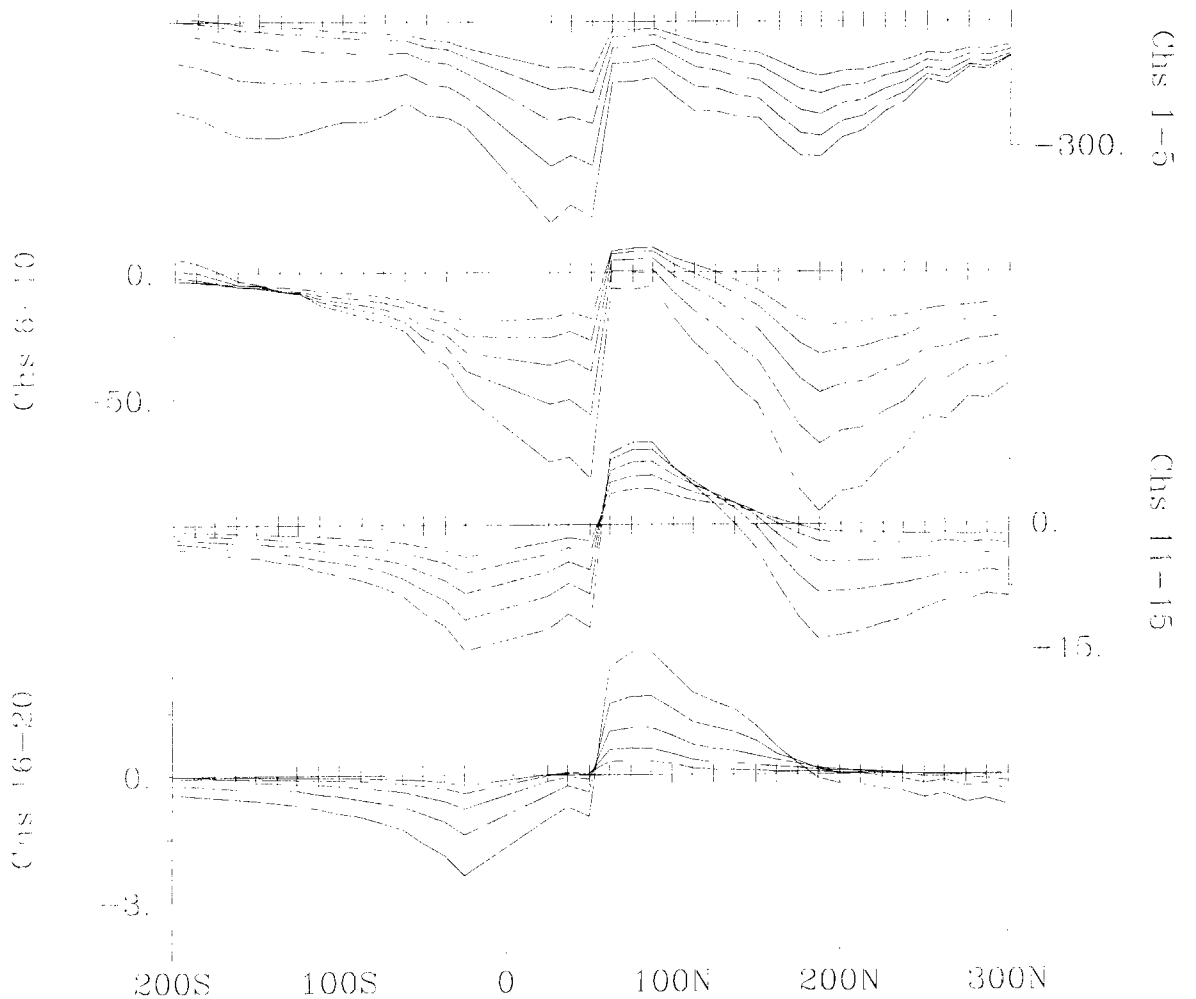
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept.06, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-50+00E



Line 50+00E – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

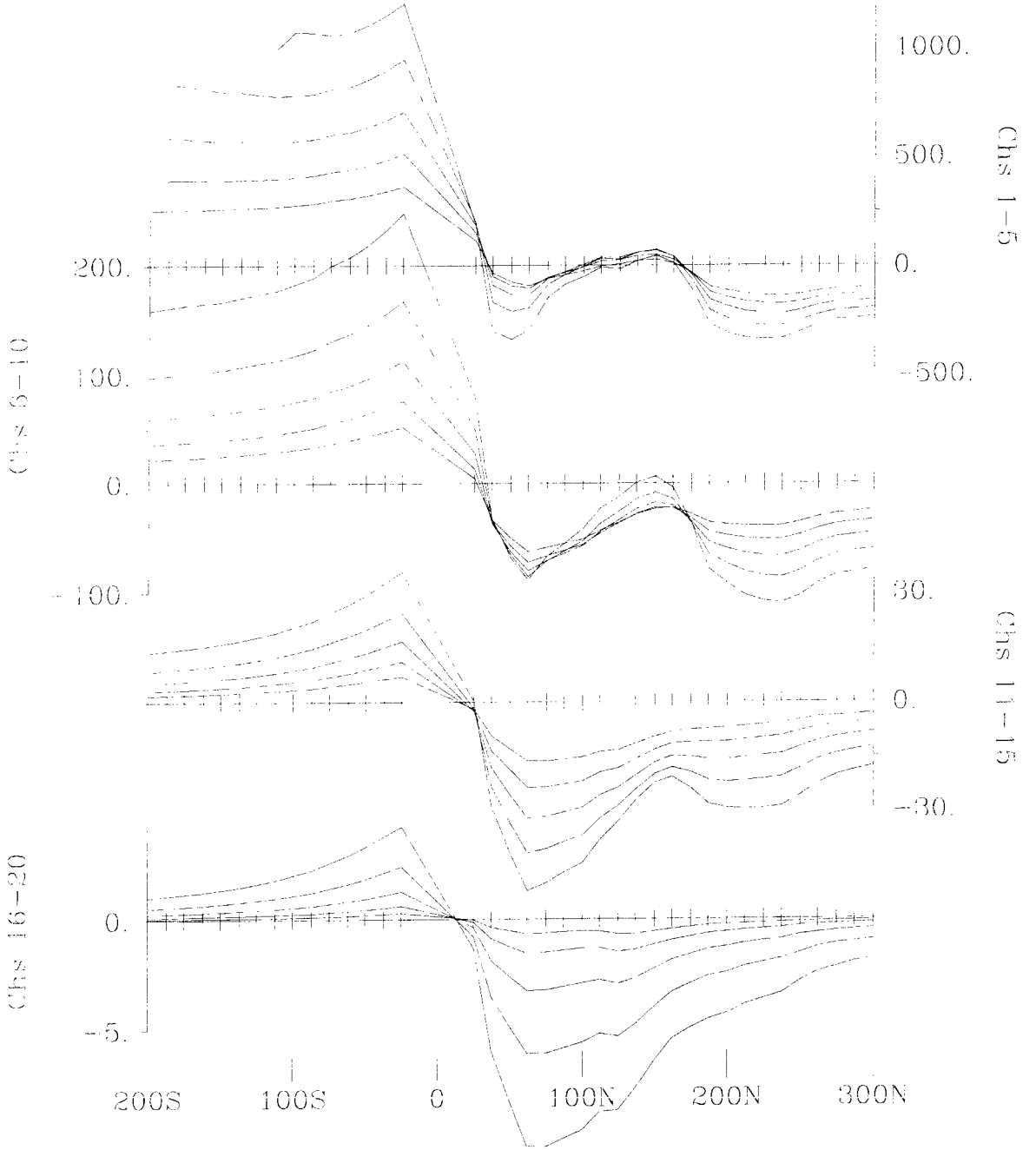
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.06, 2007
Instrumentation:	Rx = Digital Pratem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-50+00E



Line 50+00E – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

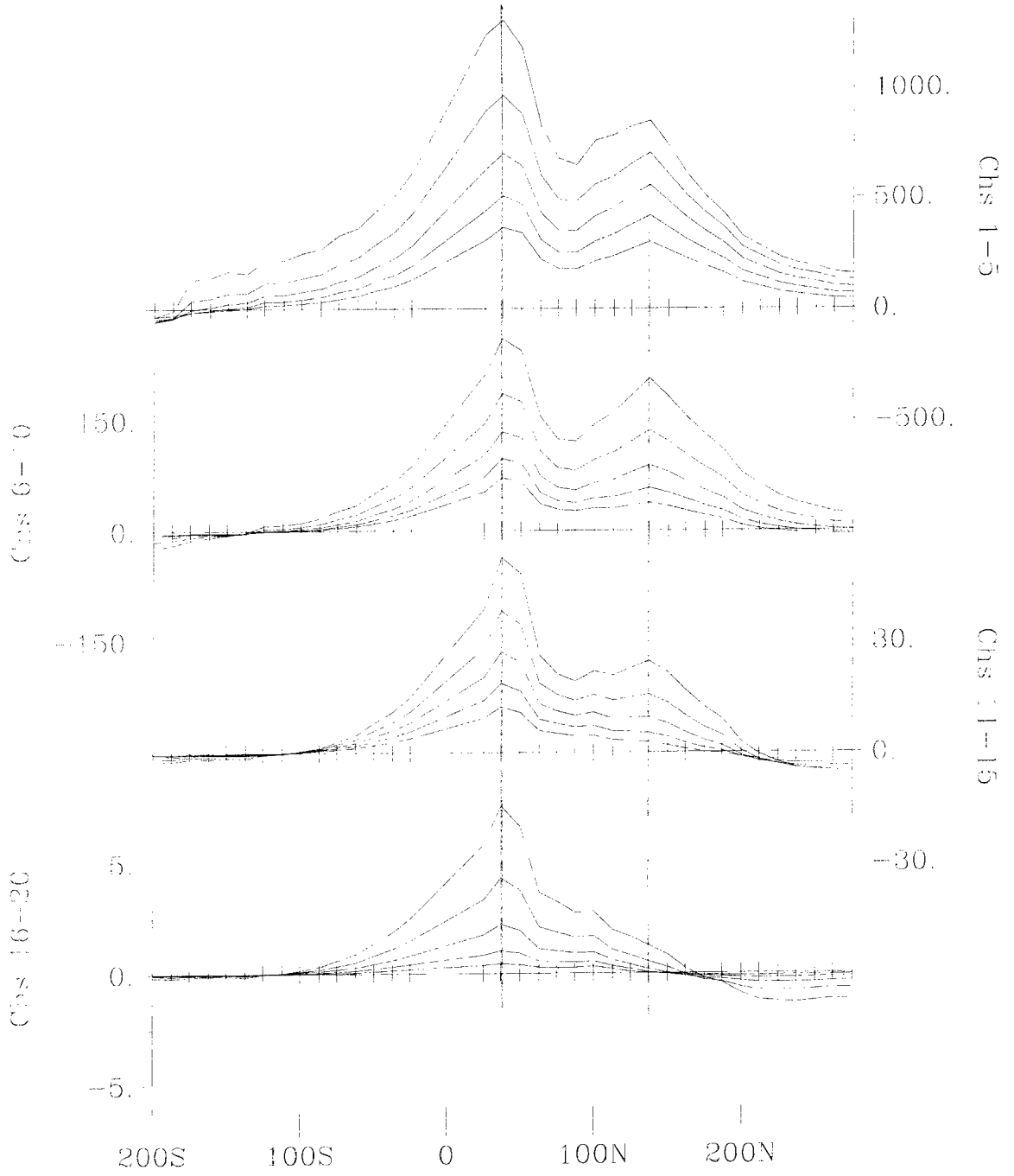
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.06, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-50+00E



Line 100+00E – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

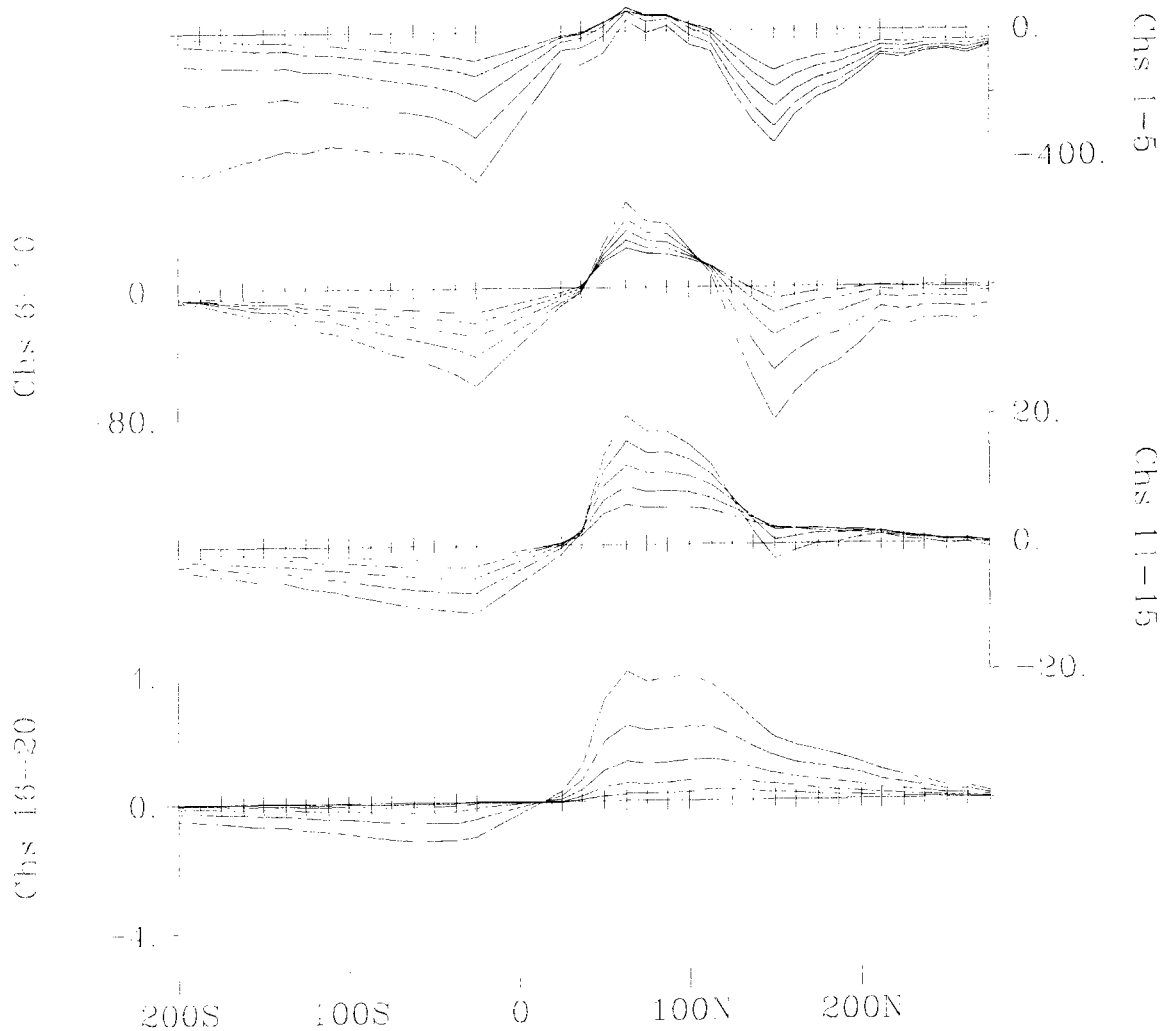
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.08, 2007
Instrumentotion:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-100+00E



Line 100+00E – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

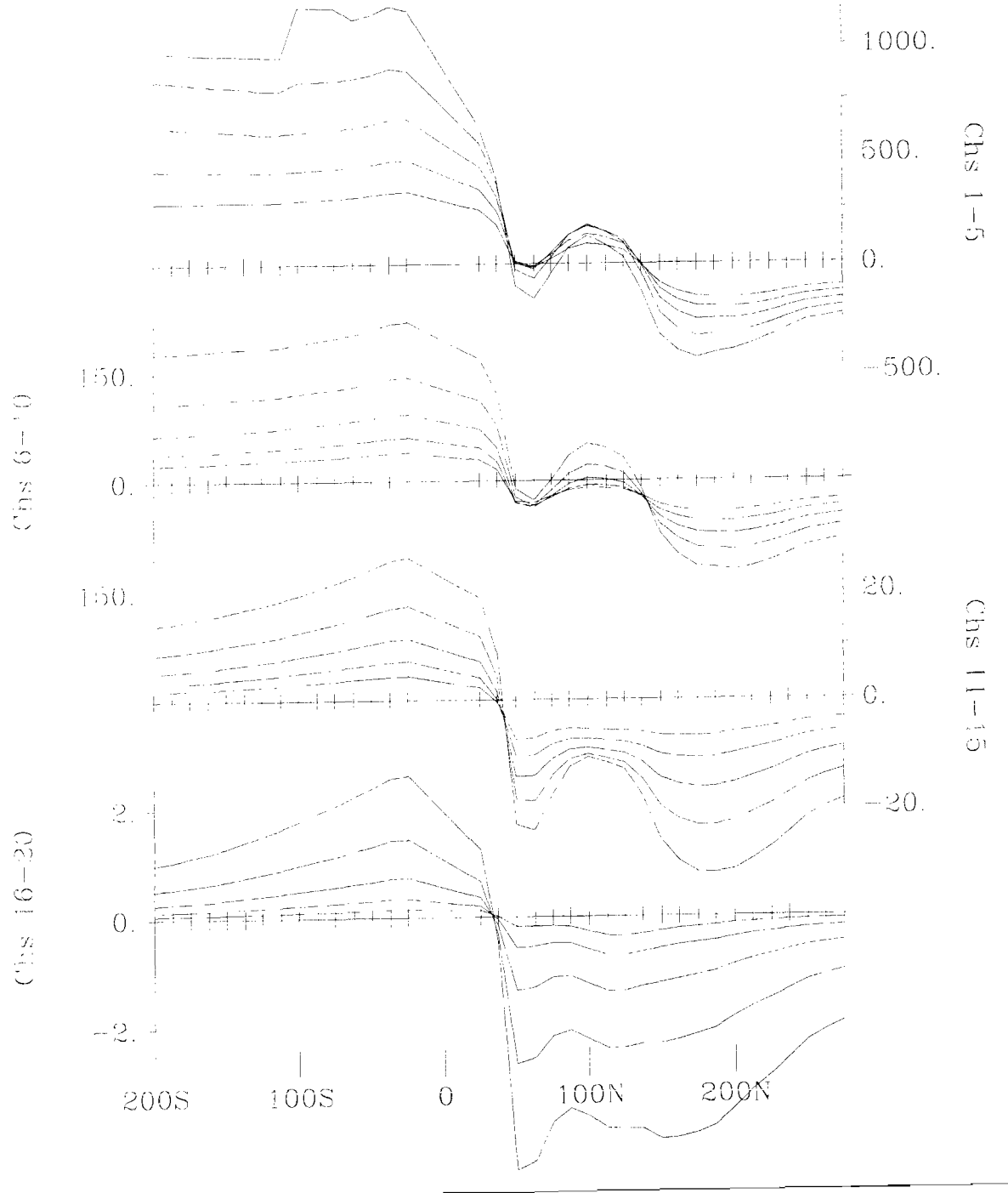
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.08, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-100+00E



Line 100+00E – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

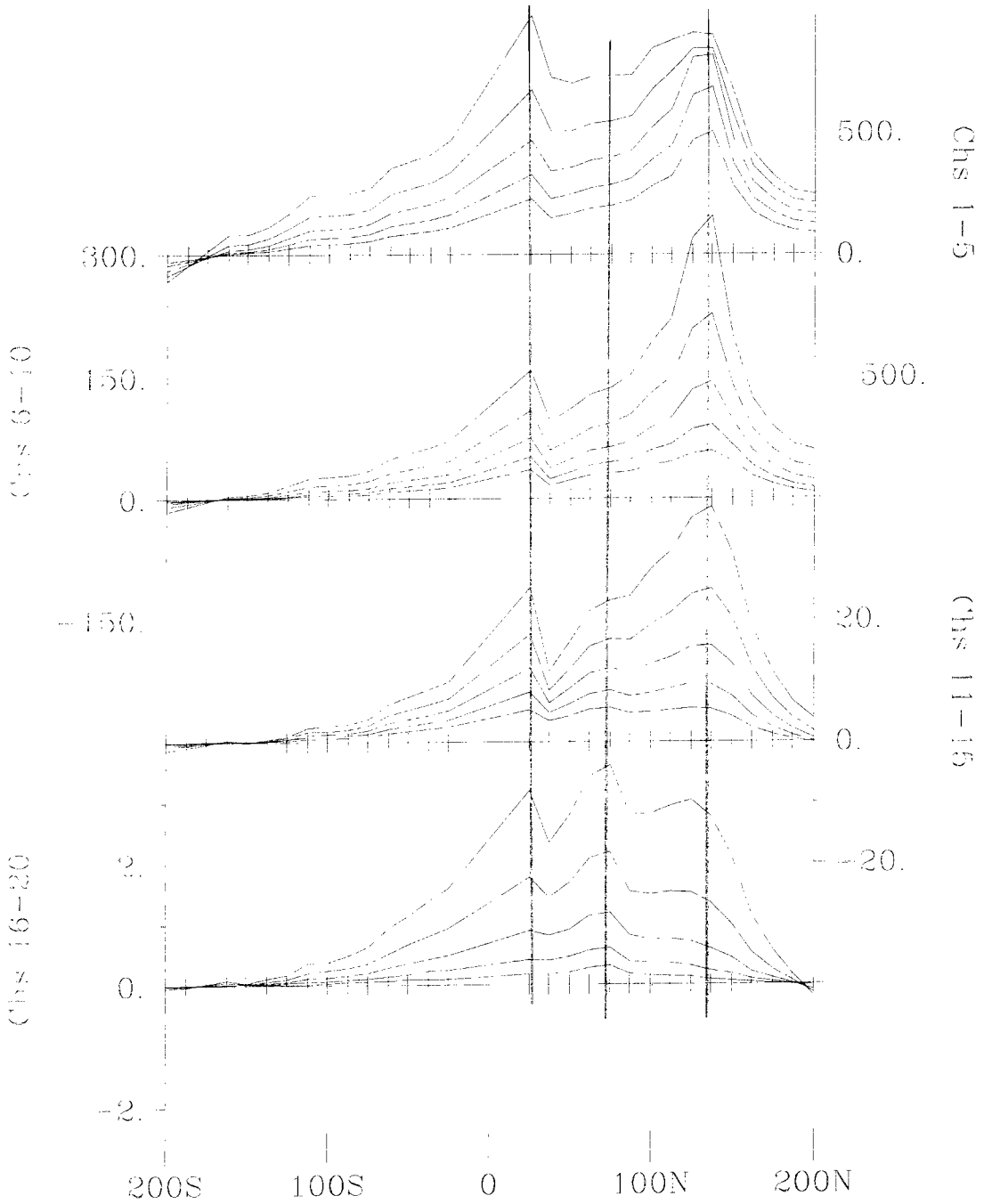
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.08, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-100+00E



Line 150+00E – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

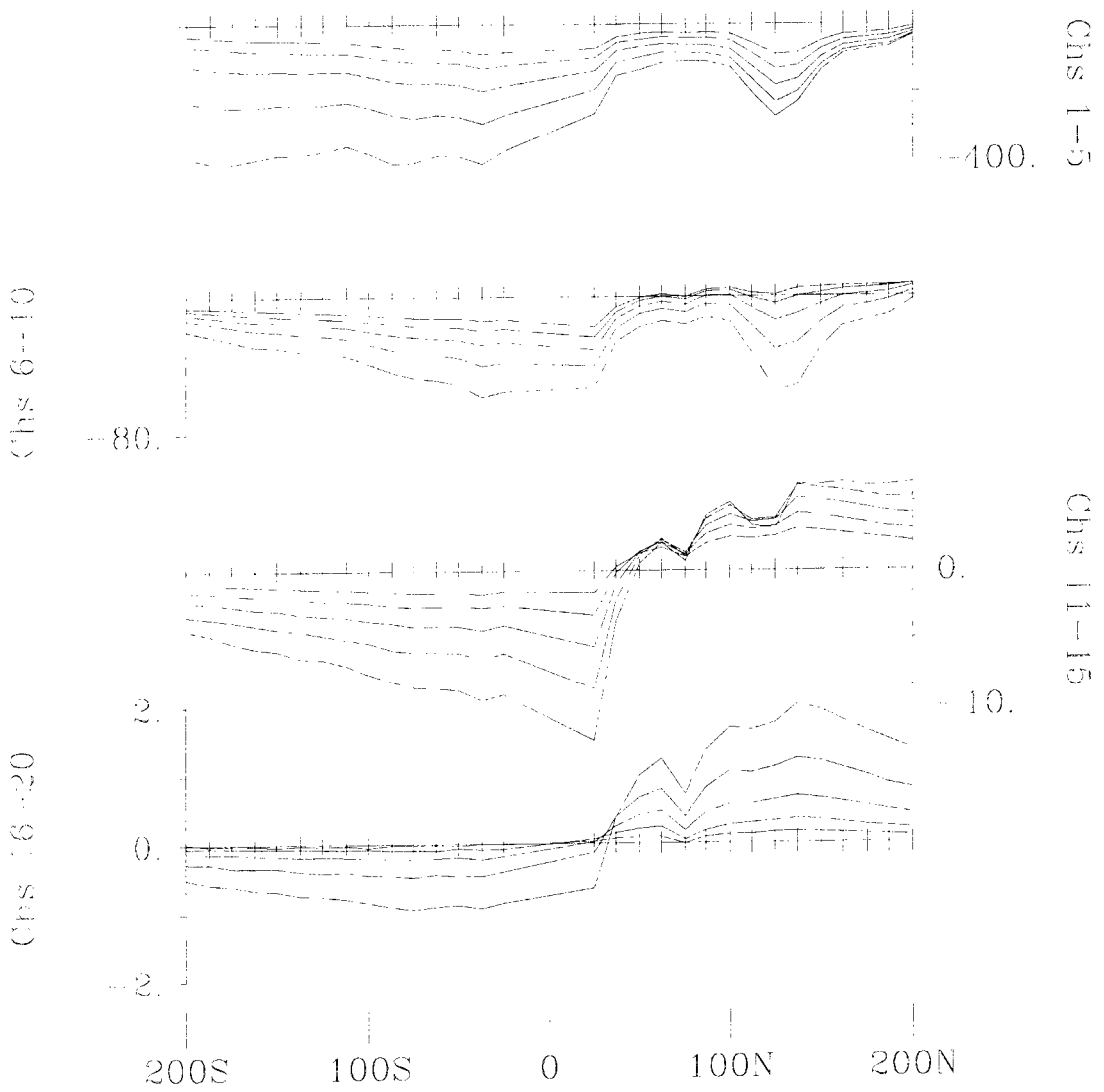
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.08, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-150+00E



Line 150+00E – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

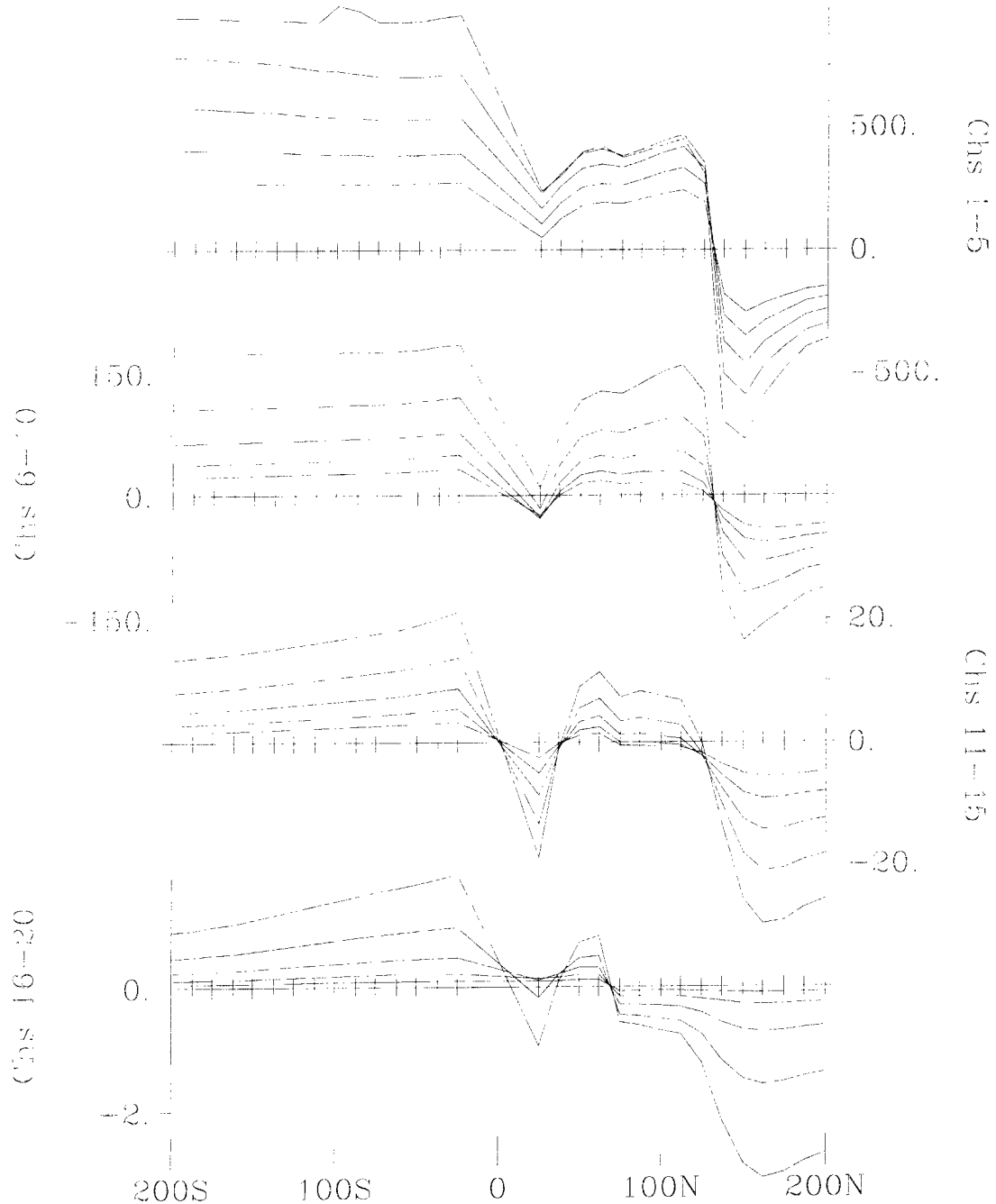
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Intervol:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.08, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-150+00E



Line 150+00E – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

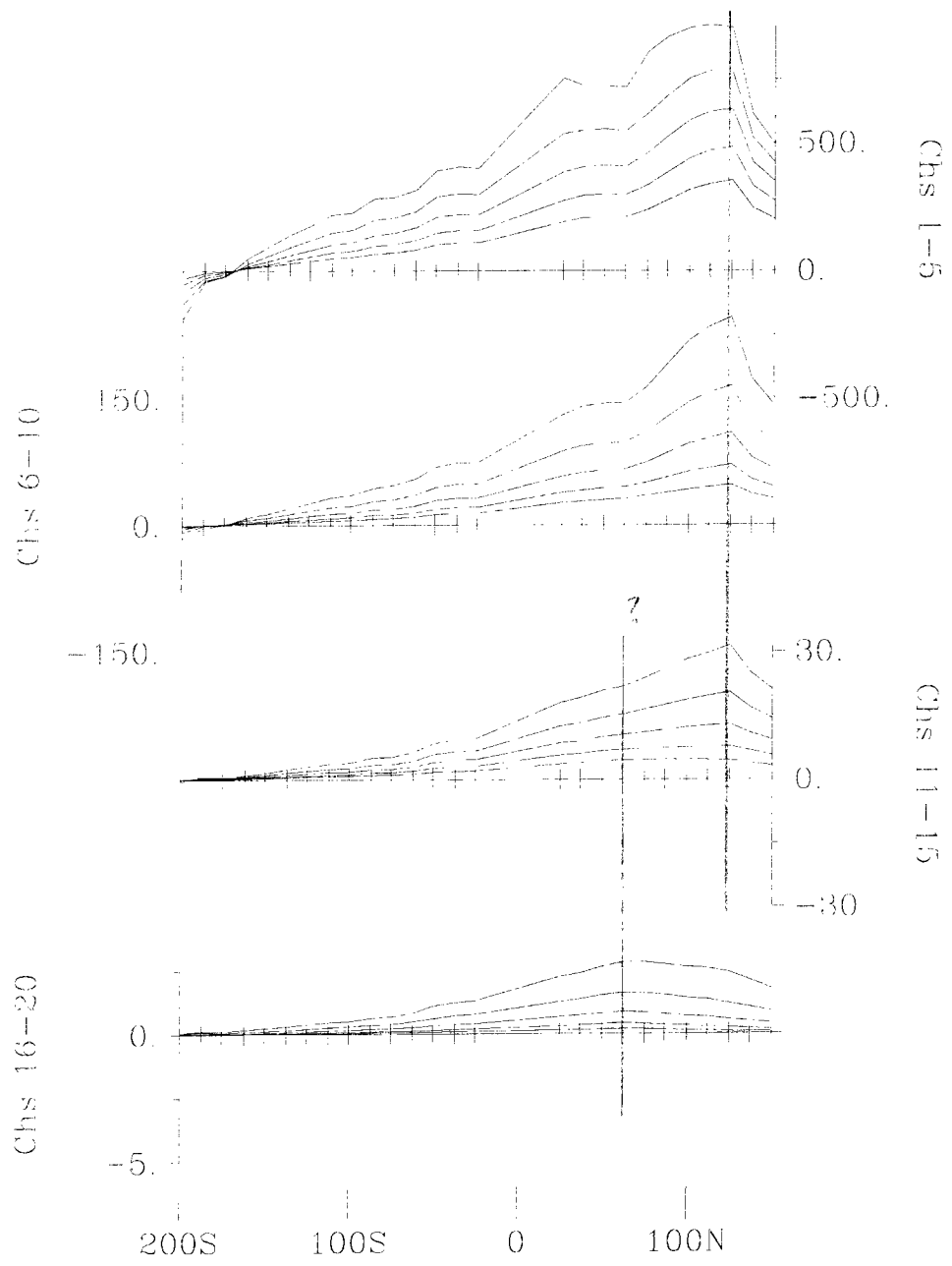
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientotion:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.08, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-150+00E



Line 200+00E – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

Secondary Electromagnetic Field (dB/dt)

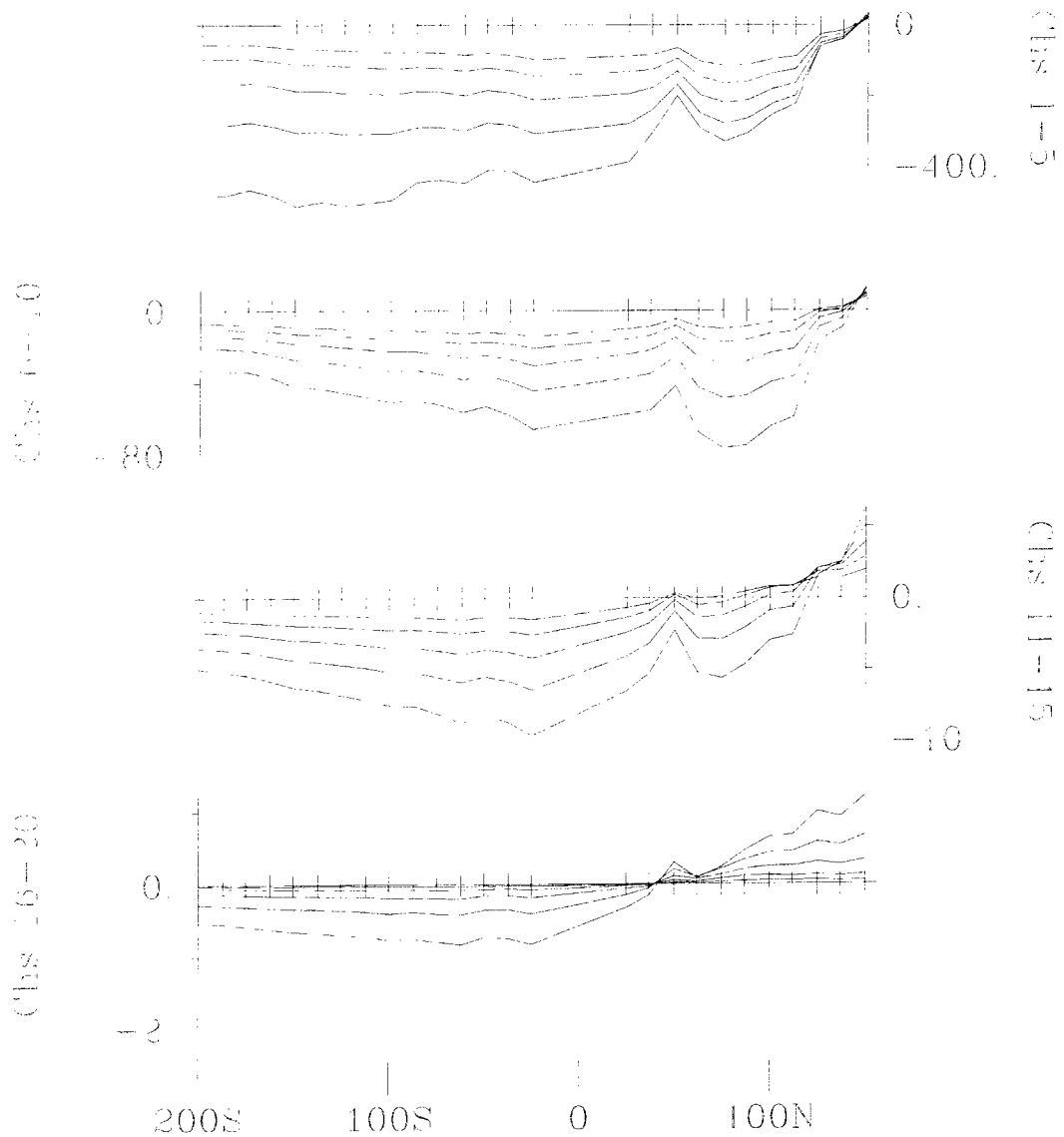
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west

Survey Date:	Sept.10, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-200+00E



Line 200+00E – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

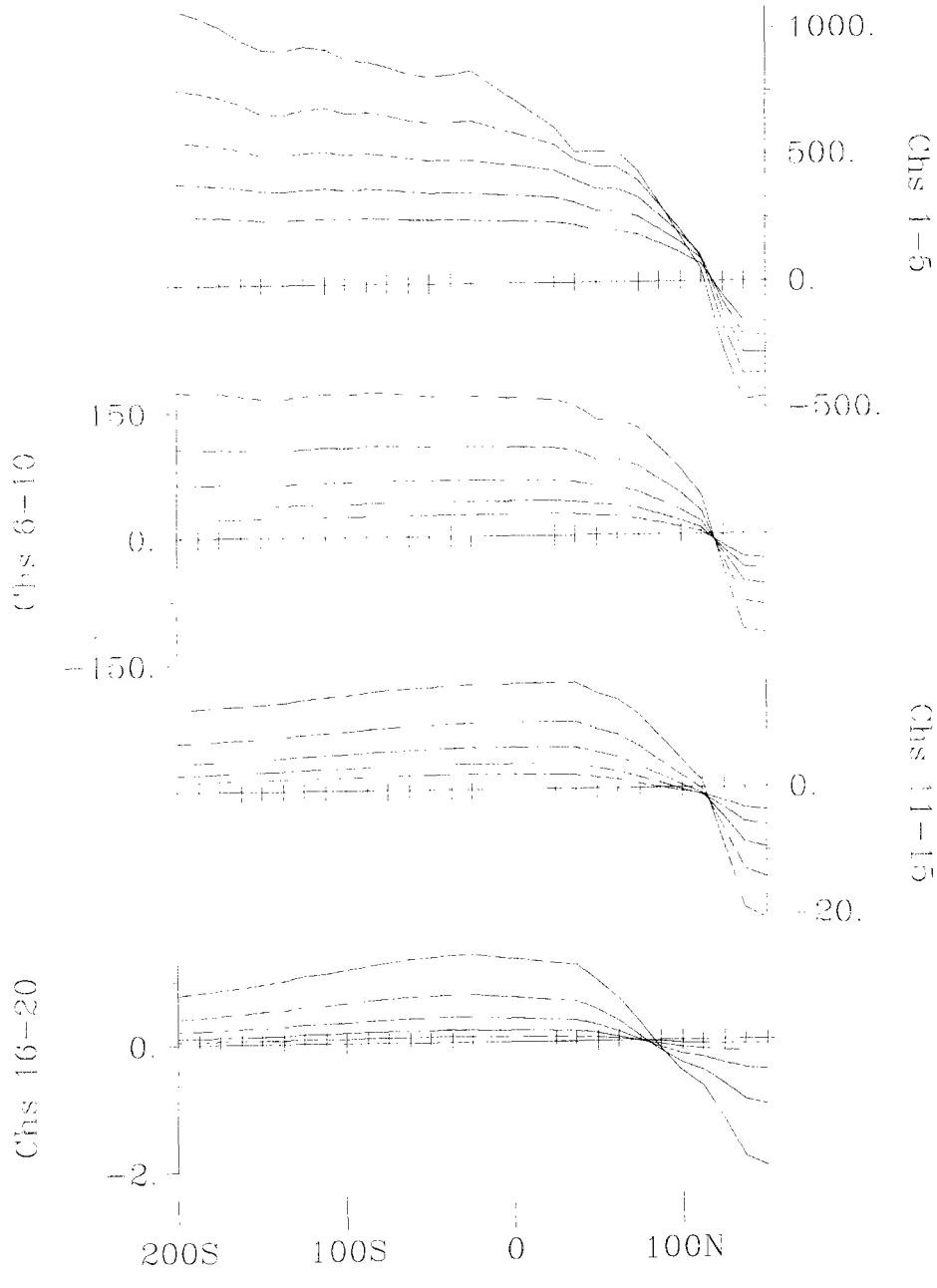
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.10, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-200+00E



Line 200+00E – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

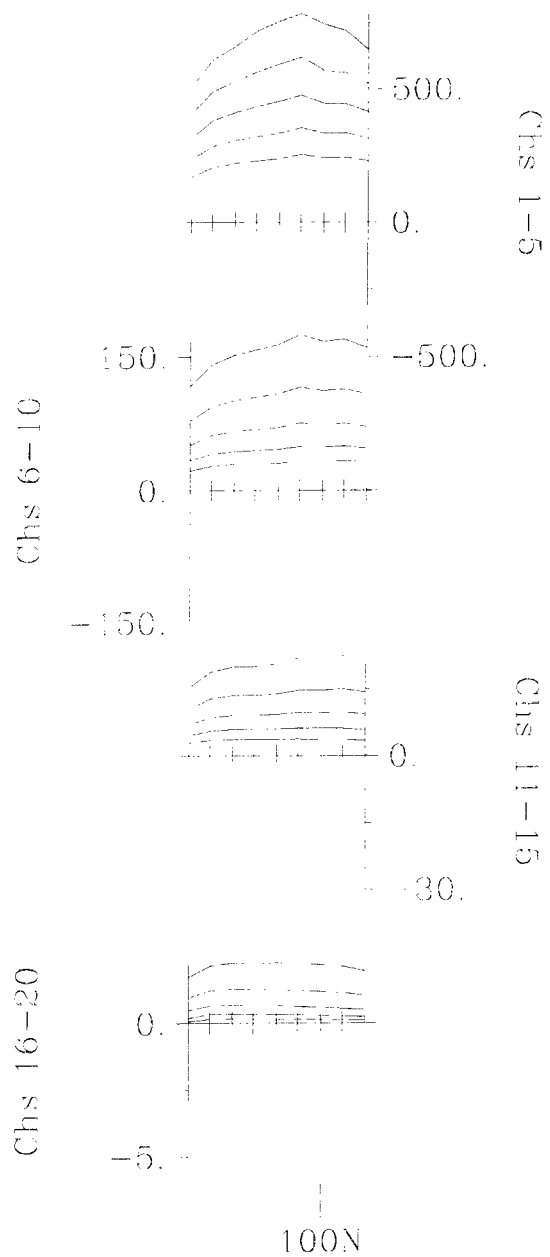
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.10, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-200+00E



Line 250+00E – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

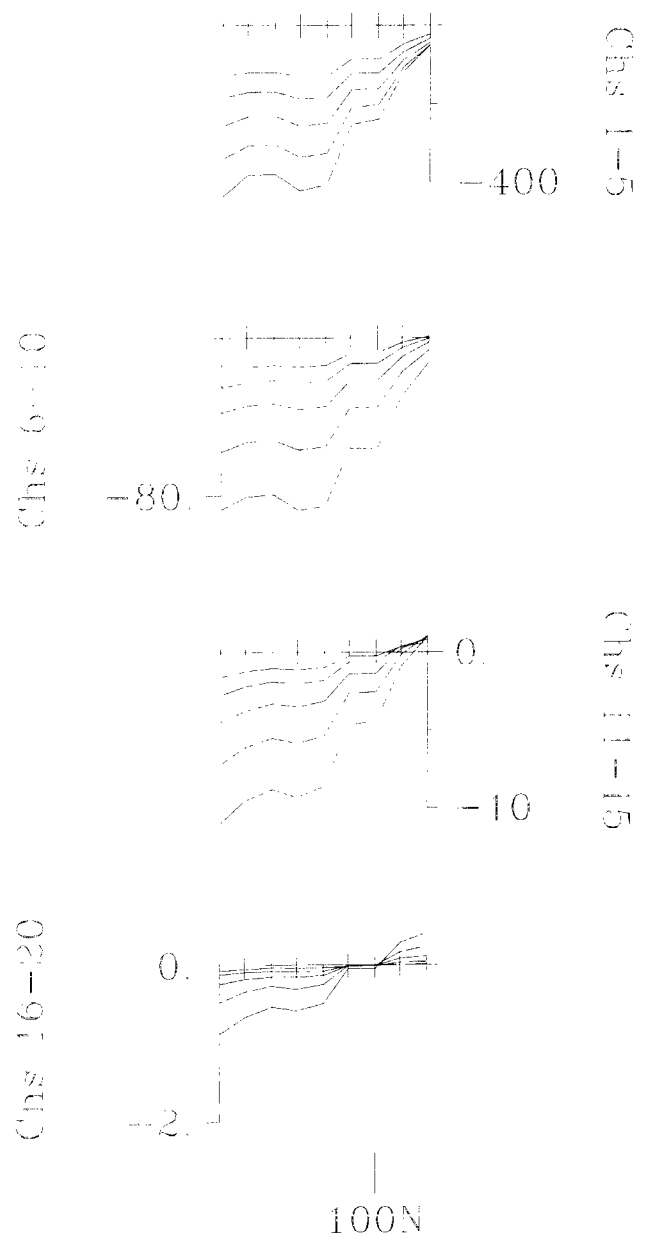
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nonoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.10, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-250+00E



Line 250+00E – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

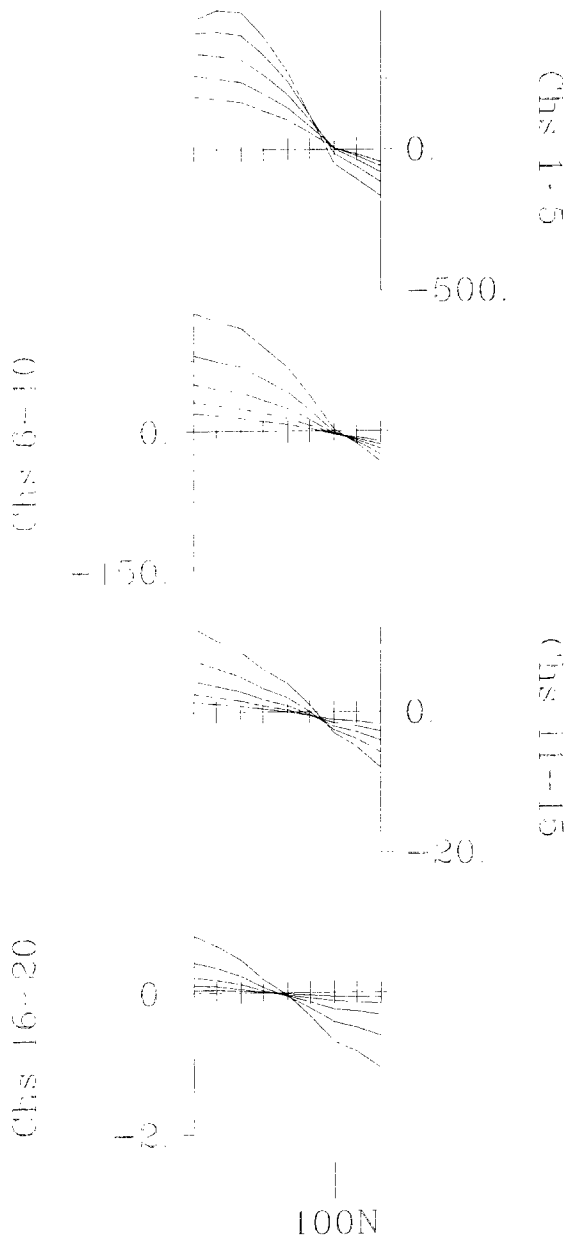
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.10, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-250+00E



Line 250+00E – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

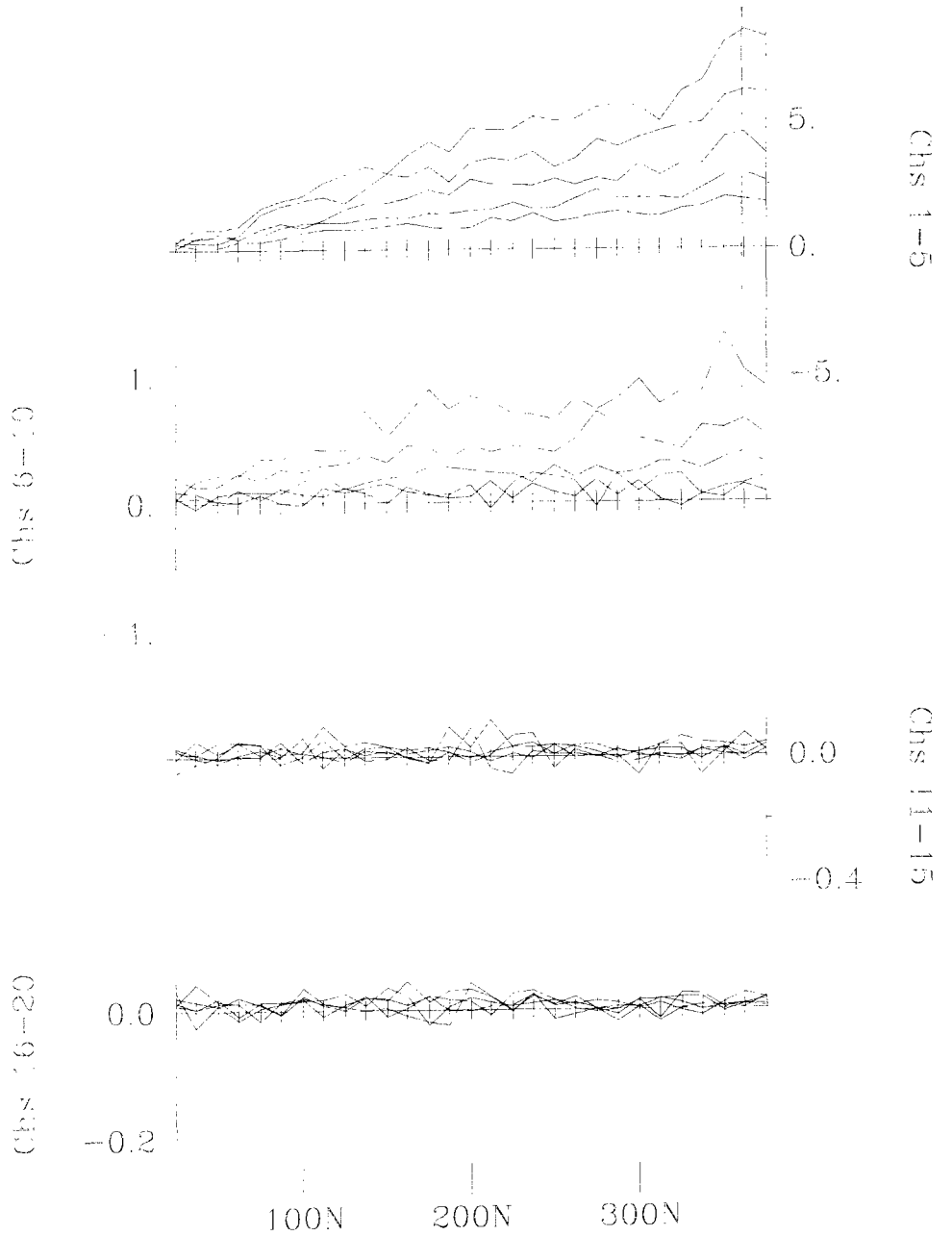
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.10, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-250+00E



Line 300+00W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

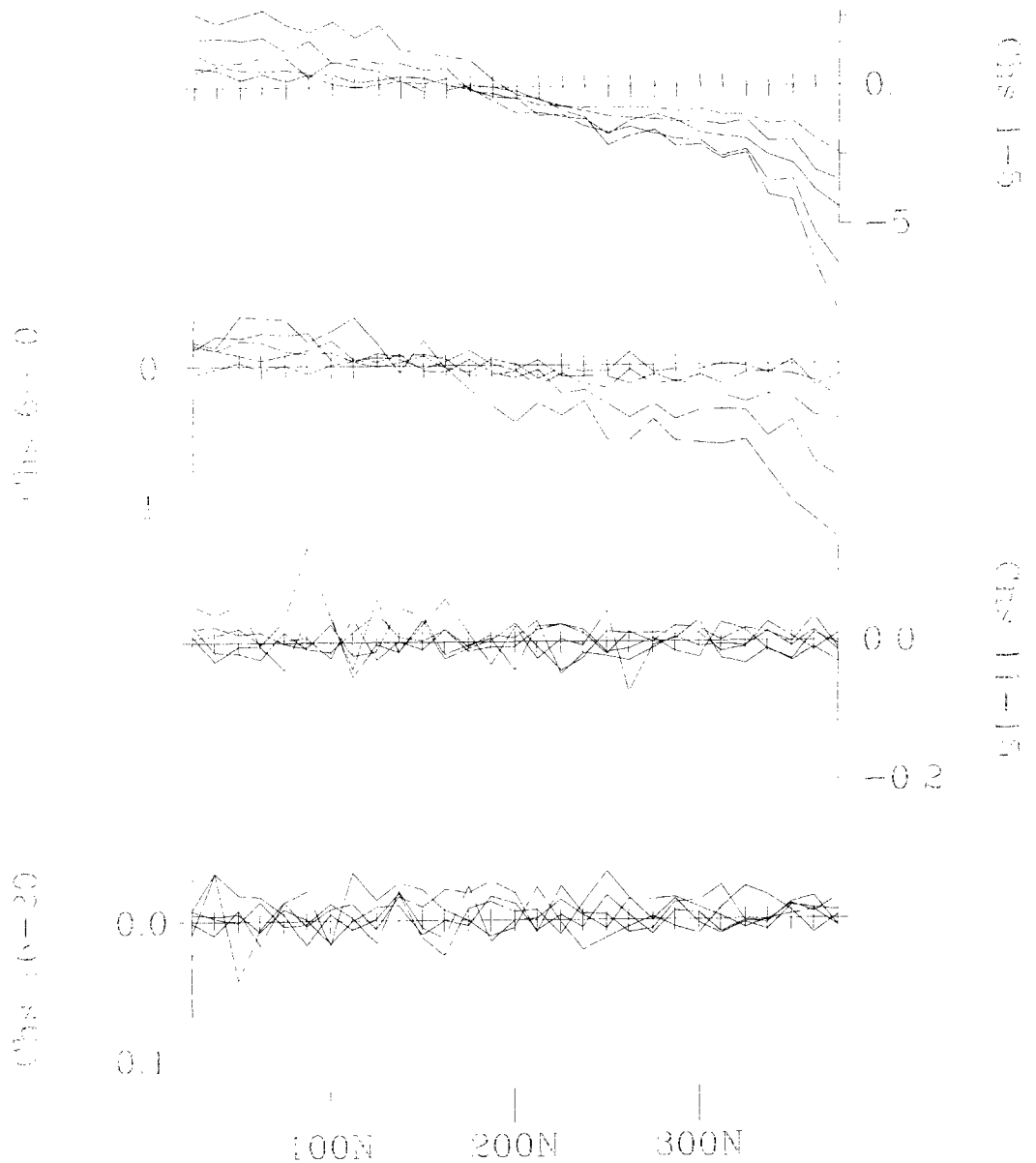
Secondary Electromagnetic Field (dB/dt)

Tronsmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Locotion:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Tronsmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.20, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-300+00W



Line 300+00W – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

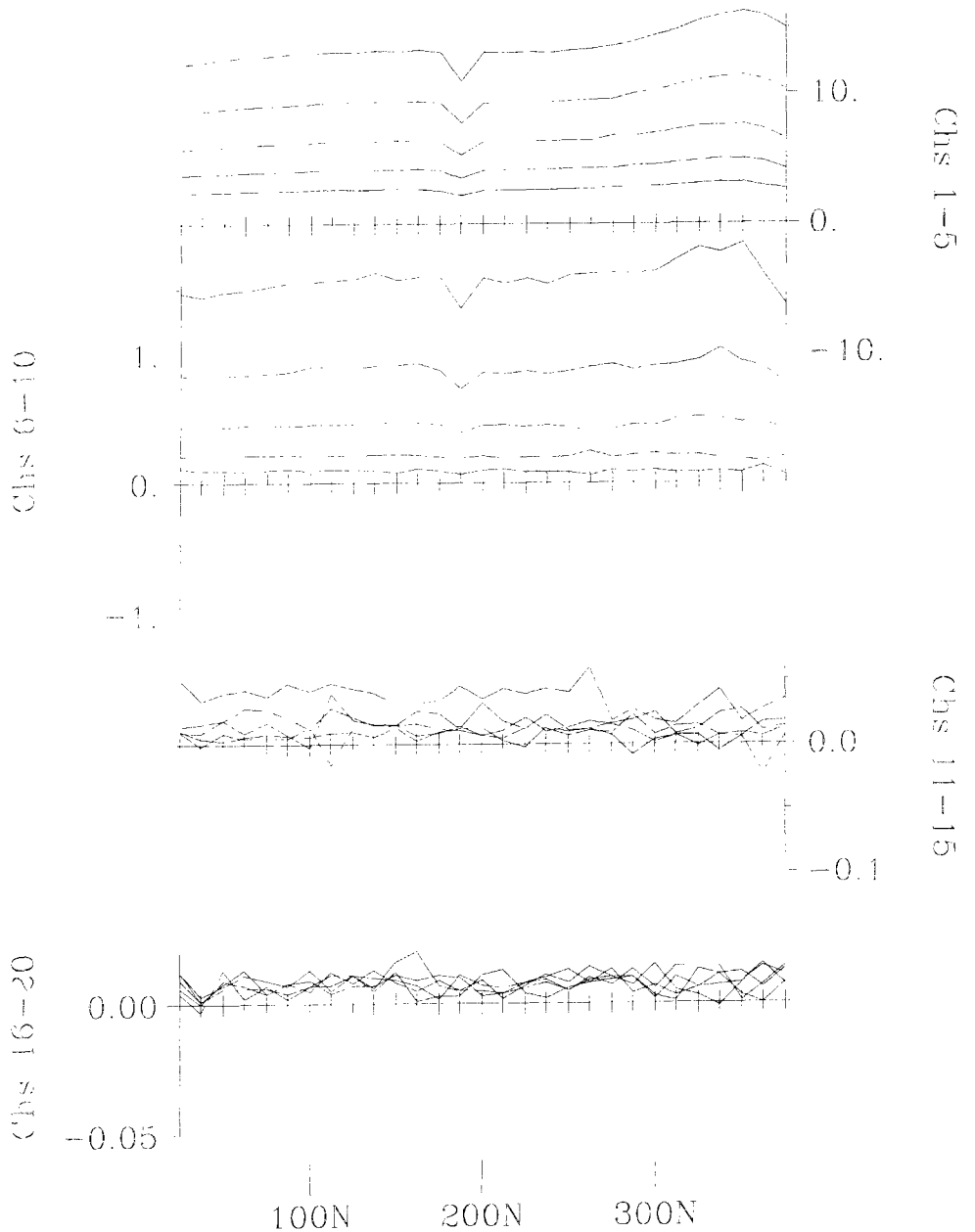
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.20, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-300+00W



Line 300+00W – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

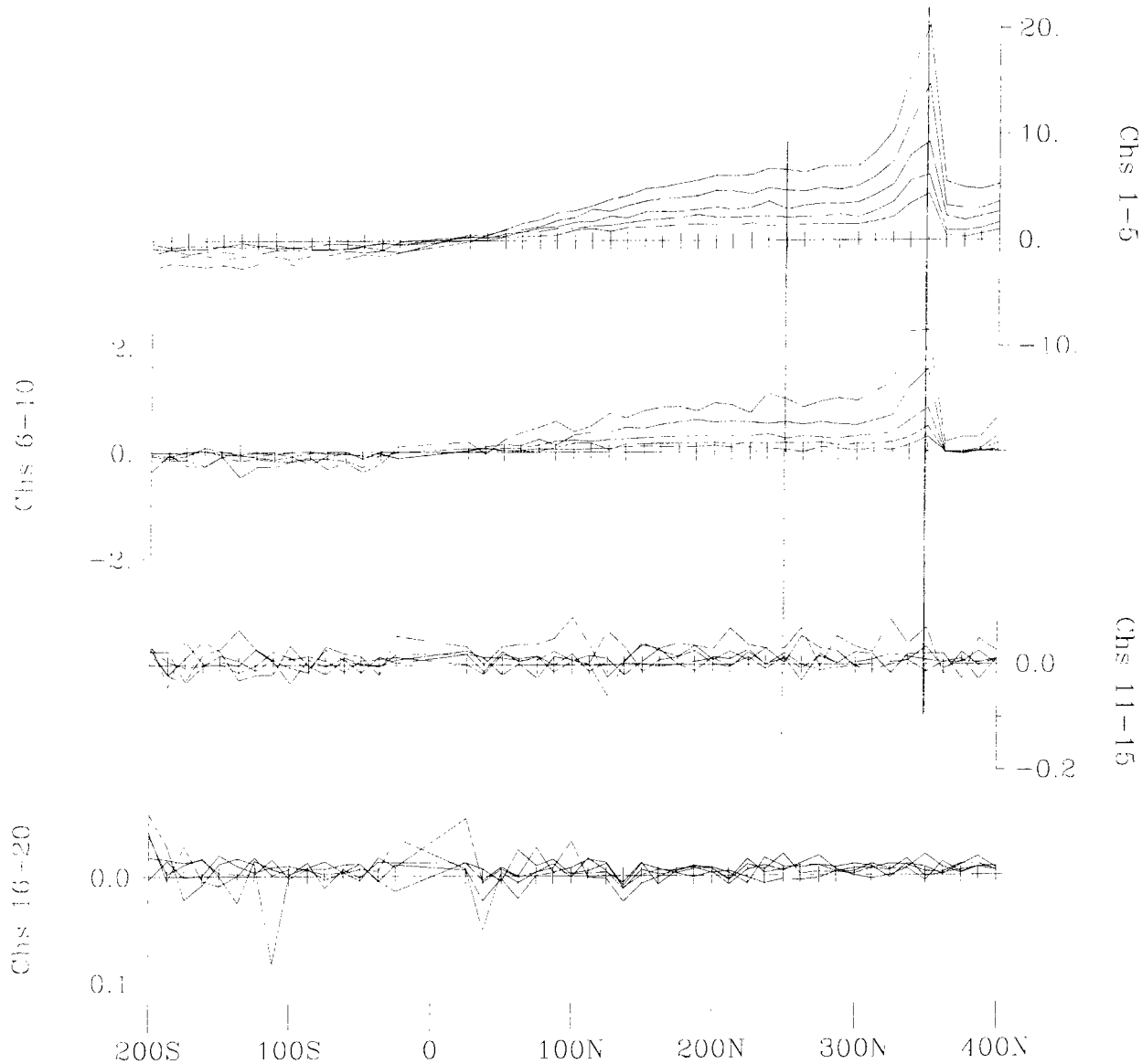
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept. 20, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-300+00W



Line 250+00W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

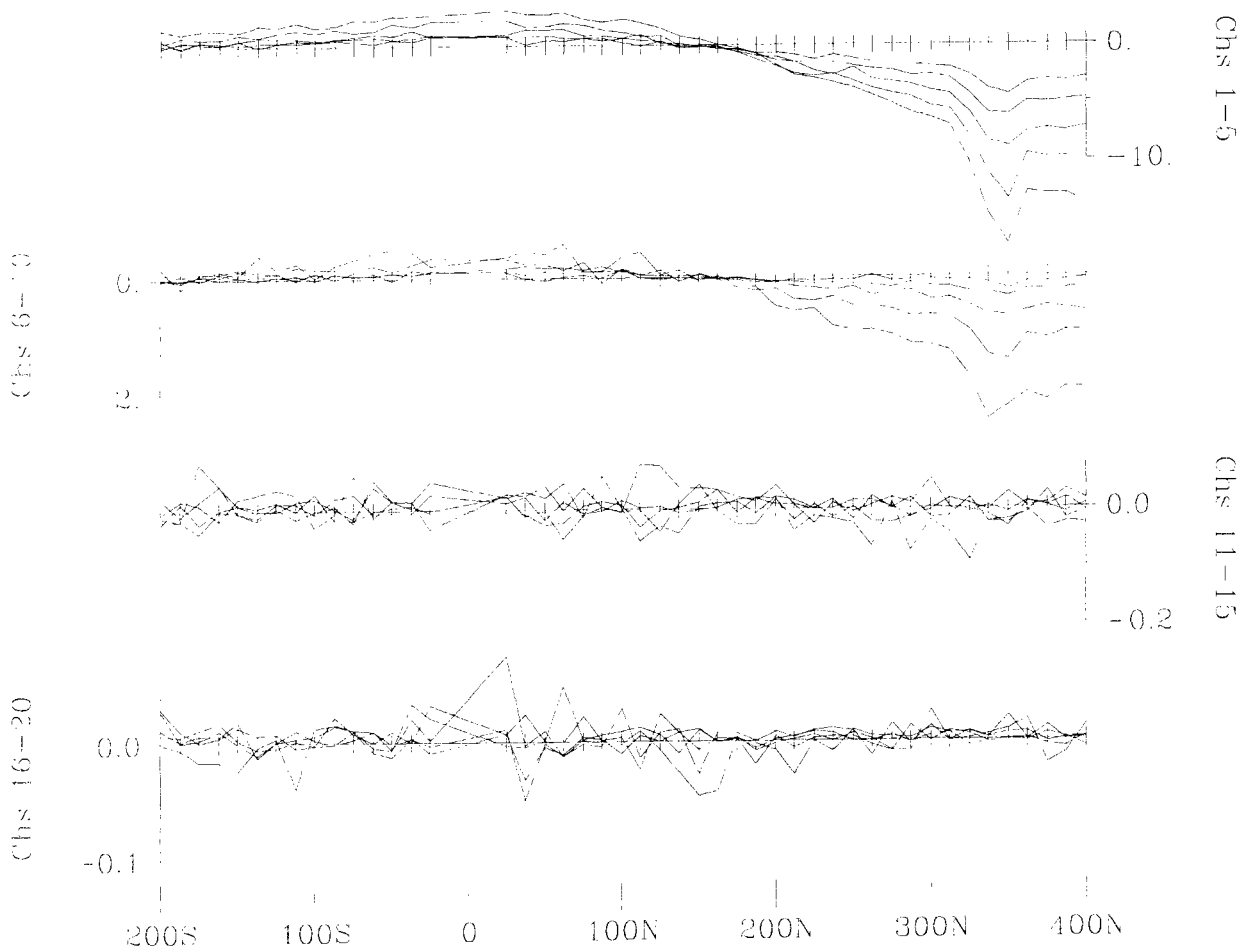
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept. 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-250+00W



Line 250+00W - Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

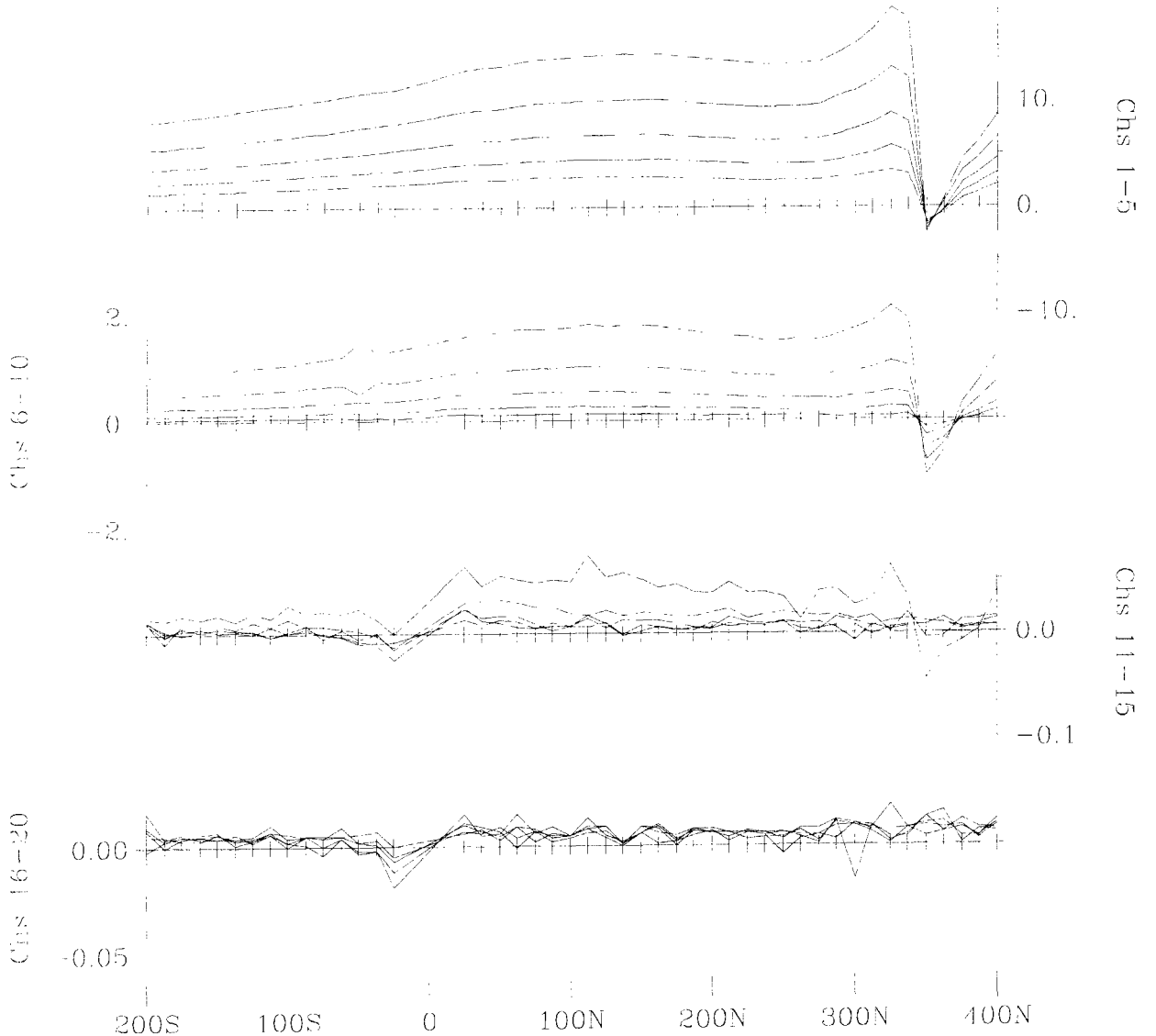
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.19, 2007
Instrumentation:	Rx = Digital Pratem (30 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-250+00W



Line 250+00W – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

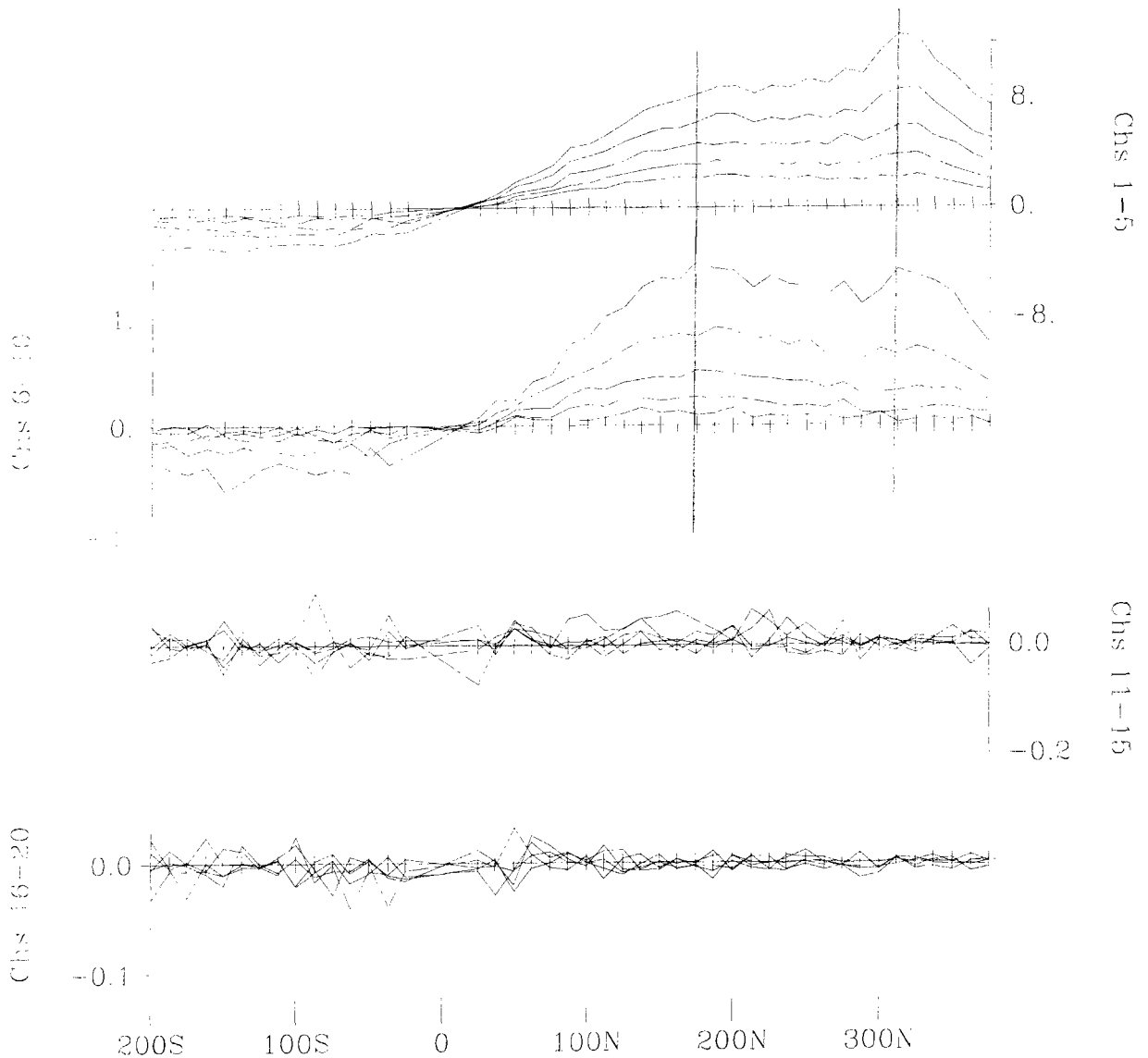
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E,3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept.19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-250+00W



Line 200+00W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

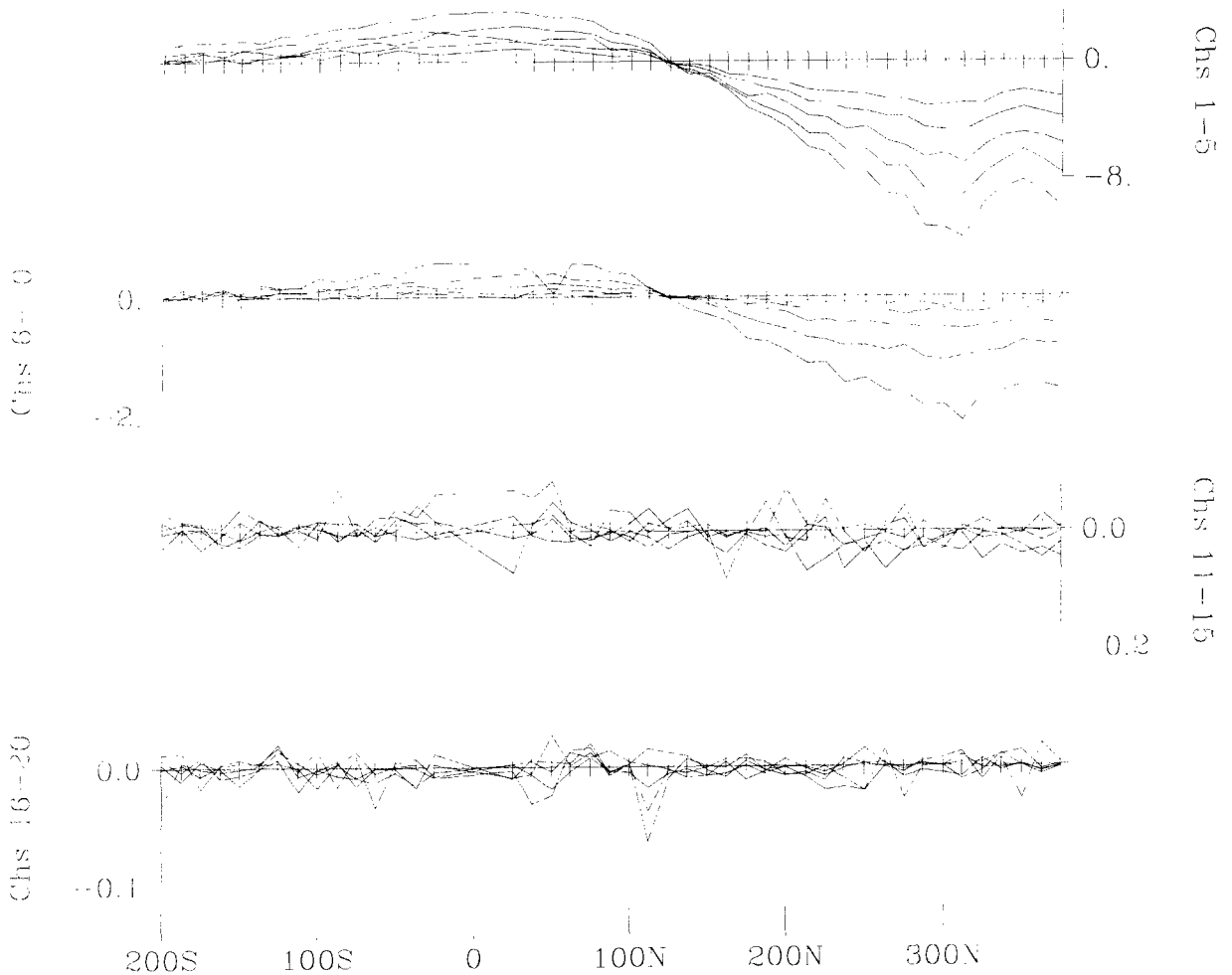
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.19, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-200+00W



Line 200+00W – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

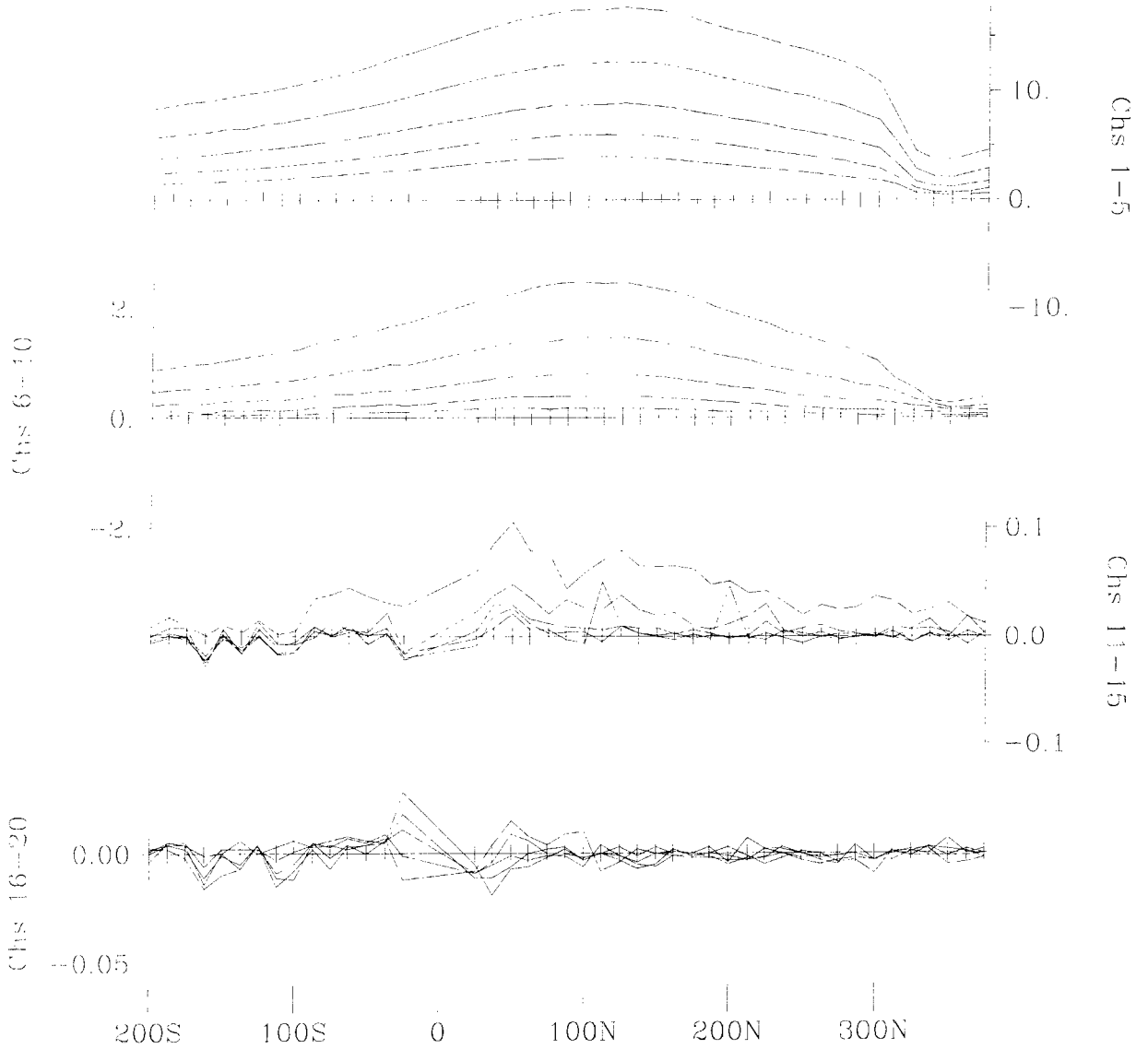
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientotion:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept. 19, 2007
Instrumentotion:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-200+00W



Line 200+00W – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

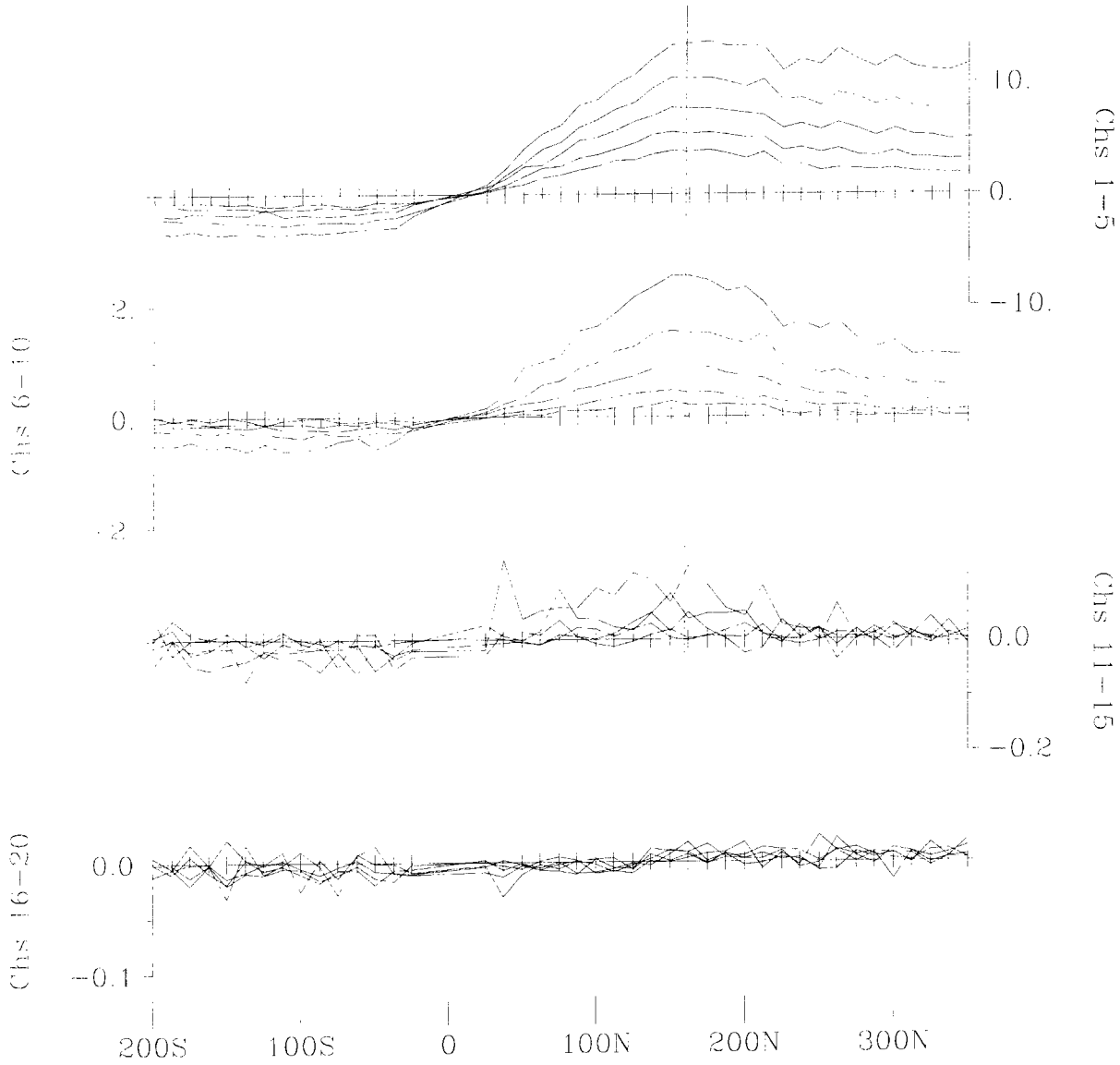
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Locotion:	L3+00W-2+50E,3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nonoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.19, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-200+00W



Line 150+00W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

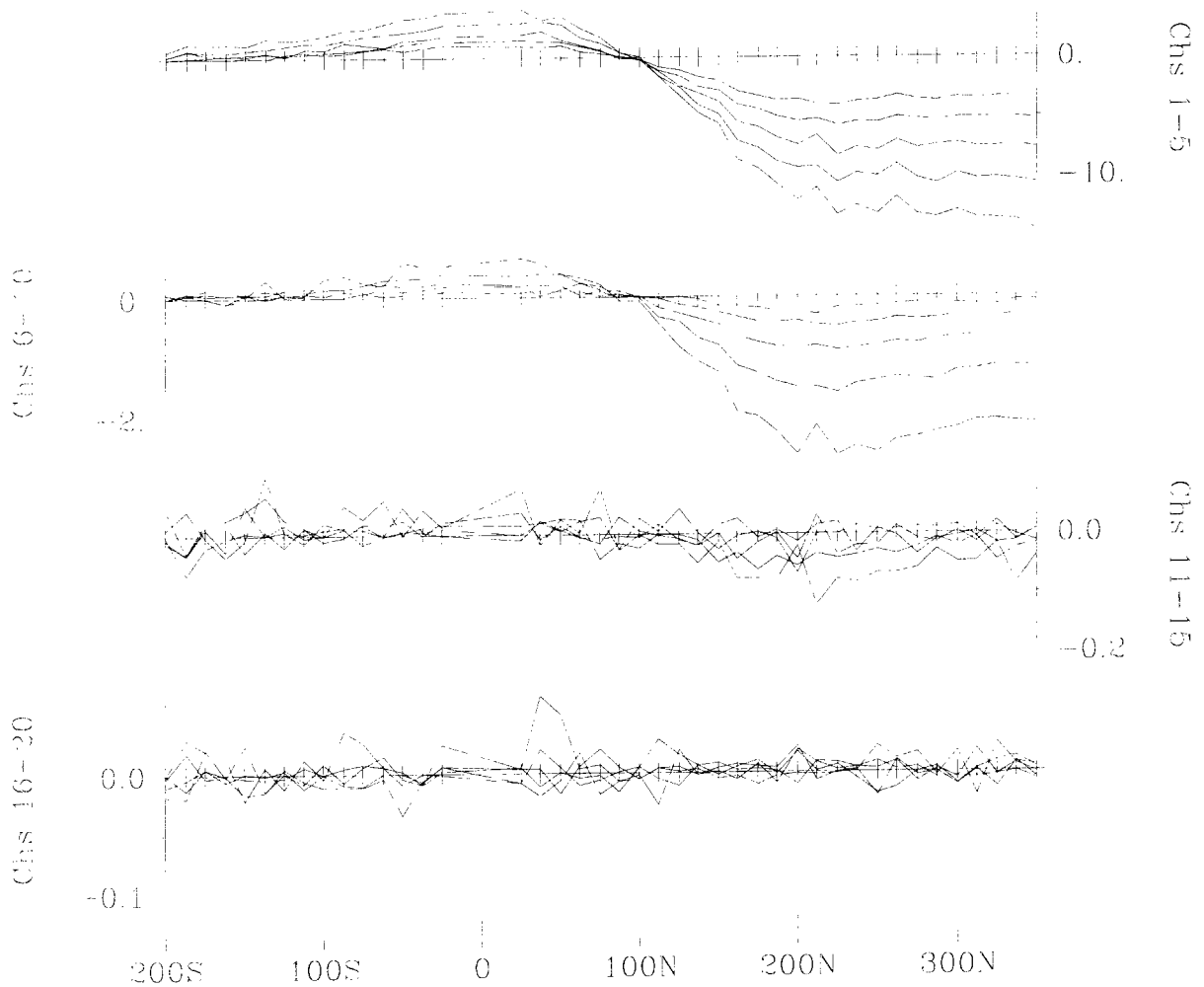
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept. 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-150+00W



Line 150+00W – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

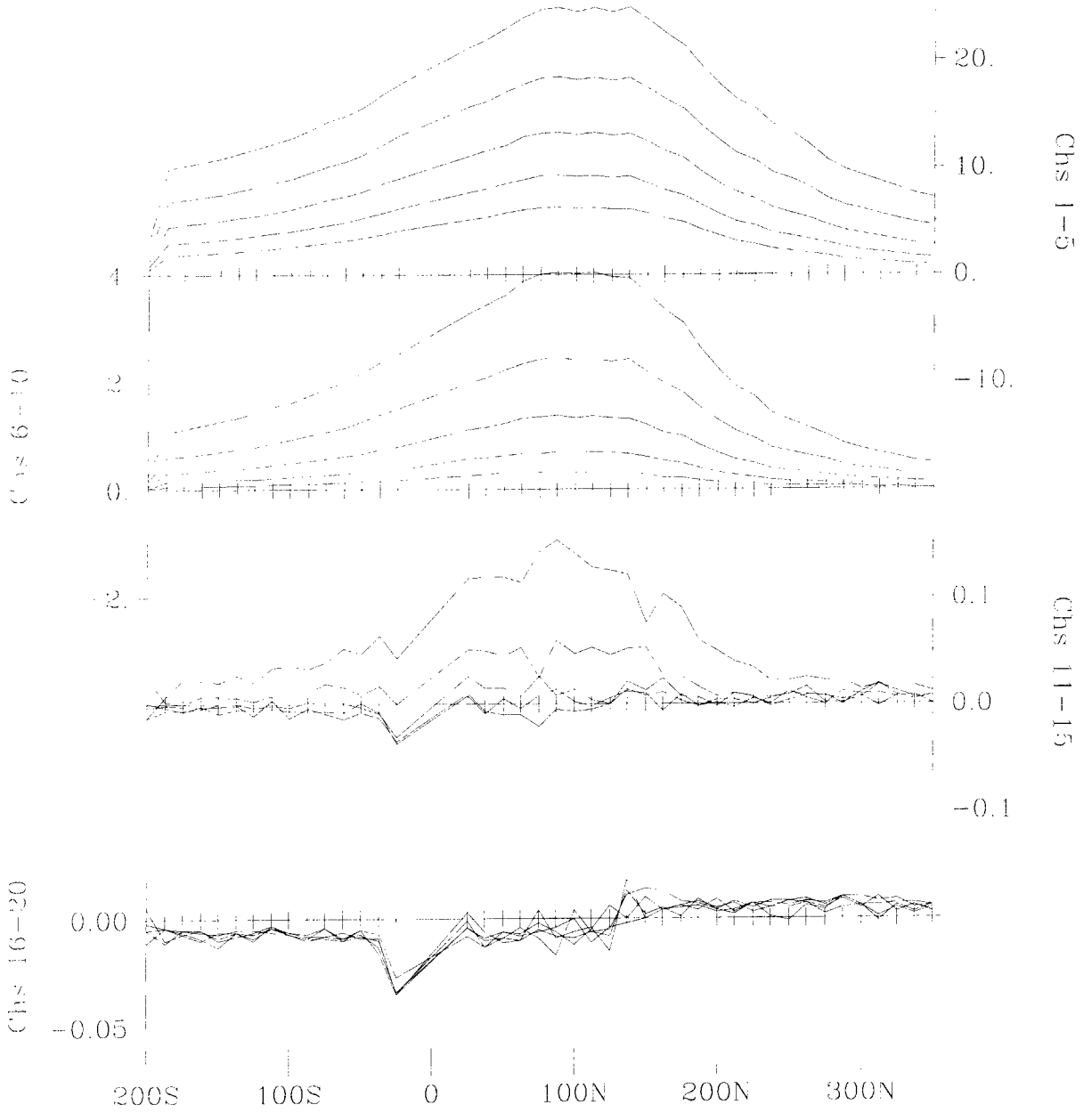
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept. 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-150+00W



Line 150+00W – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

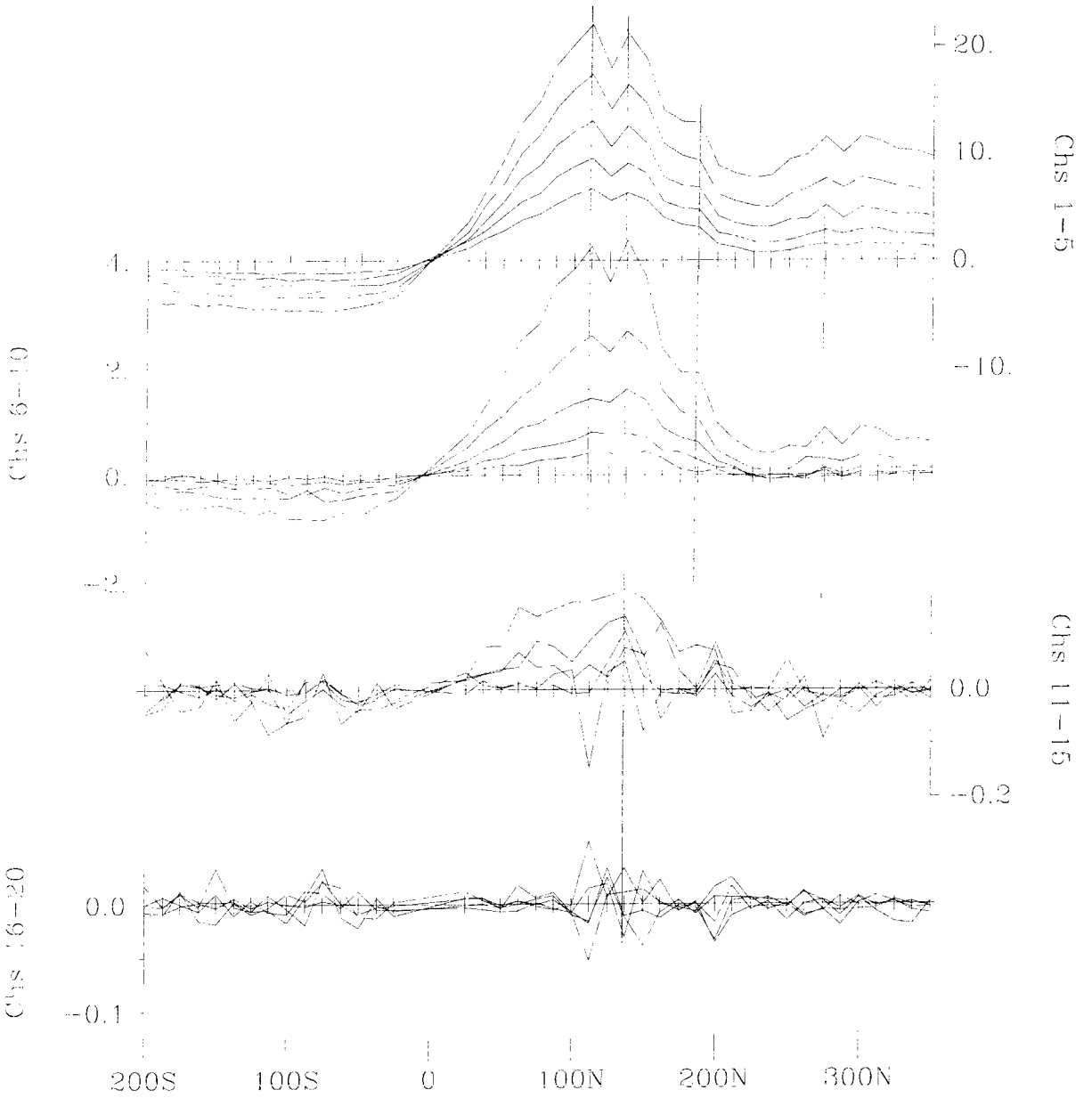
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept. 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM 57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-150+00W



Line 100+00W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

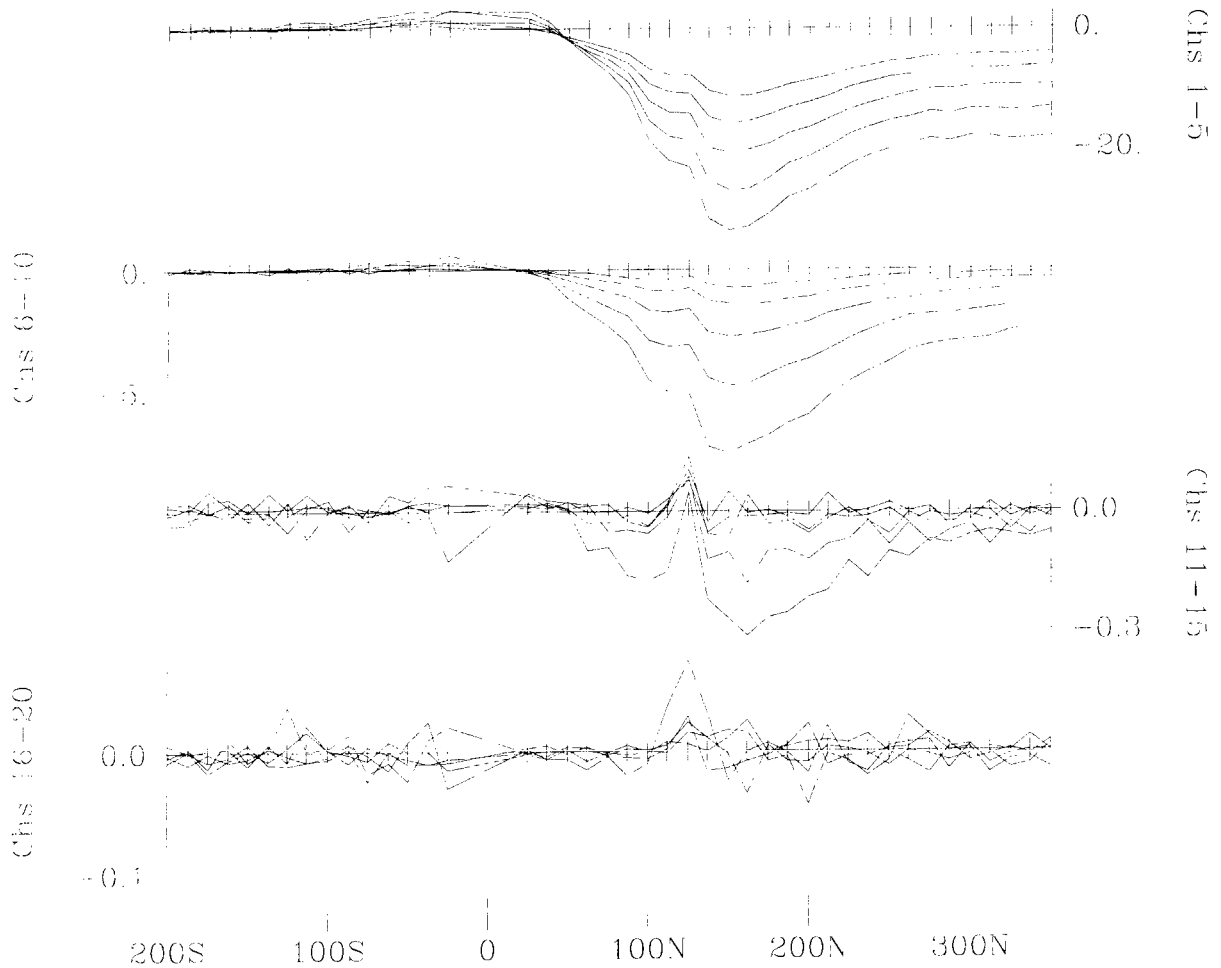
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientotion:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.19, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-100+00W



Line 100+00W – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

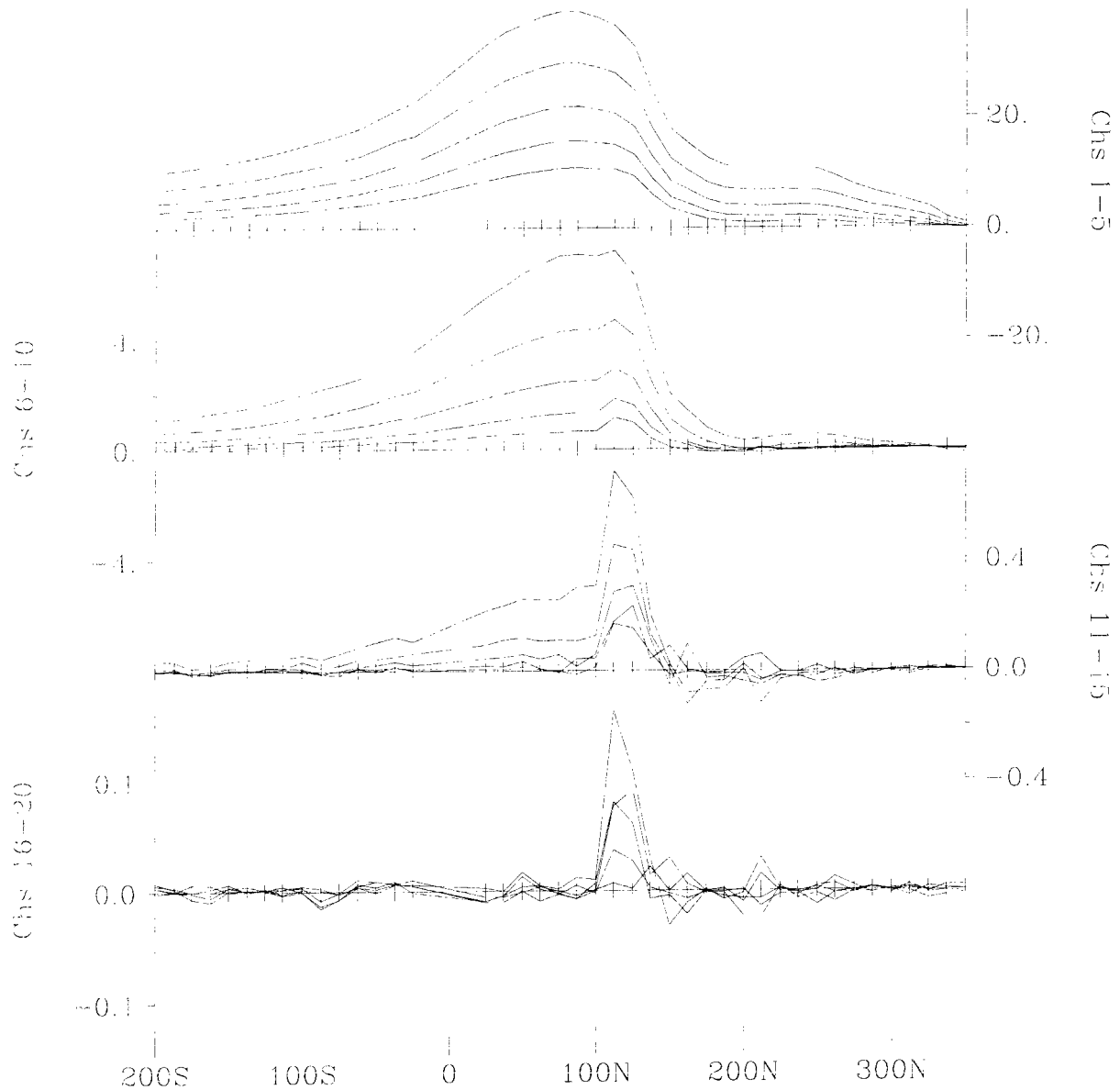
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.19, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-100+00W



Line 100+00W – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

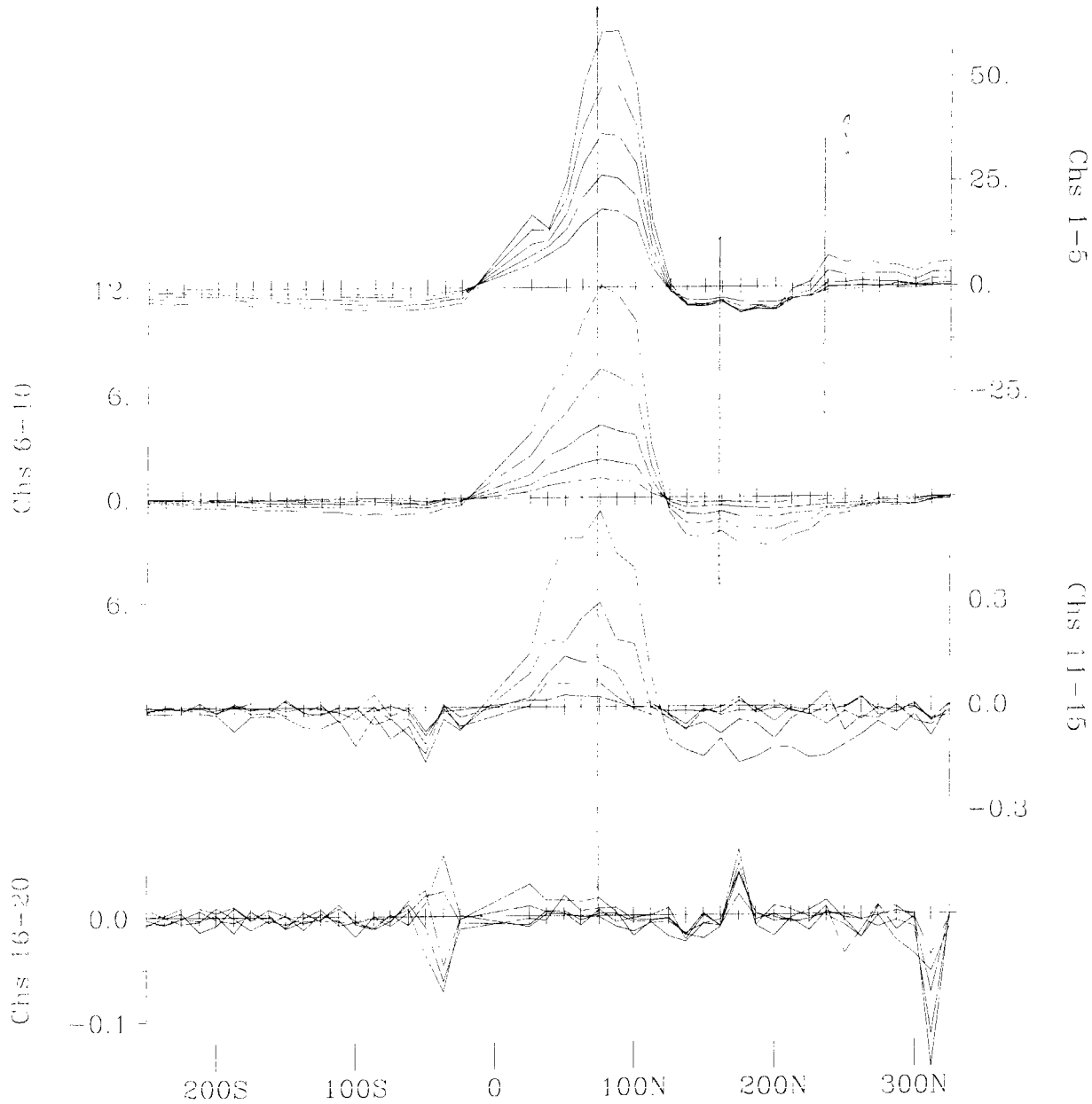
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nonoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept. 19, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-100+00W



Line 50+00W – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

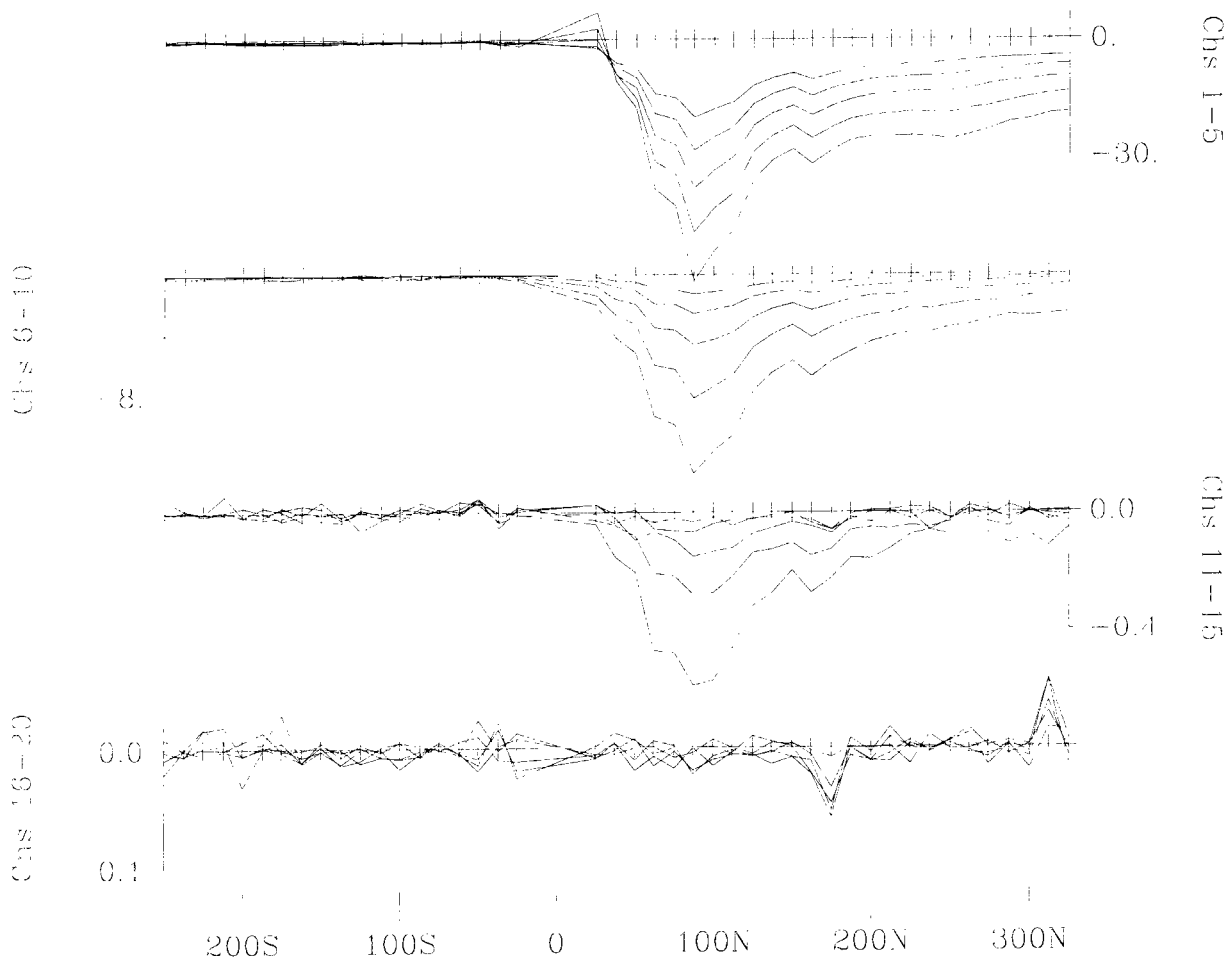
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Stotion Intervol:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.17, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-50+00W



Line 50+00W – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

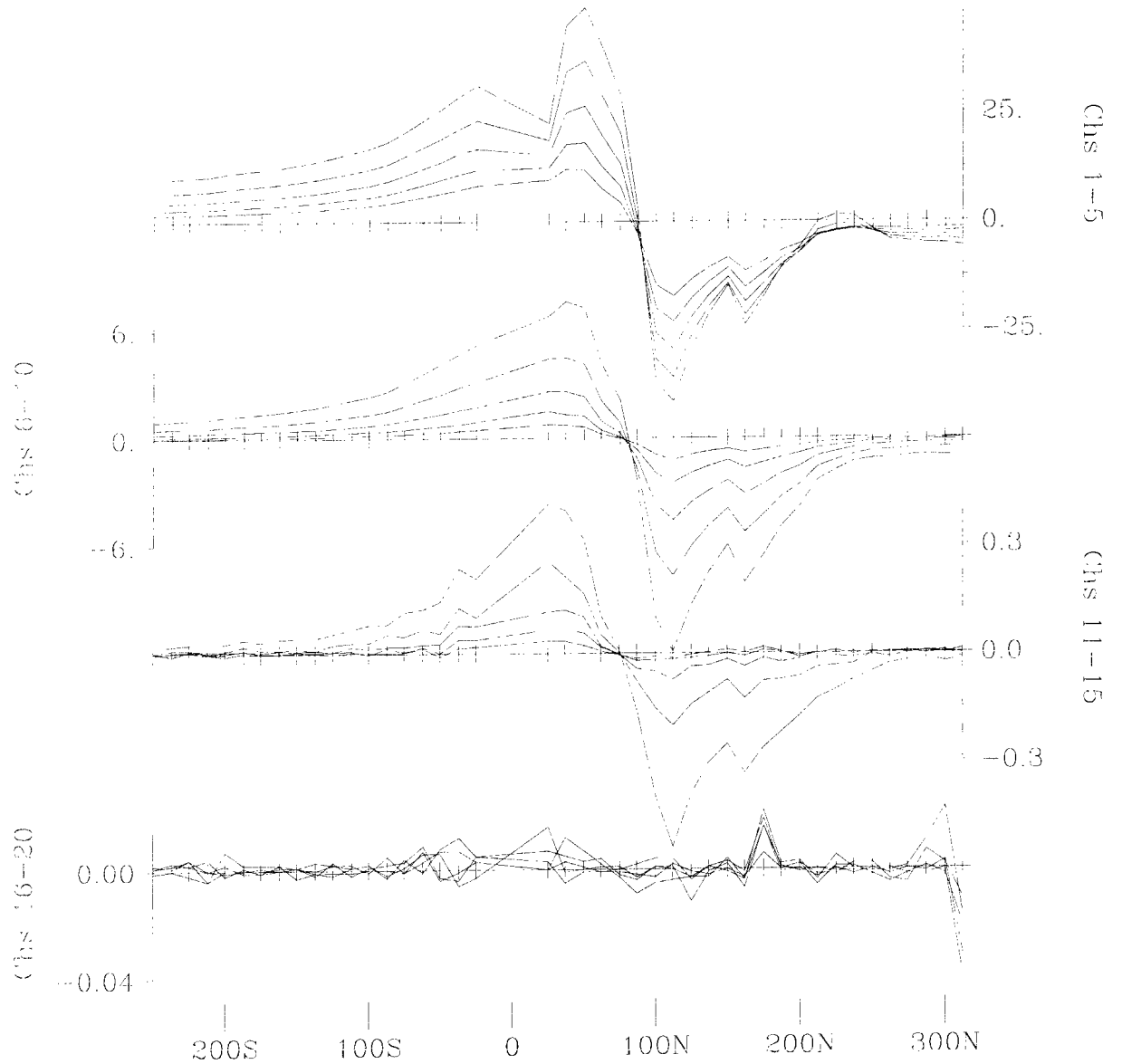
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.17, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-50+00W



Line 50+00W – Z Component

LOOP 1

Scale 1:5000

100 0 100 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

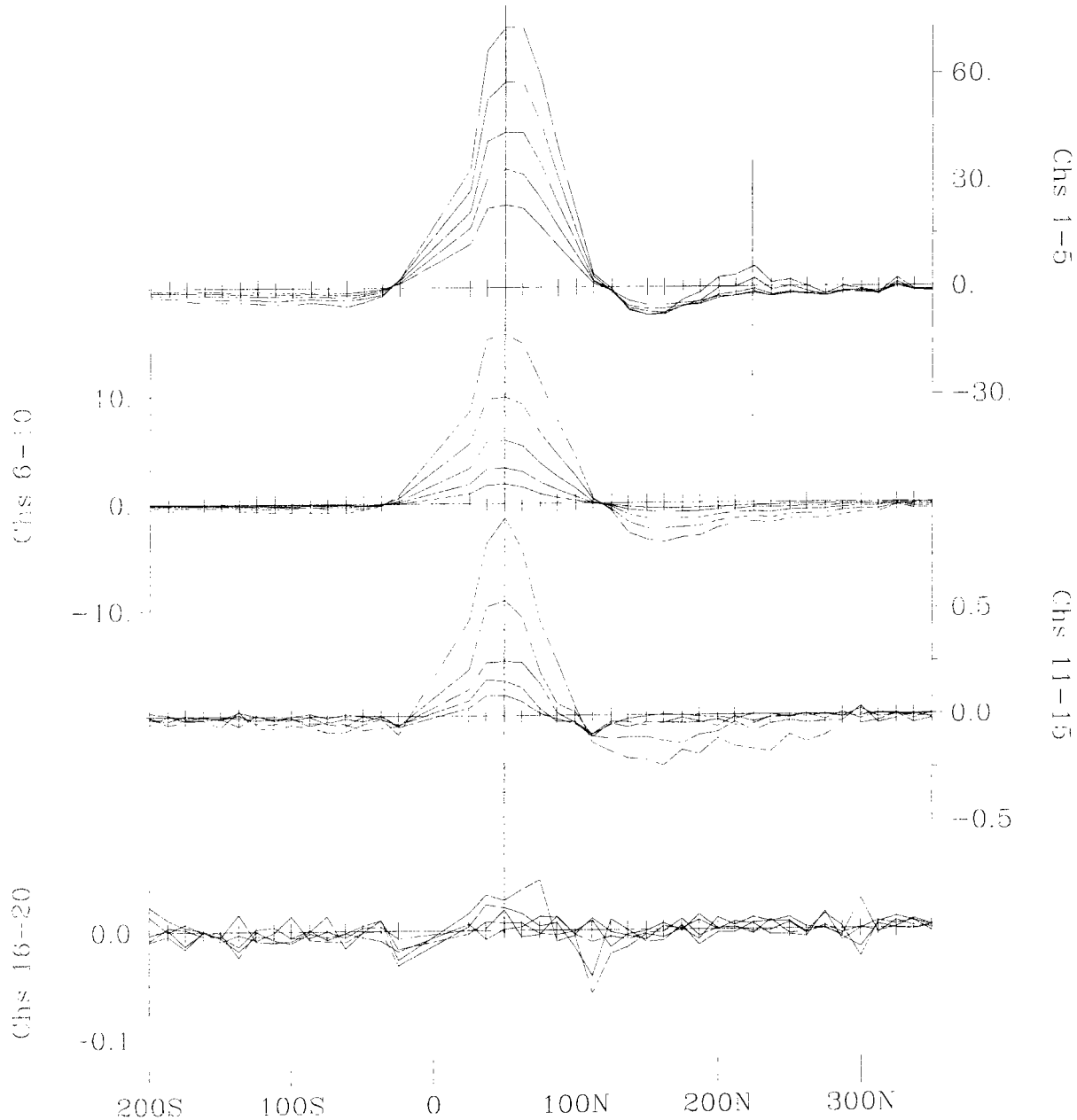
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location.	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nonoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.17, 2007
Instrumentotion:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-50+00W



Line 0+00E – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

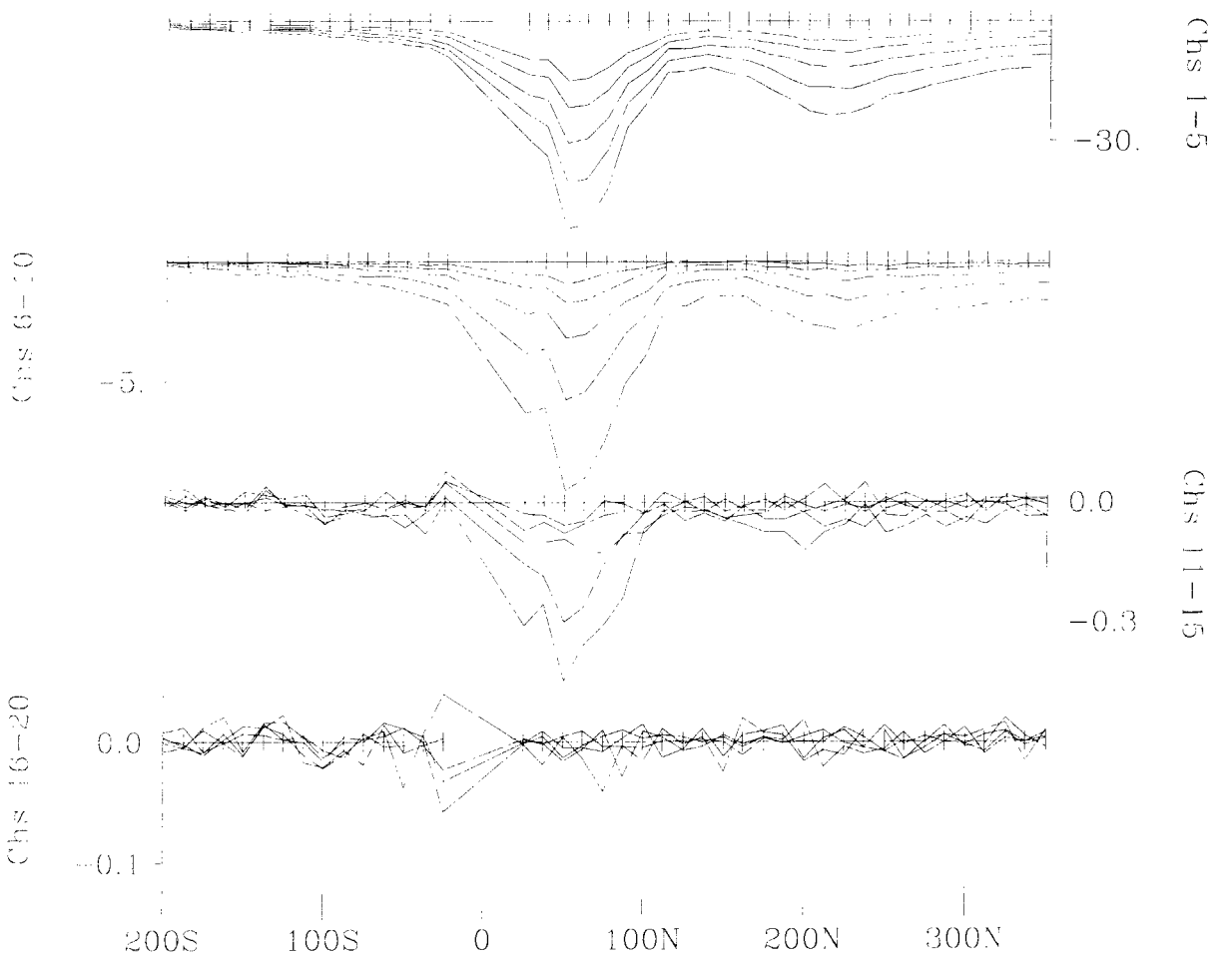
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location.	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.17, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-0+00E



Line 0+00E – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

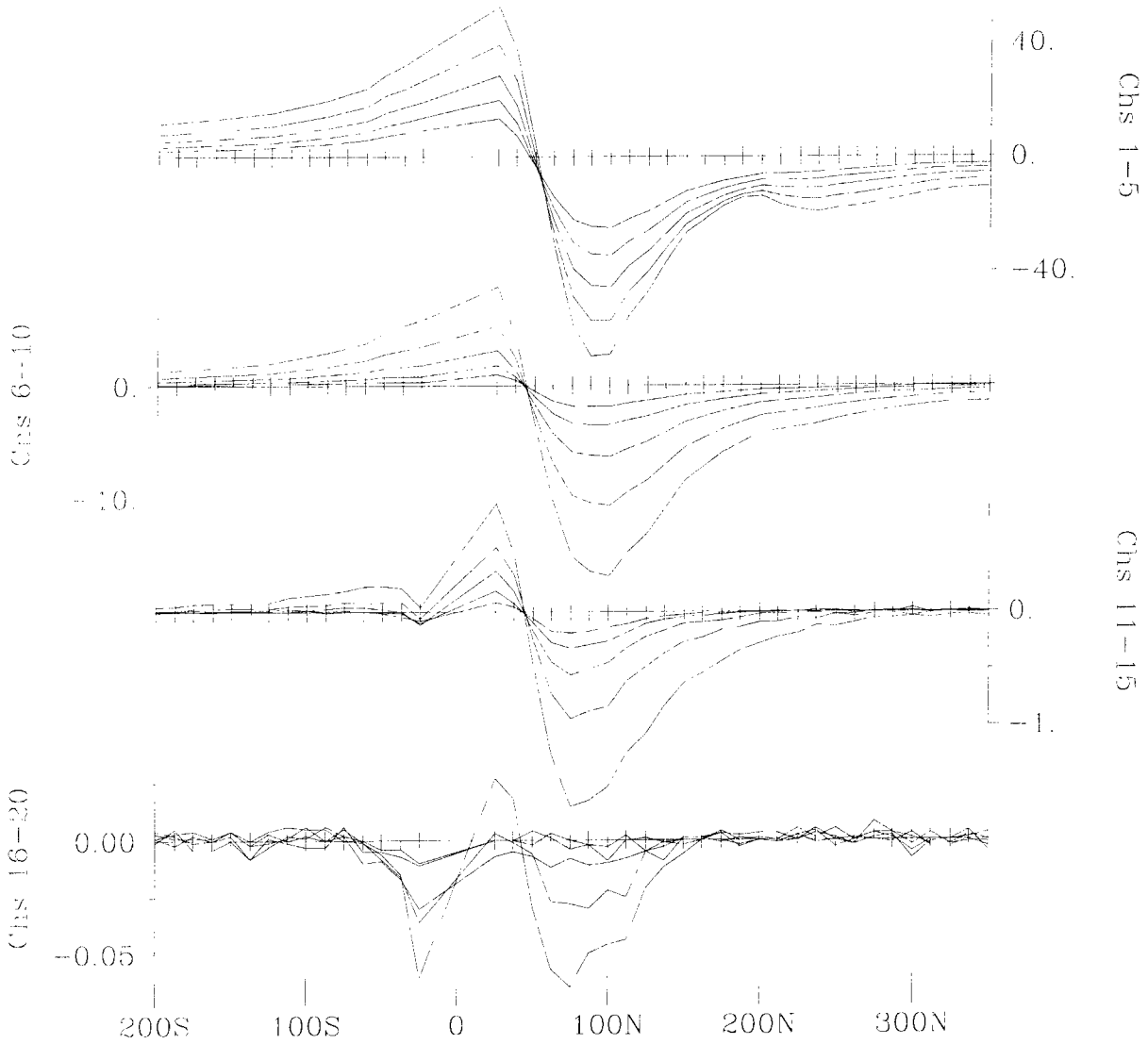
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.17, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-0+00E



Line 0+00 – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

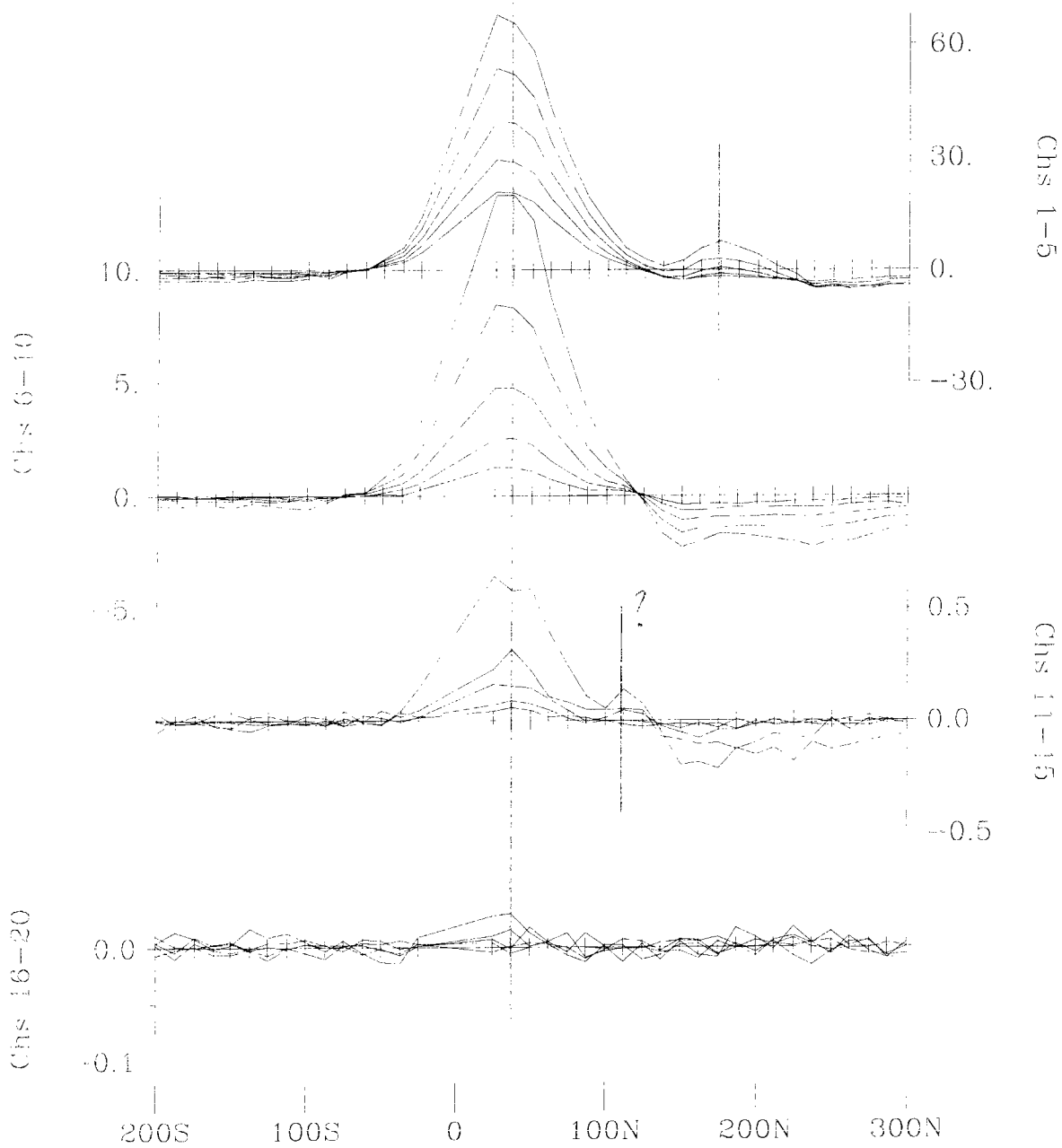
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.17, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-0+00



Line 0+50E – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

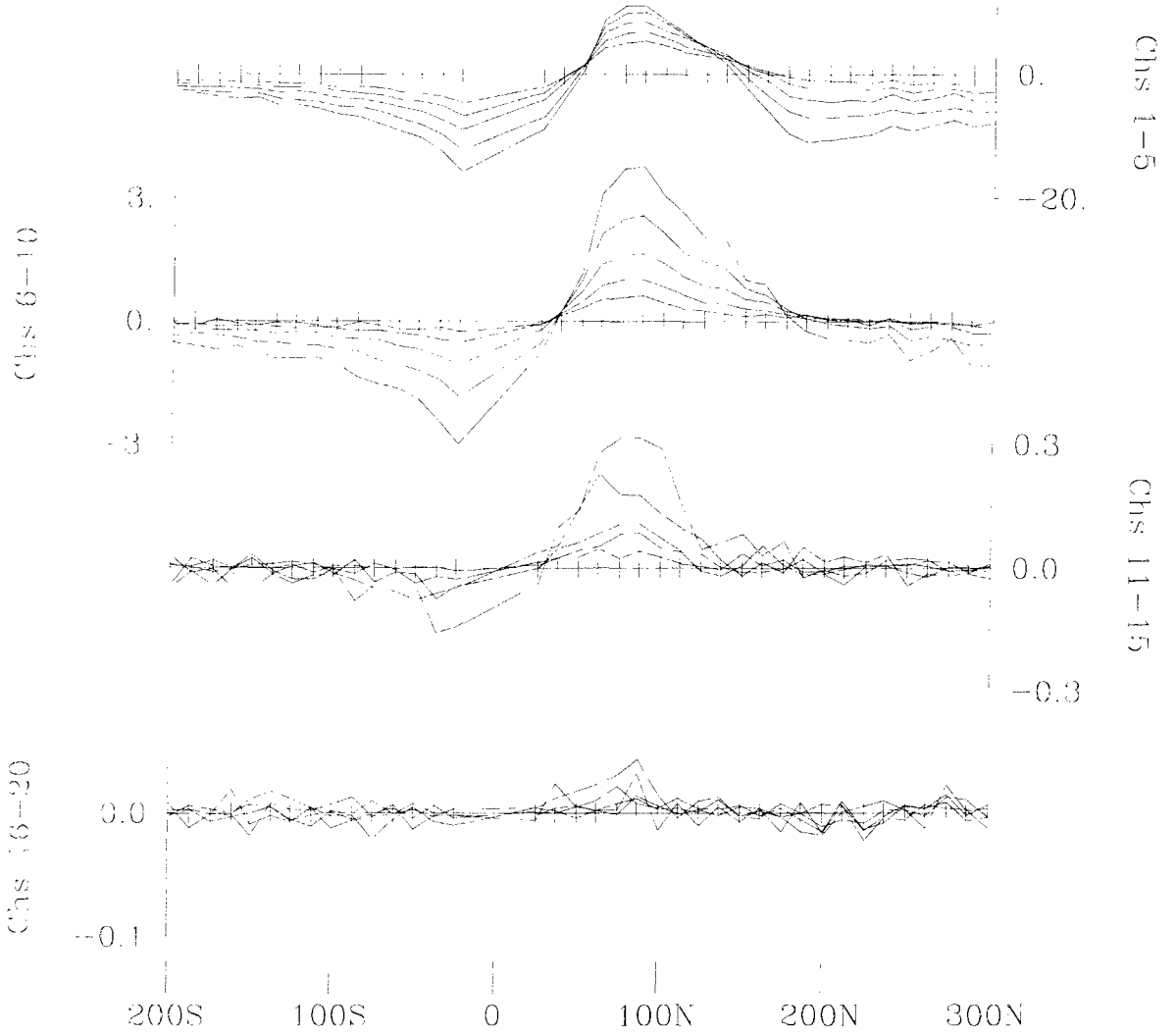
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Intervol:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept. 16, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-0+50E



Line 0+50E – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

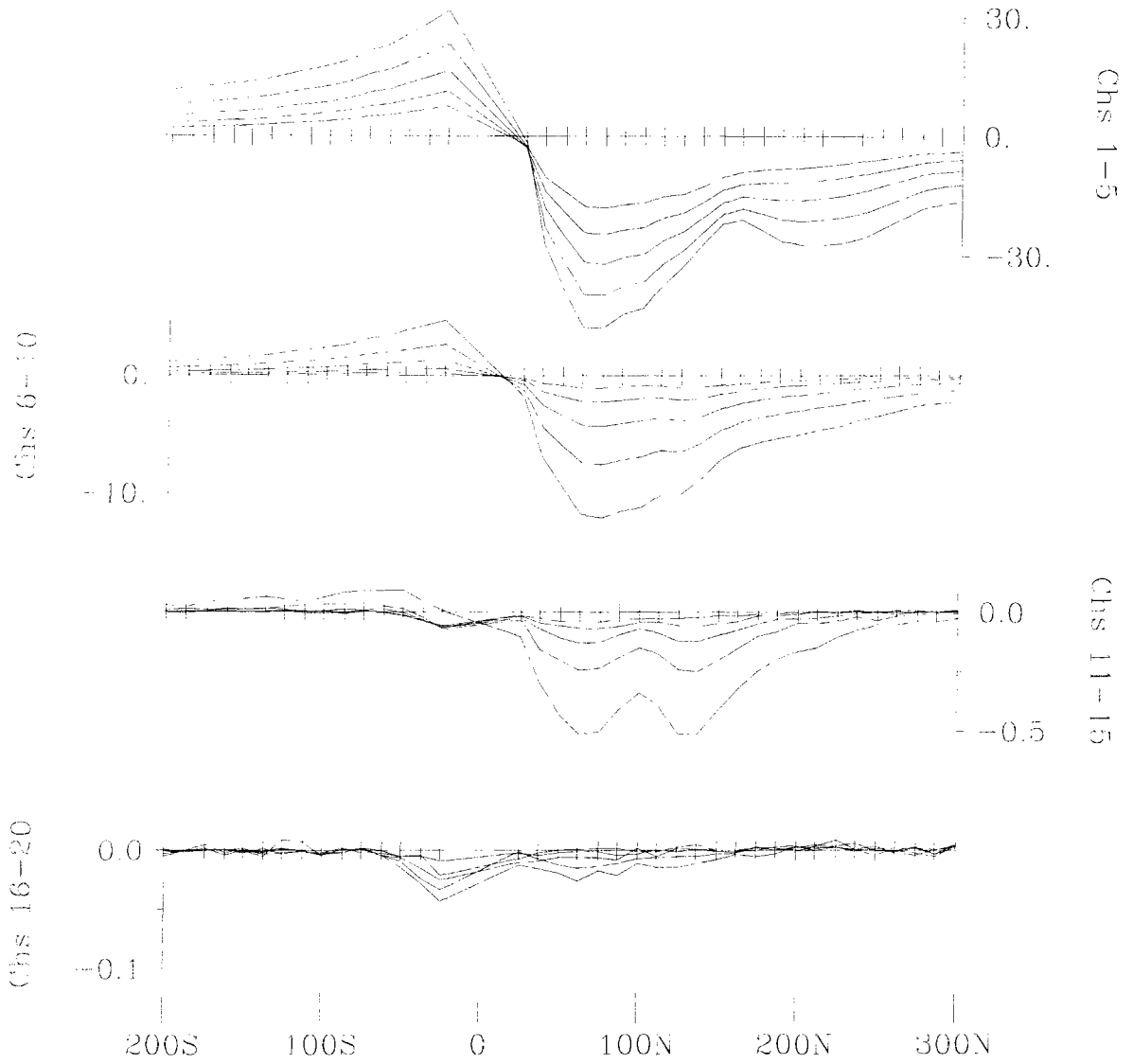
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.16, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-0+50E



Line 0+50E – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

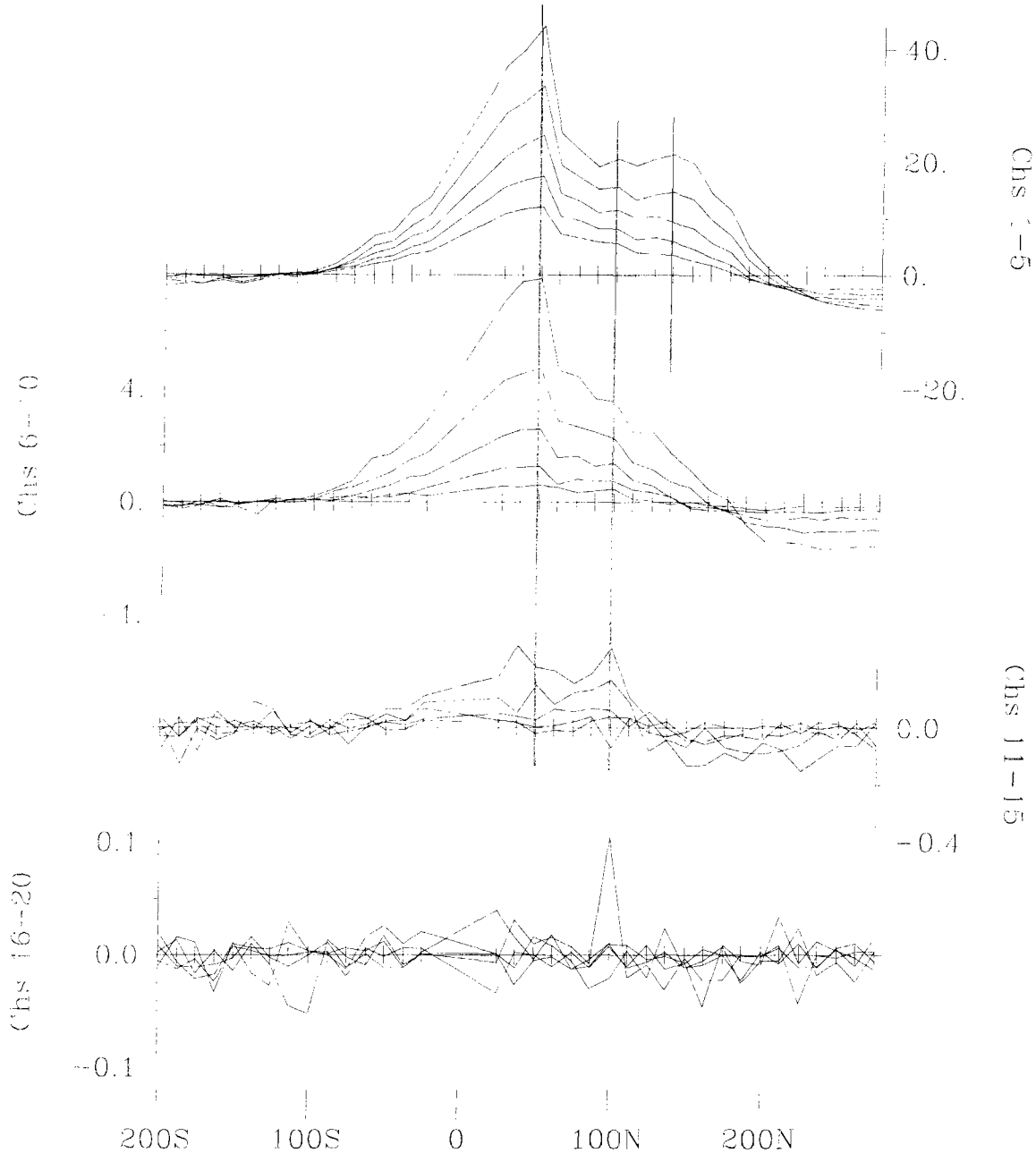
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.16, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-0+50E



Line 100+00E – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

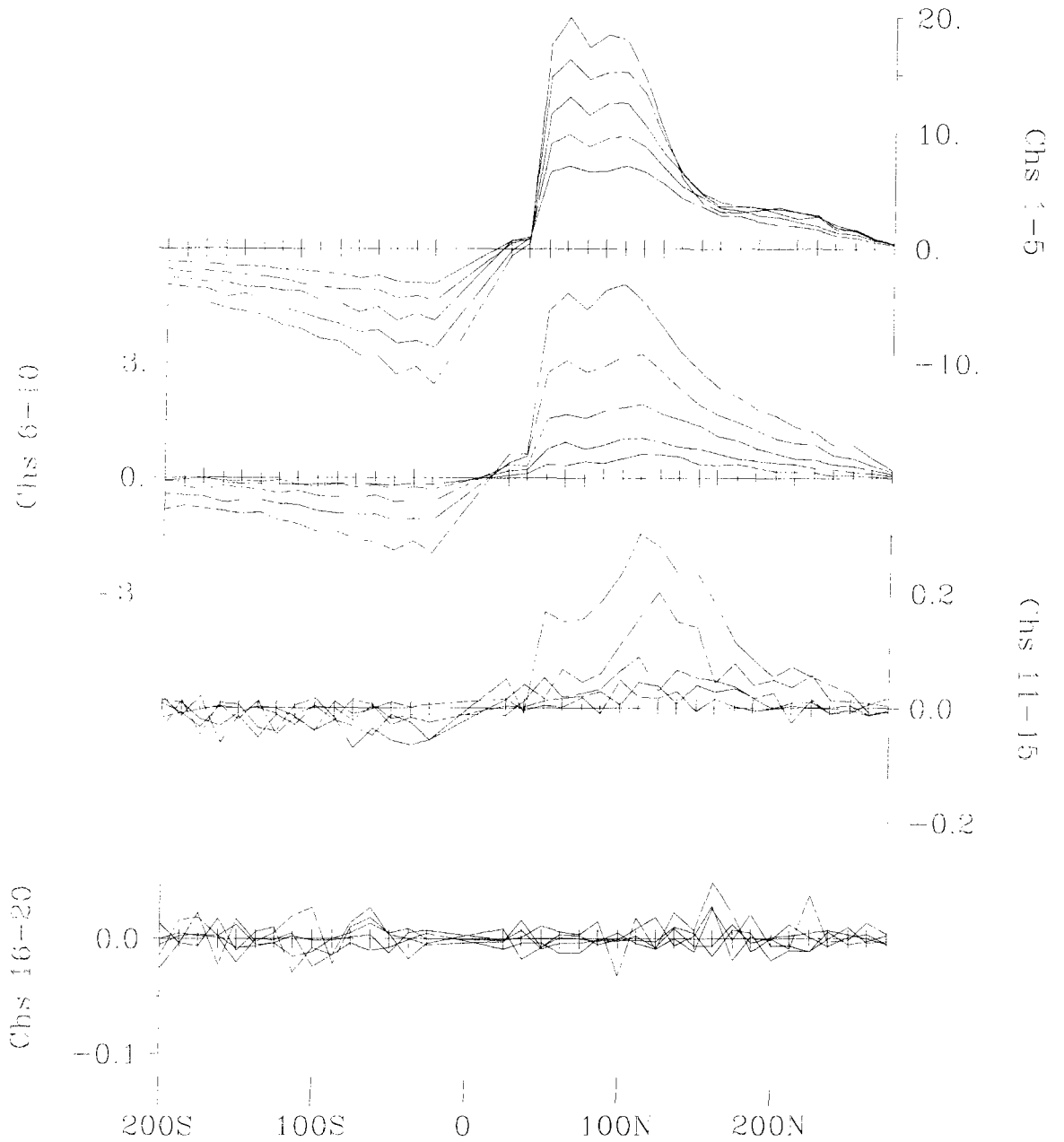
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - pasitive north
	Hy - positive west
Survey Date:	Sept.20, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-100+00E



Line 100+00E – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

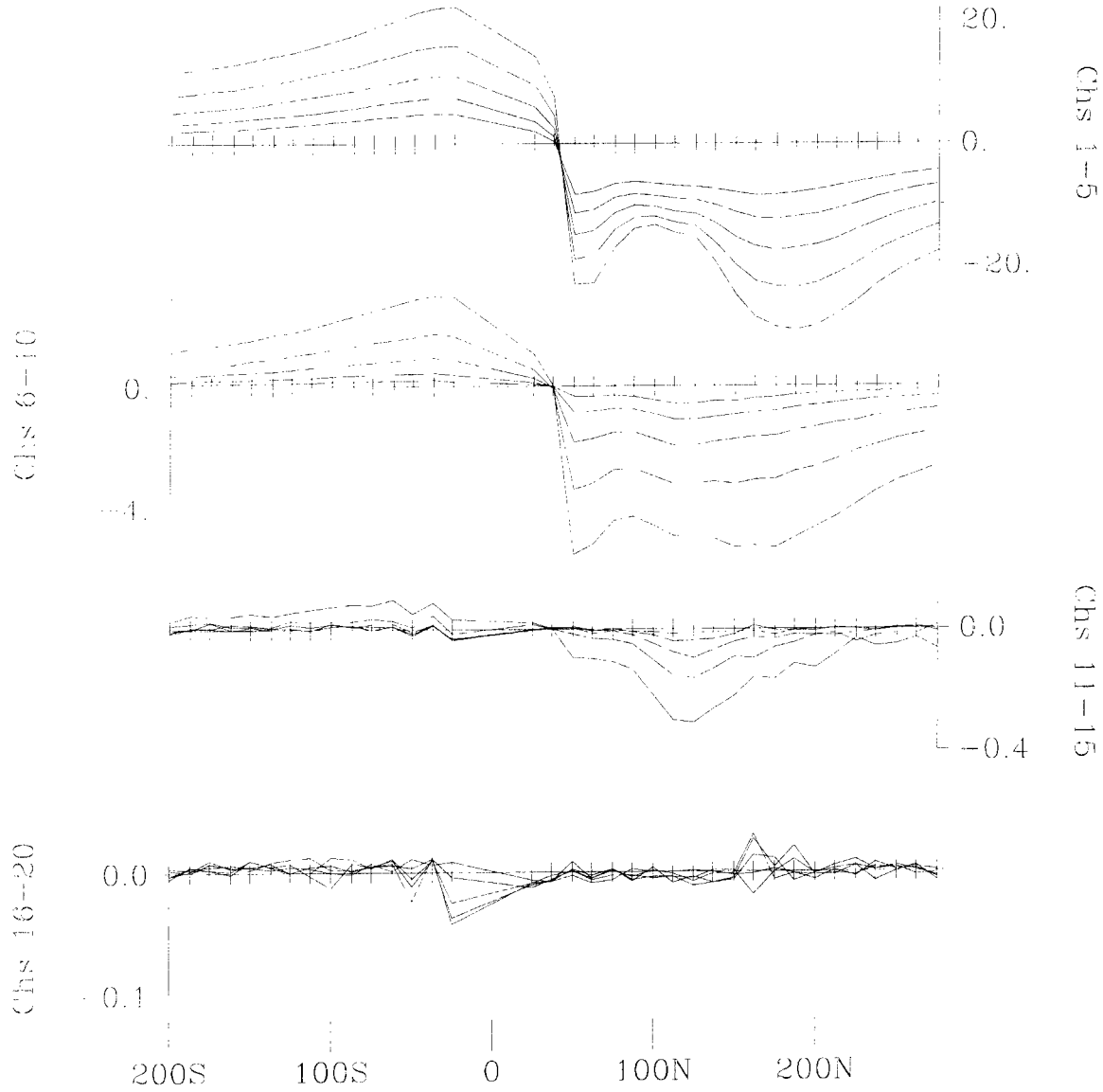
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.20, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics FM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-100+00E



Line 100+00E – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

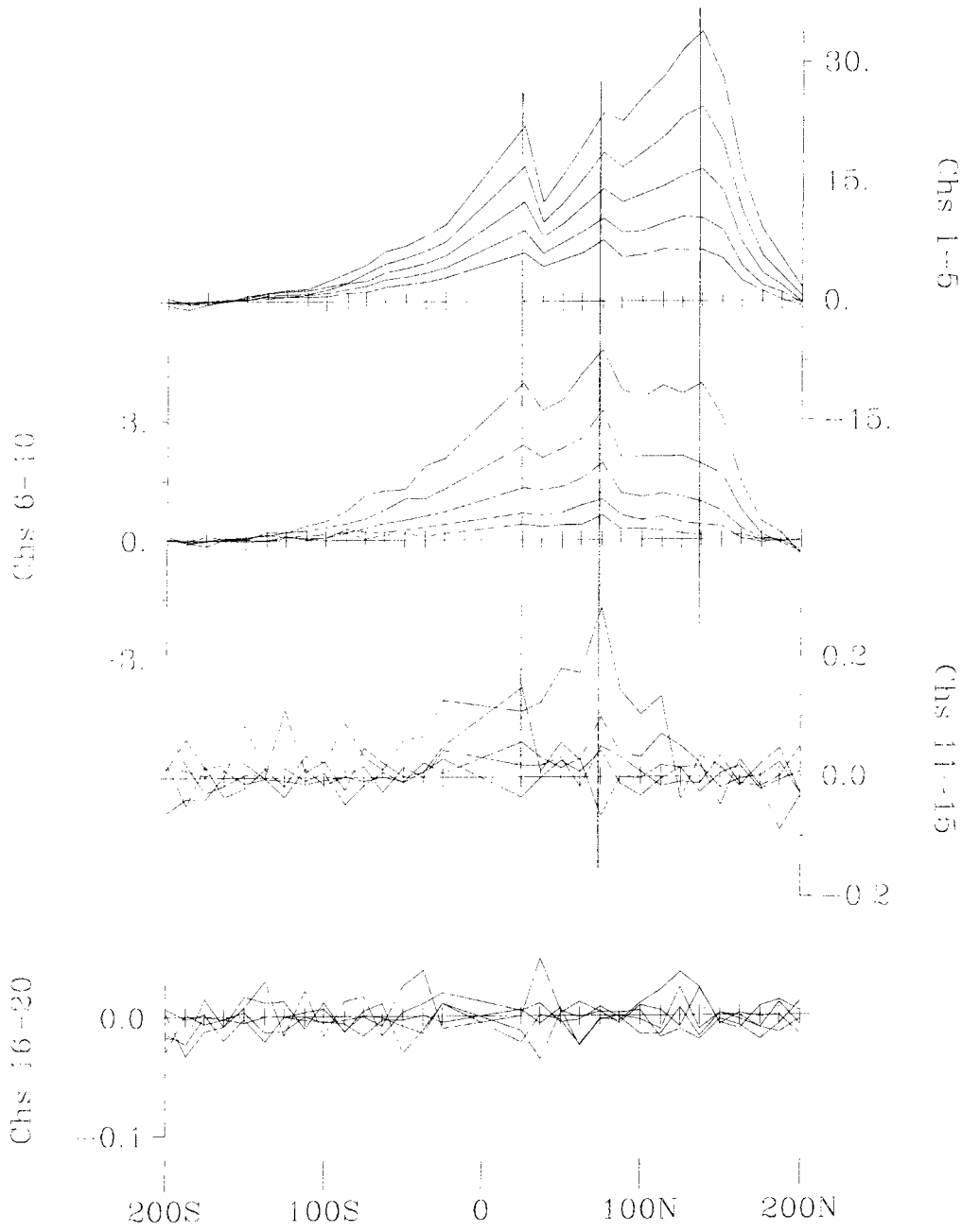
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.20, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-100+00E



Line 1+50E – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

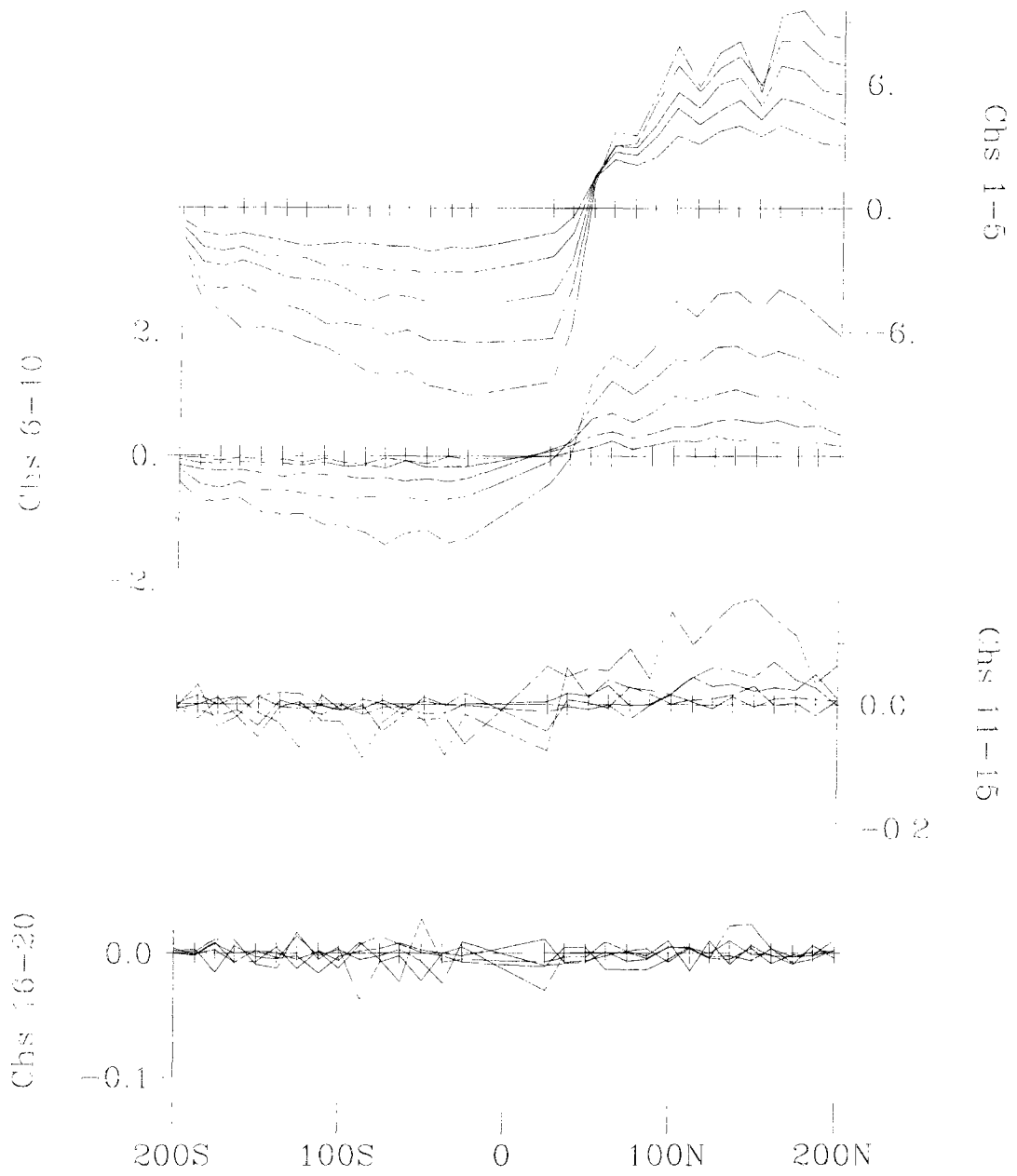
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept.21, 2007
Instrumentation:	Rx = & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-1+50E



Line 1+50E – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

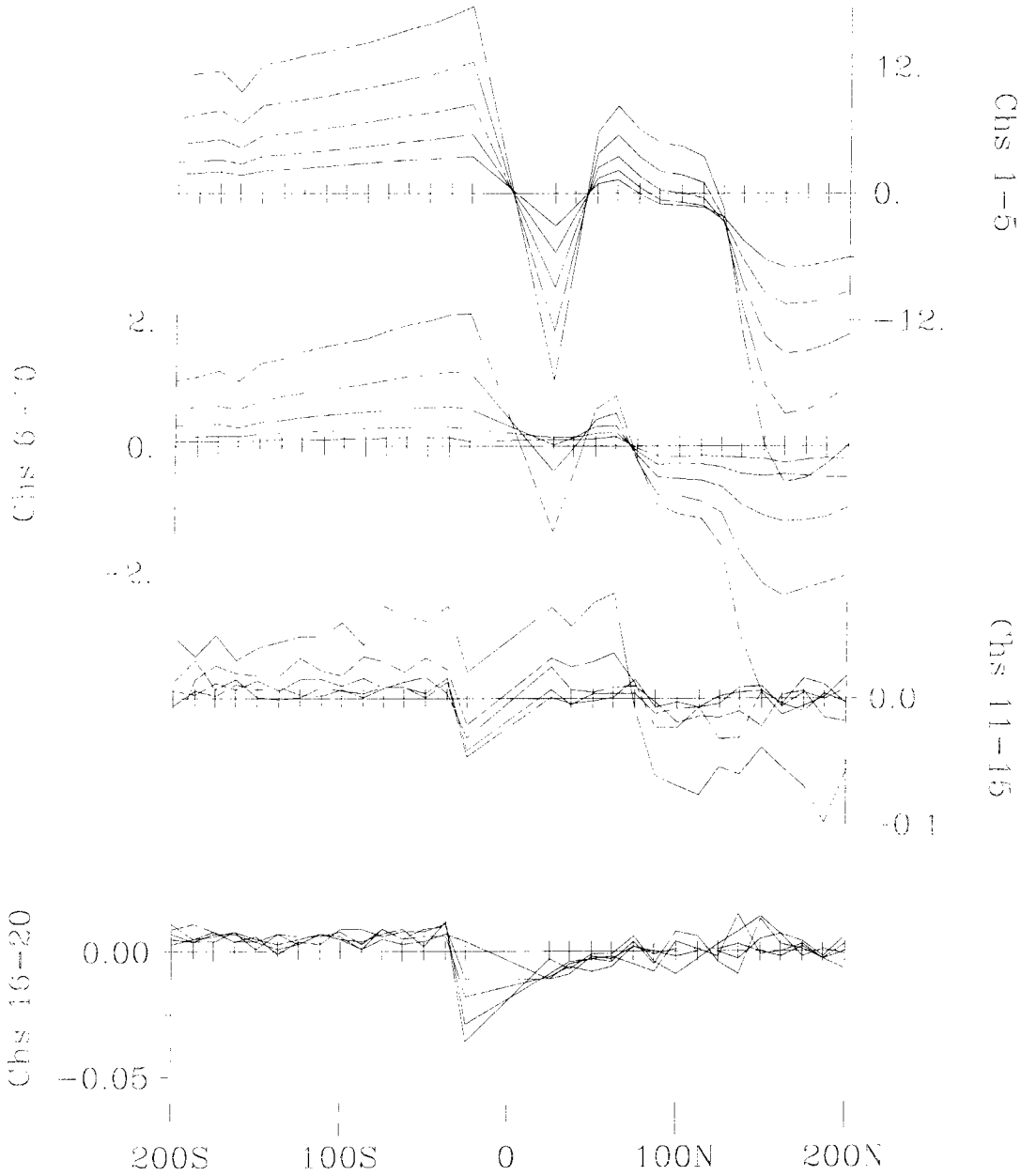
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.21, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-1+50E



Line 1+50E – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

Secondary Electromagnetic Field (dB/dt)

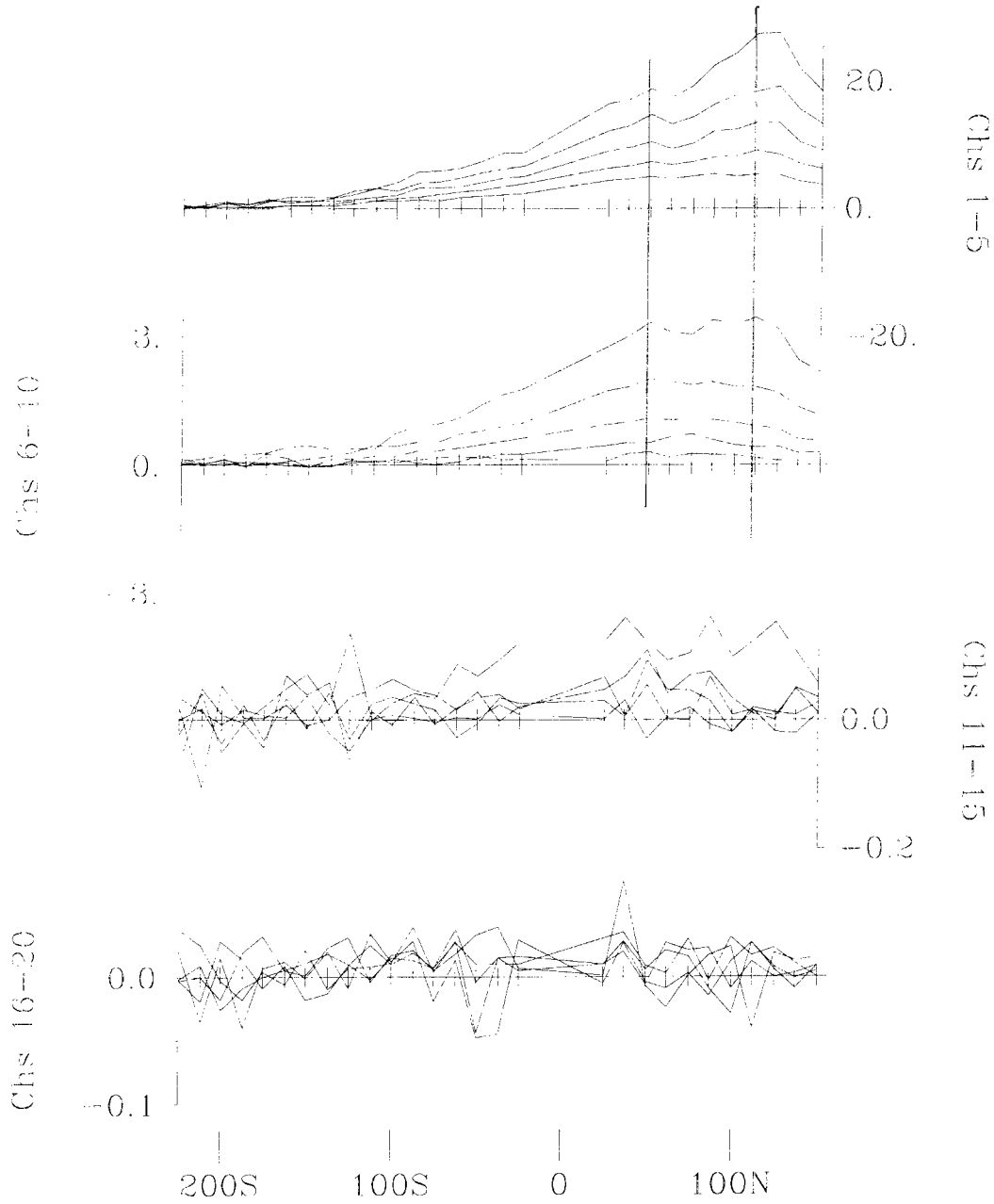
Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.21, 2007
Instrumentation:	Rx =
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-1+50E

Start 25m N ?



Line 2+00E – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

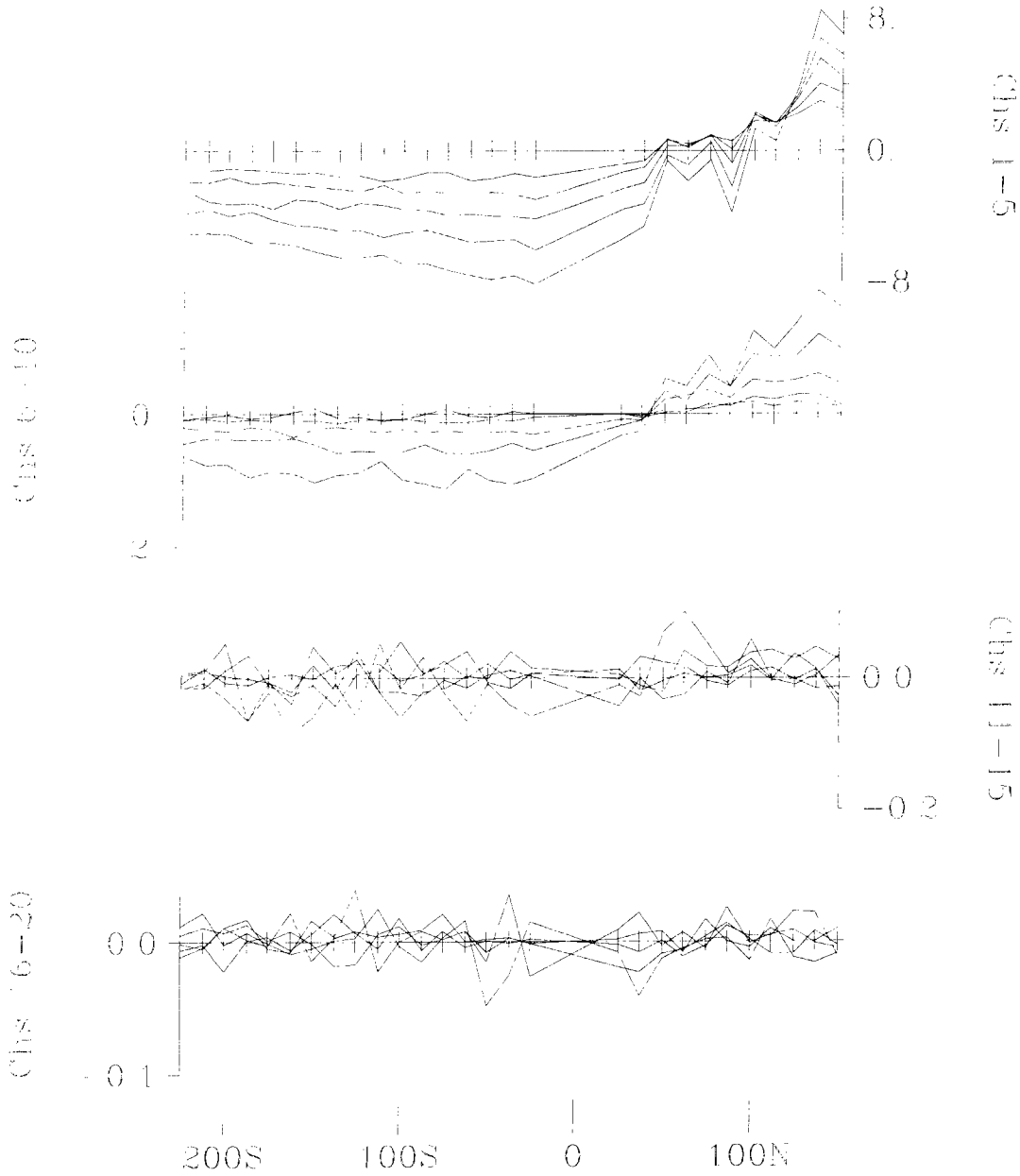
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north Hy - positive west
Survey Date:	Sept.21, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-2+00E



Line 200+00E – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

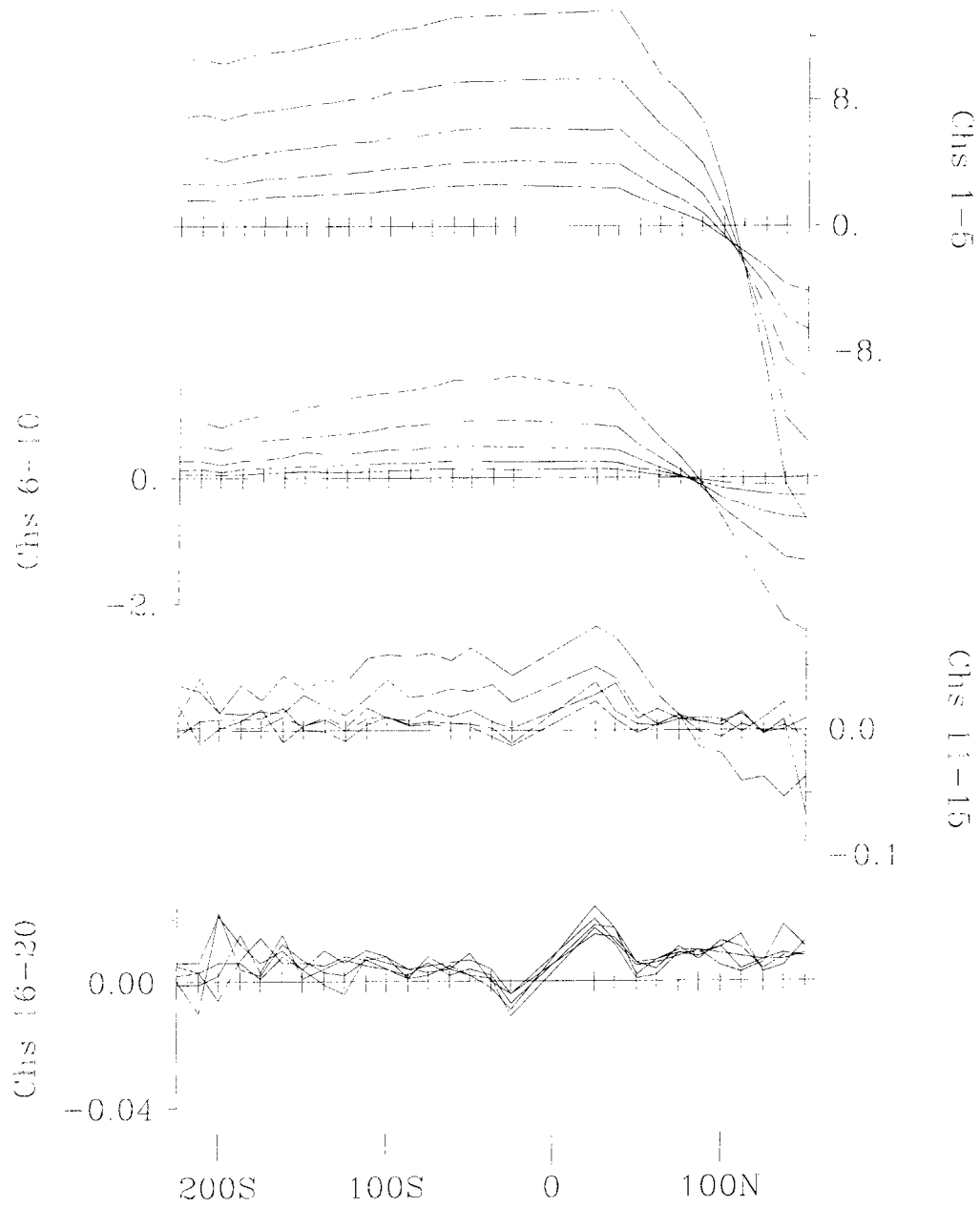
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.21, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-200+00E



Line 2+00E – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

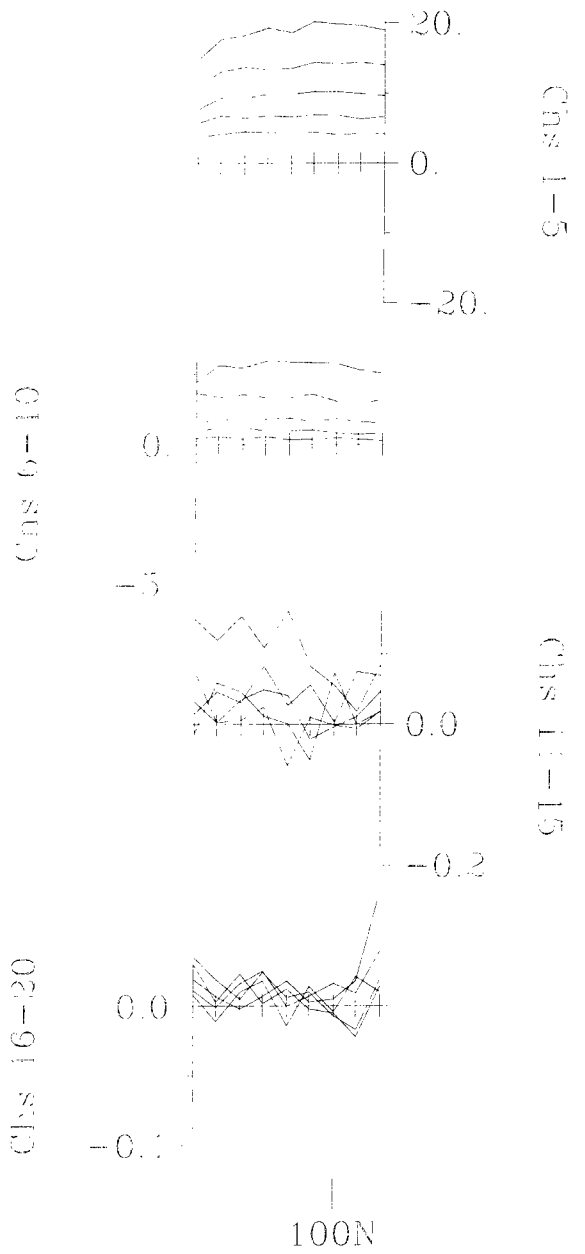
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W-2+50E;3+00S-0+00N
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.21, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-2+00E



Line 250+00E – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

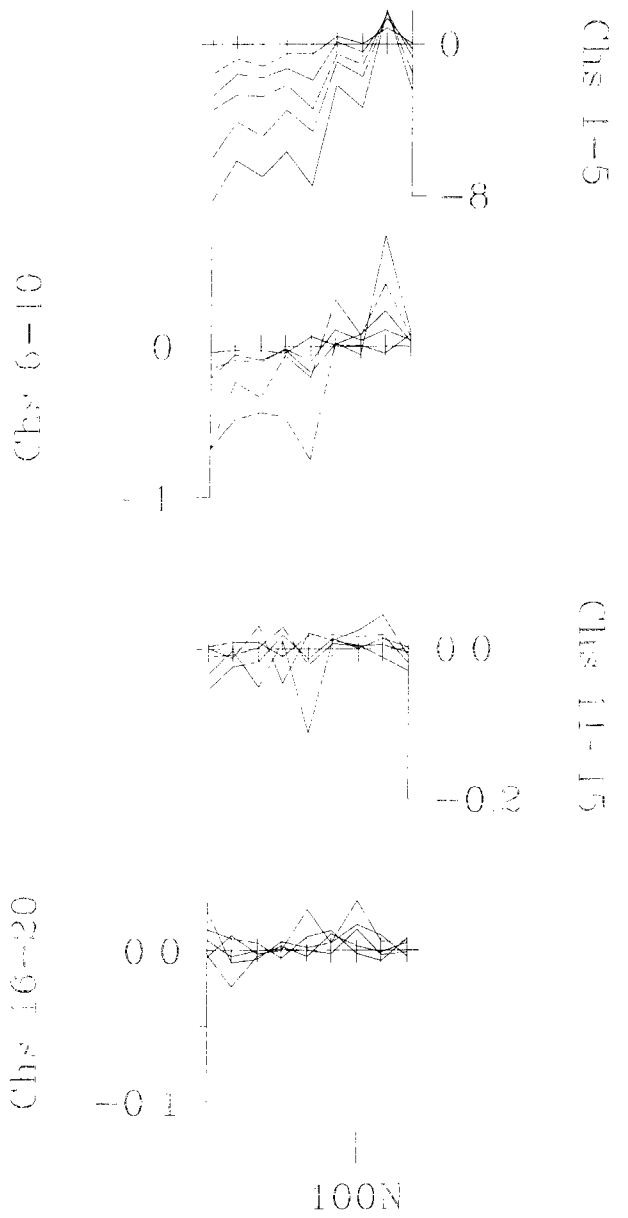
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Locotion:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.21, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-X-250+00E



Line 250+00E – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

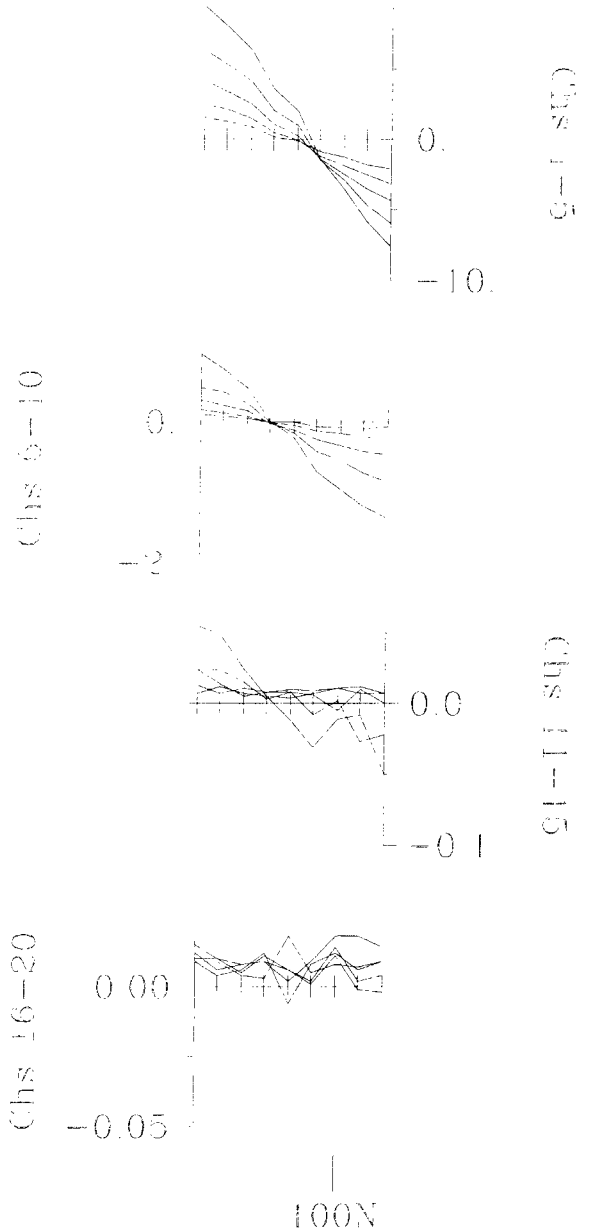
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Location:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west
Survey Date:	Sept.21, 2007
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Y-250+00E



Line 250+00E – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

LPTEM FIXED-LOOP PROFILING SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	3 Hz (50% duty cycle)
Tx Loop Size:	300m X 550m
Tx Loop Locotion:	L3+00W @ 0+00 ; L2+50E @ 3+00S
Transmitter Current:	22.0 Amps
Transmitter Turn-Off Time:	310 us
Station Interval:	12.5m
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north
	Hy - positive west

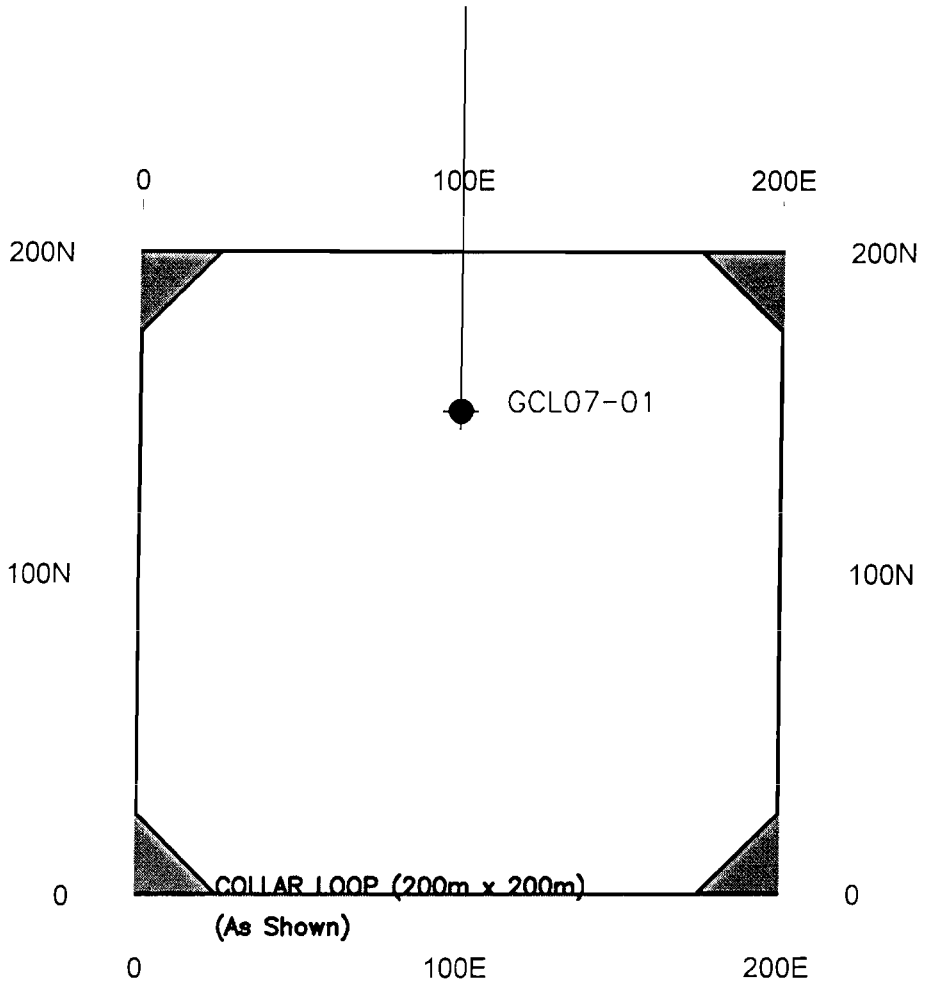
Survey Date:	Sept.21, 2007
Instrumentotion:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-57/67 (3500W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-4AXIS-Z-250+00E

GCL07-01 – BOREHOLE & LOOP LOCATION MAP



Scale 1:2500

25 0 25 50 75 100 125

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

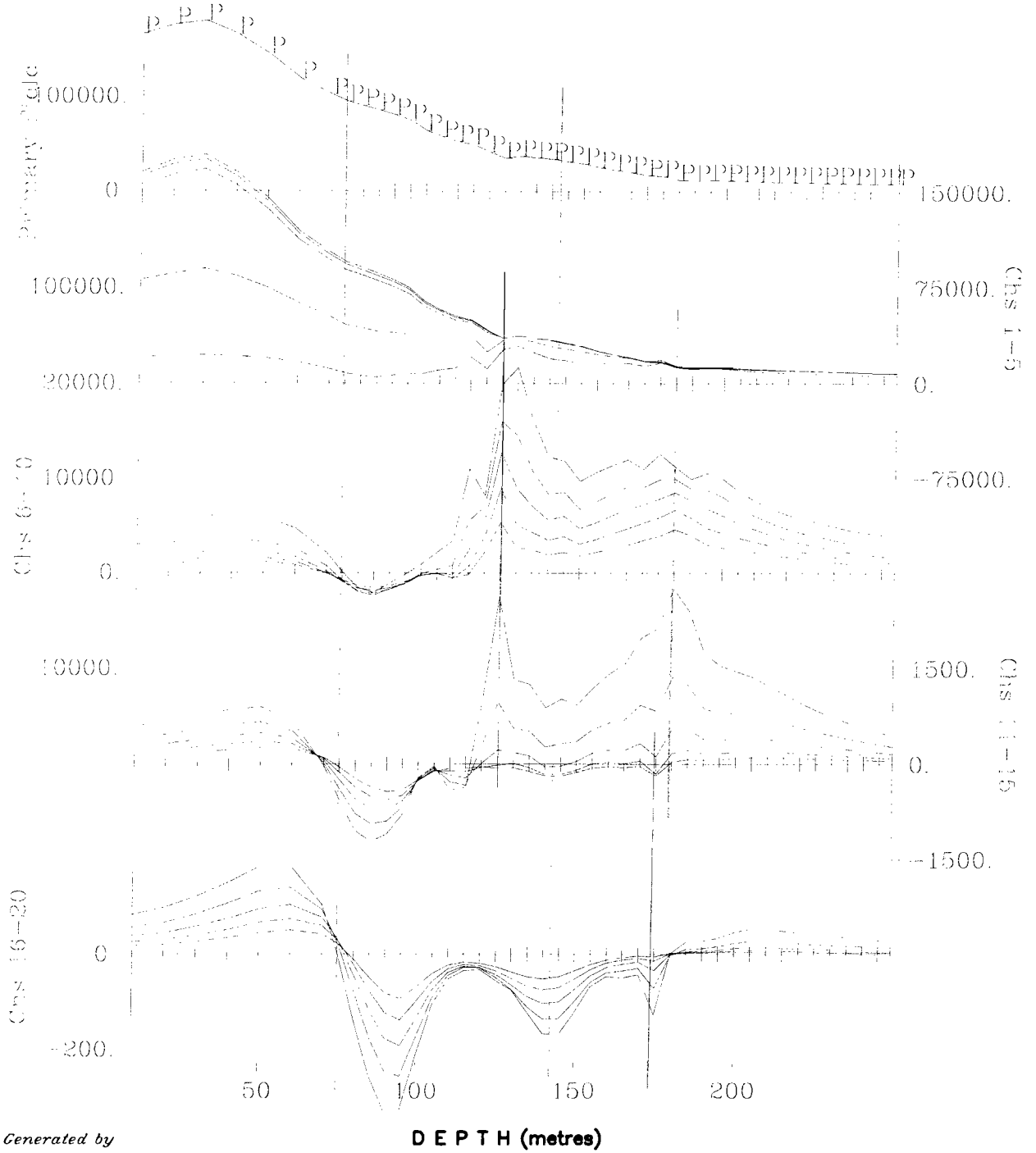
BOREHOLE & LOOP LOCATION MAP
GCL07-01

Borehole Parameters:		
	DDH #1 =	GCL07-01
	Location =	100E, 150N
	Azimuth & Dip =	325, -55
	DDH #2 =	
	Location =	
	Azimuth & Dip =	
	DDH #3 =	
	Locotion =	
	Azimuth & Dip =	

Survey Date:	May 29, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. #: CA00500C-BHTEM-LOOPLOC-GCL07-01

Map Generated by



Map Generated by

Borehole GCL07-01 – Z Component
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

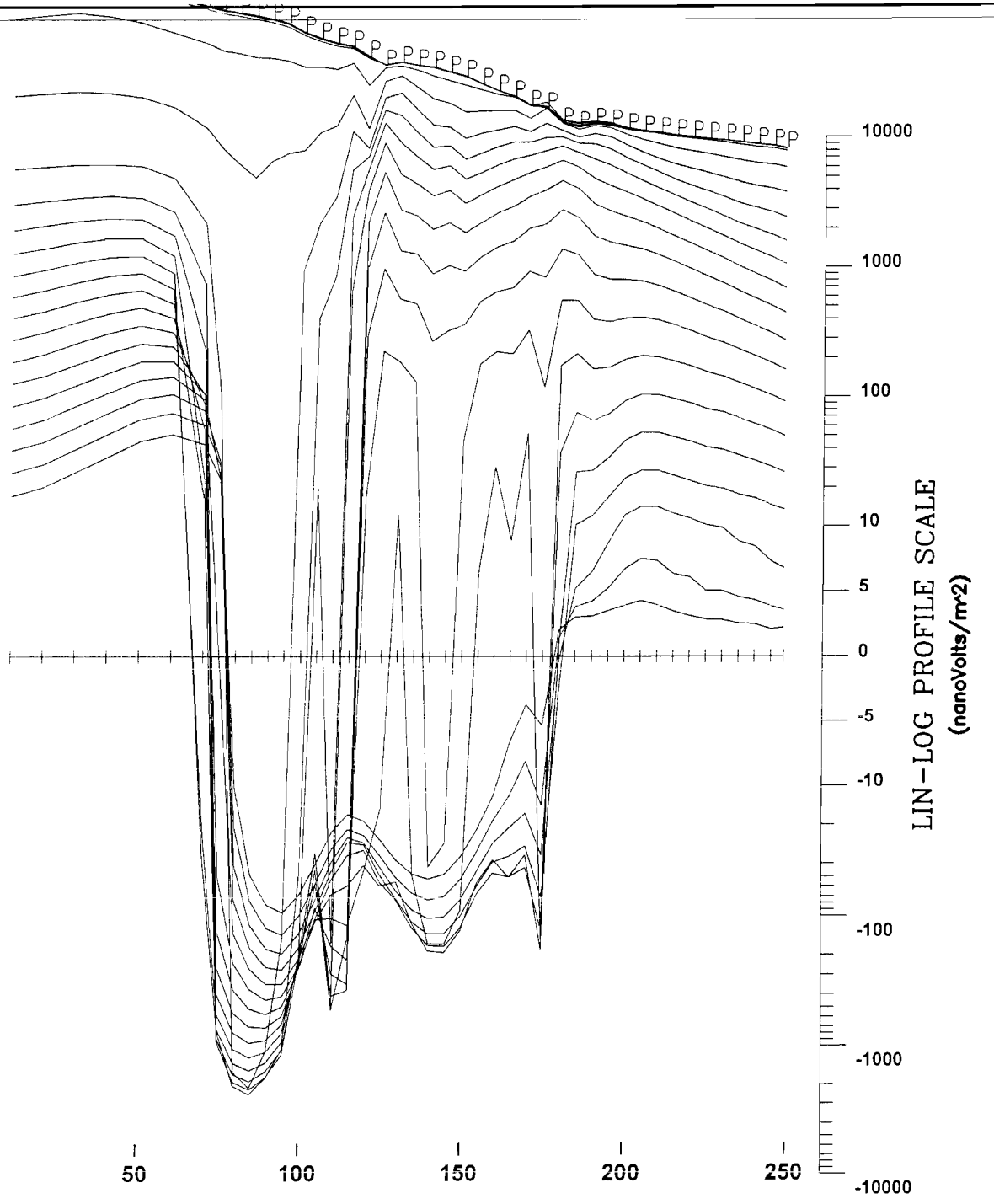
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

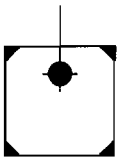
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current.	12.9 Amps
Tx Turn-Off-Time and Rx Deloy.	400 us, -80 us
Borehole Location:	500094E, 5348163N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nonoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Crass Component Rotation:	using Tilt Meter Angles

Survey Date:	Moy 29, 2006
Instrumentation:	Rx = Digital Protem (30 Chonnels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Z-GCL07-01-C



Map Generated by



Borehole GCL07-01 - Z Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

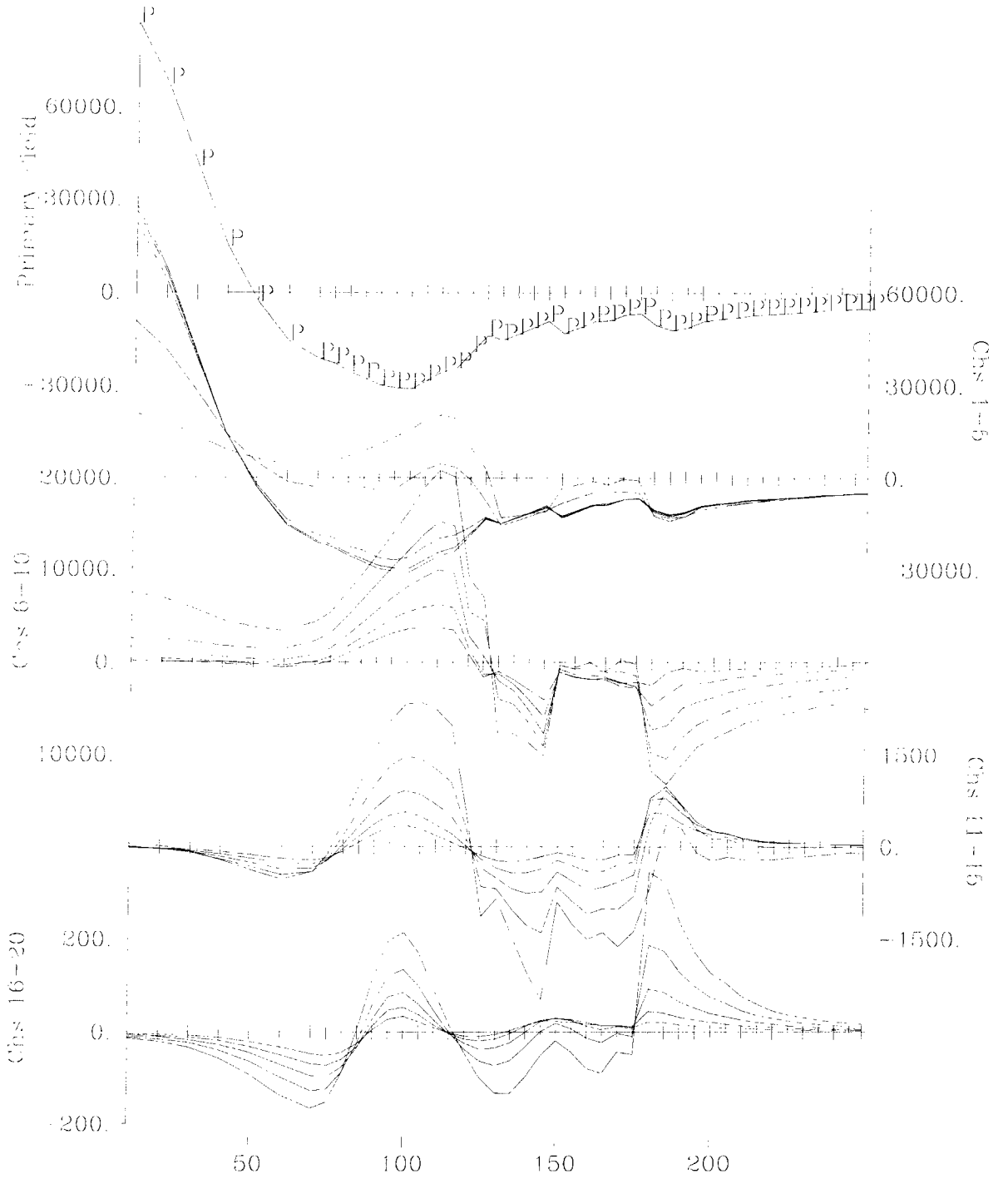
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	12.9 Amps
Tx Turn-Off-Time and Rx Delay:	400 us -80 us
Borehole Location:	500094E, 5348163N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 29, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Z-Tilt-GCL07-01-C



Map Generated by

Borehole GCL07-01 – X Component
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

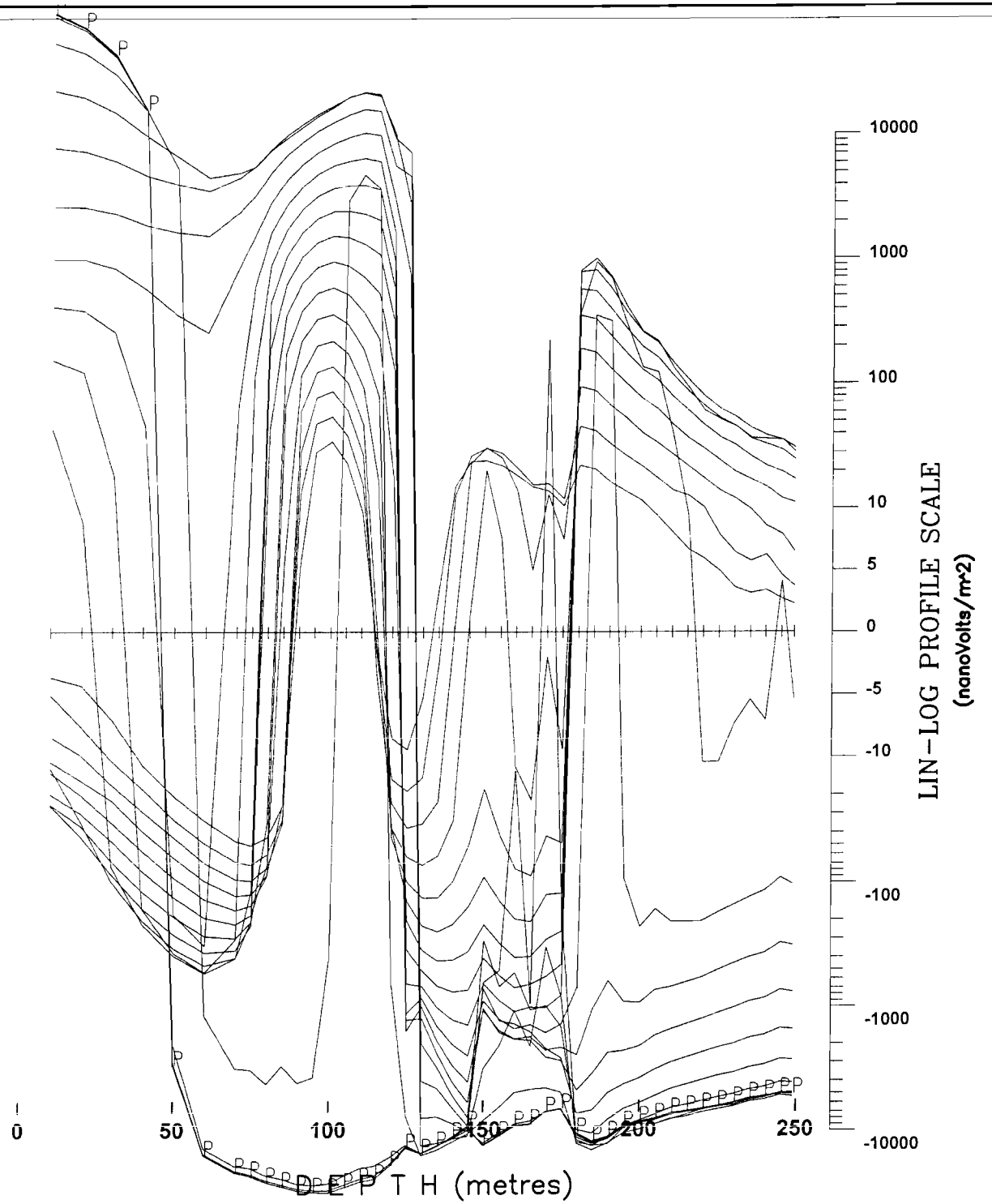
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	12.9 Amps
Tx Turn-Off-Time and Rx Delay:	400 us, -80 us
Borehole Location:	500094E, 5348163N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nonoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Crass Component Rotation:	using Tilt Meter Angles

Survey Date:	May 29, 2006
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800 W)

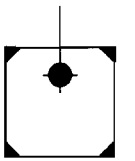
Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BH4A-Tiltrot-X-GCL07-01-C



Map Generated by



Borehole GCL07-01 - X Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

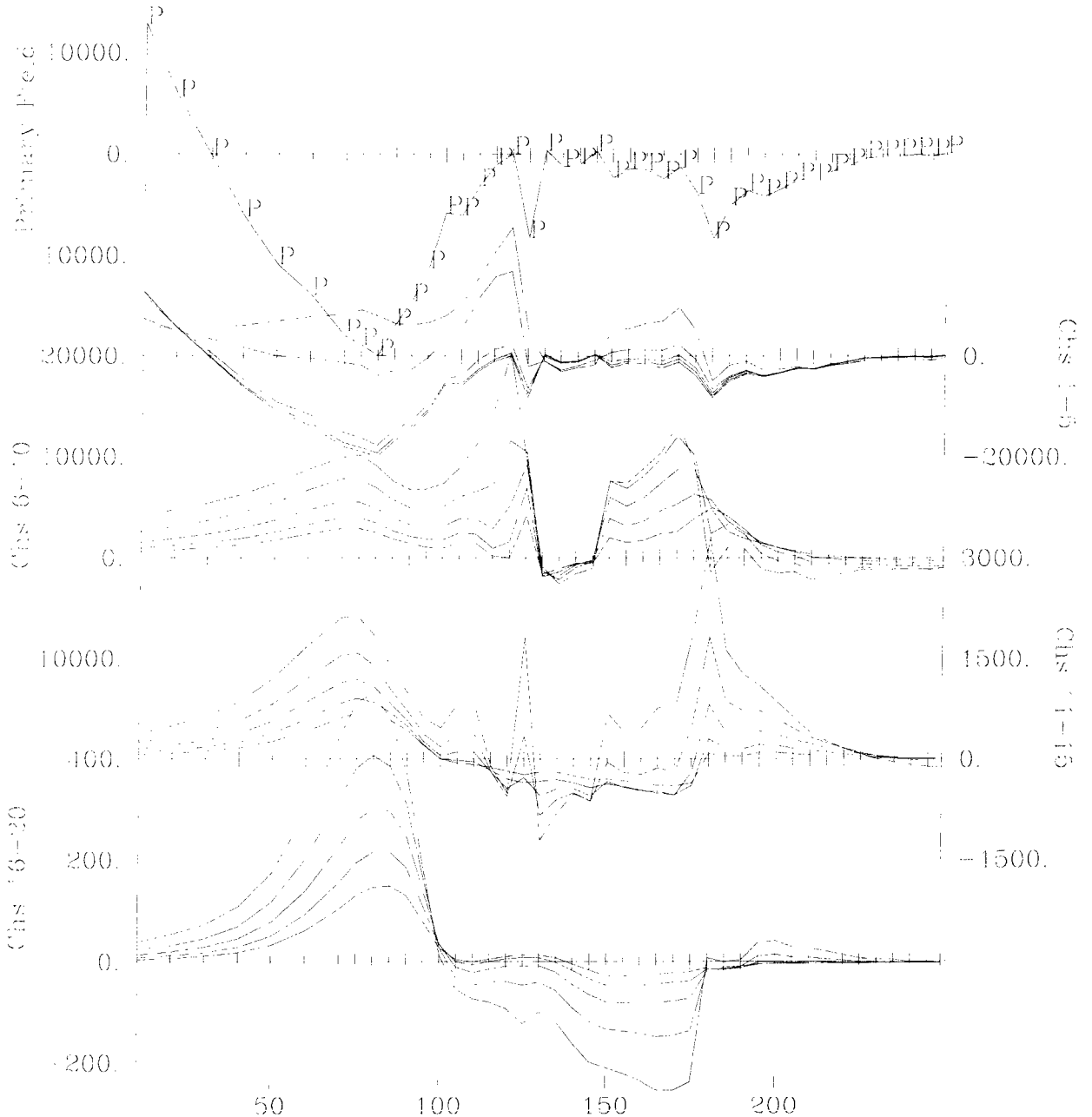
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	12.9 Amps
Tx Turn-Off-Time and Rx Delay:	400 us -80 us
Borehole Location:	500094E, 5348163N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 29, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-X-Tilt-GCL07-01-C



Map Generated by

Borehole GCL07-01 – Y Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

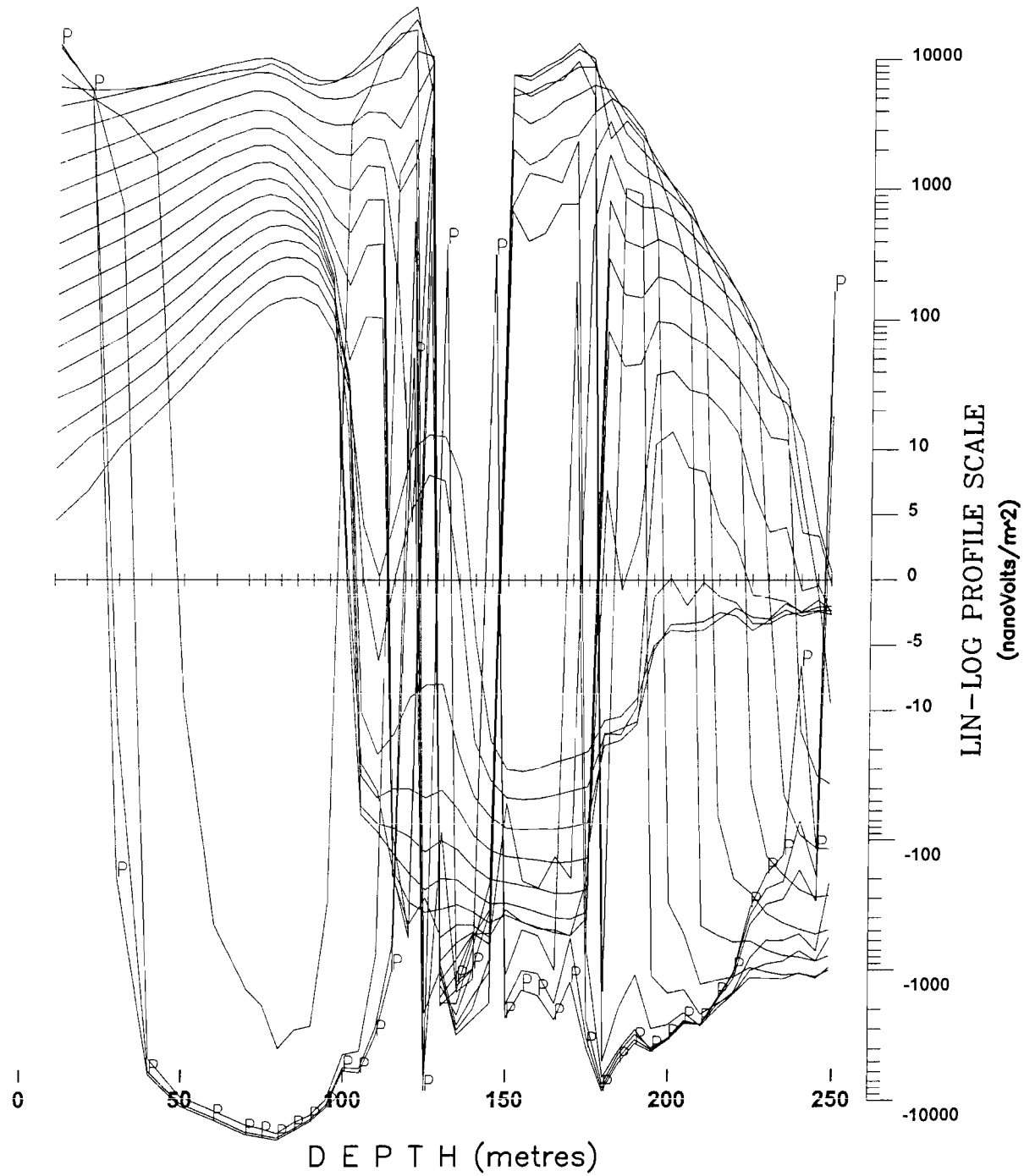
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	12.9 Amps
Tx Turn-Off-Time and Rx Delay.	400 us, -80 us
Borehole Location:	500094E, 5348163N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientotion:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 29, 2006
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Y-GCL07-01-C



Map Generated by

Borehole GCL07-01 - Y Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

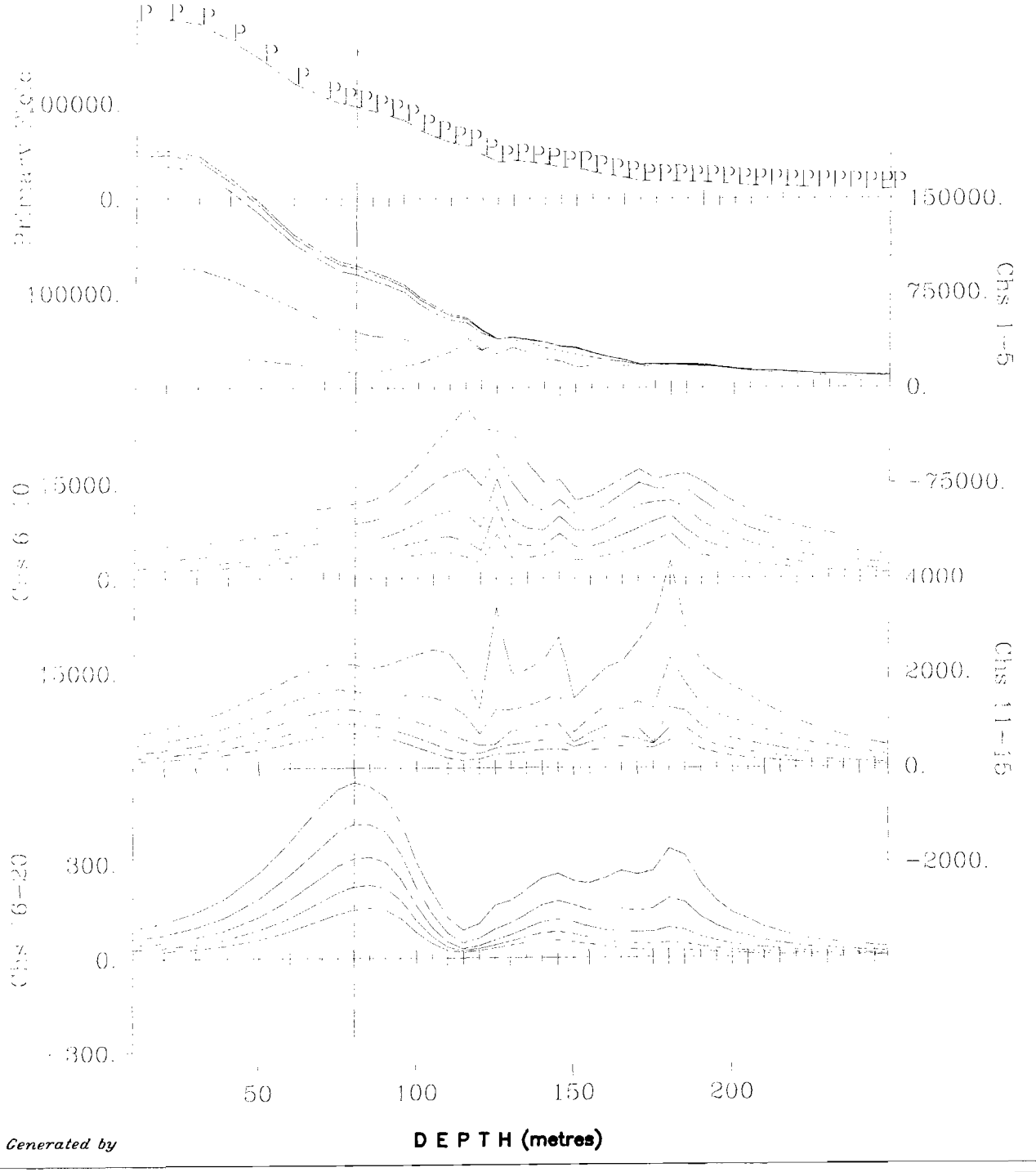
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	12.9 Amps
Tx Turn-Off-Time and Rx Delay:	400 us -80 us
Borehole Location:	500094E, 5348163N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 29, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Y-Tilt-GCL07-01-C



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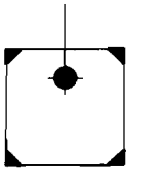


Borehole GCL07-01 - Total Field
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

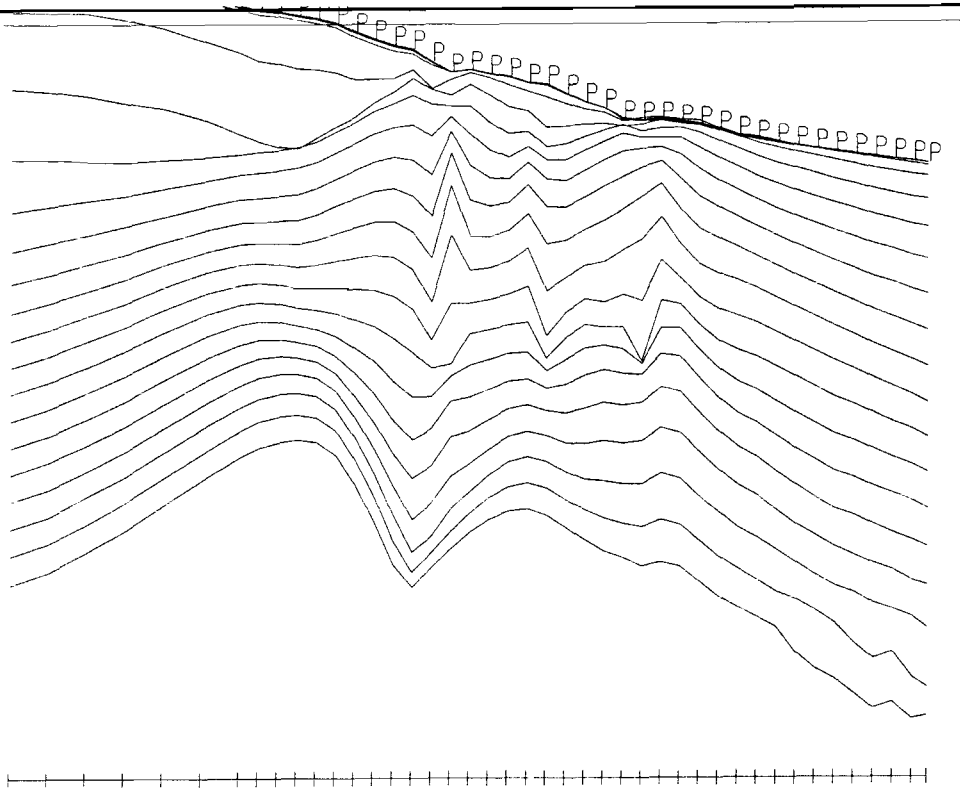
Secondary Electromagnetic Field (dB/dt)

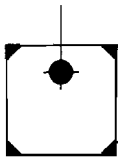
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	12.9 Amps
Tx Turn-Off-Time and Rx Delay:	400 us, -80 us
Borehole Location:	500094E, 5348163N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 29, 2006
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BH4A-Tiltrot-TF-GCL07-01-C





Borehole GCL07-01 - Total Field

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

10000
1000
100
10
5
0
-5
-10
-100
-1000
-10000

LIN-LOG PROFILE SCALE (nanoVolts/m^2)

0 50 100 150 200 250

D E P T H (metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	12.9 Amps
Tx Turn-Off-Time and Rx Delay:	400 us -80 us
Borehole Location:	500094E, 5348163N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientotion:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 29, 2007
Instrumentation:	Rx = Digital Protern (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800 W)

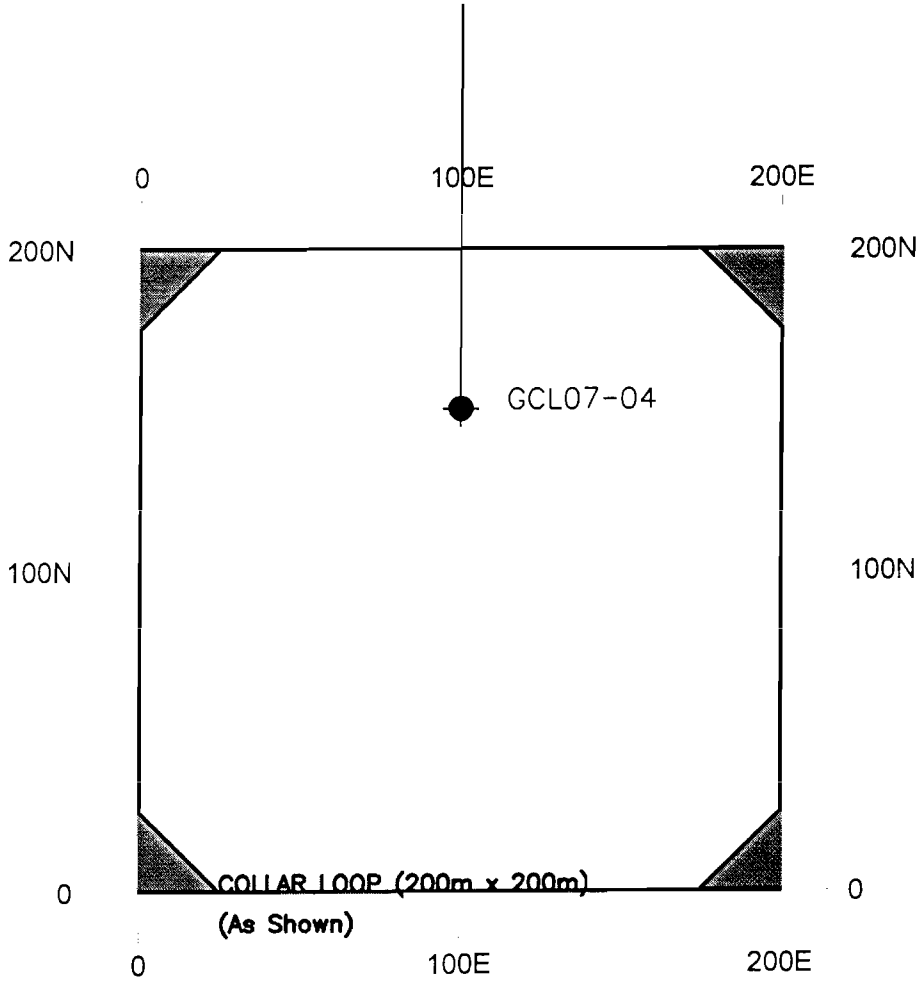
Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-TF-Tilt-GCL07-01-C

Map Generated by

GCL07-04 – BOREHOLE & LOOP LOCATION MAP



Scale 1:2500

25 0 25 50 75 100 125

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

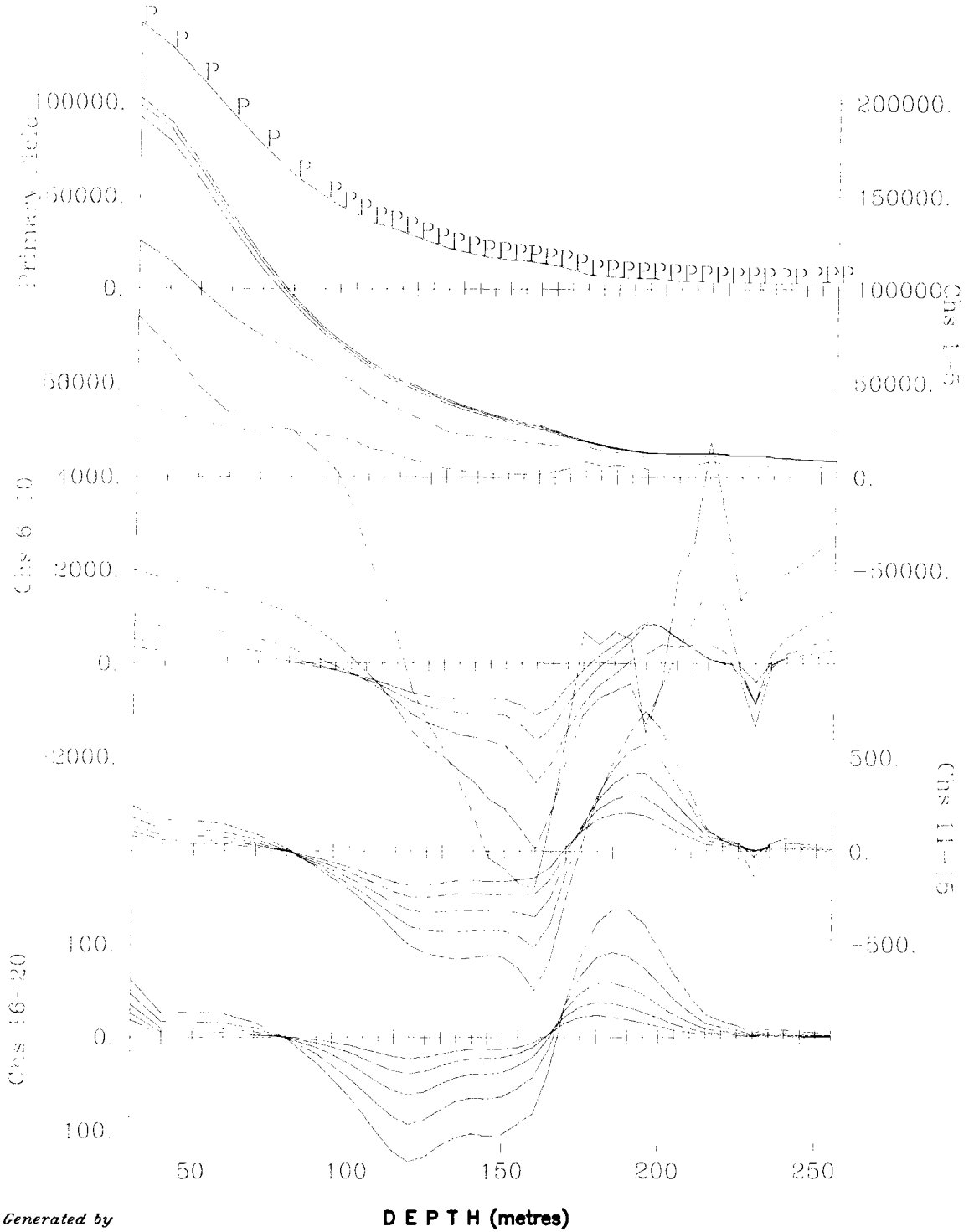
BOREHOLE & LOOP LOCATION MAP
GCL07-04

Borehole Parameters:	DDH #1 =	GCL07-04
	Location =	100E, 150N
	Azimuth & Dip =	325, -55
	DDH #2 =	
	Location =	
	Azimuth & Dip =	
	DDH #3 =	
	Location =	
	Azimuth & Dip =	

Survey Date:	May 26, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m coble
	Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. #: CA00500C-BHTEM-LOOPLOC-GCL07-04

Map Generated by



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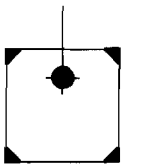


Borehole GCL07-04 – Z Component
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

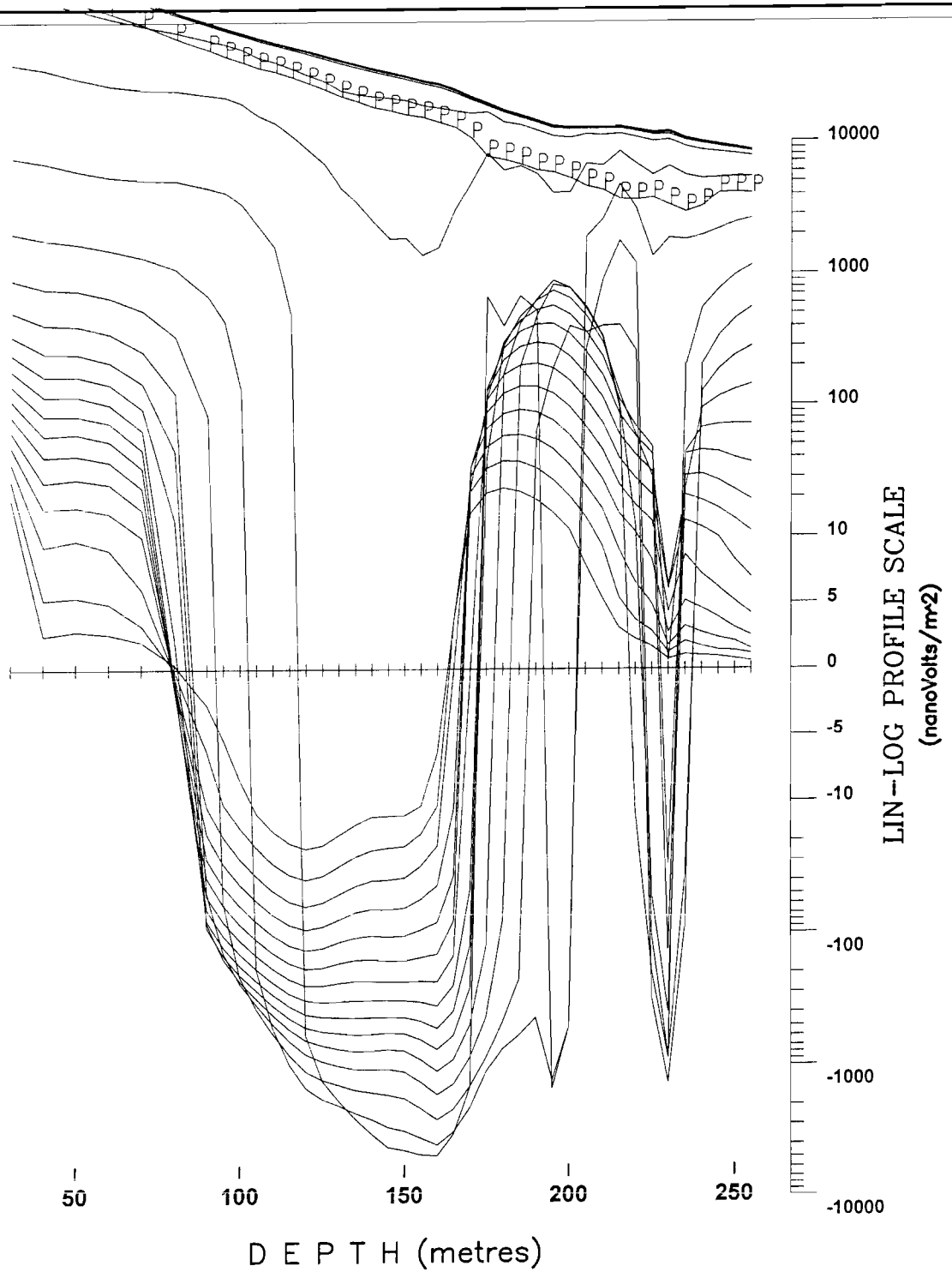
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Locotion:	0-200E;0-200N
Transmitter Current.	13.6 Amps
Tx Turn-Off-Time and Rx Delay:	410 us, -80 us
Borehole Location:	498137E, 5349441N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 26, 2006
Instrumentation:	Rx = Digitol Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Z-GCL07-04-C



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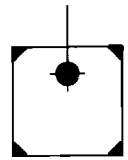


Borehole GCL07-04 – Z Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

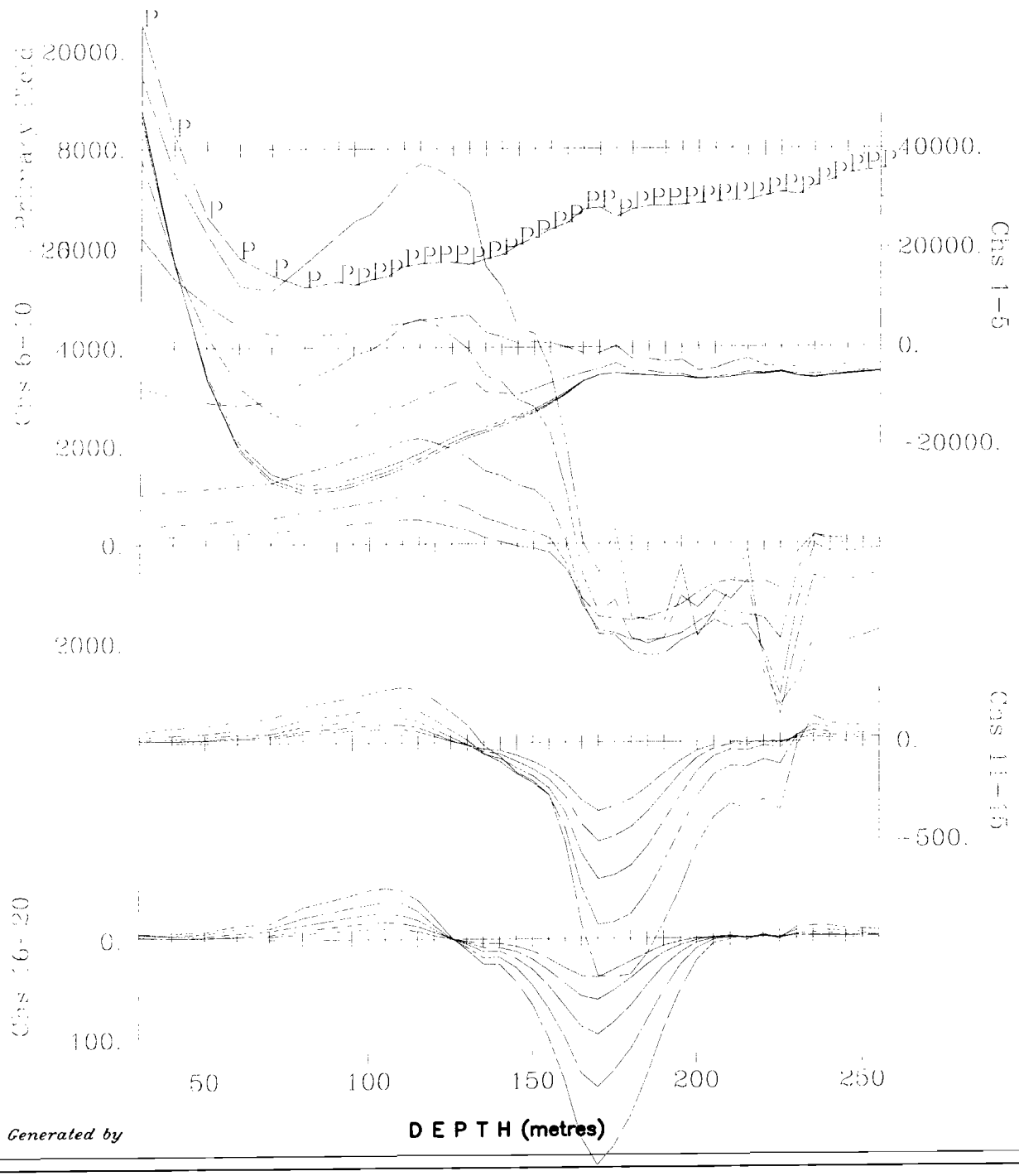
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E, 0-200N
Transmitter Current:	13.6 Amps
Tx Turn-Off-Time and Rx Delay:	410 us -80 us
Borehole Location:	498137E, 5349441N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 26, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Z-Tilt-GCL07-04-C



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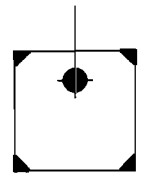


Borehole GCL07-04 - X Component
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

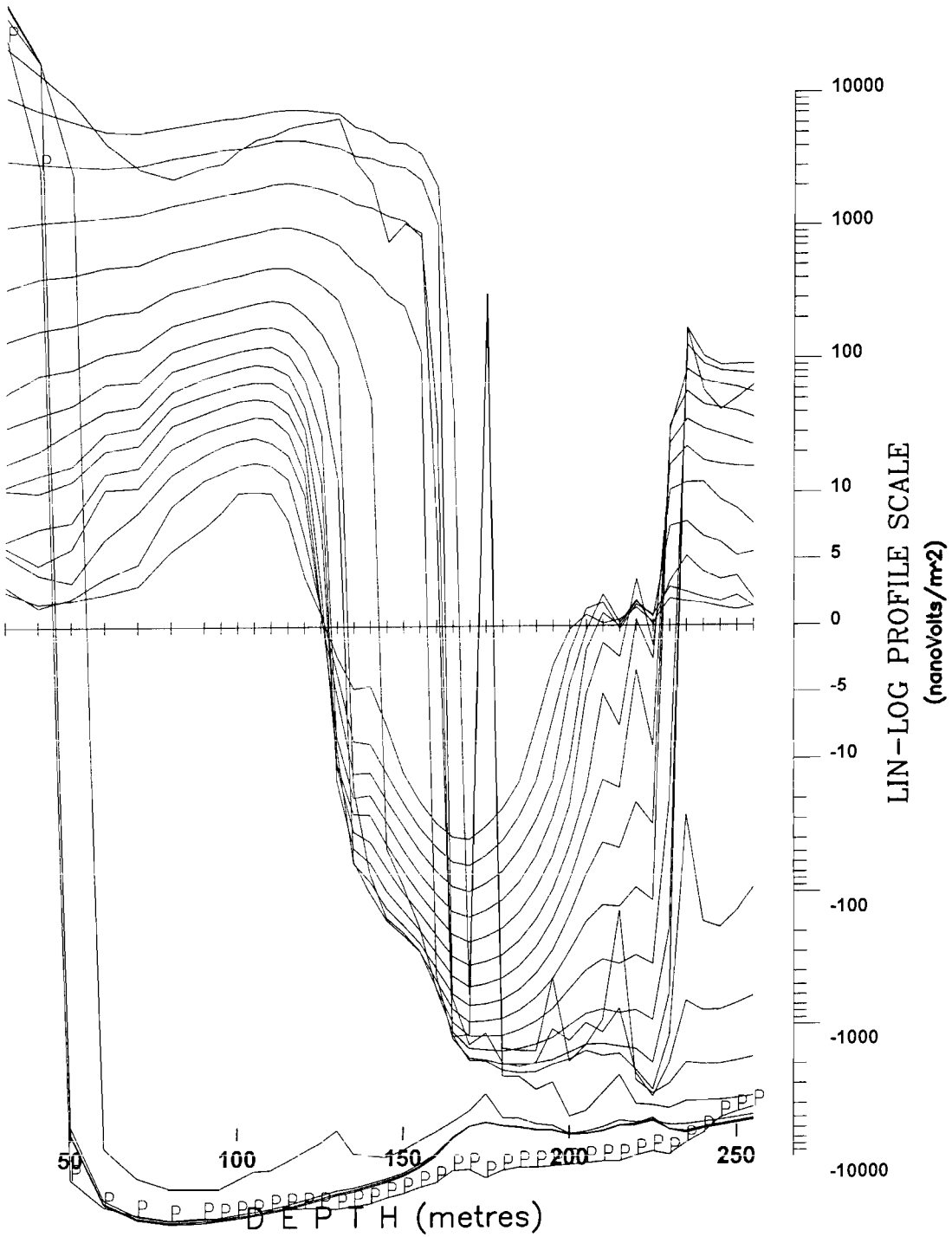
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	13.6 Amps
Tx Turn-Off-Time and Rx Delay:	410 us, -80 us
Borehole Location:	498137E, 5349441N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 26, 2006
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-X-GCL07-04-C



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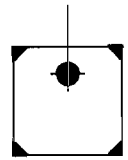


Borehole GCL07-04 – X Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

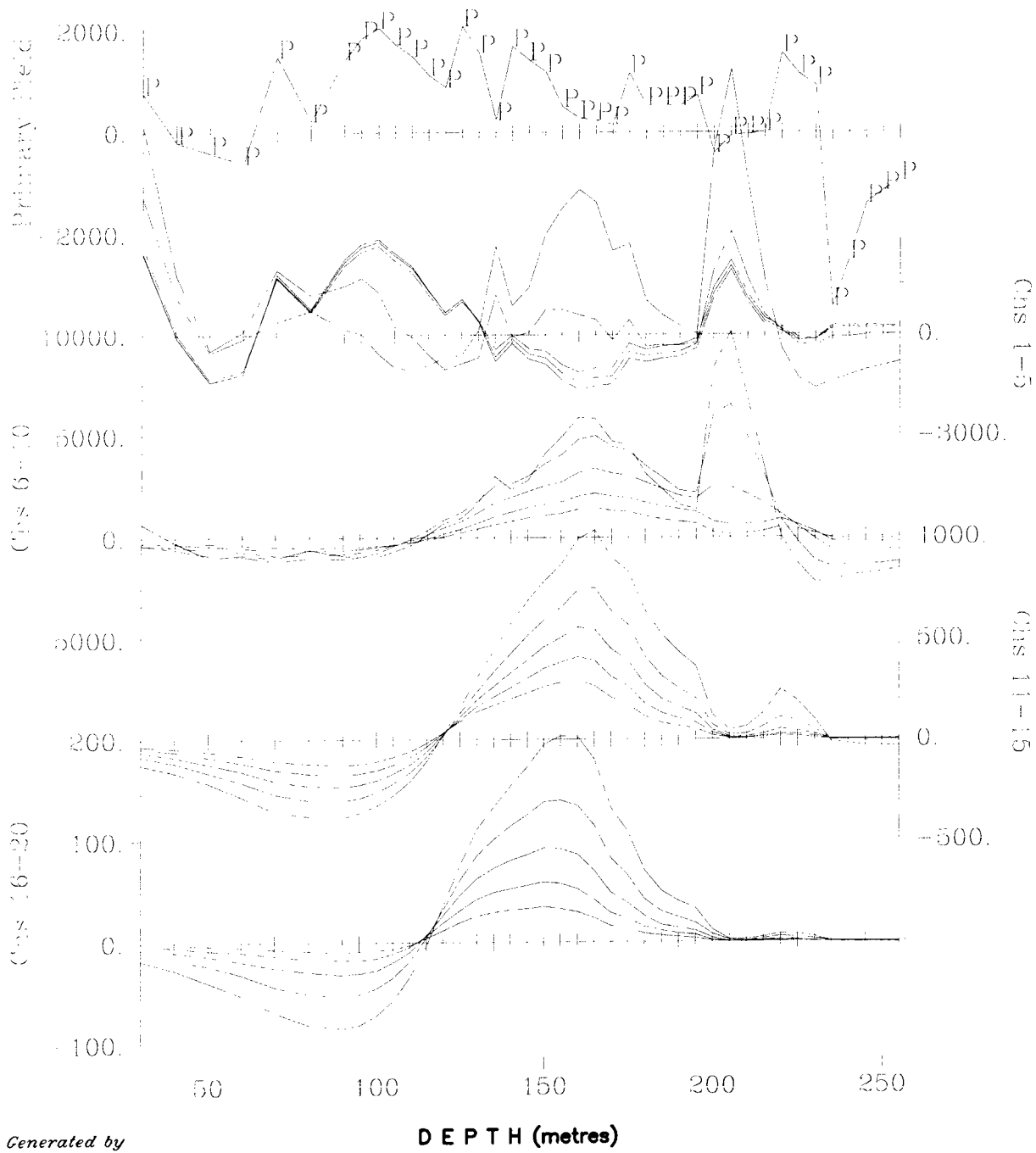
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E, 0-200N
Transmitter Current:	13.6 Amps
Tx Turn-Off-Time and Rx Delay:	410 us -80 us
Borehole Location:	498137E, 5349441N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 26, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-X-Tilt-GCL07-04-C



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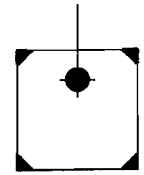


Borehole GCL07-04 - Y Component
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

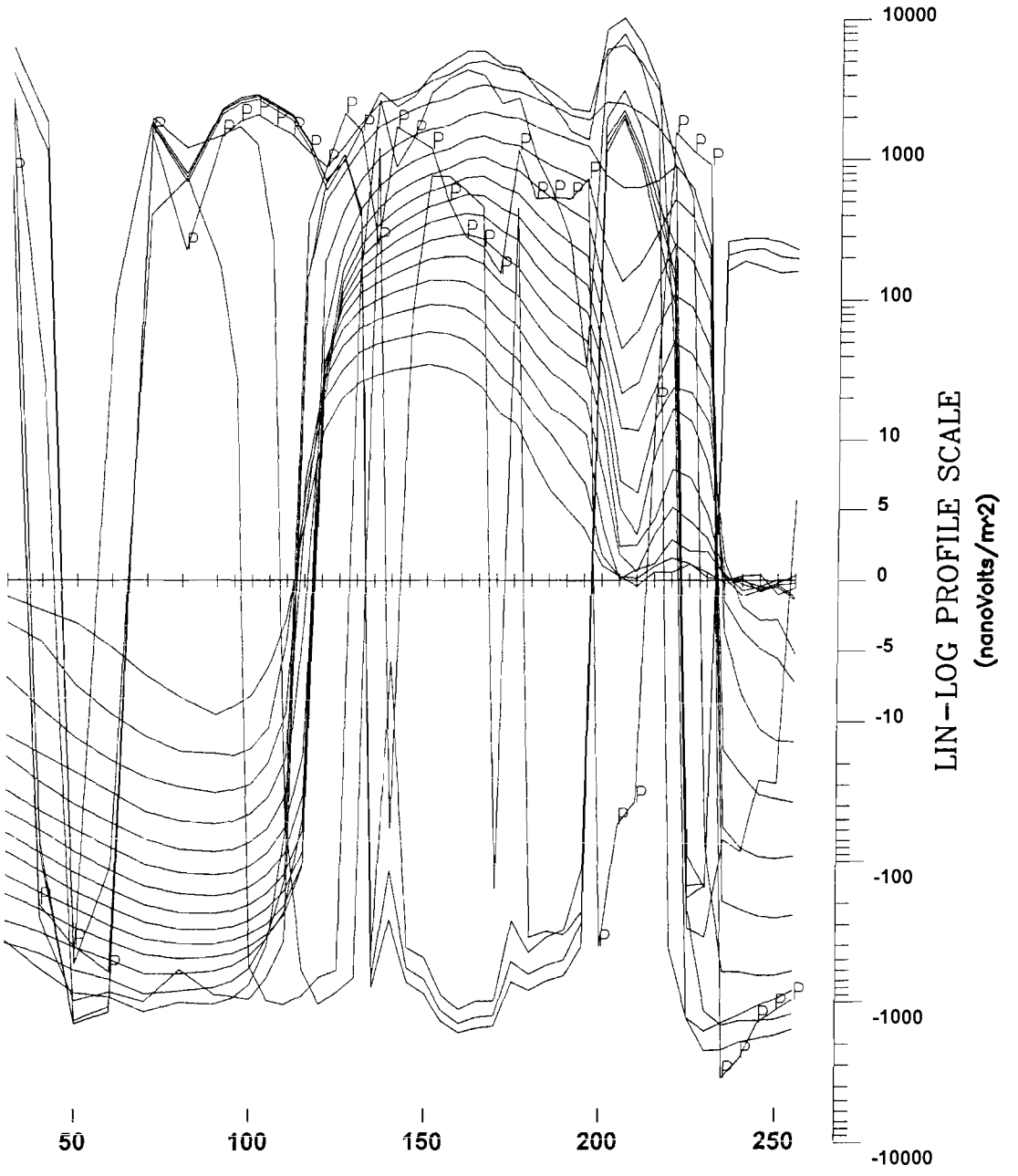
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	13.6 Amps
Tx Turn-Off-Time and Rx Delay:	410 us, -80 us
Borehole Location:	498137E, 5349441N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 26, 2006
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Y-GCL07-04-C



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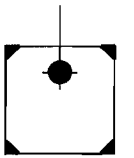


Borehole GCL07-04 – Y Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

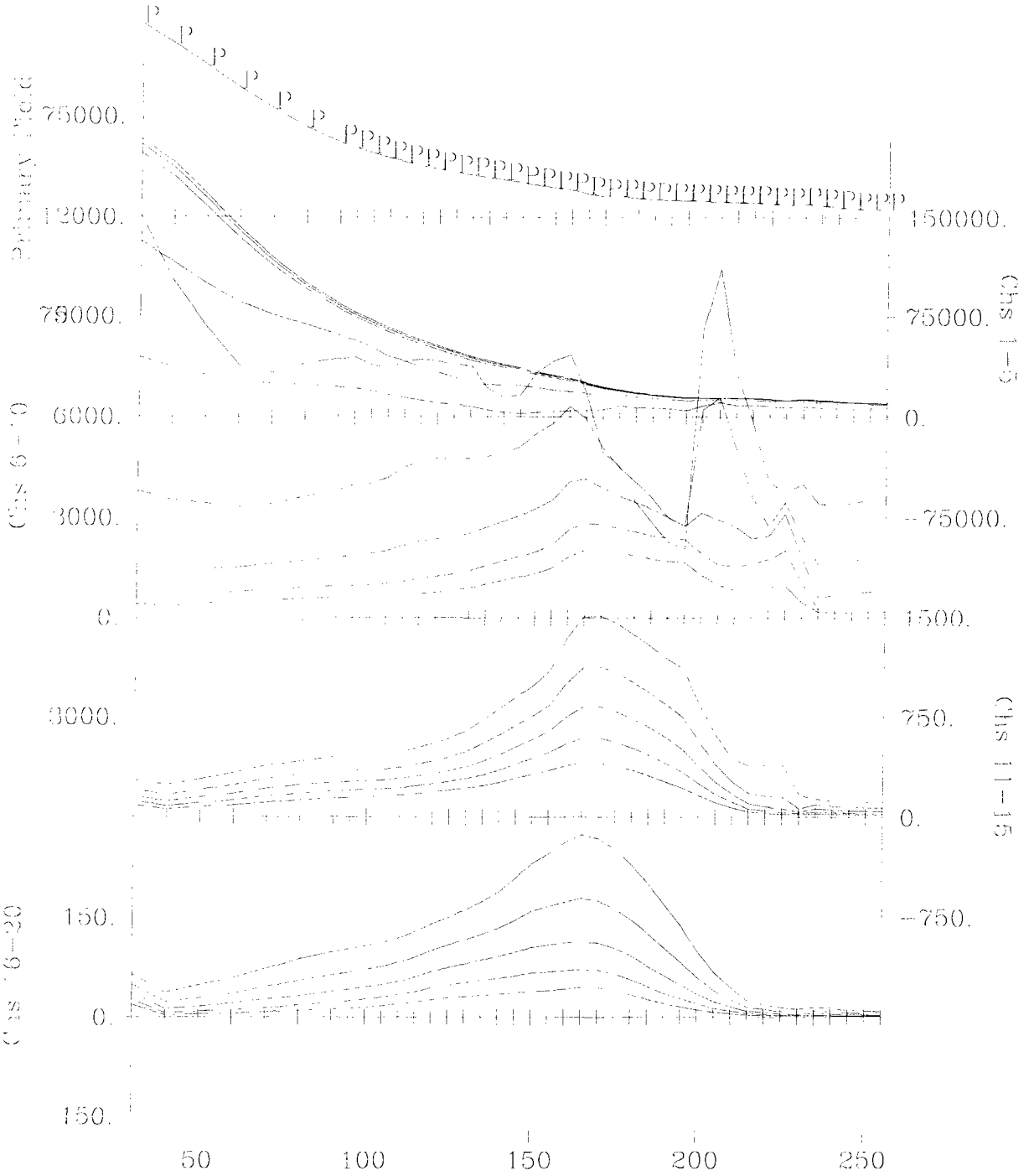
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E, 0-200N
Transmitter Current:	13.6 Amps
Tx Turn-Off-Time and Rx Delay:	410 us -80 us
Borehole Location:	498137E, 5349441N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 26, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Y-Tilt-GCL07-04-C



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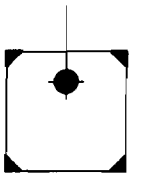


Borehole GCL07-04 – Total Field
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

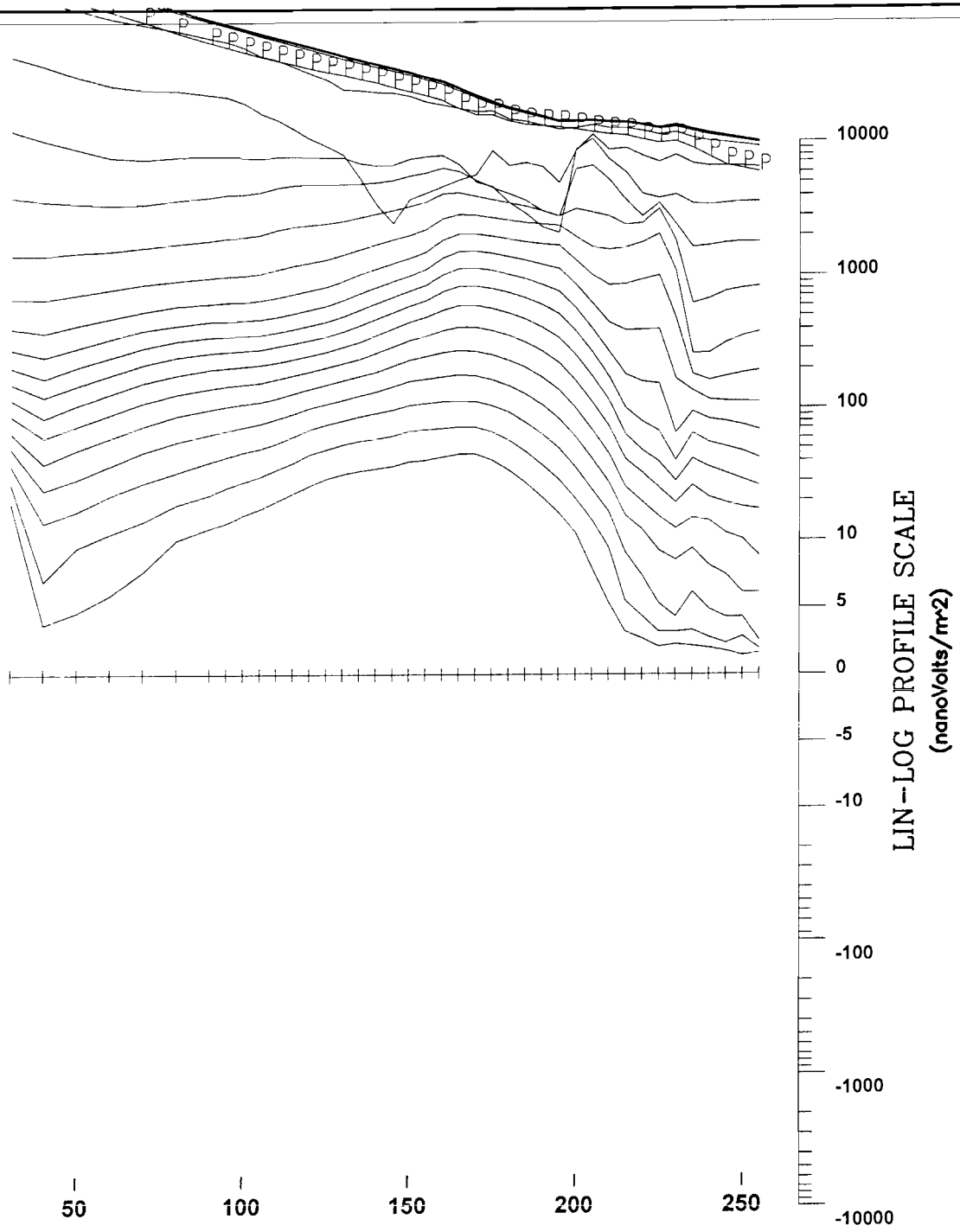
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	13.6 Amps
Tx Turn-Off-Time and Rx Delay:	410 us, -80 us
Borehole Location:	498137E, 5349441N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 26, 2006
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BH4A-Tiltrot-TF-GCL07-04-C



Map Generated by

Borehole GCL07-04 – TF Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E, 0-200N
Transmitter Current:	13.6 Amps
Tx Turn-Off-Time and Rx Delay:	410 us -80 us
Borehole Locotion:	498137E, 5349441N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientotion:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

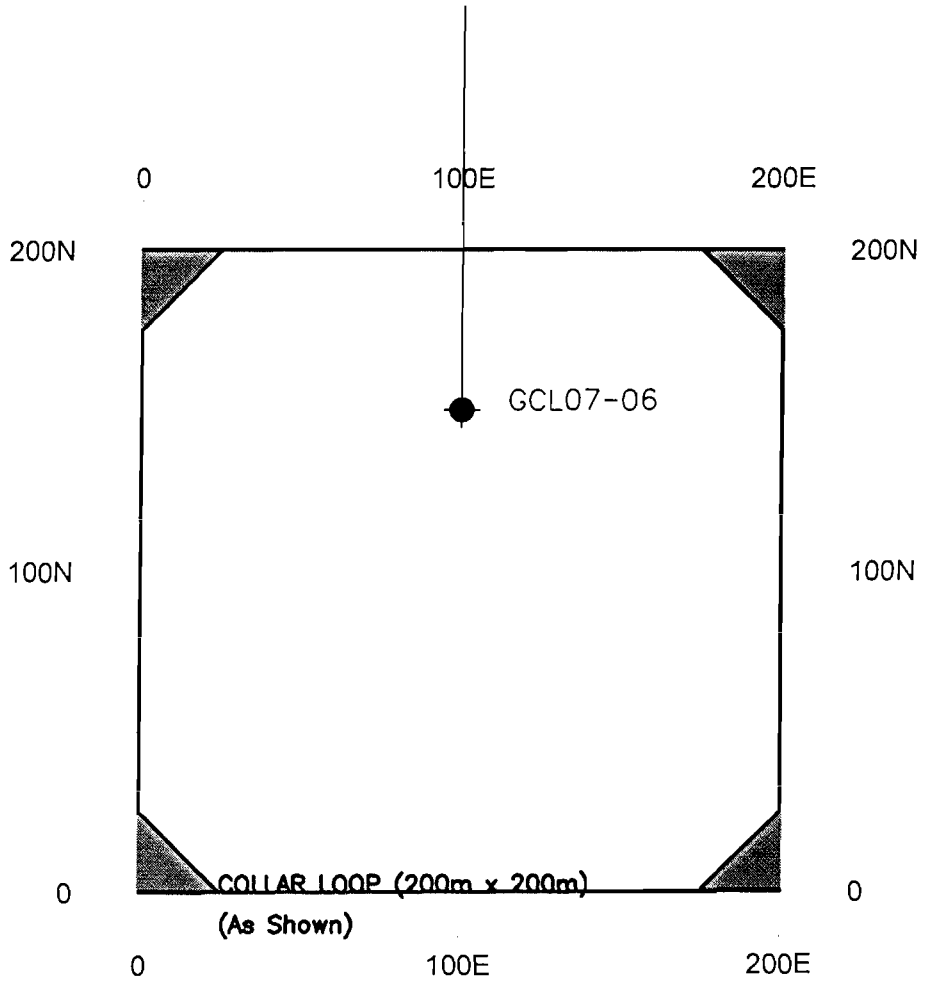
Survey Date:	May 26, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (8600 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-TF-Tilt-GCL07-04-C

GCL07-06 - BOREHOLE & LOOP LOCATION MAP



Scale 1:2500

25 0 25 50 75 100 125

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

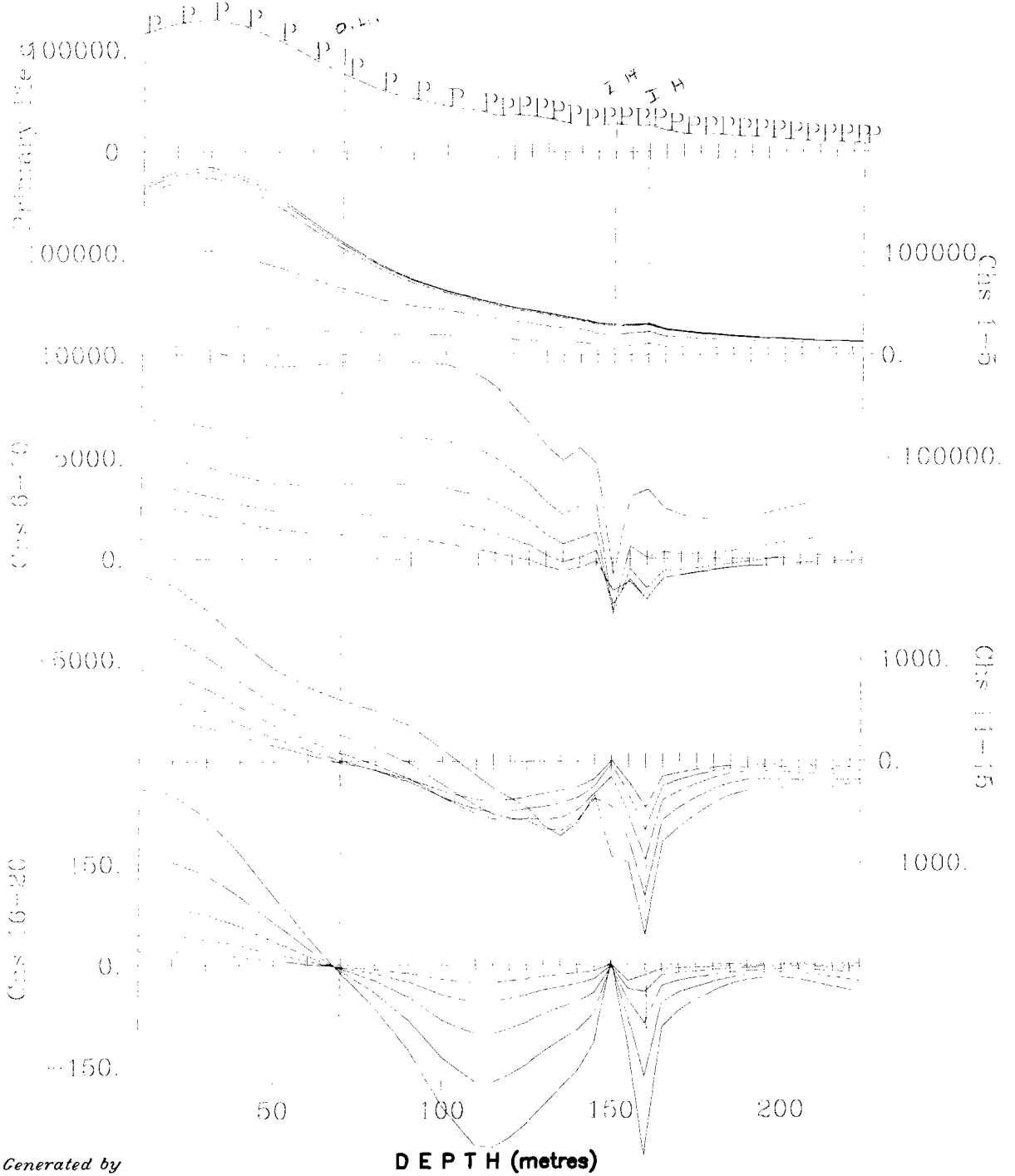
BOREHOLE & LOOP LOCATION MAP
GCL07-06

Borehole Parameters:	DDH #1 =	GCL07-06
	Location =	100E, 150N
	Azimuth & Dip =	325, -55
	DDH #2 =	
	Location =	
	Azimuth & Dip =	
	DDH #3 =	
	Location =	
	Azimuth & Dip =	

Survey Date:	May 25, 2007
Instrumentation:	Rx = Digitol Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. #: CA00500C-BHTEM-LOOPLOC-GCL07-06

Map Generated by



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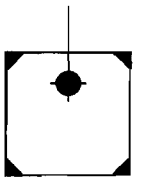


Borehole GCL07-06 – Z Component
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

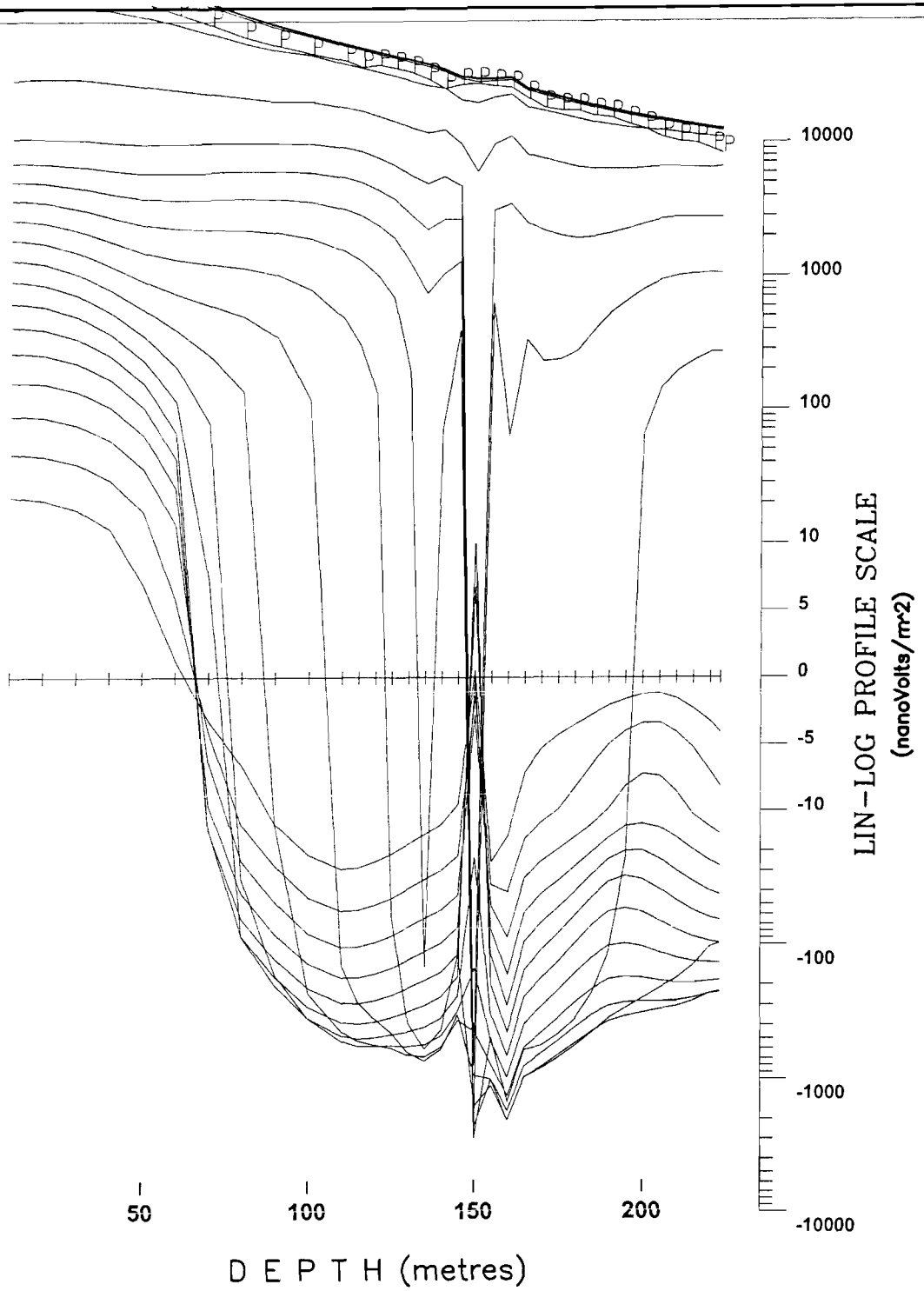
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientotion:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 25, 2006
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BH4A-Tiltrot-Z-GCL07-06-C



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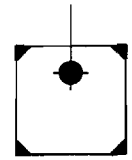


Borehole GCL07-06 - Z Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

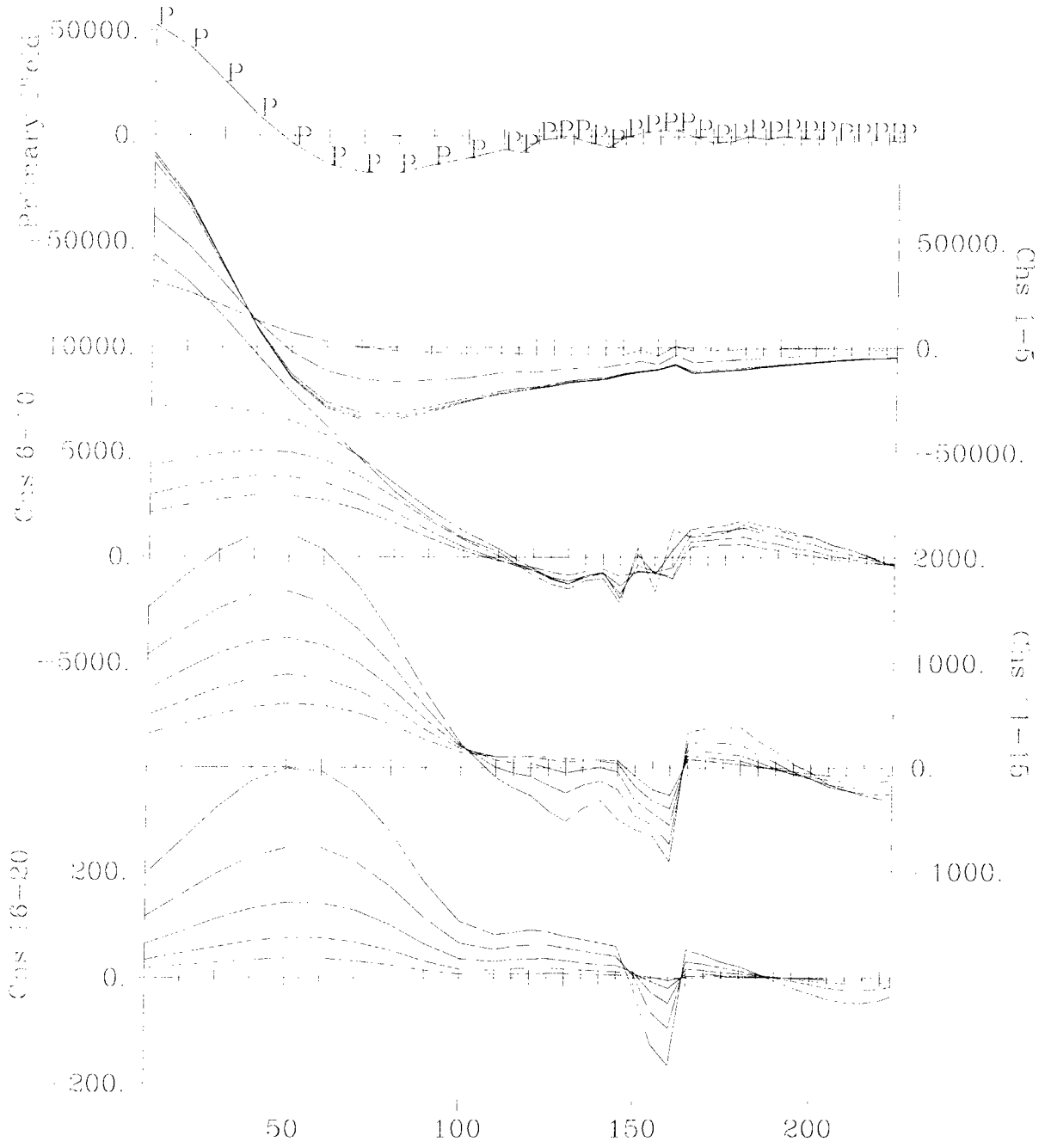
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Locotion:	0-200E, 0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off-Time and Rx Delay:	390 us -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 25, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Z-Tilt-GCL07-06-C



Map Generated by

Borehole GCL07-06 - X Component
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

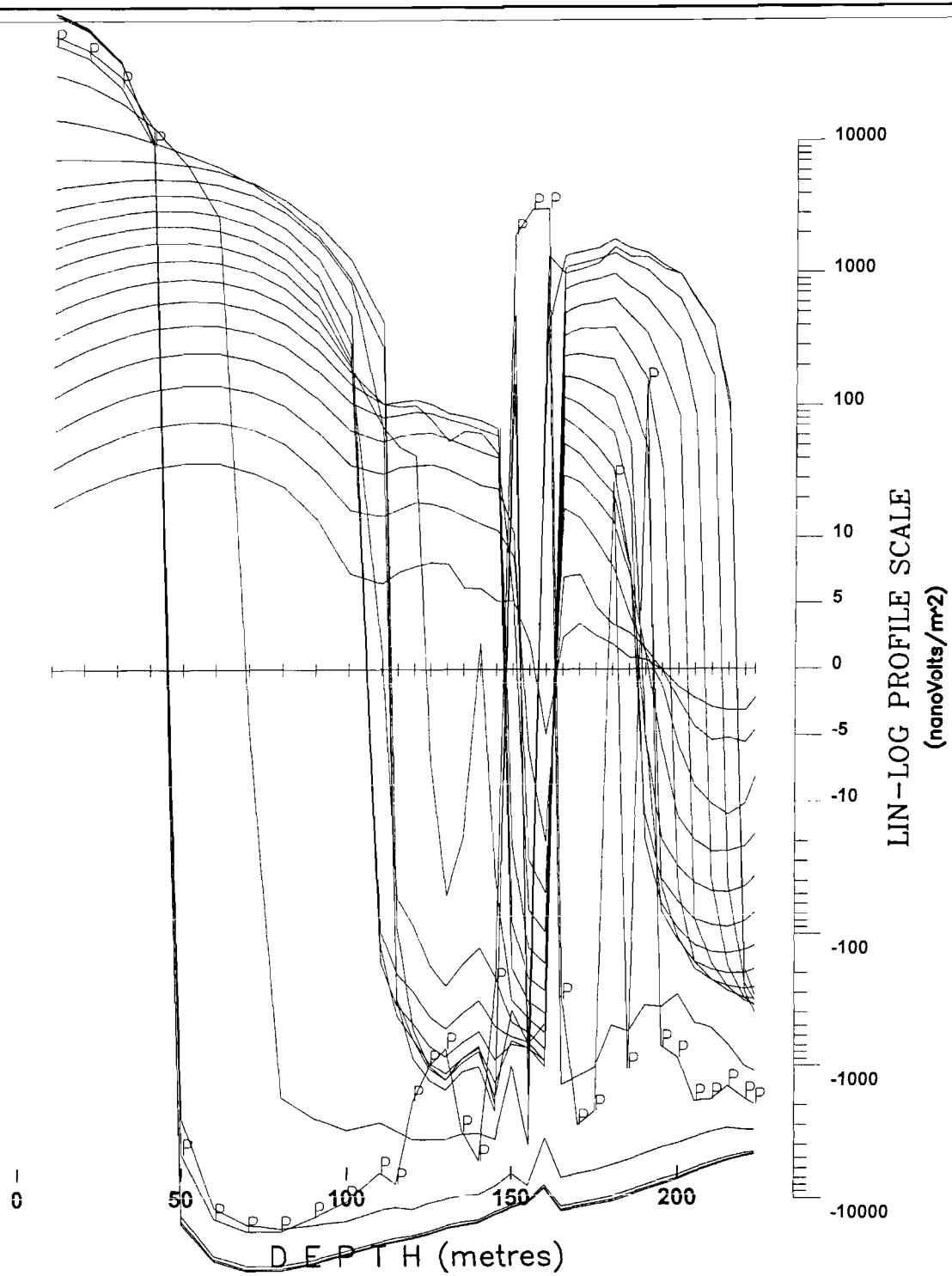
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 25, 2006
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-X-GCL07-06-C



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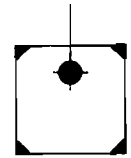


Borehole GCL07-06 - X Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

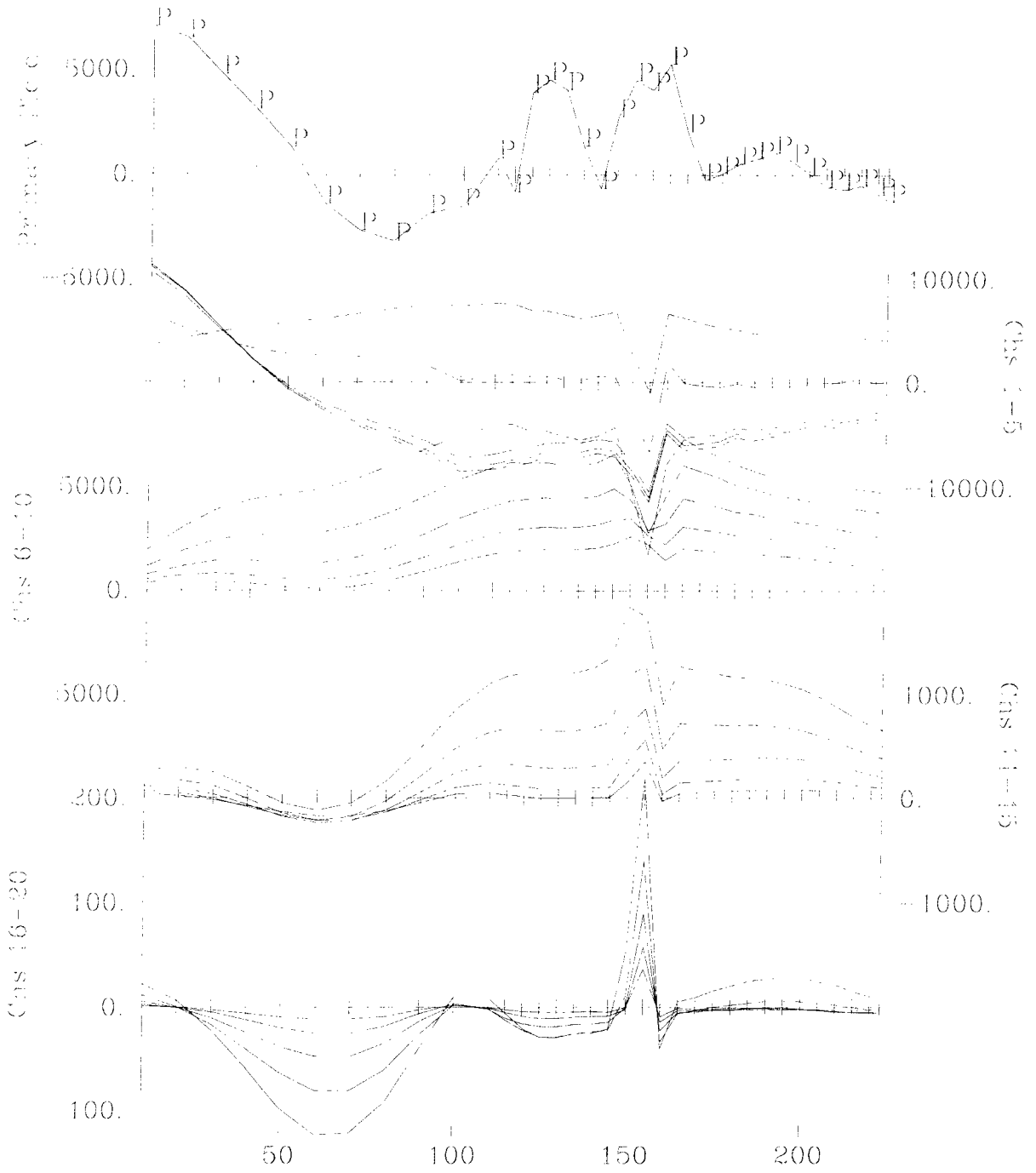
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E, 0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off-Time and Rx Delay:	390 us -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 25, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-X-Tilt-GCL07-06-C



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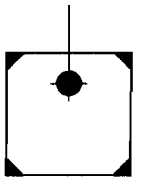


Borehole GCL07-06 – Y Component
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

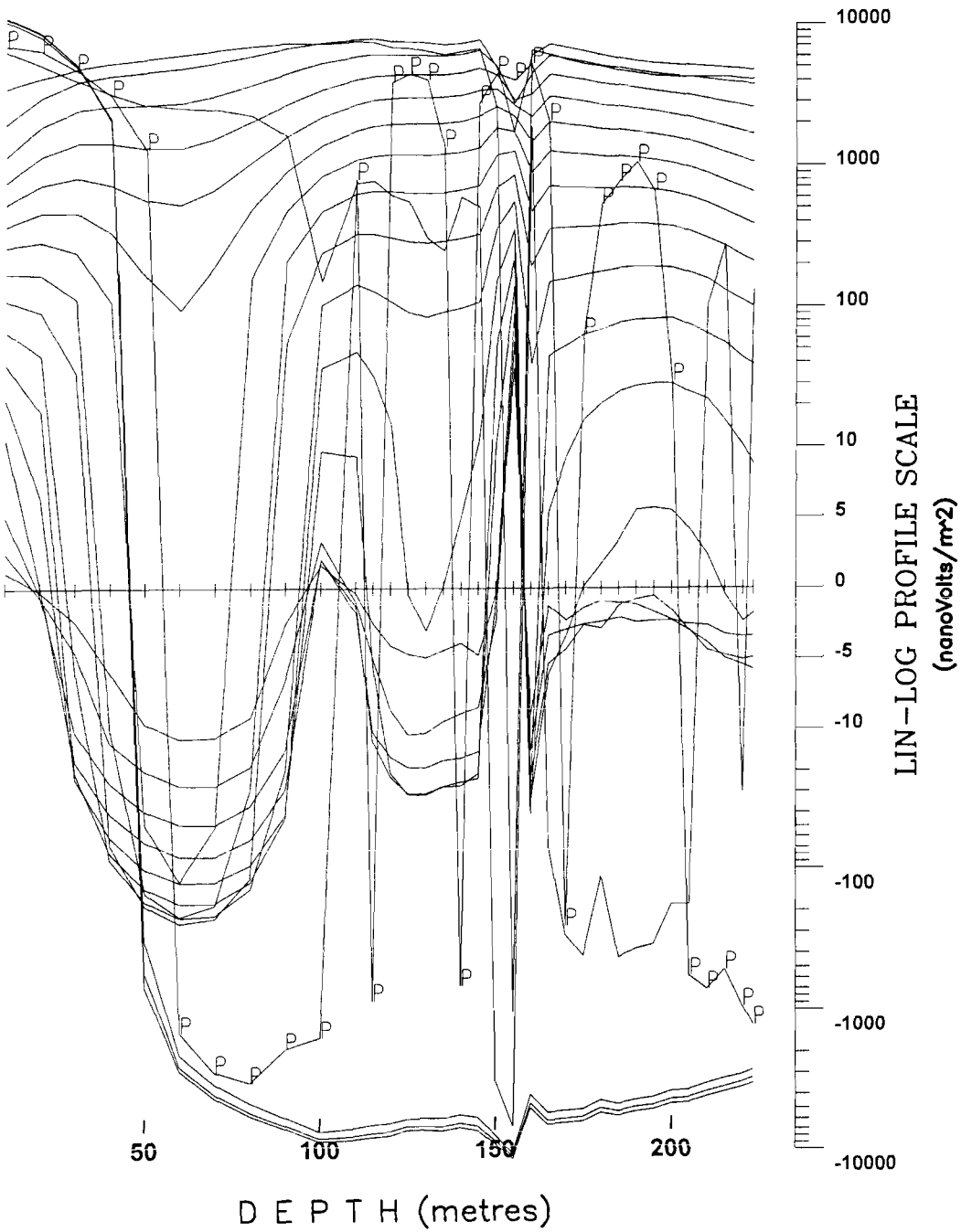
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Locotion:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 25, 2006
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM 57 (1800 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BH4A-Tiltrot-Y-GCL07-06-C



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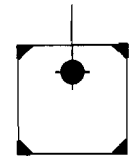


Borehole GCL07-06 – Y Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

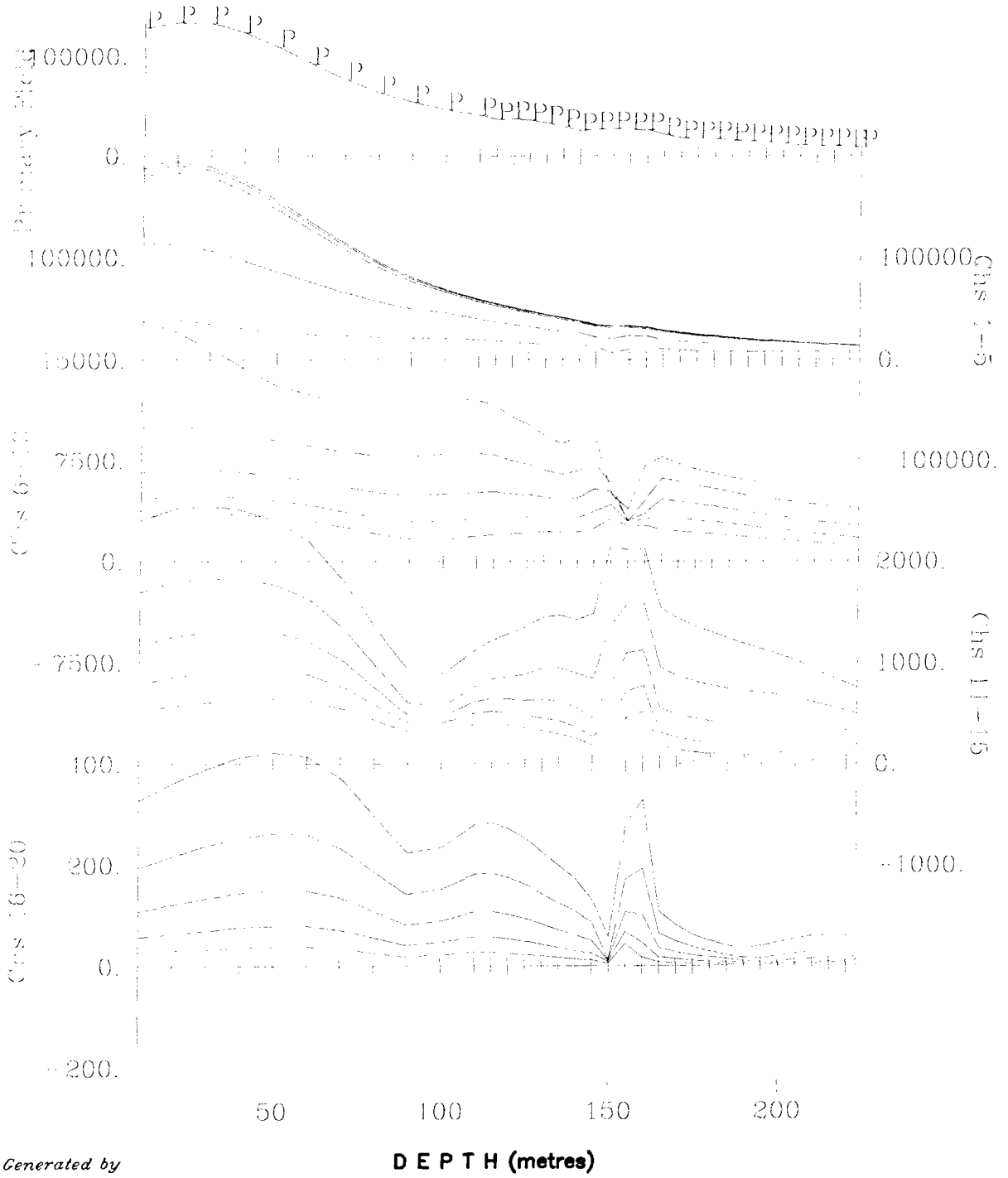
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E, 0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off Time and Rx Delay:	390 us -80 us
Borehole Locotion:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -55
Station Intervol:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientotion:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 25, 2007
Instrumentotion:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 18600 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Y-Tilt-GCL07-06-C



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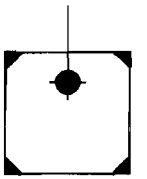


Borehole GCL07-06 – Total Field
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

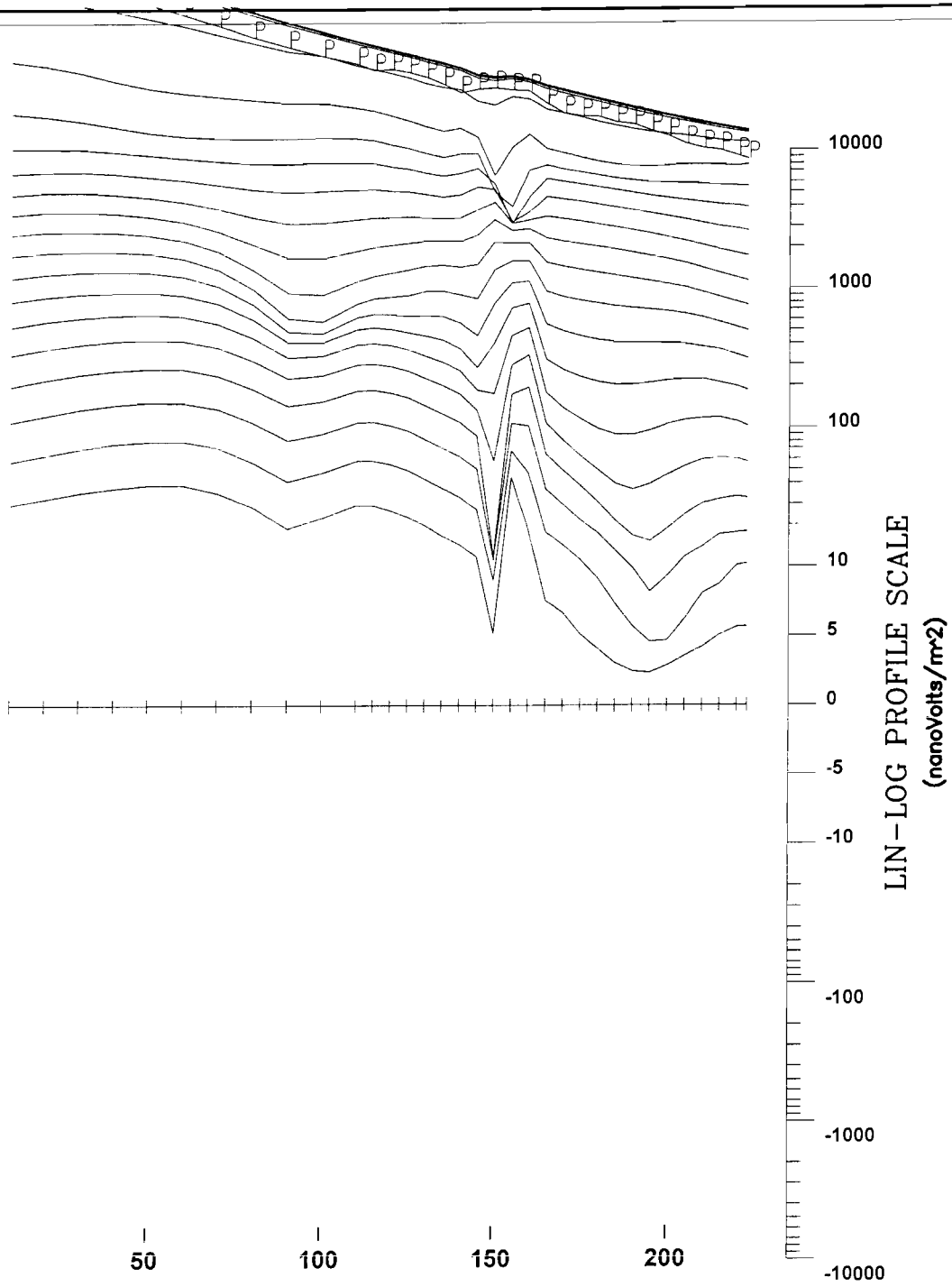
Secondary Electromagnetic Field (dB/dt)

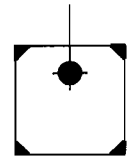
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Dote:	Moy 25, 2006
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx - Geonics EM-57 (1800 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BH4A-Tiltrot-TF-GCL07-06-C





Borehole GCL07-06 – Total Field

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E, 0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off-Time and Rx Delay:	390 us -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -55
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - pasitive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	May 25, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 18600 W)

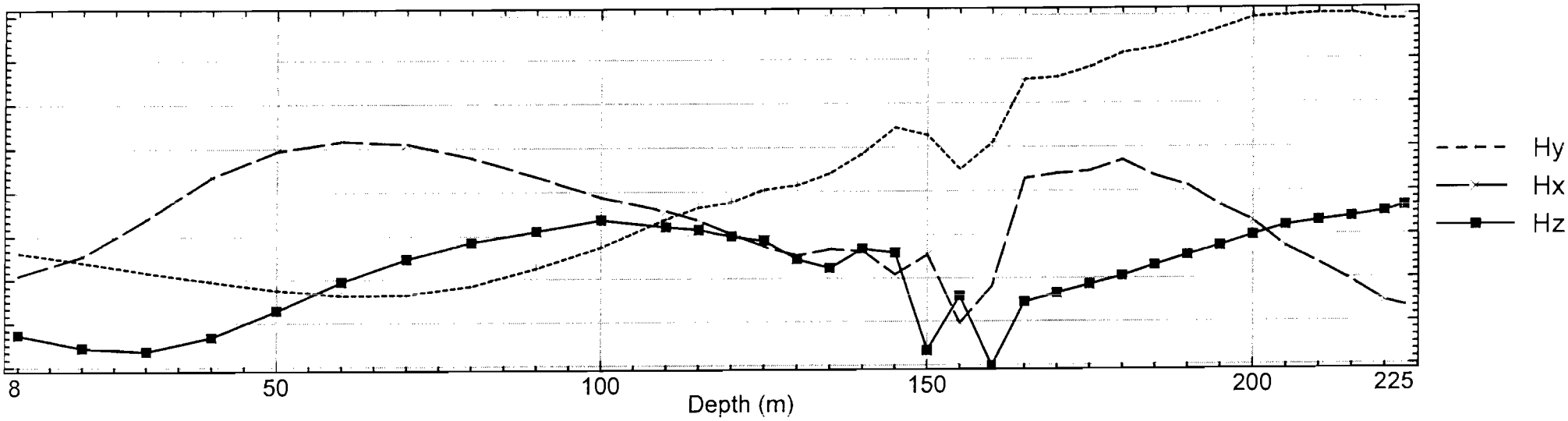
Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

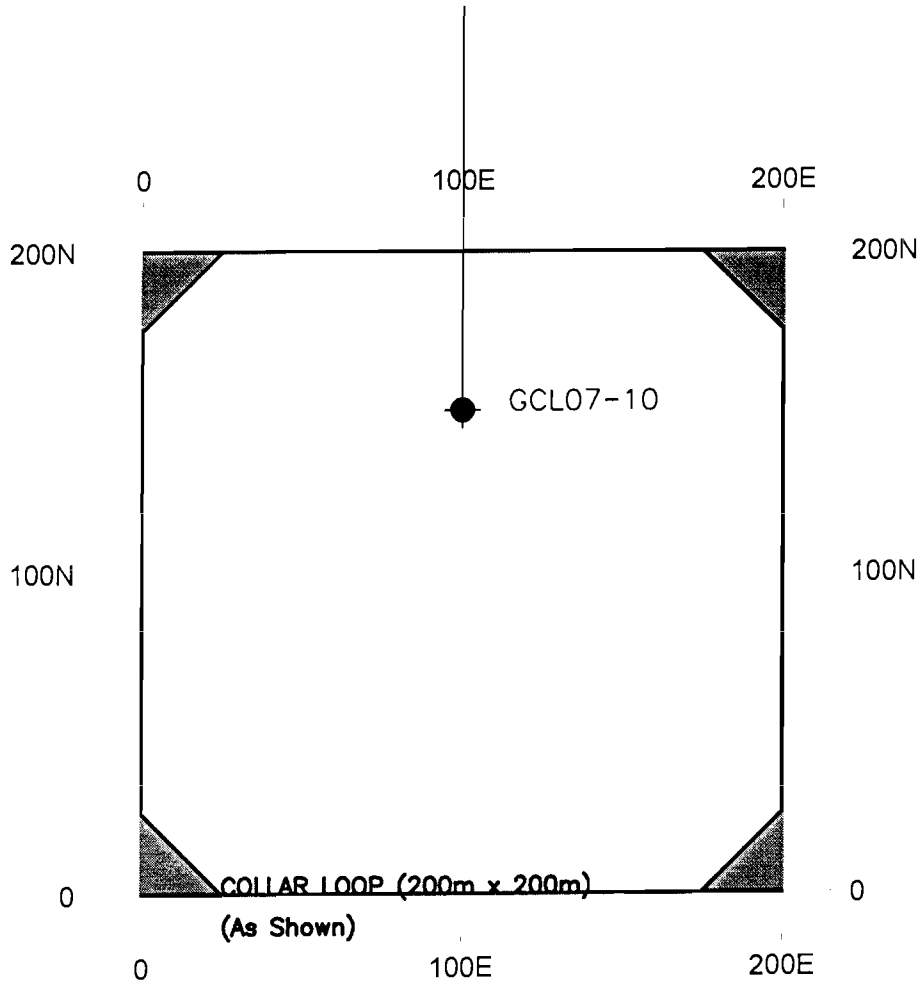
DWG. NO. CA00500C-BHLL-TF-Tilt-GCL07-06-C

Map Generated by

STEP RESPONSE FOR HOLE GCL07-06



GCL07-10 - BOREHOLE & LOOP LOCATION MAP



Scale 1:2500

25 0 25 50 75 100 125

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

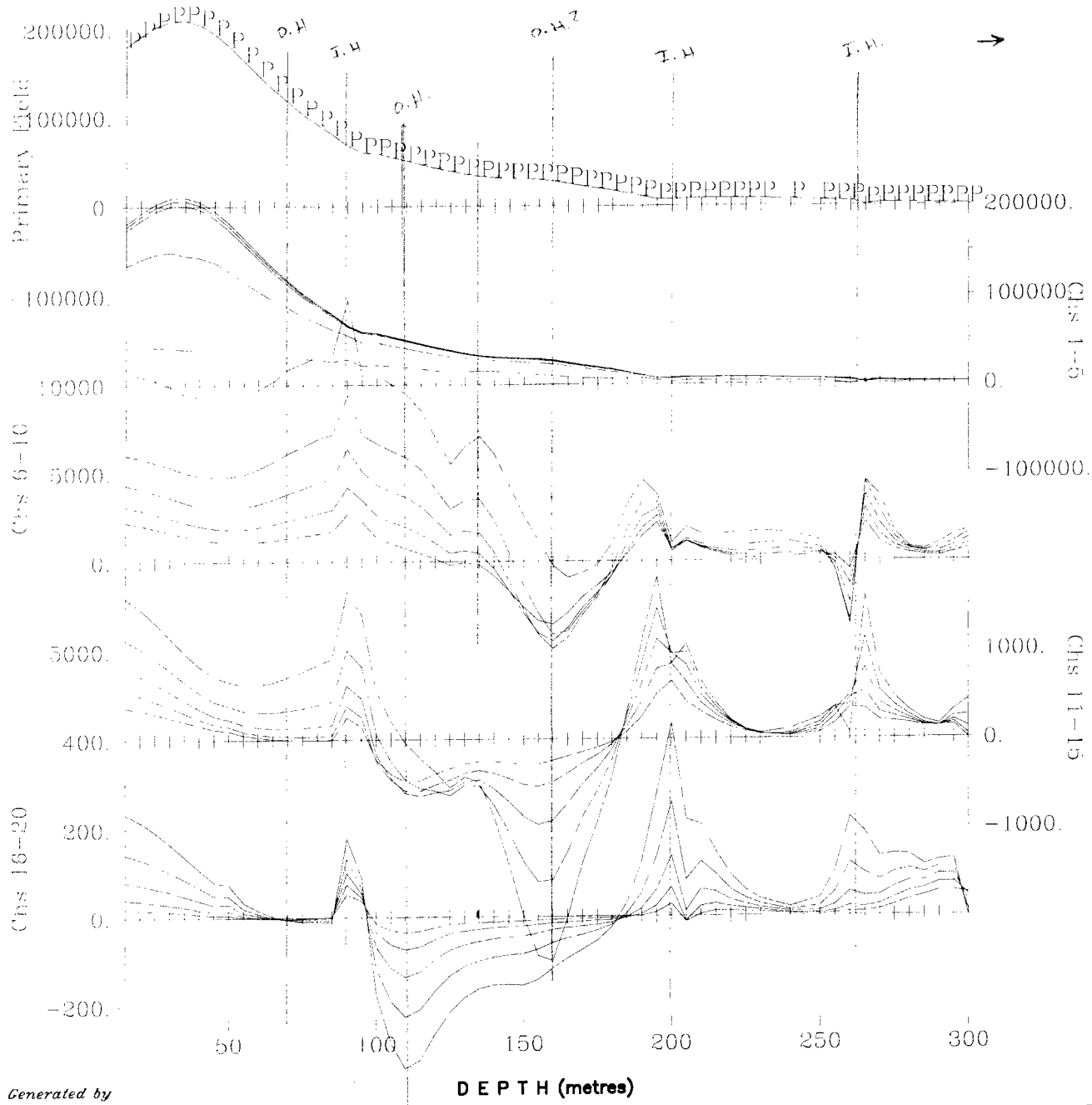
BOREHOLE & LOOP LOCATION MAP
GCL07-10

Borehole Parameters:	DDH #1 =	GCL07-10
	Location =	100E, 150N
	Azimuth & Dip =	325, -45
	DDH #2 =	
	Location =	
	Azimuth & Dip =	
	DDH #3 =	
	Location =	
	Azimuth & Dip =	

Survey Date:	July 18, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. #: CA00500C-BHTEM-LOOPLOC-GCL07-10

Map Generated by



Map Generated by

Borehole GCL07-10 – Z Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

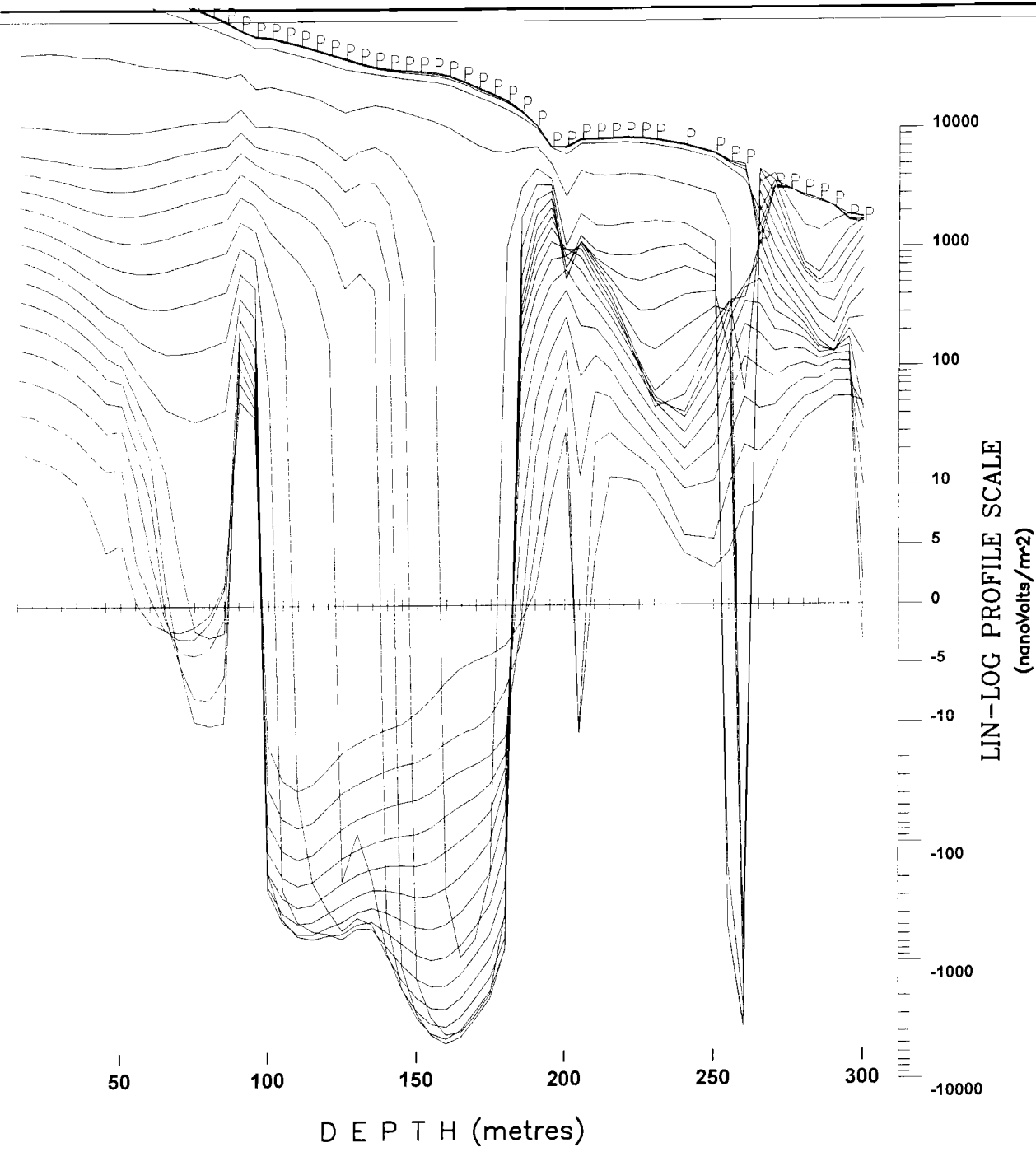
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 18, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Z-GCL07-10-C



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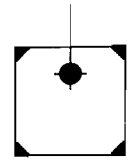


Borehole GCL07-10 - Z Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

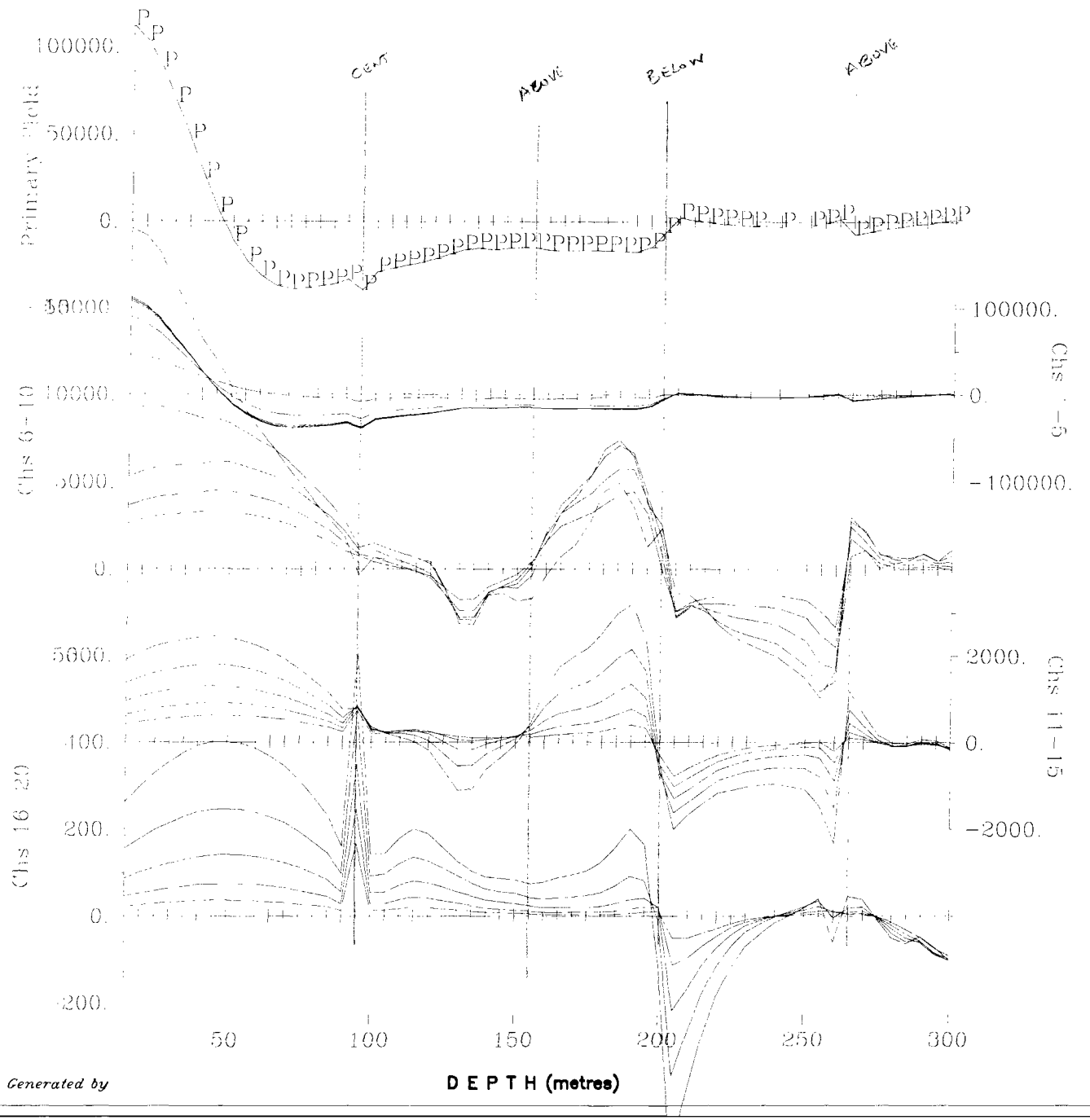
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	407523E, 5349401N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	July 18, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Z-Tilt-GCL07-10-C



Map Generated by

Borehole GCL07-10 - X Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

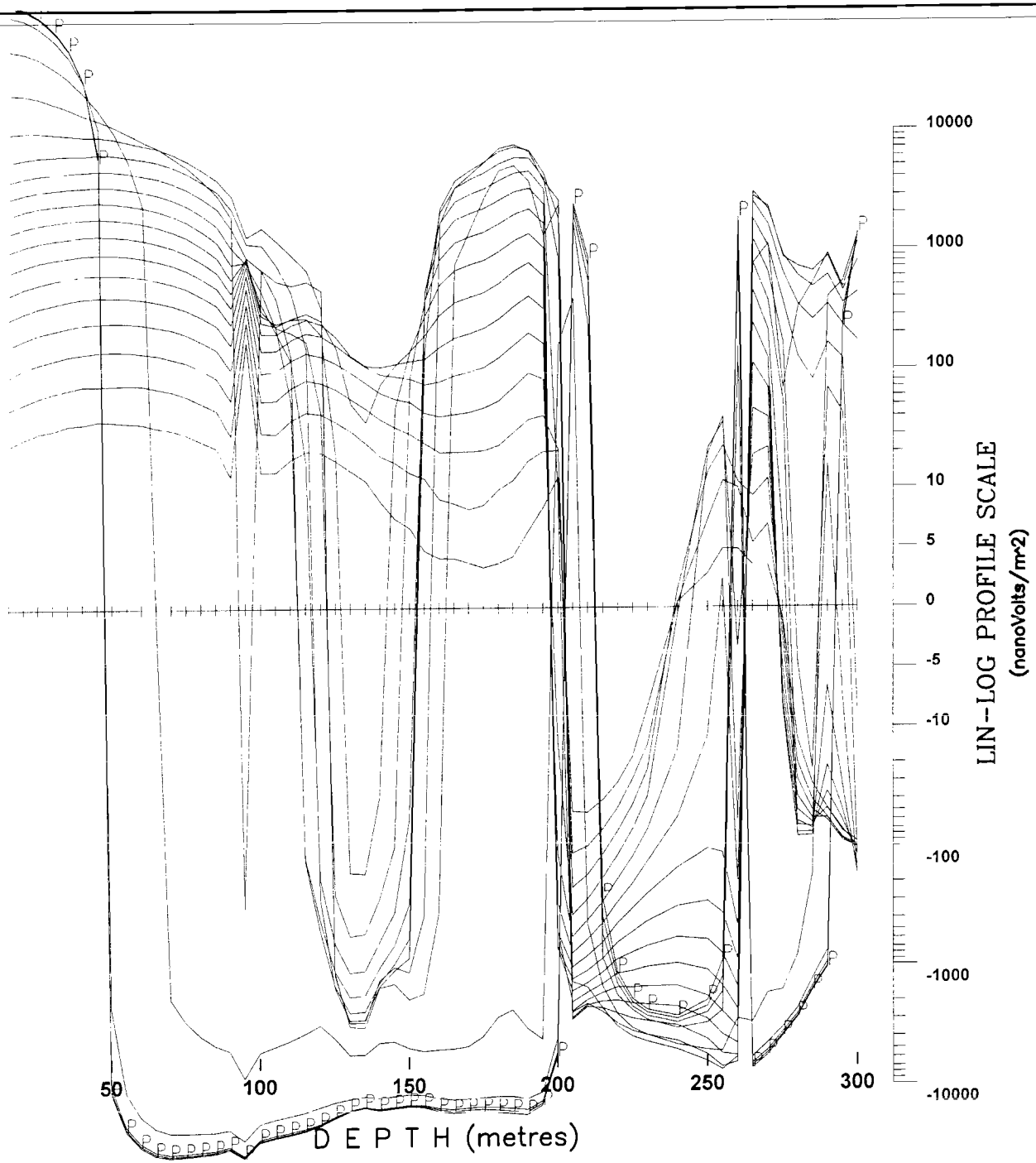
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -45
Station Interval.	5-10 meters
Profile Units.	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	July 18, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-X-GCL07-10-C



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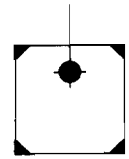


Borehole GCL07-10 - X Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

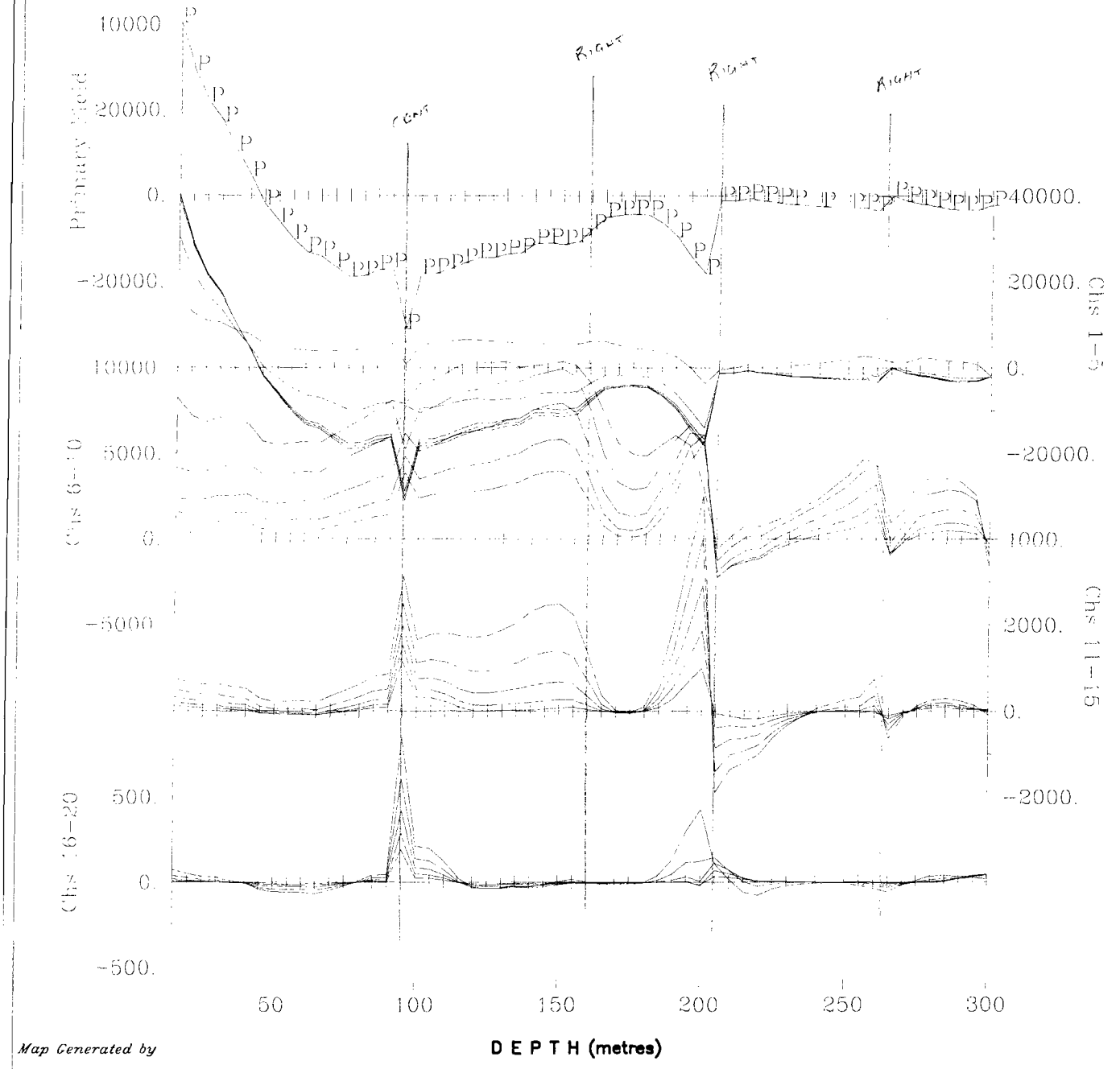
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 18, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 1800W)

Surveyed & Processed by.

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-X-Tilt-GCL07-10-C



Borehole GCL07-10 – Y Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

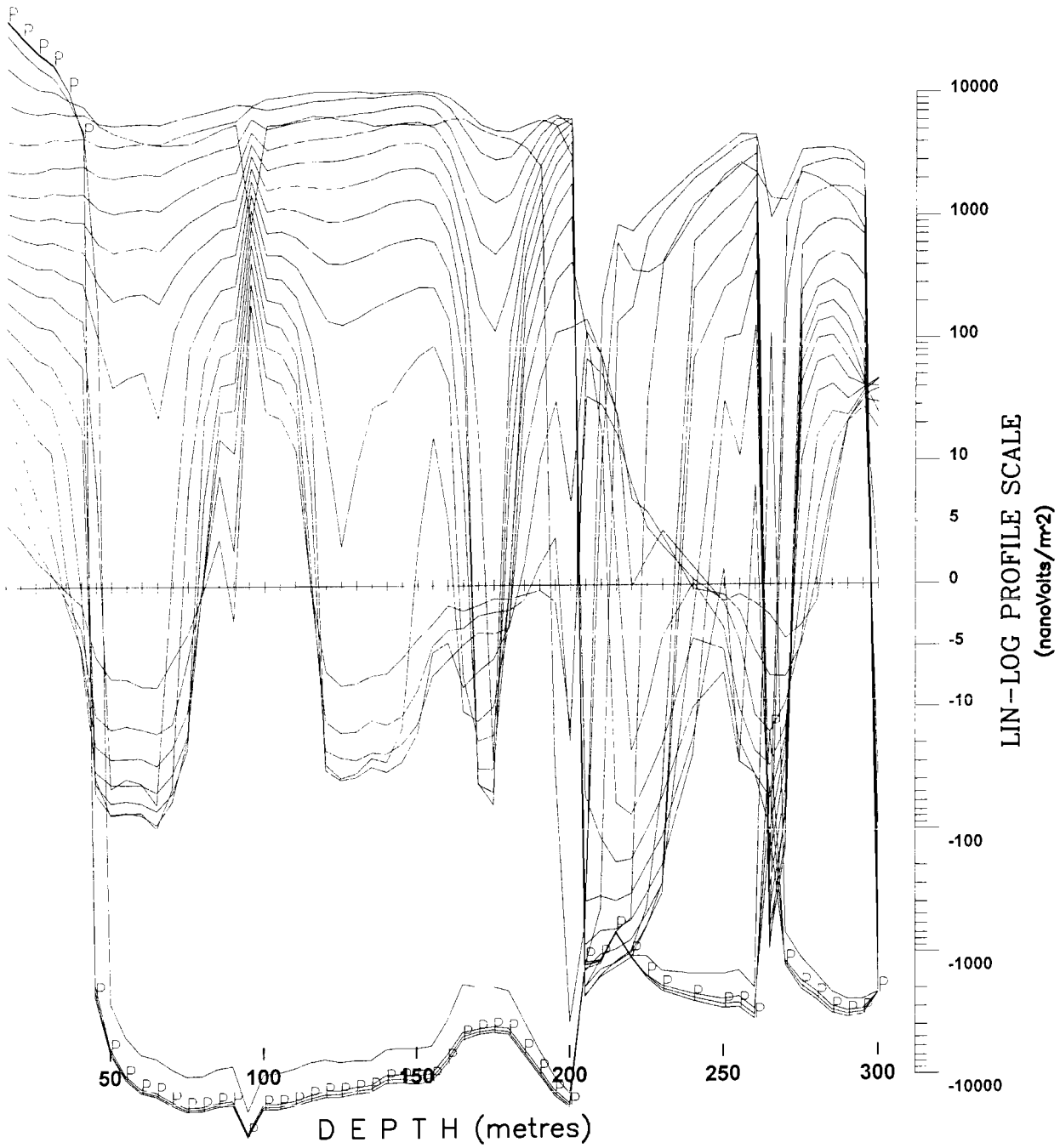
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	July 18, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Y-GCL07-10-C



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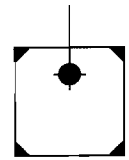


Borehole GCL07-10 - Y Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

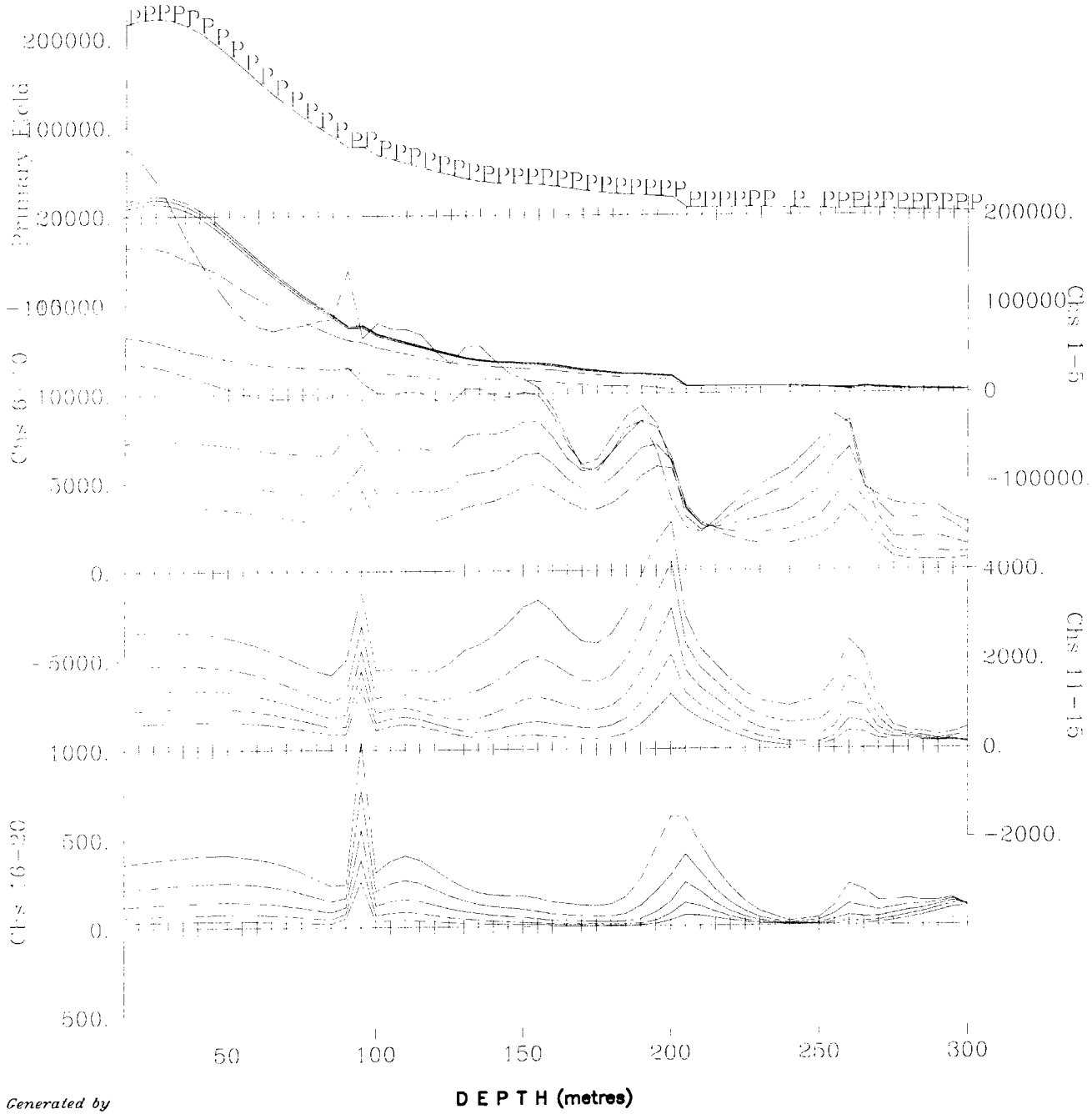
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Deloy:	415 us -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nonoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	July 18, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Y-Tilt-GCL07-10-C



Map Generated by

Borehole GCL07-10 - Total Field
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

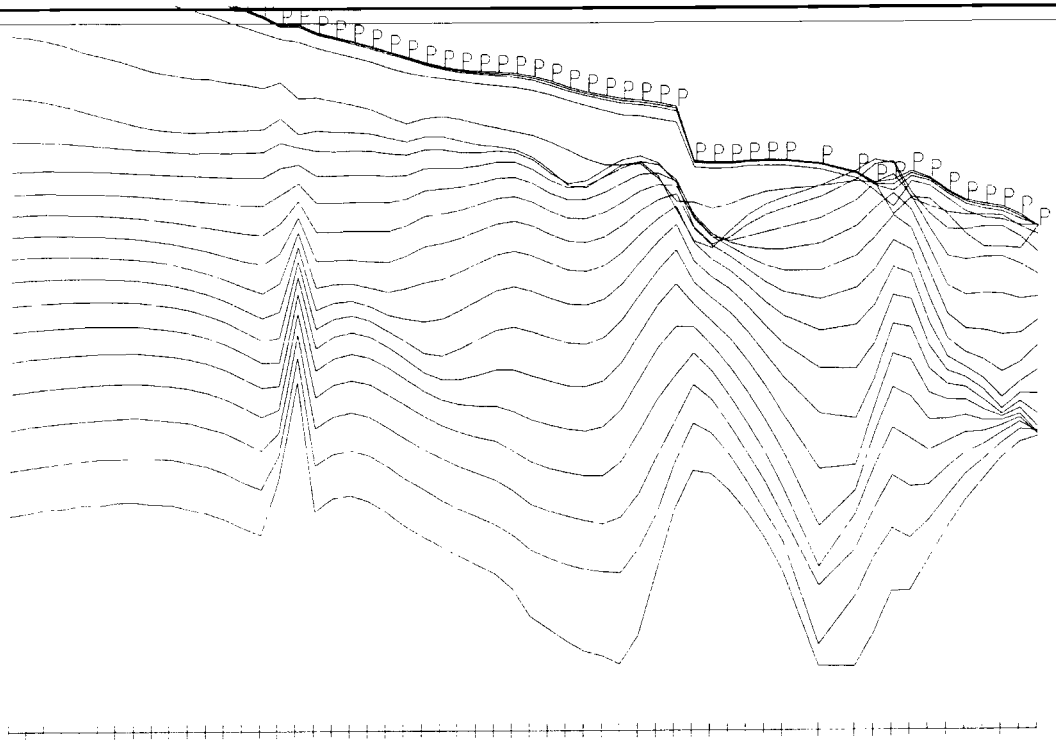
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	12.8 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	July 18, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-TF-GCL07-10-C



Borehole GCL07-10 - Z Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

10000
1000
100
10
5
0
-5
-10
-100
-1000
-10000

LIN-LOG PROFILE SCALE (nanoVolts/m^2)

50 100 150 200 250 300

D E P T H (metres)

Map Generated by

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

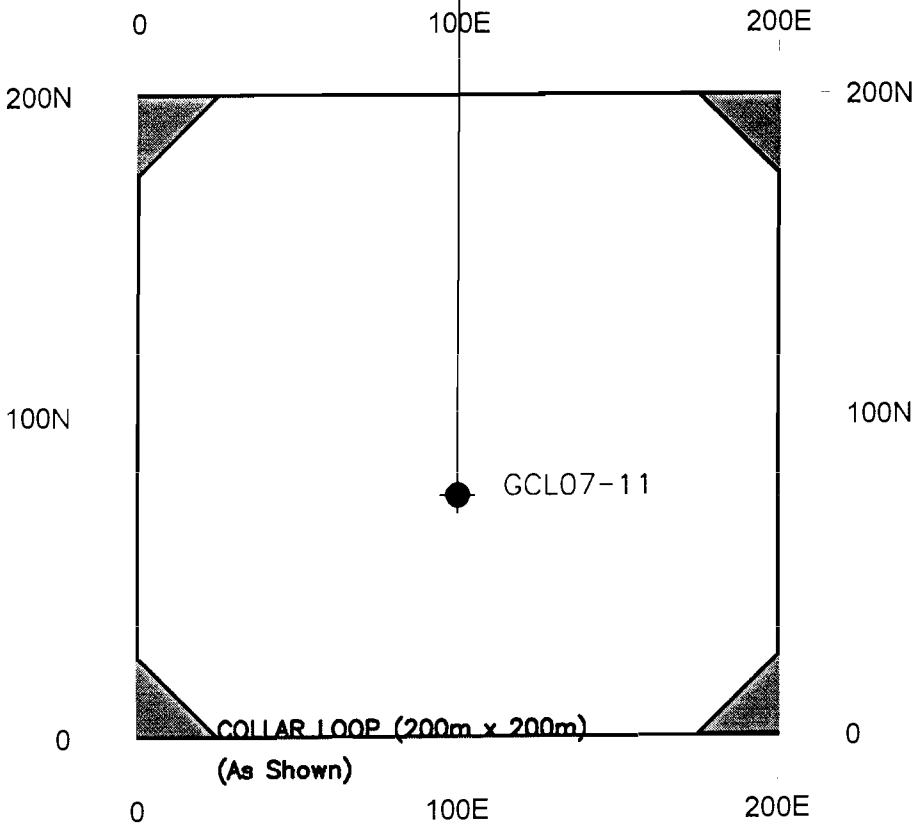
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497523E, 5349401N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 18, 2007
Instrumentation:	Rx = Digitol Pratem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Z-Tilt-GCL07-10-C

GCL07-11 – BOREHOLE & LOOP LOCATION MAP



Scale 1:2500

25 0 25 50 75 100 125

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

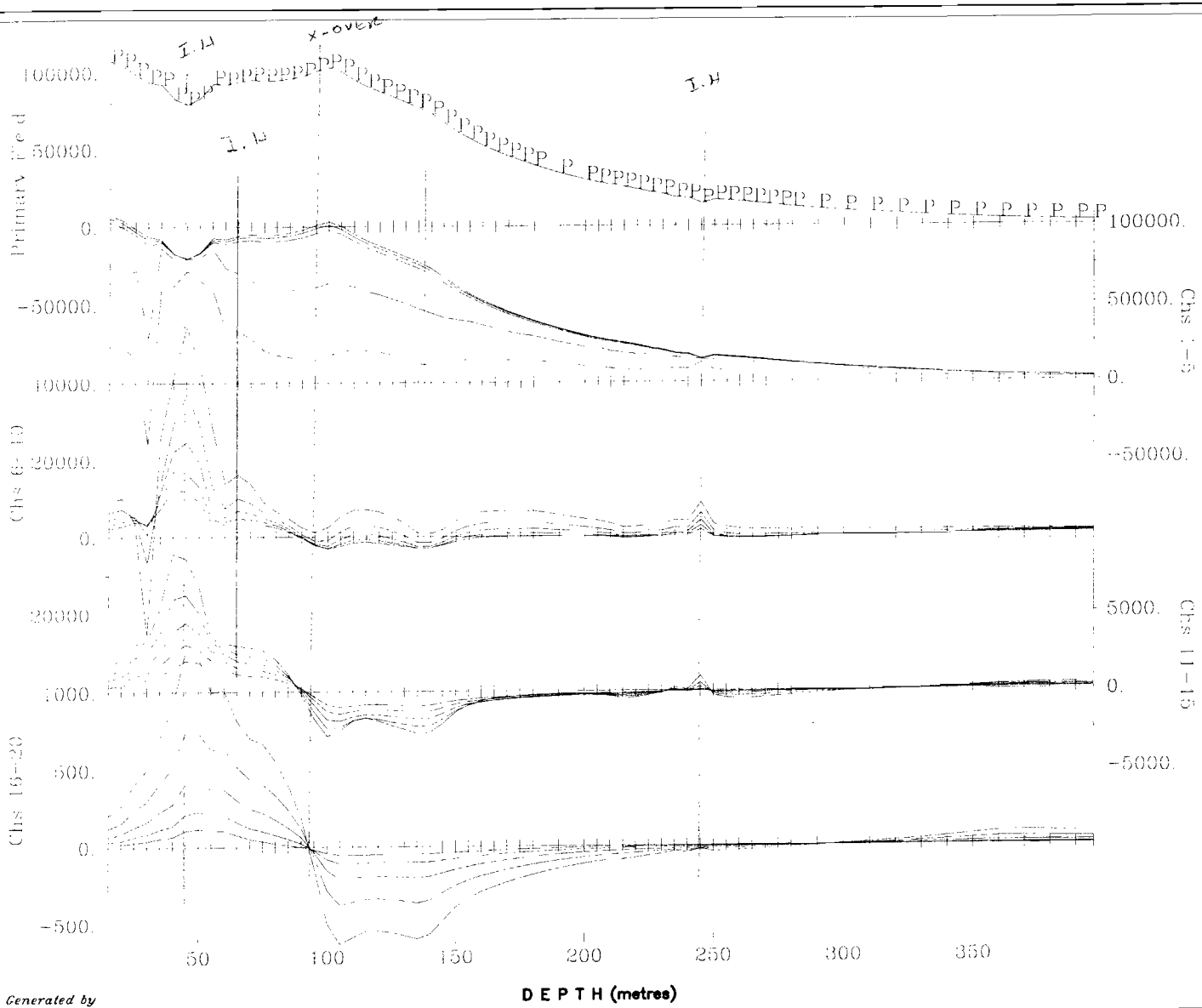
BOREHOLE & LOOP LOCATION MAP
GCL07-11

Borehole Parameters:	DDH #1 =	GCL07-11
	Location =	100E, 75N
	Azimuth & Dip =	325, -45
	DDH #2 =	
	Location =	
	Azimuth & Dip =	
	DDH #3 =	
	Location =	
	Azimuth & Dip =	

Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. #: CA00500C-BHTEM-LOOPLOC-GCL07-11

Map Generated by



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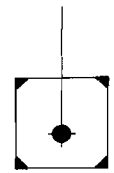


Borehole GCL07-11 - Z Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

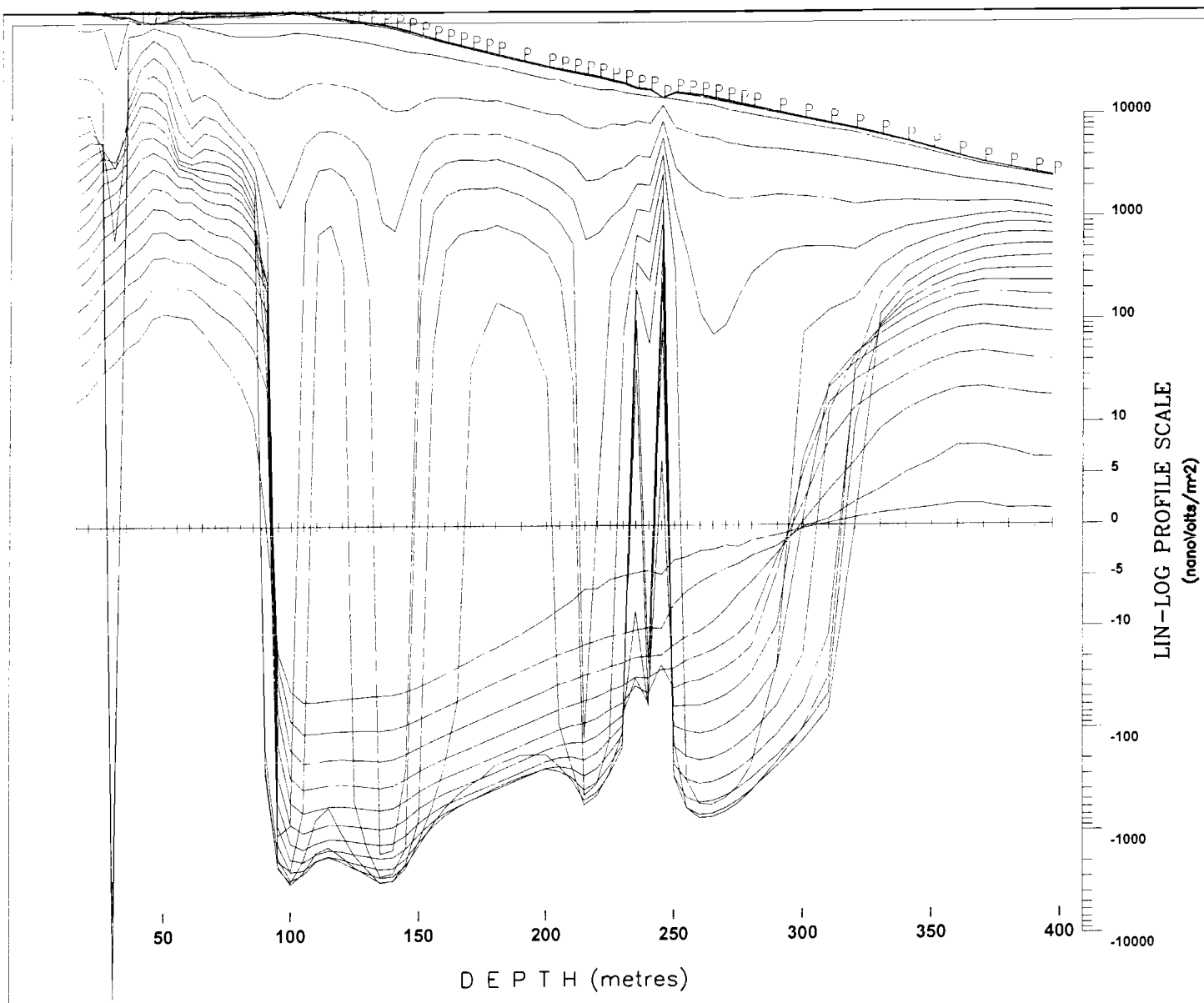
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0 200E;0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, 80 us
Borehole Location:	497566E, 5349340N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Z-GCL07-11-C



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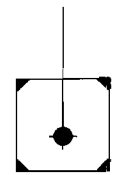


Borehole GCL07-11 - Z Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

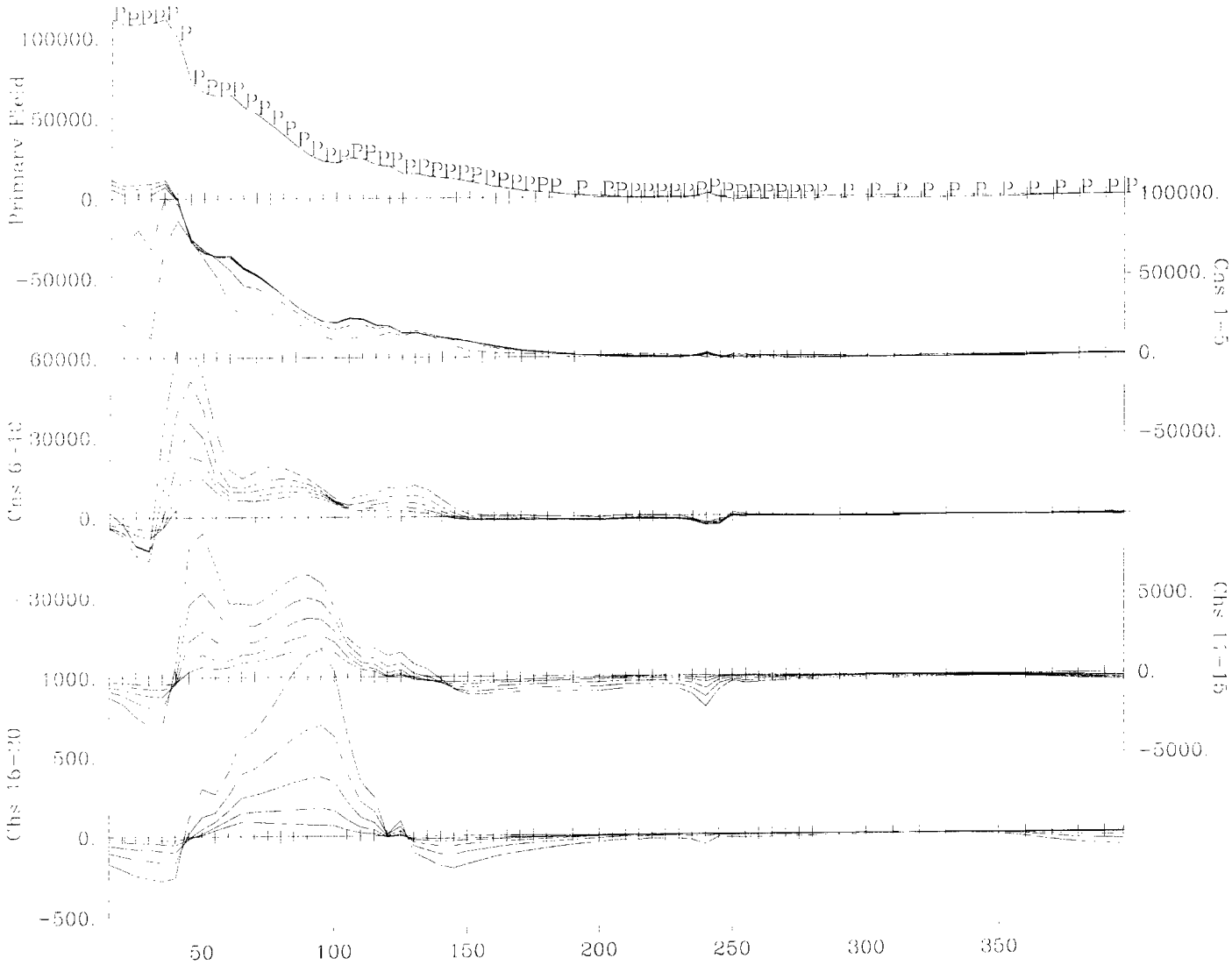
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497566E, 5349340N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Z-Tilt-GCL07-11-C



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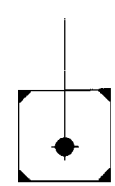

Borehole GCL07-11 – X Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
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TIMMINS, ON

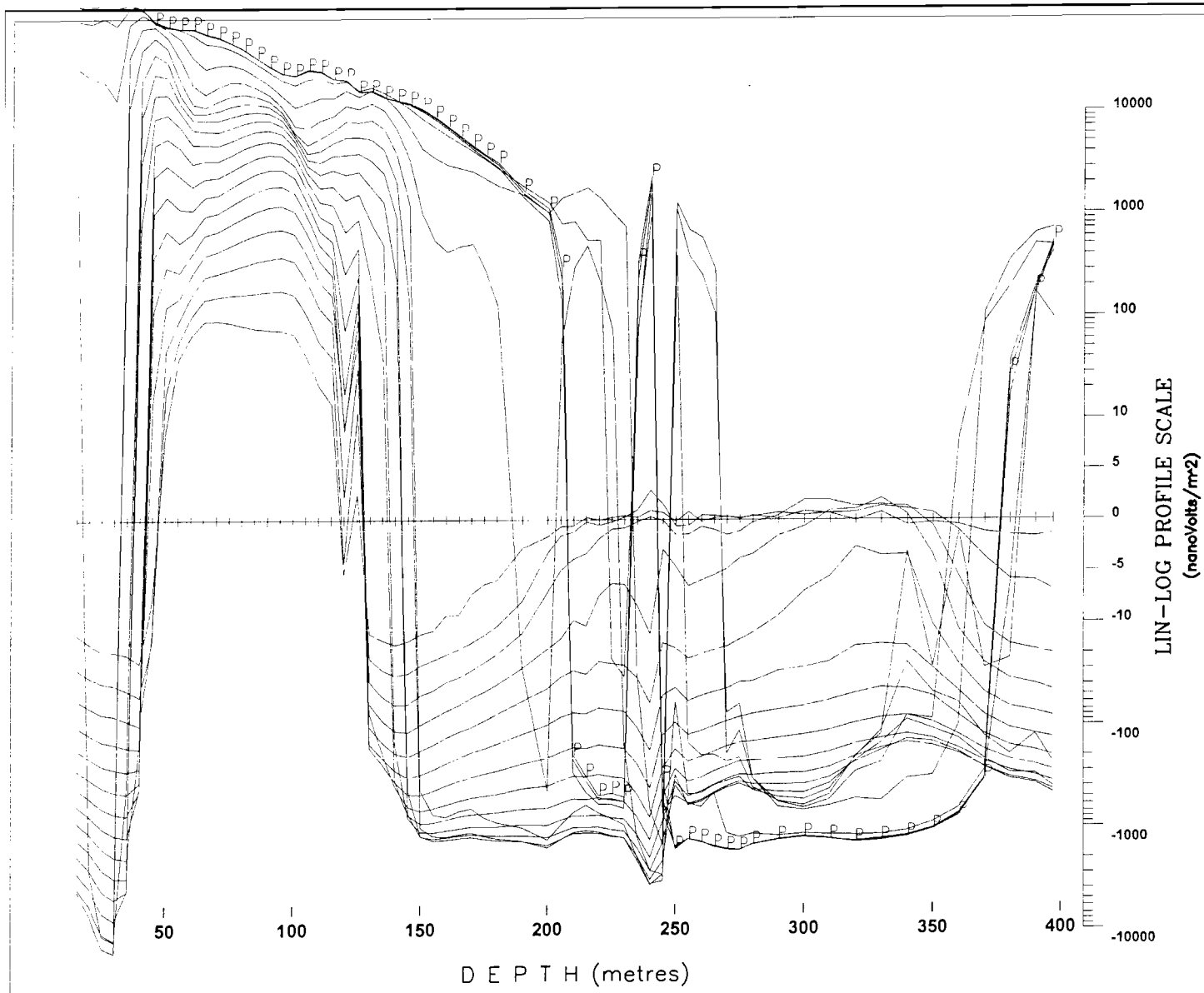
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497566E, 5349340N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units	nanoVolt/m2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-X-GCL07-11-C



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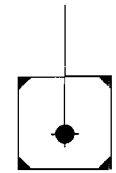


Borehole GCL07-11 – X Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

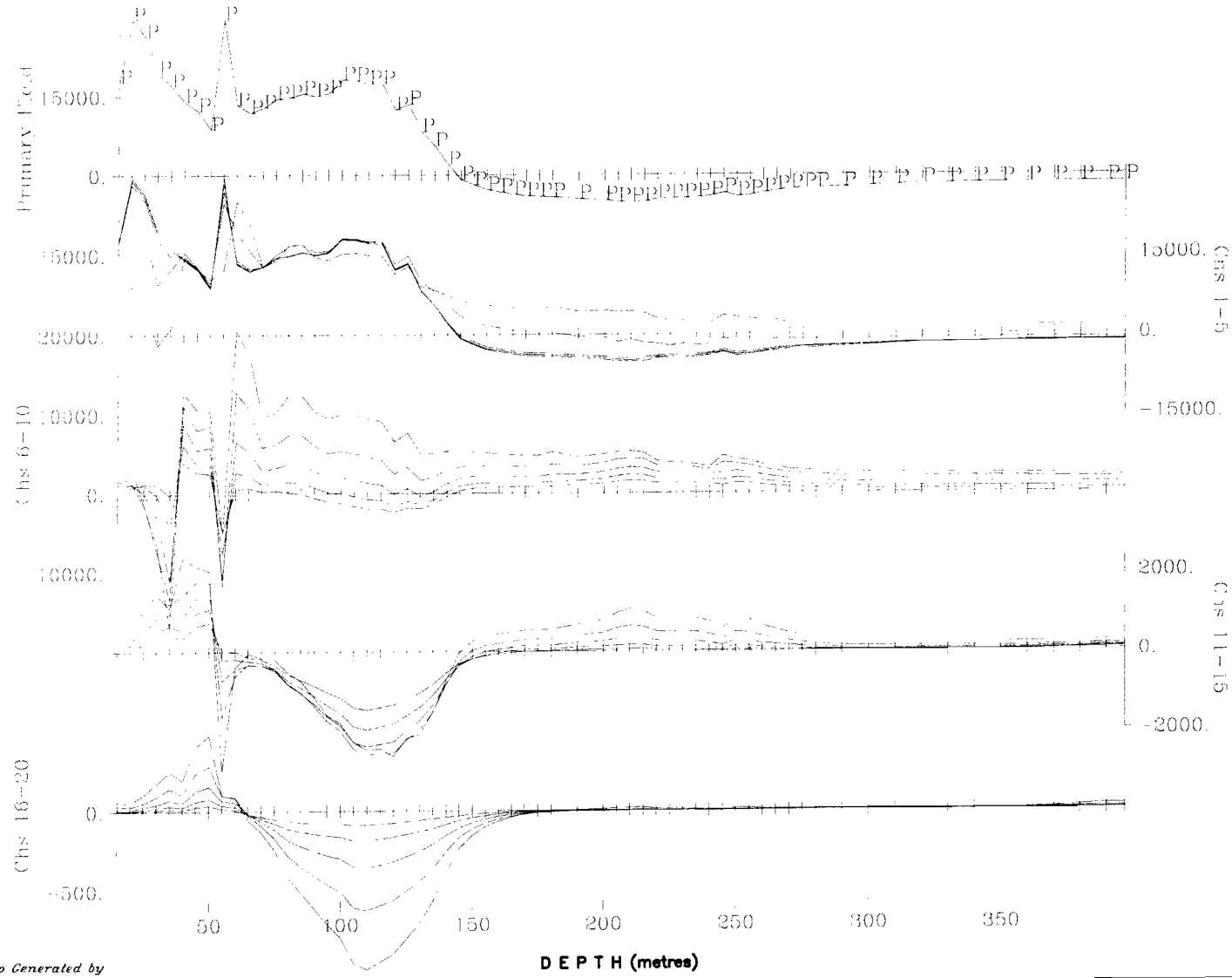
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay	415 us -80 us
Borehole Location:	497566E, 5349340N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (3D Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-X-Tilt-GCL07-11-C



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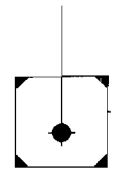


Borehole GCL07-11 - Y Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

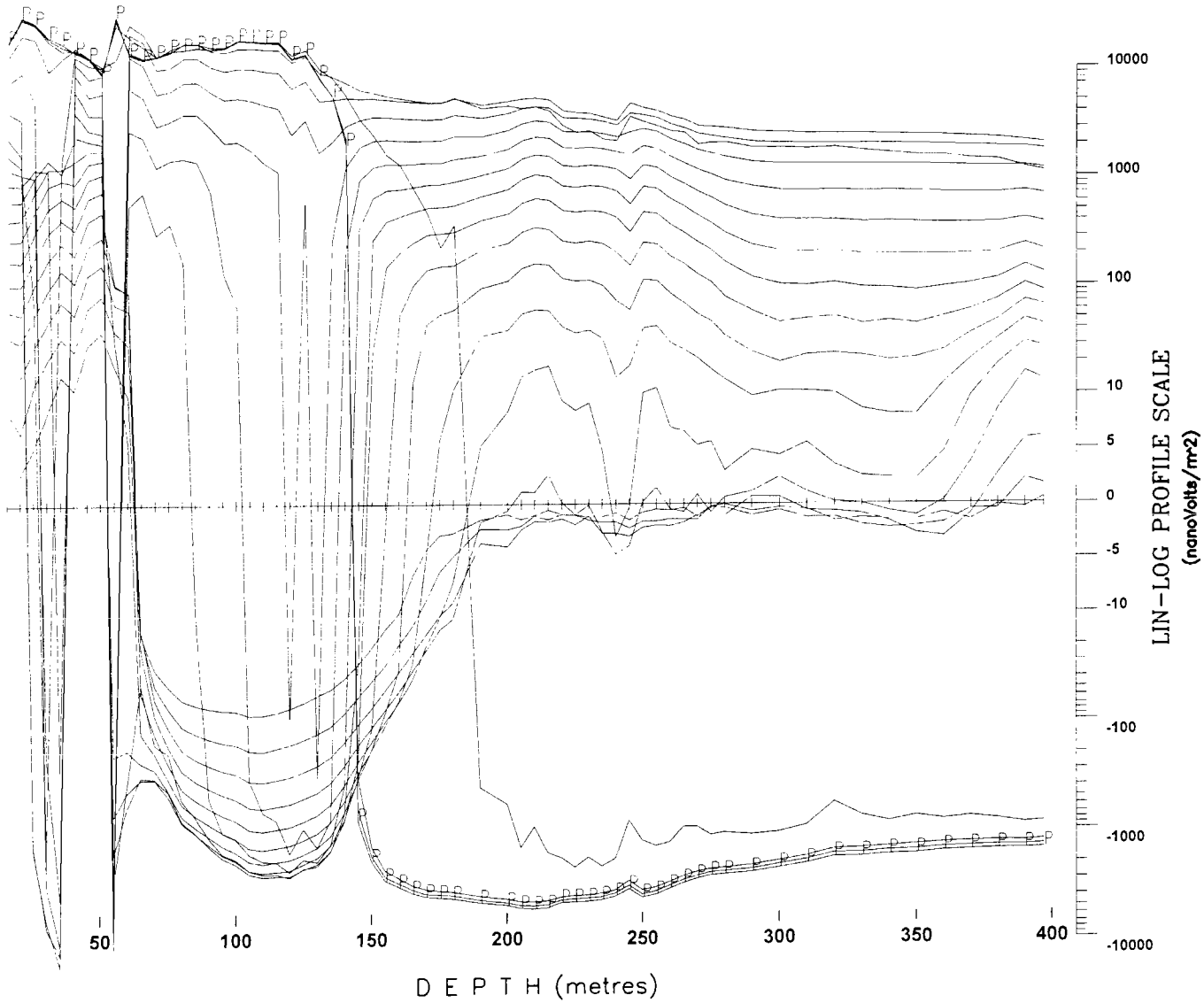
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current	14 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497566E, 5349340N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5 10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Y-GCL07-11-C



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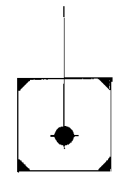


Borehole GCL07-11 - Y Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

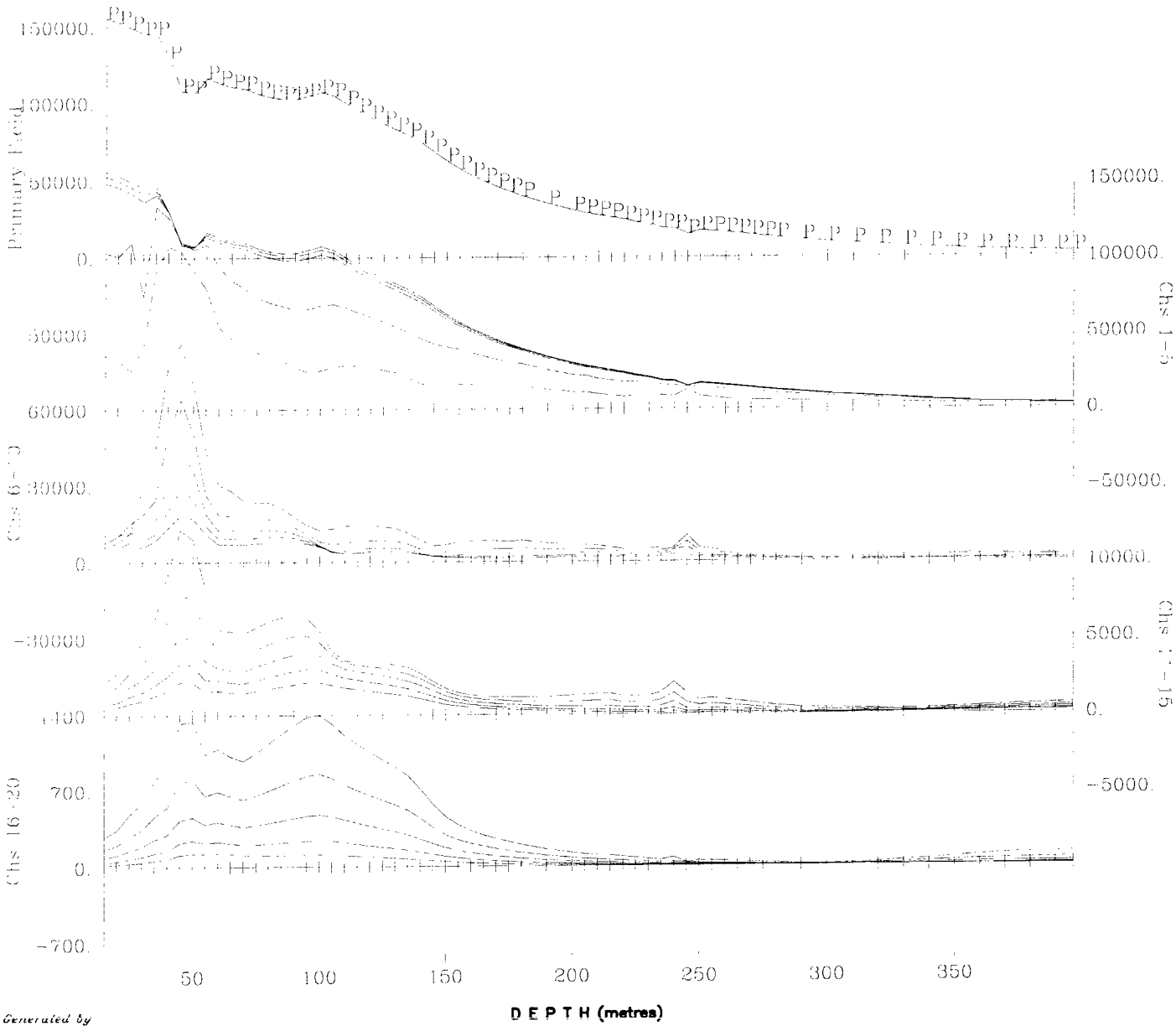
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497566E, 5349340N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (3C Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Y-Tilt-GCL07-11-C



Borehole GCL07-11 - Total Field
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

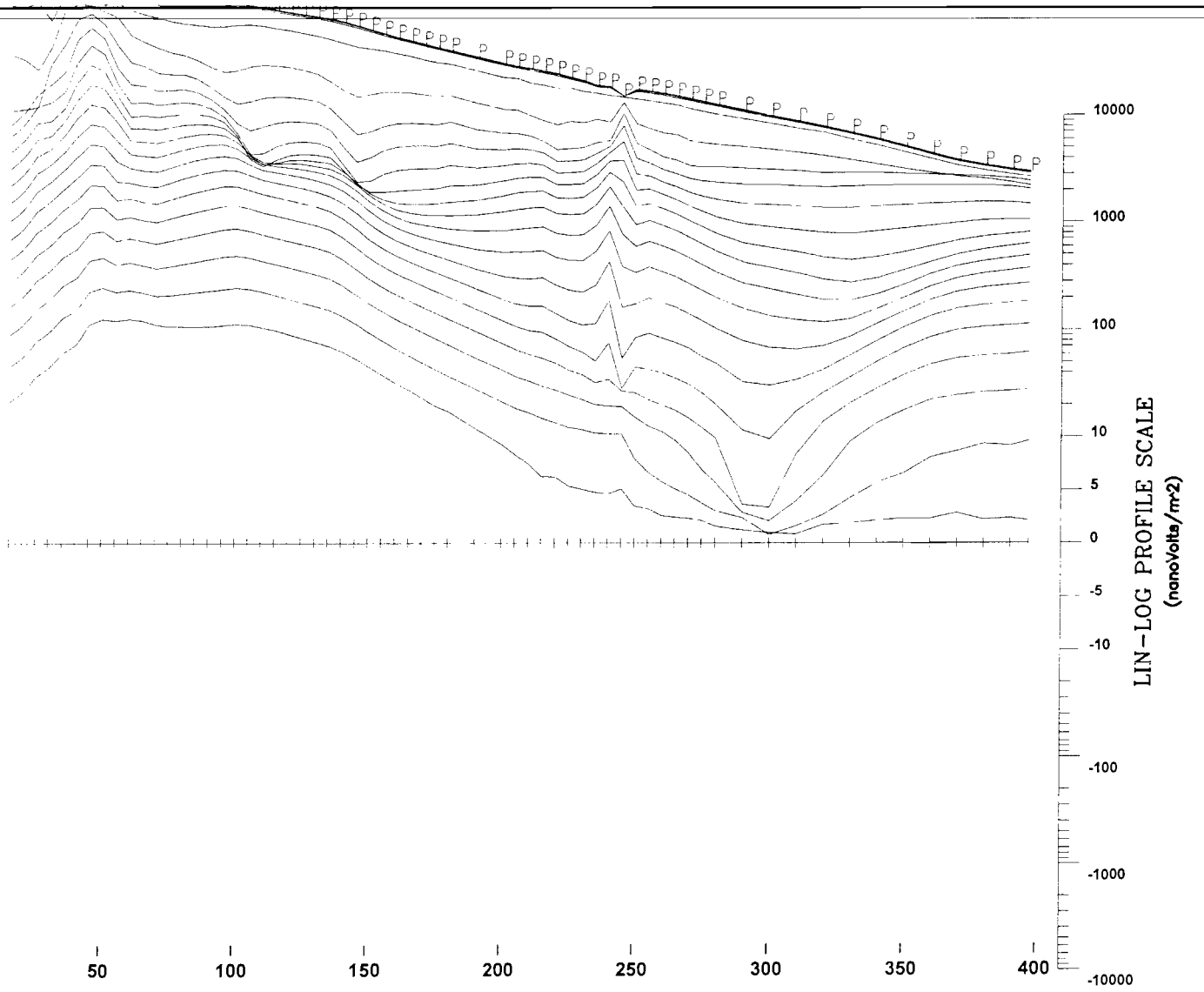
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497566E, 5349340N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG NO CA00500C-BH4A-Tiltrot-TF-GCL07-11-C



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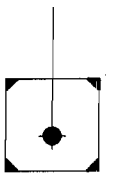


Borehole GCL07-11 - Total Field

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

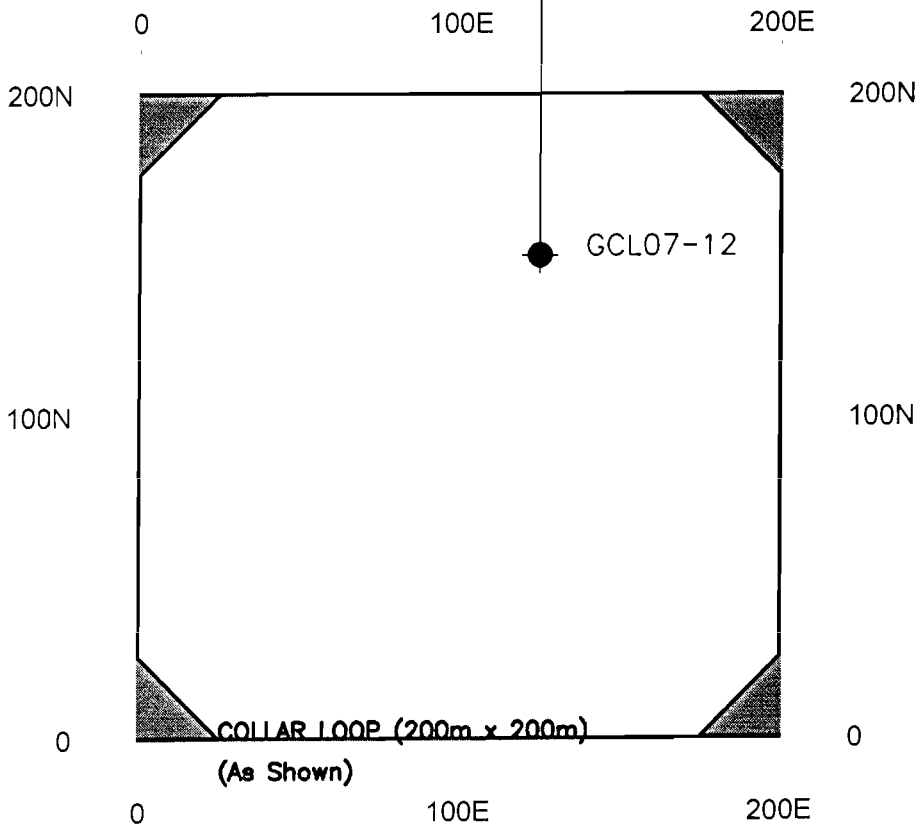
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497566E, 5349340N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanovolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-TF-Tilt-GCL07-11-C

GCL07-12 - BOREHOLE & LOOP LOCATION MAP



Scale 1:2500

25 0 25 50 75 100 125

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

BOREHOLE & LOOP LOCATION MAP

GCL07-12

Borehole Parameters:	DDH #1 =	GCL07-12
	Location =	125E, 150N
	Azimuth & Dip =	325, -45
	DDH #2 =	
	Location =	
	Azimuth & Dip =	
	DDH #3 =	
	Location =	
	Azimuth & Dip =	

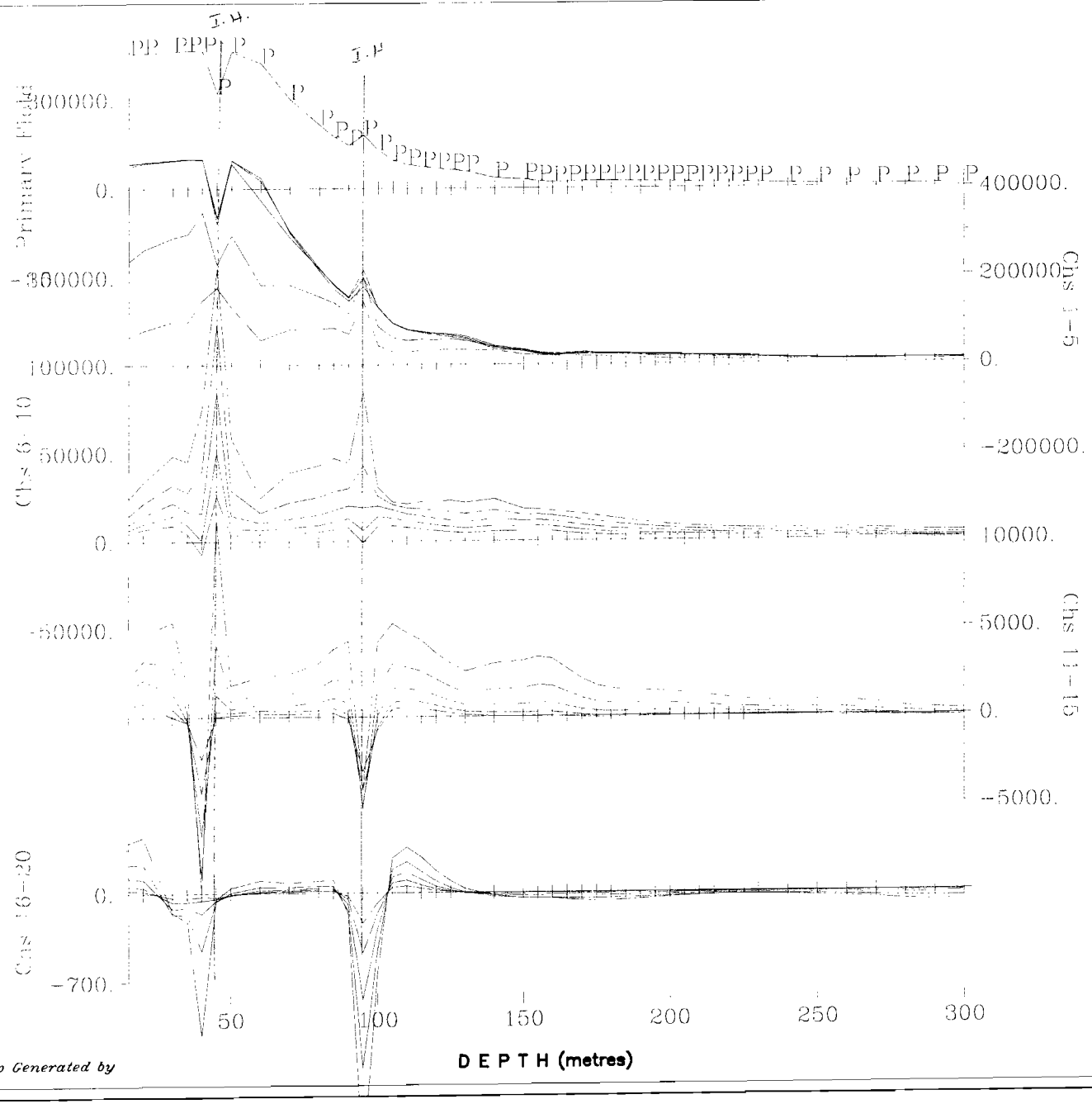
Survey Date:	July 17, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. #: CA00500C-BHTEM-LOOPLOC-GCL07-12

Map Generated by



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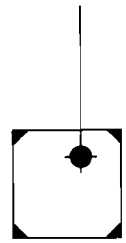


Borehole GCL07-12 - Z Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

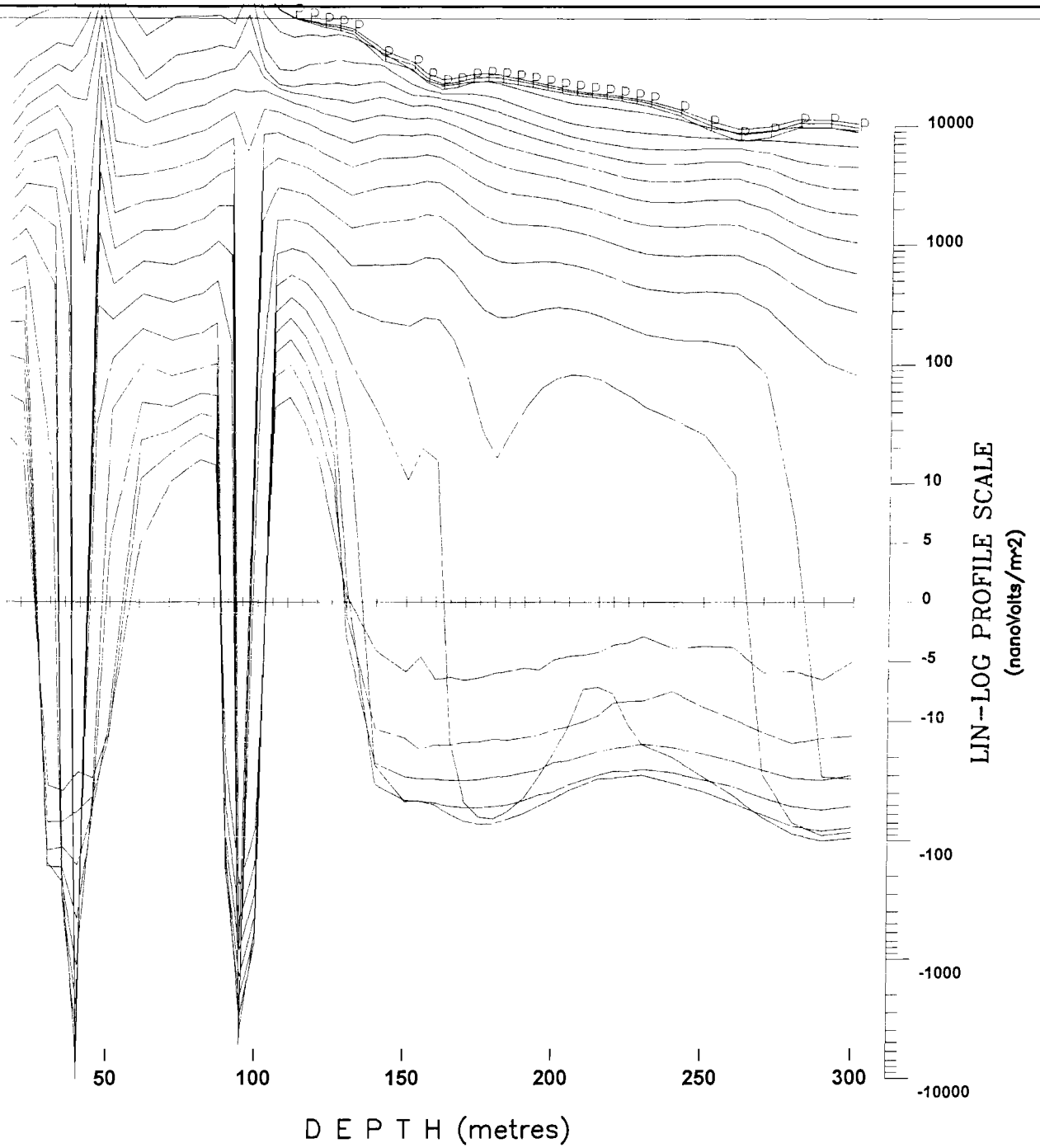
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E:0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 17, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Z-GCL07-12-C



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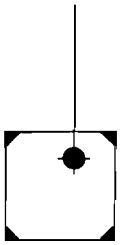


Borehole GCL07-12 - Z Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

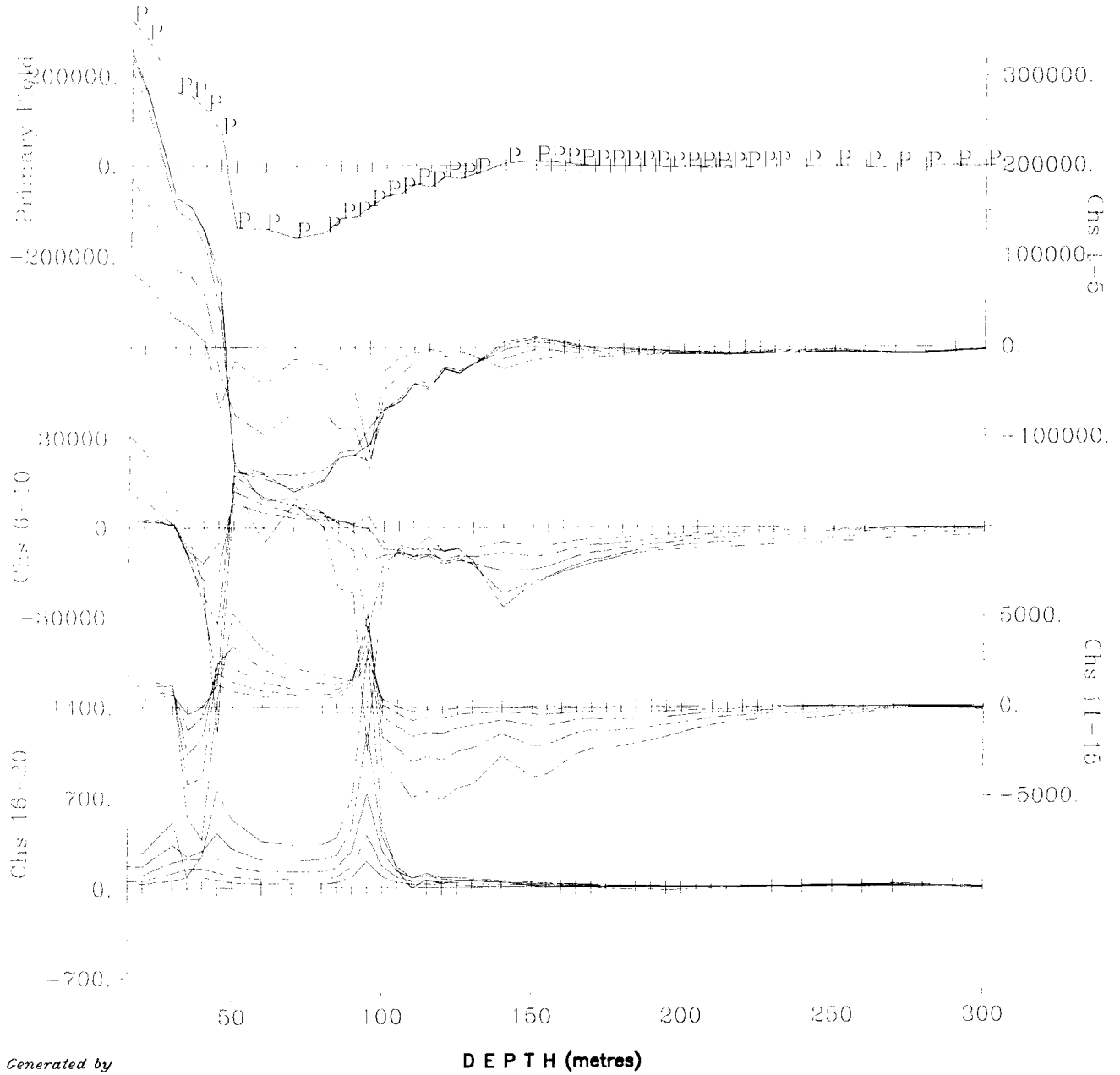
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by.

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Z-Tilt-GCL07-12-C



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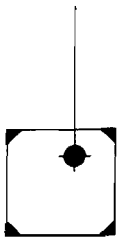


Borehole GCL07-12 - X Component
Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

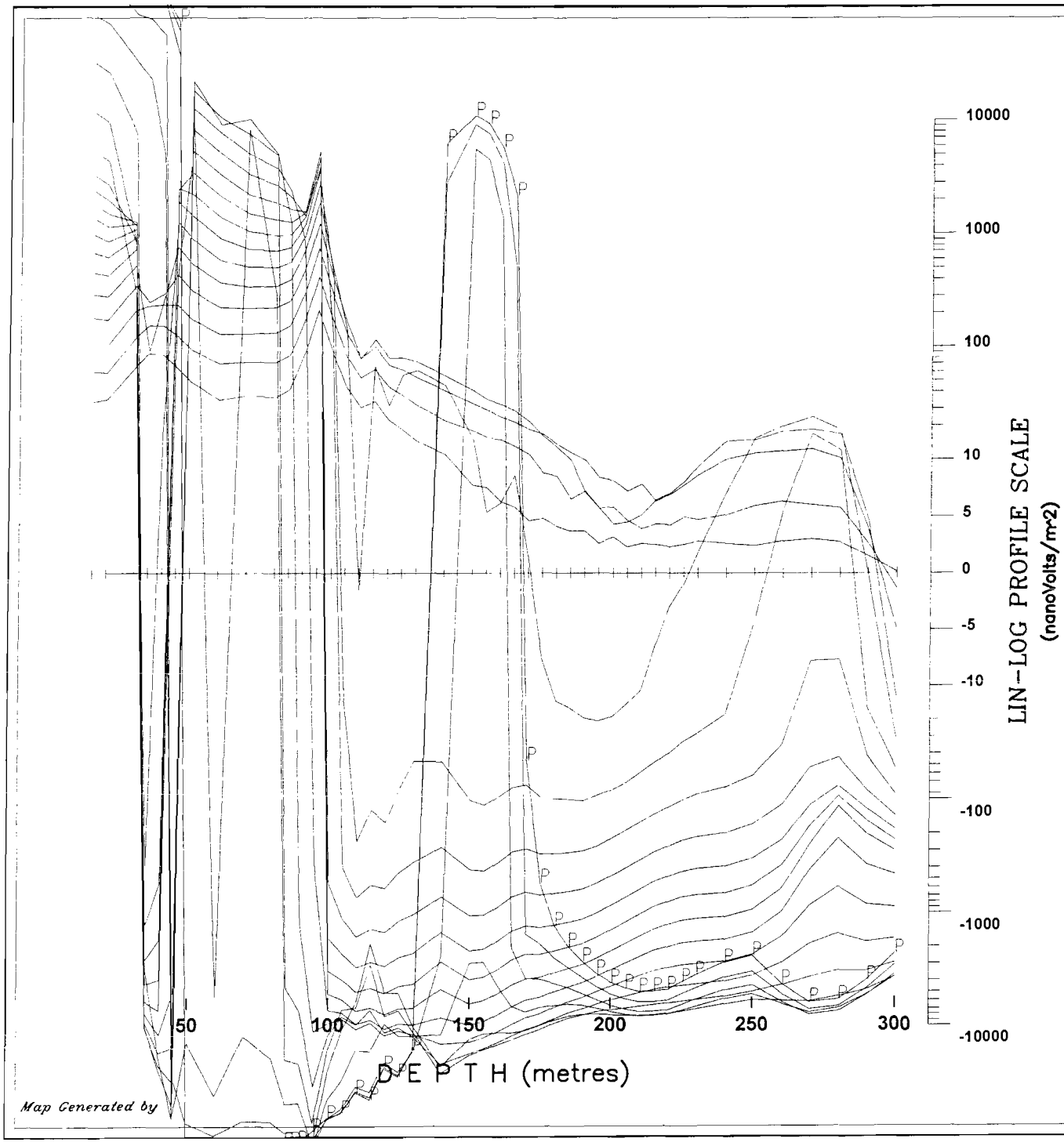
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 17, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BH4A-Tiltrot-X-GCL07-12-C



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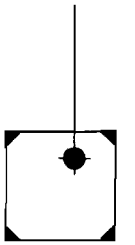


Borehole GCL07-12 - X Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

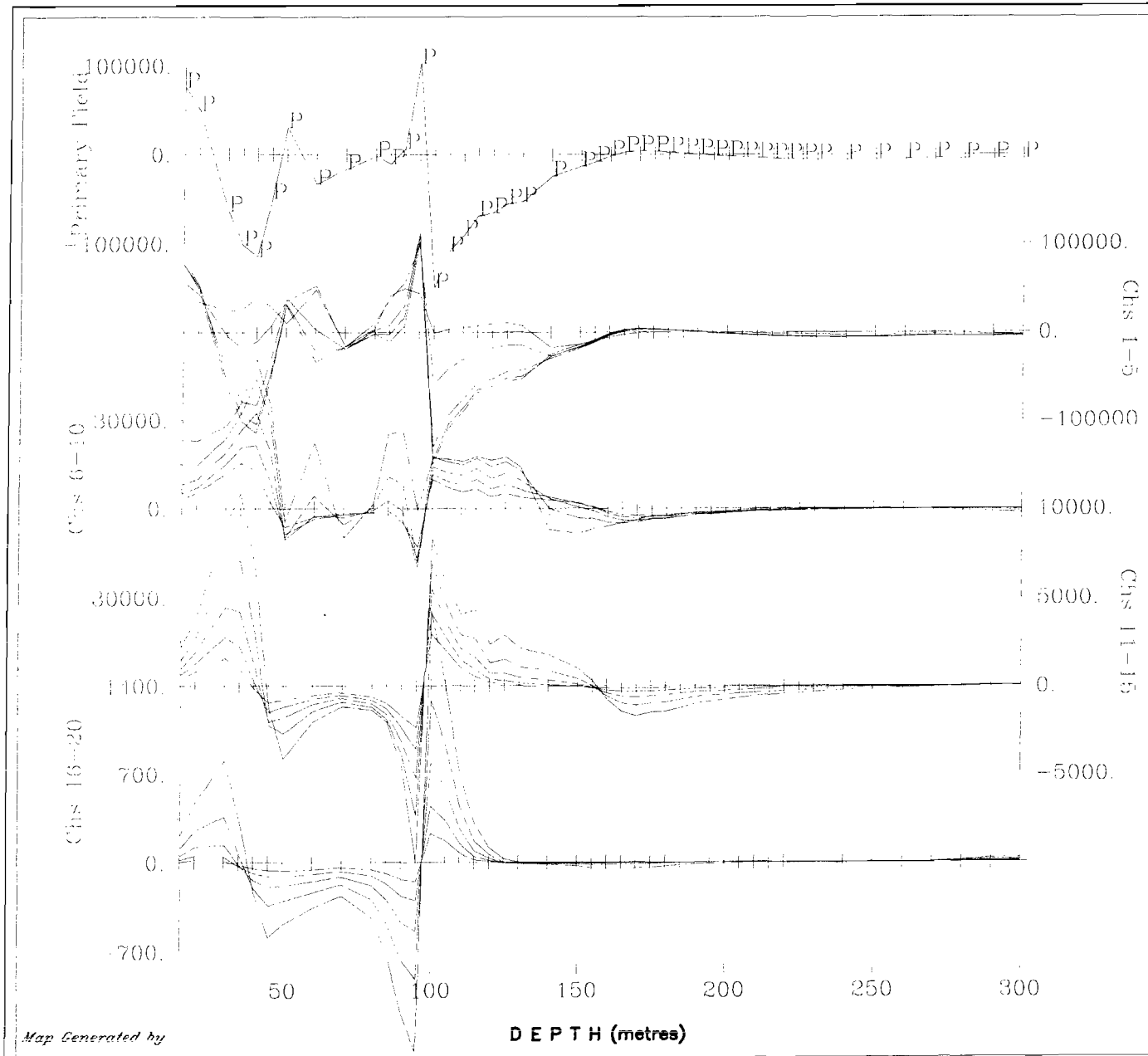
Secondary Electromagnetic Field (dB/dt)

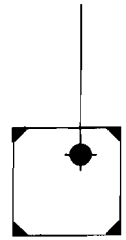
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-X-Tilt-GCL07-12-C





Borehole GCL07-12 - Y Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

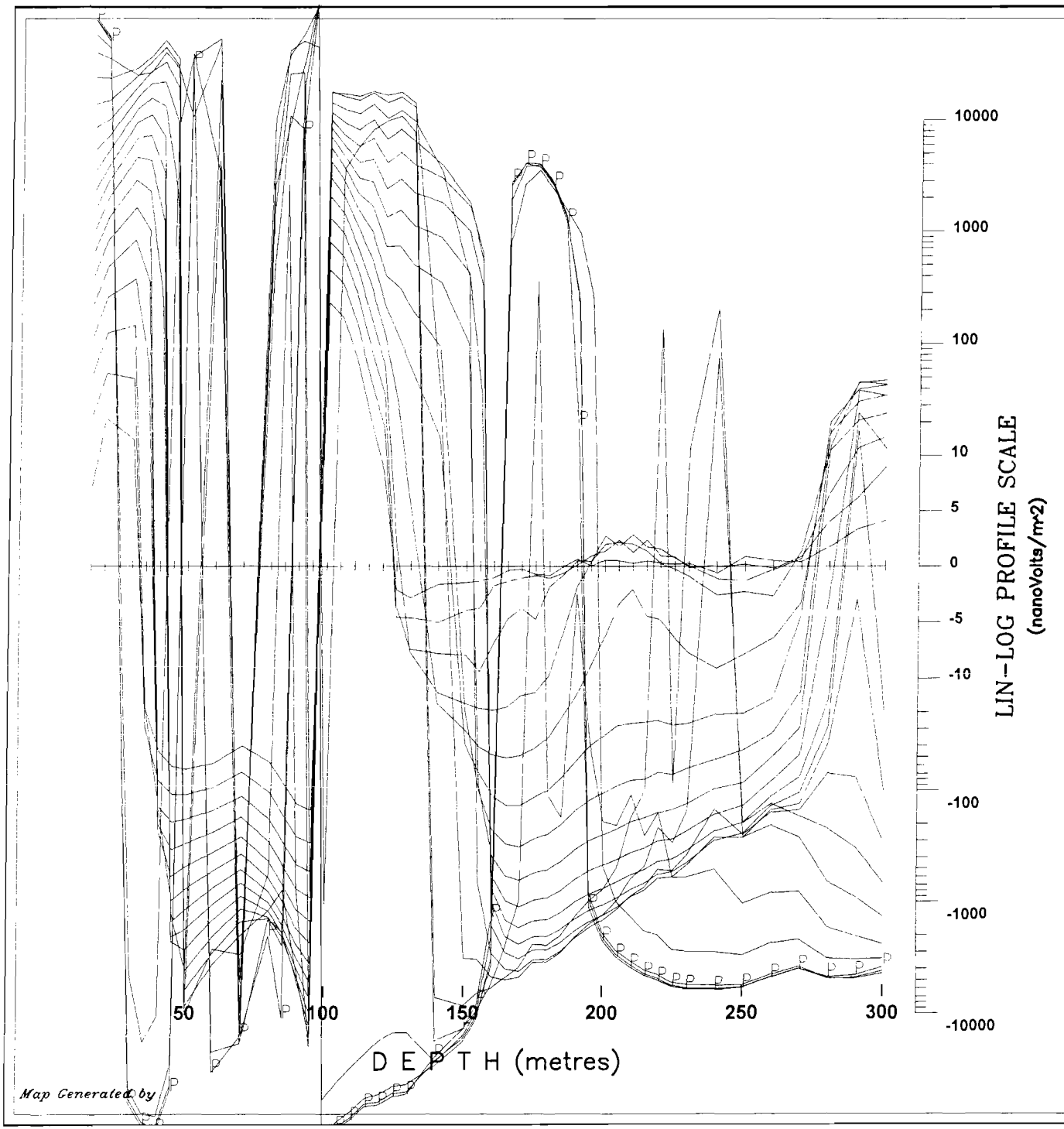
3D FIXED-LOOP BOREHOLE TEM SURVEY

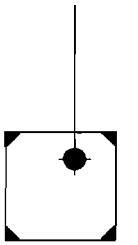
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanovolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	July 17, 2007
Instrumentation:	Rx = Digital Pratem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA005000-BH4A-Tiltrot-Y-GCL07-12-C





Borehole GCL07-12 - Y Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

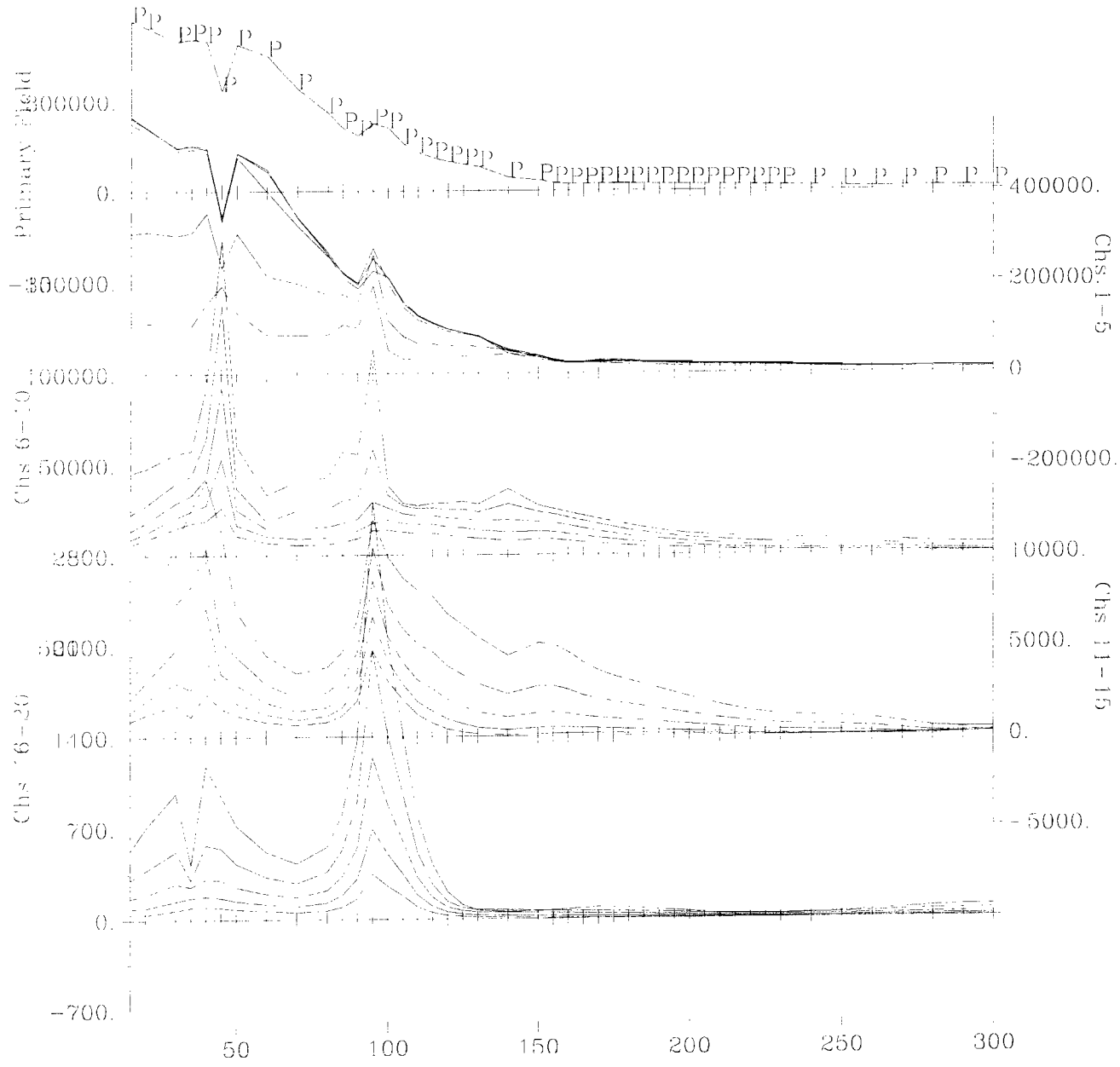
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nonoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Y-Tilt-GCL07-12-C



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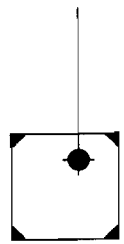


Borehole GCL07-12 - Total Field
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

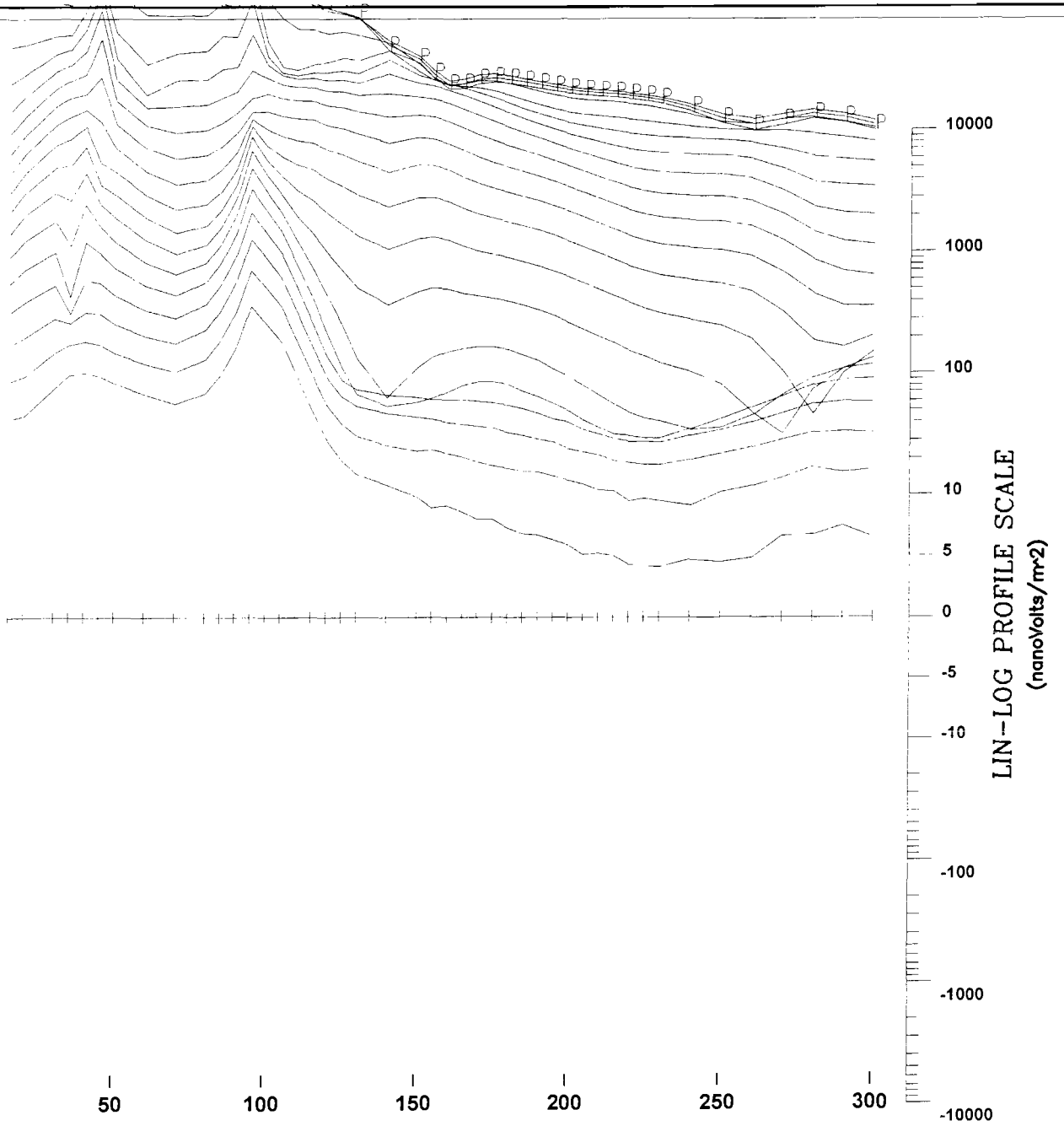
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	390 us, -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 17, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-TF-GCL07-12-C



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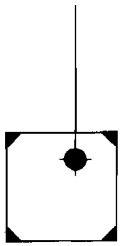


Borehole GCL07-12 - Total Field

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

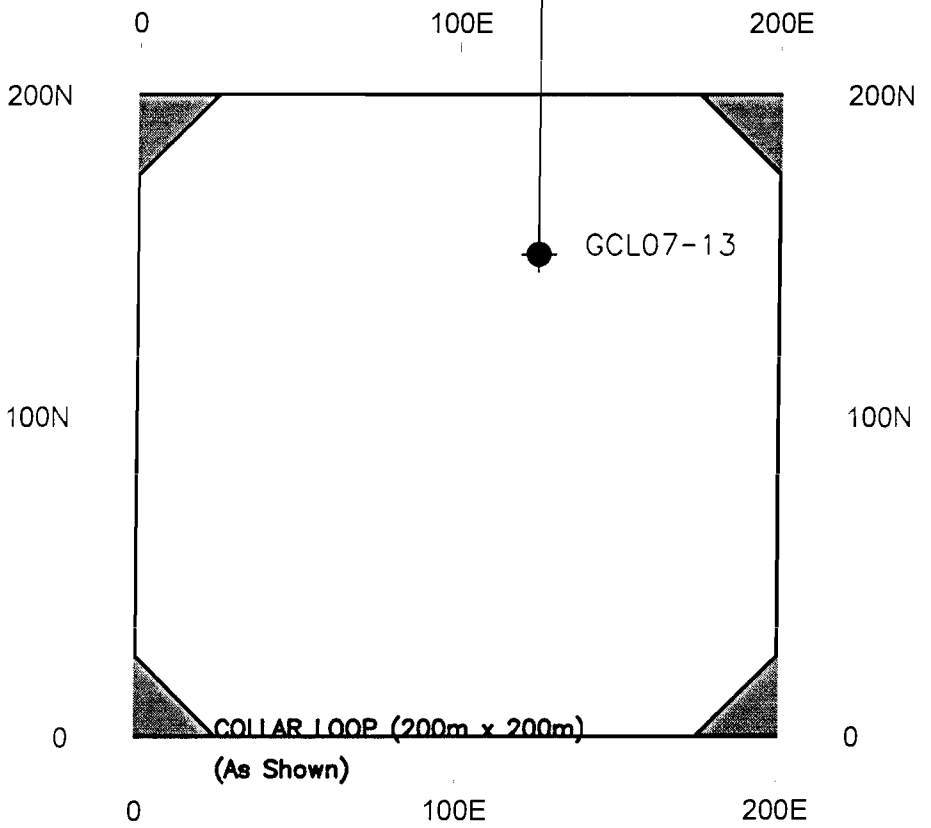
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-TF-Tilt-GCL07-12-C

GCL07-13 - BOREHOLE & LOOP LOCATION MAP



Scale 1:2500

25 0 25 50 75 100 125

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

BOREHOLE & LOOP LOCATION MAP
GCL07-13

Borehole Parameters:	DDH #1 =	GCL07-13
	Location =	125E, 150N
	Azimuth & Dip =	325, -60
	DDH #2 =	
	Location =	
	Azimuth & Dip =	
	DDH #3 =	
	Location =	
	Azimuth & Dip =	

Survey Date:	July 18, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. #: CA00500C-BHTEM-LOOPLOC-GCL07-13

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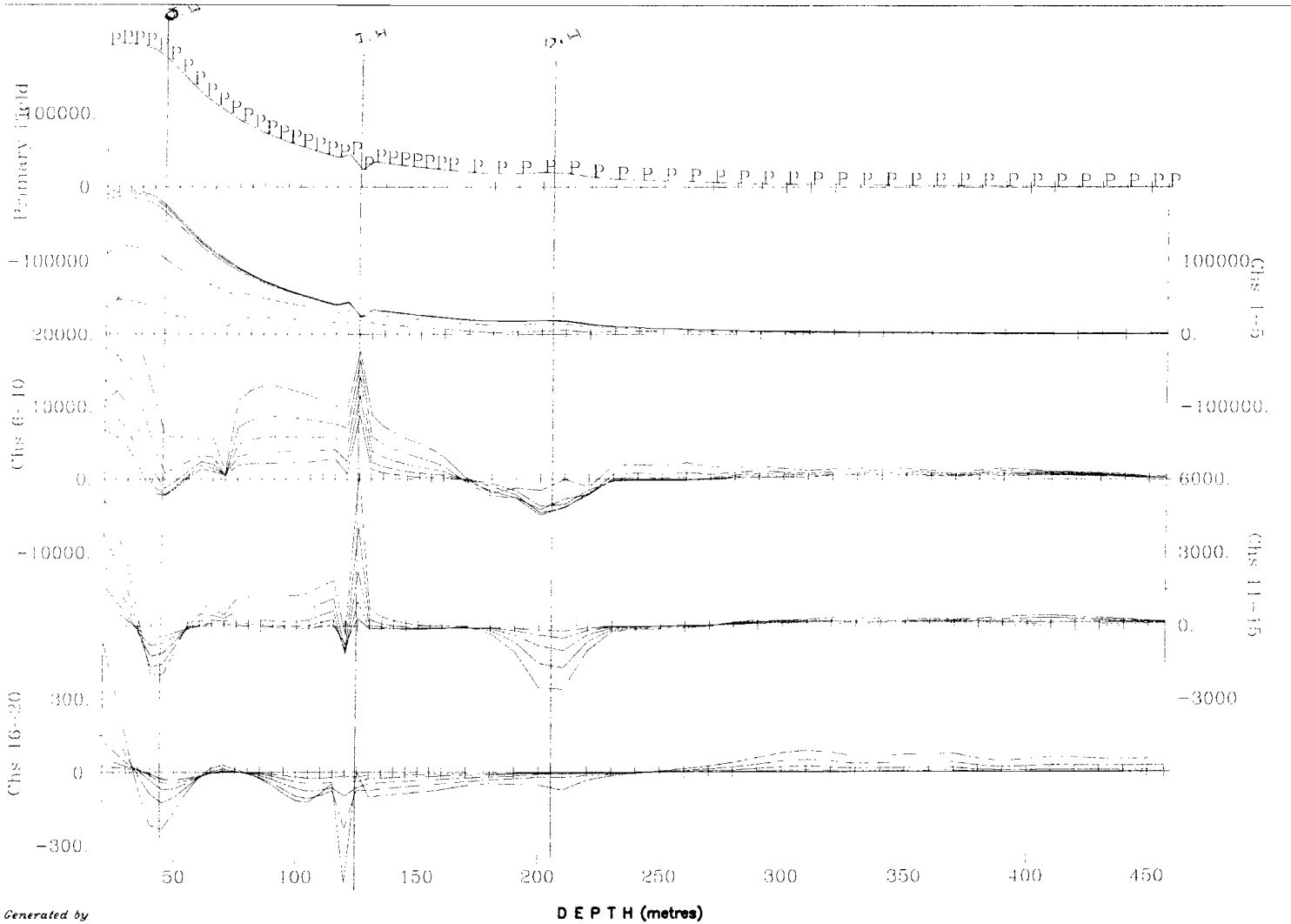

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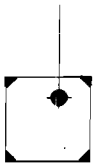

Borehole GCL07-13 - Z Component
Collar Loop
Scale 1:2000

25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
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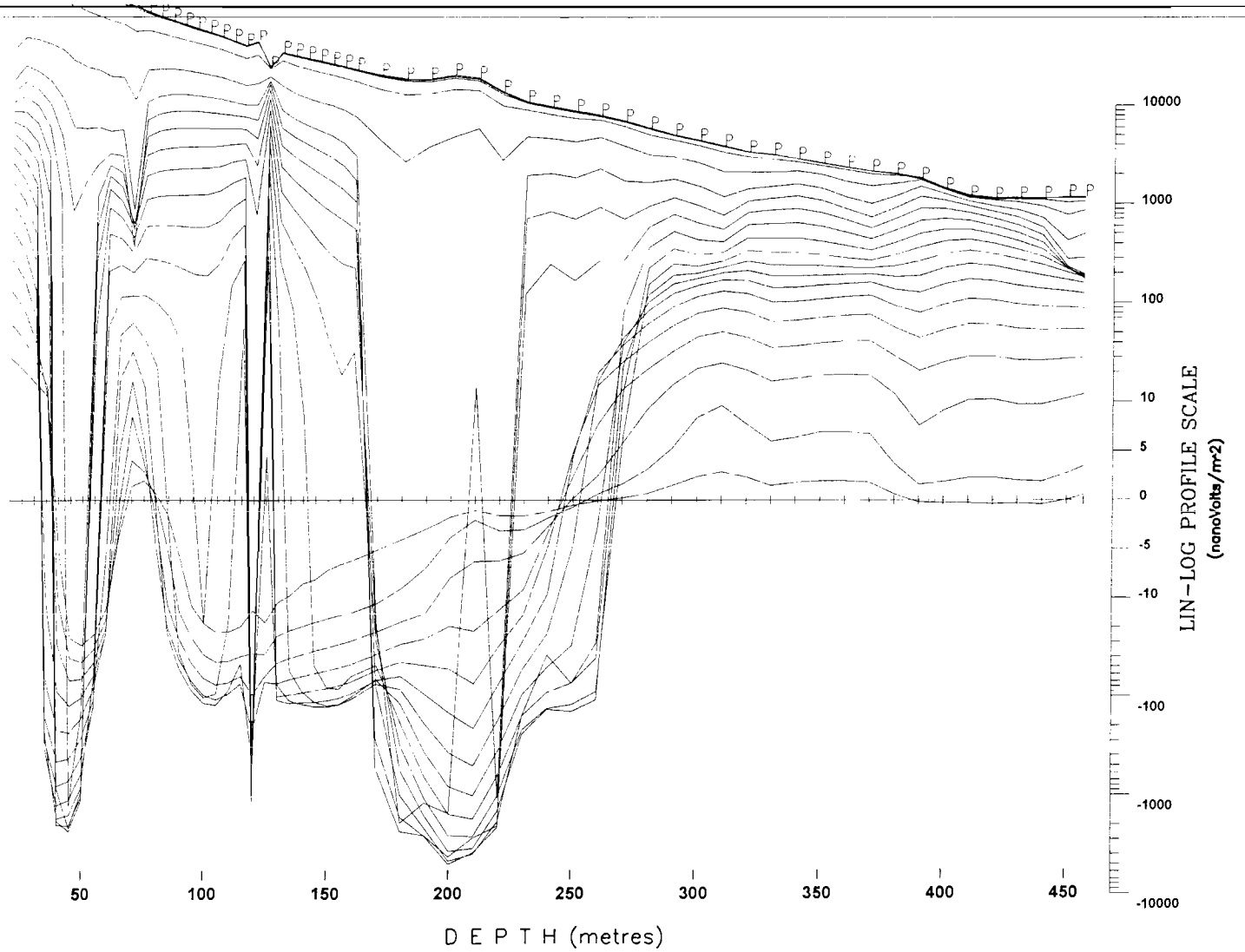
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay	415 us, -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325, -60
Station Interval	5-10 meters
Profile Units.	nanoVolt/m^2
Receiver Coil Orientation	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Z-GCL07-13-C



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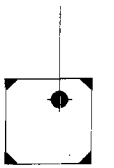


Borehole GCL07-13 - Z Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

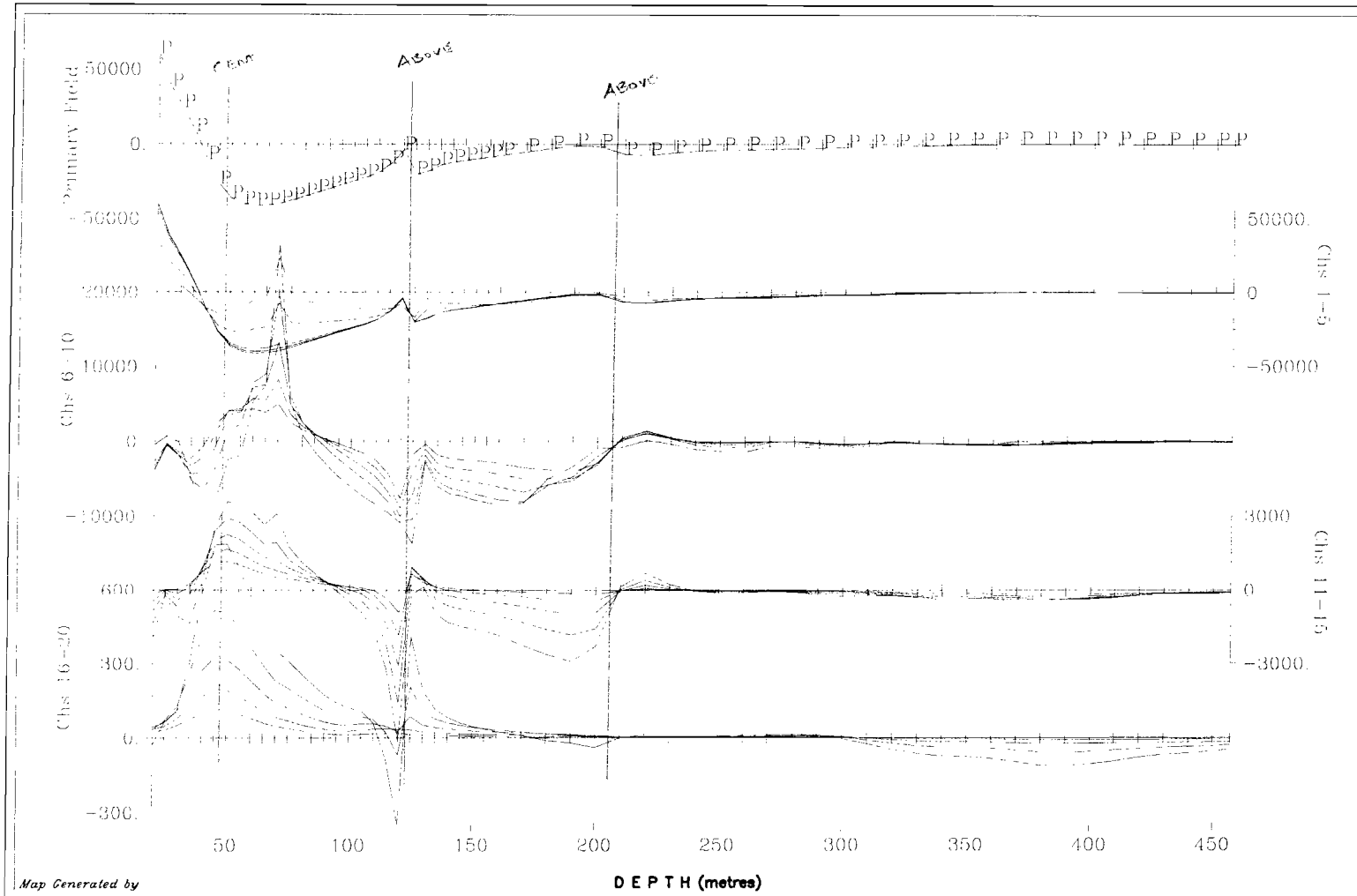
Transmitter Frequency	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip.	325, -60
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation	using Tilt Meter Angles

Survey Date.	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Z-Tilt-GCL07-13-C



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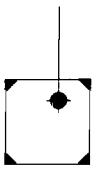


Borehole GCL07-13 - X Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

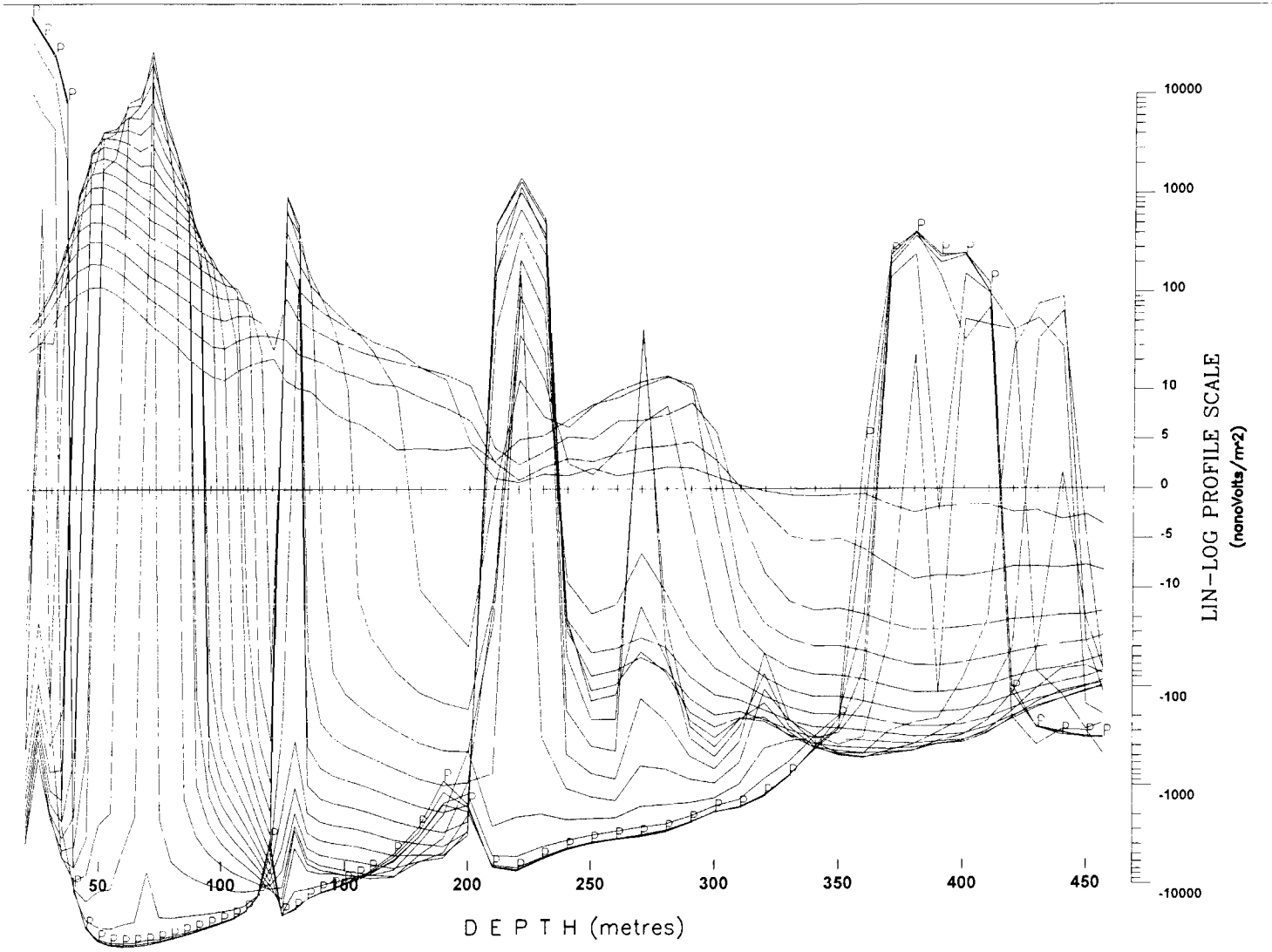
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size	200m x 200m
Tx Loop Location	0-200E 0-200N
Transmitter Current	14 Amps
Tx Turn-Off-Time and Rx Delay	415 us, 480 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip.	325, -60
Station Interval.	5-10 meters
Profile Units	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-X-GCL07-13-C



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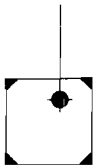


Borehole GCL07-13 - X Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

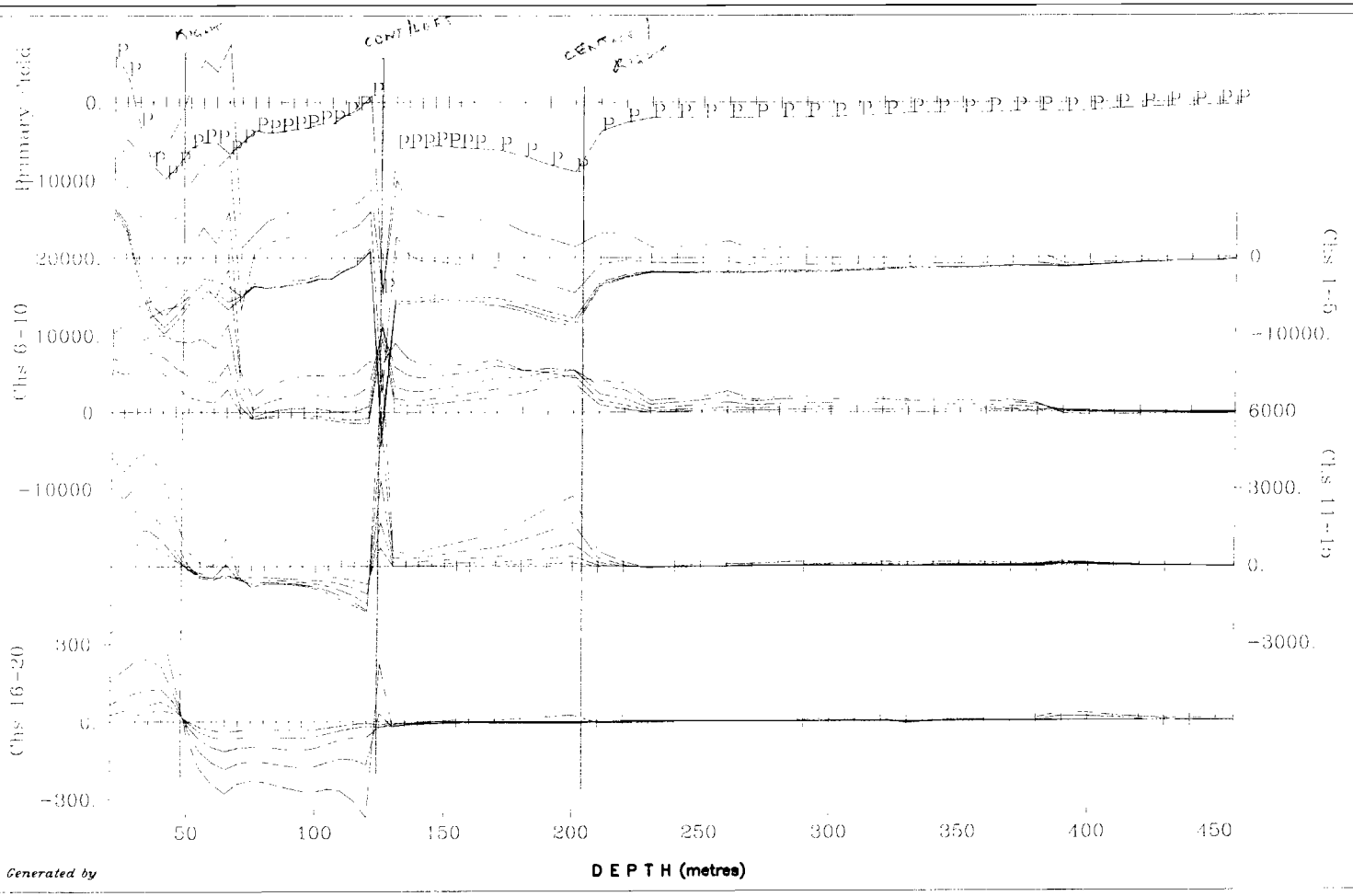
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency	30 Hz (50% duty cycle)
Tx Loop Size	200m x 200m
Tx Loop Location	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325, -60
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by

QUANTEC GEOSCIENCE LTD.

DWG NO. CA00500C-BHLL-X-Tilt-GCL07-13-C



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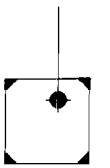


Borehole GCL07-13 - Y Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

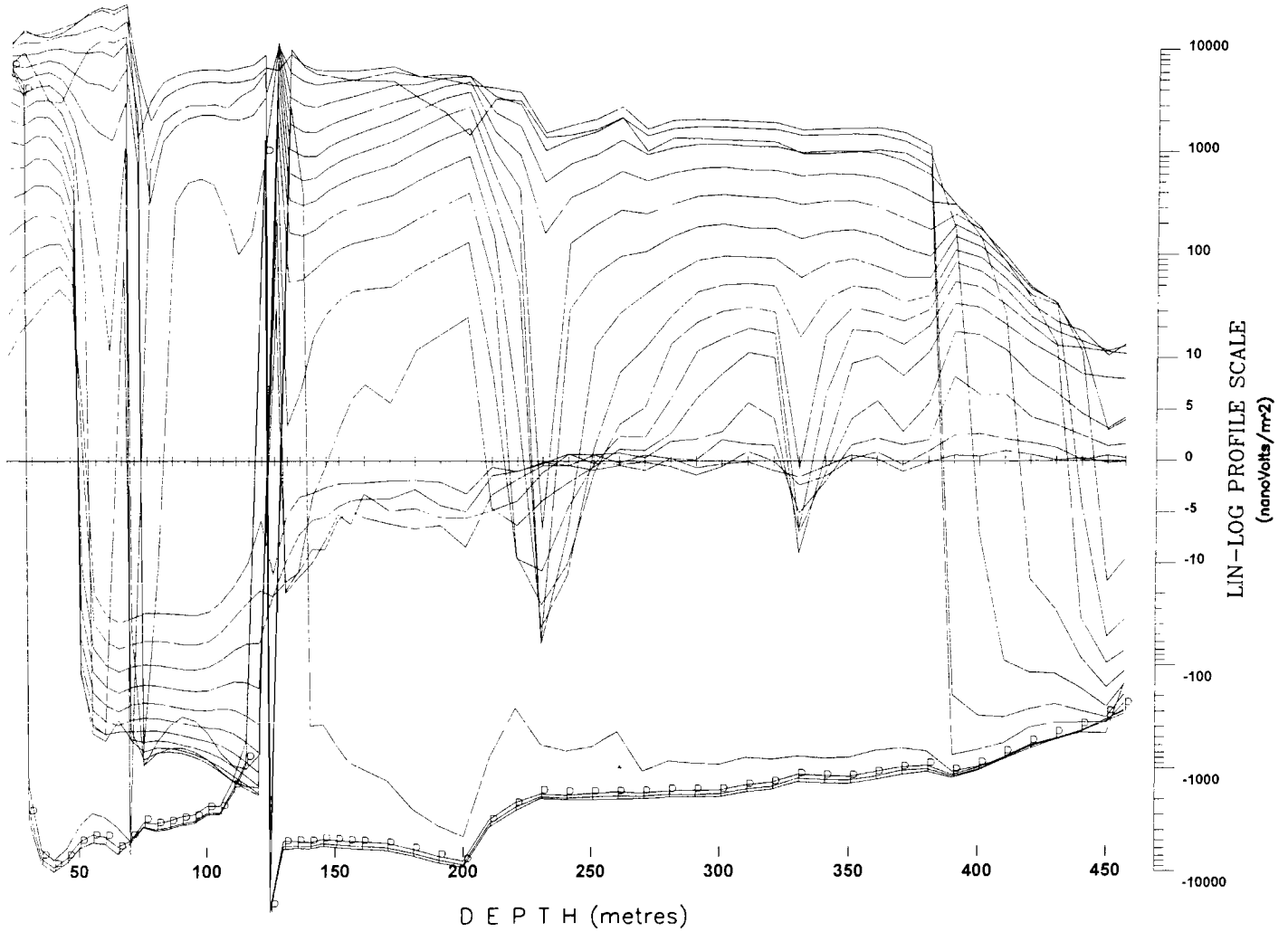
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us, -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325 -60
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	Using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digitol Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Y-GCL07-13-C



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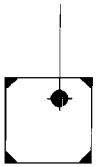


Borehole GCL07-13 - Y Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

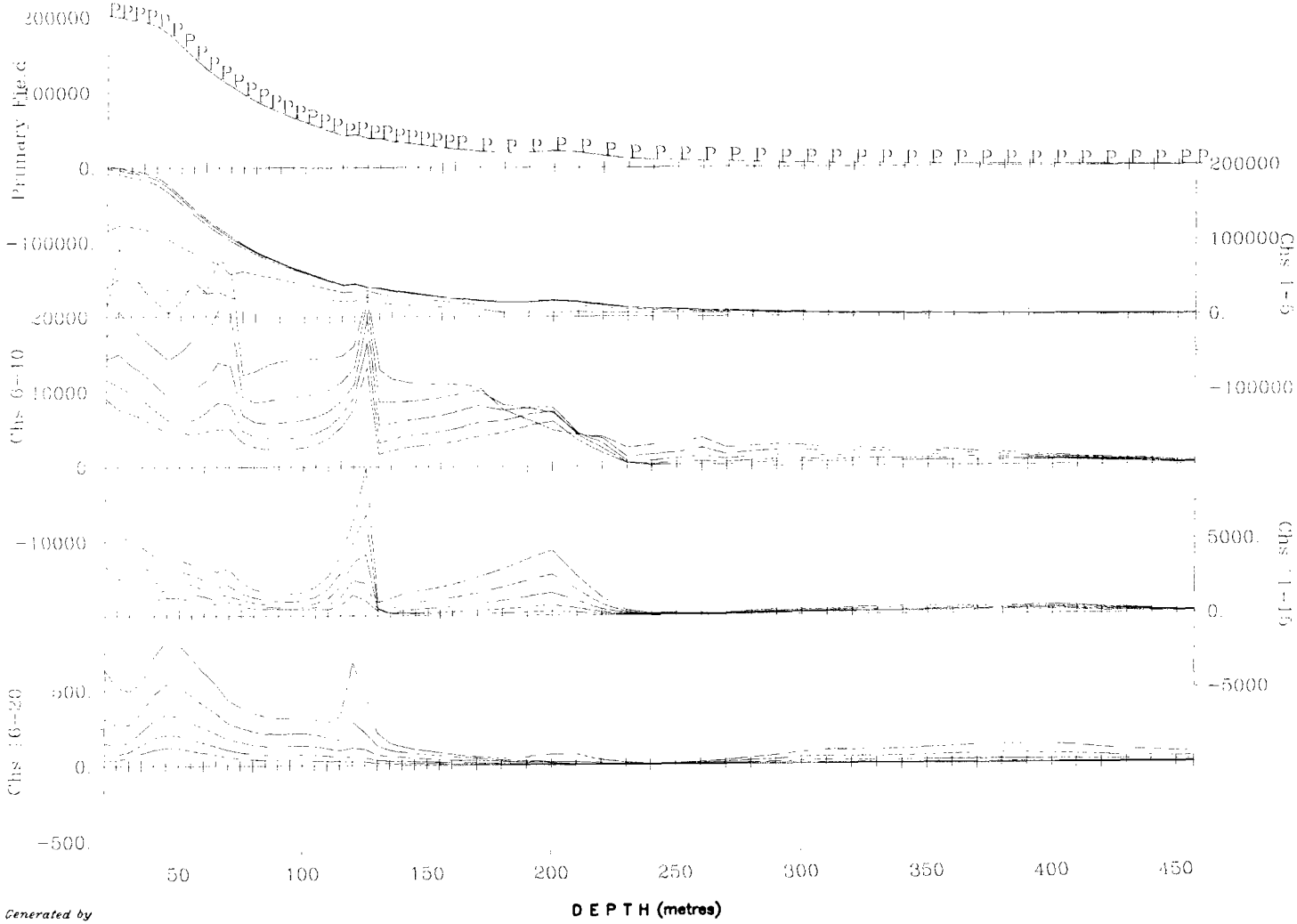
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497544E, 5549415N
Borehole Azimuth, Dip:	325, -60
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Y-Tilt-GCL07-13-C



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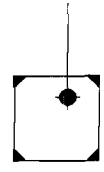


Borehole GCL07-13 - Total Field
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

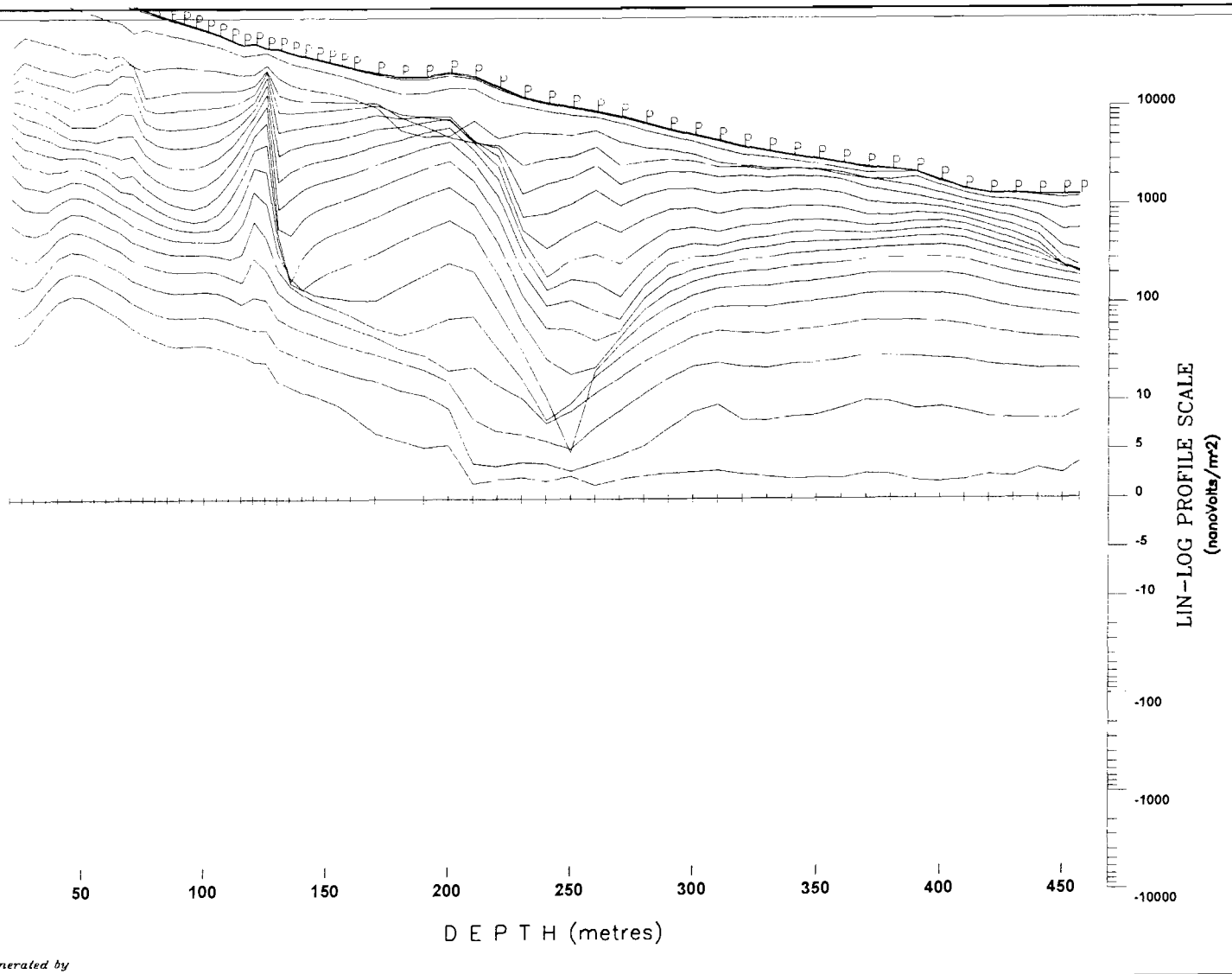
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay	415 us, -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip:	325, -60
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by
QUANTEC GEOSCIENCE LTD.
DWG NO CA00500C-BH4A-Tiltrot-TF-GCL07-13-C



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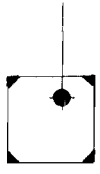


Borehole GCL07-13 - Total Field

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

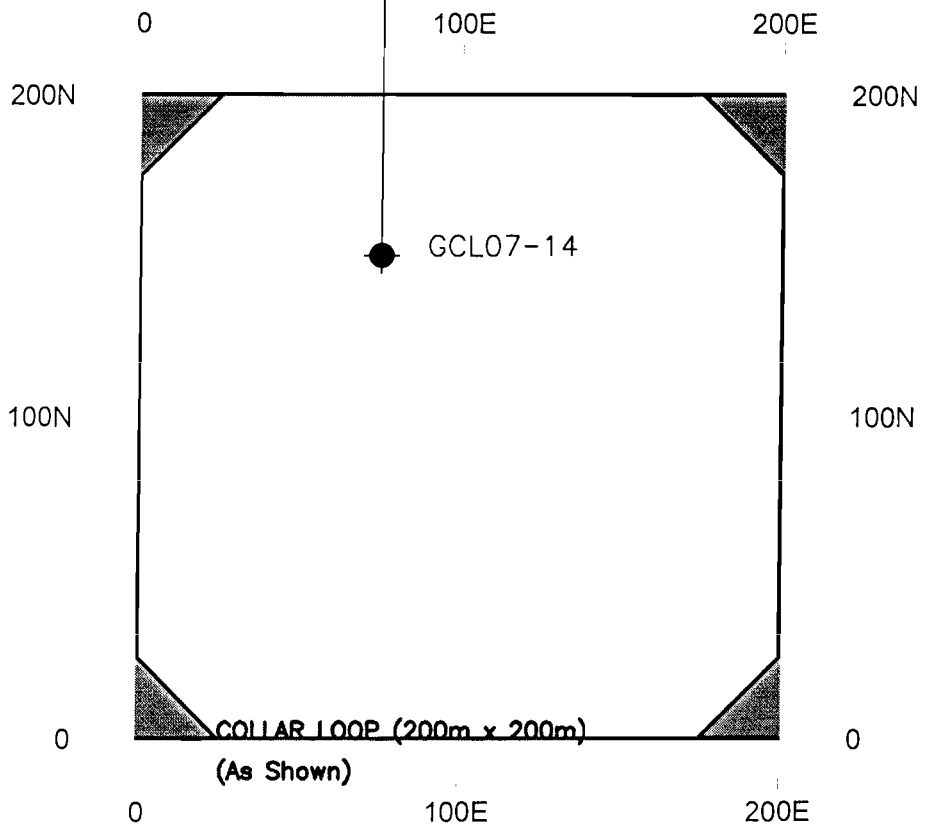
Transmitter Frequency	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location.	0 200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497544E, 5349415N
Borehole Azimuth, Dip.	325, -60
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-TF-Tilt-GCL07-13-C

GCL07-14 - BOREHOLE & LOOP LOCATION MAP



Scale 1:2500

25 0 25 50 75 100 125

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

BOREHOLE & LOOP LOCATION MAP
GCL07-14

Borehole Parameters:	DDH #1 =	GCL07-14
	Location =	75E, 150N
	Azimuth & Dip =	325, -45
	DDH #2 =	
	Location =	
	Azimuth & Dip =	
	DDH #3 =	
	Location =	
	Azimuth & Dip =	

Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. #: CA00500C-BHTEM-LOOPLOC-GCL07-14

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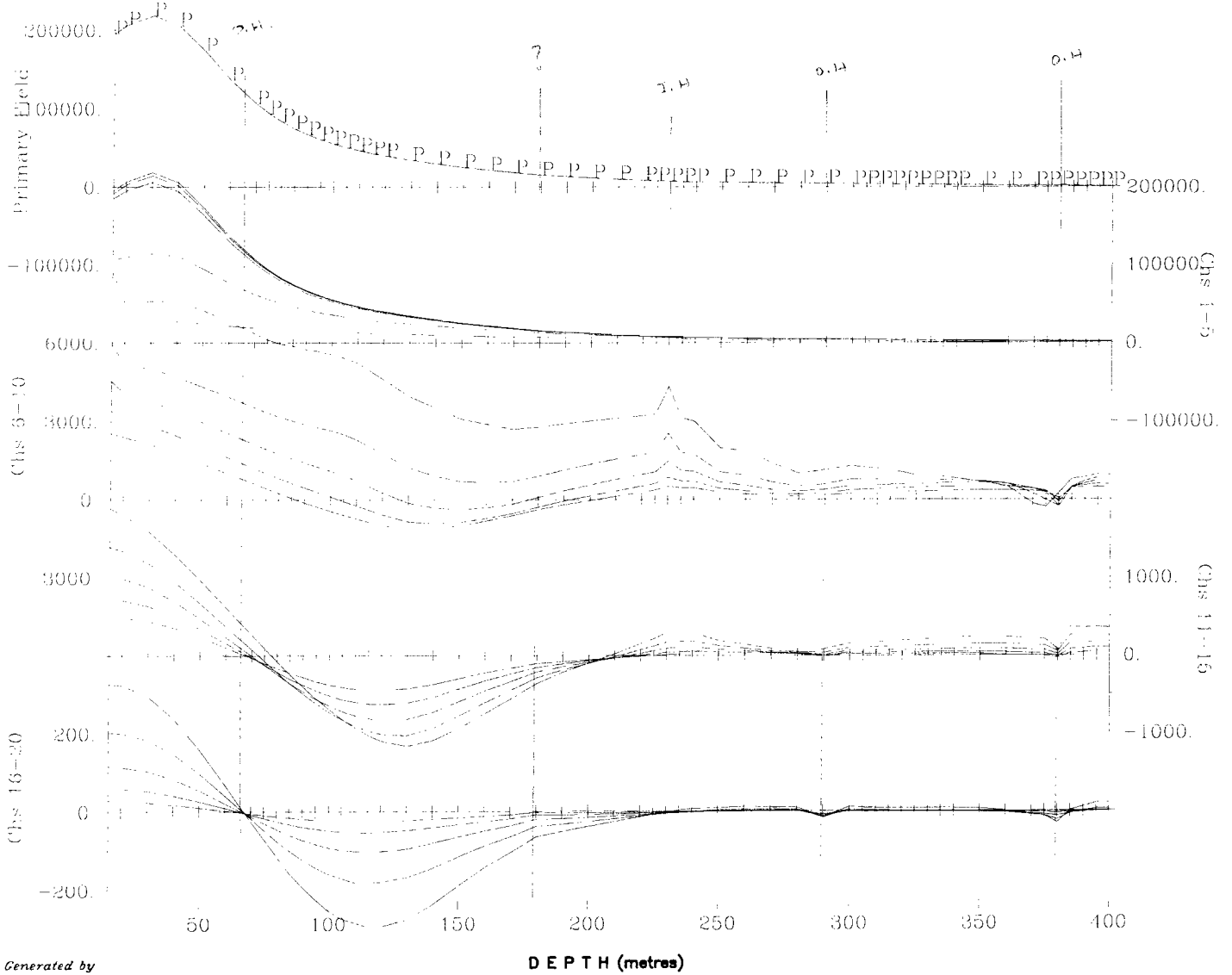

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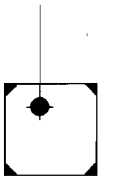


Borehole GCL07-14 – Z Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

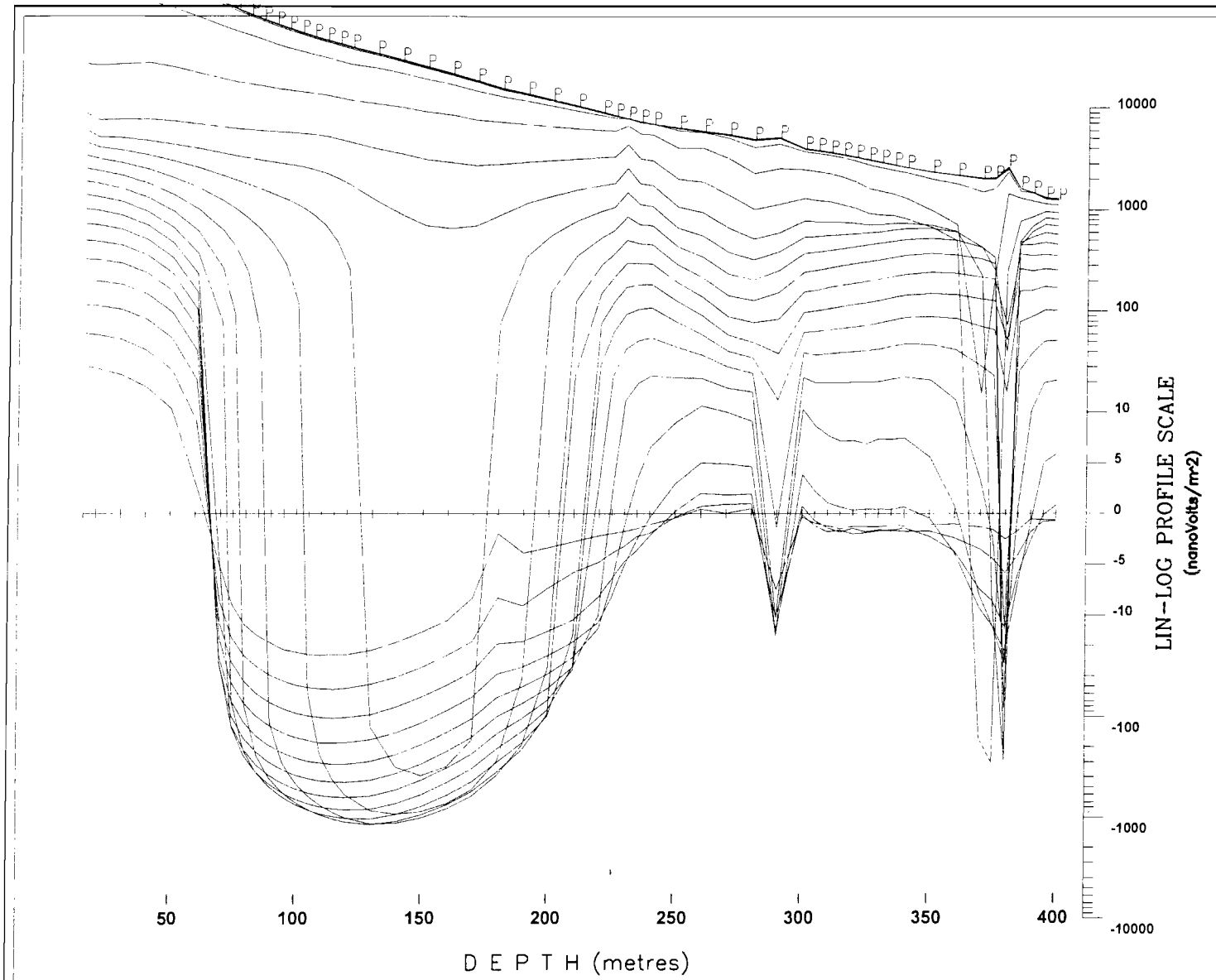
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us, -80 us
Borehole Location:	497502E, 5349387N
Borehole Azimuth, Dip:	325, -60
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Z-GCL07-14-C



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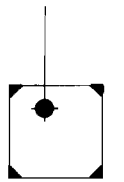


Borehole GCL07-14 – Z Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

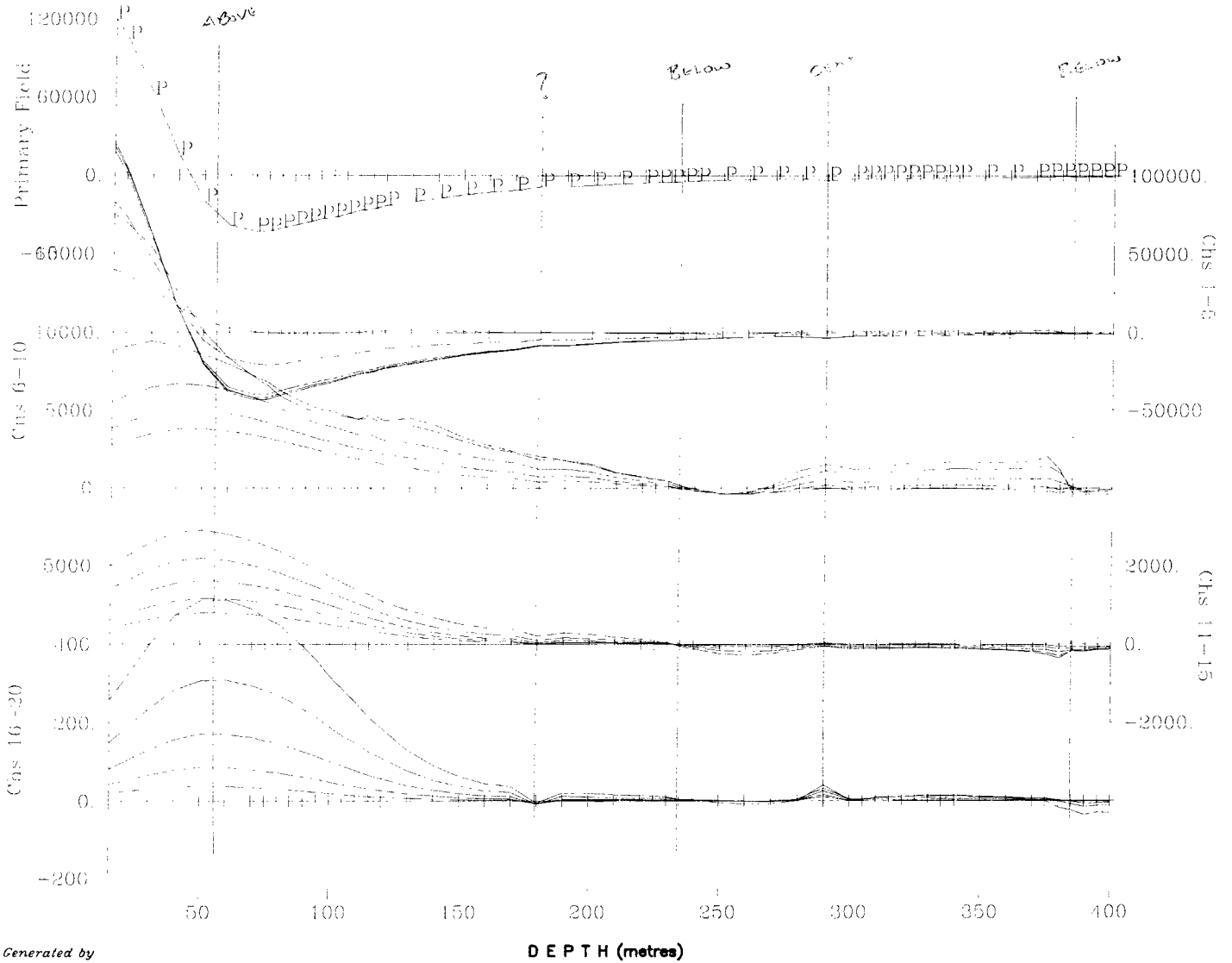
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497502E, 5349387N
Borehole Azimuth, Dip	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Z-Tilt-GCL07-14-C



Map Generated by

Borehole GCL07-14 - X Component
Collar Loop
Scale 1:2000

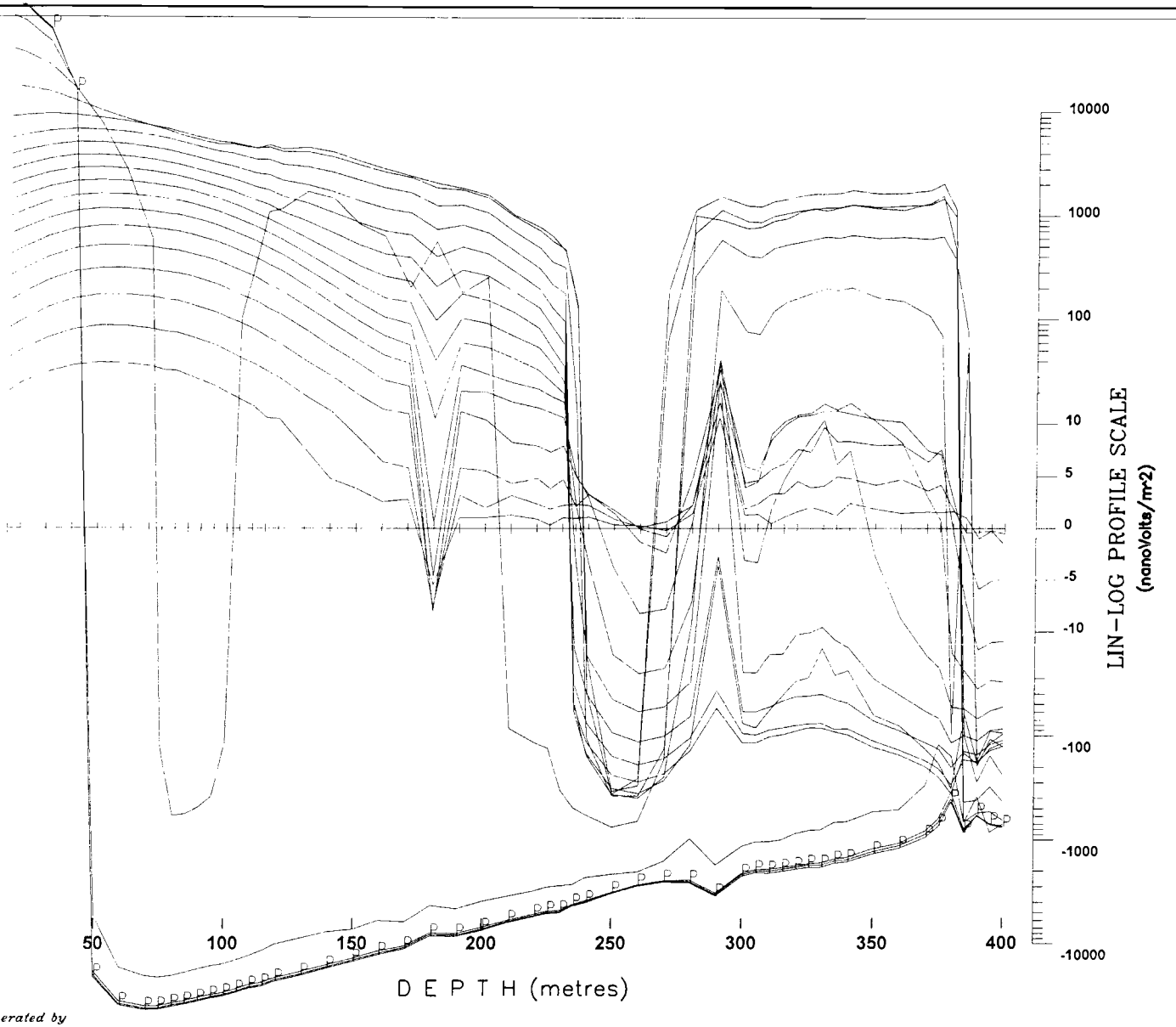
25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us, -80 us
Borehole Location:	497502E, 5349387N
Borehole Azimuth, Dip:	325, -60
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-X-GCL07-14-C



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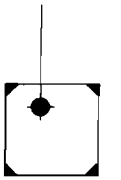


Borehole GCL07-14 - X Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

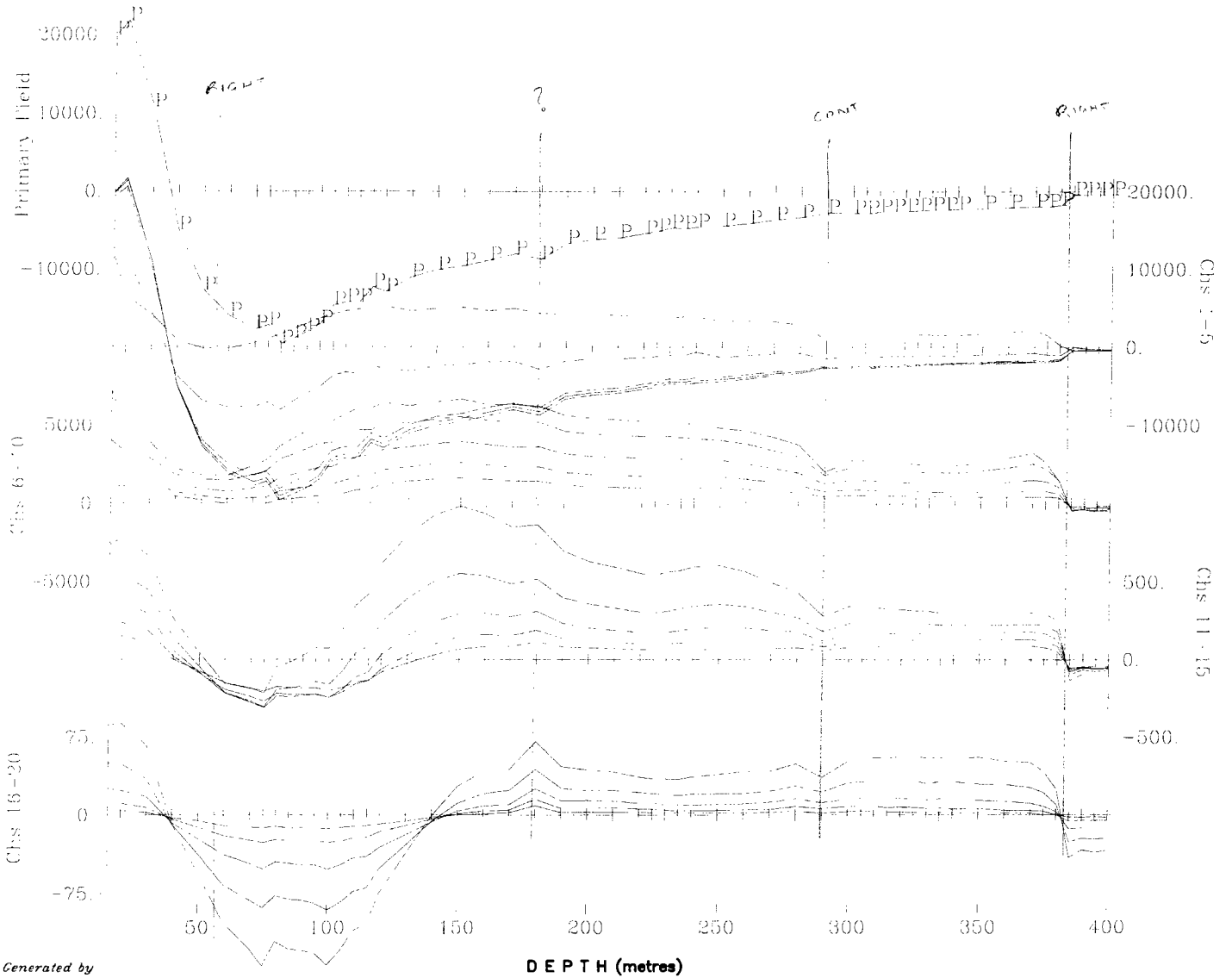
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497502E, 5349387N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-X-Tilt-GCL07-14-C



Borehole GCL07-14 - Y Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

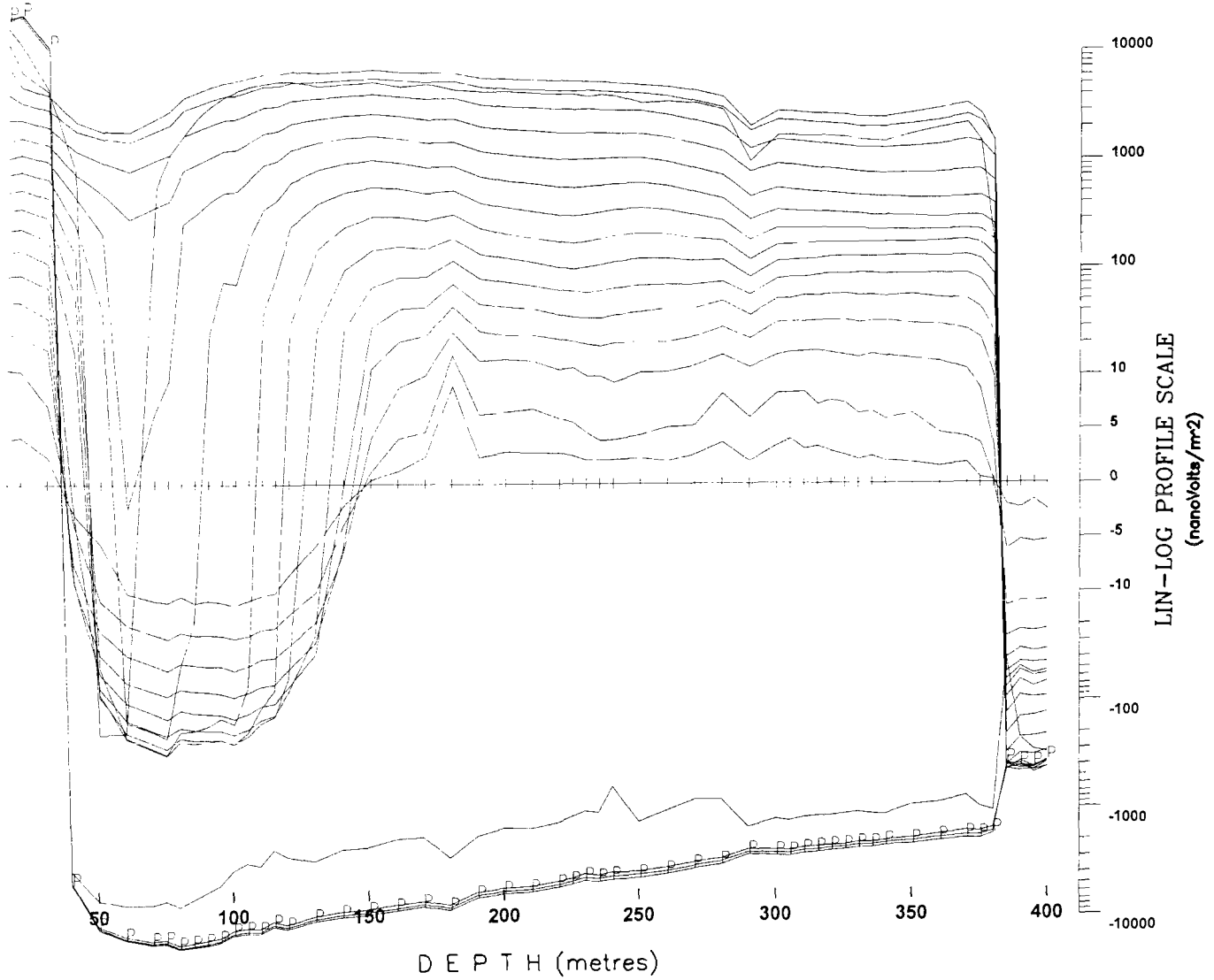
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us, -80 us
Borehole Location:	497502E, 5349387N
Borehole Azimuth, Dip:	325, -60
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	Geonics 3D probe + 500m cable
	Tx = Geonics EM-57 (1800W)

Surveyed & Processed By:
QUANTEC GEOSCIENCE LTD.
DWG. NO: CA00500C-BH4A-Tiltrot-Y-GCL07-14-C



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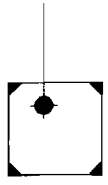


Borehole GCL07-14 - Y Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

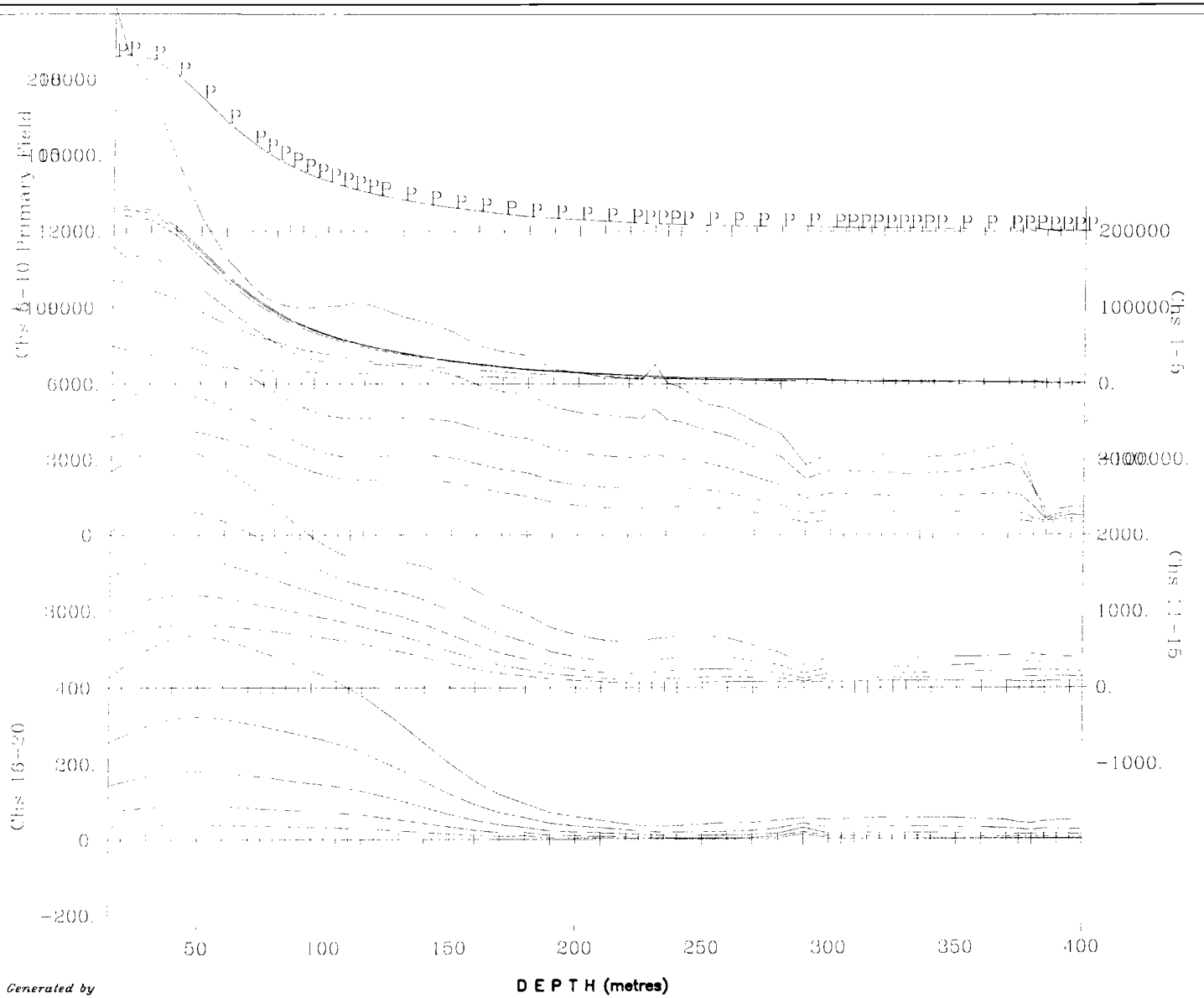
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E,0-200N
Transmitter Current	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497502E, 5349387N
Borehole Azimuth, Dip:	325 -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Y-Tilt-GCL07-14-C



Map Generated by

Borehole GCL07-14 - Total Field
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

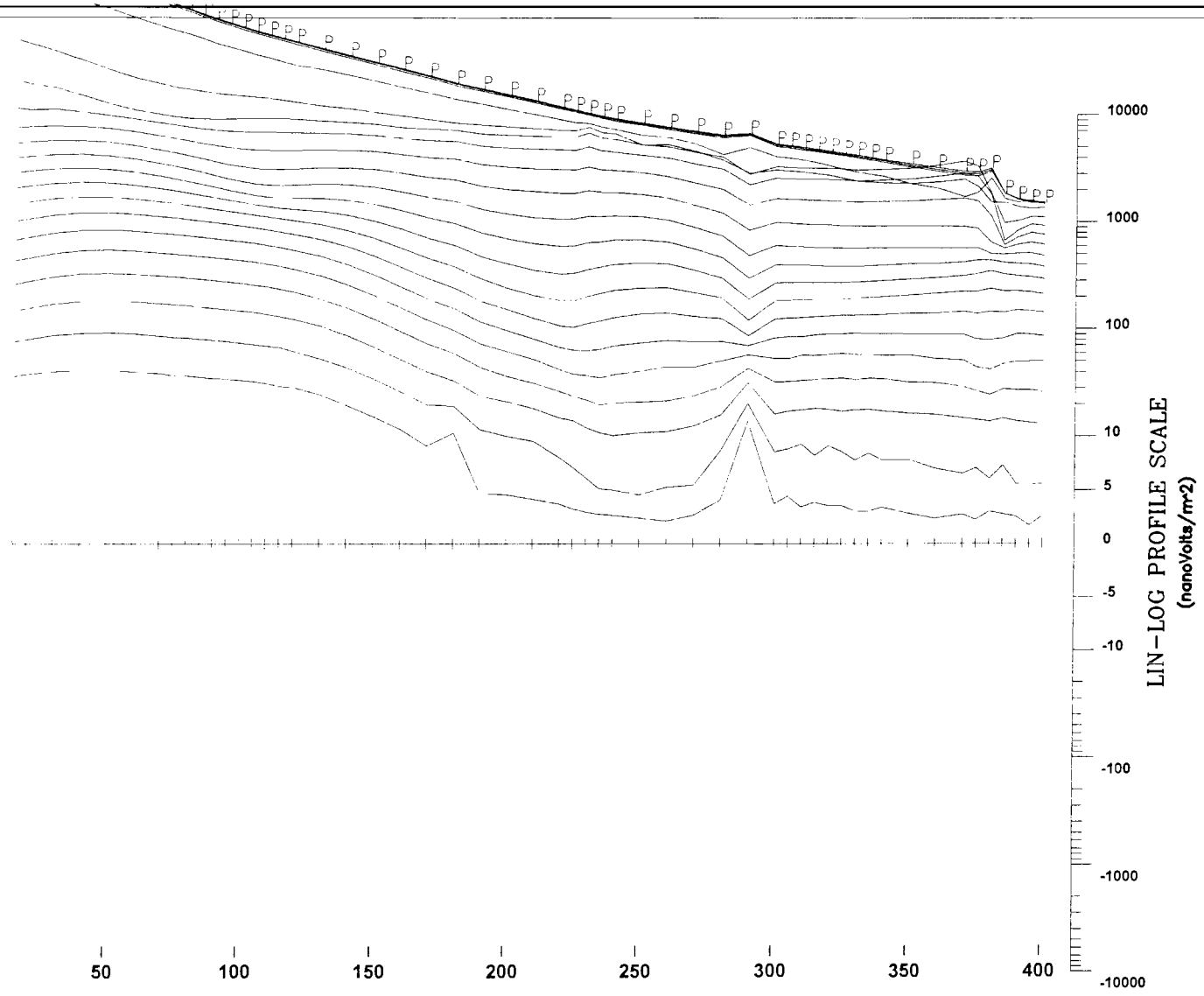
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	4.5 us, -80 us
Borehole Location:	497502E, 5349387N
Borehole Azimuth, Dip:	325, -60
Station Interval:	5-10 meters
Profile Units:	nanovolt/m^2
Receiver Coil Orientation:	Hz = positive up Hx = positive north, Hy = positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-TF-GCL07-14-C



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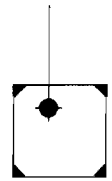


Borehole GCL07-14 - Total Field

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

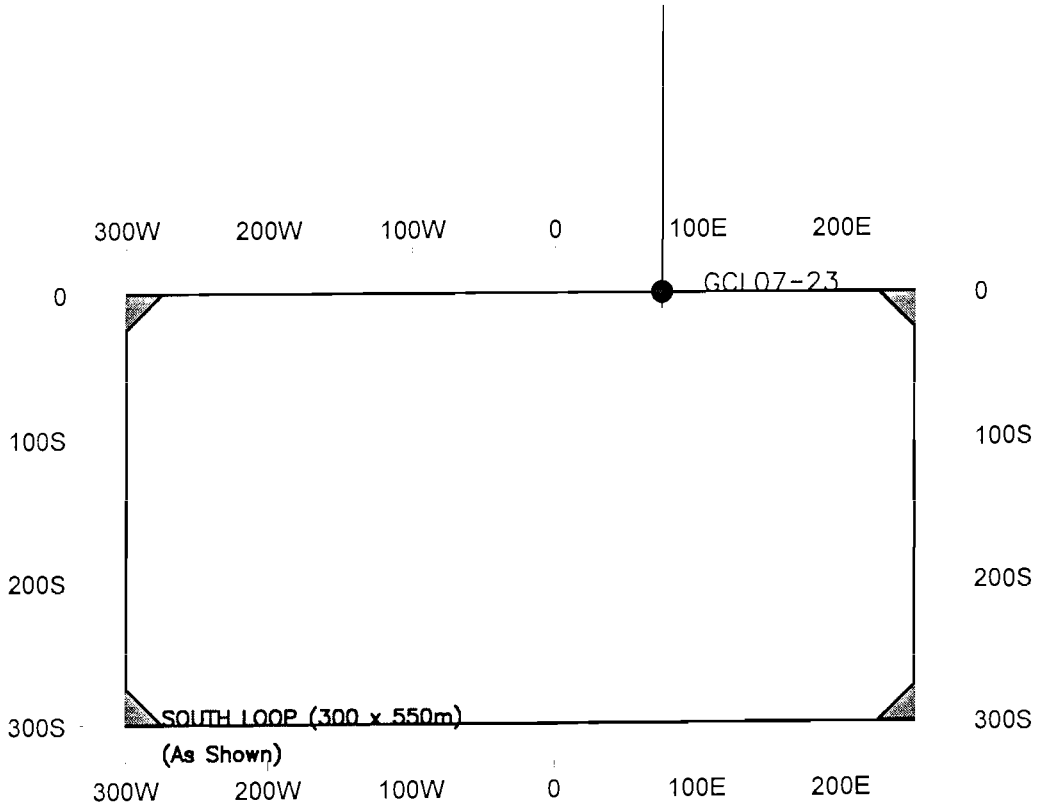
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	200m x 200m
Tx Loop Location:	0-200E;0-200N
Transmitter Current:	14 Amps
Tx Turn-Off-Time and Rx Delay:	415 us -80 us
Borehole Location:	497502E, 5349387N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	July 19, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) Geonics 3D probe + 500m cable Tx = Geonics EM-57 (1800W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-TF-Tilt-GCL07-14-C

GCL07-23 - BOREHOLE & LOOP LOCATION MAP



Scale 1:5000

50 0 50 100 150 200 250

(metres)

GOLDEN CHALICE RESOURSES
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

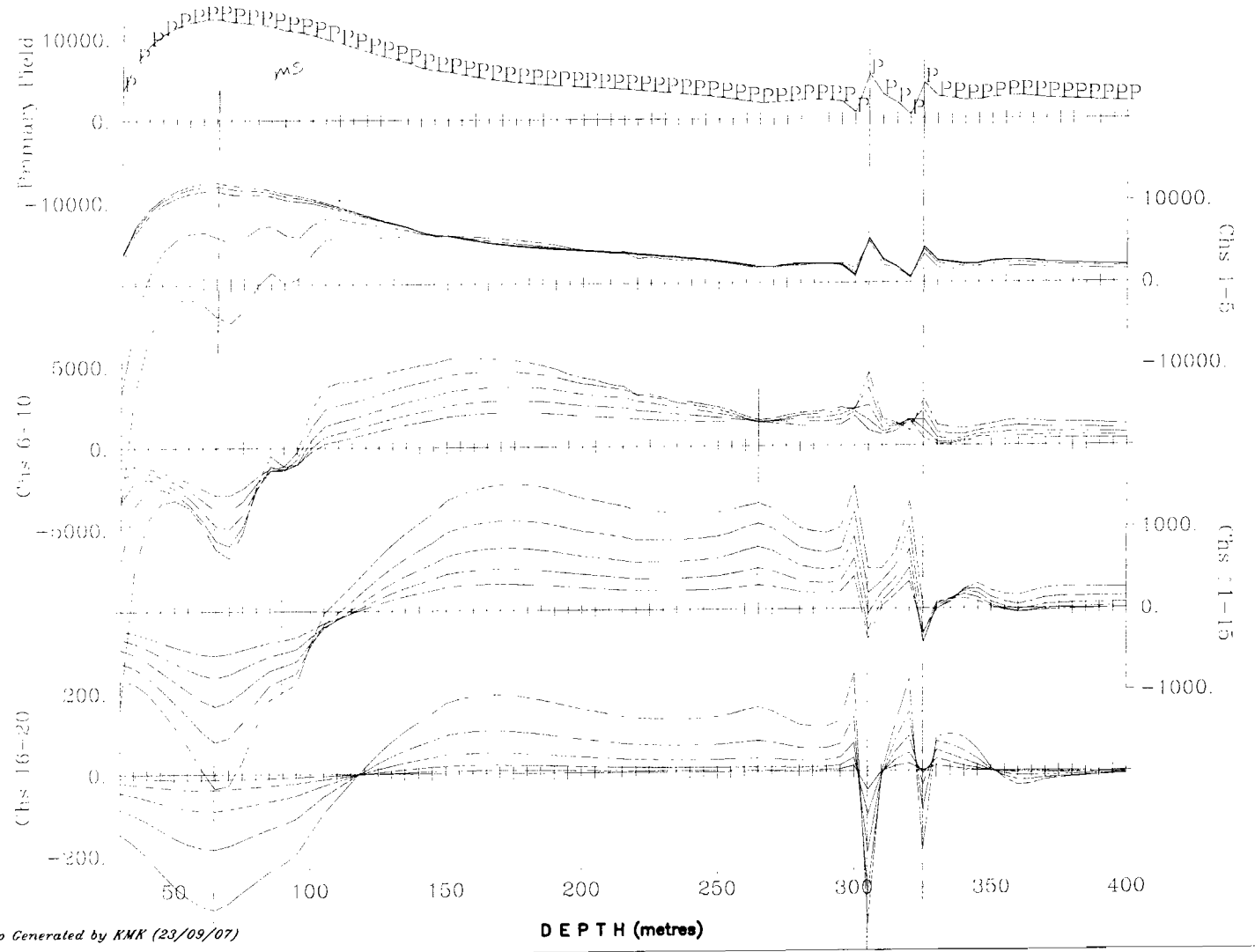
BOREHOLE & LOOP LOCATION MAP
GCL07-23

Borehole Parameters:	DDH #1 =	GCL07-23
	Location =	0+75E, 0+00
	Azimuth & Dip =	325, -45degN
	DDH #2 =	
	Location =	
	Azimuth & Dip =	
	DDH #3 =	
	Location =	
	Azimuth & Dip =	

Survey Date:	Sept.23, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m cable
	Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. #: CA00500C-BHTEM-LOOPLOC-GCL07-23

Map Generated by KMK (23/09/07)



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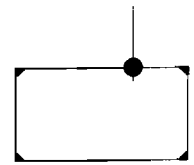


Borehole GCL07-23 - Z Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

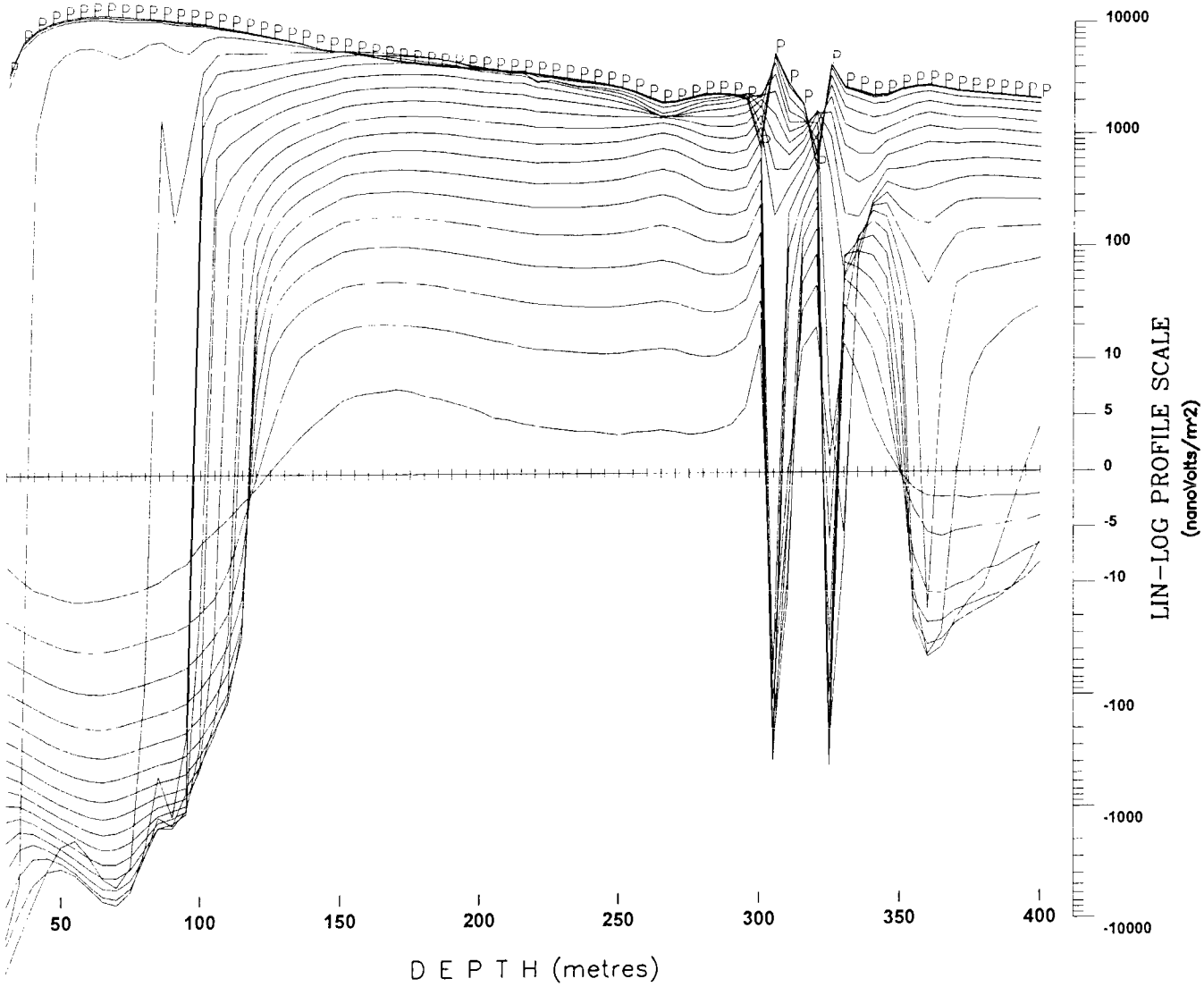
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m x 550m
Tx Loop Location:	300W-250E,300S-0
Transmitter Current:	21.5 Amps
Tx Turn-Off-Time and Rx Delay:	600 us, -80 us
Borehole Location:	75E,0N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanovolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	Sept 23, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	& Geonics 3D probe+600m cable
	Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG NO. CA00500C-BH4A-Tiltrot-Z-GCL07-23-C



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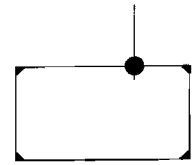


Borehole GCL07-23 - Z Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

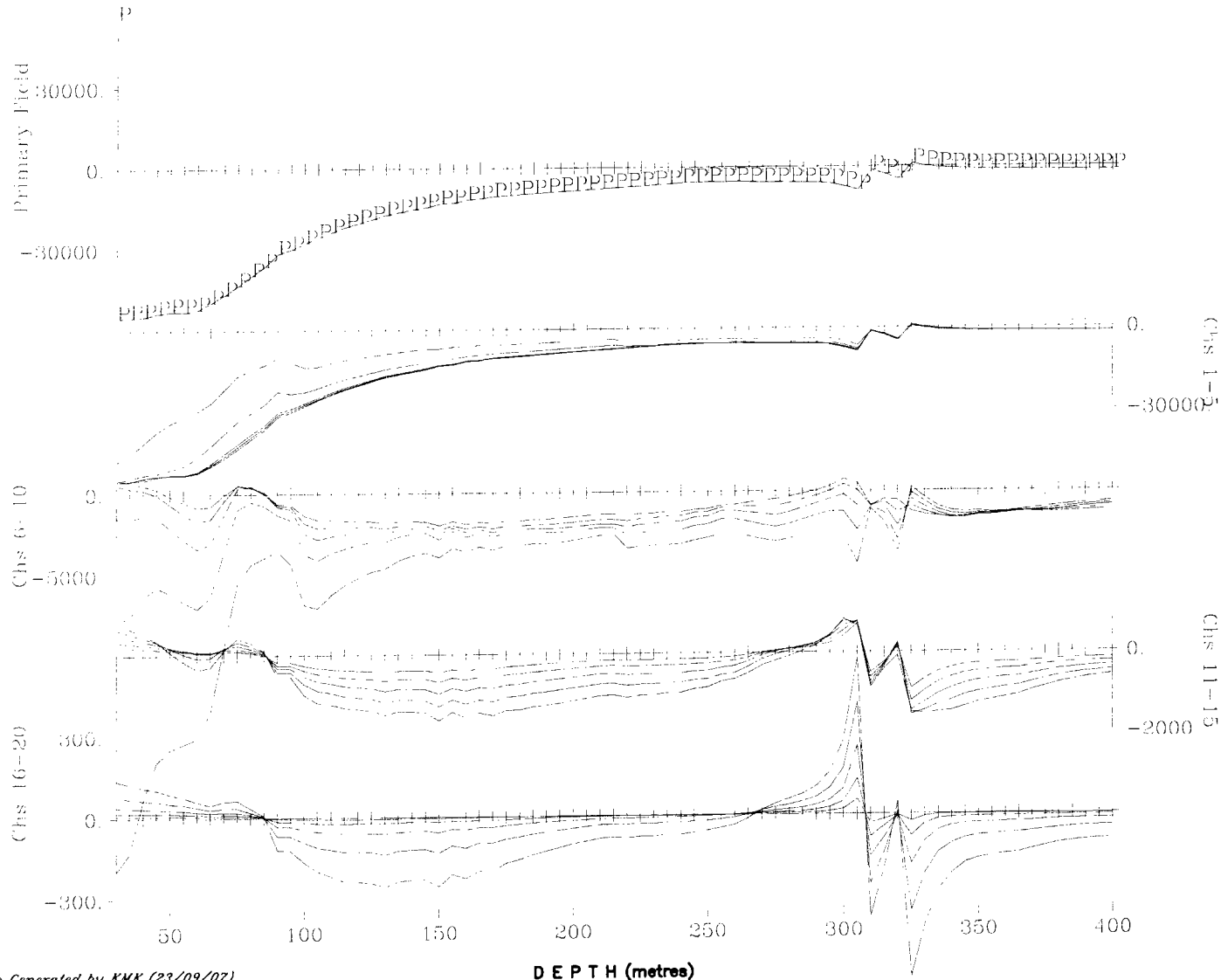
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m x 550m
Tx Loop Location:	300W-250E,300S-0
Transmitter Current:	21.5 Amps
Tx Turn-Off-Time and Rx Delay:	600 us -80 us
Borehole Location:	75E, ON
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	Sept 23, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m cable Tx = Geonics EM-57 (3600 W)

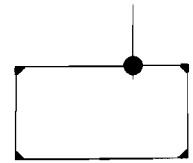
Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG NO. CA00500C-BHLL-Z-Tilt-GCL07-23-C



Map Generated by KMK (23/09/07)



Borehole GCL07-23 - X Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

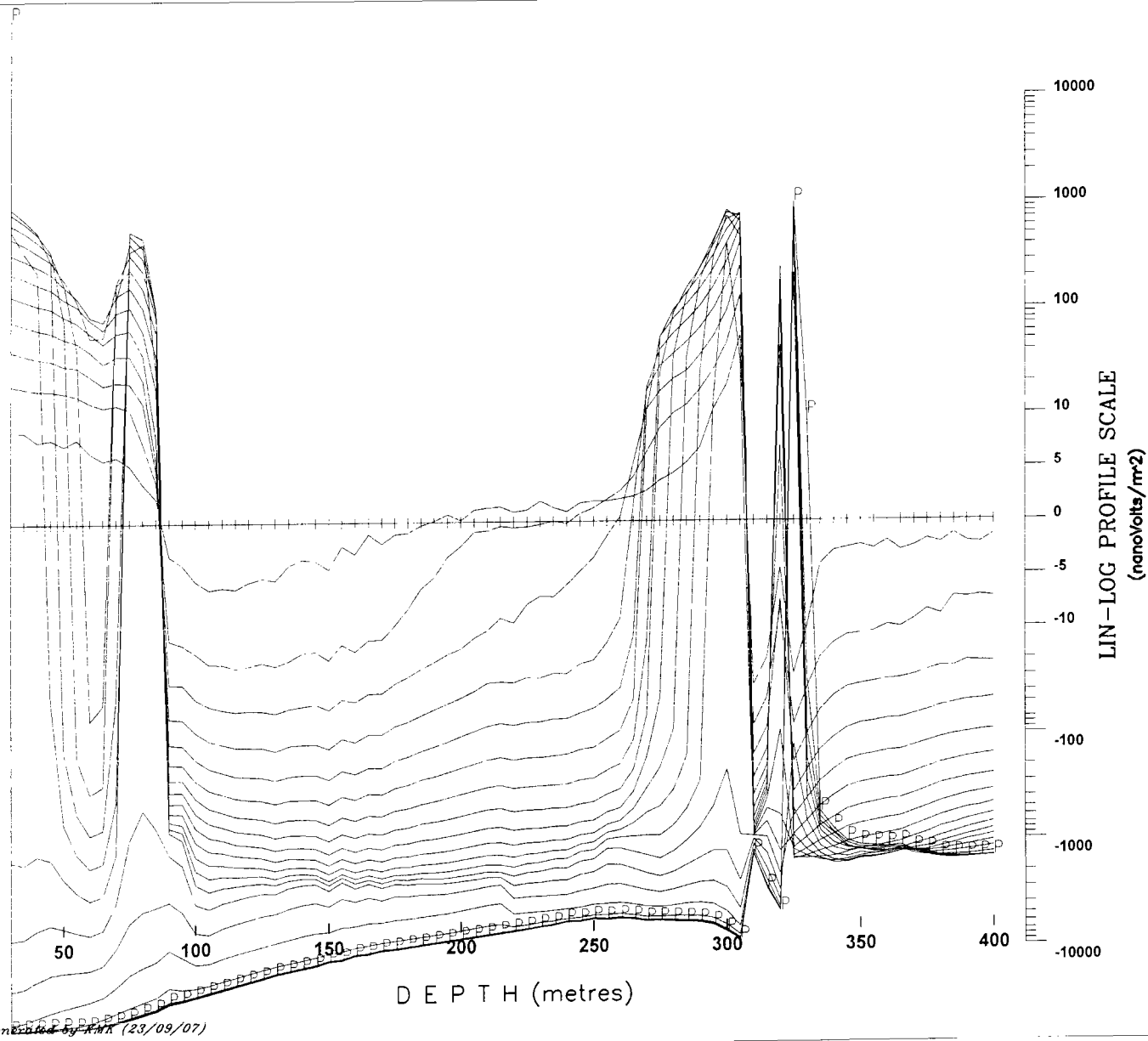
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

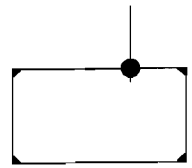
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m x 550m
Tx Loop Location:	300W-250E;300S-0
Transmitter Current	21.5 Amps
Tx Turn-Off-Time and Rx Delay:	600 us, -80 us
Borehole Location:	75E,0N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	Sept 23, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m cable Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-X-GCL07-23-C



Map Generated by AMA (23/09/07)



Borehole GCL07-23 - X Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

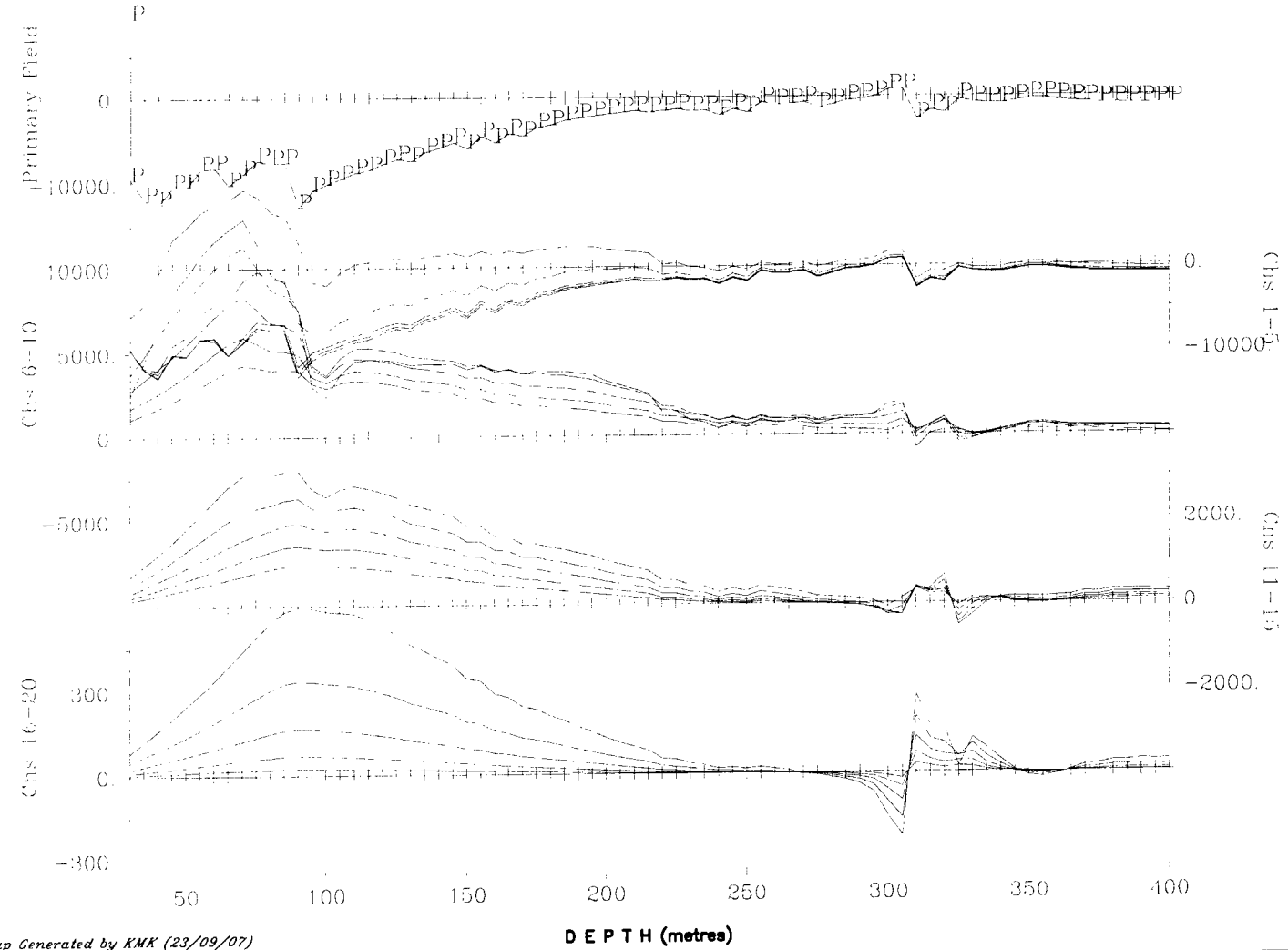
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m x 550m
Tx Loop Location:	300W-250E;300S-0
Transmitter Current:	21.5 Amps
Tx Turn-Off-Time and Rx Delay:	600 us -80 us
Borehole Location:	75E, ON
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	Sept 23, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m cable Tx = Geonics EM-57 (3600 W)

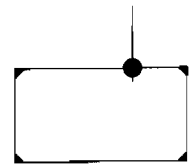
Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG NO CA00500C-BHLL-X-Tilt-GCL07-23-C



Map Generated by KMK (23/09/07)



Borehole GCL07-23 - Y Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

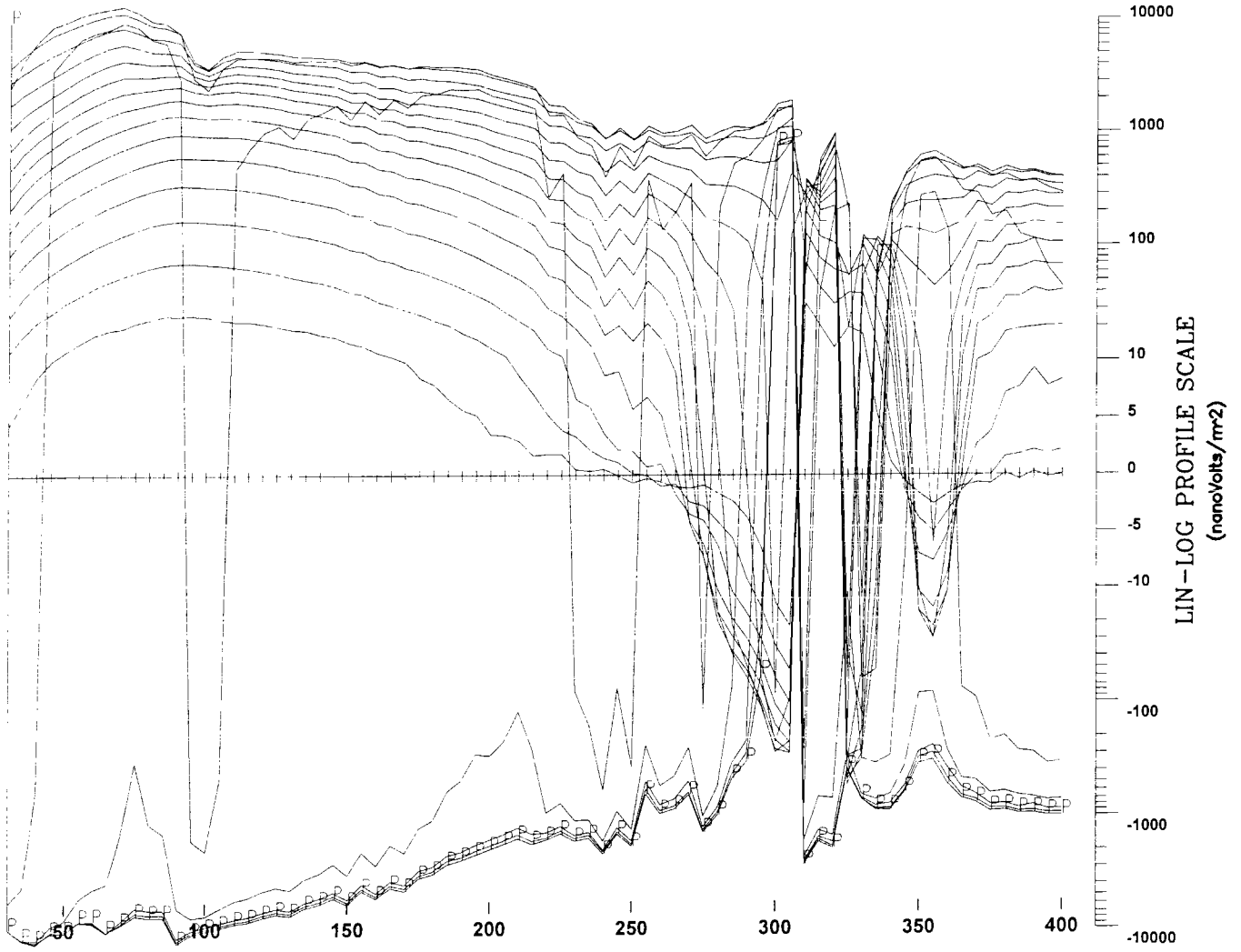
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m x 550m
Tx Loop Location:	300W-250E,300S-0
Transmitter Current:	21.5 Amps
Tx Turn-Off-Time and Rx Delay	600 us, -80 us
Borehole Location:	75E,0N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	Sept 23, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m cable Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-Y-GCL07-23-C



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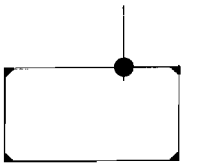


Borehole GCL07-23 - Y Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

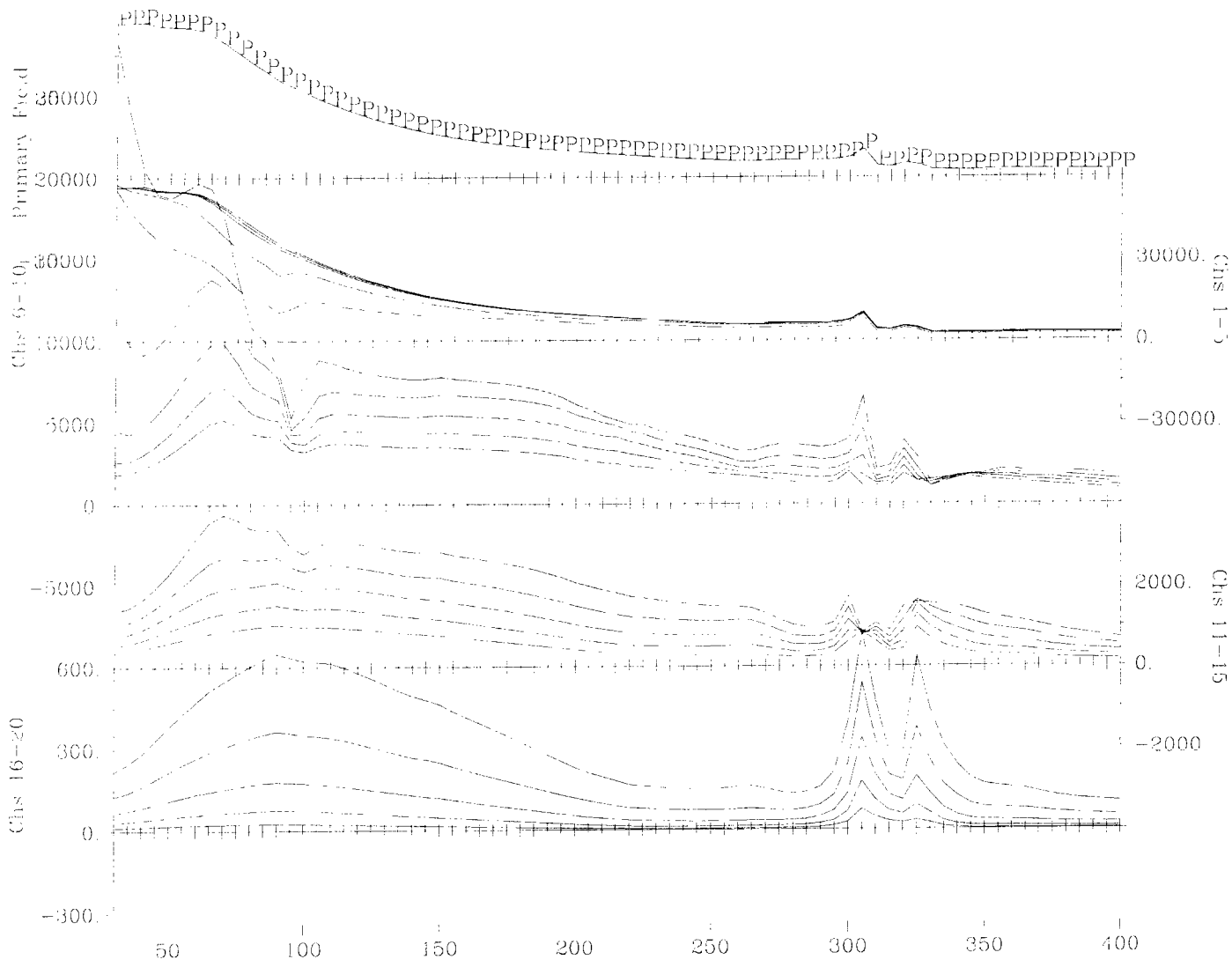
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m x 550m
Tx Loop Location	300W-250E,300S-0
Transmitter Current:	21.5 Amps
Tx Turn-Off-Time and Rx Delay:	600 us -80 us
Borehole Location:	75E, 0N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	Sept 23, 2007
Instrumentation:	Rx = Digital Protem (30 Channels)
	& Geonics 3D probe+600m cable
	Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BHLL-Y-Tilt-GCL07-23-C



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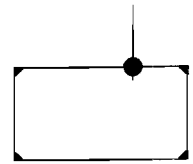


Borehole GCL07-23 – Total Field
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

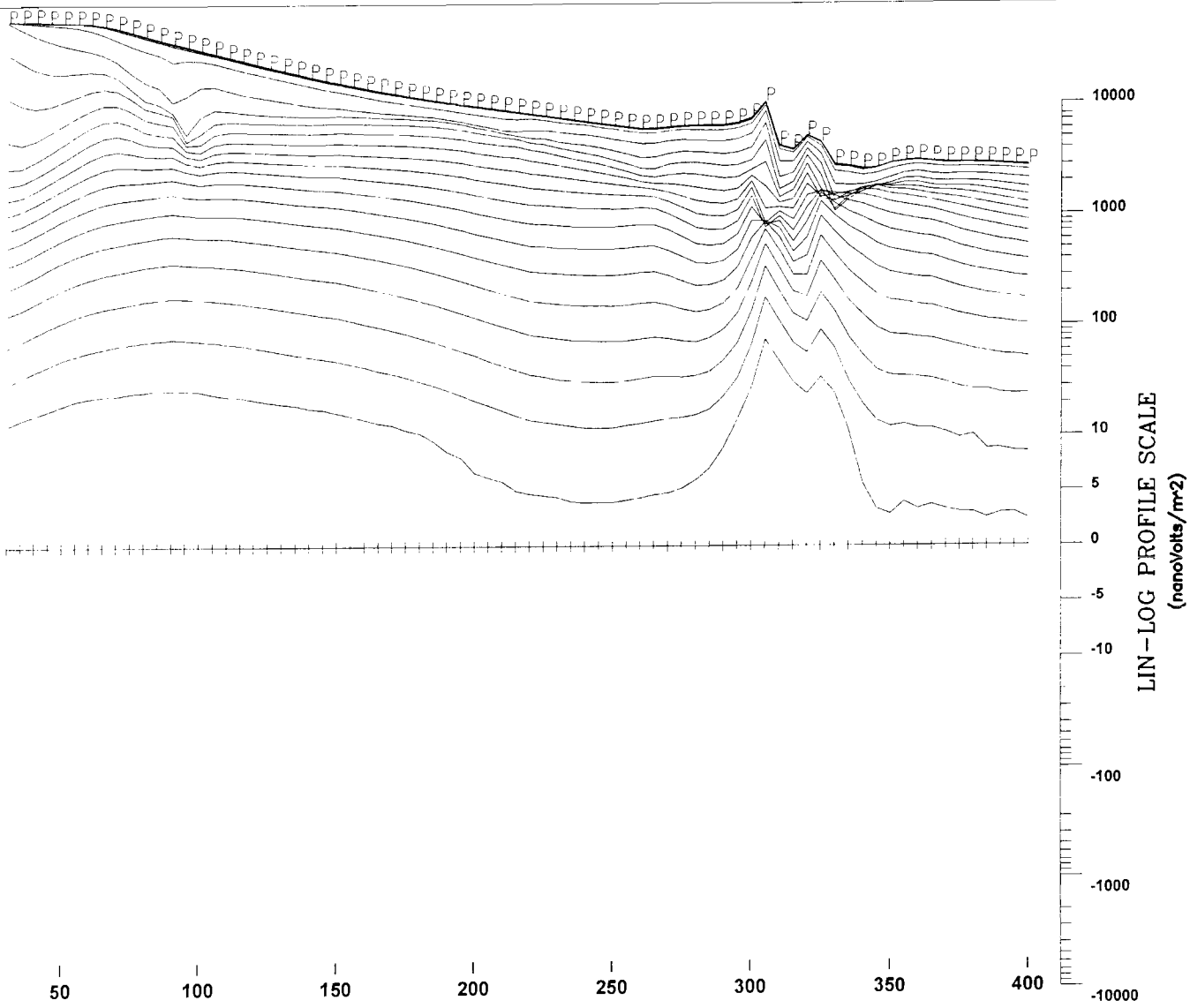
3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

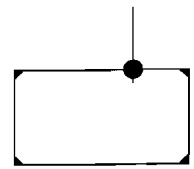
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m x 550m
Tx Loop Location:	300W-250E,300S-0
Transmitter Current:	21.5 Amps
Tx Turn-Off-Time and Rx Delay	600 us, -80 us
Borehole Location:	75E,0N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles

Survey Date:	Sept 23, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m cable Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. NO. CA00500C-BH4A-Tiltrot-TF-GCL07-23-C



Map Generated by KMK (23/09/07)



Borehole GCL07-23 - Total Field

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

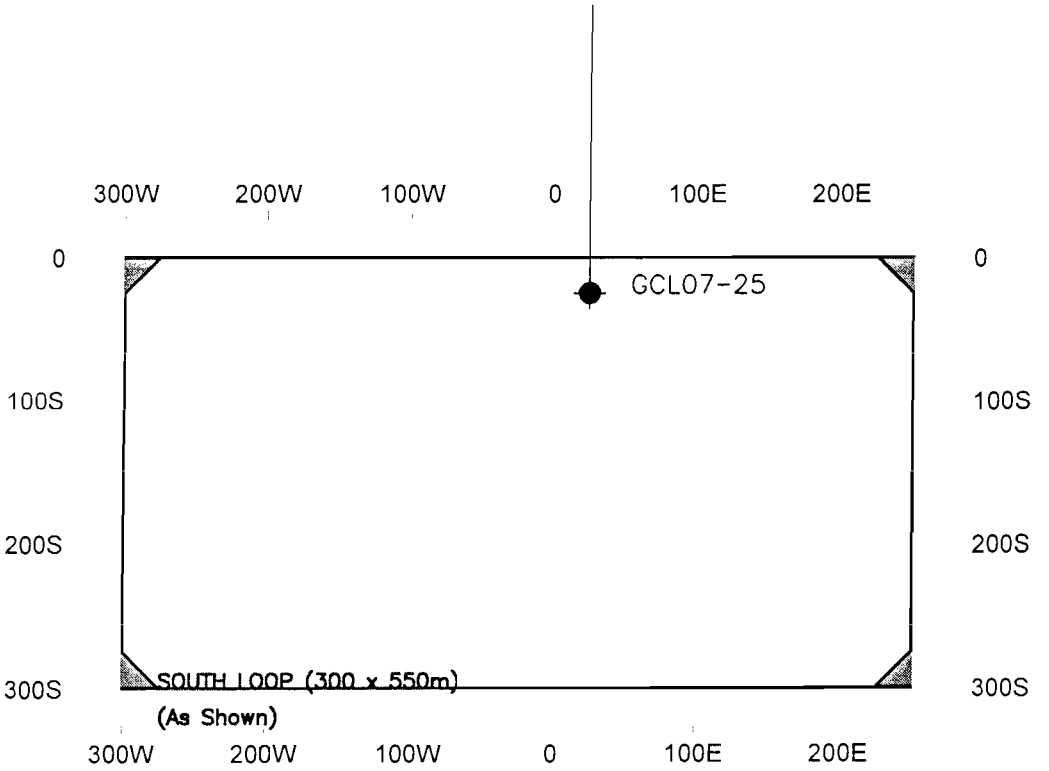
Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m x 550m
Tx Loop Location:	300W-250E;300S-0
Transmitter Current:	21.5 Amps
Tx Turn-Off-Time and Rx Delay:	600 us -80 us
Borehole Location:	75E, 0N
Borehole Azimuth, Dip:	325, -45
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	Sept 23, 2007
Instrumentation:	Rx = Digitol Protem (30 Channels) & Geonics 3D probe+600m cable Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG. NO. CA00500C-BH11-TF-Tilt-GCL07-23-C

GCL07-25 - BOREHOLE & LOOP LOCATION MAP



Scale 1:5000

50 0 50 100 150 200 250

(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

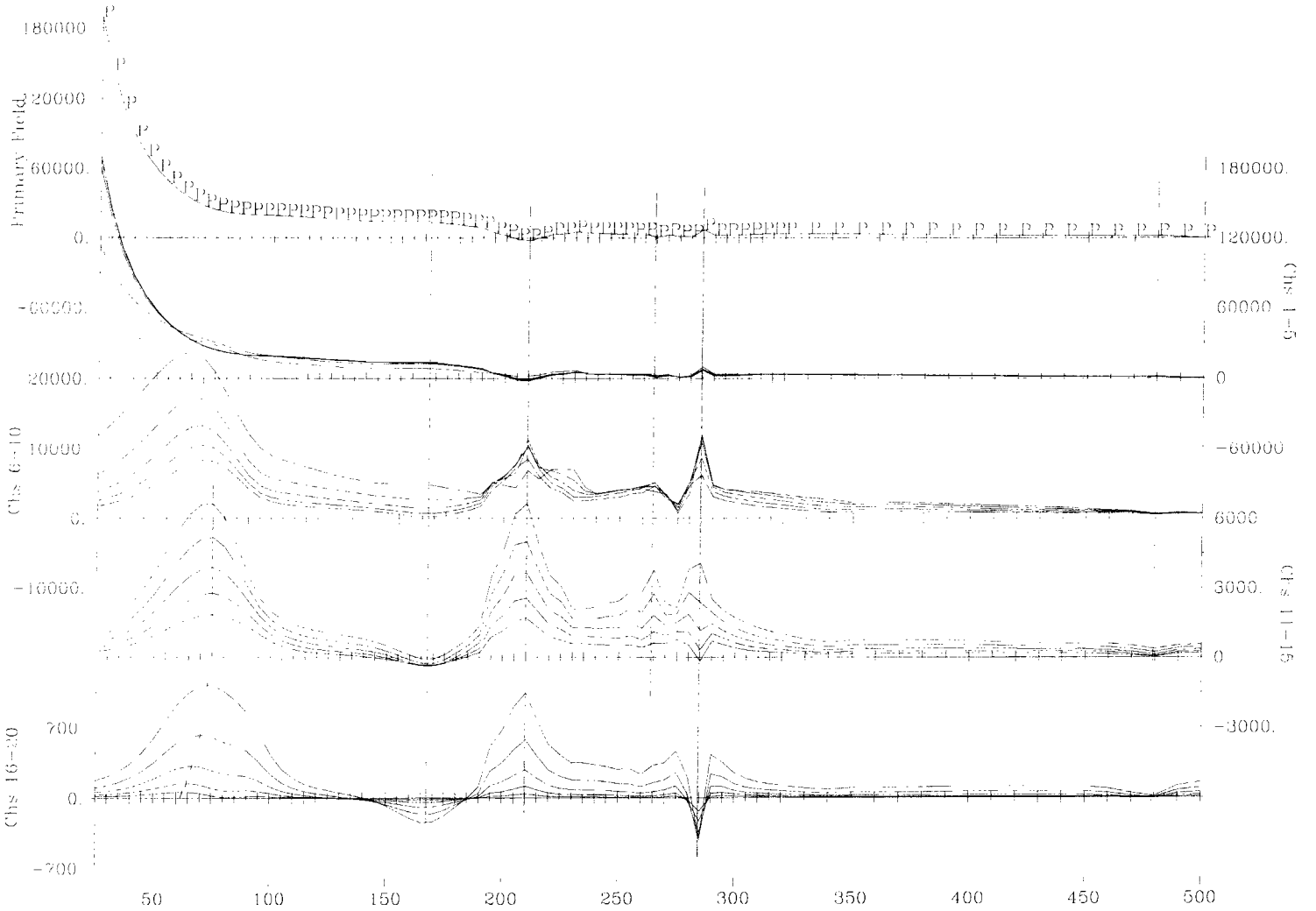
BOREHOLE & LOOP LOCATION MAP
GCL07-25

Borehole Parameters:	DDH #1 =	GCL07-25
	Location =	0+25E, 0+25S
	Azimuth & Dip =	325, -50degN
	DDH #2 =	
	Location =	
	Azimuth & Dip =	
	DDH #3 =	
	Location =	
	Azimuth & Dip =	

Survey Date:	Sept. 22, 2007
Instrumentation.	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m coble
	Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG. #: CA00500C-BHTEM-LOOPLOC-GCL07-25

Map Generated by KMK (23/09/07)



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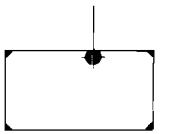


Borehole GCL07-25 - Z Component
Collar Loop

Scale 1:2000

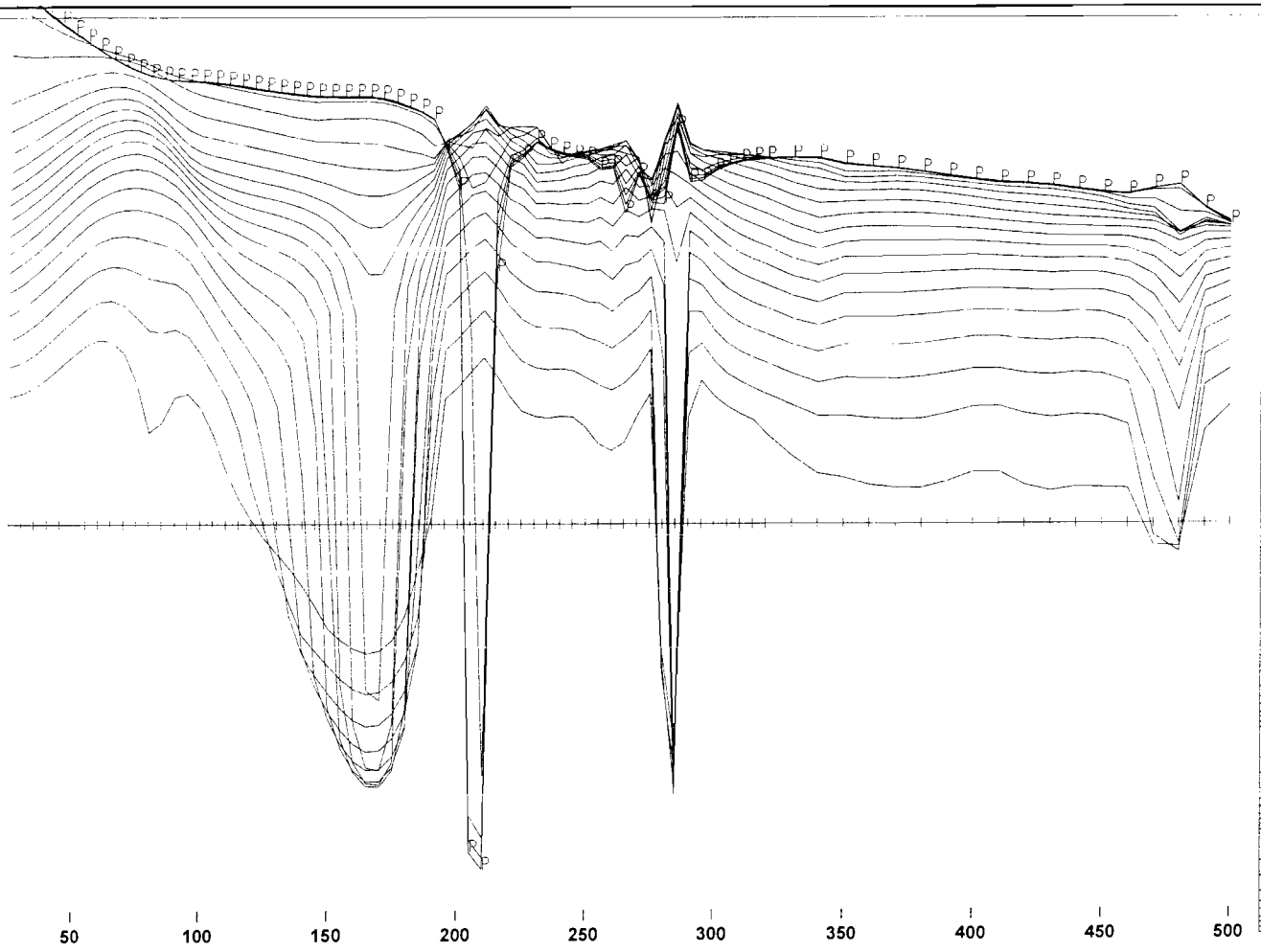
25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency	30 Hz (50% duty cycle)
Tx Loop Size	300m x 550m
Tx Loop Location	300W-250E/300N
Transmitter Current	21.5 Amps
Tx Turn-Off-Time and Rx Delay	500 us (50 us)
Borehole Location	25E/25N
Borehole Azimuth, Dip	325, -60
Station Interval	5-10 metres
Profile Units	nanovolt/(m^2
Receiver Coil Orientation	Hz = positive up Hx = positive north, Hy = positive west
Cross Component Rotation	using Tilt Meter Angles
Survey Date	Sept 23 - 2007
Instrumentation	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m cable Tx = Geonics EM 57 (3600 W)

Surveyed & Processed by
QUANTEC GEOSCIENCE LTD.
DWG NO CA00500C-BH4A-Tiltrot-Z-GCL07-25-C



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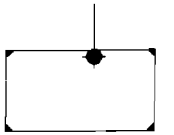


Borehole GCL07-25 - Z Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

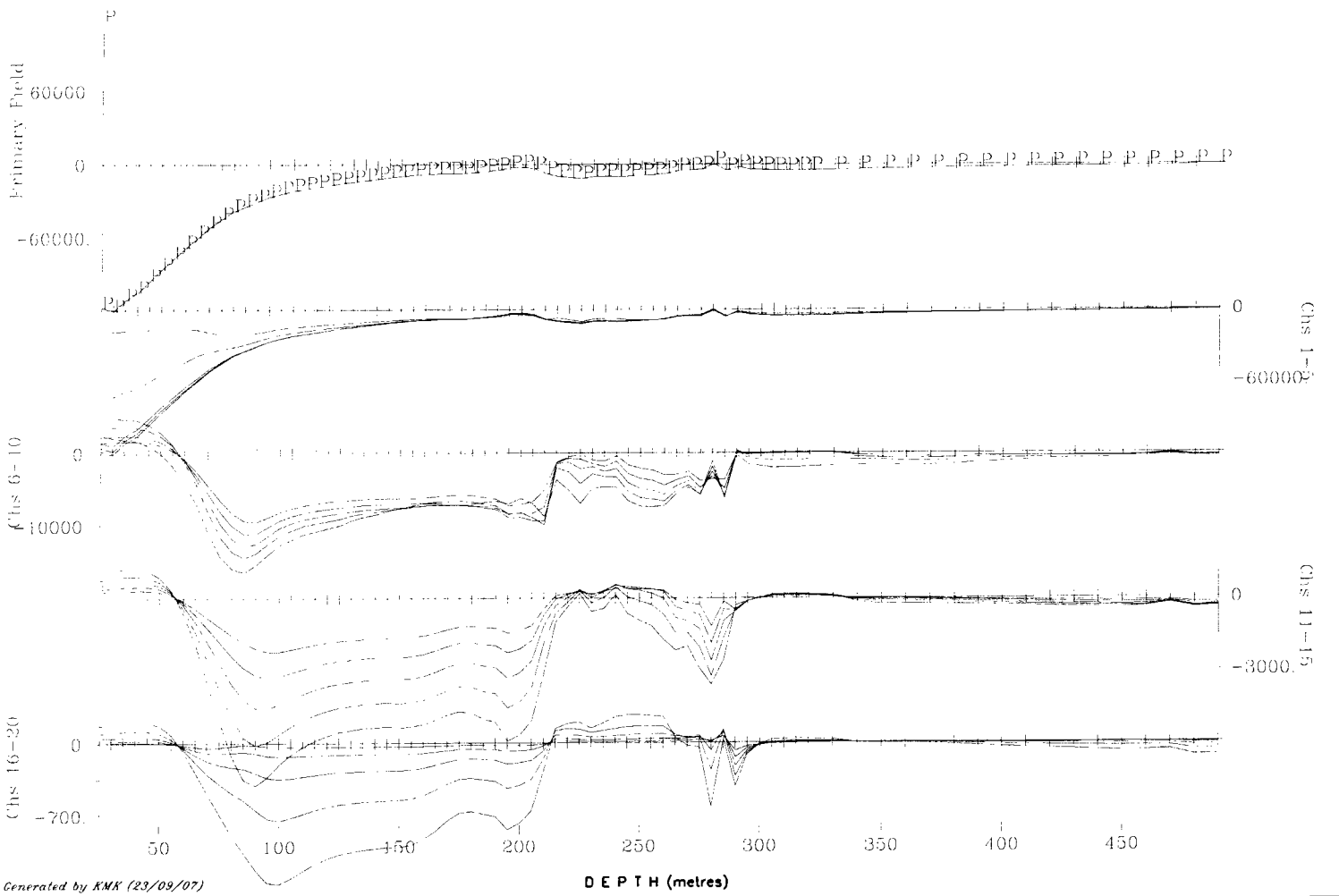
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	300m x 550m
Tx Loop Location:	300W-250E,300S-0
Transmitter Current:	5-6 Amps
Tx Turn-Off-Time and Rx Delay:	600 us, -80 us
Borehole Location:	25E, 25S
Borehole Azimuth, Dip:	325, -50
Station Interval:	5-10 meters
Profile Units:	nanoVolts/m^2
Receiver Coil Orientation:	Hz = positive up Hx = positive north, Hy = positive west
Cross Component Rotation:	using Tilt Meter Angles
Survey Date:	Sept 23, 2007
Instrumentation:	Rx = Digital Protem (10 Channels) & Geonics 3D probe+600m cable Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by

QUANTEC GEOSCIENCE LTD.

DWG NO: CA005000-BH-L-2-Tilt-GCL07-25.dwg



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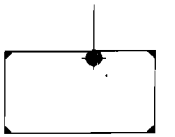


Borehole GCL07-25 - X Component
Collar Loop

Scale 1:2000

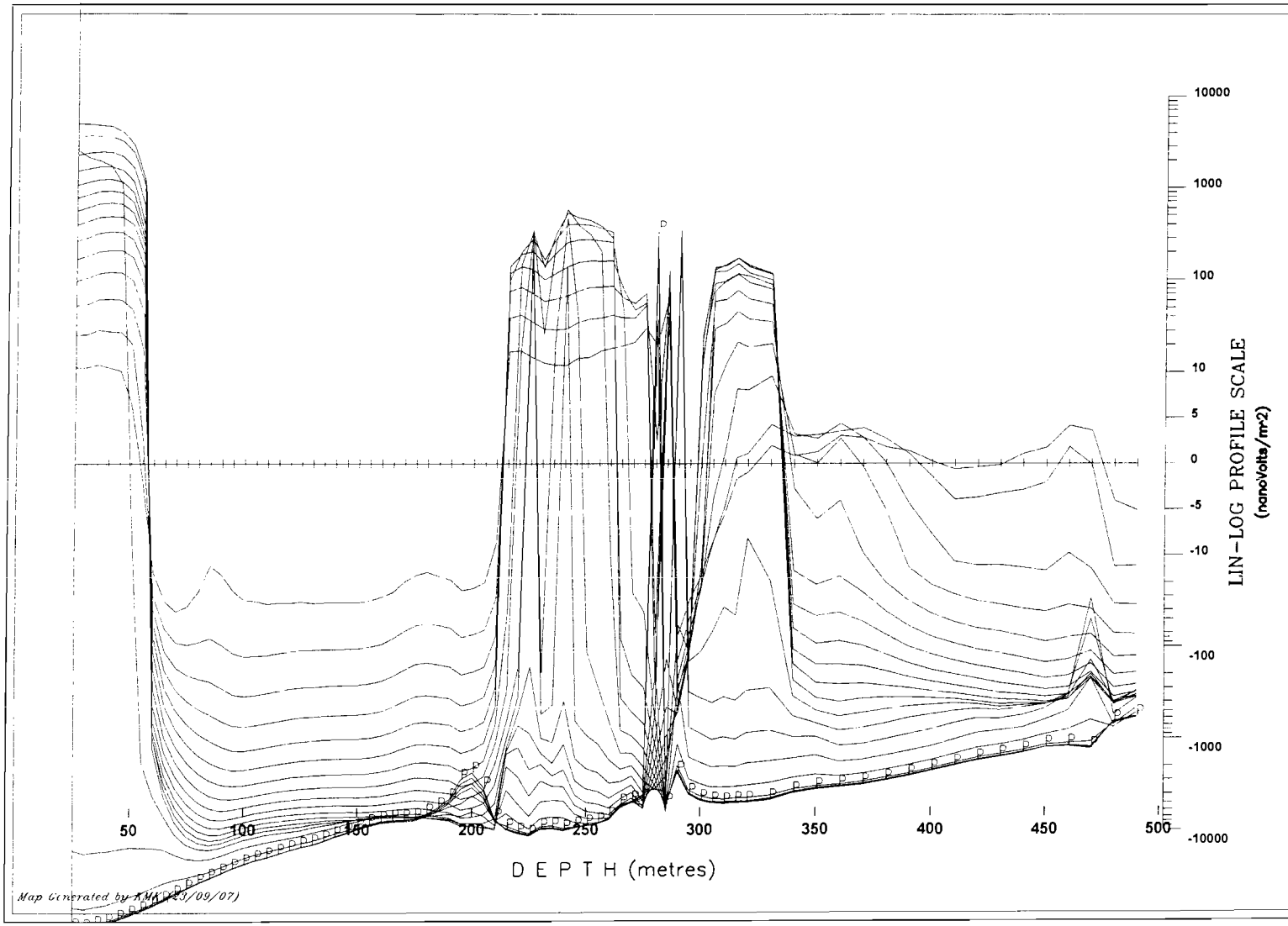
25 0 25 50 75
(metres)

GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency	30 Hz (50% duty cycle)
Tx Loop Size	200m x 550m
Tx Loop Location	[illegible]
Transmitter Current	[illegible] amps
Tx Turn-Off-Time and Rx Delay	[illegible]
Borehole Location	[illegible]
Borehole Azimuth, Dip	[illegible]
Station Interval	5-10 meters
Profile Units	nanoVolts/m^2
Receiver Coil Orientation	[illegible]
	Hx = positive north, Hy = positive west
Cross Component Rotation	* using Tilt Meter Angles
Survey Date	Sept 23, 2007
Instrumentation	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m cable
	Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG NO. CA005006-BH4A-Tiltrot-X-GCL07-25-C



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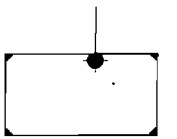


Borehole GCL07-25 - X Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

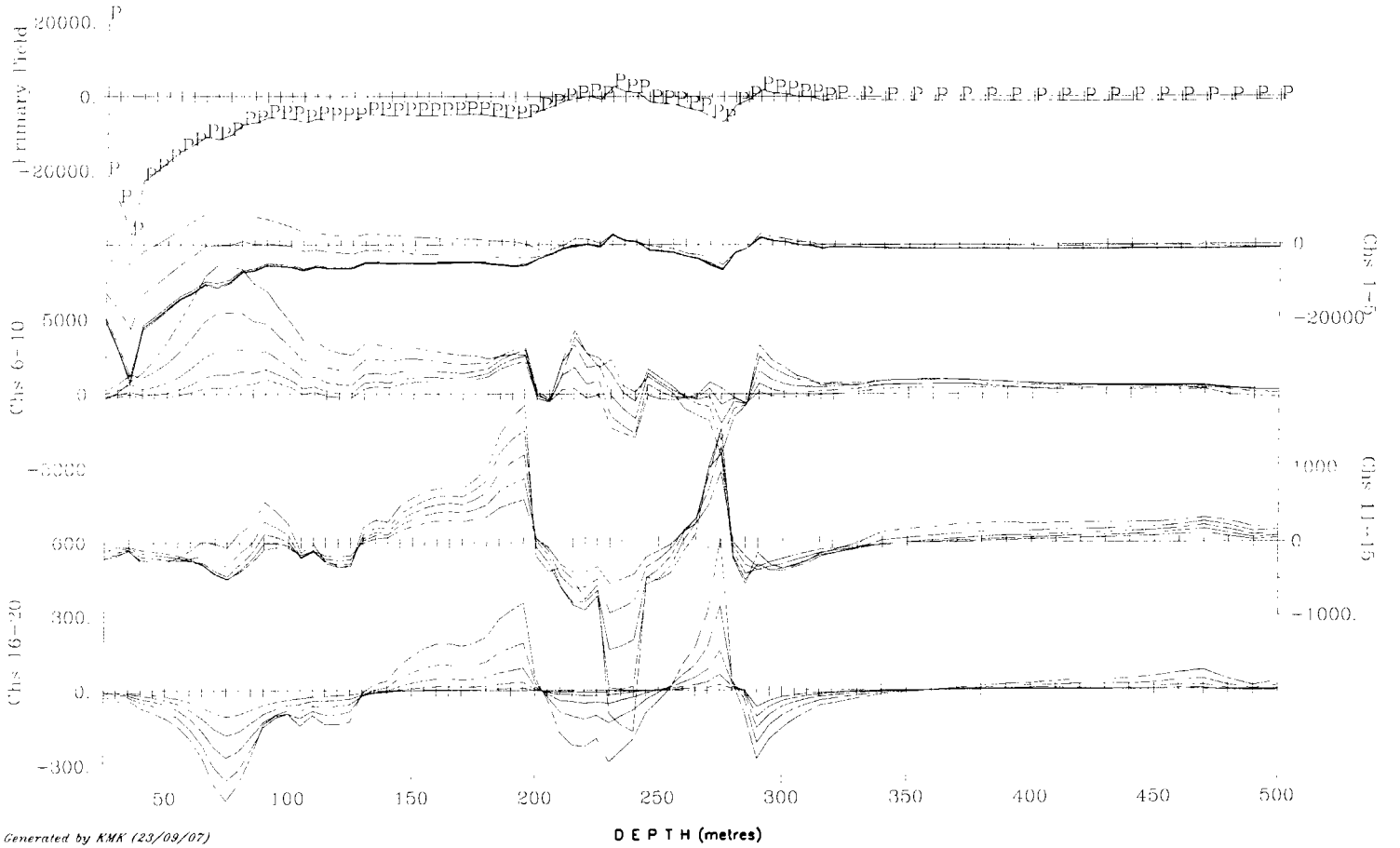
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency	30 Hz (50% duty cycle)
Tx Loop Size	300m x 550m
Tx Loop Location	500W-250E,3005mN
Transmitter Current	24.5 Amps
Tx Turn-Off-Time and Rx Delay	830 us, -80 us
Borehole Location:	25E, 250
Borehole Azimuth, Dip	325, -50
Station Interval	5-10 meters
Profile Units	nanovolts/m^2
Receiver Coil Orientation:	Hz = positive up Hx = positive north, Hy = positive west
Cross Component Rotation	using Tilt Meter Angles
Survey Date:	Sept. 23, 2007
Instrumentation:	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m cable Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:

QUANTEC GEOSCIENCE LTD.

DWG NO CA005306-BHL-X-TIM-GCL07-25-C



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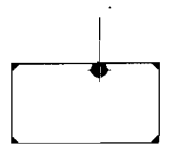


Borehole GCL07-25 - Y Component
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

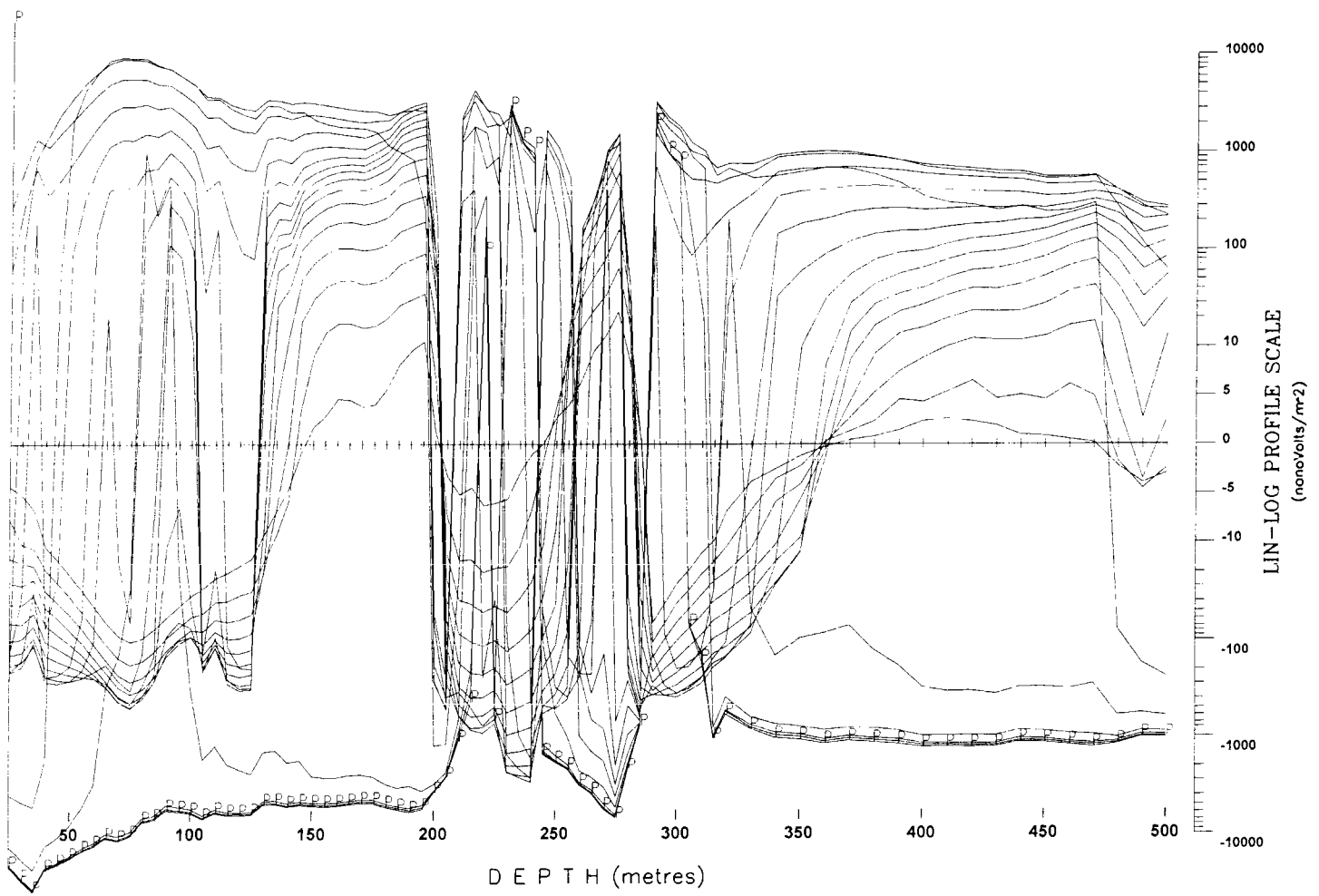
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency	30 Hz, 50% duty cycle
Tx Loop Size	350m x 350m
Tx Loop Location	300W-250E,300S-N
Transmitter Current	21.5 amps
Tx Turn-Off-Time and Rx Delay	600 us, -45 us
Borehole Location	25E,0mN
Borehole Azimuth, Dip	325°, -75°
Station Interval	5x10 meters
Profile Units	nanovolt/m2
Receiver Coil Orientation	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation	as per Right Hand Rule Angles
Survey Date	Sept 23, 2007
Instrumentation	Rx = Digital Protem (32 Channels)
	& Geonics 3D probe+600m cable
	Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG NO. CAN05000-BH4A-Tilt-Y-COLLAR



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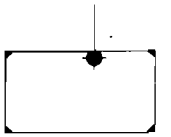


Borehole GCL07-25 - Y Component

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

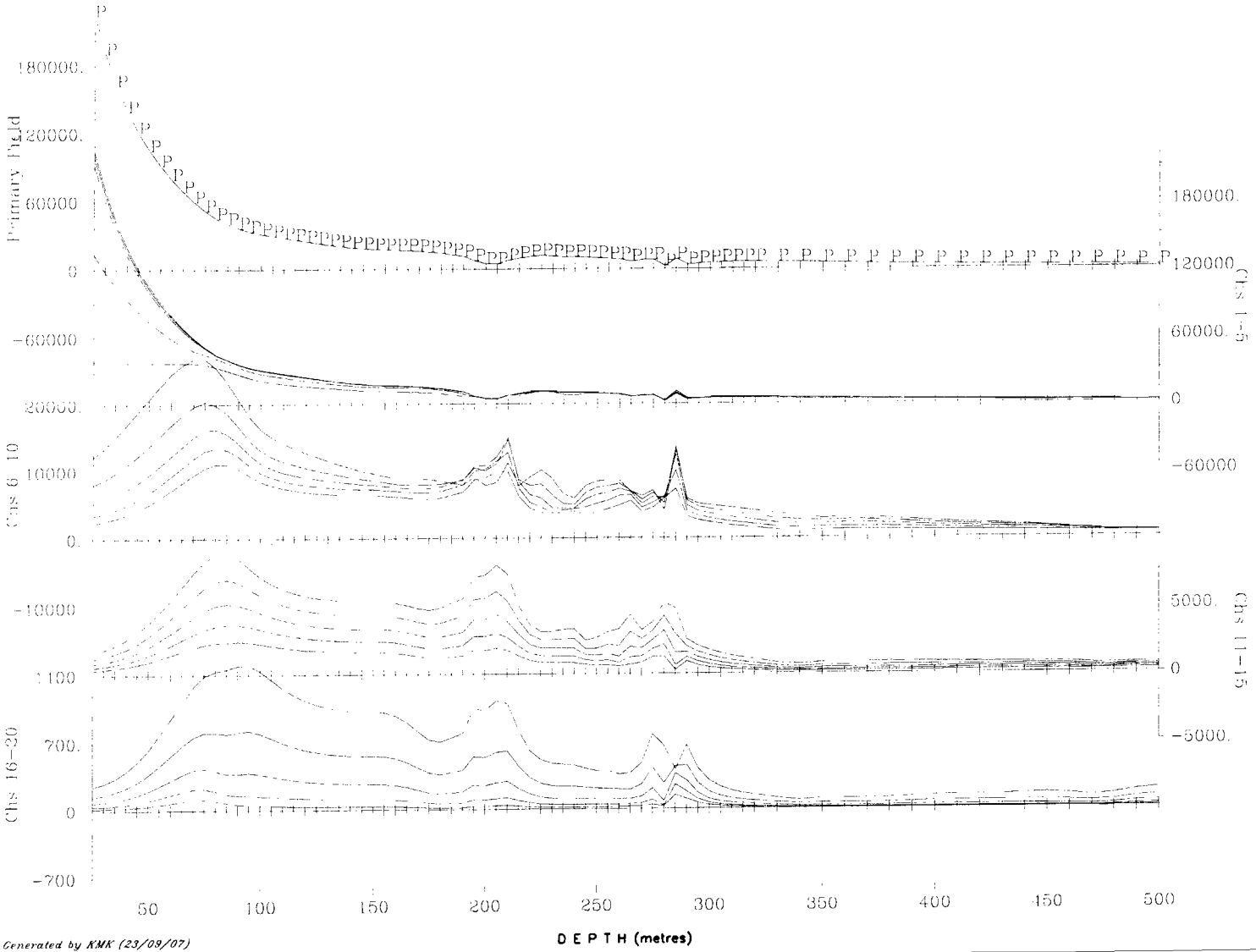
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency	30 Hz, 50% duty cycle
Tx Loop Size	300m x 550m
Tx Loop Location	300W-250E;300N-1
Transmitter Current	21.6 Amps
Tx Turn-Off-Time and Rx Delay	0.50 us, -80 us
Borehole Location	25E, 25S
Borehole Azimuth, Dip	325, -50
Station Interval	5-10 meters
Profile Units	nanoVolts/m^2
Receiver Coil Orientation	Hz = positive up Hx = positive north, Hy = positive west
Cross Component Rotation	using Tilt Meter Angles
Survey Date	Sept 23, 2007
Instrumentation	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m cable Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by

QUANTEC GEOSCIENCE LTD.

DWG NO CAD0500-EMLL-TIM-GCL07-25-Y



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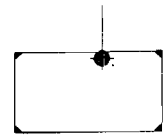


Borehole GCL07-25 - Total Field
Collar Loop

Scale 1:2000

25 0 25 50 75
(metres)

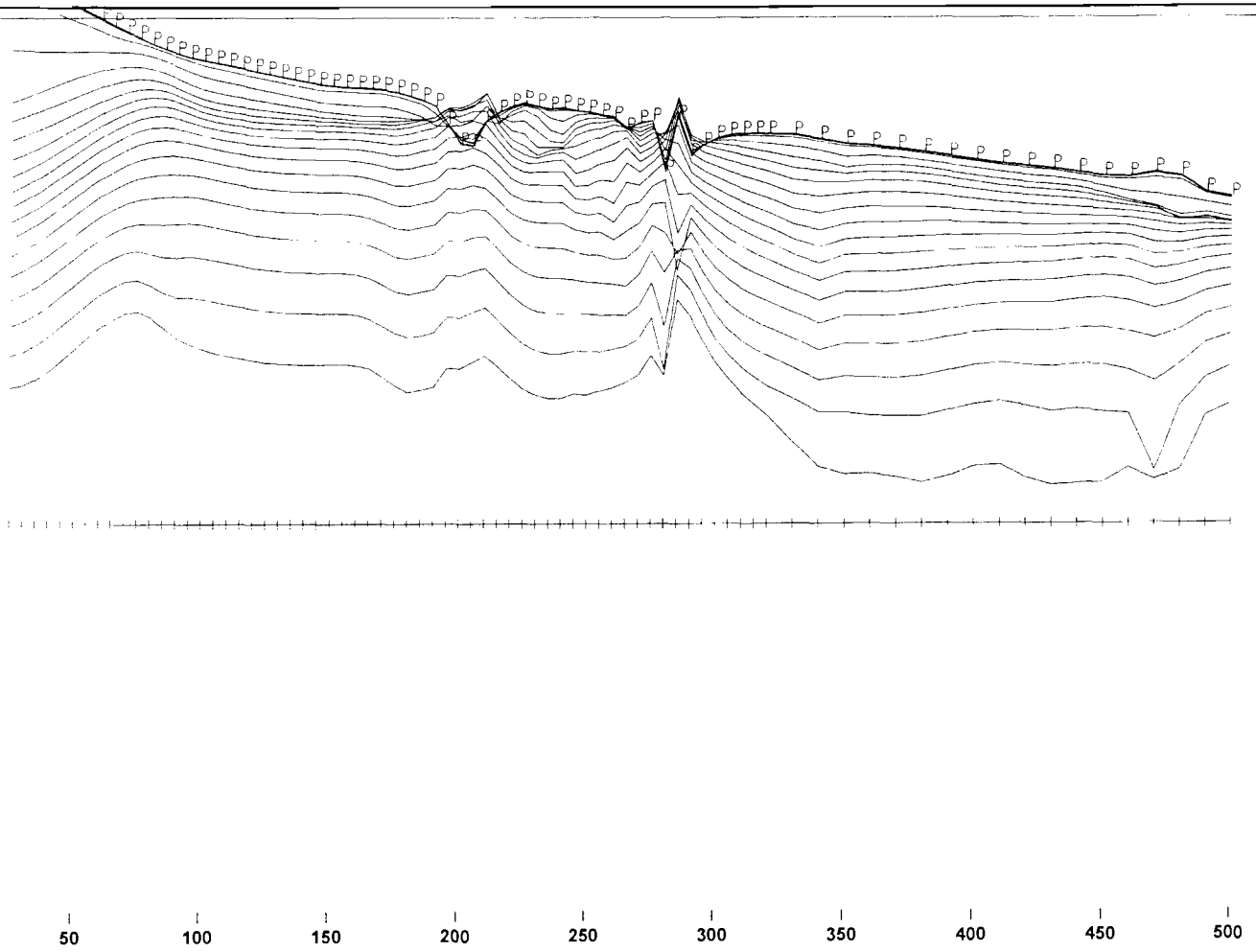
GOLDEN CHALICE RESOURCES INC.
LANGMUIR PROPERTY
TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

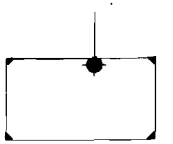
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency	30 Hz (50% duty cycle)
Tx Loop Size	300m x 150m
Tx Loop Location:	300W-250E,300S-N
Transmitter Current:	21.5 Amps
Tx Turn-Off-Time and Rx Delay	500 us, -80 us
Borehole Location:	25E,25S
Borehole Azimuth, Dip	325, -60
Station Interval:	5-10 meters
Profile Units:	nanoVolt/m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive north, Hy - positive west
Cross Component Rotation	using Tilt Meter Angles
Survey Date	Sept 23, 2007
Instrumentation	Rx = Digital Protem (30 Channels) & Geonics 3D probe+600m cable Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by:
QUANTEC GEOSCIENCE LTD.
DWG NO. CA00500C-BH4A-Tiltrot-TF-GCL07 25-0



Map Generated by KMK (23/09/07)



Borehole GCL07-25 - Total Field

Collar Loop

Scale 1:2000

25 0 25 50 75

(metres)

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY

TIMMINS, ON

3D FIXED-LOOP BOREHOLE TEM SURVEY

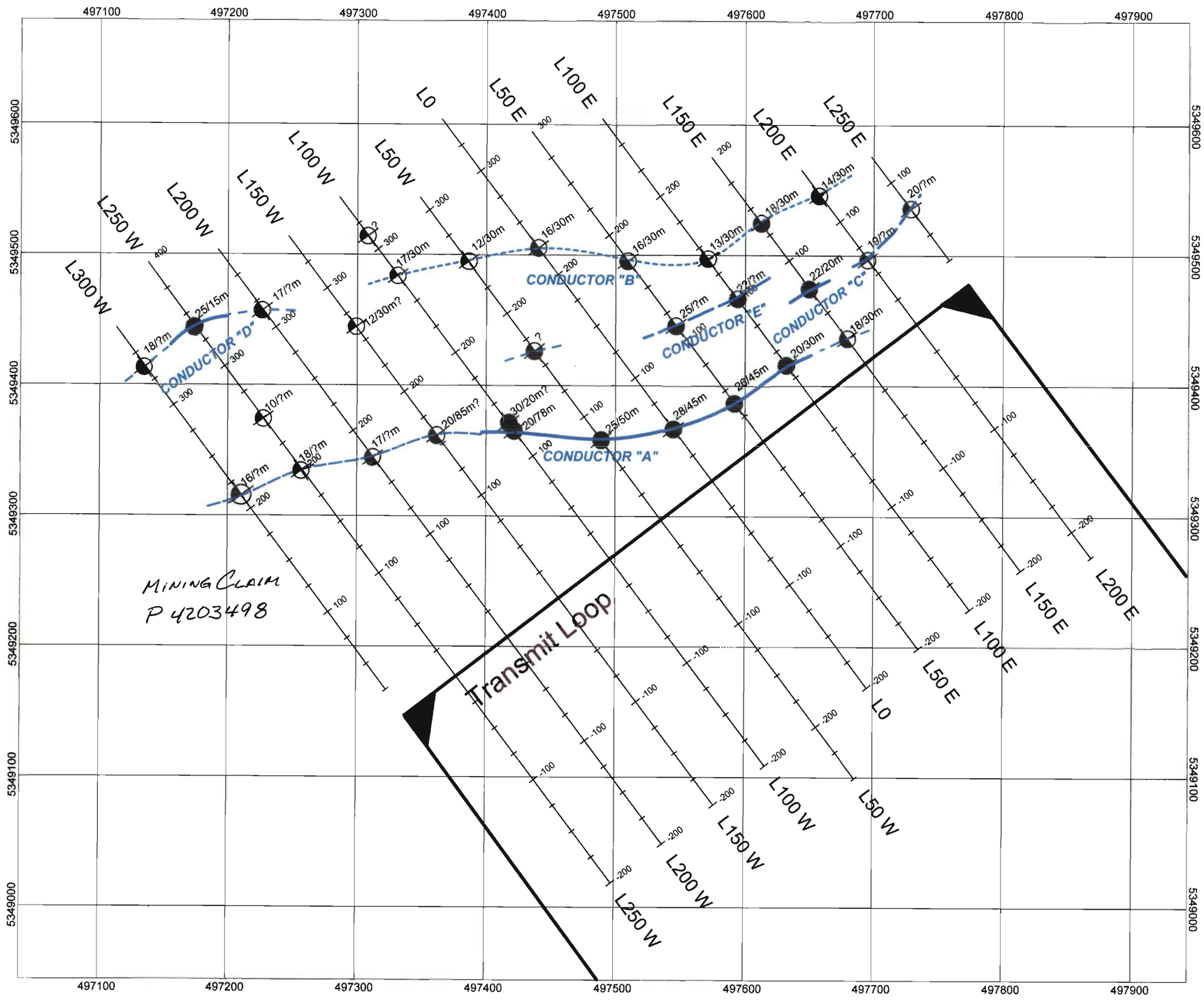
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency	30 Hz (50% duty cycle)
Tx Loop Size	300m x 550m
Tx Loop Location	300W-250E,300S
Transmitter Current	21.5 Amps
Tx Turn-Off Time and Rx Delay	400 us, -50 us
Borehole Location	25E, 25S
Borehole Azimuth, Dip	325, -50
Station Interval	5-10 meters
Profile Units	nanovolt/m2
Receiver Coil Orientation	Hz - positive up
	Hx - positive north, Hy - positive west
Cross Component Rotation	using Tilt Meter Angles
Survey Date:	Sept 23, 2007
Instrumentation:	Rx = Digitor Protem (3C Channels)
	& Geonics 3D probe+600m cable
	Tx = Geonics EM-57 (3600 W)

Surveyed & Processed by

QUANTEC GEOSCIENCE LTD.

DWG. NO. GA005005-BHLL-TF-Tilt GCL07-25-1



LEGEND

- VERY STRONG CONDUCTOR
- STRONG CONDUCTOR
- MODERATE CONDUCTOR
- WEAK CONDUCTOR
- QUESTIONABLE CONDUCTOR
- Number of Anomalous Channels Responding/ Estimated Target Depth

Interpretation by: Quantec Geoscience - Woody Coulson (10/07)

Scale 1:2500

50 0 50 100 150

(meters)

NAD83 / UTM zone 17N

GOLDEN CHALICE RESOURCES INC.

LANGMUIR PROPERTY, TIMMINS, ON
SURFACE TRANSIENT ELECTROMAGNETIC SURVEY
INTERPRETATION PLAN MAP

Survey Period: September 2007
Interpreted by: Woody Coulson
Map #: CA00500C-TEM-INTERP

Surveyed by: QUANTEC GEOSCIENCE LTD.