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Quantec Geoscience Inc.

Geophysical Survey
Summary Interpretation Report

Quantec

2.29344

Regarding the FIXED LOOP TRANSIENT ELECTROMAGNETIC SURVEY
over the
LOVELAND (70-535) PROJECT,
on behalf of
WOODRUFF CAPITAL MANAGEMENT INC.,
Rouyn-Noranda, QC

QGI QGI QGI QGI QGI QGI QGI

ST Coulson
October 2004
Project QG-345

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1. INTRODUCTION

- **QGI Project No:** QG-345
- **Project Name:** Loveland (70-535) Project
- **Survey Period:** September 23rd to 30th, 2004
- **Survey Type:** Fixed In-Loop and Off-Loop Transient EM
- **Client:** **WOODRUFF CAPITAL MANAGEMENT INC..**
- **Client Address** 1300 Saguenay, Suite 200
  Rouyn-Noranda, QC
  J9X 7C3
  Canada
- **Representatives:** Gerald Riverin
- **Objectives:**

  To provide detailed information with respect to the location and characteristics of conductors related to potential massive sulphide mineralization.
- **Report Type:** Summary Interpretation

2. GENERAL SURVEY DETAILS

2.1 LOCATION

- **Townships:** Loveland
- **Province:** Ontario
- **Country:** Canada
- **Nearest Settlement:** Timmins, ON
- **NTS Map Reference #:** 42 A/12

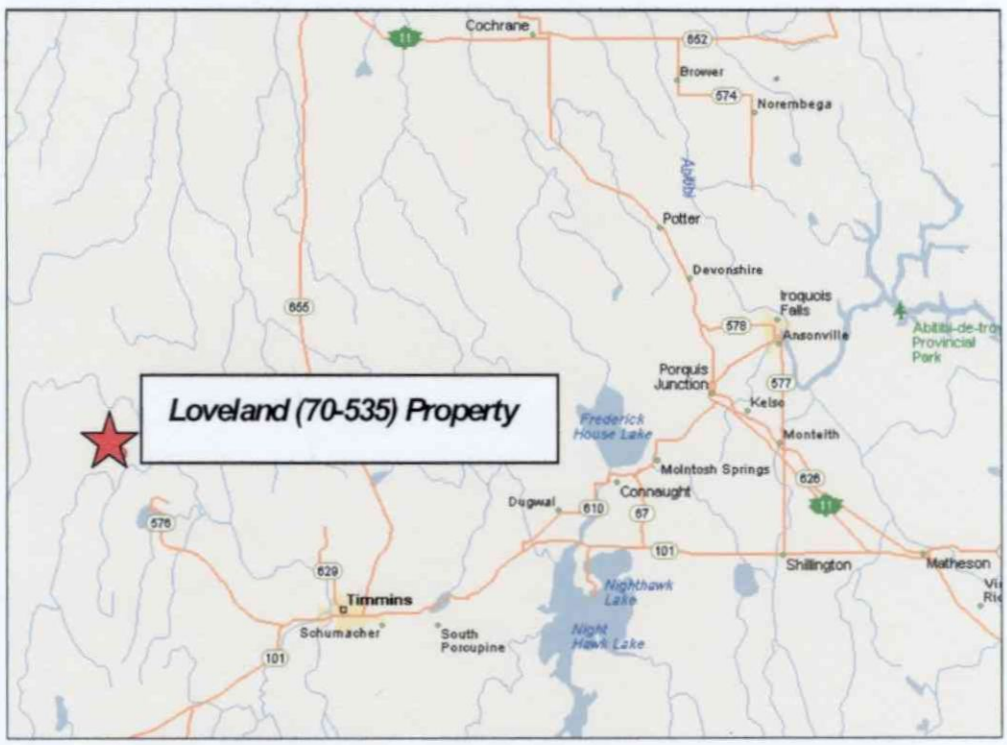


Figure I: General Location of the Loveland (70-535) Project

2.2 Access

- **Base of Operations:** Timmins, ON
- **Mode of Access:** The grid was accessed by 4x4 truck and all terrain vehicle.

2.3 Survey Grids

- **Coordinate Reference System:** Local exploration grid - UTM referenced (NAD83 Zone 17) from base map provided
- **Established:** prior to survey execution
- **Line Direction:** 90°
- **Line Separation:** 200 meters
- **Station Interval:** 50 meters
- **Method of Chaining:** metric, slope distance

2.4 Claims Surveyed

Referenced from base map provided - 1199701, 1199702, 1199703, 1199704, 1199705,1199706, 1199707, 199708, 1199709. These claims were originally registered by Inmet Mining Corp. which now authorizes Wooduff Capital Management Inc. to file assessment credits on its behalf (Ap pendix F).

3. SURVEY WORK UNDERTAKEN

3.1 GENERALITIES

- **Survey Dates:** September 23rd to 30th, 2004
- **Survey Period:** 8 days
- **Survey Days (read time):** 8
- **Survey Coverage:** 30.6 line kilometers

3.2 PERSONNEL

- **Project Supervisor:** Sherwood Coulson, Porcupine, ON
- **Project Manager:** John Cribbs, Porcupine, ON
- **Technicians:** Alain Dufour, Trois Rivieres, QC
  Eric Dufour, Val d'Or, QC
  Eric Hotvedt, Ramore, ON

3.3 SURVEY SPECIFICATIONS

Configuration: In and Off-loop profiling

- **Output Power Stage:** Low Power (2.8 kW)
- **Dimension:** 3 Component (X,Y and Z)
- **Loop Sizes and Location:** See Table I

Loop #	SW Corner	NW Corner	NE Corner	SE Corner
1	0, 1000N	0, N2200	1000E, 2200N	1000E, 0
2	0, 0	0, 1200N	1000E, 1200N	1000E, 0
3	0, 2000N	0,3000N	1000E, 3000N	1000E, 2000N
4	500E, 400N	500E, 1600N	1500E, 1600N	1500E, 400N
5	500E, 1400N	500E, 2600N	1500E, 2600N	1500E, 1400N
6	1000E, 1200N	1000E, 2400N	2000E, 2400N	2000E, 1200N

Table I: TEM Loop Locations at Loveland (70-535)

- **Line Interval:** 200 meters
- **Station Interval:** 50 meters

3.4 SURVEY COVERAGE

Loop	Line	Min Extent	Max Extent	Total Survey (m)
1	L12+00N	4+00W	6+00E	1000
	L14+00N	4+00W	6+00E	1000
	L16+00N	4+00W	6+00E	1000
	L18+00N	4+00W	6+00E	1000
	L20+00N	4+00W	6+00E	1000
2	L2+00N	4+00W	8+00E	1200
	L4+00N	4+00W	8+00E	1200
	L6+00N	4+00W	6+00E	1000
	L8+00N	4+00W	6+00E	1000
	L10+00N	4+00W	6+00E	1000
3	L22+00N	4+00W	6+00E	1000
	L24+00N	4+00W	6+00E	1000
	L26+00N	BL0	12+00E	1200
	L28+00N	BL0	12+00E	1200
4	L6+00N	3+00E	12+00E	900
	L8+00N	3+00E	12+00E	900
	L10+00N	3+00E	12+00E	900
	L12+00N	3+00E	12+00E	900
	L14+00N	3+00E	12+00E	900
5	L16+00N	3+00E	12+00E	900
	L18+00N	3+00E	12+00E	900
	L20+00N	3+00E	12+00E	900
	L22+00N	3+00E	12+00E	900
	L24+00N	3+00E	20+00E	1700
6	L14+00N	8+00E	20+00E	1200
	L16+00N	8+00E	20+00E	1200
	L18+00N	8+00E	20+00E	1200
	L20+00N	8+00E	20+00E	1200
	L22+00N	8+00E	20+00E	1200
Total				**30.6 km**

Table II: Survey Coverage at Loveland (70-535)

3.5 Instrumentation TEM Survey

- **Receiver:** Geonics Digital Protem, 3D-3 coil (200 m^2 effective area)
- **Transmitter:** Geonics EM-37(2.8 kW output)
- **Power Supply:** Geonics GPU-2000

3.6 PARAMETERS

Pulse repetition frequency:	30Hz
Gain:	1 – 6
Integration number:	15 sec
Approximate Loop Sizes:	1000m x 1200m
Current:	7.5 – 8.5 Amps
Turn-off times:	335 – 360µs
Gate positions	80-6136us (see Appendix C)
Synchronization mode:	Crystal

Table III: System Parameters for TEM Survey

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

COMPONENT	COIL ORIENTATION
Z	Positive up
X	Positive west
Y	Positive west - defined by right hand rule according to Z, X

Table IV: Coil Conventions for TEM Survey

- **Measured Parameters:** dB/dt, mV.
- **Data Reduction**[1]**:** nanoVolts/Ampere-meter[2]

3.7 MEASUREMENT ACCURACY AND REPEATABILITY

- **Number of Repeats per Station:** 0-1
- **Number of Repeats per Day:** 3-10
- **Number of Repeats per Grid:** 20-21
- **Average Repeatability:** <1% in early channels
- **Worst Repeatability:** 1%

3.8 DATA PRESENTATION

- **Profiles:**

Profile Format	4-Axis (see Fig. 2)
# of Profiles:	116
Horizontal Map Scale:	1:5000
Vertical Profile Scales:	Varies to best display data for each component
Components Profiled:	3D survey: Total Field,[2] X, Y and Z

Table V: TEM Profile Specifications.

[1] Equivalent to Crone units of nanoTesla/second normalized to a unit current.
[2] TF = SQRT { $(dB_X/dt)^2$ + $(dB_Y/dt)^2$ +$(dB_Z/dt)^2$ }, using Quantec Geoparse™

- **Plan Maps:**

Plan Map Types:	1) Posted/Contoured Total TEM Field 2) Interpretation
Channel Contoured:	16
# of TEM Plan Maps:	2
Map Scale:	1:5000
Grid Cell Size:	25 m
Gridding Method:	Bigrid
Contouring Method:	Linear
Contour Interval:	0.5, 2, 10nanoVolt/A*m^2

Table VI: Plan Map Specifications

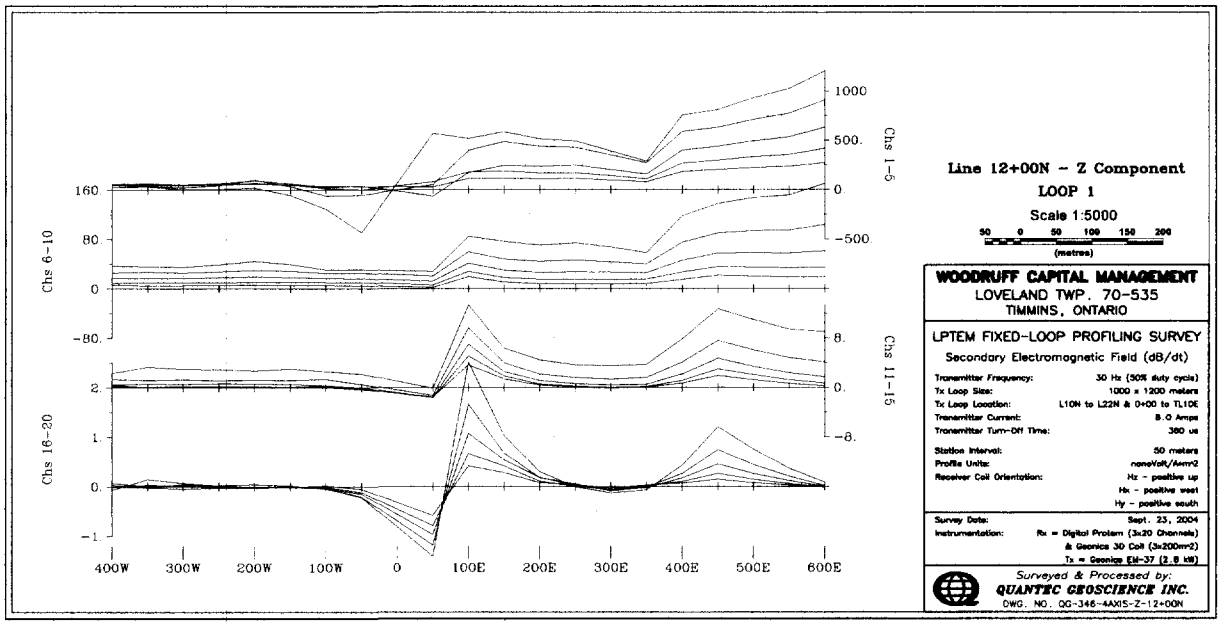


Figure II: 4-Axis Surface TEM Profile Format.

- **Digital Data:** Daily raw files and processed data (Geosoft .XYZ format) on 3.5 inch HD (1.44 Mbytes) diskettes

a) raw data dump files, according to acquisition date (DDMMYY.RAW ie. 100800.raw) Geonics Digital Protem format (refer to Protem manual)

b) reduced XYZ ASCII data files, according to line 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 (nanoVolt/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. RESULTS AND INTERPRETATION

Details concerning the bedrock geology and the full extent of exploration on the property are not known by the present author, however, correlation with magnetic data acquired by Quantec in September 2004 has been done in conjunction with the TEM survey results.

Generally, the grid is overlain by a weakly to moderately conductive overburden layer. This layer does appear to thicken or become more conductive in the area of Loop 6. However, the overall affect does not hamper the interpretation. The TEM survey was successful in delineating three (3) significant bedrock conductors related to potential massive sulphide mineralization. These are discussed in detail below. Some gaps in the coverage exist due to lakes. As a result, some of the conductor responses are incomplete.

Responses have been modelled using Maxwell[3] to better define conductor characteristics i.e. depth, dip, conductivity thickness. Examples of these models are included in Appendix D

4.1 CONDUCTOR "A":

Conductor "A" is a grid NE-SW trending feature traced from line 200N at 150E to line 1400N at 950E. It remains open to the south but is terminated at or slightly north of 1400N. The conductor is characterized by an 18 to 20 channel, high amplitude response. There is little shift in the conductor location when surveyed from loops 2 and 4 confirming a valid bedrock response. The conductor is well defined on lines with an estimated depth to top ranging from 75 meters on line 200N to 40 meters on line 1200N. It has a moderate large surface area (50 – 100 meters) and dips moderately (45°) east. Conductivity calculated in Maxwell is approximately 30 Siemens. Conductor "A" corresponds to a NE-SW trending magnetic high (Coulson and Legault, September 2004) making this a highly prospective target for sulphide iron formation.

4.2 CONDUCTOR "B"

Conductor "B" is only partially defined due to lack of coverage over lakes in on the grid. The only complete response is seen on line 1200N at 50E. Building responses west of 100E on lines 800N and 1000N suggests this conductor may continue south to 800N at approximately 50E. On line 1200N the conductor appears to dip steeply to the east with an estimated depth to the top of approximately 40 meters. As with Conductor "A", this conductor flanks a magnetic trend to the west. Conductor "B" is considered a high priority target.

4.3 CONDUCTOR "C"

Conductor "C" is a single line response on line 1200N at 400E. The estimated depth the top is 50 meters with a moderate to shallow east dip. This conductor is best defined from loop 2 but is also evident from loop 4 albeit overshadowed by Conductor "A". Although this conductor is has a small to moderate surface and is only evident on the one line, it has the potential for up to 200 meters strike length and extensive depth extent. Conductor "C" is closely associated with two (2) magnetic trends and is therefore considered a high priority geophysical target

[3] Maxwell 4 – a powerful environment for modelling, presentation and visualization of EM geophysical data. Written by Electromagnetic Imaging Technology of Australia – www.emit.iinet.net.au.

4.4 OTHER CONDUCTORS

A number of weaker conductors were delineated by the TEM survey and are noted in the table below and on the accompanying plan map. These are considered low priority targets.

LINE	STATION	# CHANNELS	DEPTH	QUALITY	ANOMALY #	COMMENTS
200N	150E	20	75	Mod-Strong	"A"	Moderate area well defined moderate east dip.
400N	350E	20	?	Mod-Strong	"A"	Possible multiple conductor response. Moderate north dip.
600N	475E	20	70	Mod-Strong	"A"	Moderate area well defined moderate east dip.
800N	50E	?	?	Questionable	"B"	Incomplete response but possible conductor under beaver pond.
	550E	20	55	Mod-Strong	"A"	Moderate to large area well defined steep east dip.
1000N	50E	?	?	Questionable	"B"	Incomplete response. Possible conductor under beaver pond to west.
	650E	20	65	Mod-Strong	"A"	Noisy Hx component. Migration early to late time. Moderate to shallow east dip.
1200N	50E	20	40	Mod-Strong	"B"	Small to moderate area well defined. Steep east dip.
	400E	20	50?	Mod-Strong	"C"	Small area well defined. Strong influence from conductor to east. Moderate to shallow east dip.
	850E	20	45	Mod-Strong	"A"	Steep to moderate east dip.
1400N	25E	7	?	Weak		Weak poorly defined. Possible weakly mineralized contact or structure.
	375E	7	?	Weak		Weak poorly defined. Possible weakly mineralized contact or structure.
	525E	7	?	Weak		Weak poorly defined. Possible weakly mineralized contact or structure.
	950E	13	90?	Moderate		Moderate area sub-vertical dip.
1600N	50W	7	?	Weak		Weak poorly defined. Possible weakly mineralized contact or structure.
	450E	6	?	Weak		Weak poorly defined. Possible weakly mineralized contact or structure.
	425E	8	?	Weak		Possible OB relate response.
	950E	9	?	Weak		Possible OB related response?
	1150E	6	?	Weak		Possible OB related response?
1800N	400E	16	30	Moderate		Near surface small area steep east dip.
	1050E	11	?	Weak		Possible OB related response?
2000N	450E	20	35	Mod-Strong		Moderate area strong conductor sub-vertical dip.
	975E	8	?	Questionable		Possible OB related response?
	400W	?	?	End of Line		Building response off west end of line - possible conductive halfspace response.
2400N	250W	7	?	Weak		Possible OB related response.

Table VII: Anomly Table for Loveland (70-535)

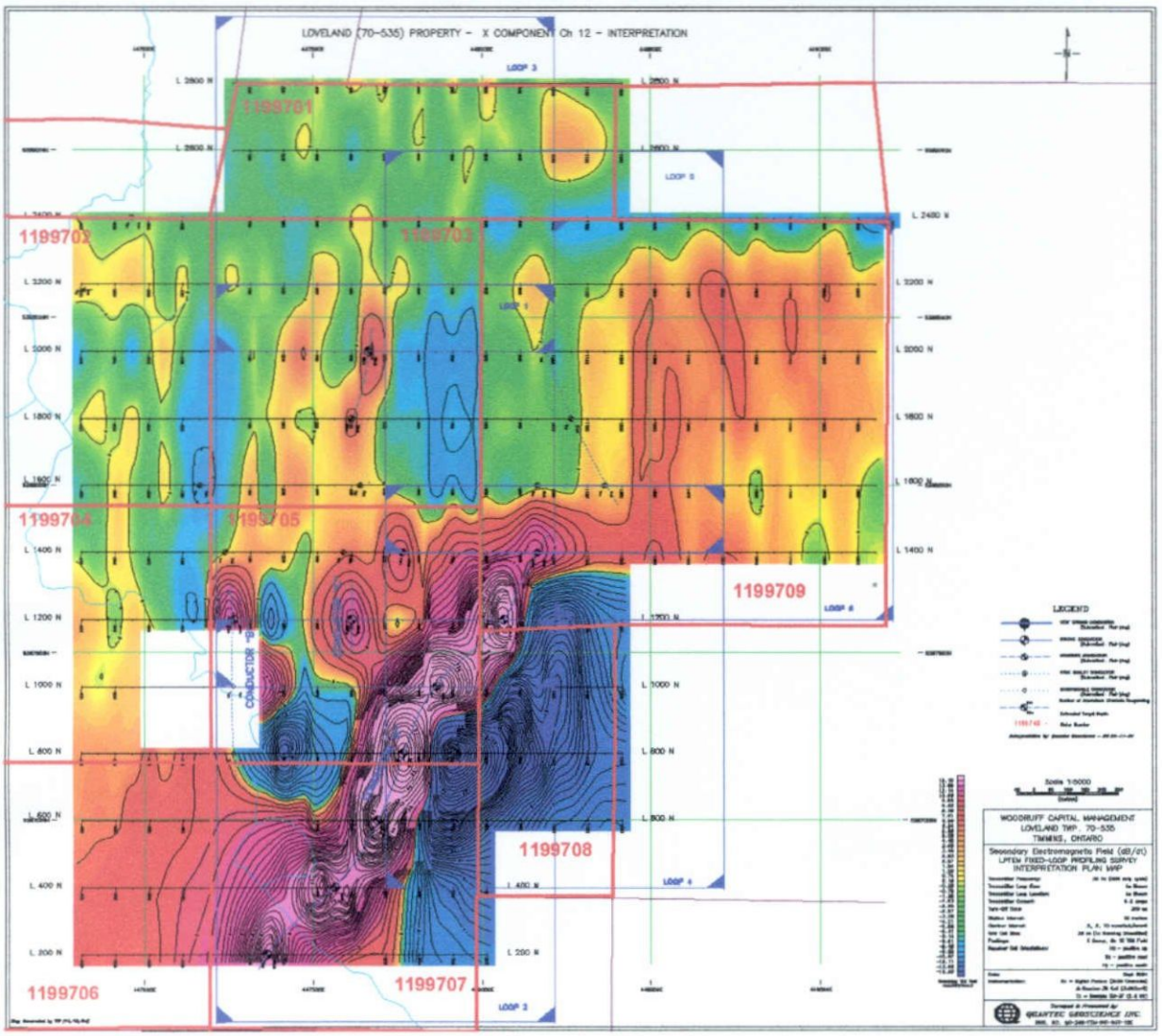


Figure III: Interpretation Plan Map for Loveland (70-535).

5. CONCLUSIONS AND RECOMMENDATIONS

The TEM survey over the Loveland 70-535 grid was successful in delineating a 3 conductors of significance. All the conductors should be reviewed in conjunction with historical data to determine if these zones are yet unexplained.

Conductor "A"
Conductor "A's" association with a magnetic feature makes it highly prospective for potential sulphide mineralization. If deemed geologically significant and unexplained, Conductor "A" should be considered for drill testing approximately 50 meters vertically below 1200N, 850E. If possible consideration shouldbe given to extending the grid south of line 200N to determine the full southern extent of the conductor.

Conductor B
If deemed geologically significant and unexplained, consideration should be given to completing coverage over the lakes on lines 800N and 1000N to determine the full strike length and characteristics of Conductor B.

Conductor C
If deemed geologically significant and unexplained consideration should be given to drill testing 50 meters vertically below 1200N, 450E.

It is recommended that all drilling be followed up with Borehole TEM surveys to determine the extent of mineralization intersected in the drill holes and to locate any conductors off the hole within a 50 to 100 meter radius.

RESPECTFULLY SUBMITTED
QUANTEC GEOSCIENCE INC.

S.T Coulson, P.Geo.
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 Consulting Inc. of Porcupine, Ontario.

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

3. I am a practicing member of the Association of Professional Geoscientists of Ontario.

4. I have practiced my profession in Europe and North 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 **Woodruff Capital Management Inc.**

7. The statements made by me in this report represent my best opinion and judgment based on the information available to me at the time of the writing.

Porcupine, ON
November 2004

S T. Coulson, P.Geo.
Quantec Geoscienc Inc.

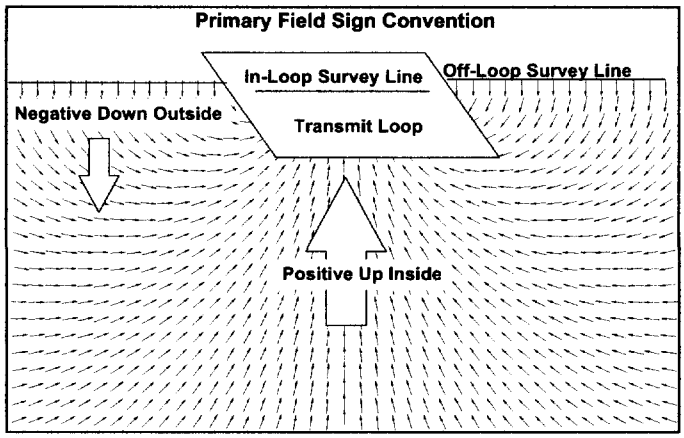
APPENDIX B

THEORETICAL BASIS AND SURVEY PROCEDURES

TEM SURFACE 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 9). This primary field induces a vortex current pattern, which energizes 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.



Primary field sign convention for TEM surveys.

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]

Target Response to Transmitter Current Waveform:

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

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

$$\text{where: } t = \text{fixed time}$$

$$e = \text{exponential decay}$$

$$\tau = \text{time constant of conductor}$$

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 (ie., 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:

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

$$\text{where } \sigma = \text{conductivity of target}$$

$$\mu = \text{magnetic susceptibility}$$

$$t = \text{thickness of plate}$$

$$h = \text{vertical extension of plate}$$

Equation 2: Transient EM Decay Time Constant

thereby giving, for an infinite vertical sheet:

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

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

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

Equation 4: Transient EM Total Secondary Field

APPENDIX C

PRODUCTION LOG

LOVELAND (70-535) PROPERTY SURFACE TEM SURVEYS						
Date	**Description**	**Loop**	**Line**	**Min Extent**	**Max Extent**	**Total Survey (m)**
23-Sep-04	Alain Dufour completed installation of Loop 1 and began installation of Loop 3. John Cribbs and Eric Dufour began and completed TEM survey of Loop 2.	Loop 2	L12+00N	4+00W	6+00E	1000
			L14+00N	4+00W	6+00E	1000
			L16+00N	4+00W	6+00E	1000
			L18+00N	4+00W	6+00E	1000
			L20+00N	4+00W	6+00E	1000
24-Sep-04	Alain Dufour and Eric Hotvedt collected Loop 2 and completed installation of Loop 3. John Cribbs and Eric Dufour completed surface TEM survey of Loop 1.	Loop 1	L2+00N	4+00W	8+00E	1200
			L4+00N	4+00W	8+00E	1200
			L6+00N	4+00W	6+00E	1000
			L8+00N	4+00W	6+00E	1000
			L10+00N	4+00W	6+00E	1000
25-Sep-04	Alain Dufour and Eric Hotvedt collected Loop 1 and installed Loop 5. John Cribbs and Eric Dufour completed TEM survey of Loop 3.	Loop 3	L22+00N	4+00W	6+00E	1000
			L24+00N	4+00W	6+00E	1000
			L26+00N	BL0	12+00E	1200
			L28+00N	BL0	12+00E	1200
26-Sep-04	Alain Dufour and Eric Hotvedt reclaimed Loop 3 and began installation of Loop 4. John Cribbs and Eric Dufour began TEM survey of Loop 5.	Loop 5	L16+00N	3+00E	12+00E	900
			L18+00N	3+00E	12+00E	900
			L20+00N	3+00E	12+00E	900
			L22+00N	3+00E	12+00E	900
27-Sep-04	Alain Dufour and Eric Hotvedt completed installation of Loop 4. John Cribbs and Eric Dufour completed TEM survey of Loop 5 and began reclaiming Loop 5.	Loop 5	L24+00N	3+00N	20+00E	1700
28-Sep-04	Alain Dufour and Eric Hotvedt completed installation of Loop 6 and finished reclaiming Loop 5. John Cribbs and Eric Dufour completed TEM survey of Loop 4.	Loop 4	L6+00N	3+00E	12+00E	900
			L8+00N	3+00E	12+00E	900
			L10+00N	3+00E	12+00E	900
			L12+00N	3+00E	12+00E	900
			L14+00N	3+00E	12+00E	900
29-Sep-04	Alain Dufour and Eric Hotvedt reclaimed Loop 4. John Cribbs and Eric Dufour completed TEM survey of Loop 6.	Loop 6	L14+00N	8+00E	20+00E	1200
			L16+00N	8+00E	20+00E	1200
			L18+00N	8+00E	20+00E	1200
			L20+00N	8+00E	20+00E	1200
			L22+00N	8+00E	20+00E	1200
30-Sep-04	Alain Dufour and Eric Hotvedt reclaimed Loop 6.					
	Total TEM Survey					**30.6 km**

APPENDIX D

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

GATE	285/237.5 Hz			75/62.5 Hz			30/25 Hz			GATE
1	6.000	6.813	1.625	32.00	35.25	6.500	80.00	88.13	16.25	1
2	7.625	8.688	2.125	38.50	42.75	8.500	96.25	106.9	21.25	2
3	9.750	11.13	2.750	47.00	52.5	11.00	117.5	131.3	27.5	3
4	12.50	14.19	3.375	58.00	64.75	13.50	145.0	161.9	33.75	4
5	15.88	18.07	4.375	71.5	80.25	17.50	178.8	200.6	43.75	5
6	20.25	23.06	5.625	89.00	100.3	22.50	222.5	250.6	56.25	6
7	25.88	29.44	7.125	111.5	125.8	28.50	278.8	314.4	71.25	7
8	33.00	37.56	9.125	140.0	158.3	36.50	350.0	395.6	91.25	8
9	42.13	47.94	11.63	176.5	199.8	46.50	441.3	499.4	116.3	9
10	53.75	61.13	14.75	223.0	252.5	59.00	557.5	631.3	147.5	10
11	68.50	77.94	18.88	282.0	319.8	75.50	705.0	799.4	188.8	11
12	87.38	99.38	24.00	357.5	405.5	96.00	893.8	1014	240.0	12
13	111.4	126.7	30.63	453.5	514.8	122.5	1134	1287	306.3	13
14	151.7**	166.4	29.38	576.0	654.3	156.5	1440	1636	391.3	14
15	181.1	206.0	49.88	732.5	832.3	199.5	1831	2081	498.8	15
16	231.0	262.8	62.63	932.0	1059	254.5	2330	2648	636.3	16
17	294.6	335.2	81.25	1187	1349	325.0	2966	3373	812.5	17
18	375.9	427.7	103.6	1512	1719	414.5	3779	4297	1036	18
19	479.5	545.6	132.1	1926	2190	528.5	4815	5475	1321	19
20	611.6	695.9	168.5	2455	2792	674.0	6136	6978	1685	20
21*	780.1			3129			7821			21*

Digital Protem Gate Locations

* End of Gate 20

** A Gap of 9.7 μsec exists between Gate 13 and Gate 14 in the micro-frequency range/

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 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

APPENDIX E

LIST OF MAPS

- **LPTEM Profiles:** **Multi-Channel 4-Axis:** showing time rate of decay of the secondary electromagnetic field, for X, Y , Z and Total Field components, 1:4800 scale, ch. 1-20 divided according to 4 vertical (linear) axes, nanoVolts per Ampere-meter^2 Where K=Z, X, Y, TF (Total Field) and line# corresponds to line read

LOOP #	MAP NAME	# PROFILES
1	QG-345-4AXIS-K-line#	20
2	QG-345-4AXIS-K-line#	20
3	QG-345-4AXIS-K-line#	16
4	QG-345-4AXIS-K-line#	20
5	QG-345-4AXIS-K-line#	20
6	QG-345-4AXIS-K-line#	20
		116

Plan Maps (1:5000 scale):

Posted/Contoured Total Field Component of Channel 15 Plan Map (UTM Referenced):
Map # QG-345-TEM-CONT-ROT-15TF

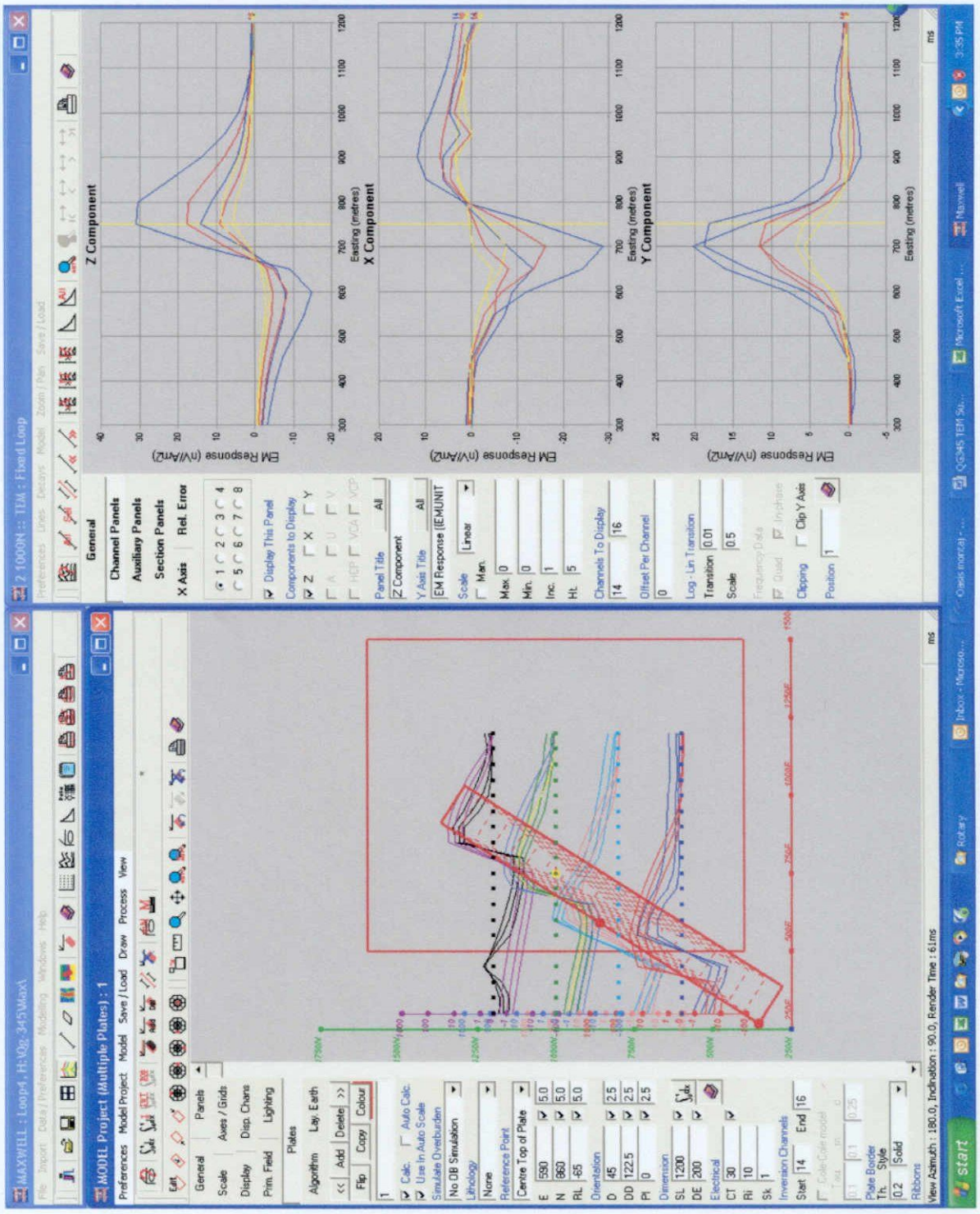
Contoured Total Field Component of Channel 15 Interpretation Plan Map (UTM Referenced):
Map # QG-345-TEM-INT-ROT-15TF

TOTAL PROFILES: 116

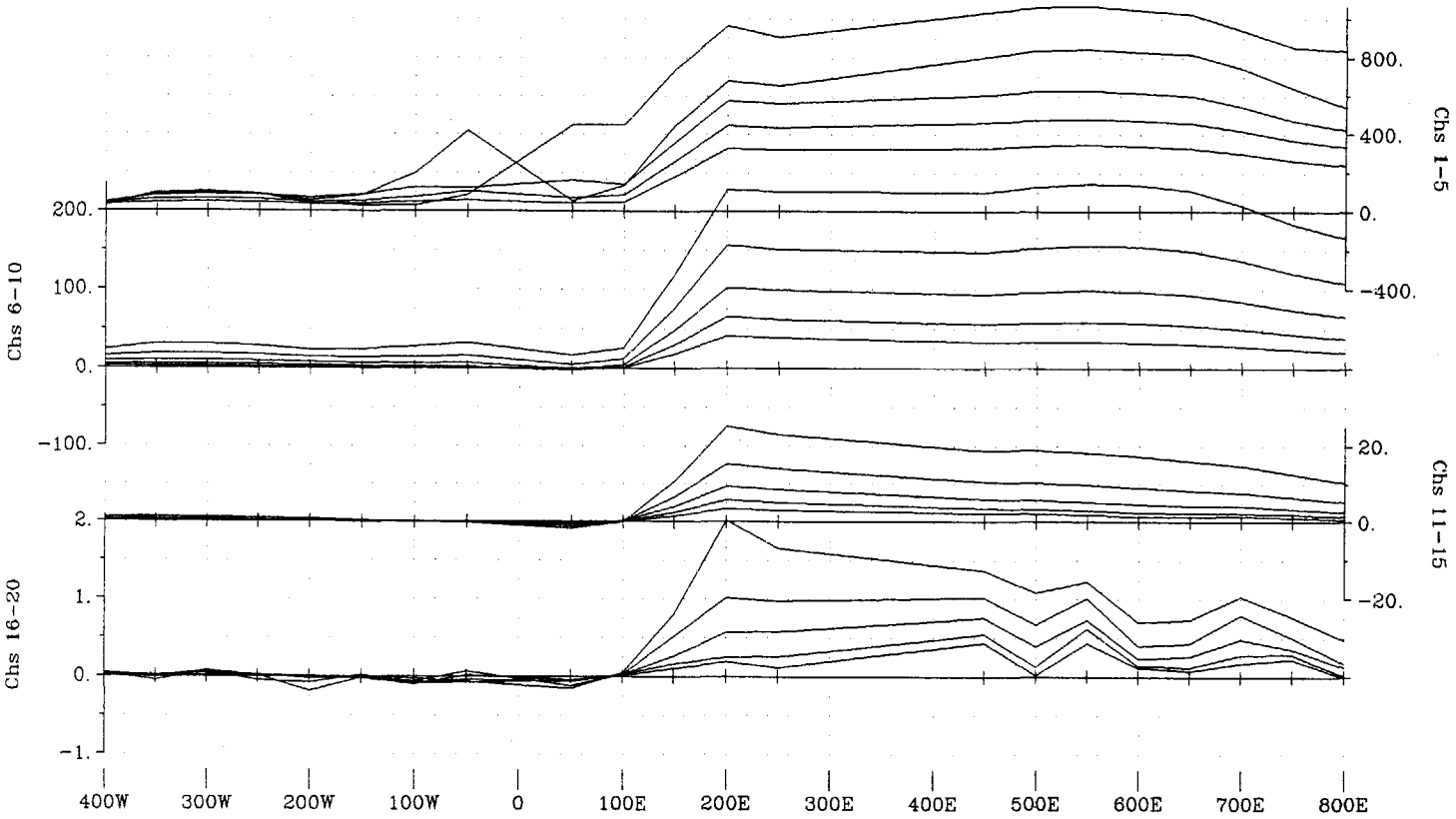
TOTAL PLAN MAPS: 2

APPENDIX F

MODEL RESULTS, PROFILES AND PLAN MAPS



MAXWELL MODEL RESULTS FOR L1000N FROM LOOP 4



Line 2+00N – Z Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

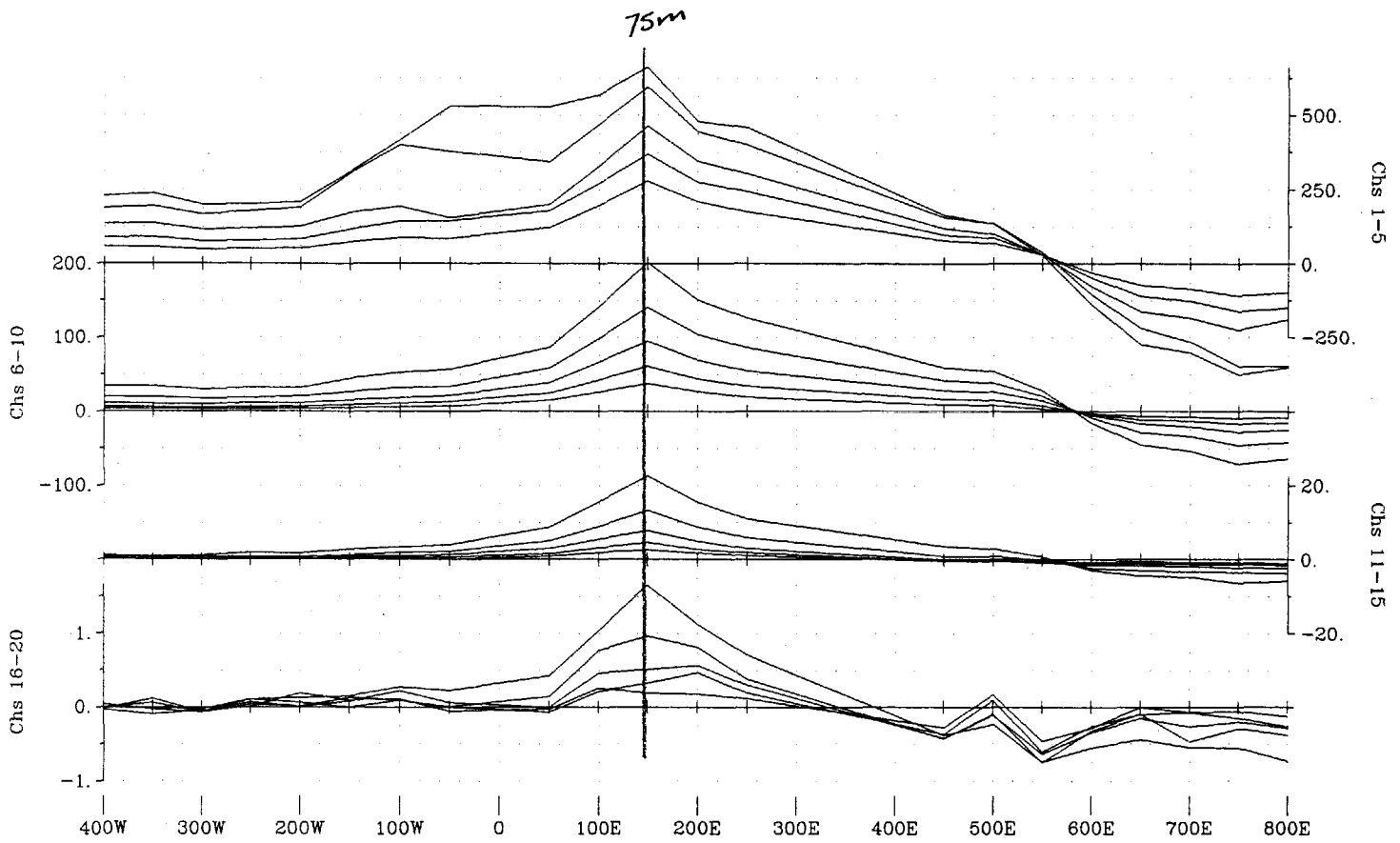
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Axm^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Z-2+00N



Line 2+00N – X Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

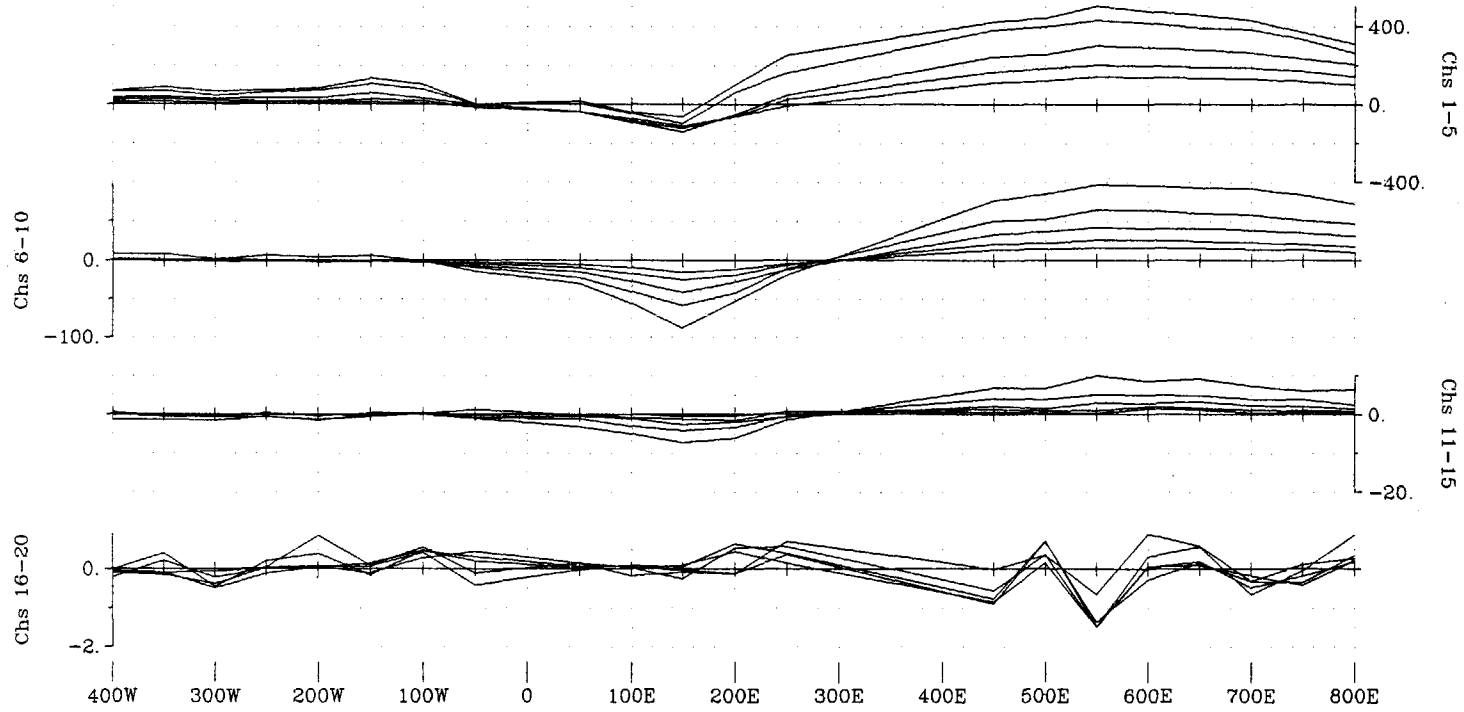
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-TF-2+00N



Line 2+00N - Y Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

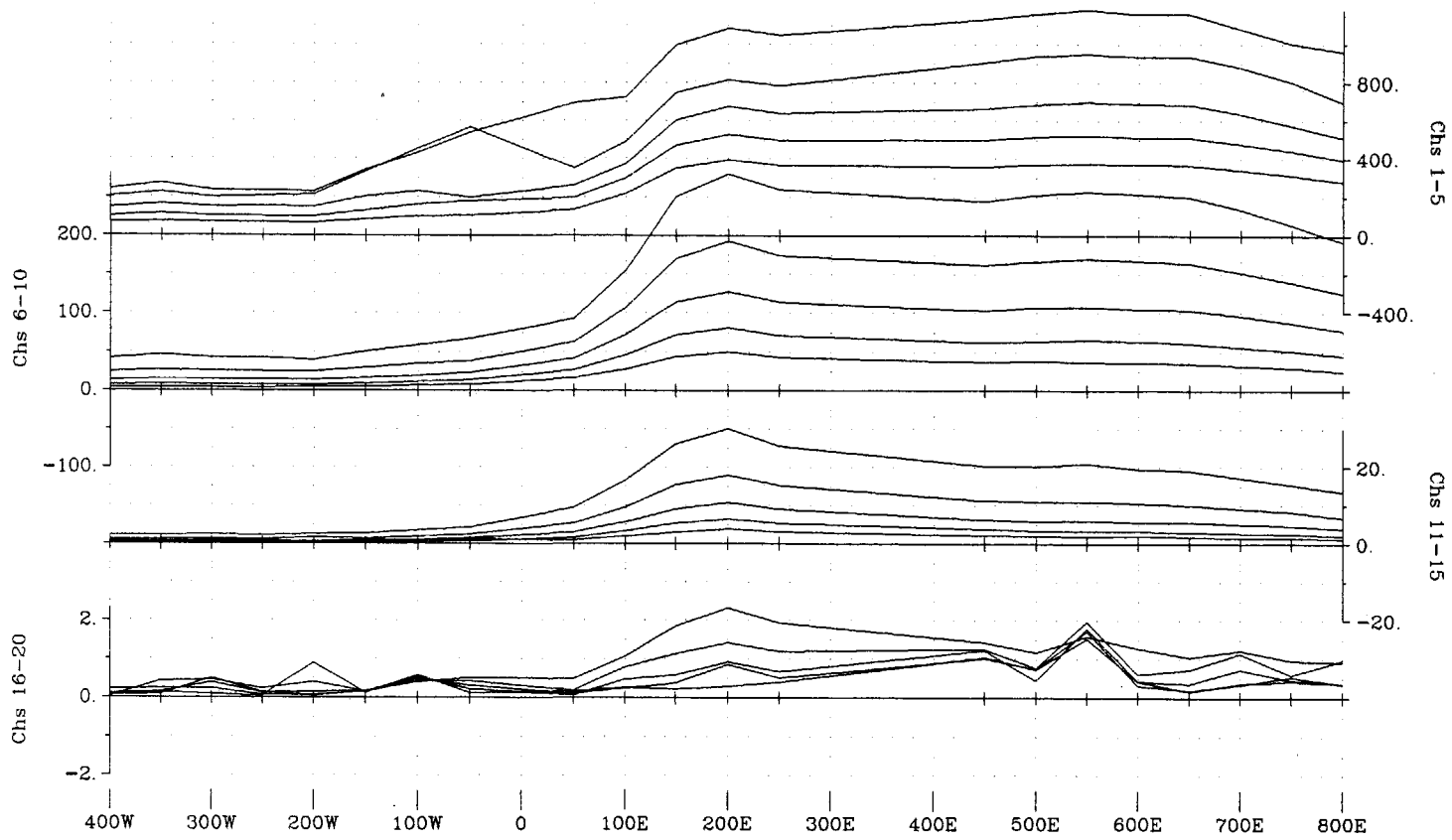
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Asm^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Y-2+00N



Line 2+00N – Total Field

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

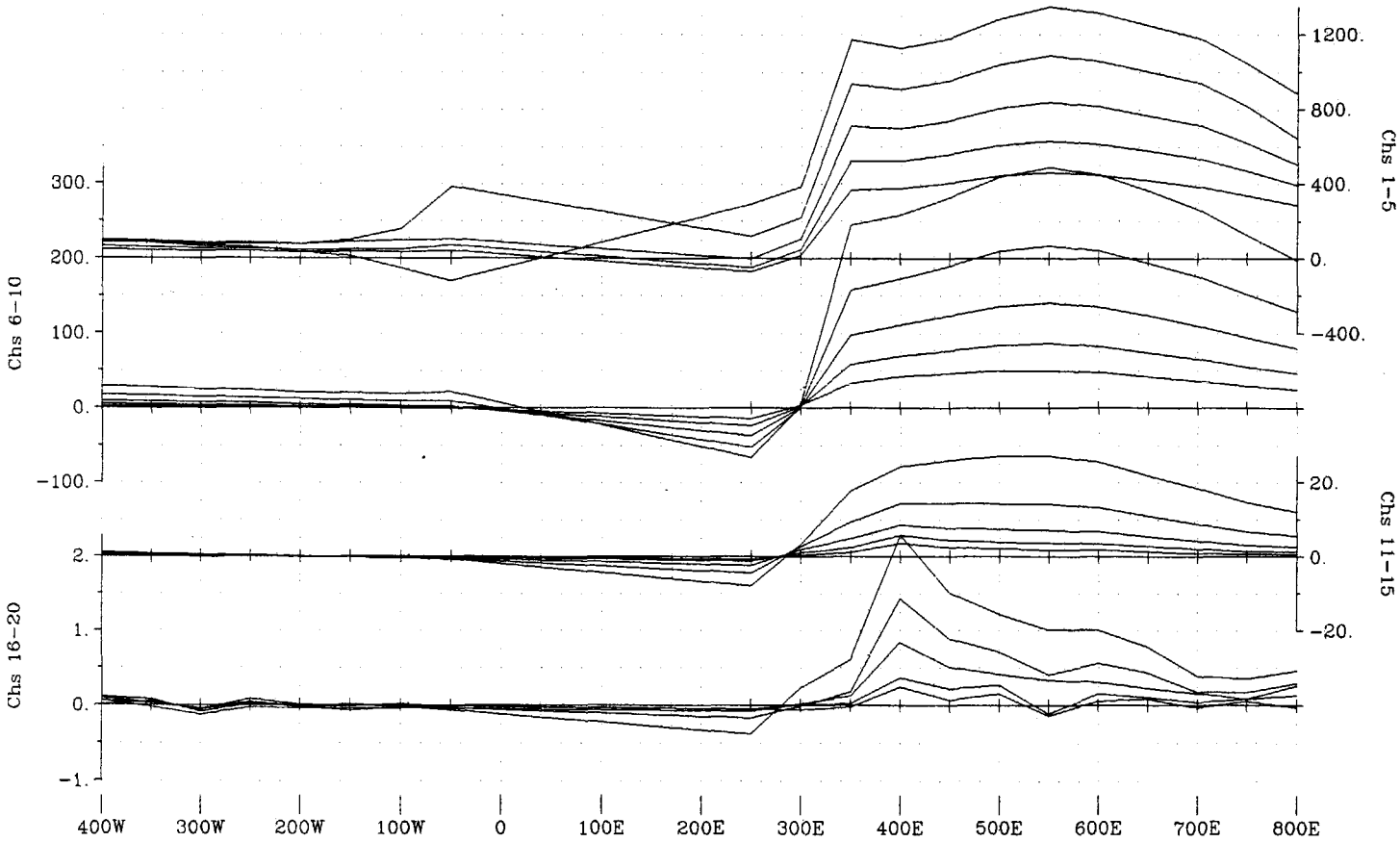
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-TF-2+00N



Line 4+00N – Z Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

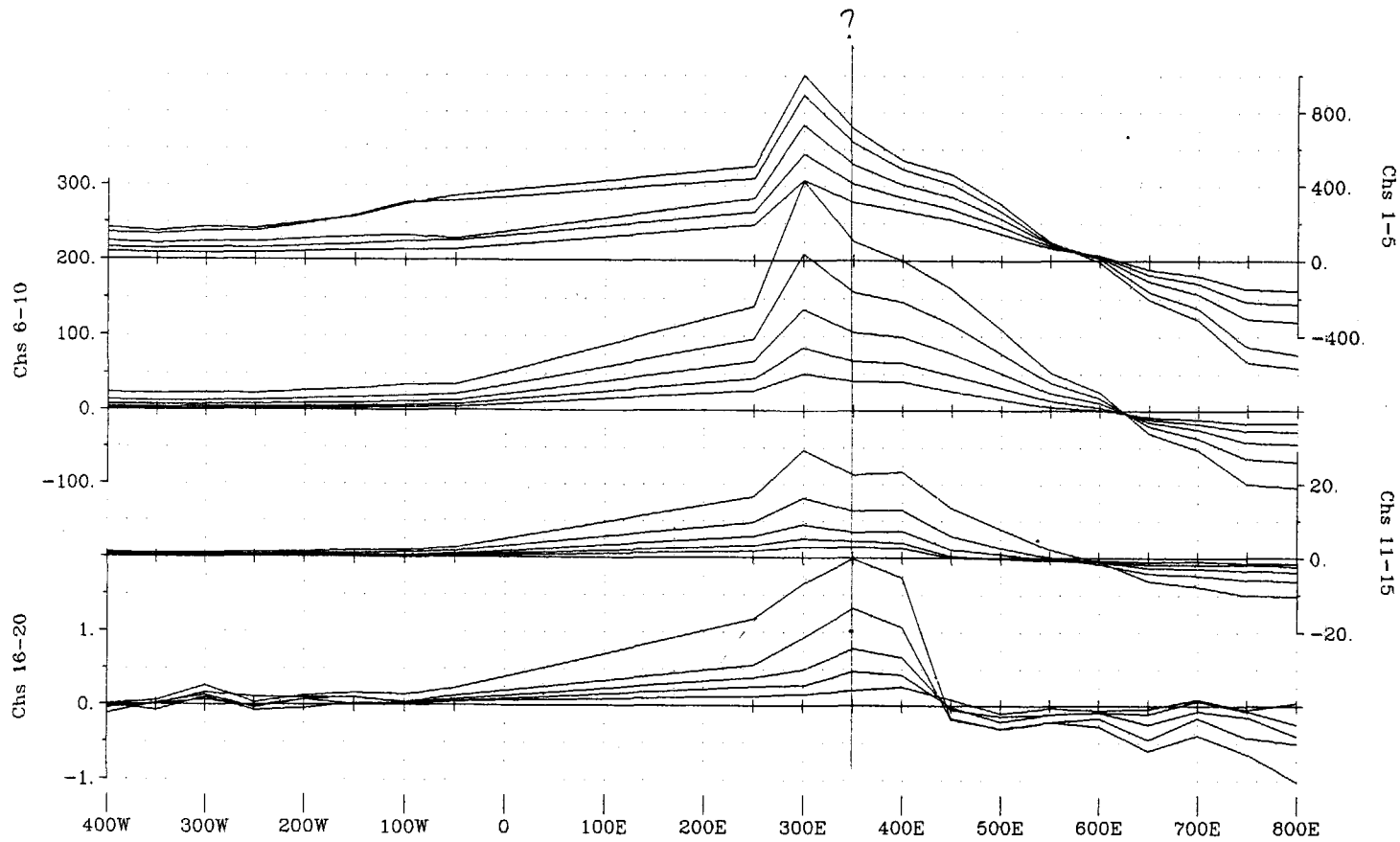
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Asm^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Z-4+00N



Line 4+00N – X Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

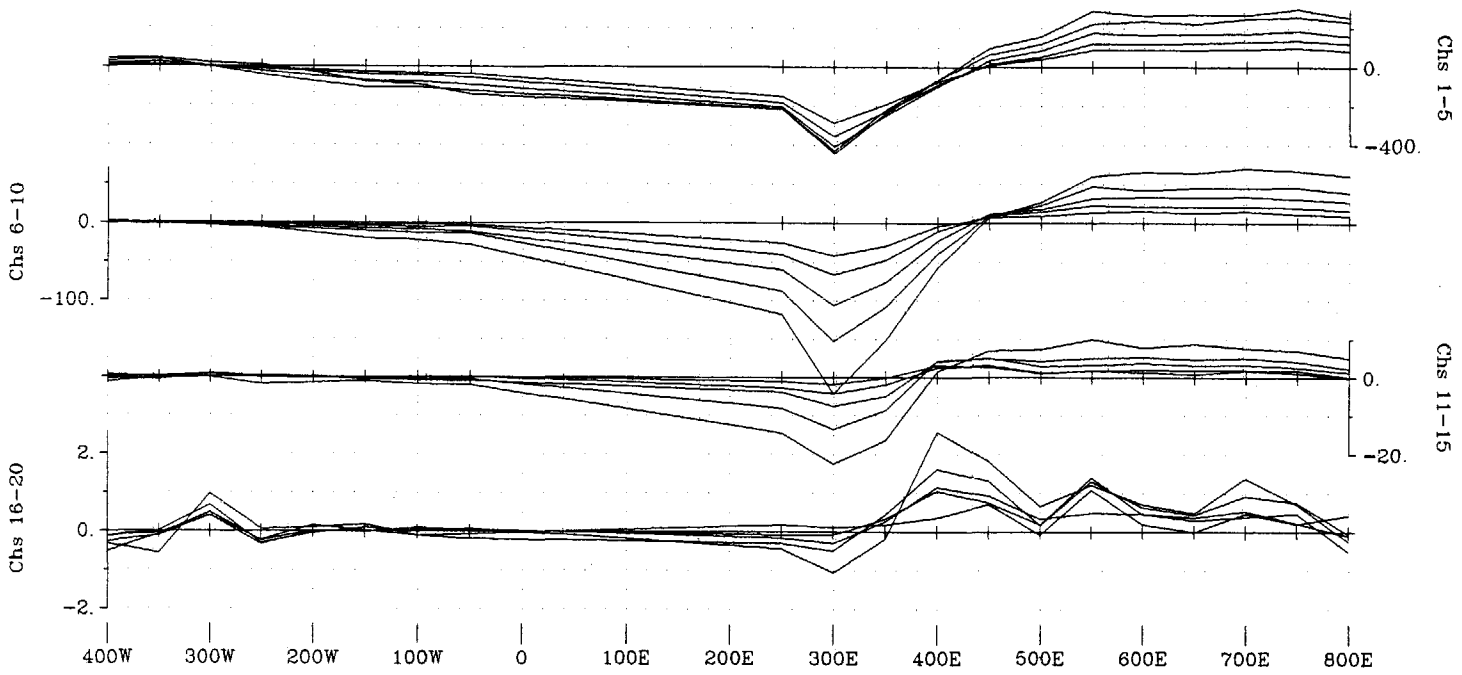
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-X-4+00N



Line 4+00N – Y Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

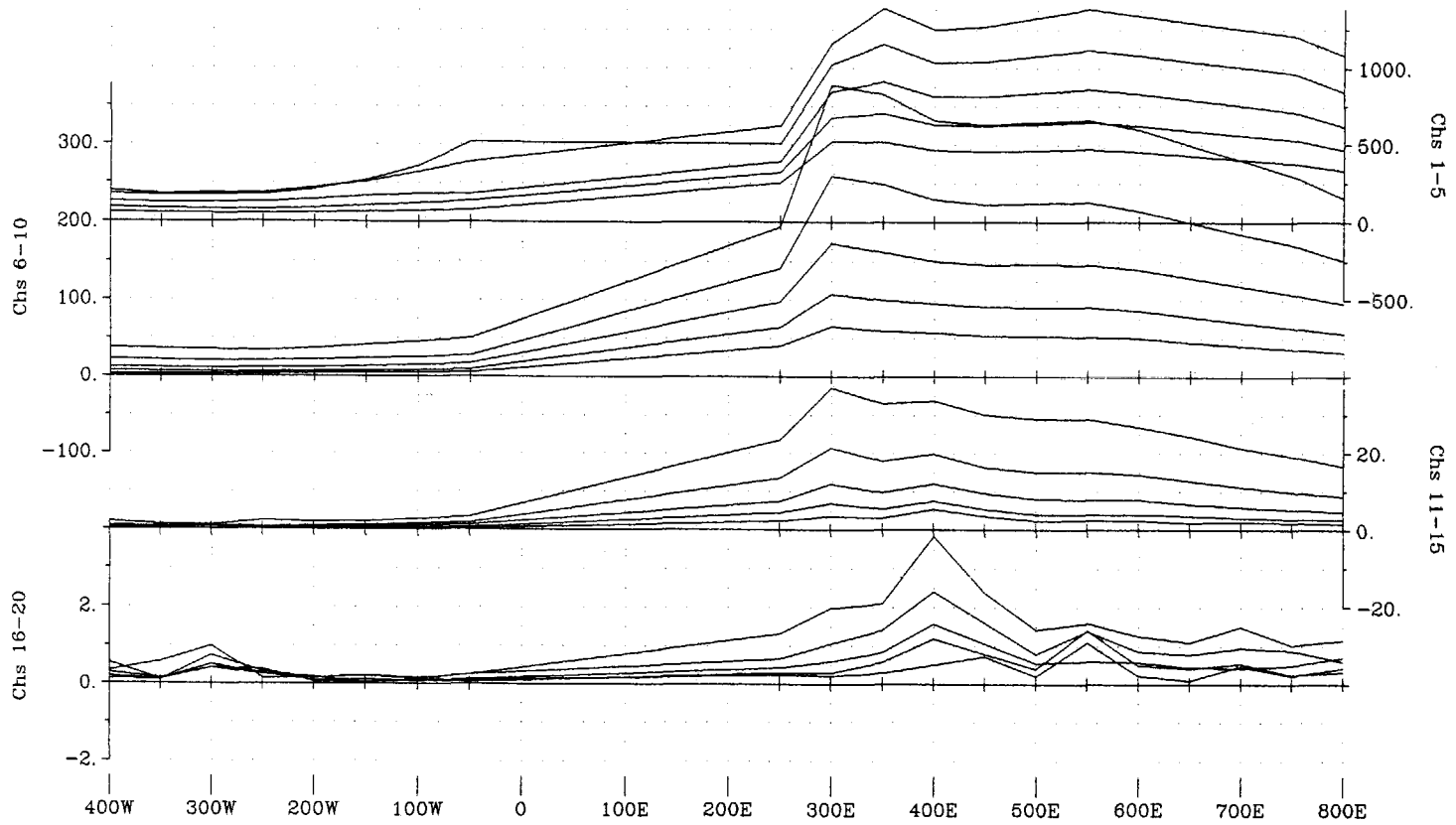
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Y-4+00N



Line 4+00N – Total Field

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

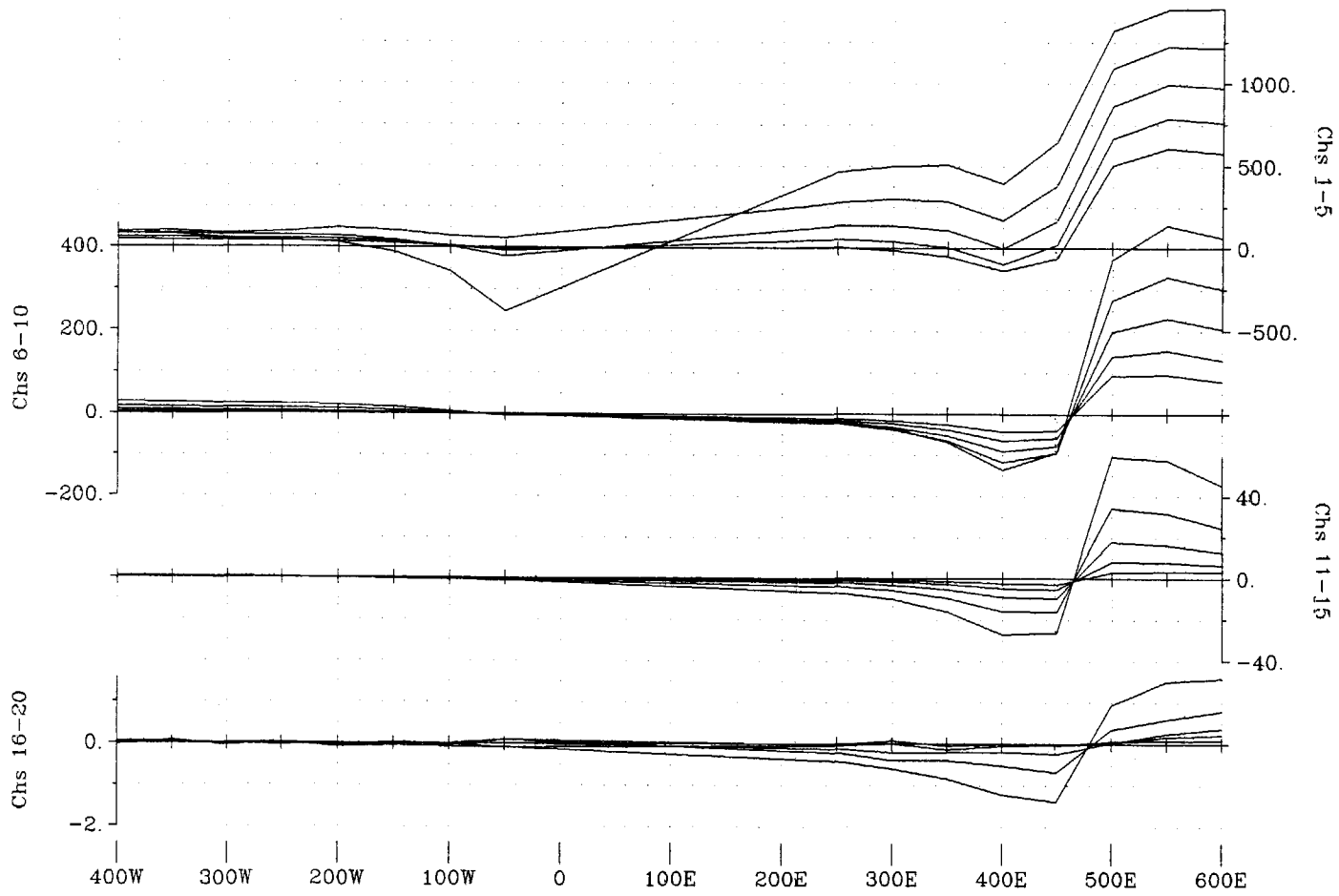
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-TF-4+00N



Line 6+00N – Z Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

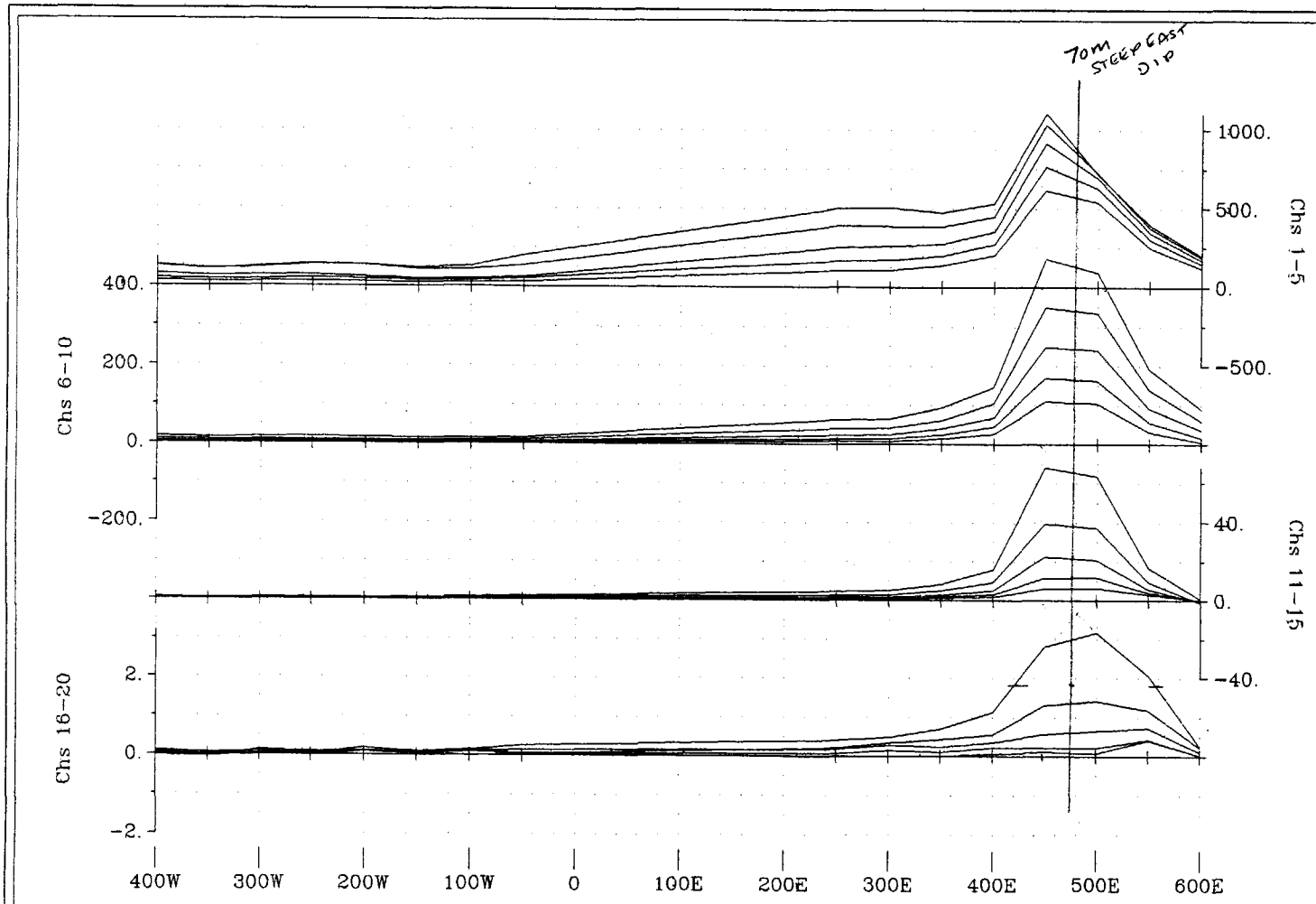
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Z-6+00N



Line 6+00N – X Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

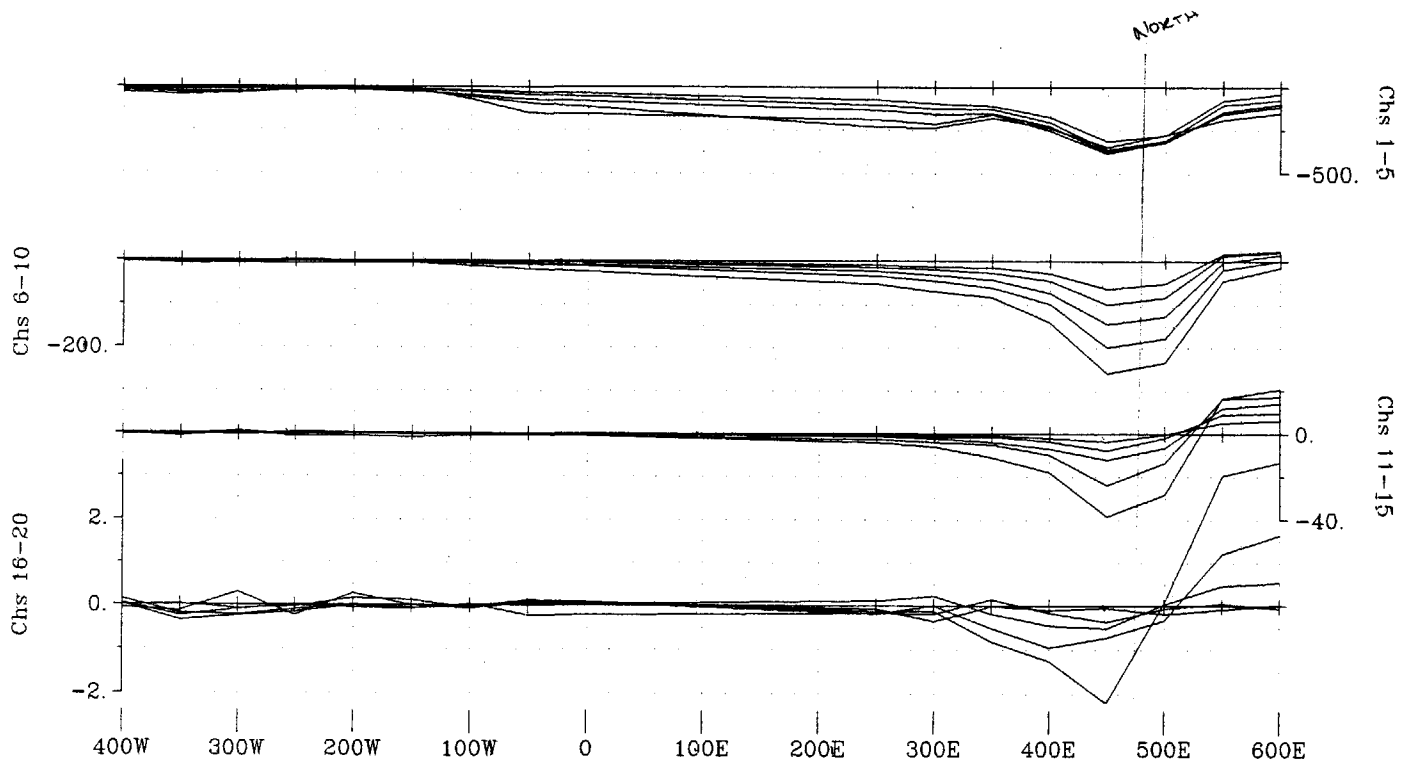
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-X-6+00N



Line 6+00N – Y Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

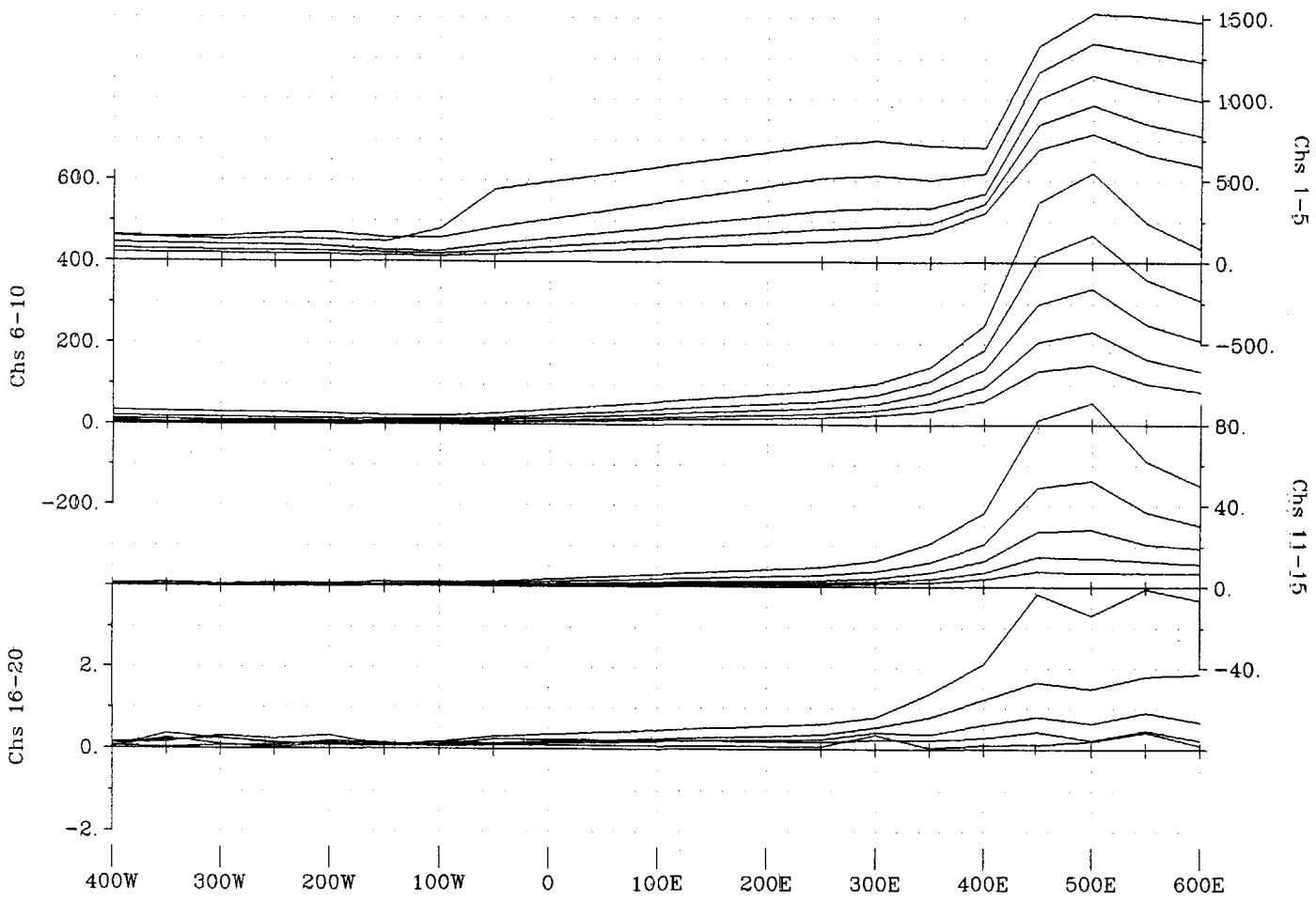
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Asm^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Y-6+00N



Line 6+00N – Total Field

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

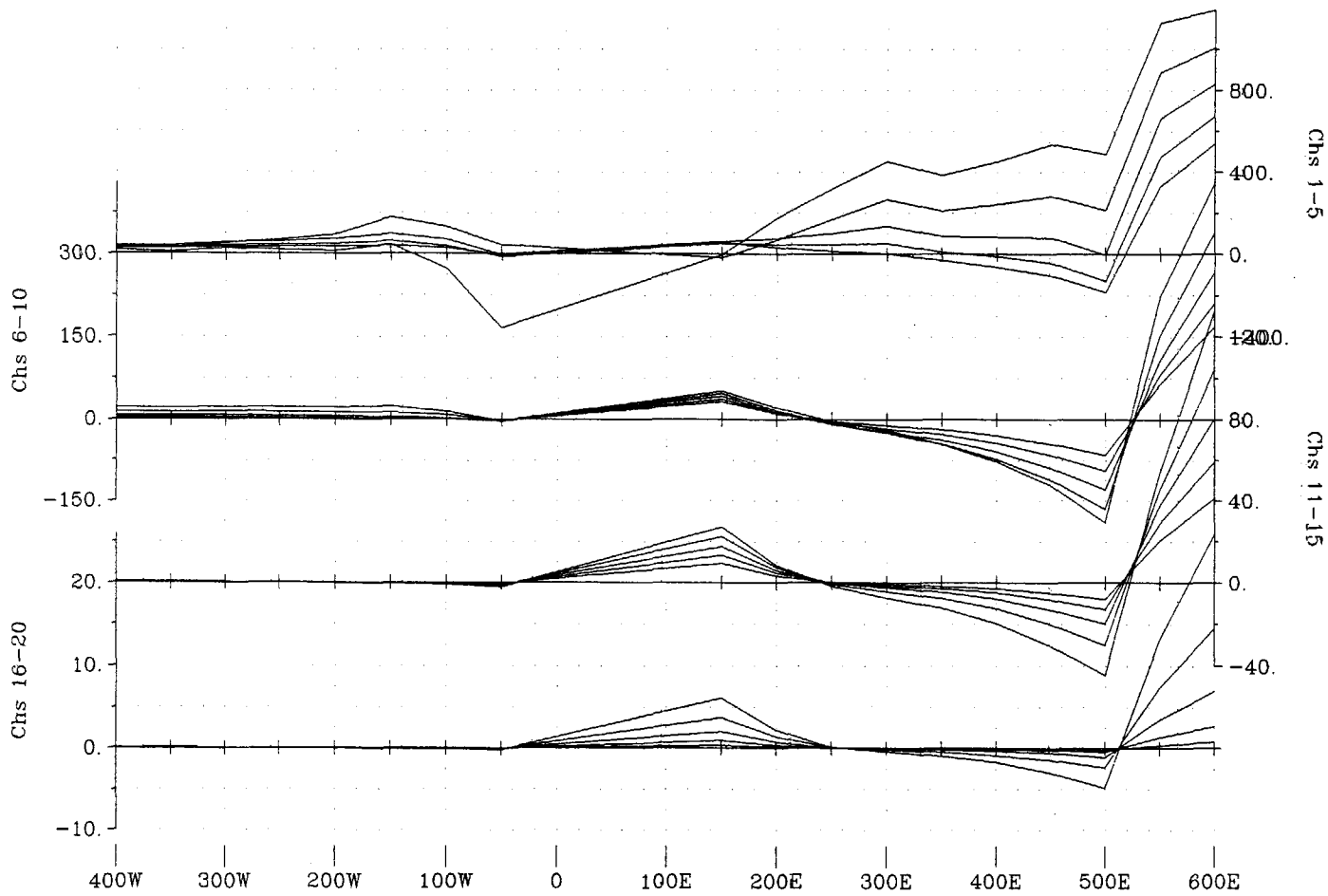
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-TF-6+00N



Line 8+00N – Z Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

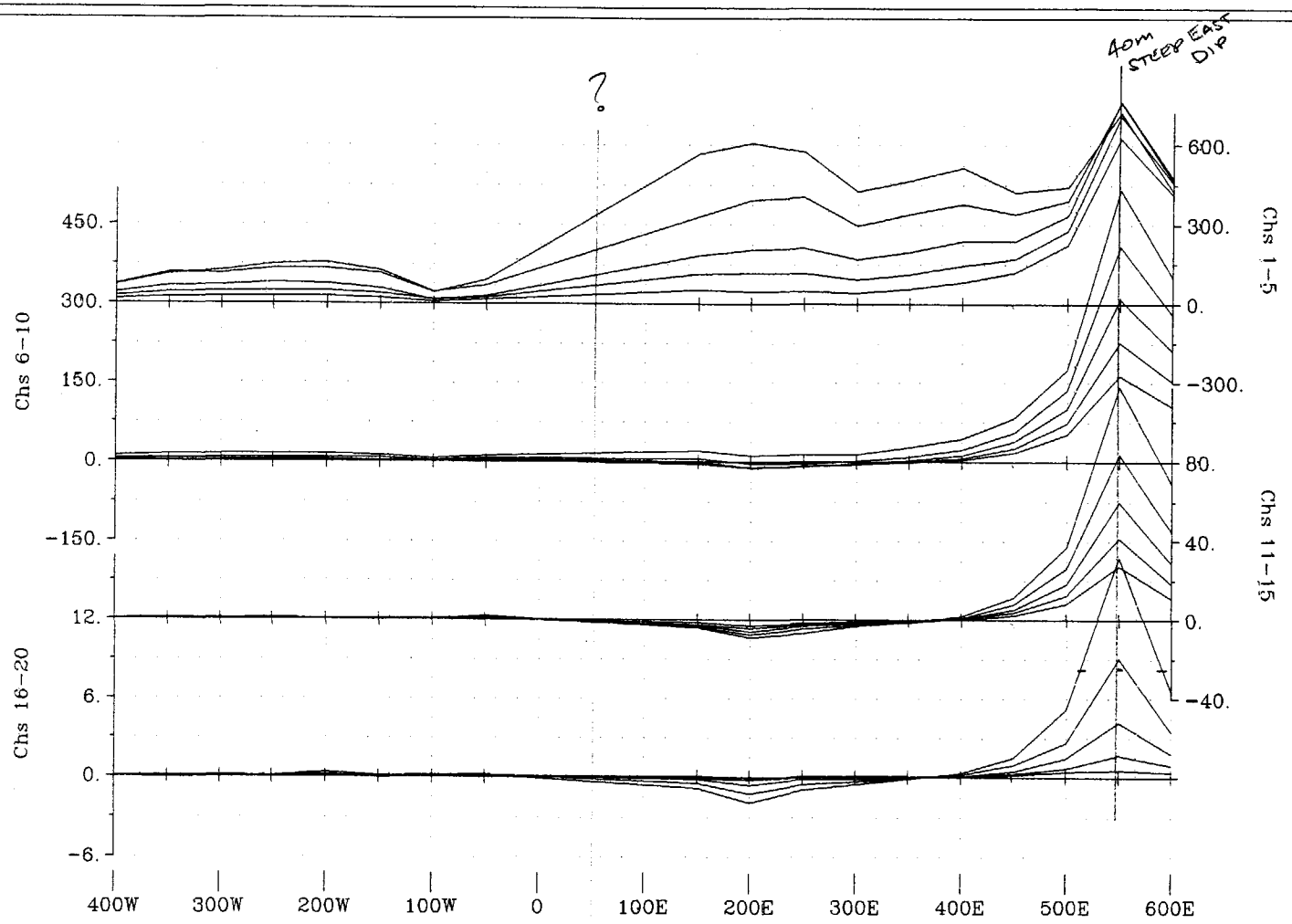
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Z-8+00N



Line 8+00N – X Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

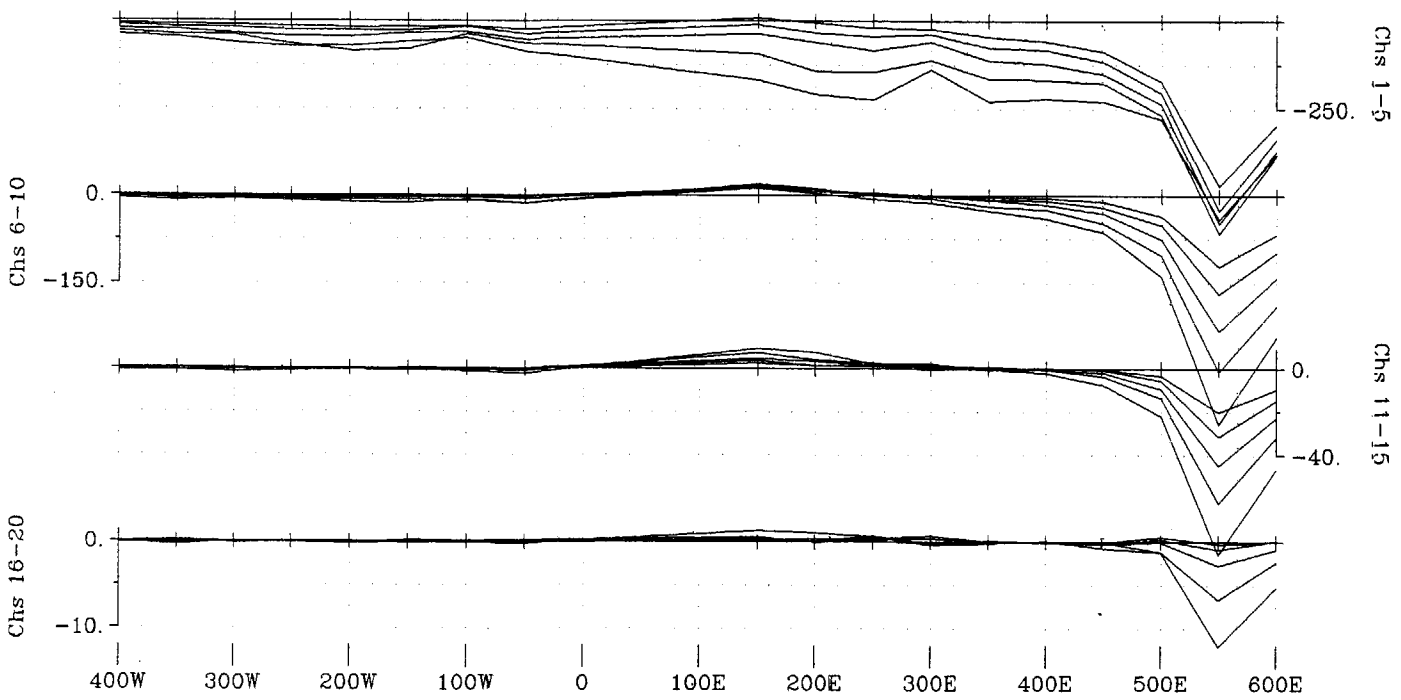
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-X-8+00N



Line 8+00N – Y Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

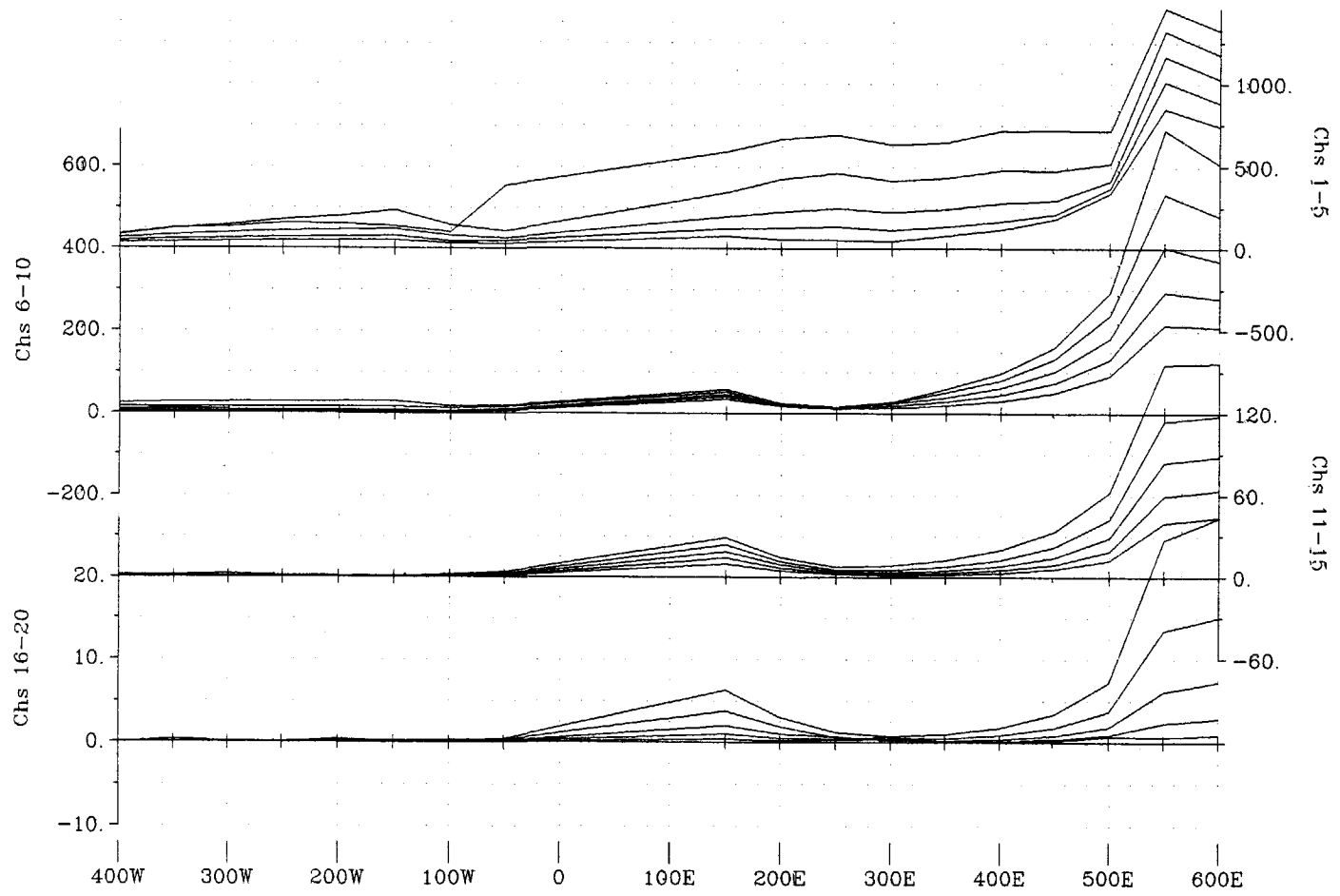
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Y-8+00N



Line 8+00N – Total Field

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

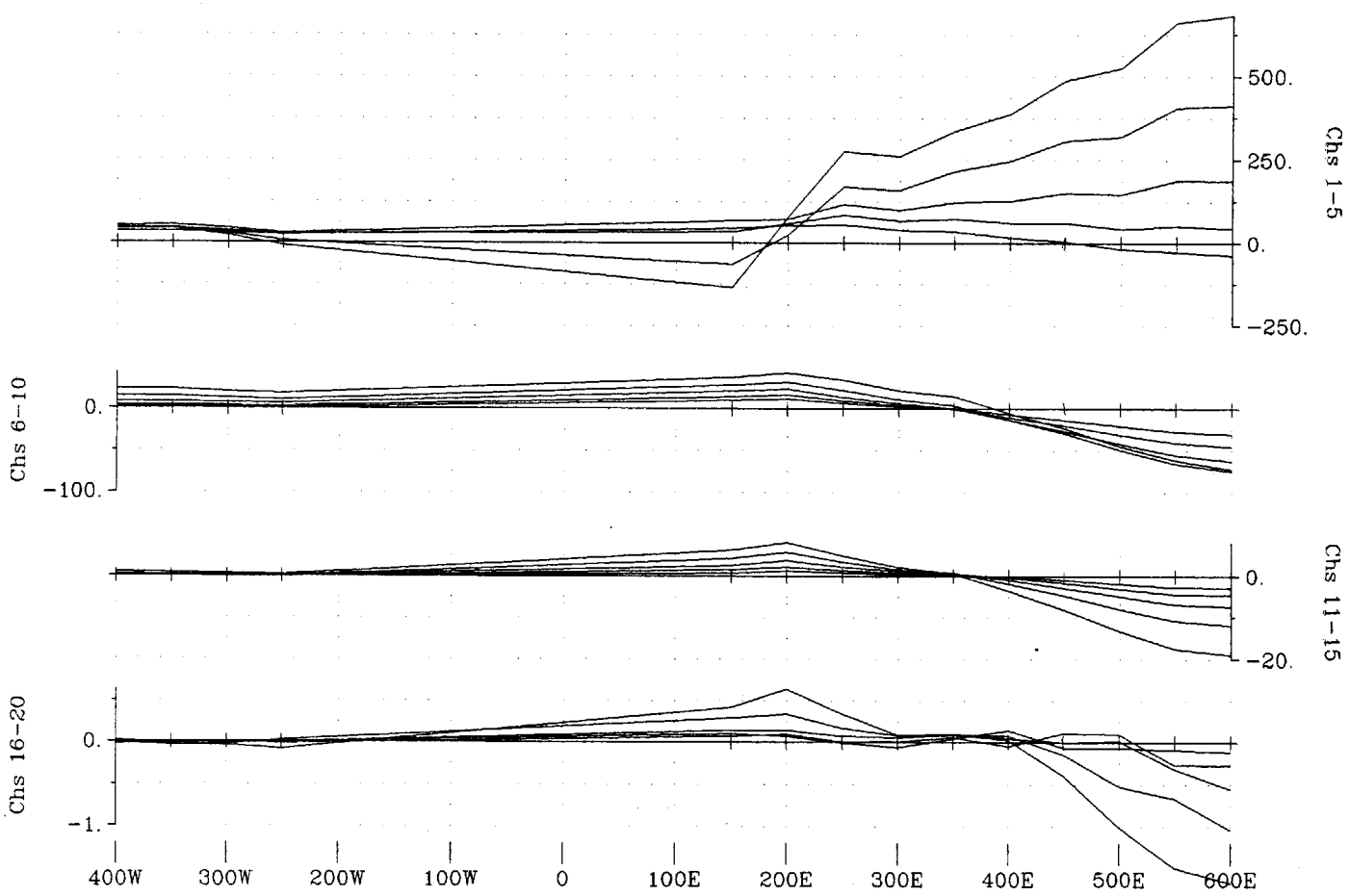
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Asm^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-TF-8+00N



Line 10+00N – Z Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

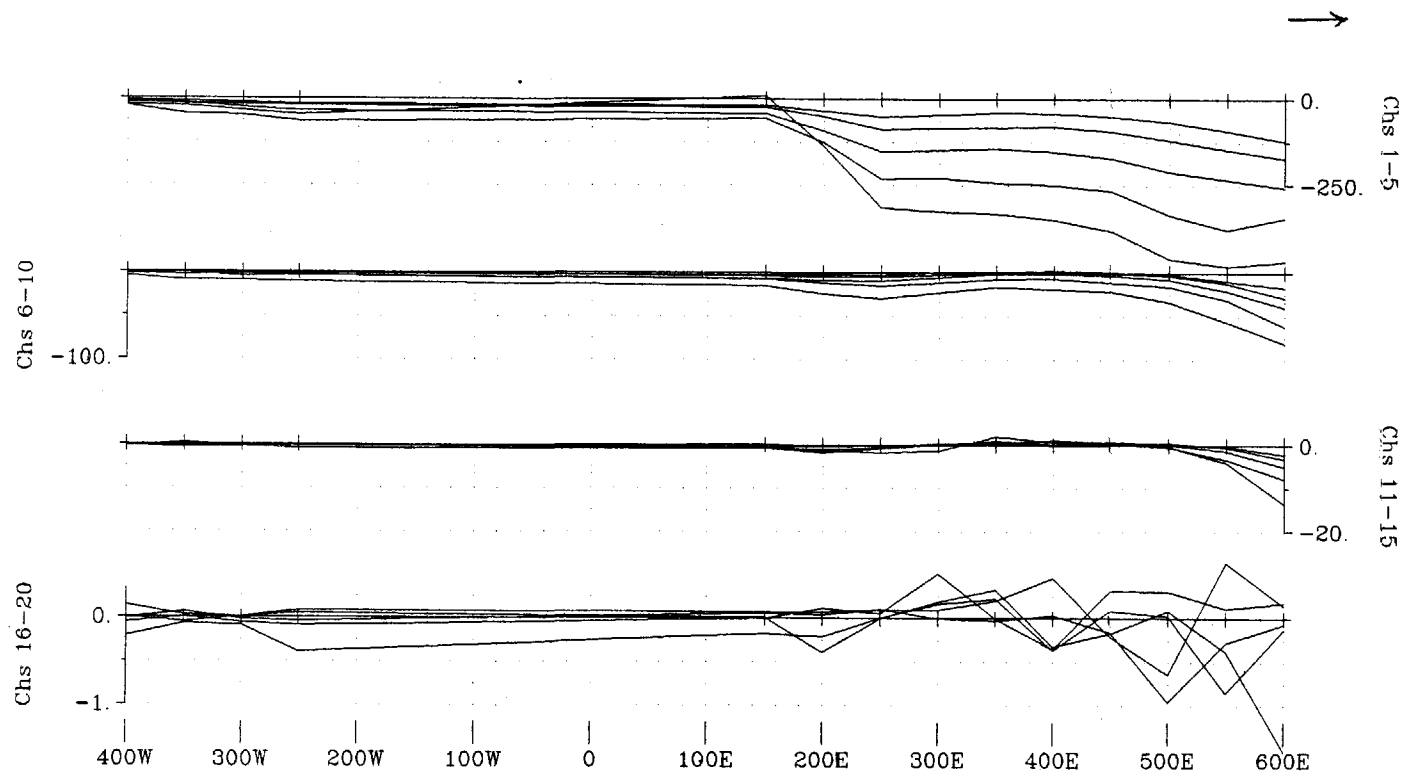
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Asm^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Z-10+00N



Line 10+00N – Y Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

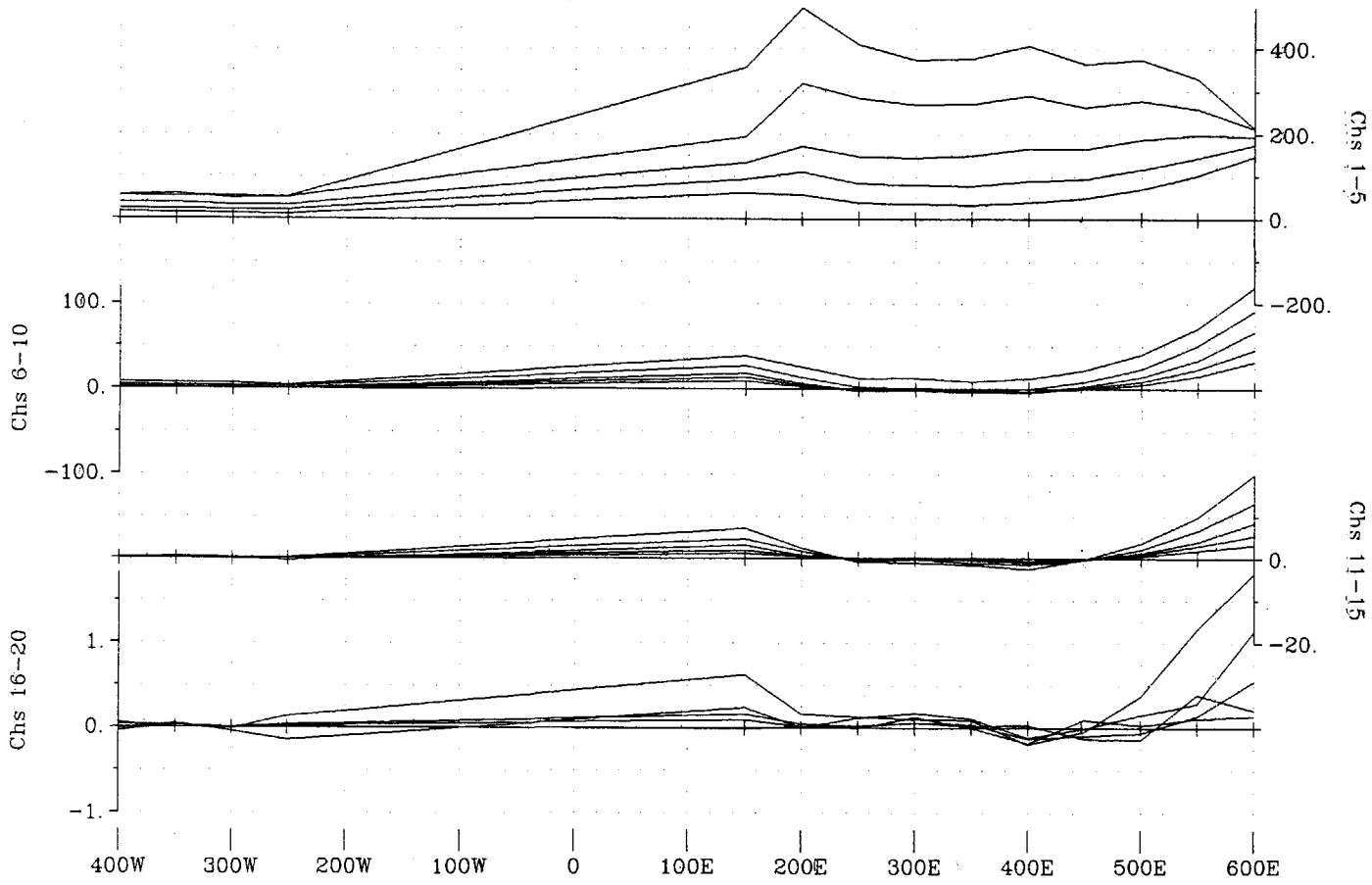
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Y-10+00N



Line 10+00N – X Component

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

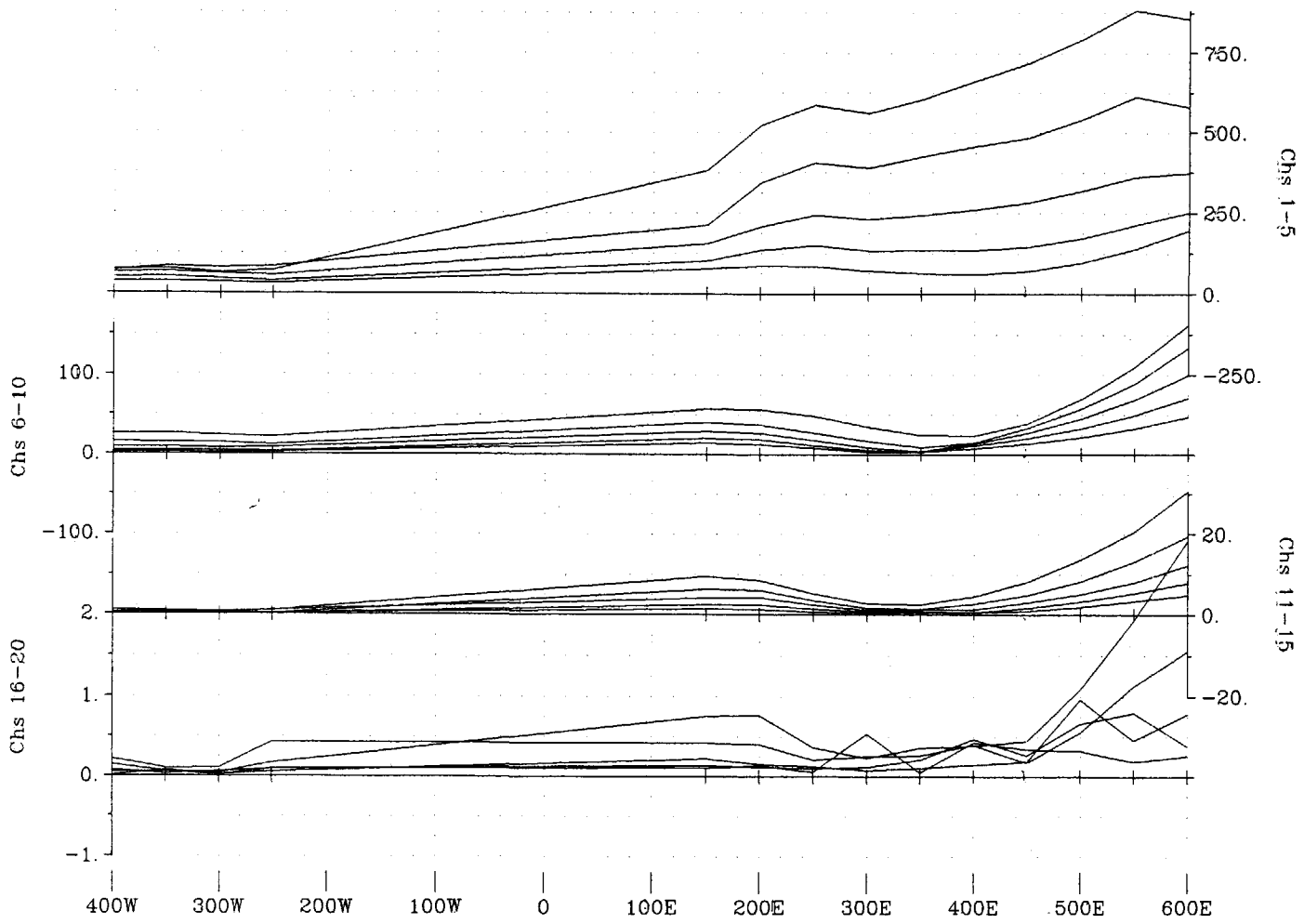
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-X-10+00N



Line 10+00N – Total Field

LOOP 2

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

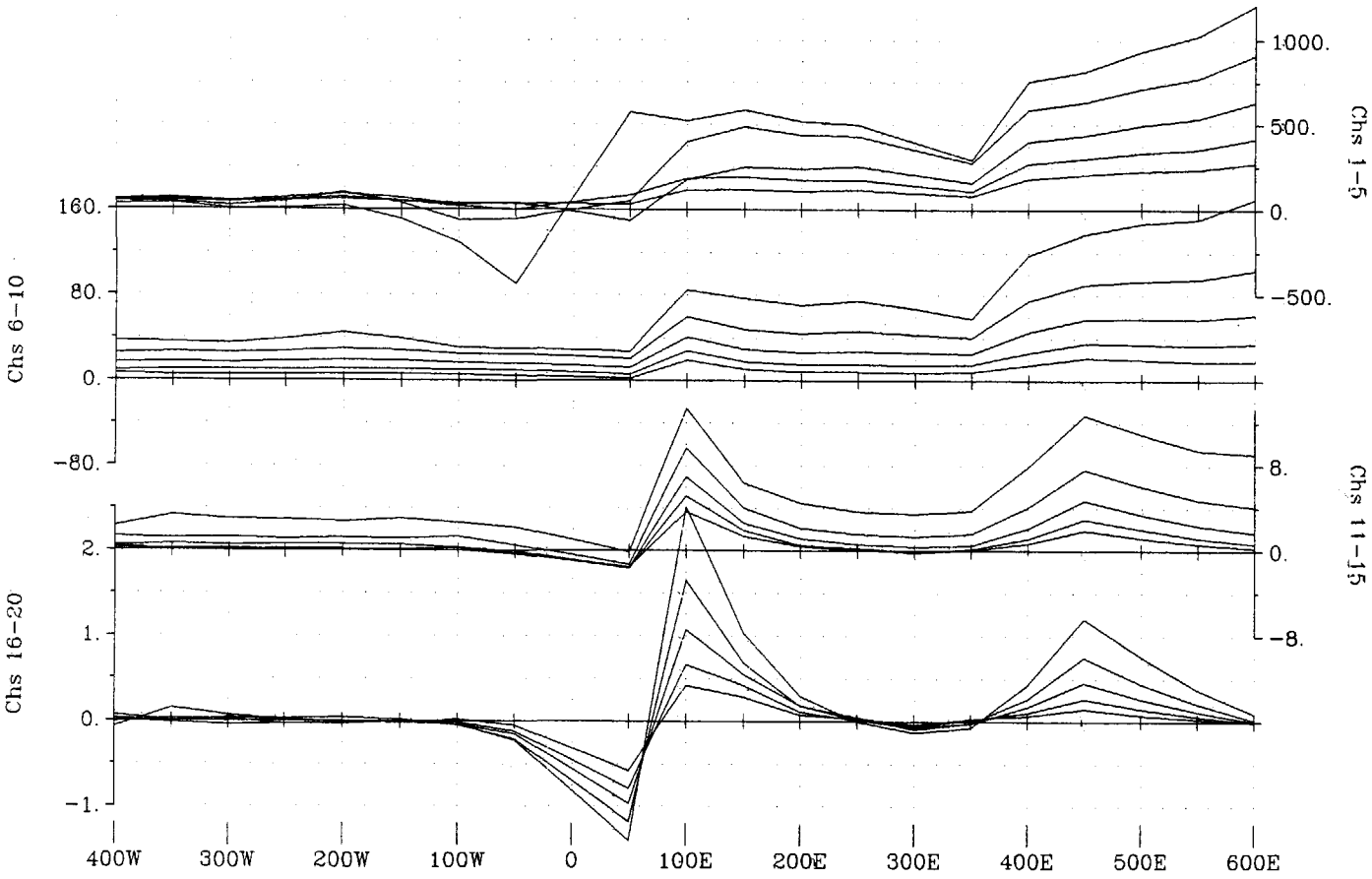
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L0 to L12N & 0+00 to 10+00E
Transmitter Current:	7.5 Amps
Transmitter Turn-Off Time:	335 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz – positive up
	Hx – positive west
	Hy – positive south
Survey Date:	Sept. 24, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-TF-10+00N



Line 12+00N – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

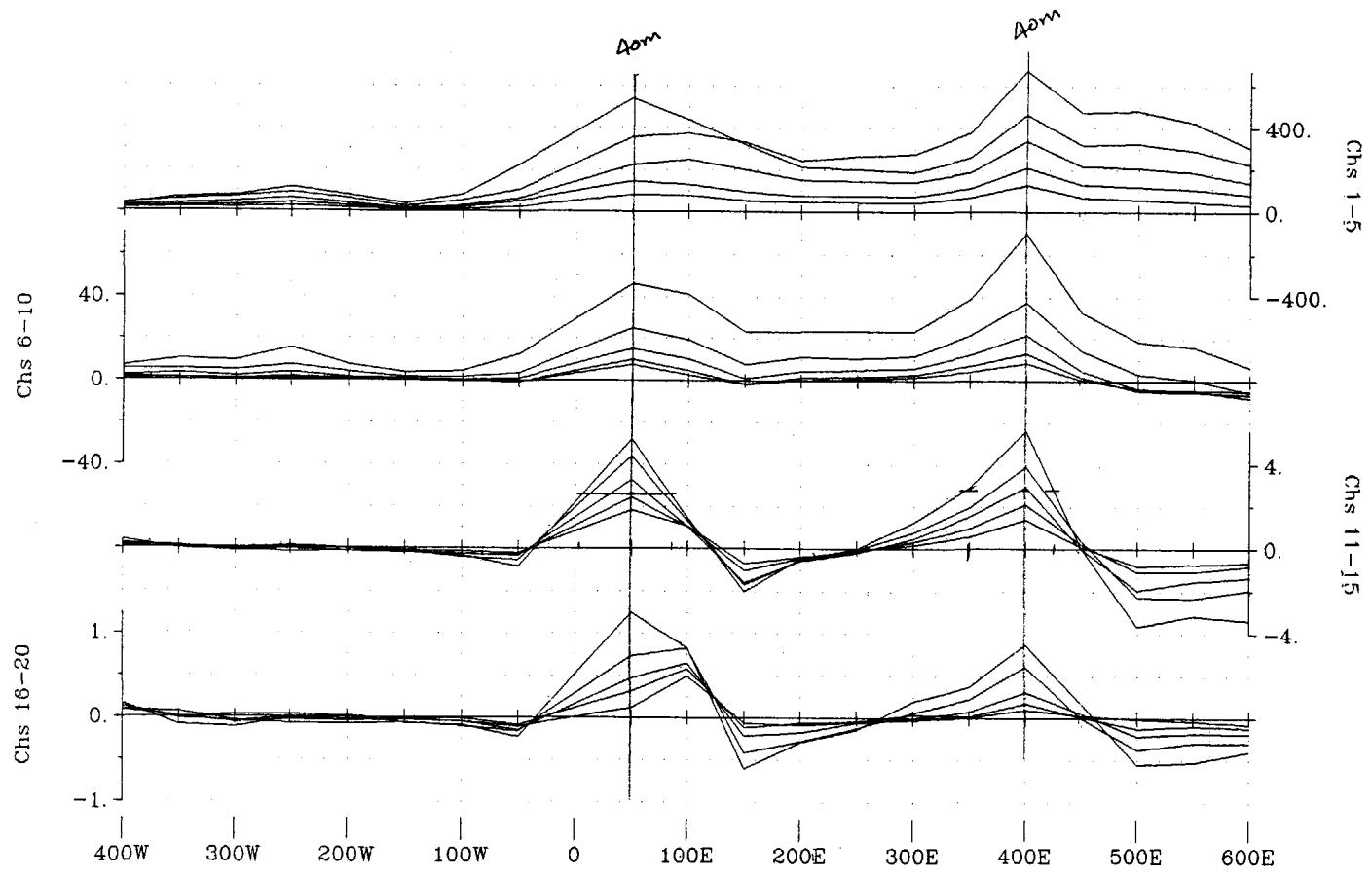
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-12+00N



Line 12+00N – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

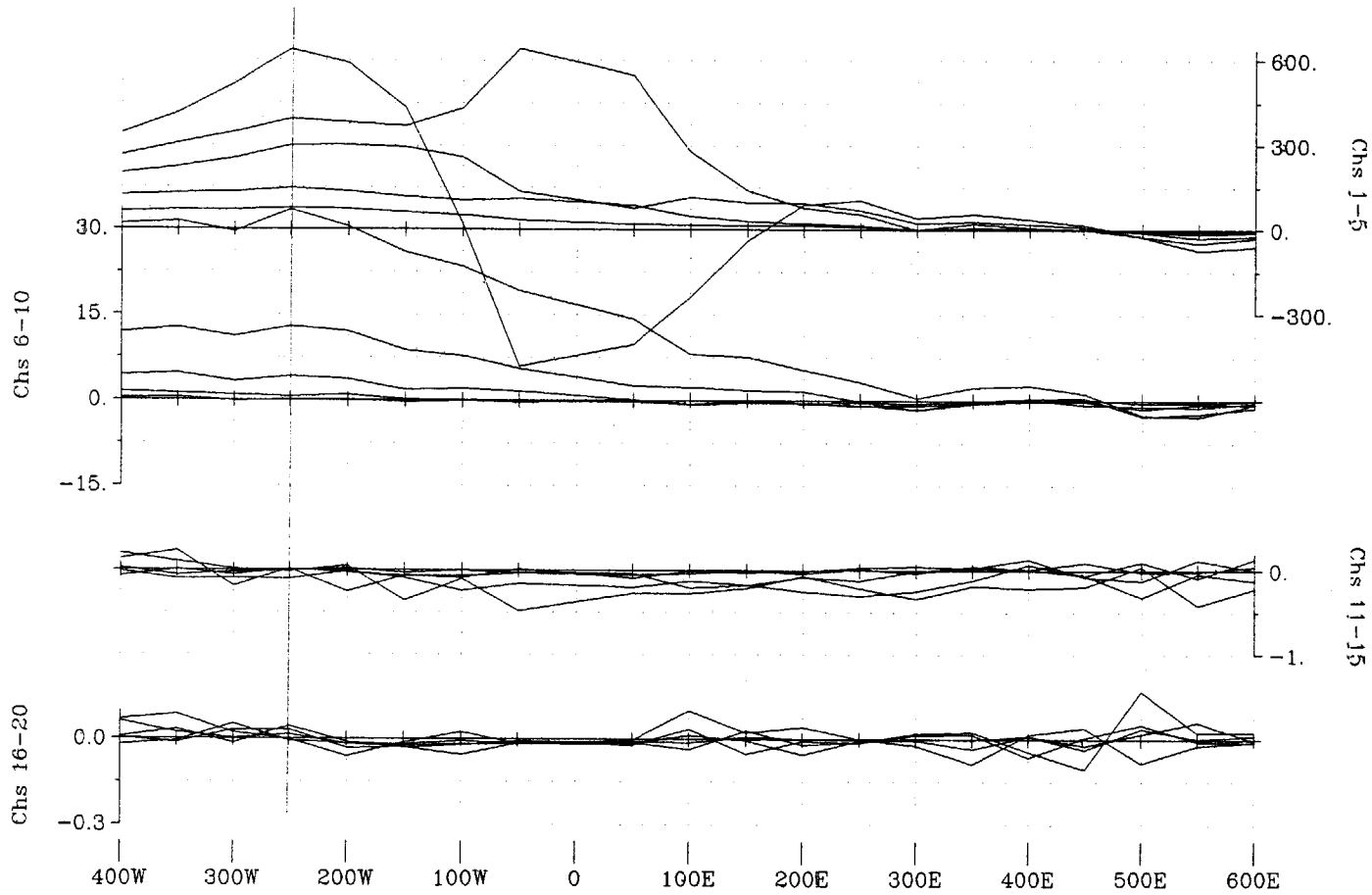
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-12+00N



Line 24+00N – X Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

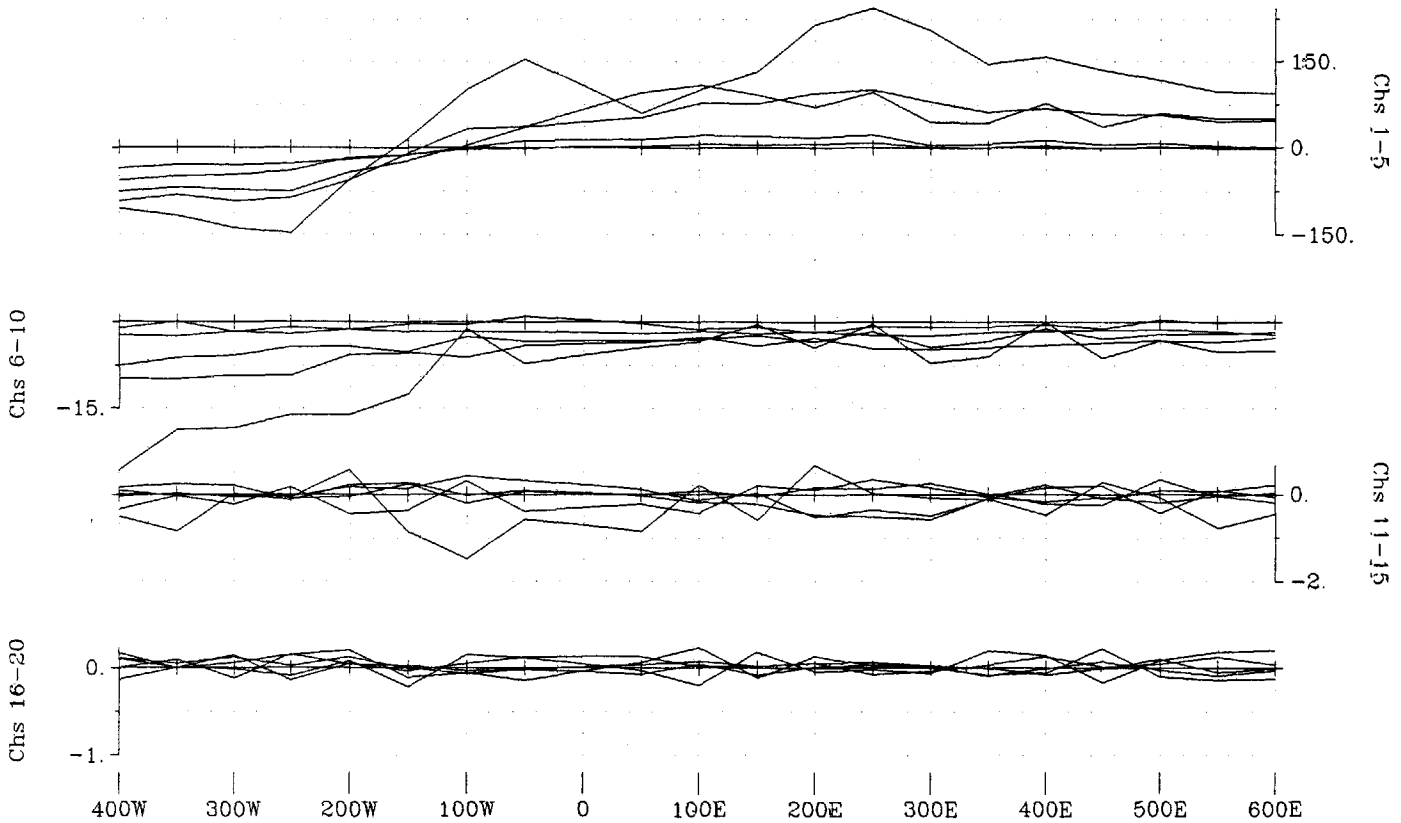
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-24+00N



Line 24+00N – Y Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

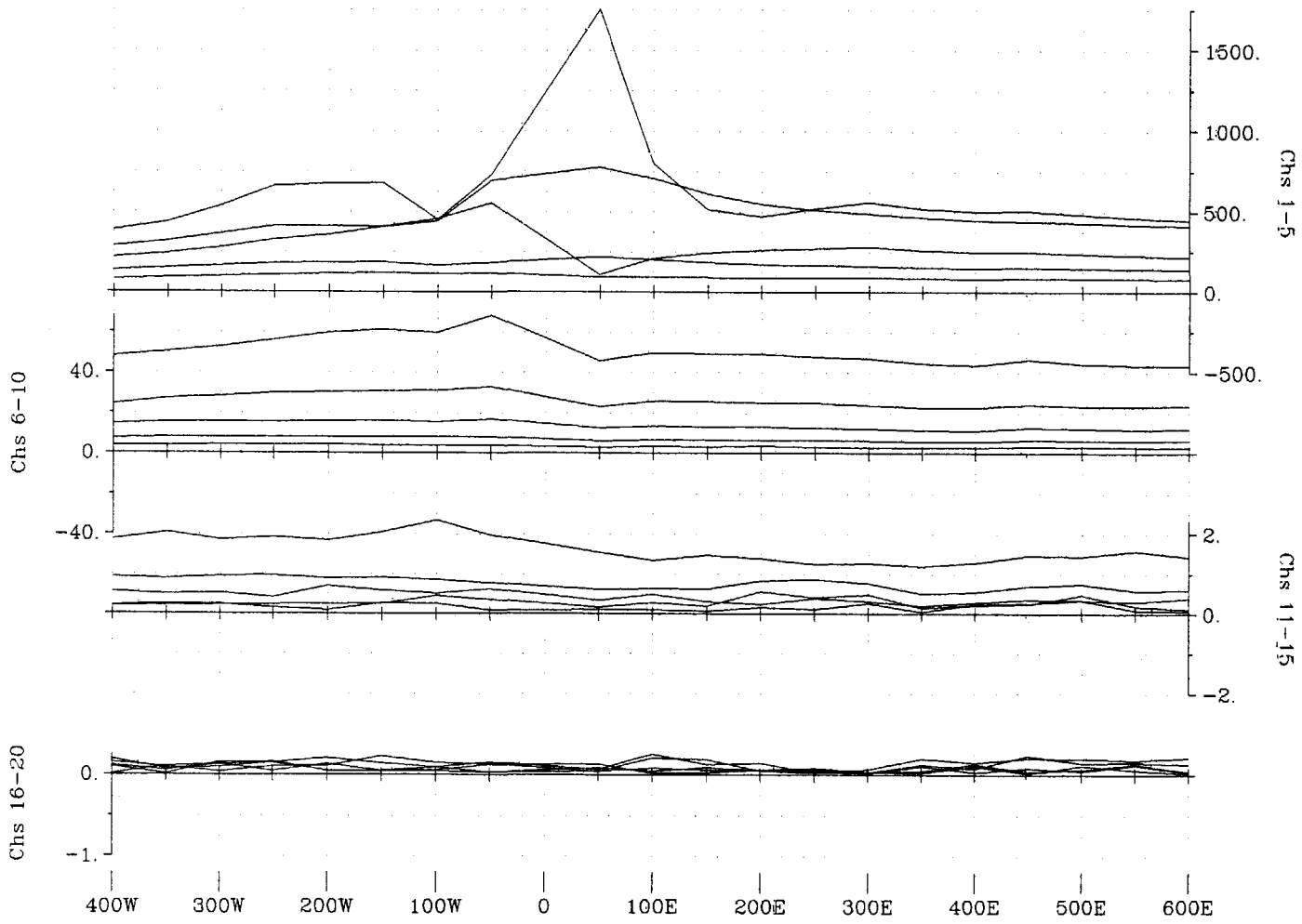
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-24+00N



Line 24+00N – Total Field

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

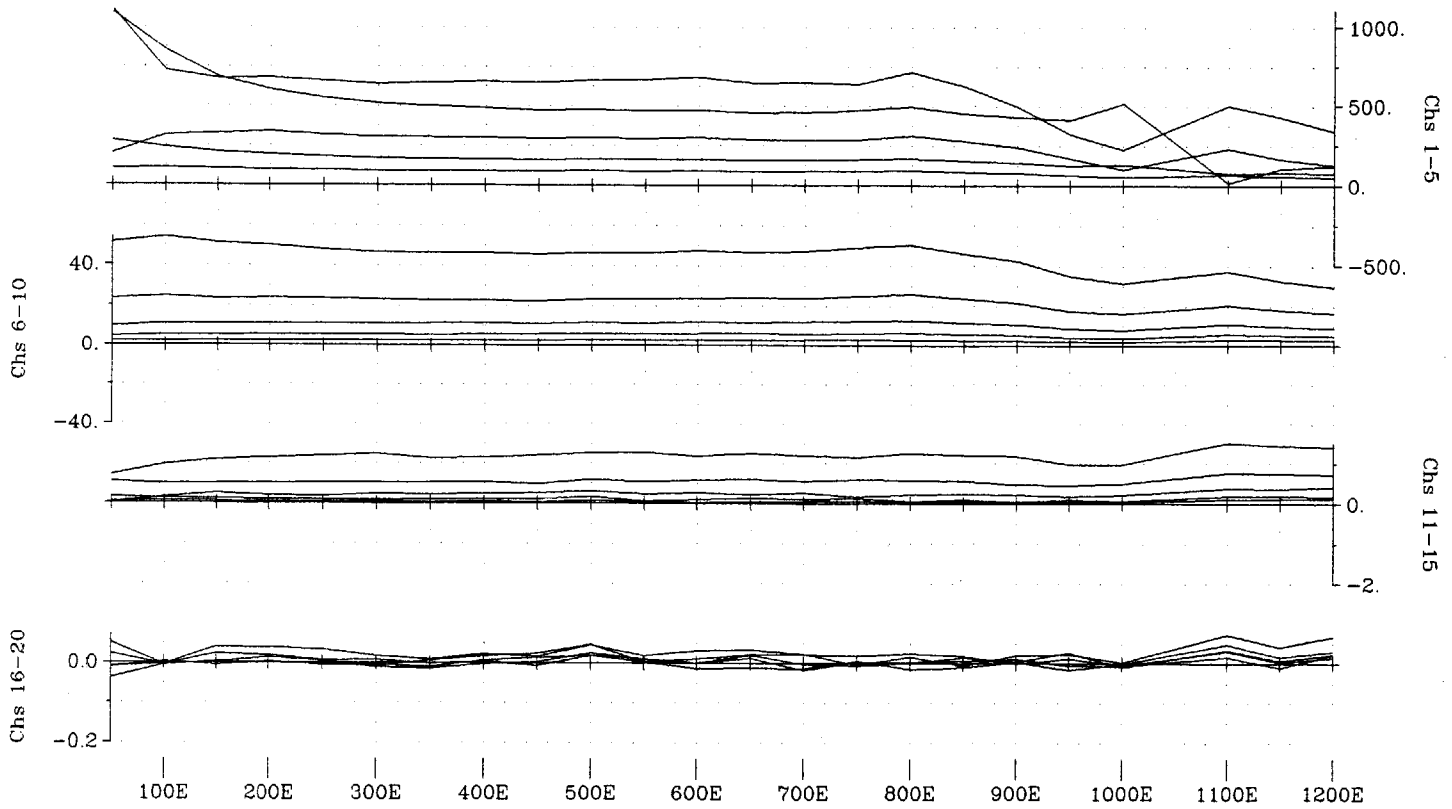
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-24+00N



Line 26+00N - Z Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

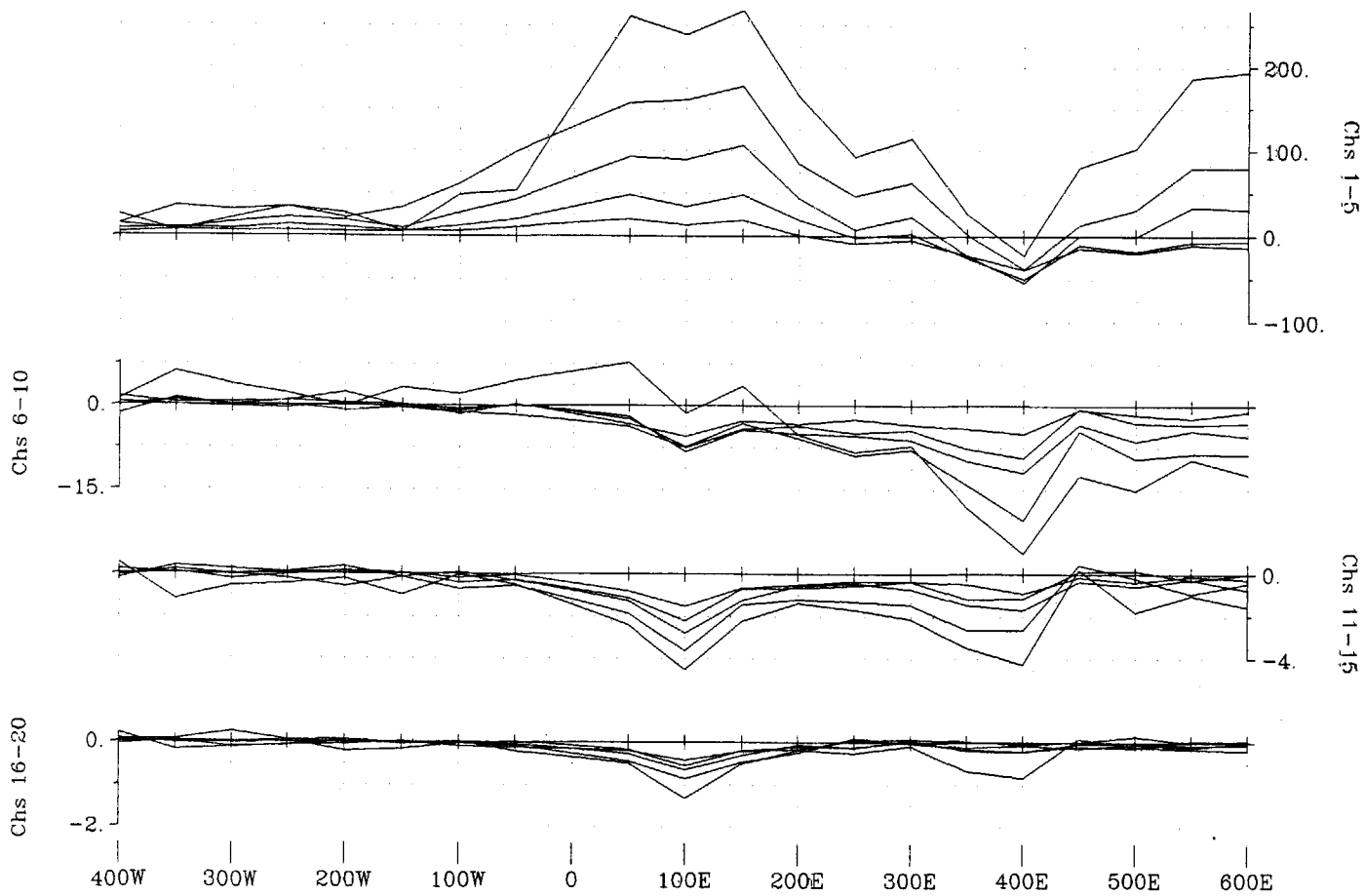
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-26+00N



Line 12+00N – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

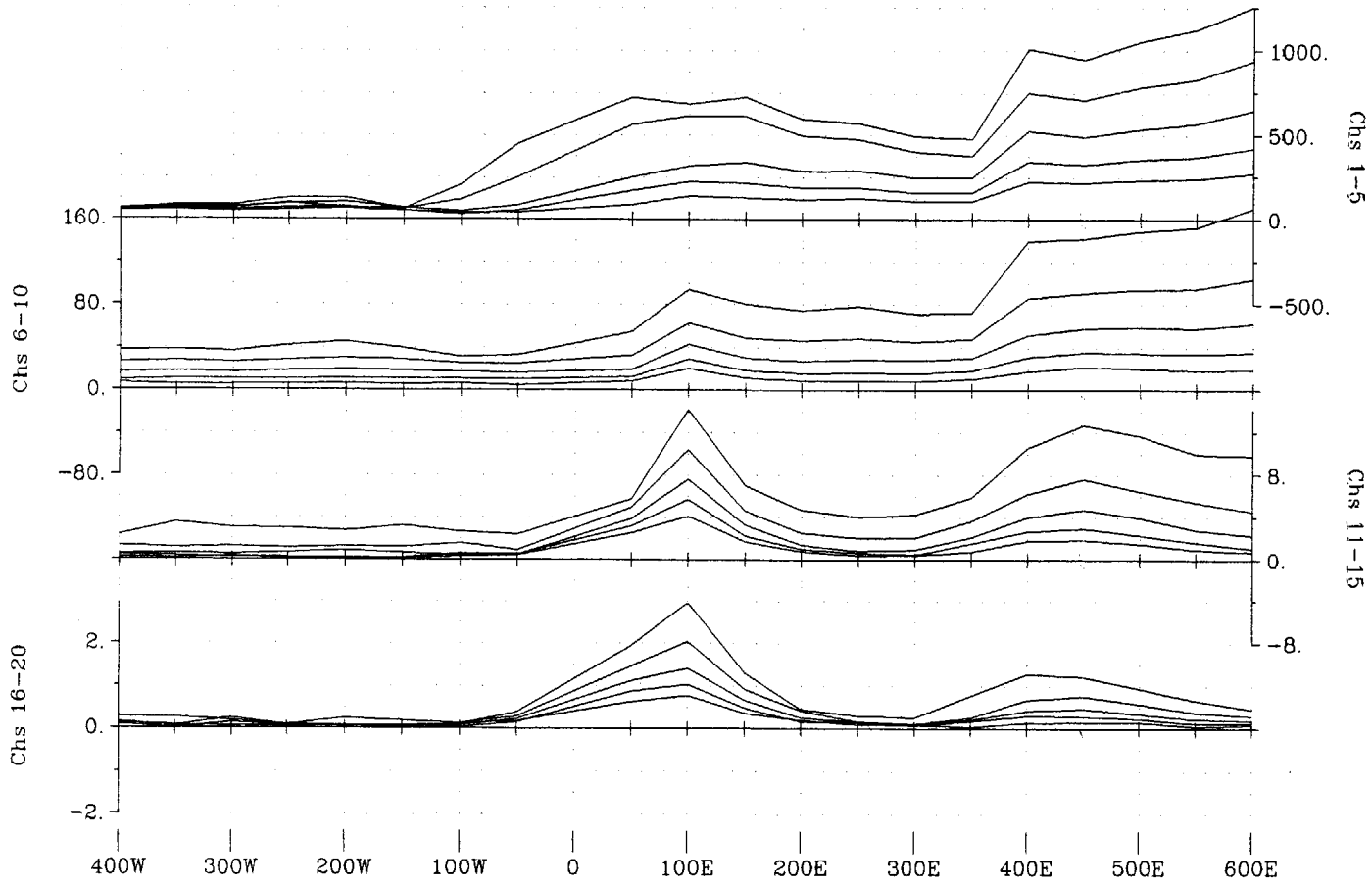
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-12+00N



Line 12+00N – Total Field

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

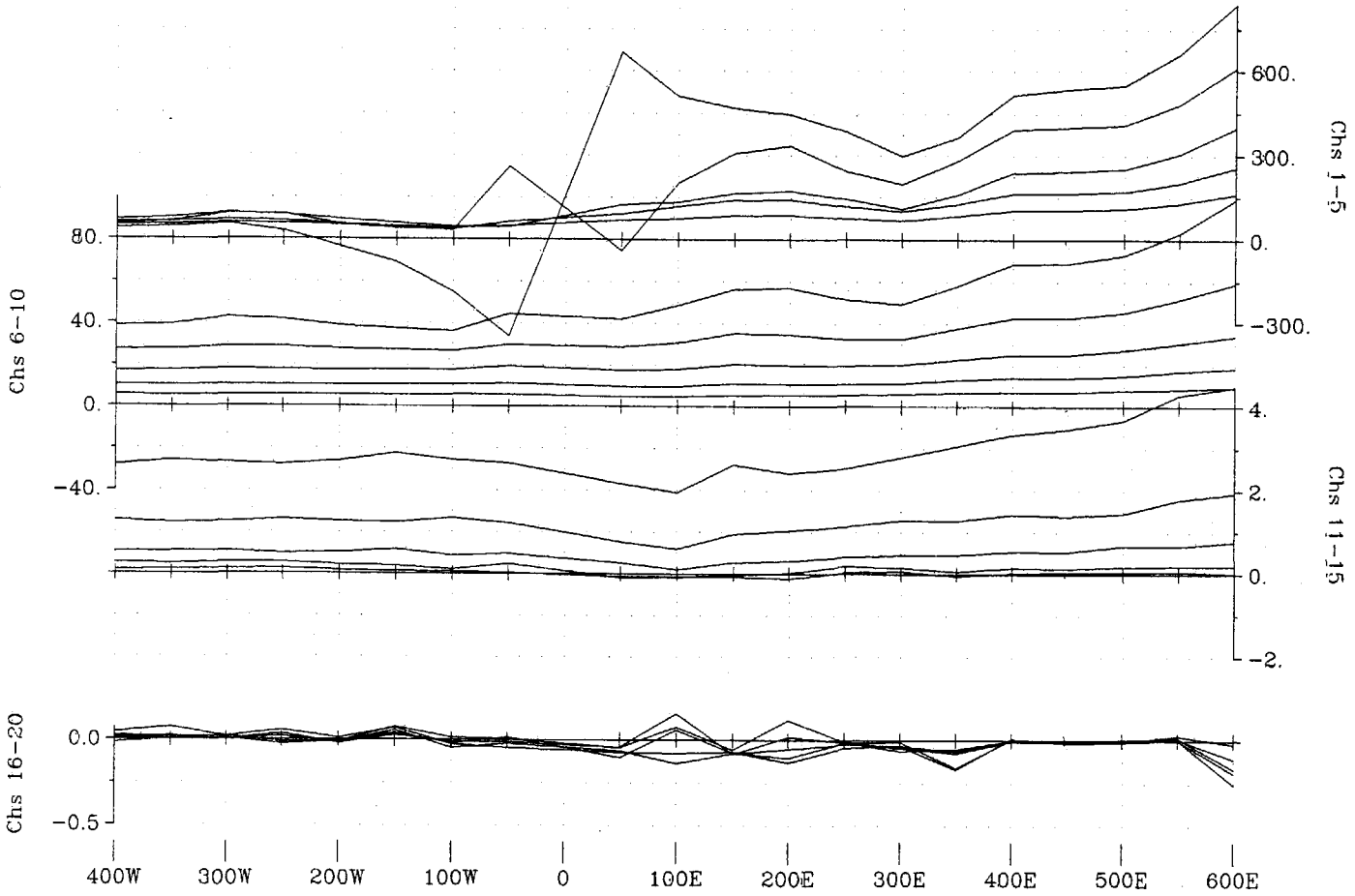
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-12+00N



Line 14+00N – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

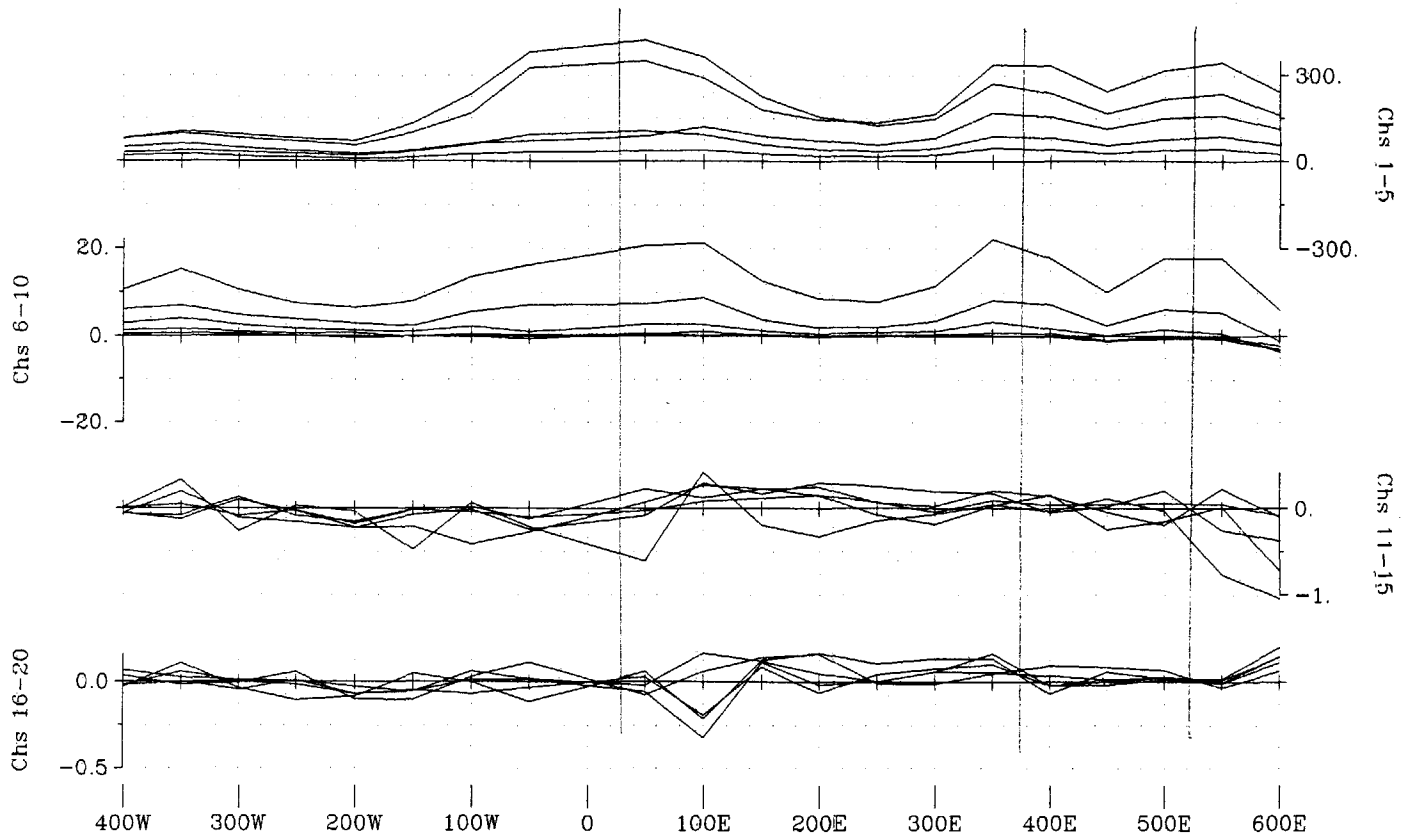
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-14+00N



Line 14+00N – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

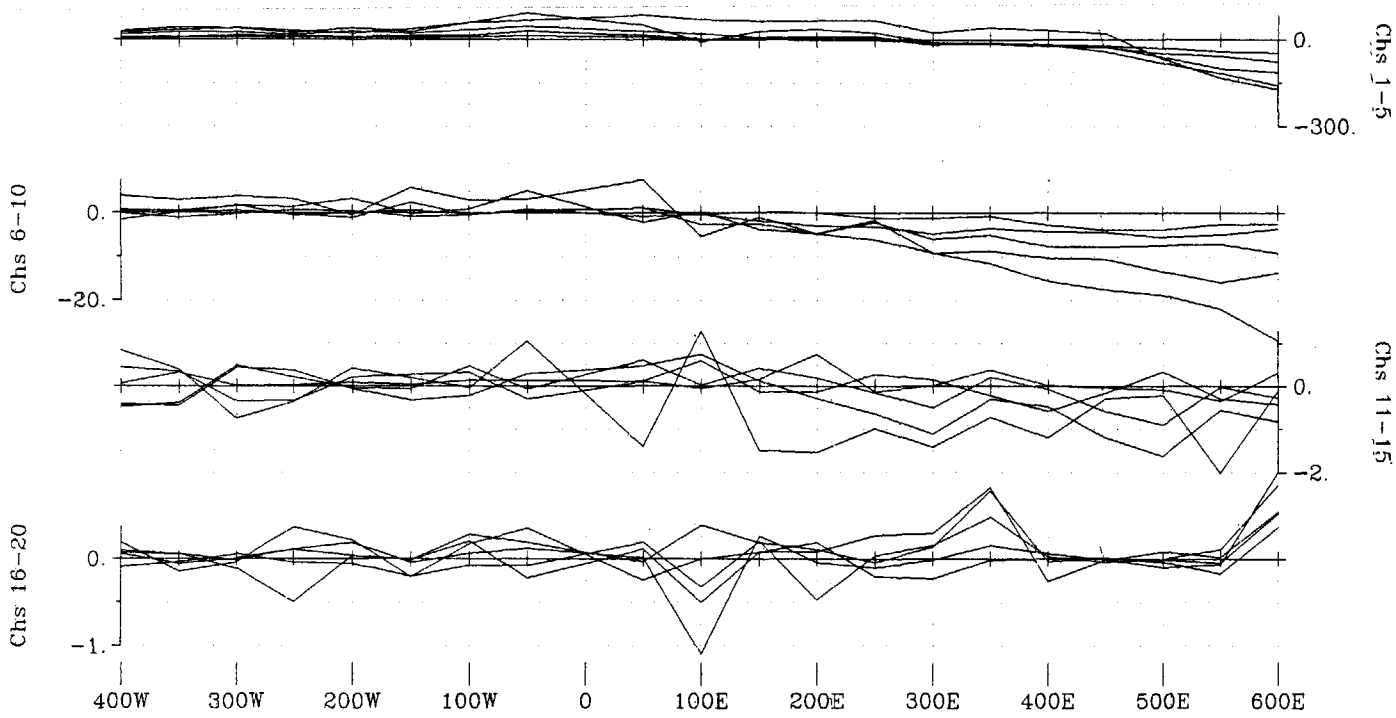
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-14+00N



Line 14+00N – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

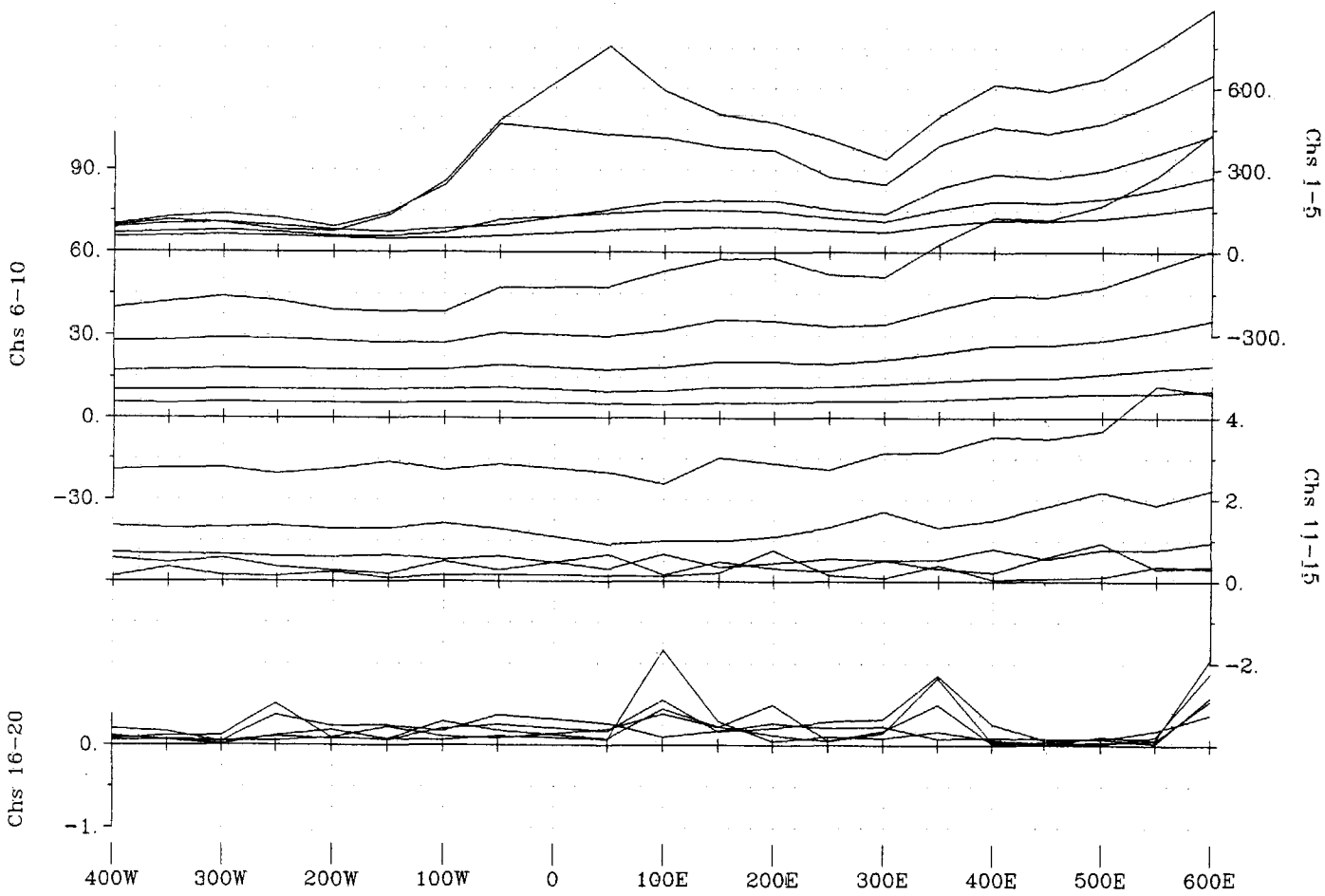
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-14+00N



Line 14+00N – Total Field

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

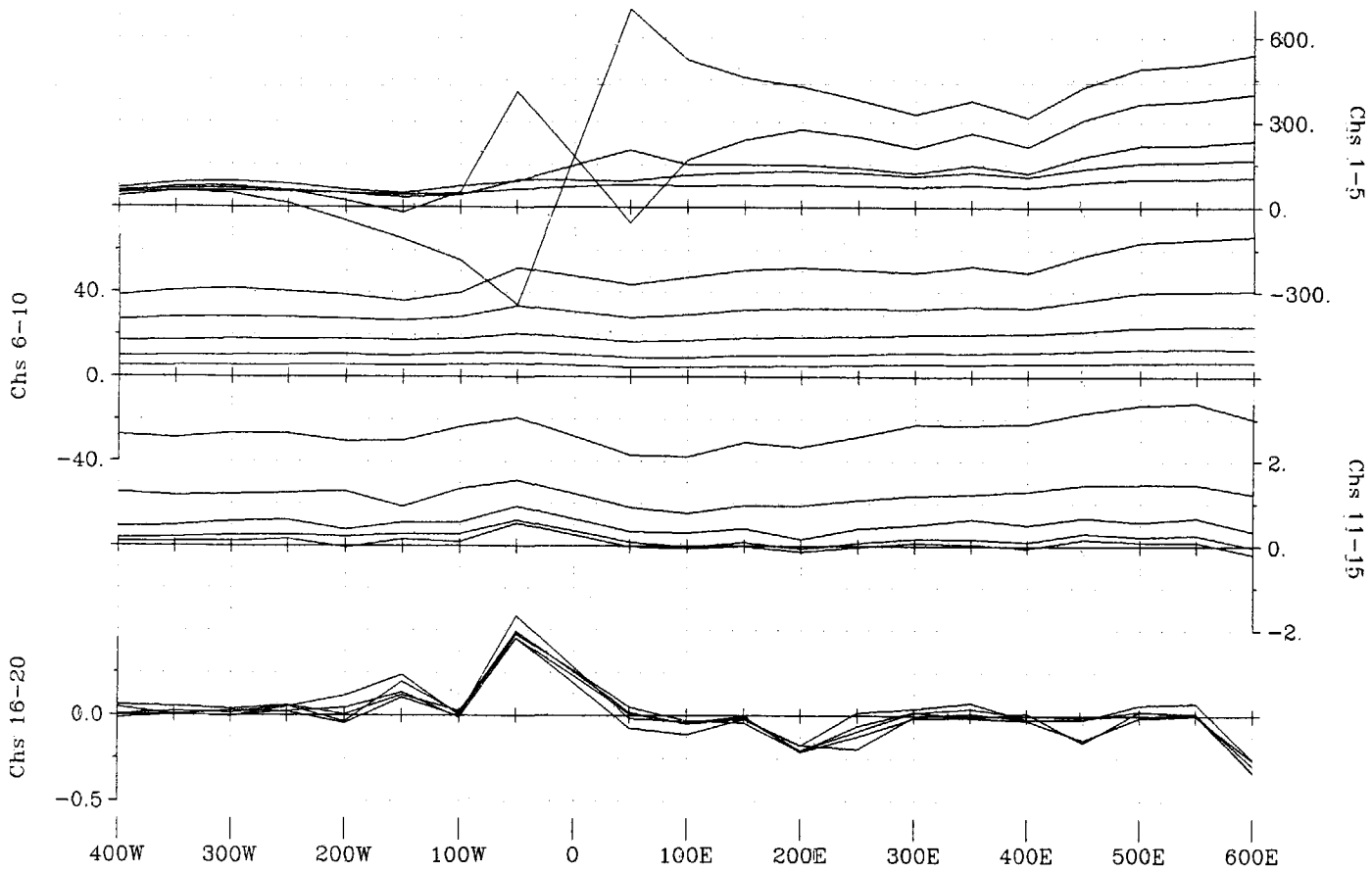
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A-m^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-14+00N



Line 16+00N – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

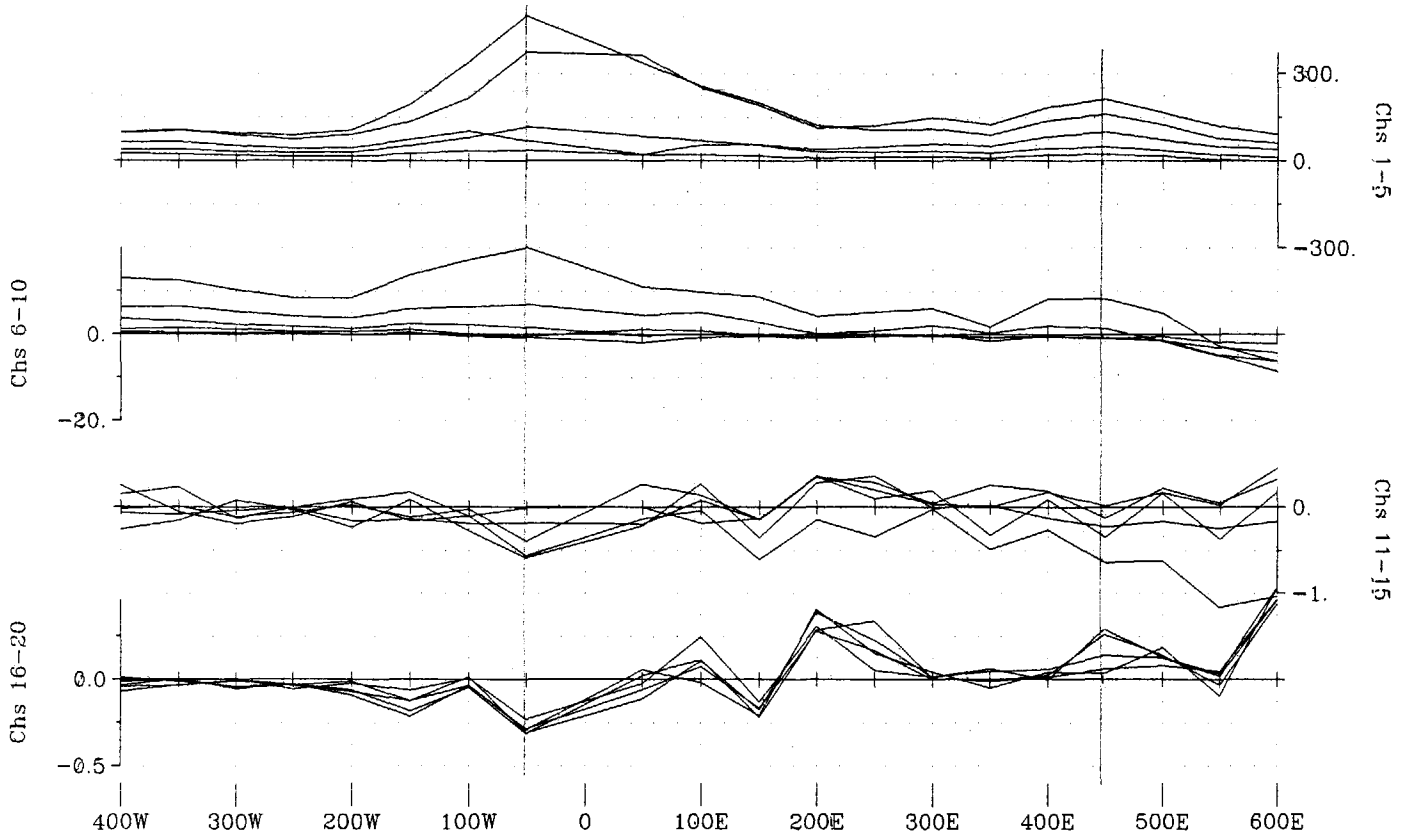
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-16+00N



Line 16+00N – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

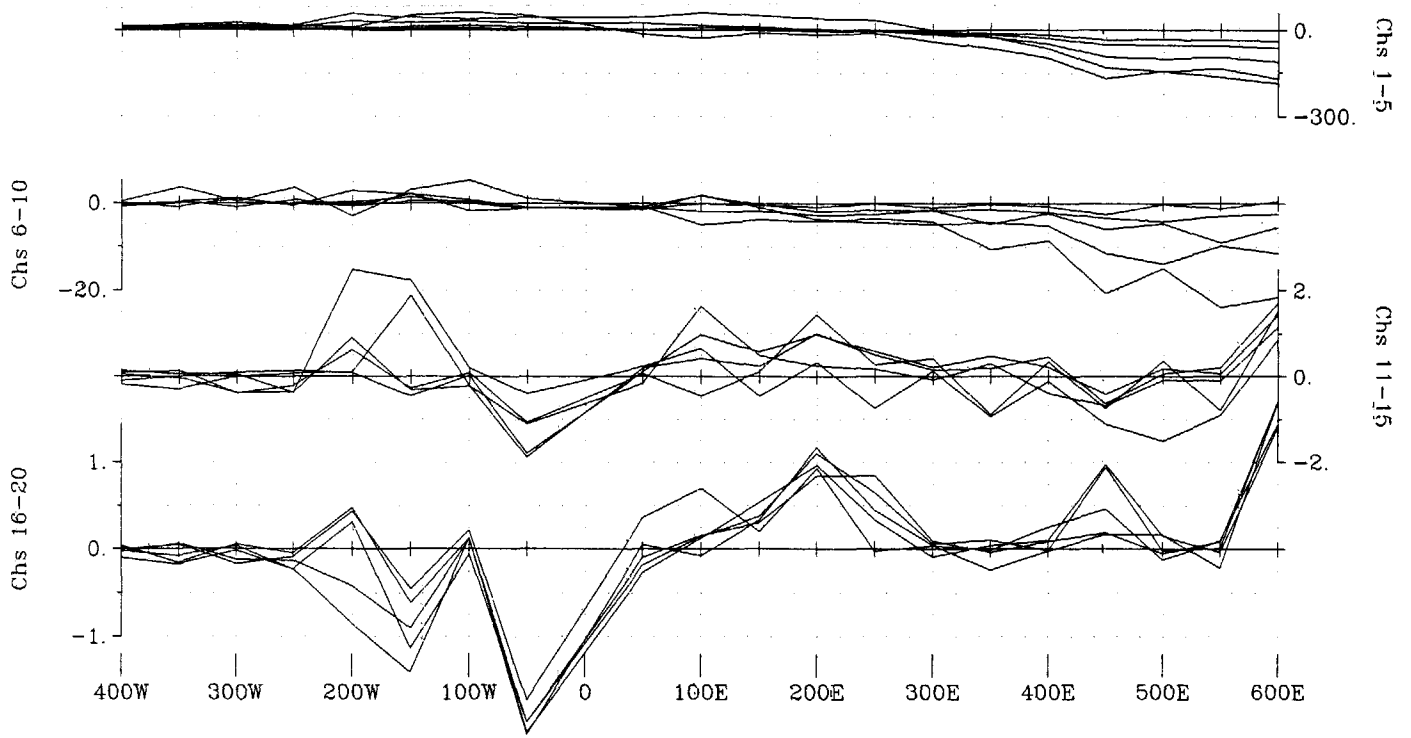
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-16+00N



Line 16+00N – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

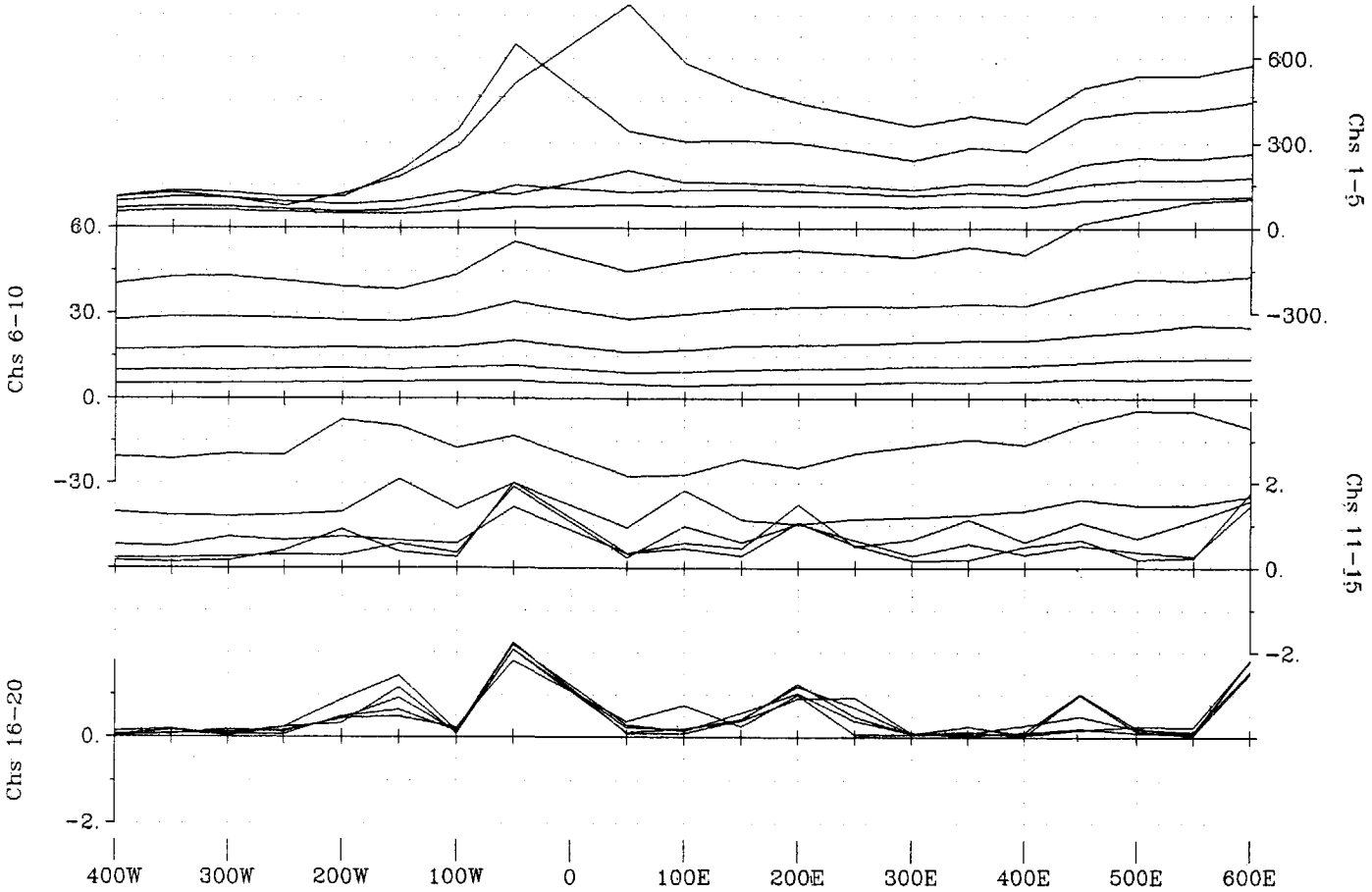
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-16+00N



Line 16+00N – Total Field

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

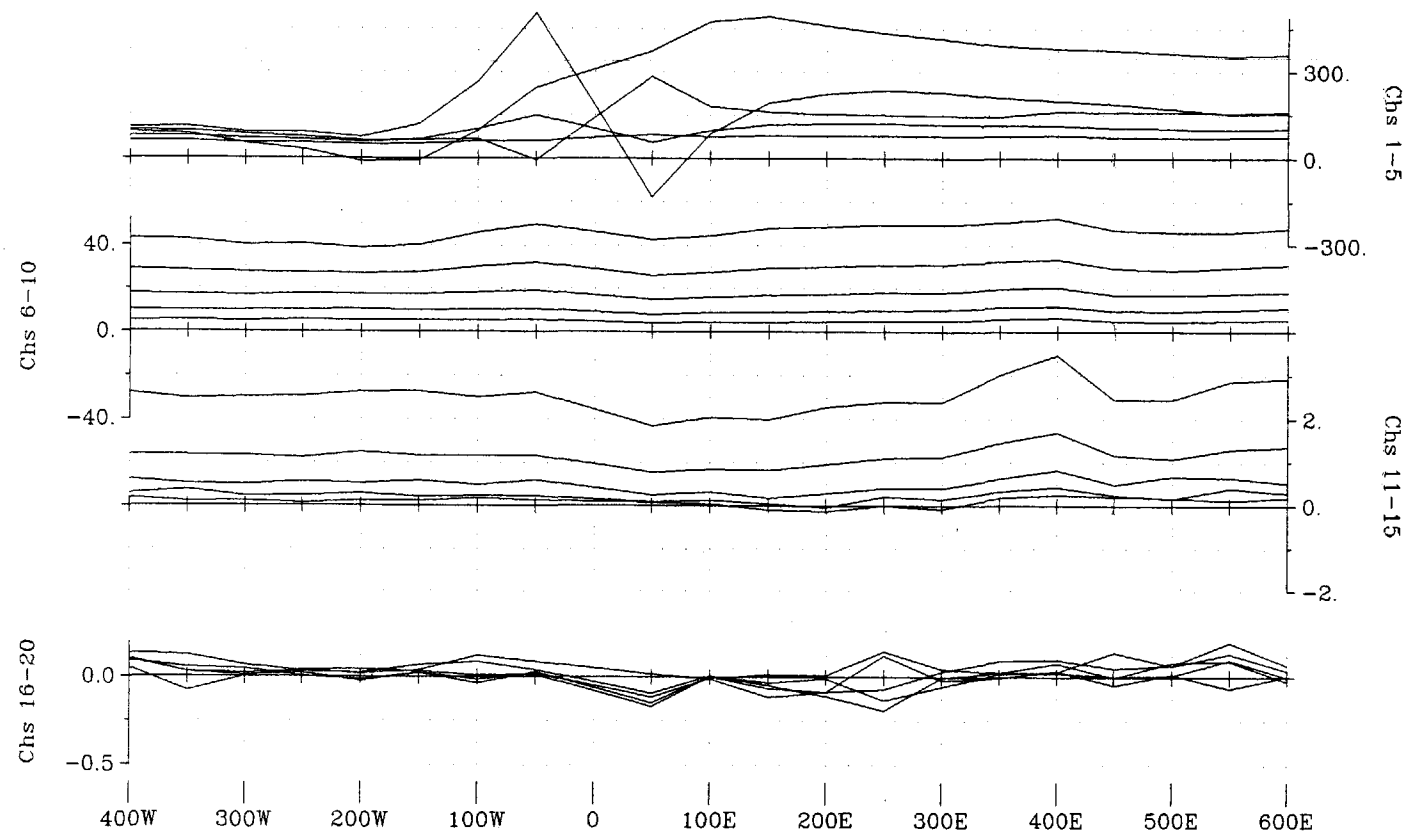
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-16+00N



Line 18+00N – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

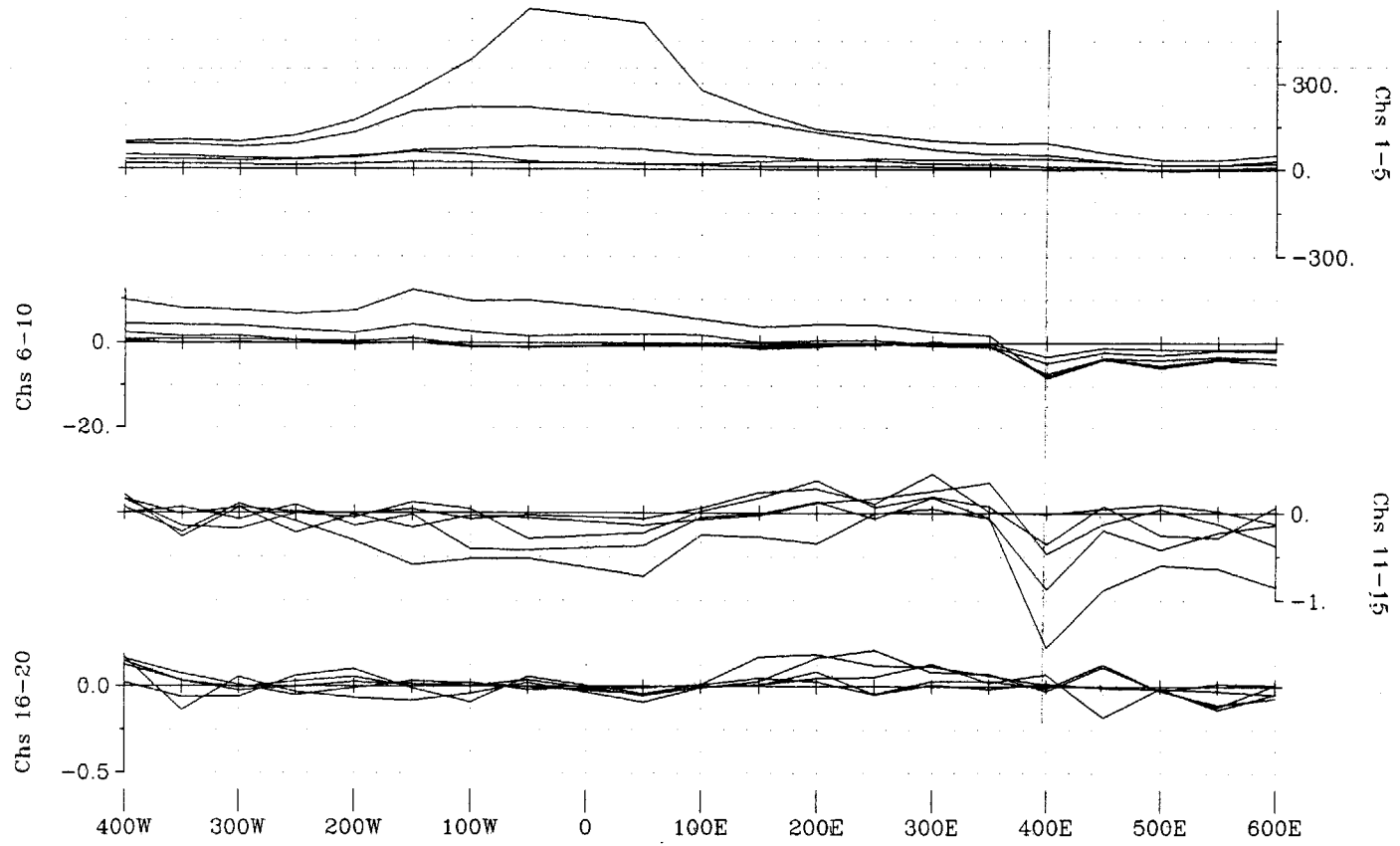
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-18+00N



Line 18+00N – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

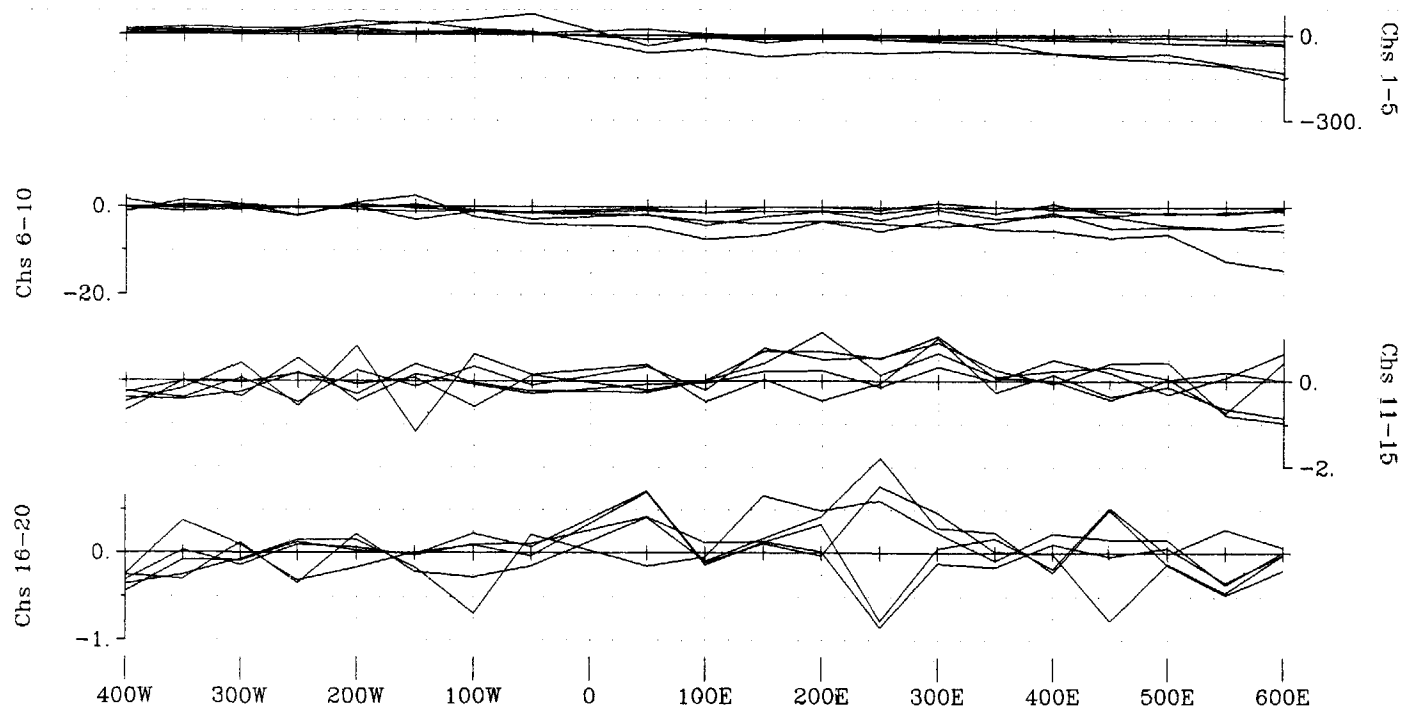
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-18+00N



Line 18+00N – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

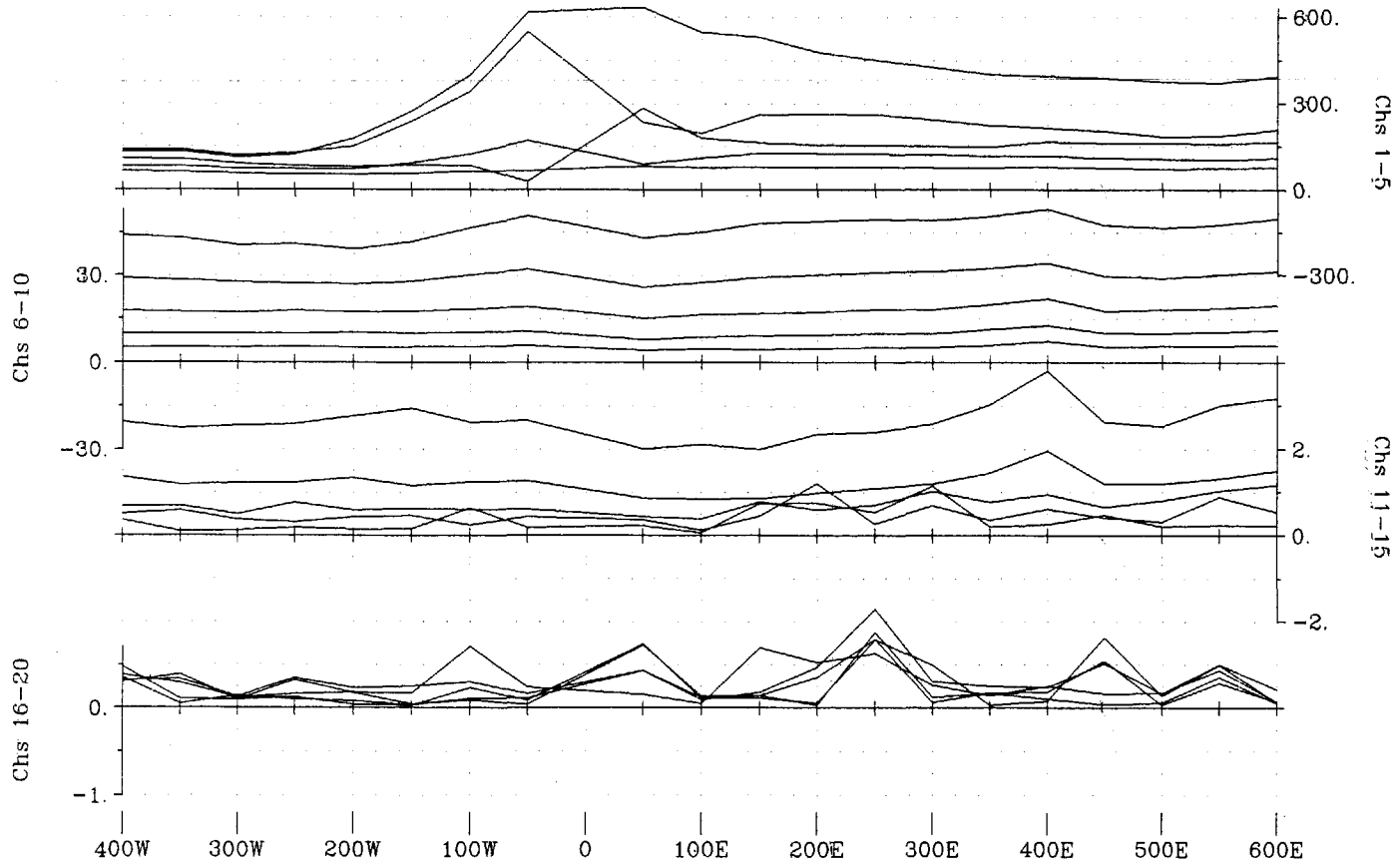
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-18+00N



Line 18+00N – Total Field

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

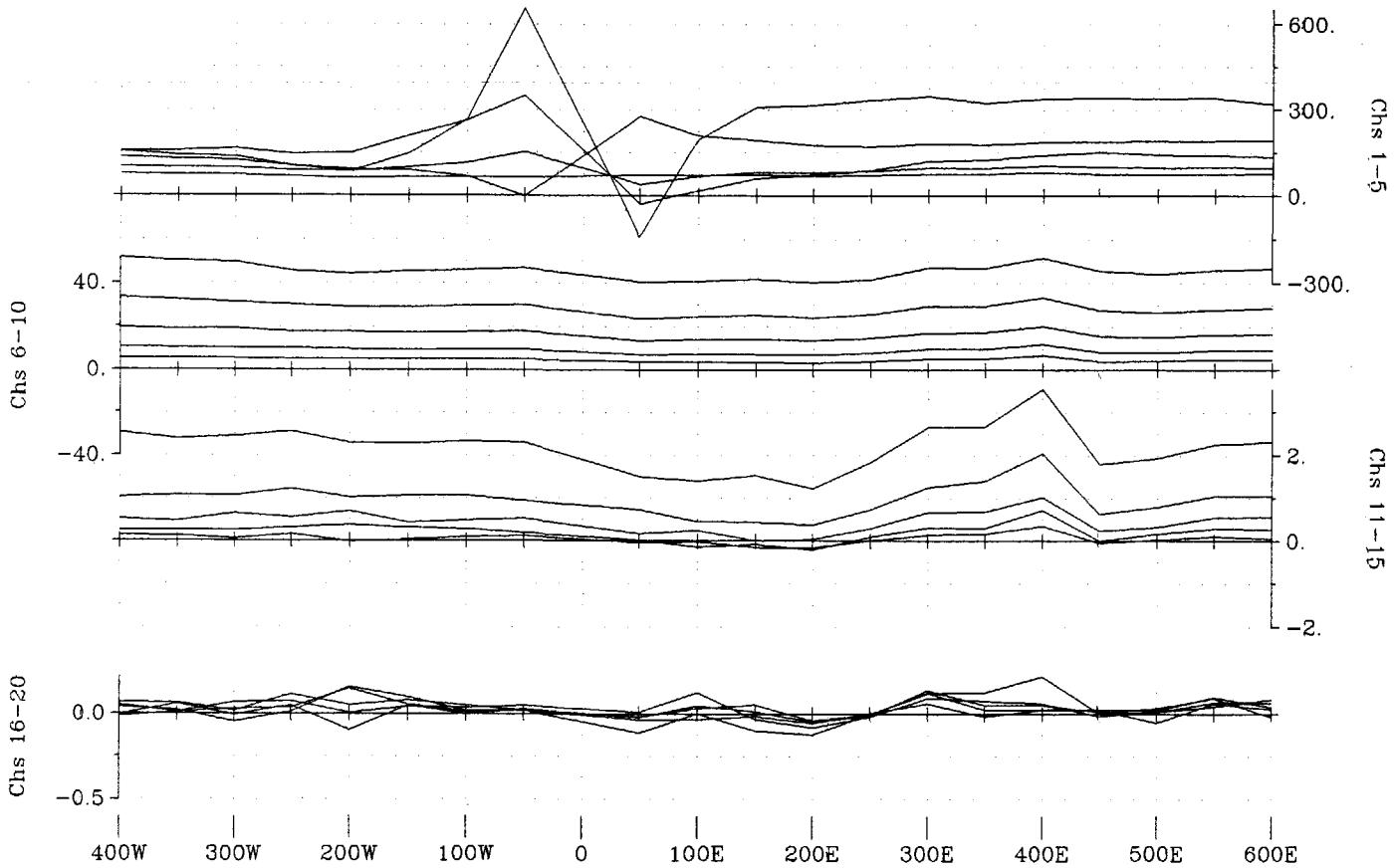
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-18+00N



Line 20+00N – Z Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

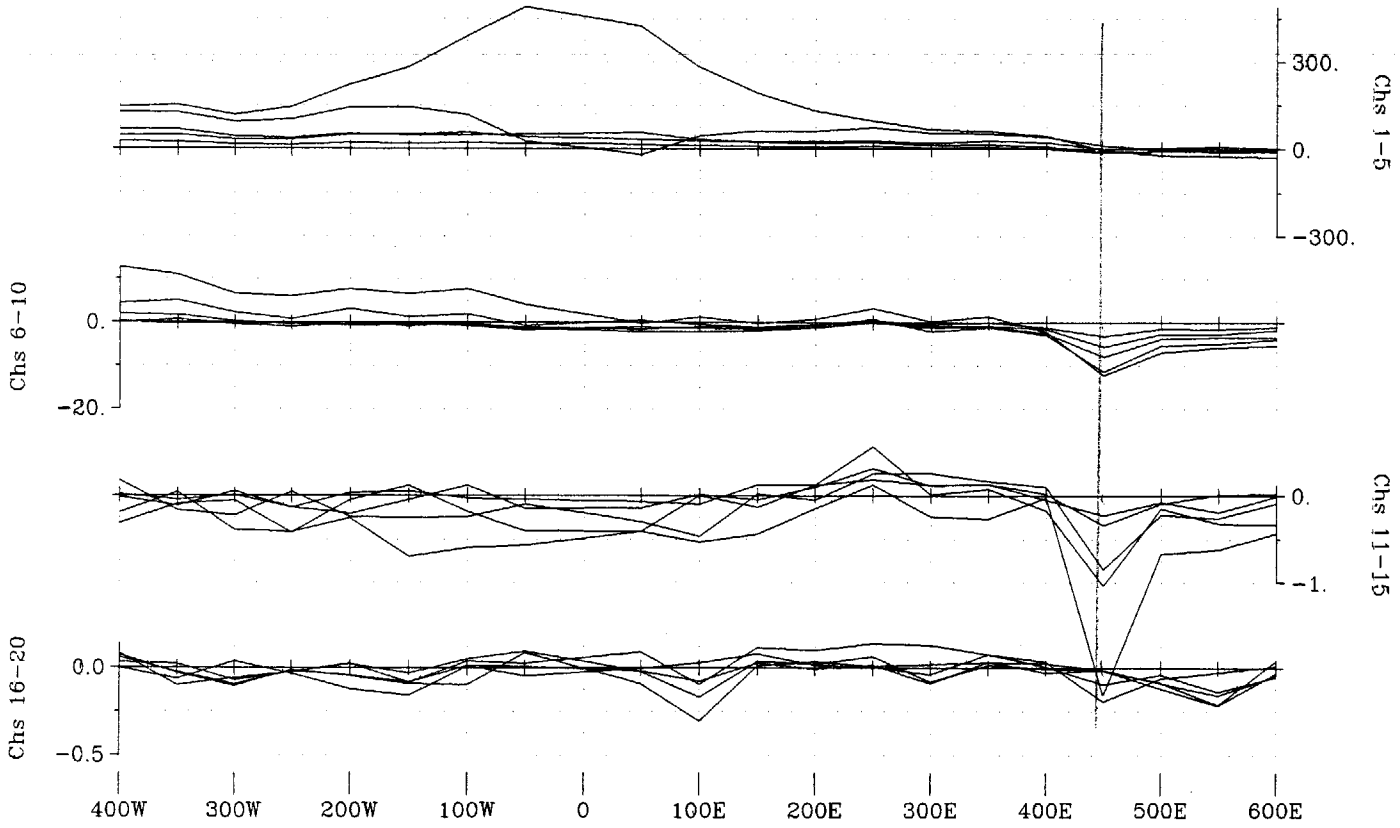
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-20+00N



Line 20+00N – X Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

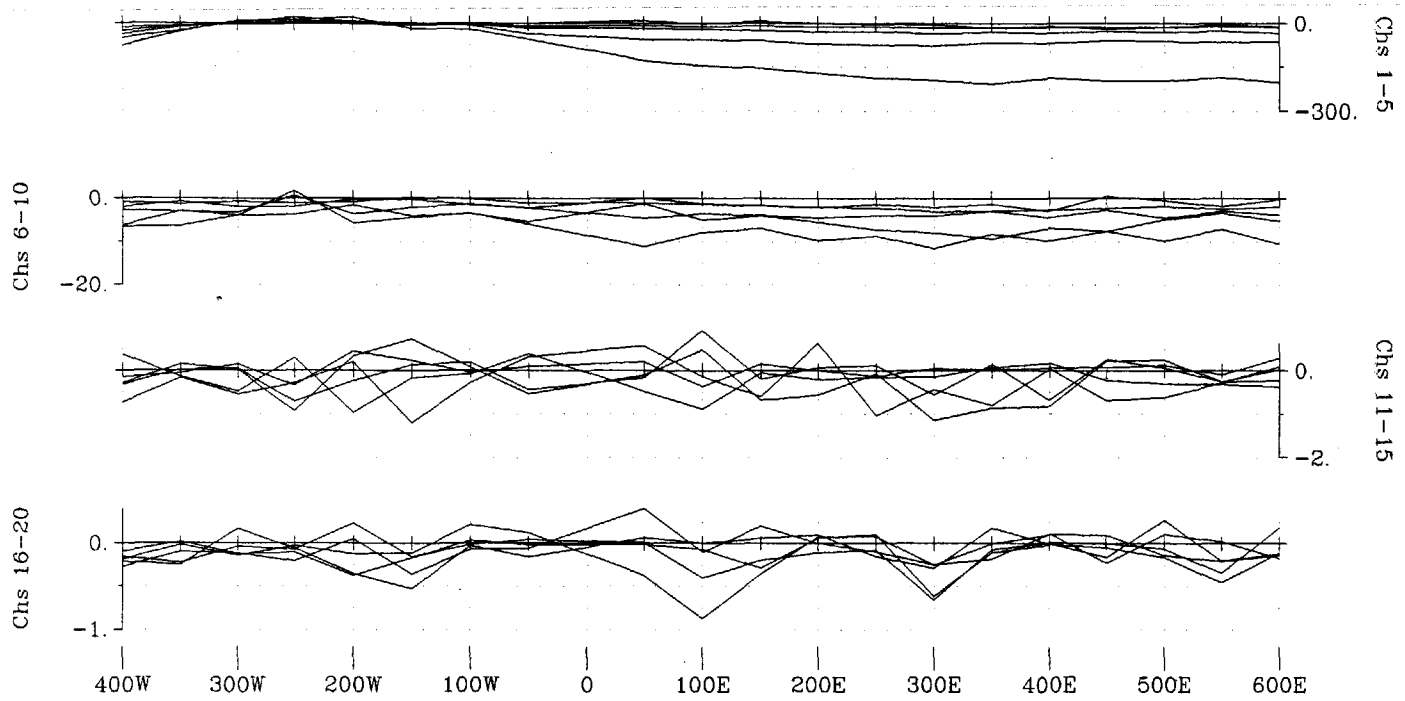
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Asm-2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m-2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-20+00N



Line 20+00N – Y Component

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

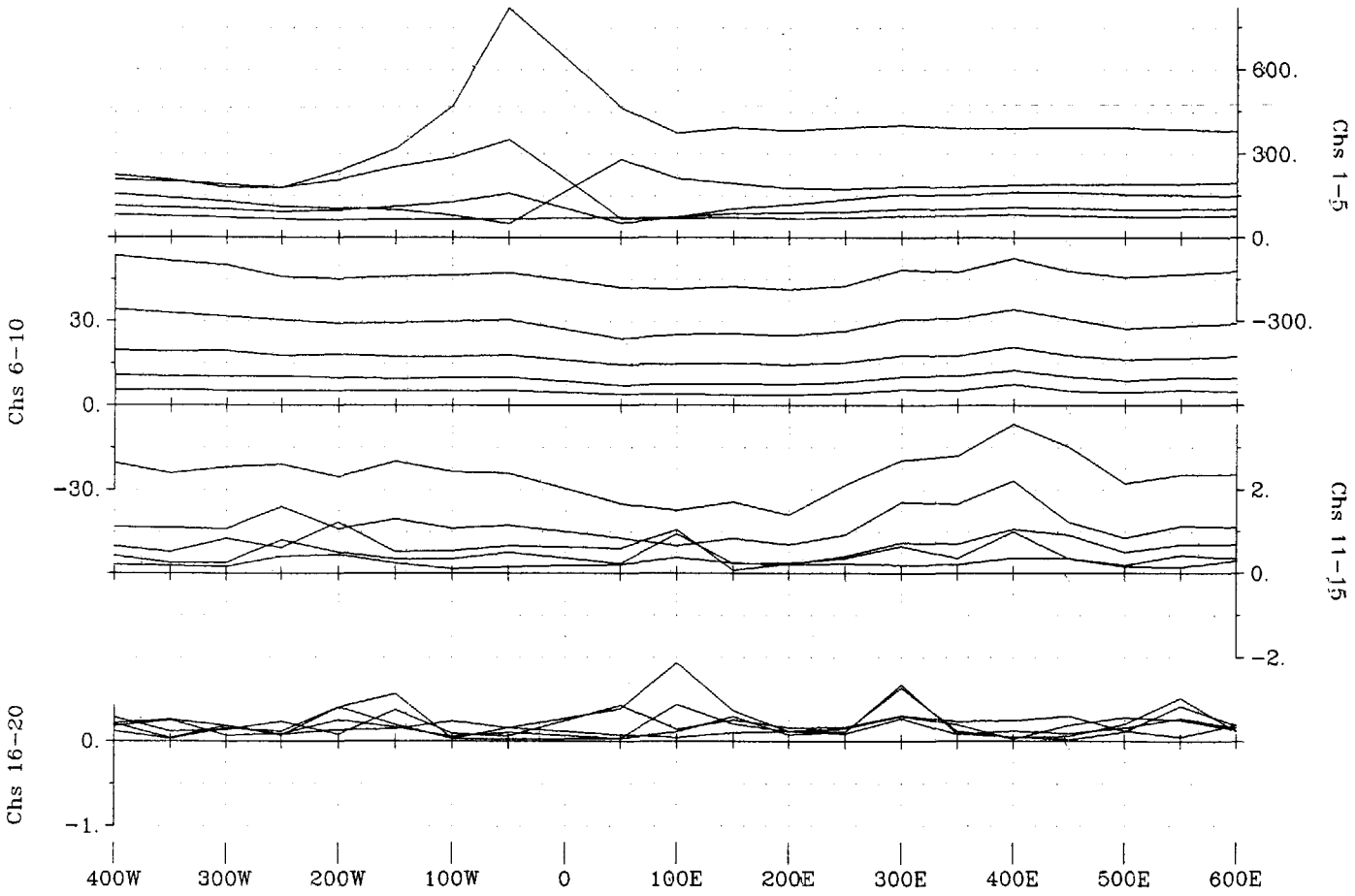
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-20+00N



Line 20+00N – Total Field

LOOP 1

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

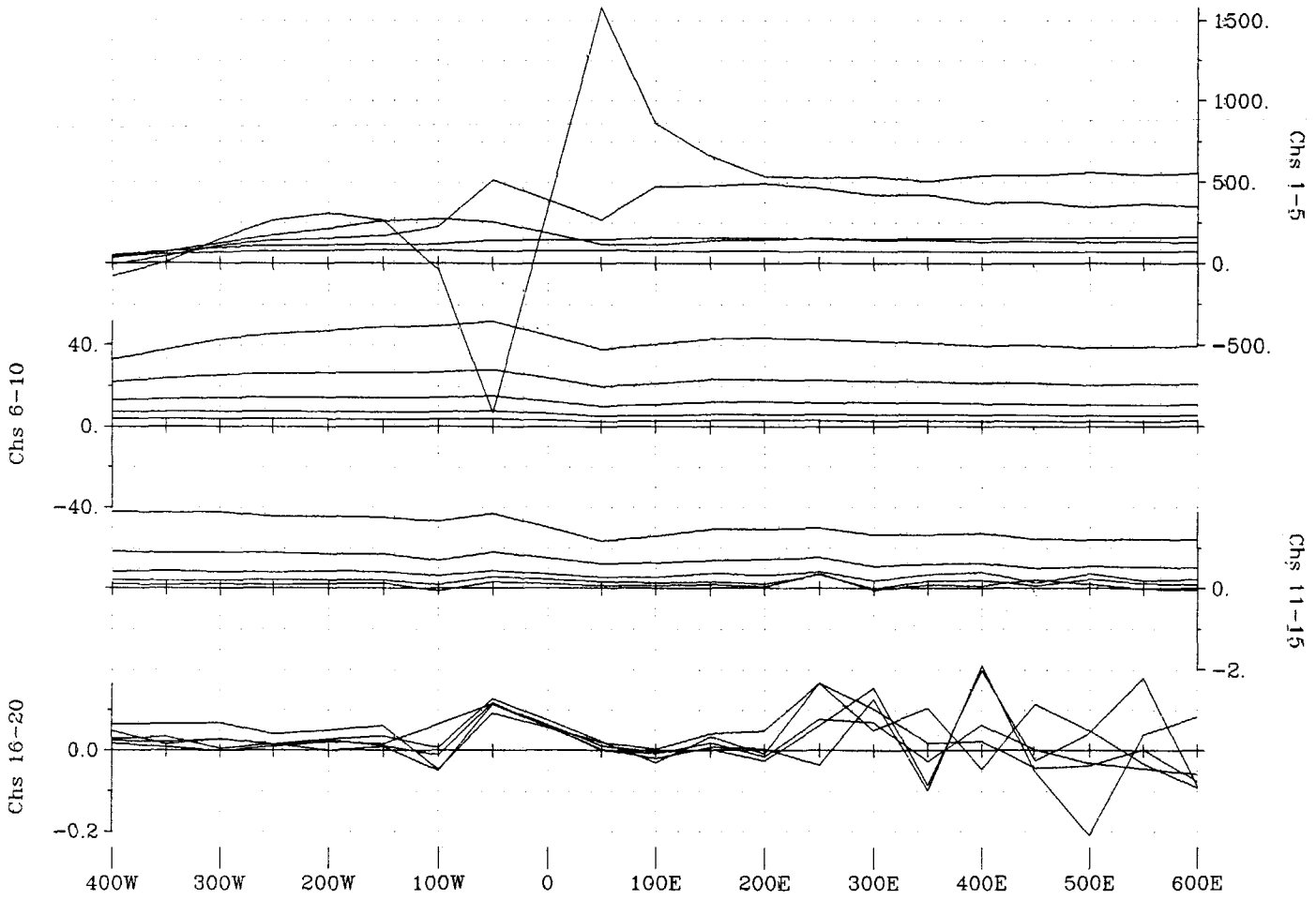
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L10N to L22N & 0+00 to TL10E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 23, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-20+00N



Line 22+00N – Z Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

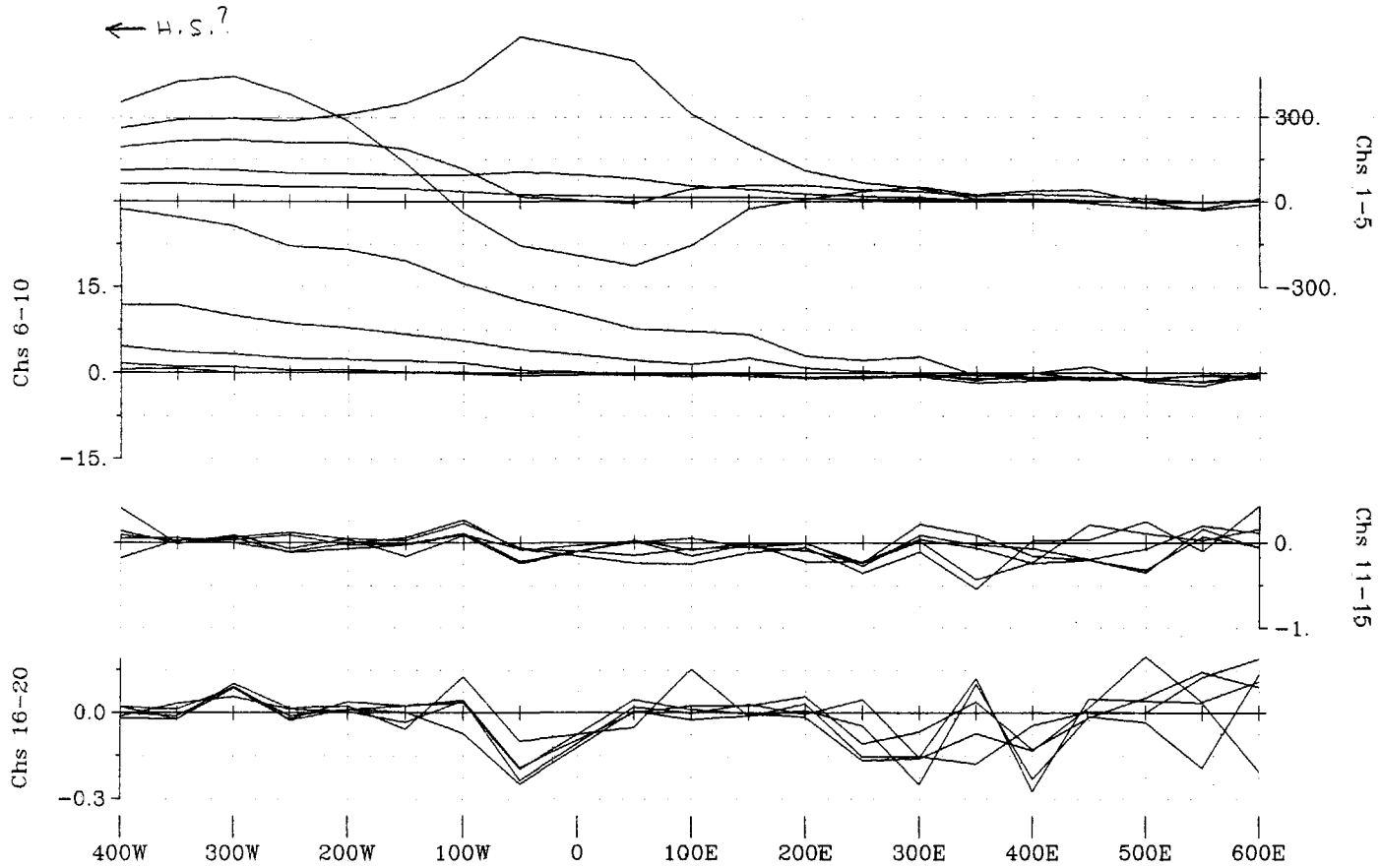
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-22+00N



Line 22+00N – X Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

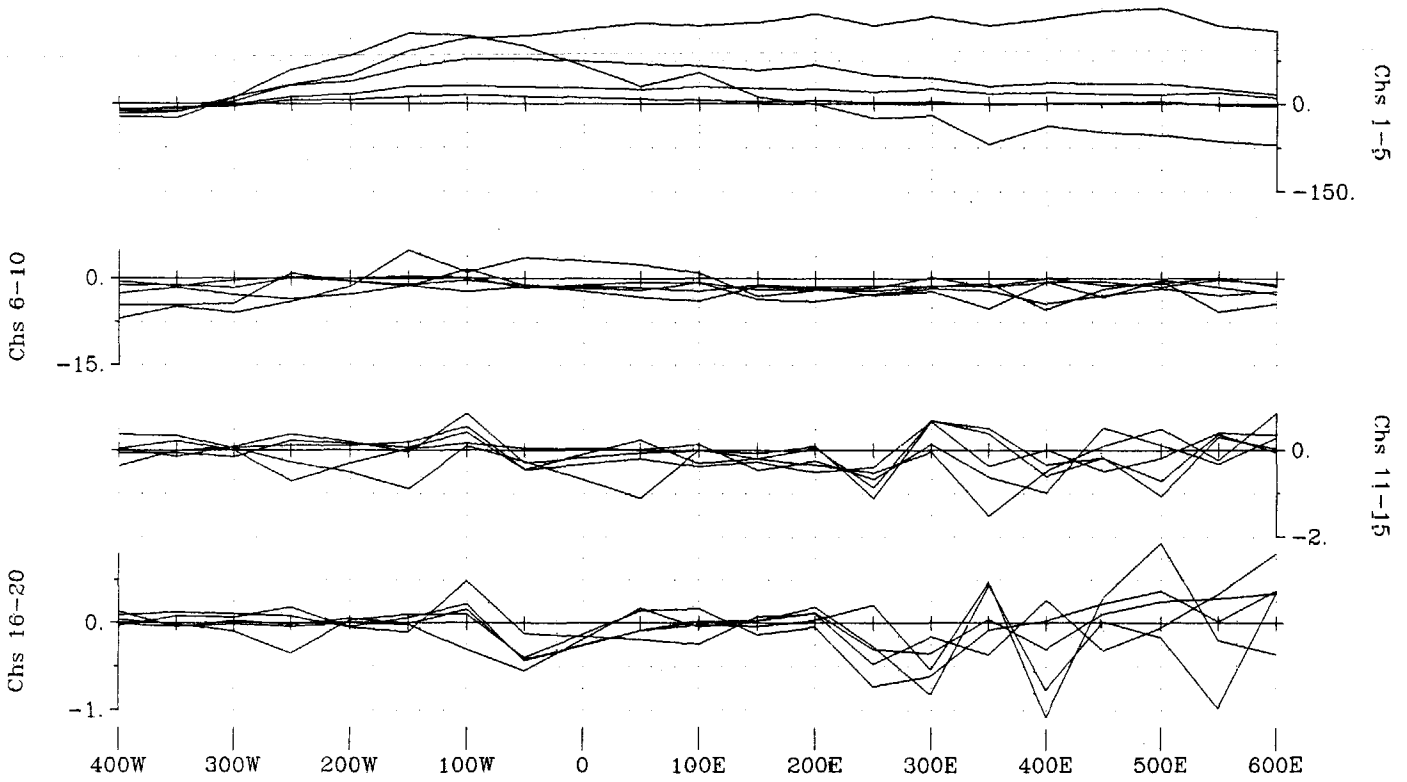
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-22+00N



Line 22+00N – Y Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

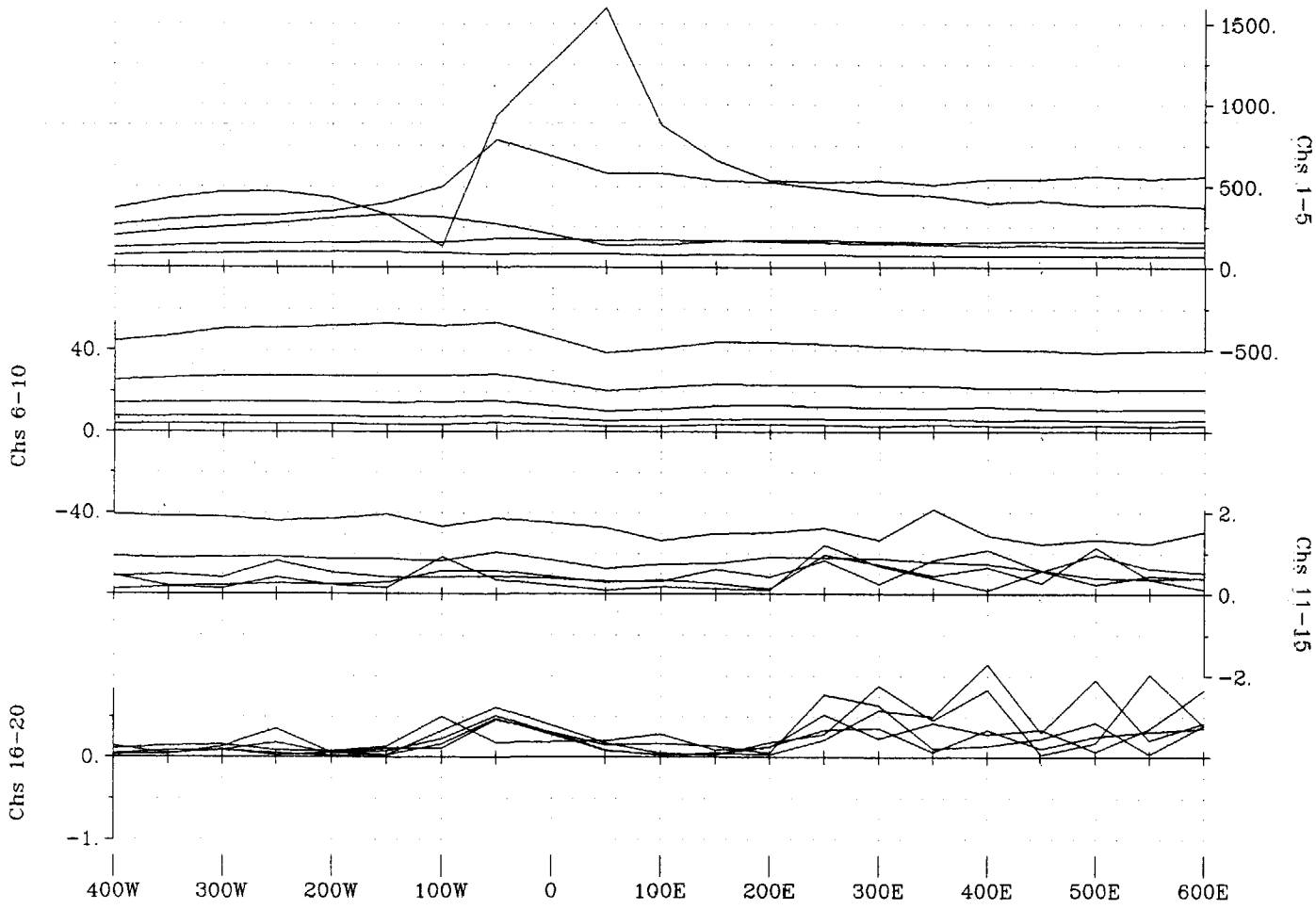
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz – positive up
	Hx – positive west
	Hy – positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-22+00N



Line 22+00N – Total Field

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

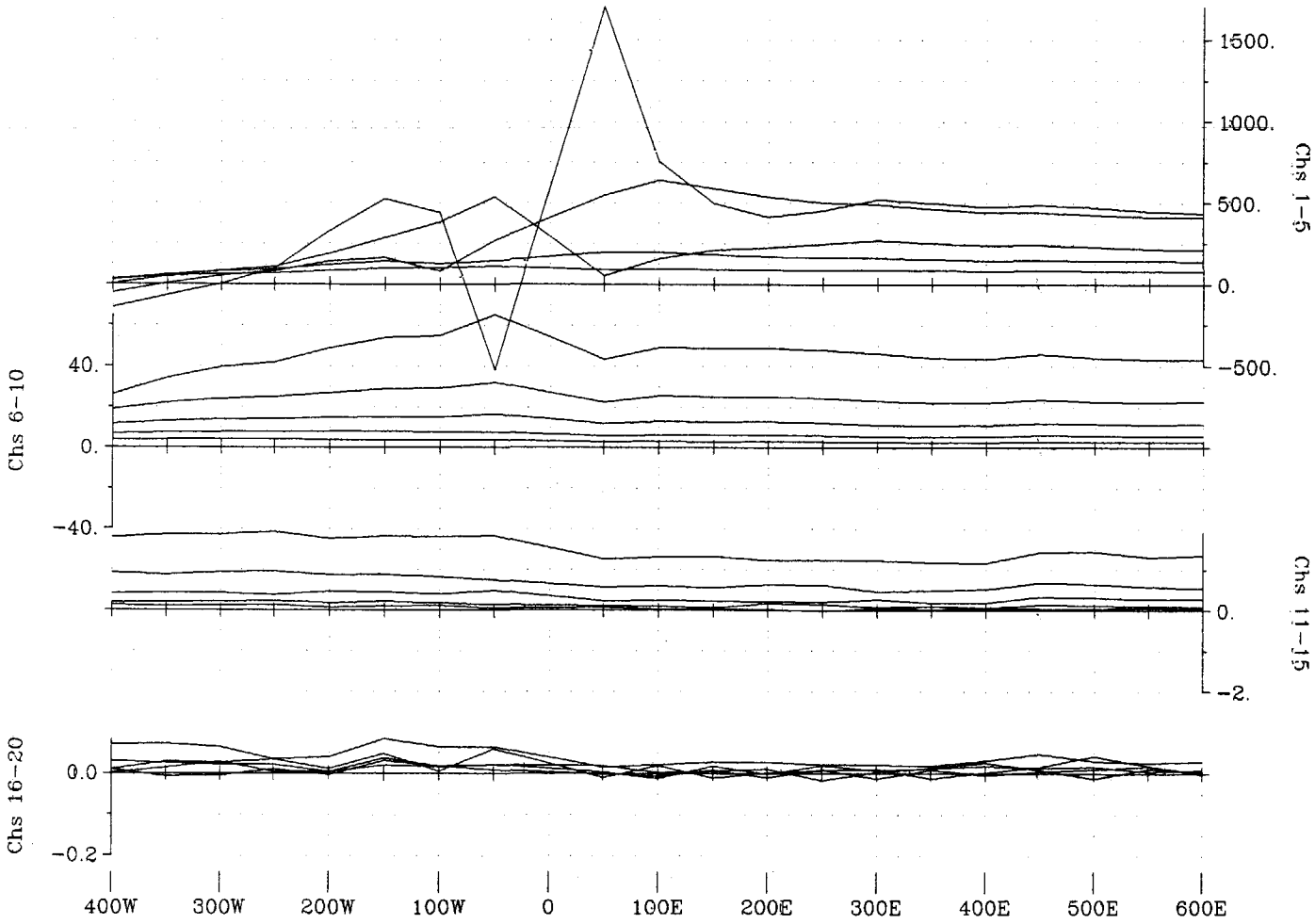
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-22+00N



Line 24+00N – Z Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

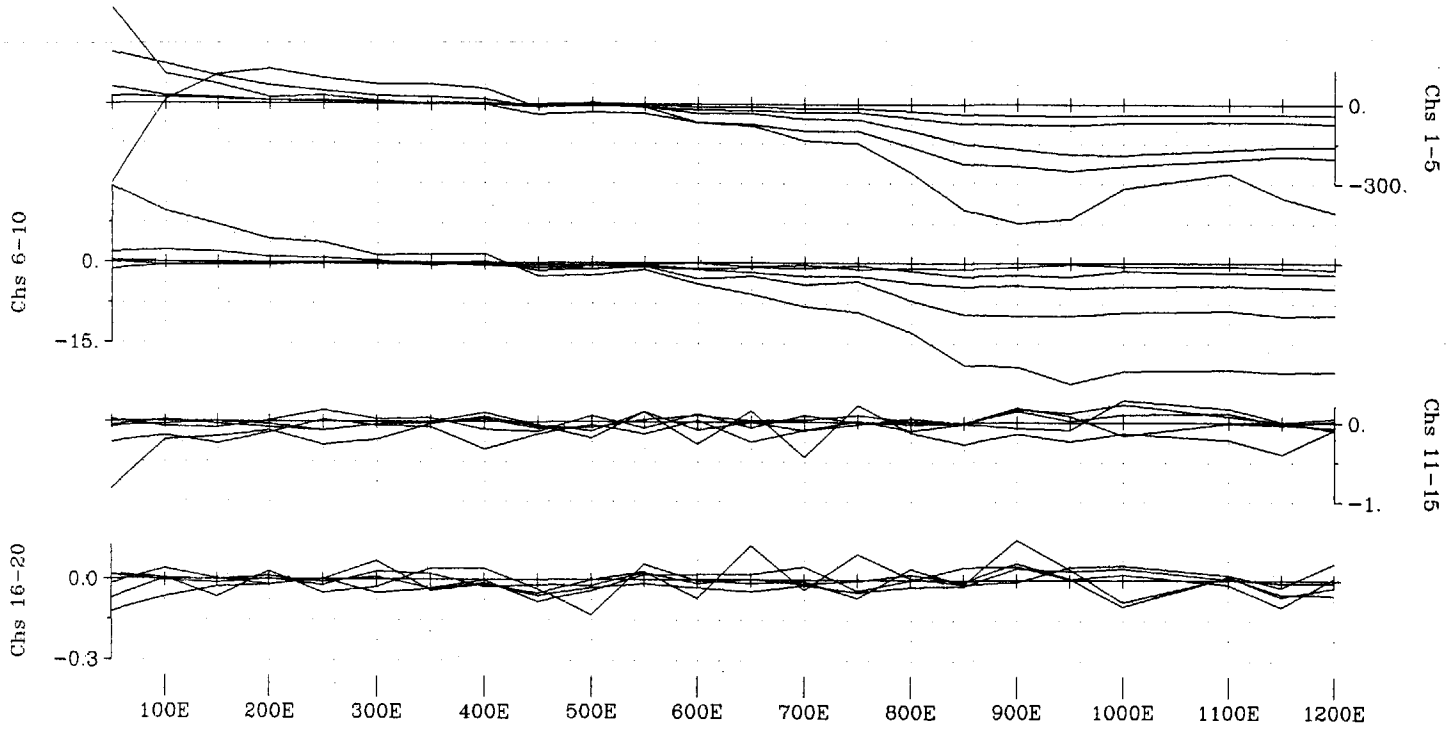
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-24+00N



Line 26+00N – X Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

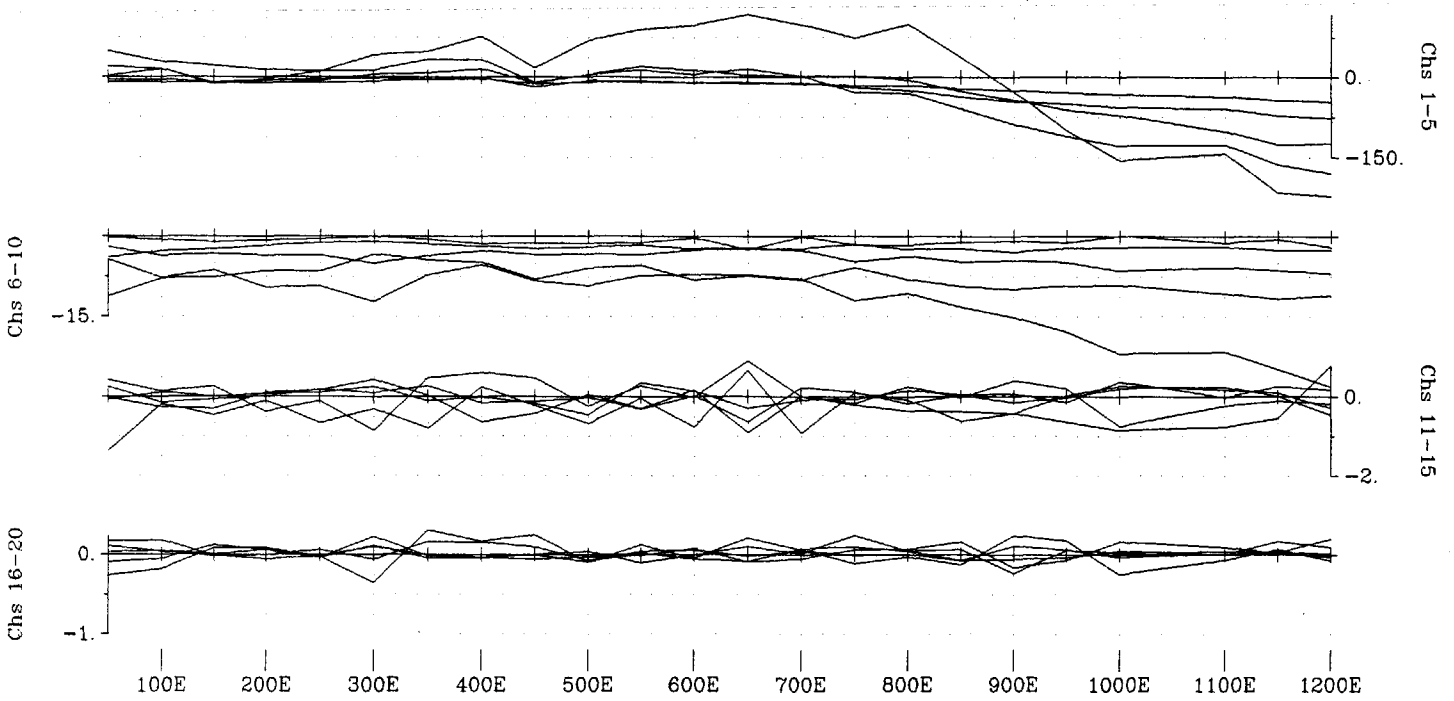
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Asm^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-26+00N



Line 26+00N – Y Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

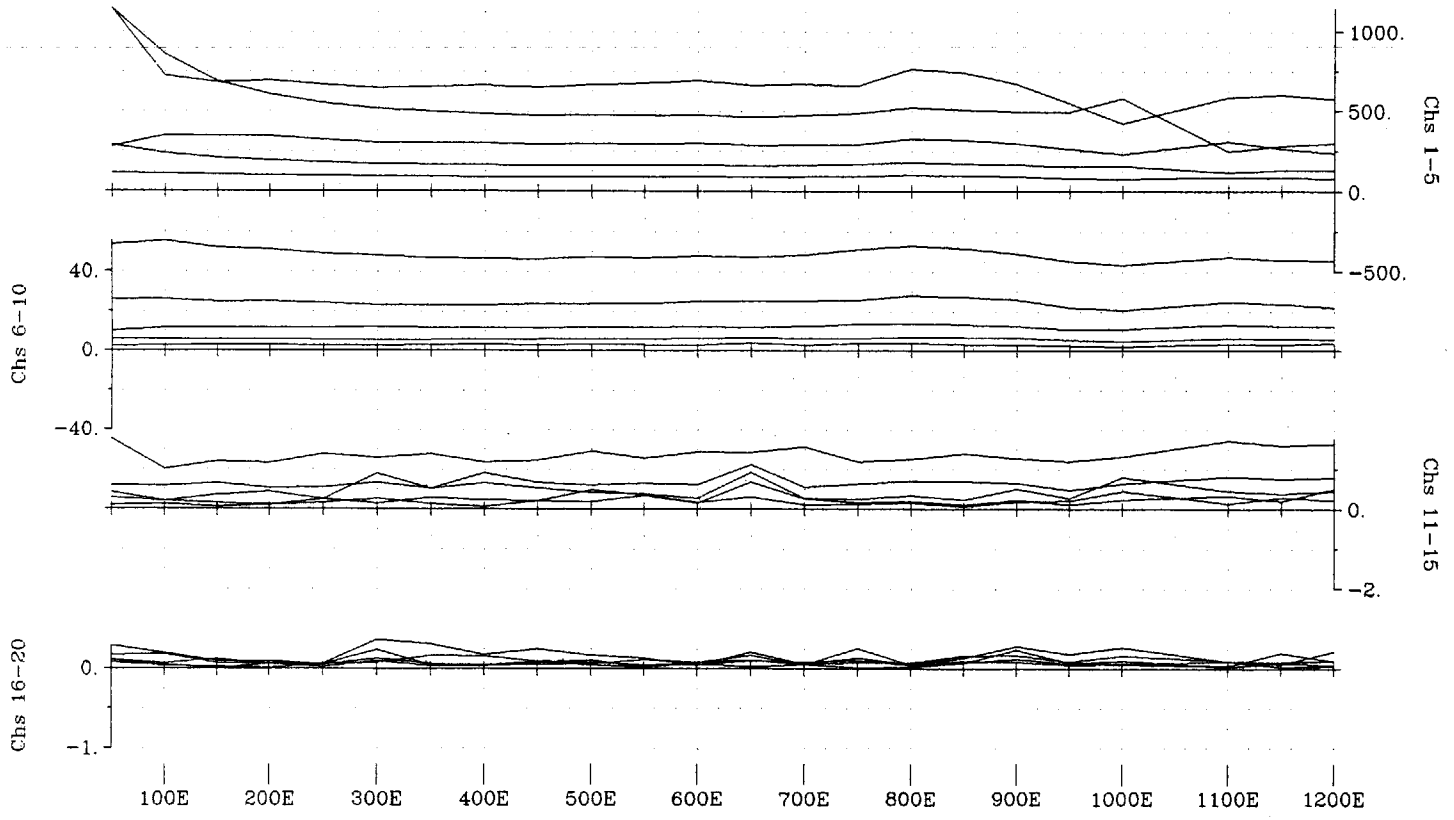
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-26+00N



Line 26+00N - Total Field

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

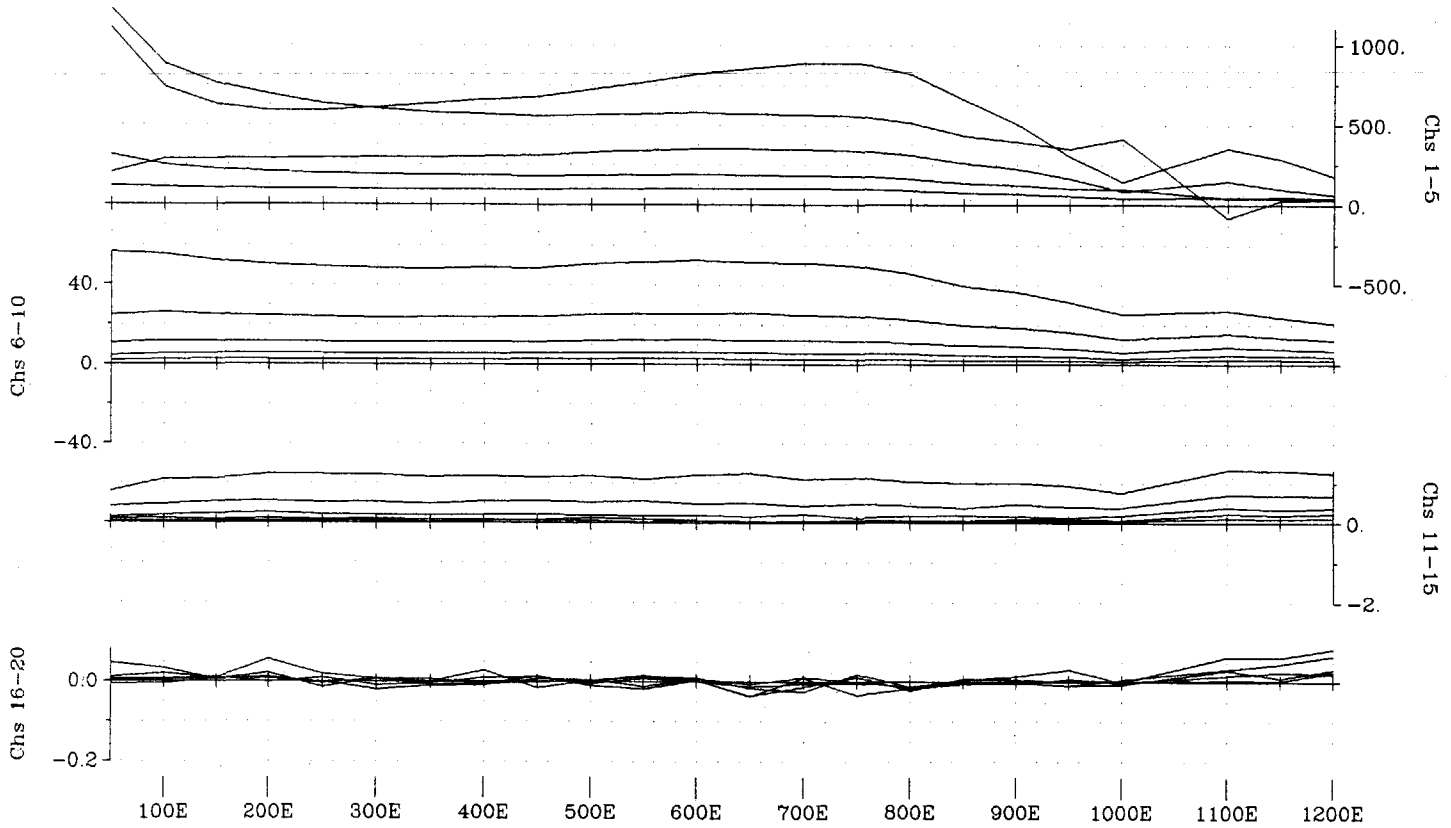
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	100C x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-26+00N



Line 28+00N – Z Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

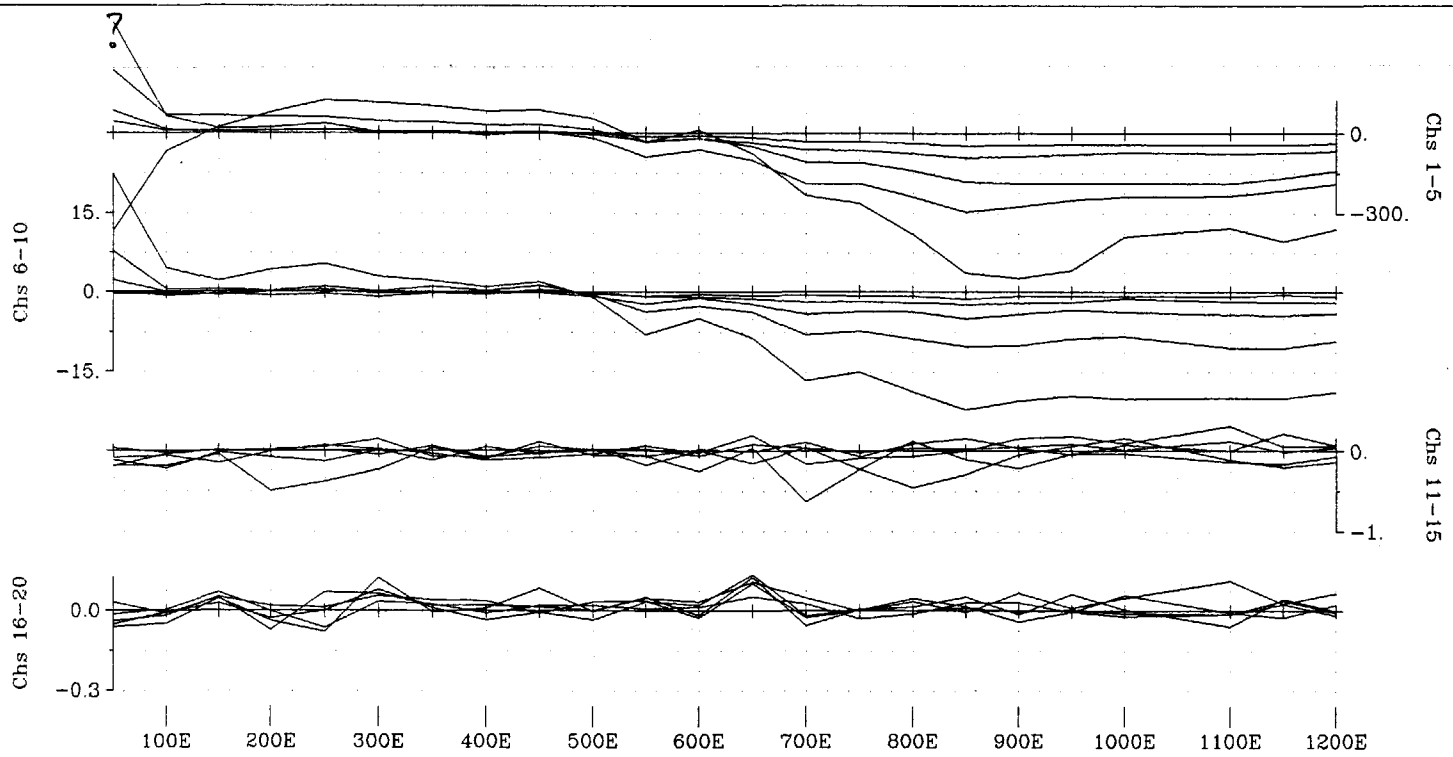
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-28+00N



Line 28+00N – X Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

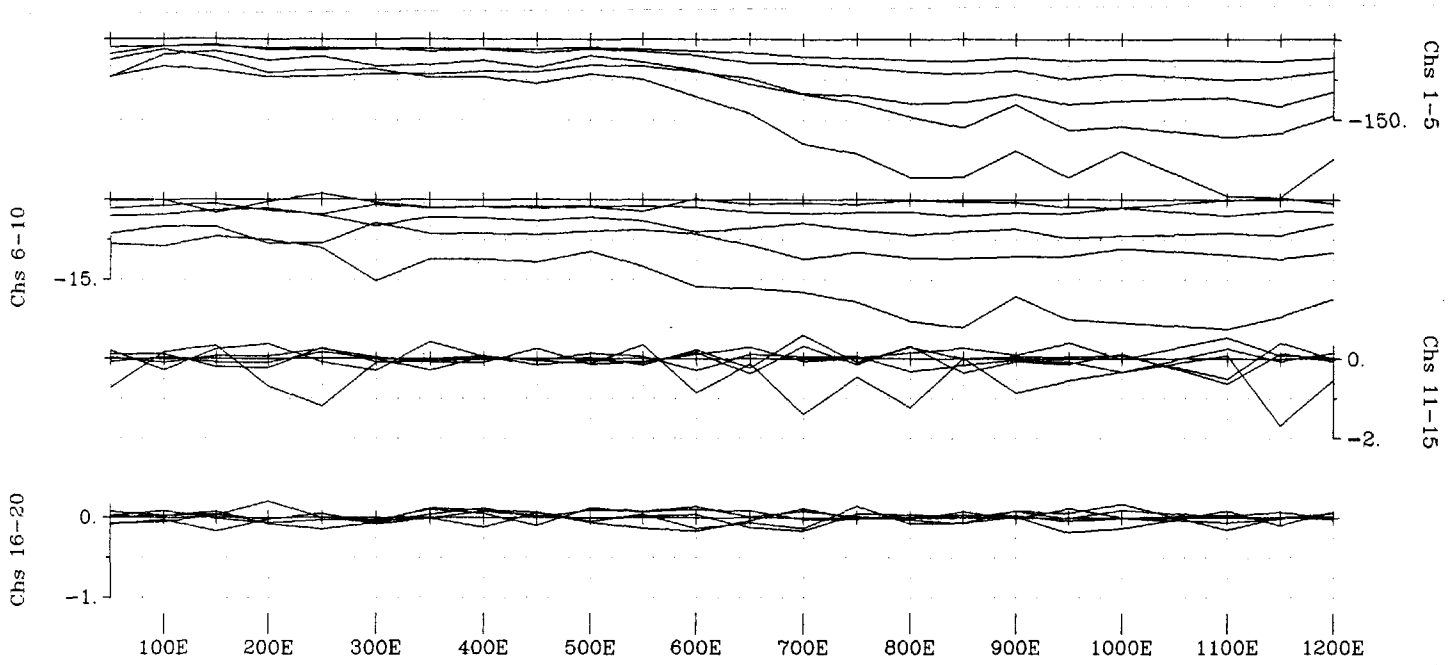
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Asm^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-28+00N



Line 28+00N - Y Component

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

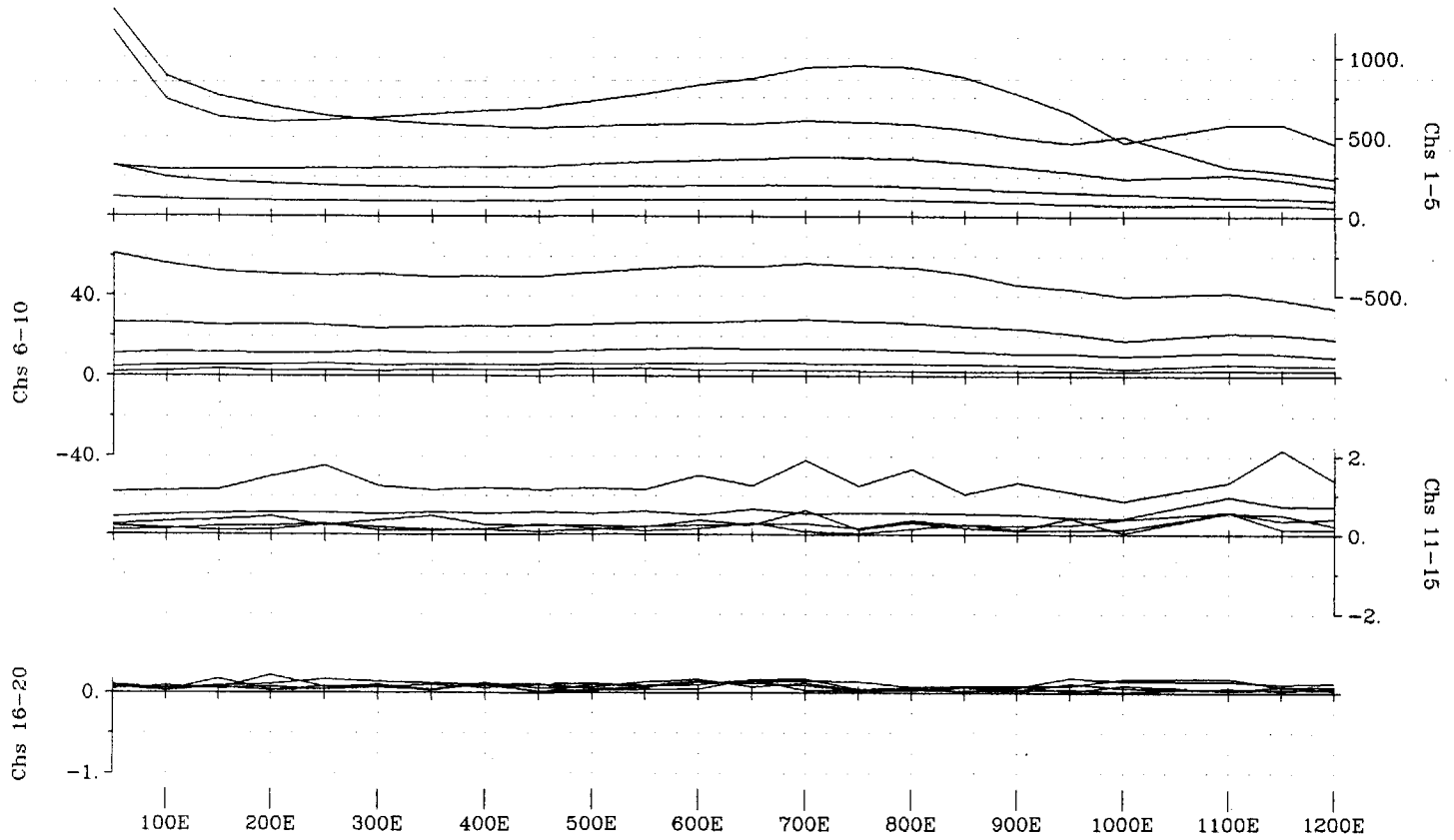
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-28+00N



Line 28+00N – Total Field

LOOP 3

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

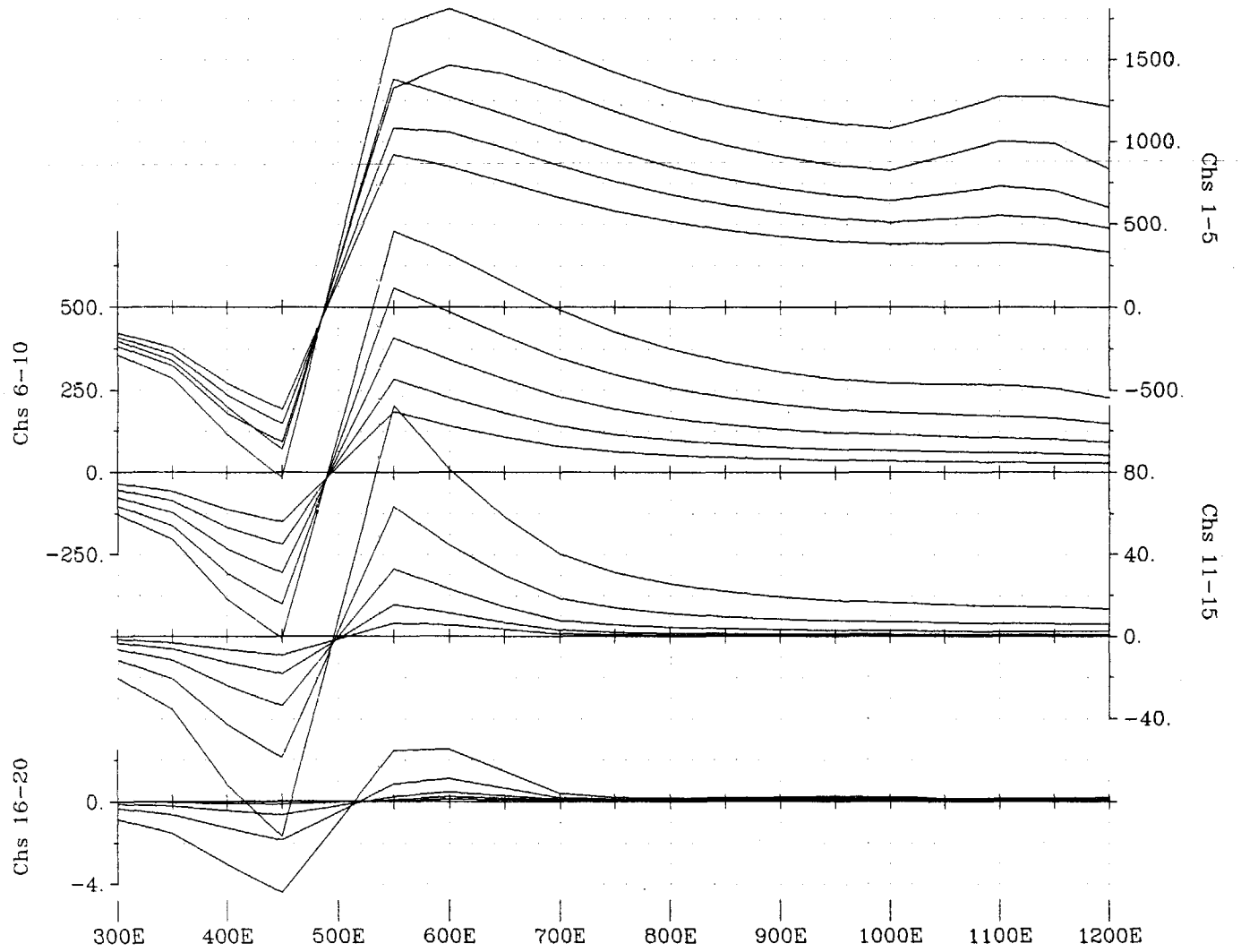
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1000 meters
Tx Loop Location:	L20N to L30N & 0+00 to TL10E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 25, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-28+00N



Line 6+00N – Z Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

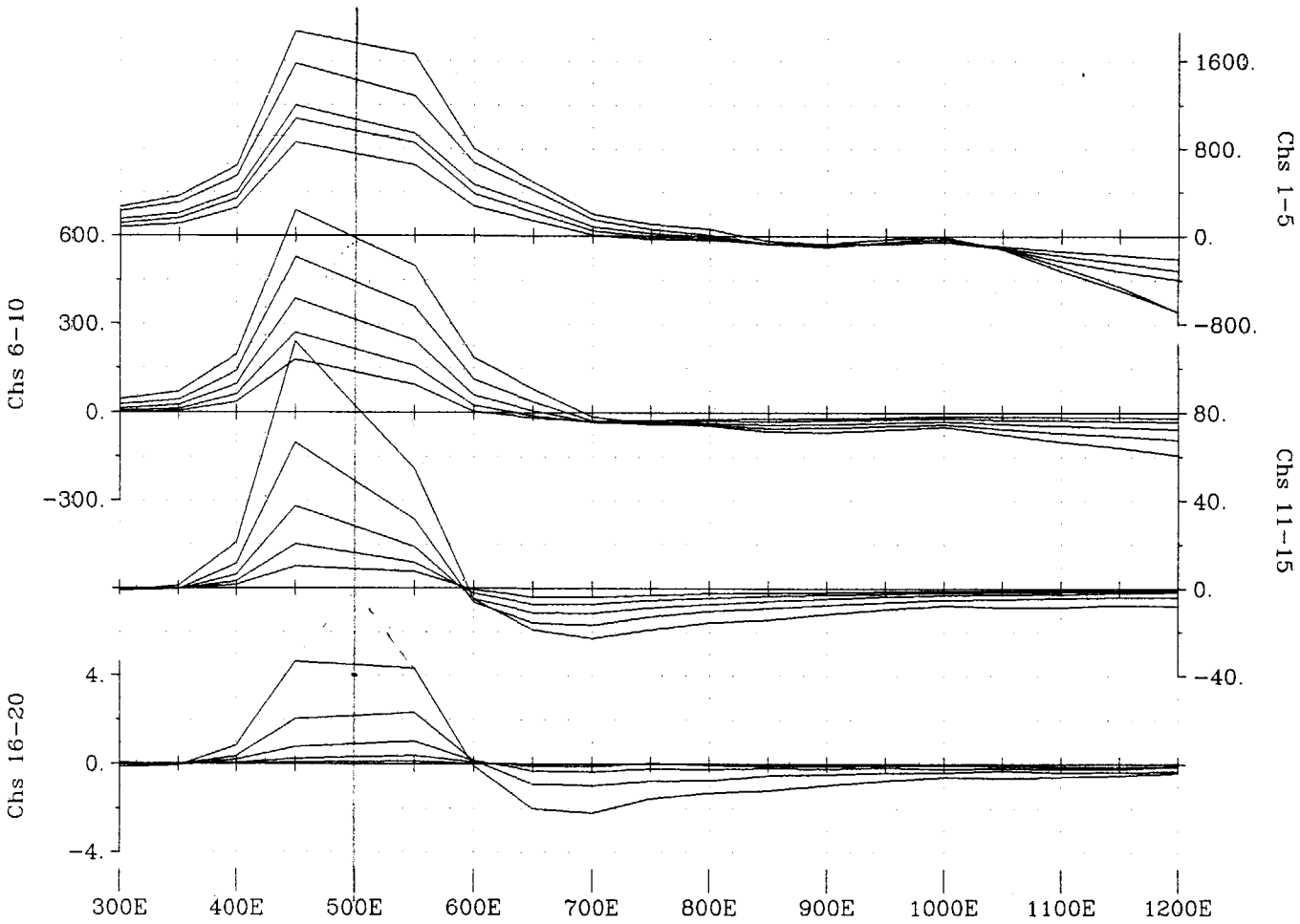
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-6+00N



Line 6+00N – X Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

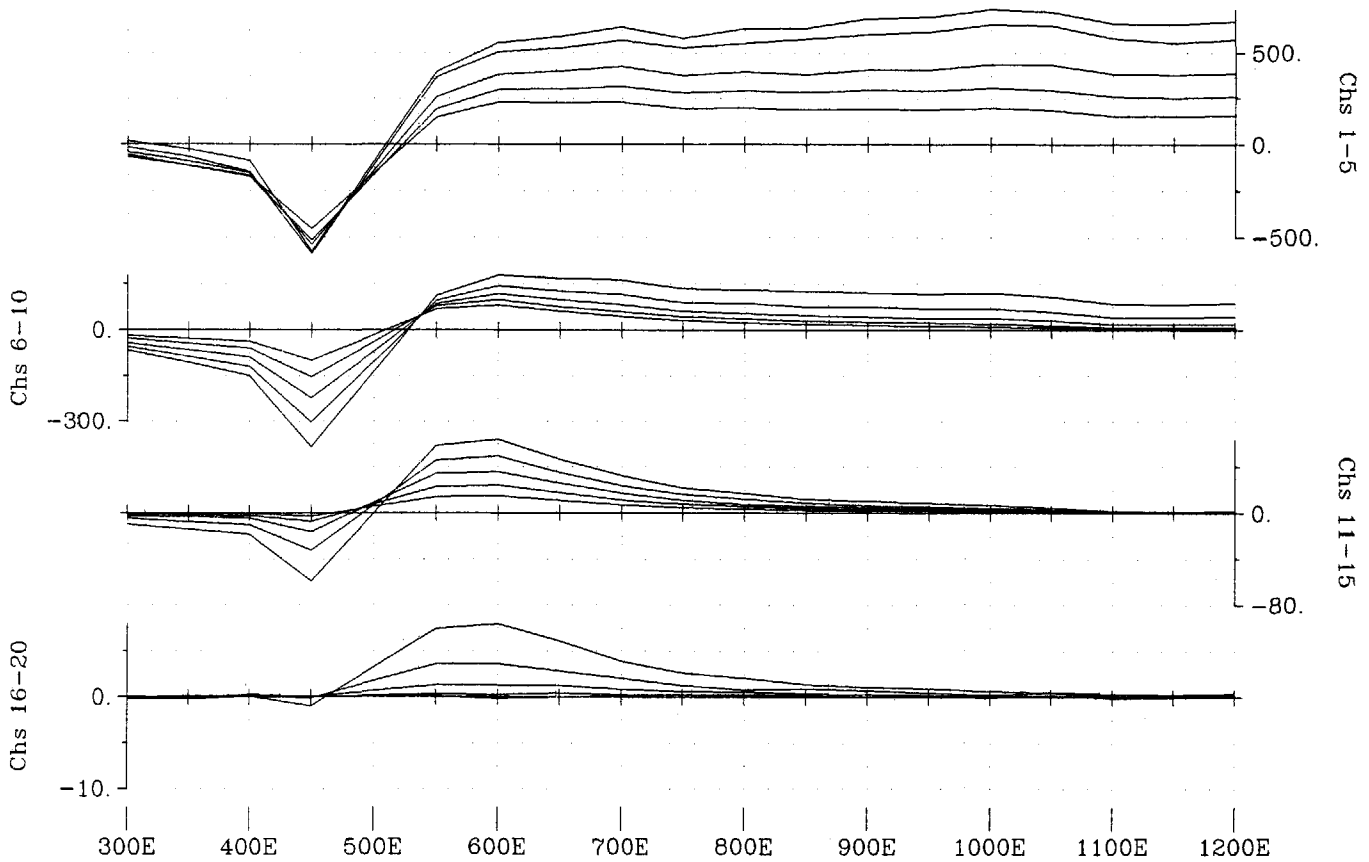
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. 'QG-346-4AXIS-X-6+00N



Line 6+00N - Y Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

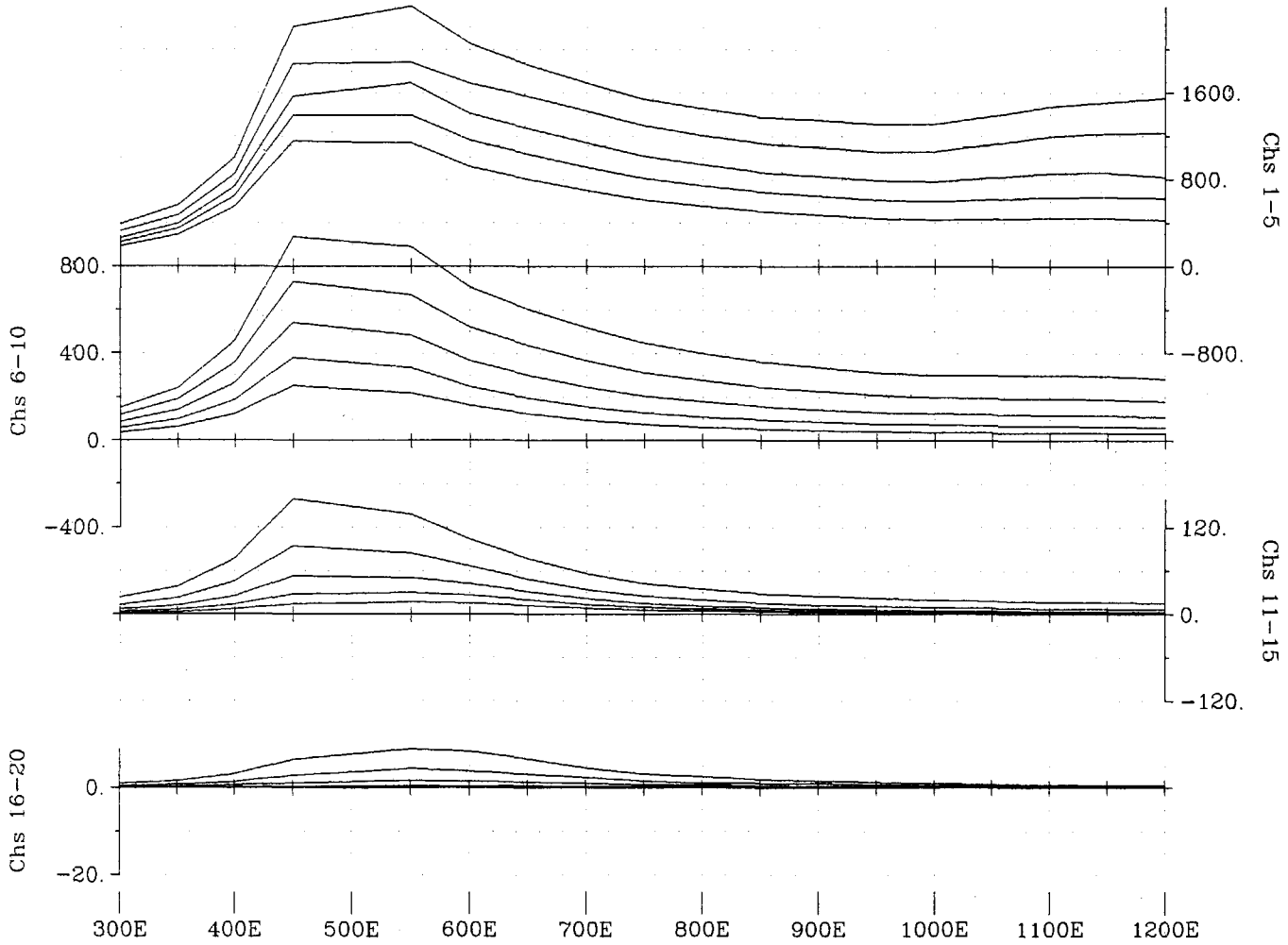
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-6+00N



Line 6+00N - Total Field

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

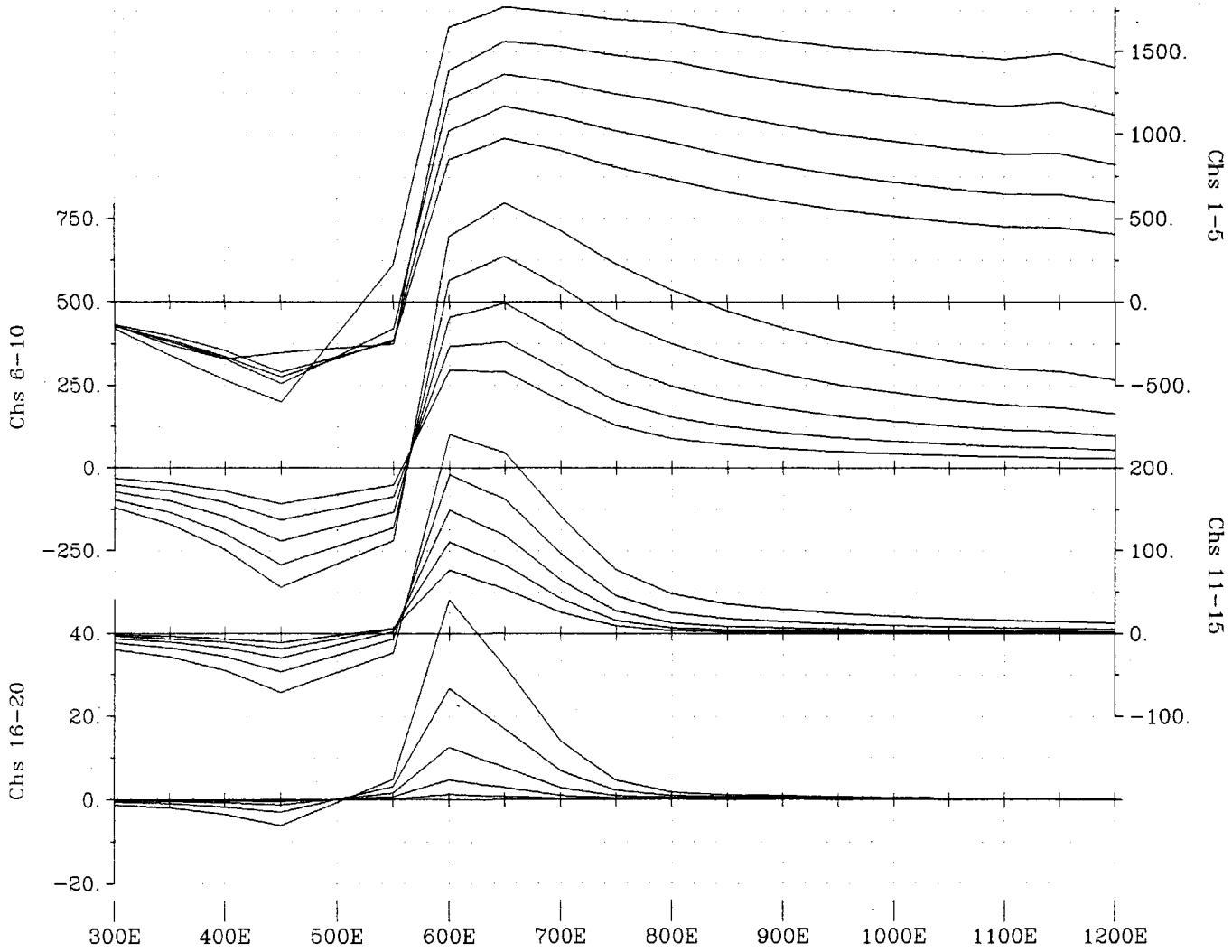
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	*Hz - positive up*
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-6+00N



Line 8+00N - Z Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

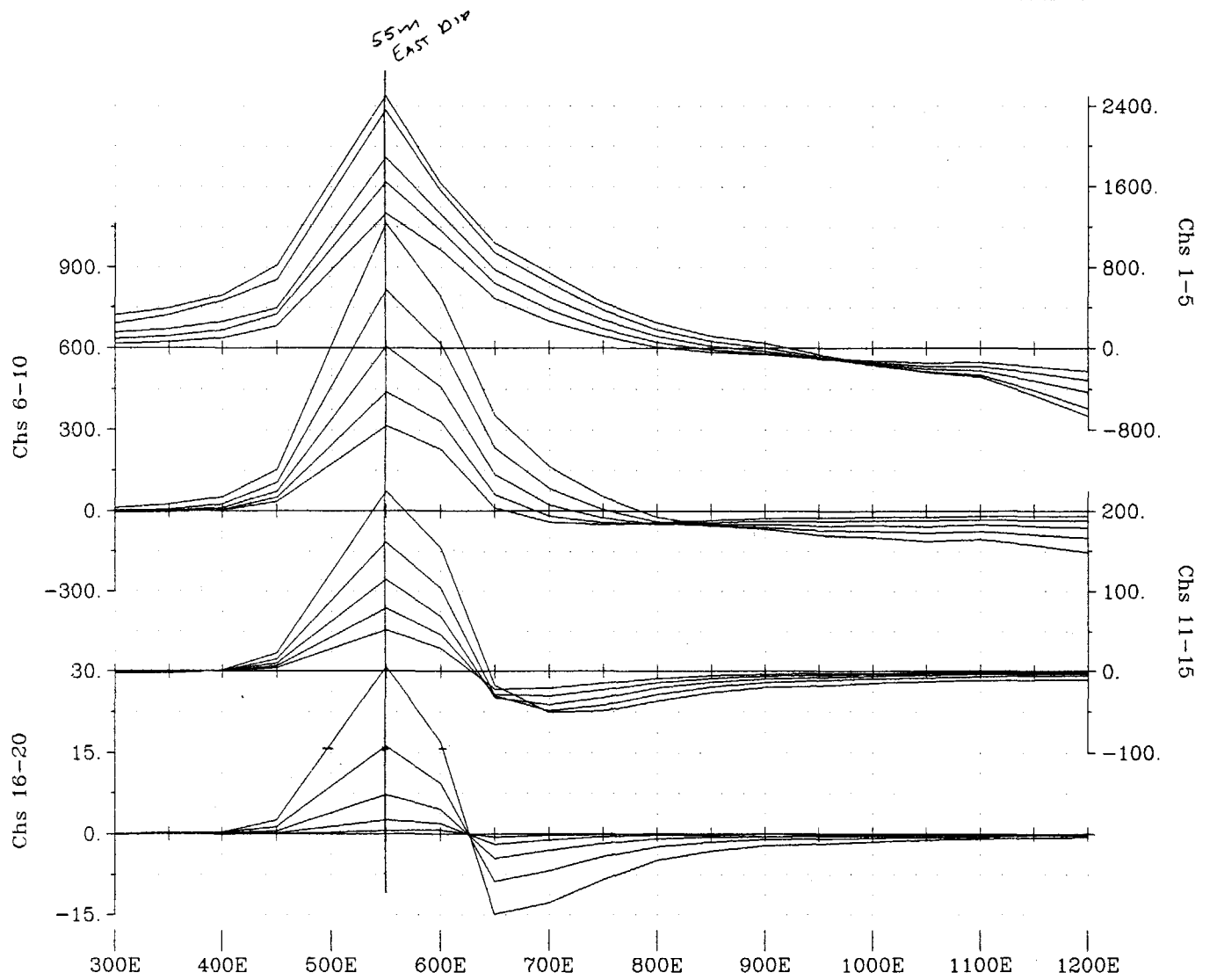
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A-m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-8+00N



Line 8+00N – X Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

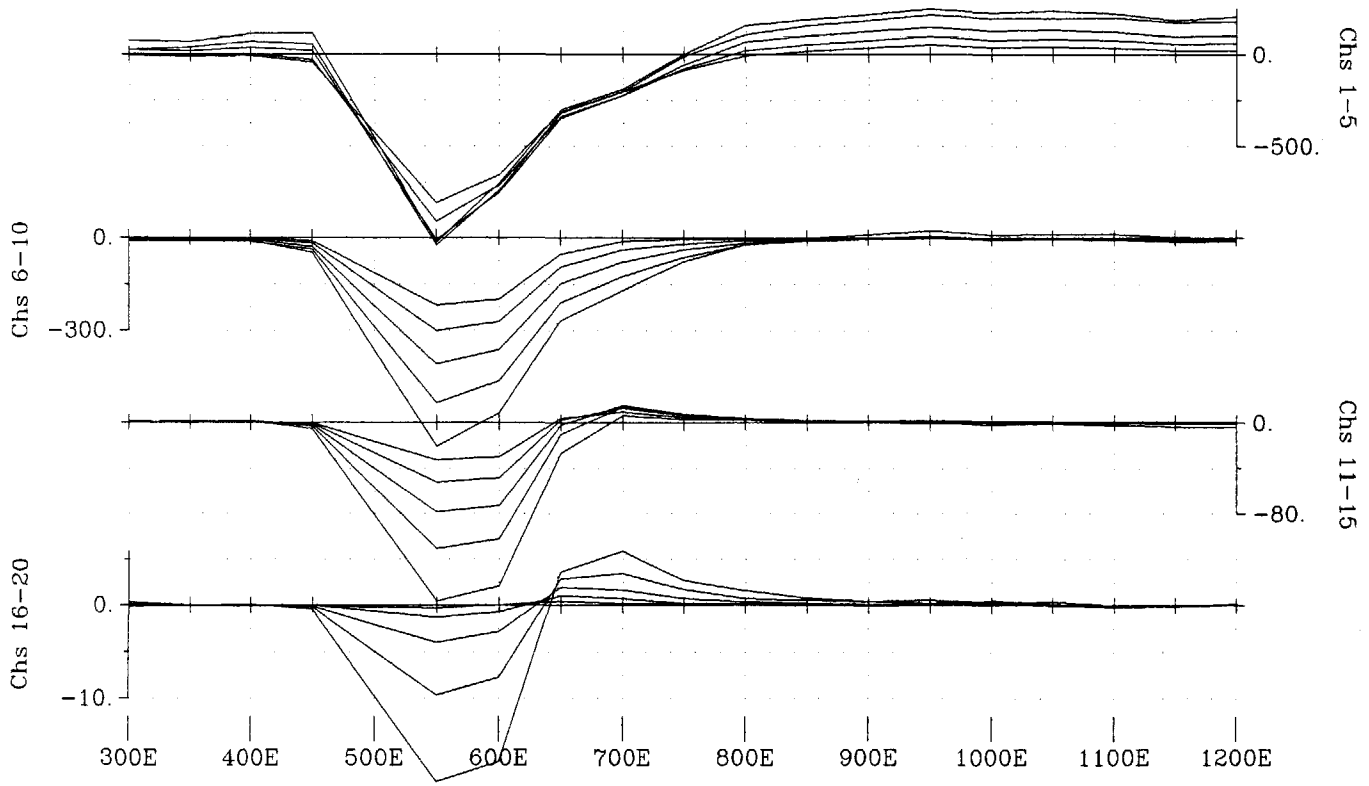
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz – positive up
	Hx – positive west
	Hy – positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-8+00N



Line 8+00N – Y Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

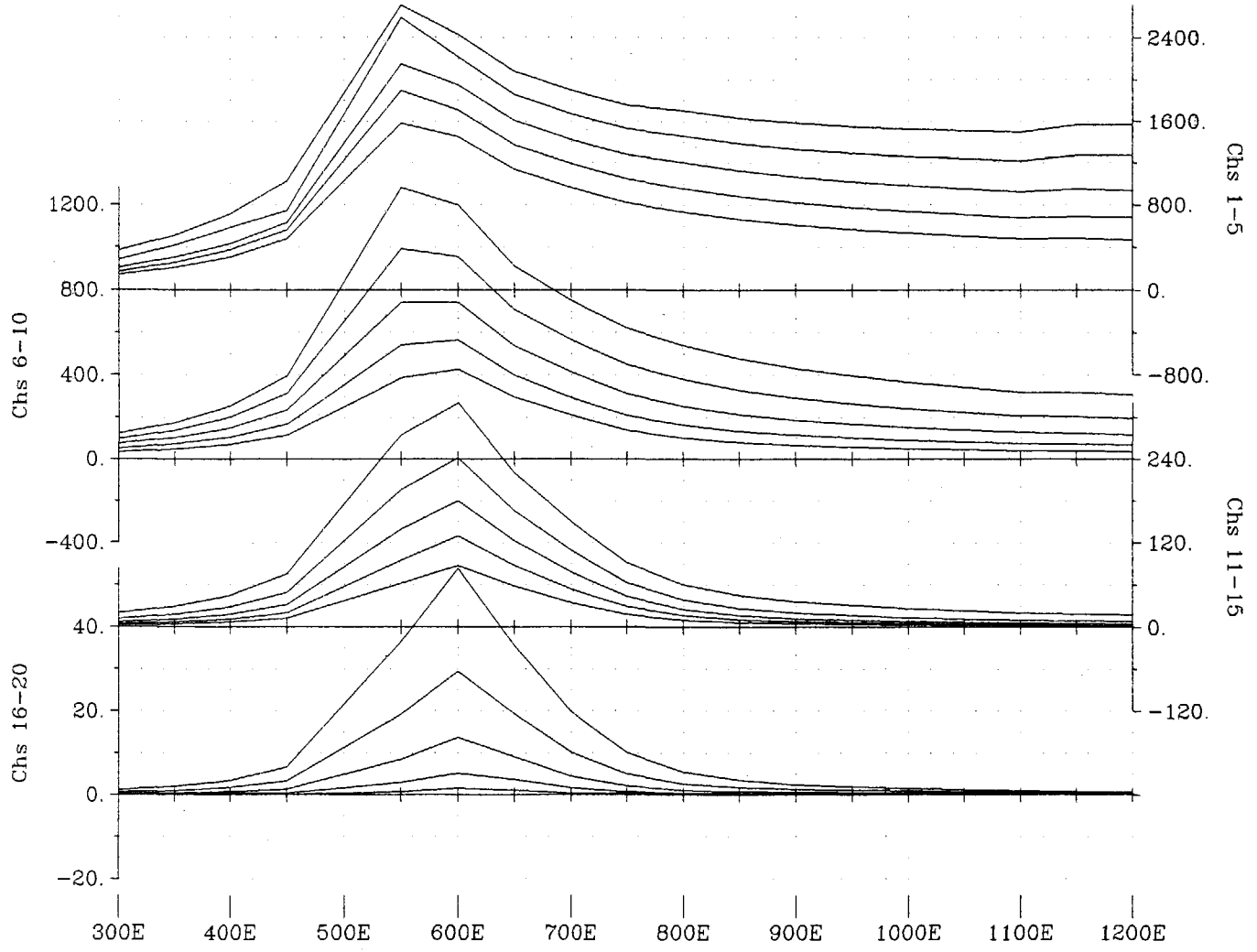
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-8+00N



Line 8+00N - Total Field

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

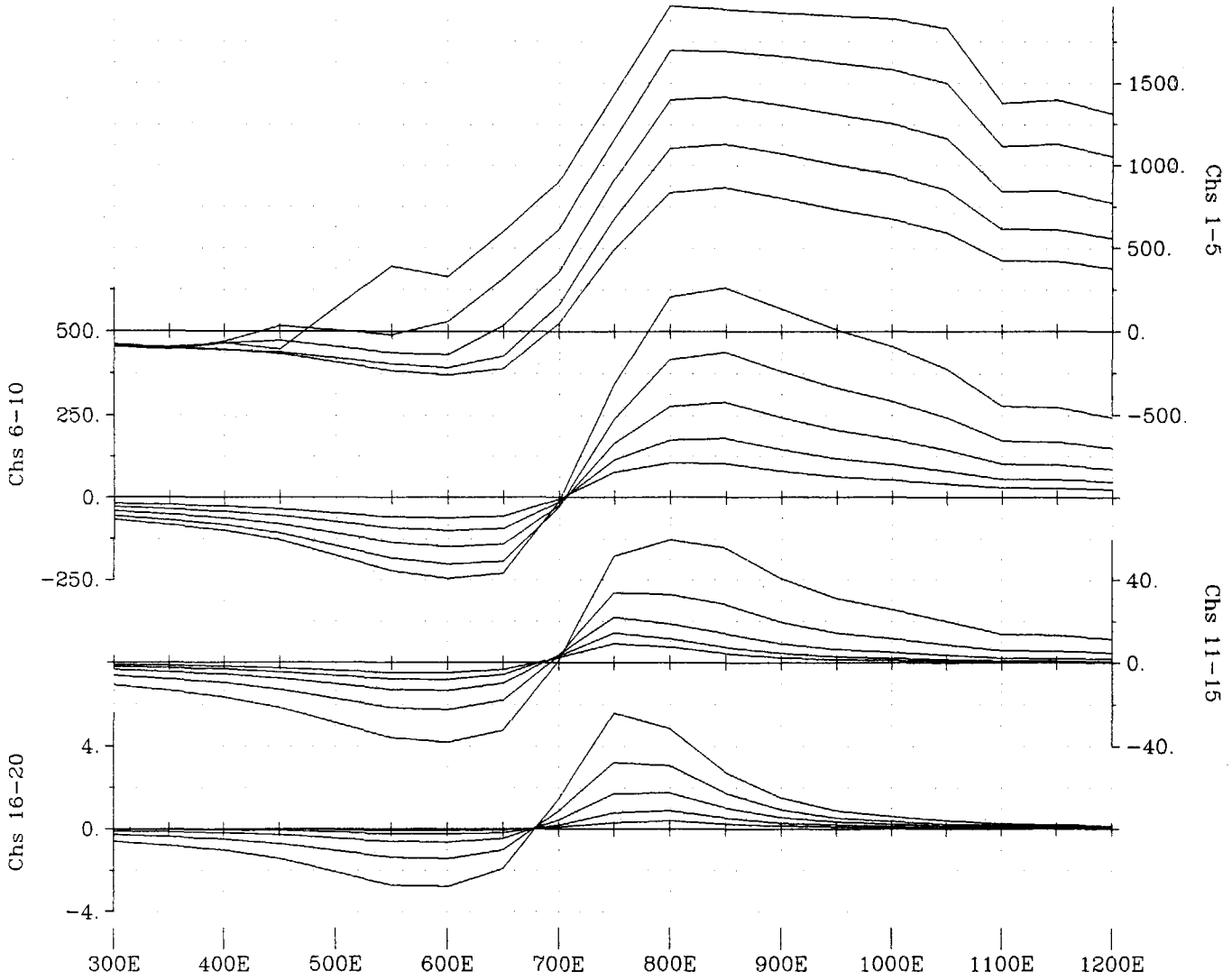
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-8+00N



Line 10+00N – Z Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

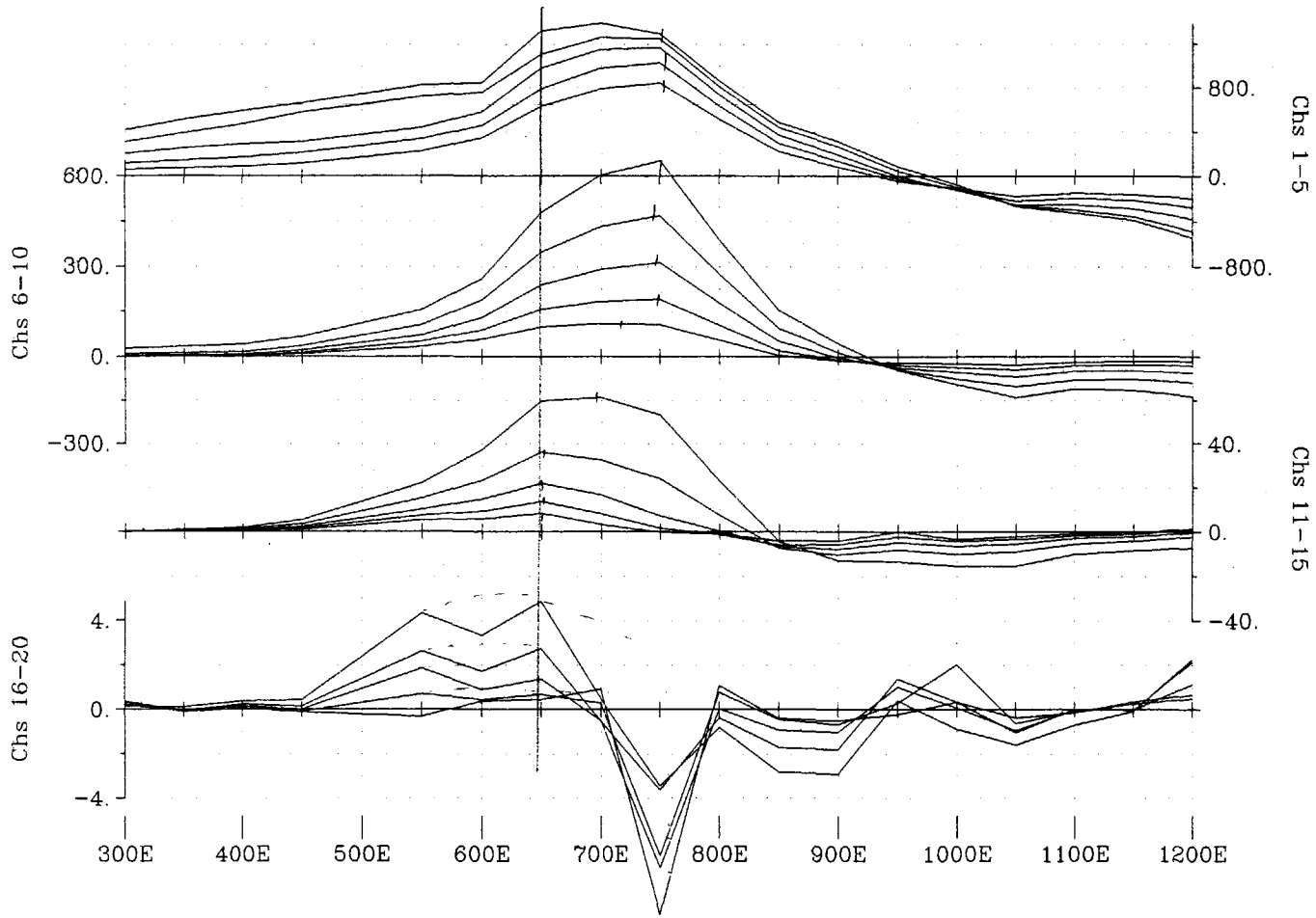
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-10+00N



Line 10+00N – X Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

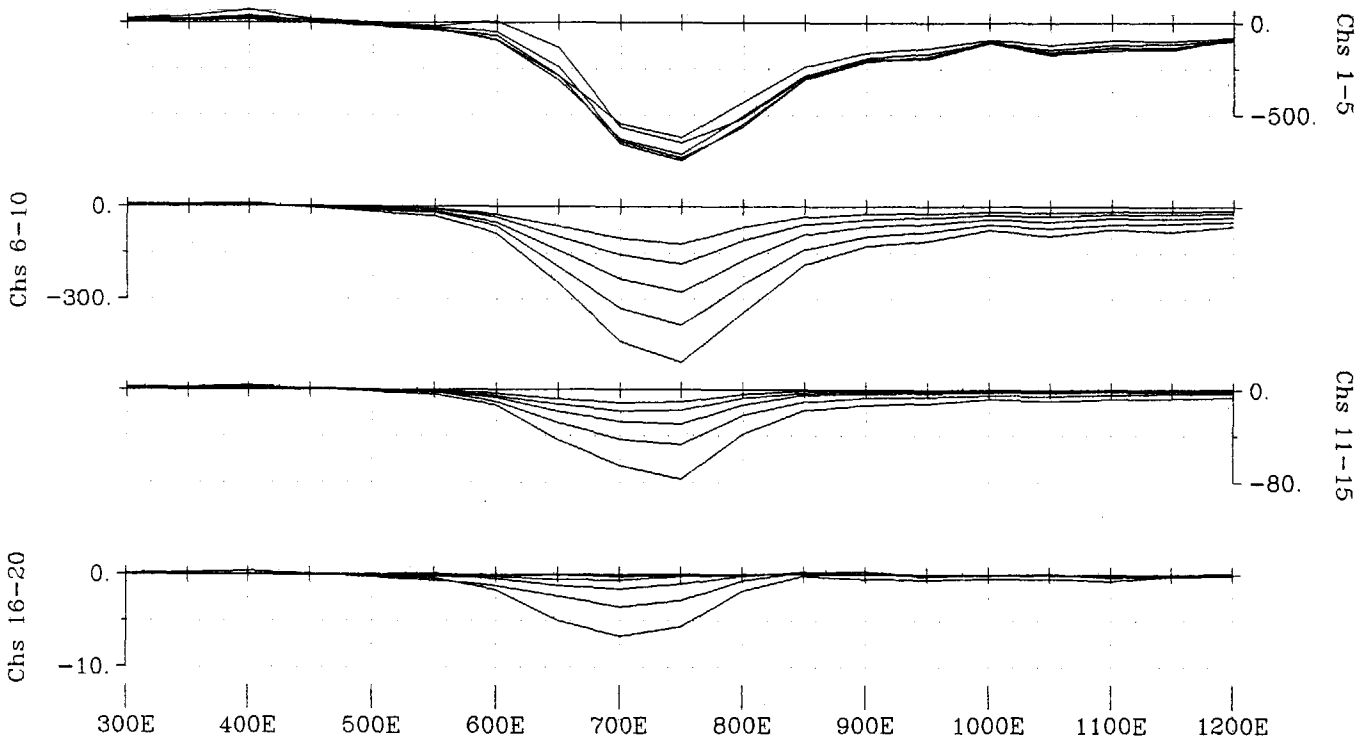
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-10+00N



Line 10+00N – Y Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

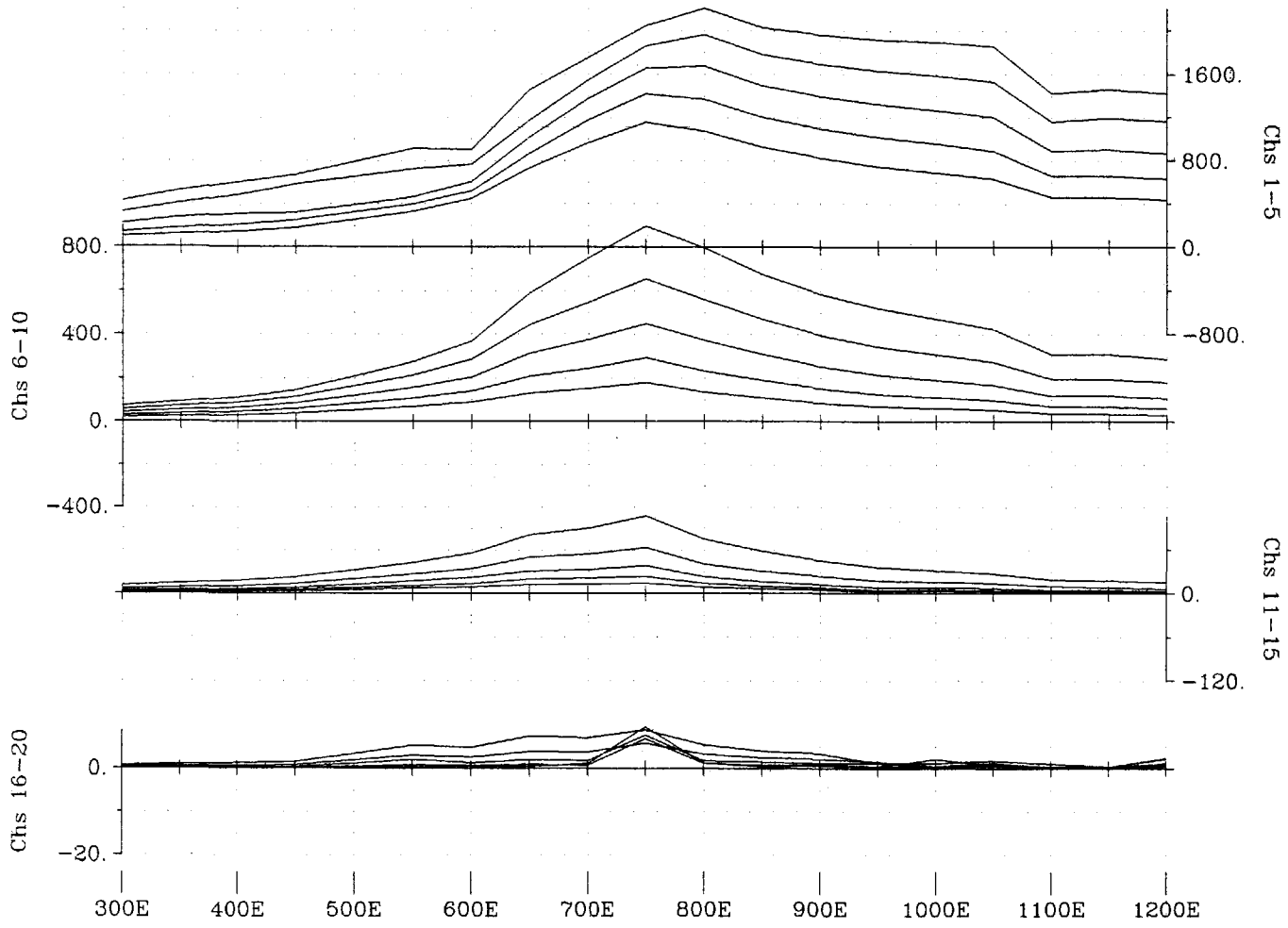
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-10+00N



Line 10+00N – Total Field

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

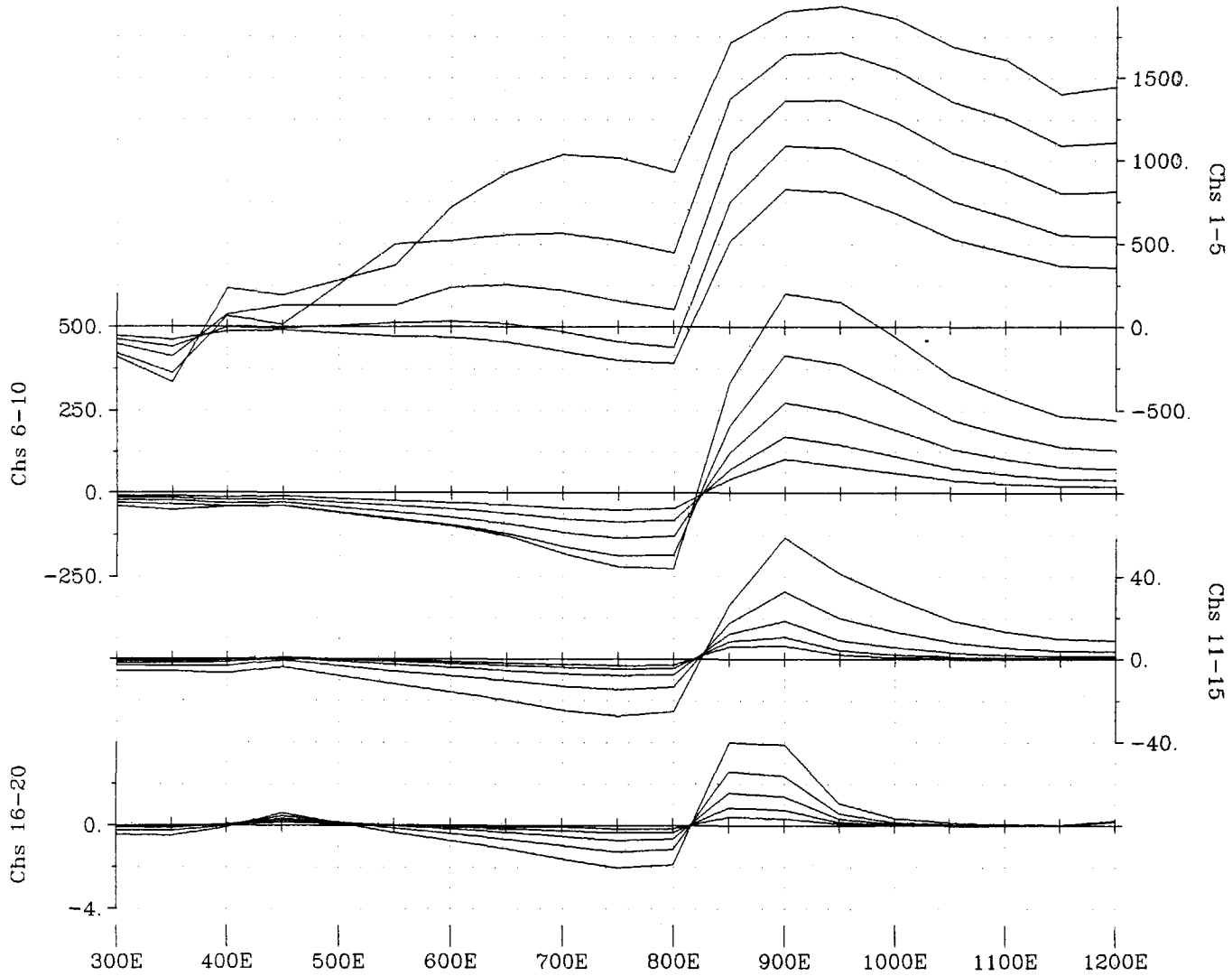
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-10+00N



Line 12+00N – Z Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

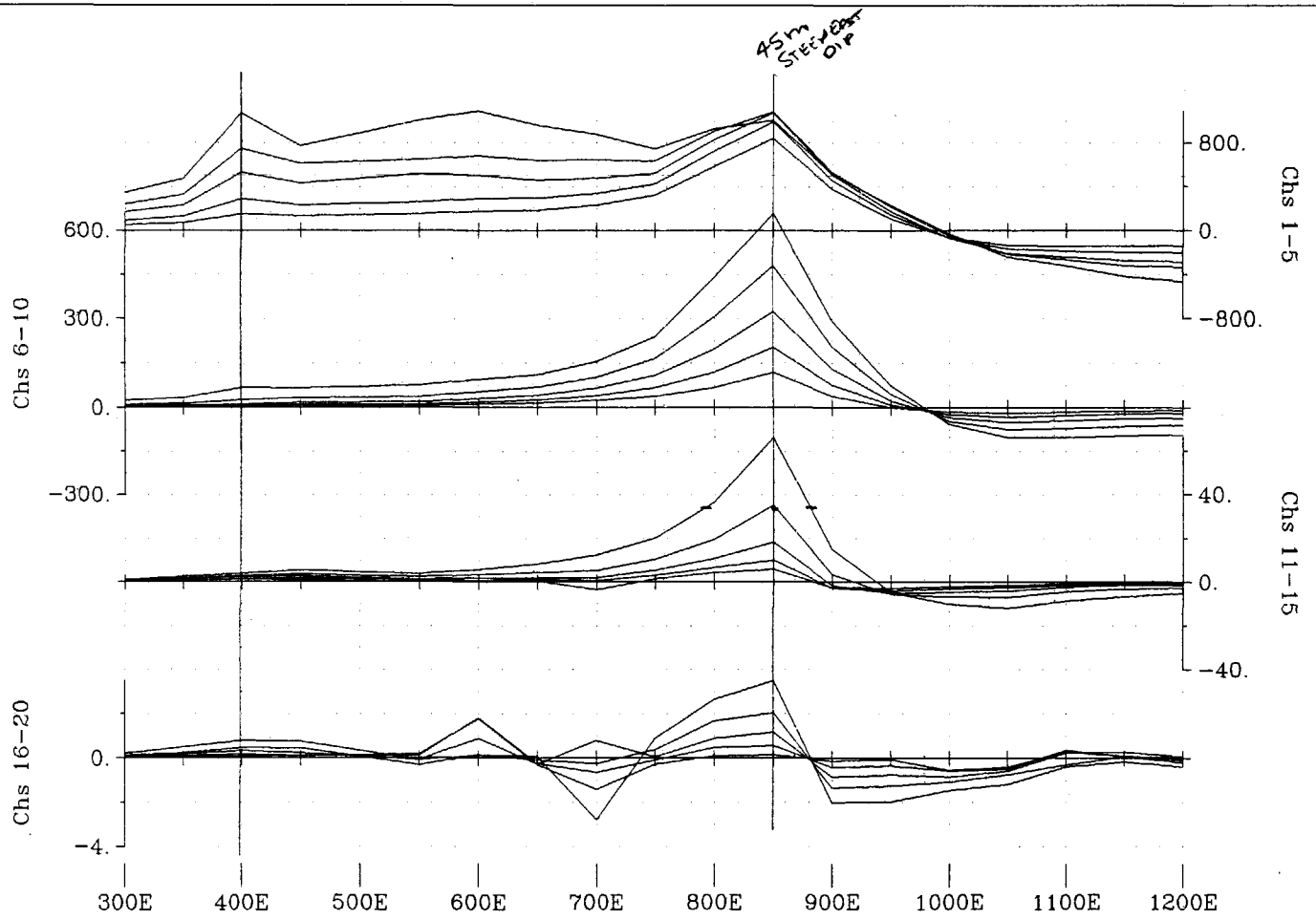
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-12+00N



Line 12+00N – X Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

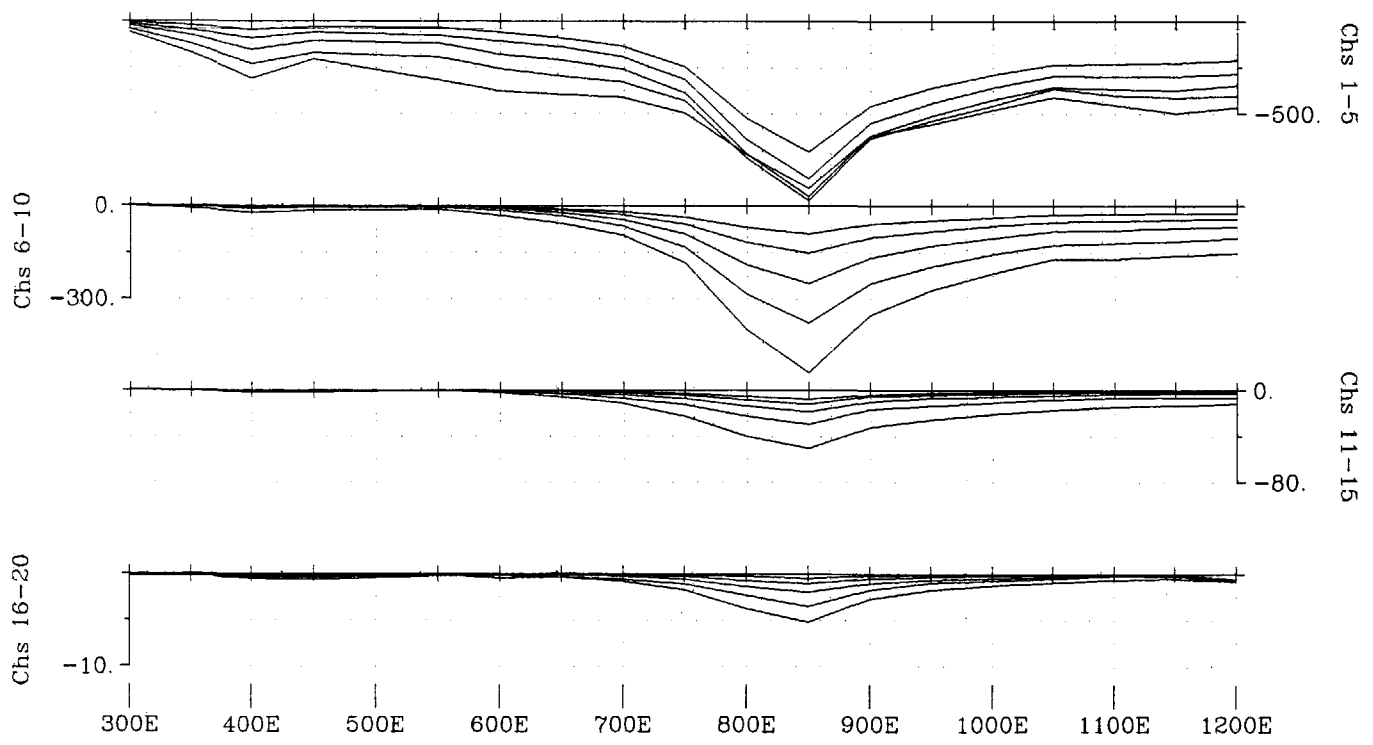
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A-m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-12+00N



Line 12+00N – Y Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

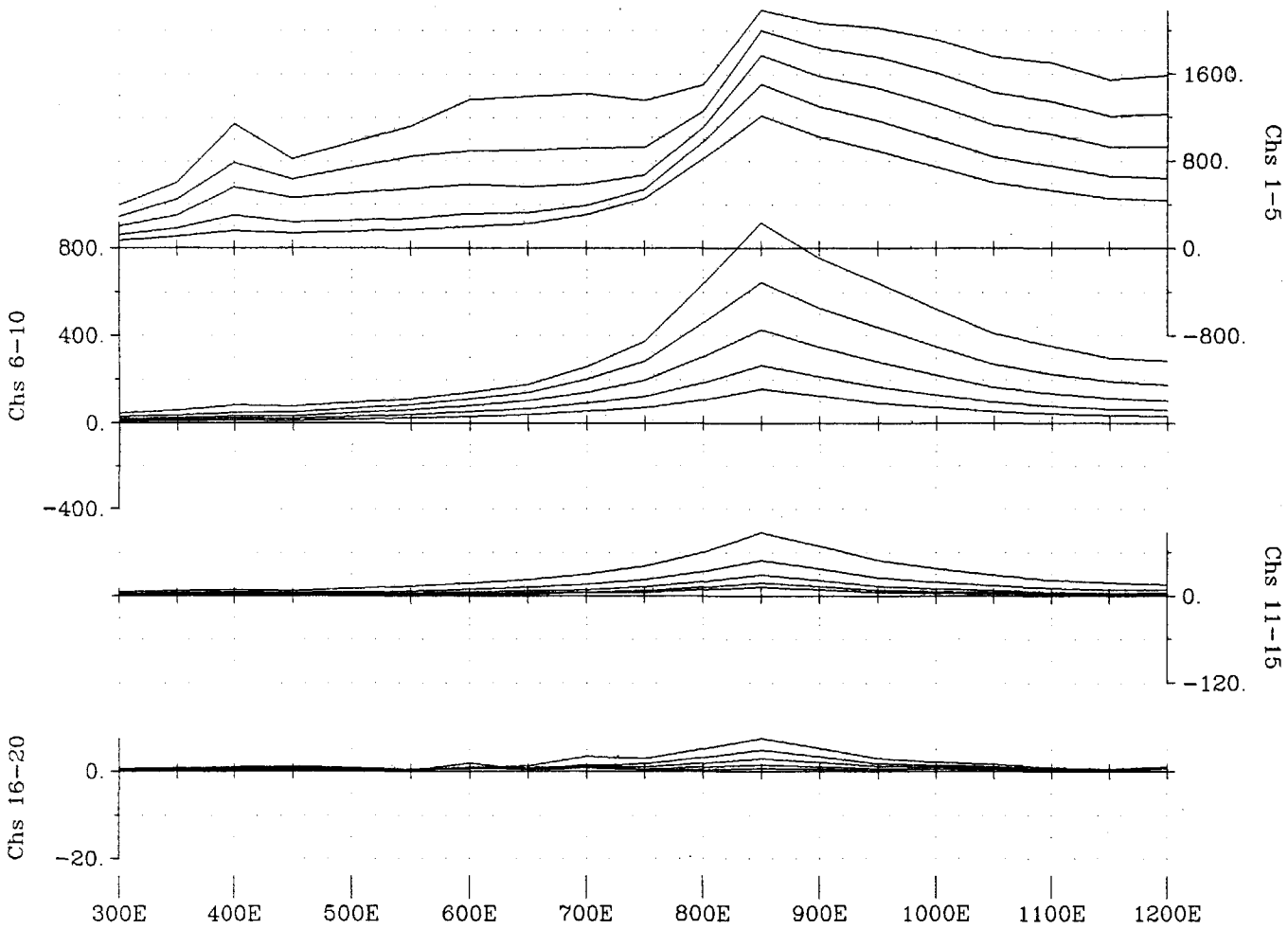
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-12+00N



Line 12+00N – Total Field

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

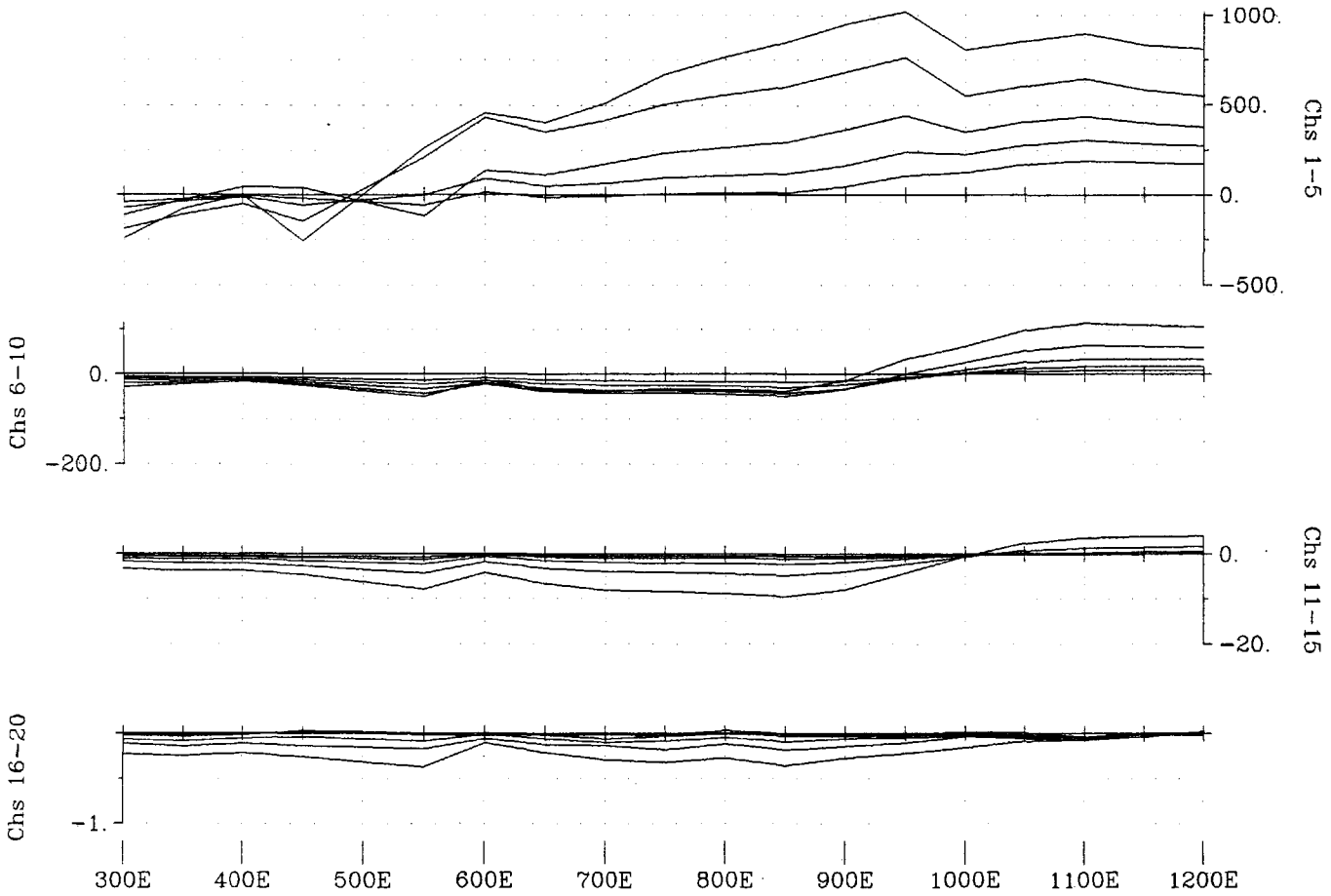
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz – positive up
	Hx – positive west
	Hy – positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-12+00N



Line 14+00N – Z Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

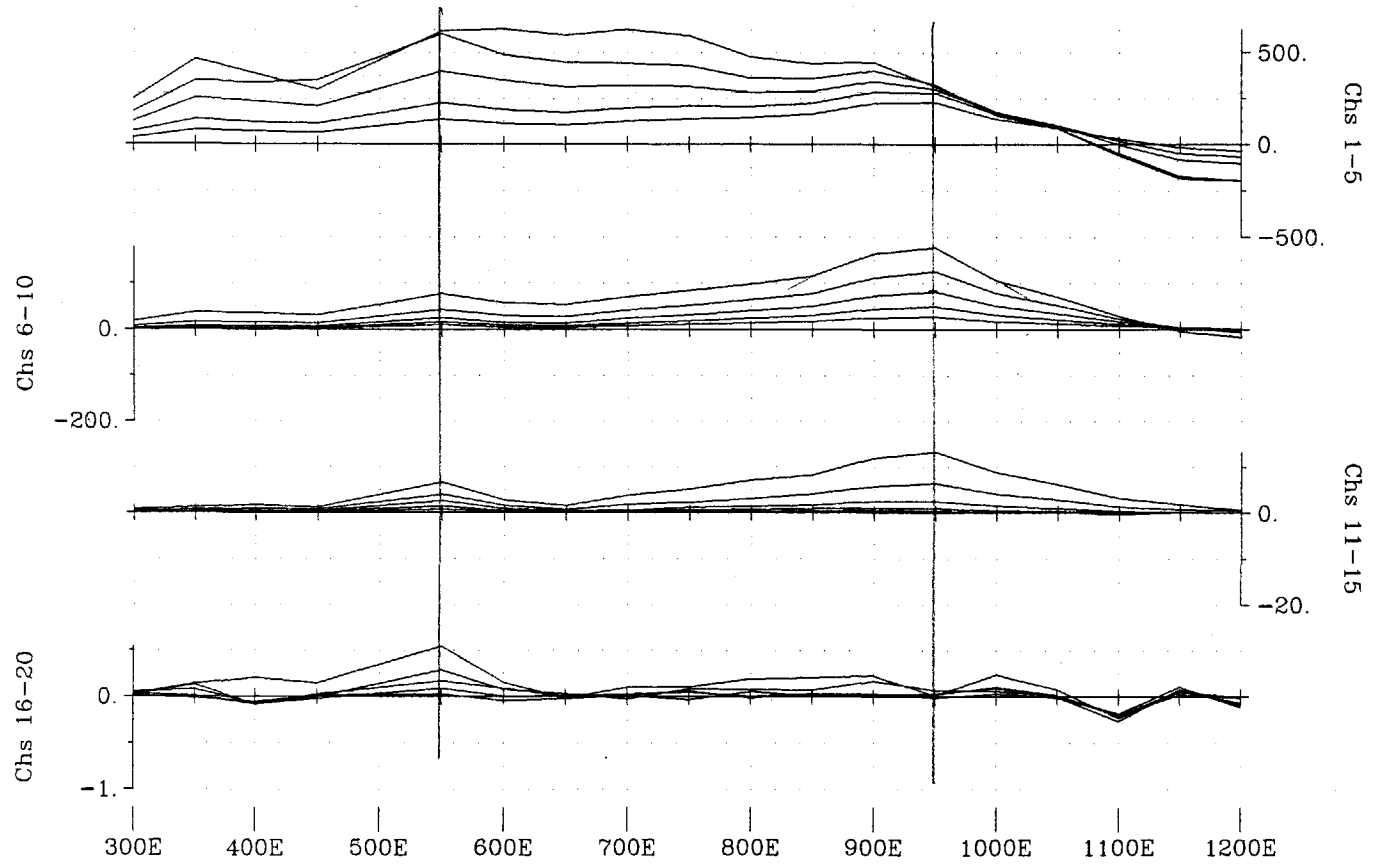
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-8+00N



Line 14+00N – X Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

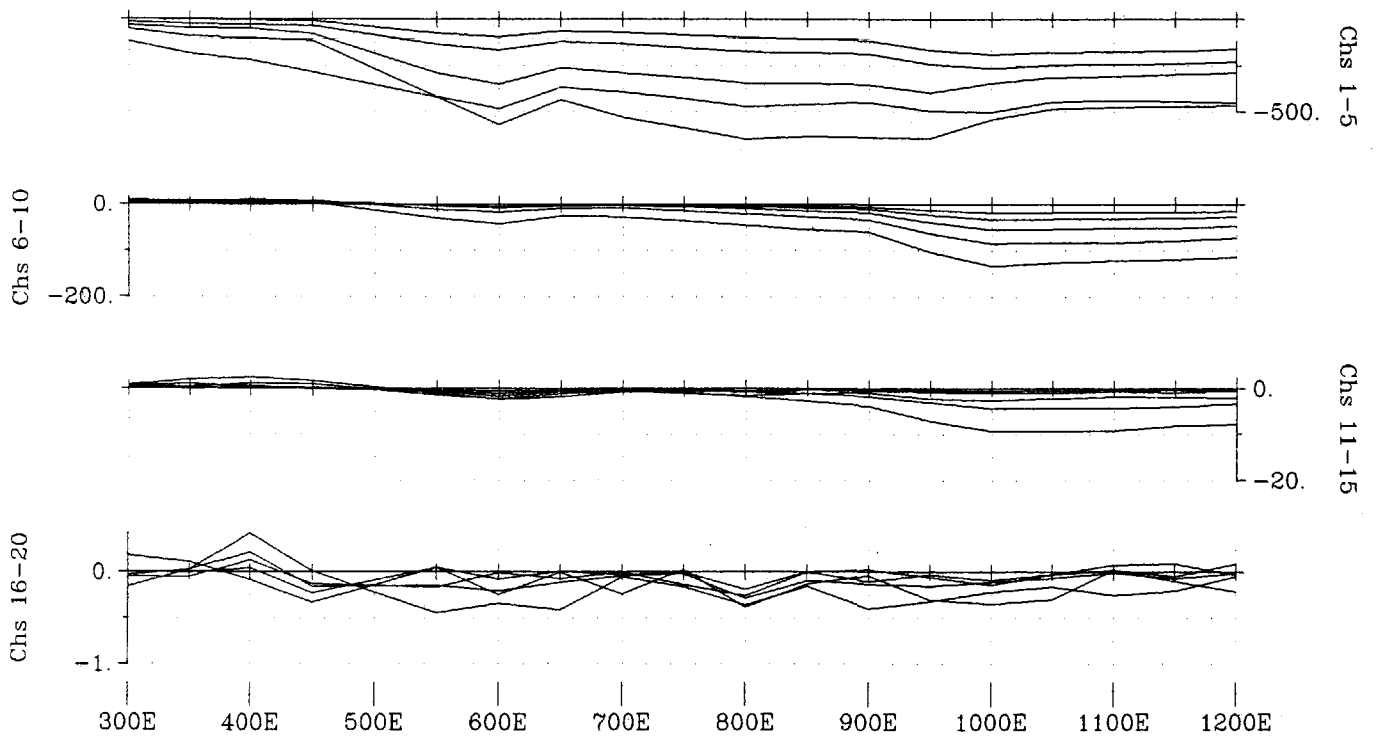
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-8+00N



Line 14+00N – Y Component

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

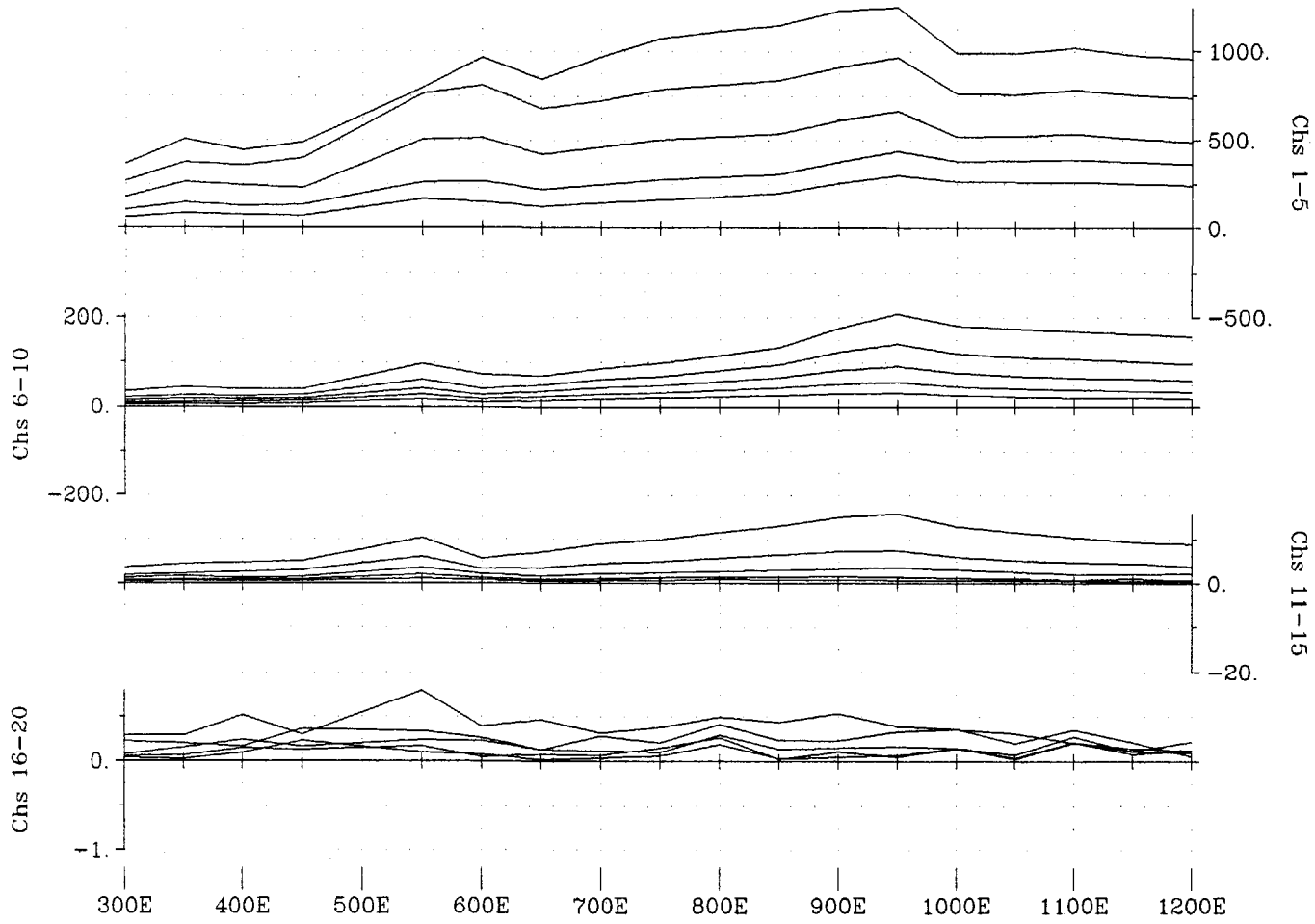
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-8+00N



Line 14+00N – Total Field

LOOP 4

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

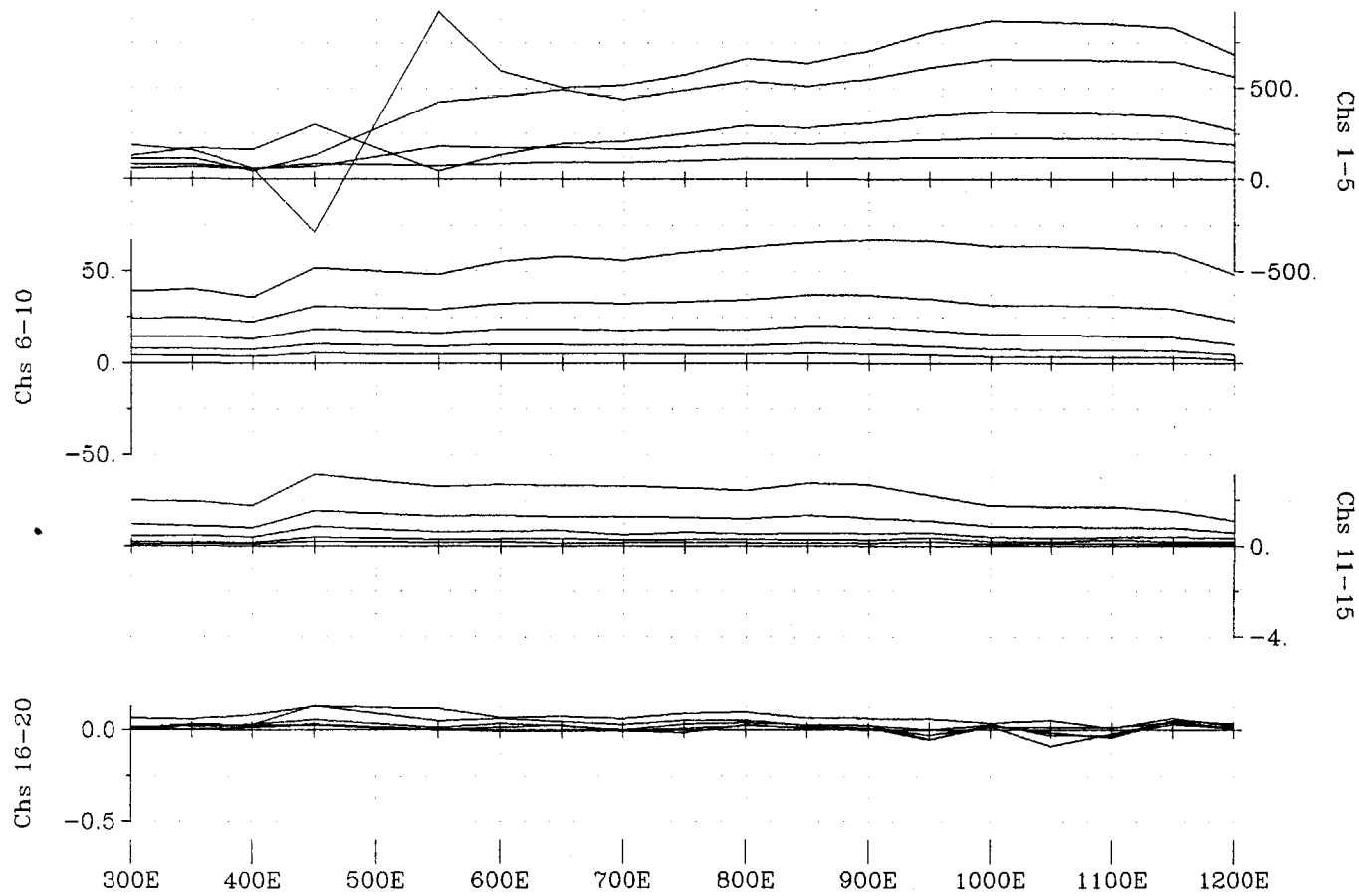
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L4N to L16N & TL5E to TL15E
Transmitter Current:	8.5 Amps
Transmitter Turn-Off Time:	355 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 28, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-8+00N



Line 16+00N – Z Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

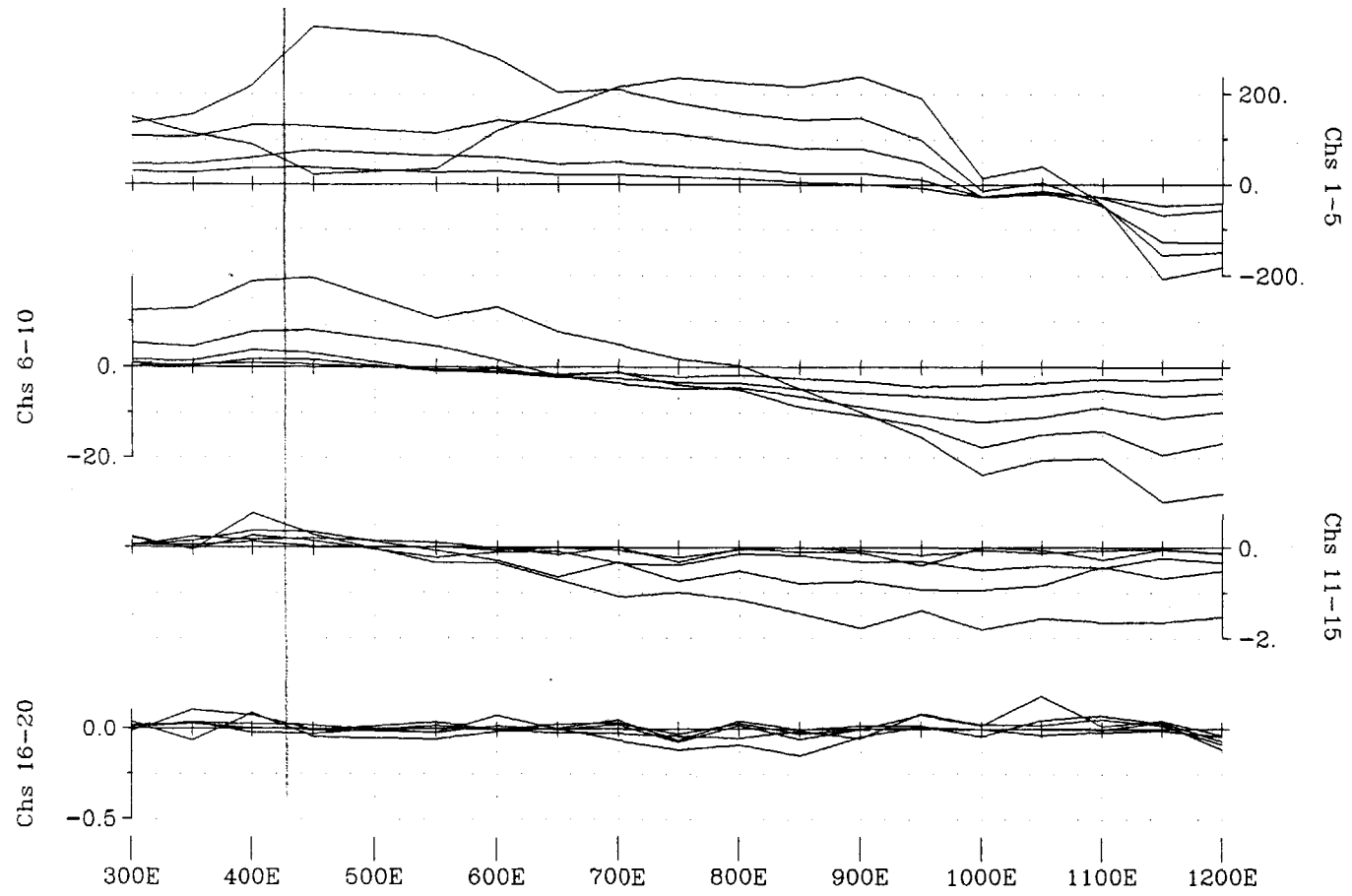
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Z-16+00N



Line 16+00N – X Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

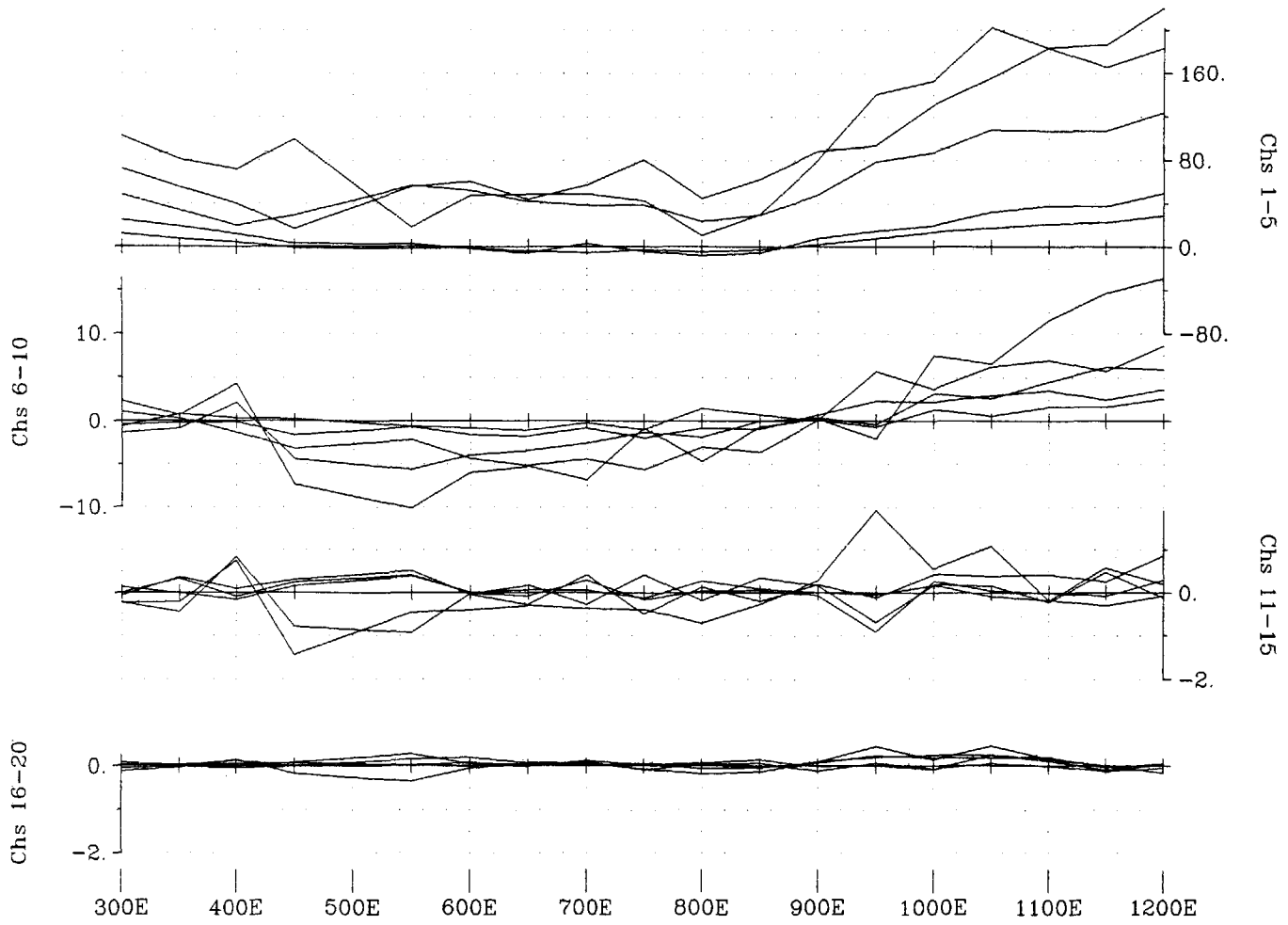
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Awm^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-X-16+00N



Line 16+00N – Y Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

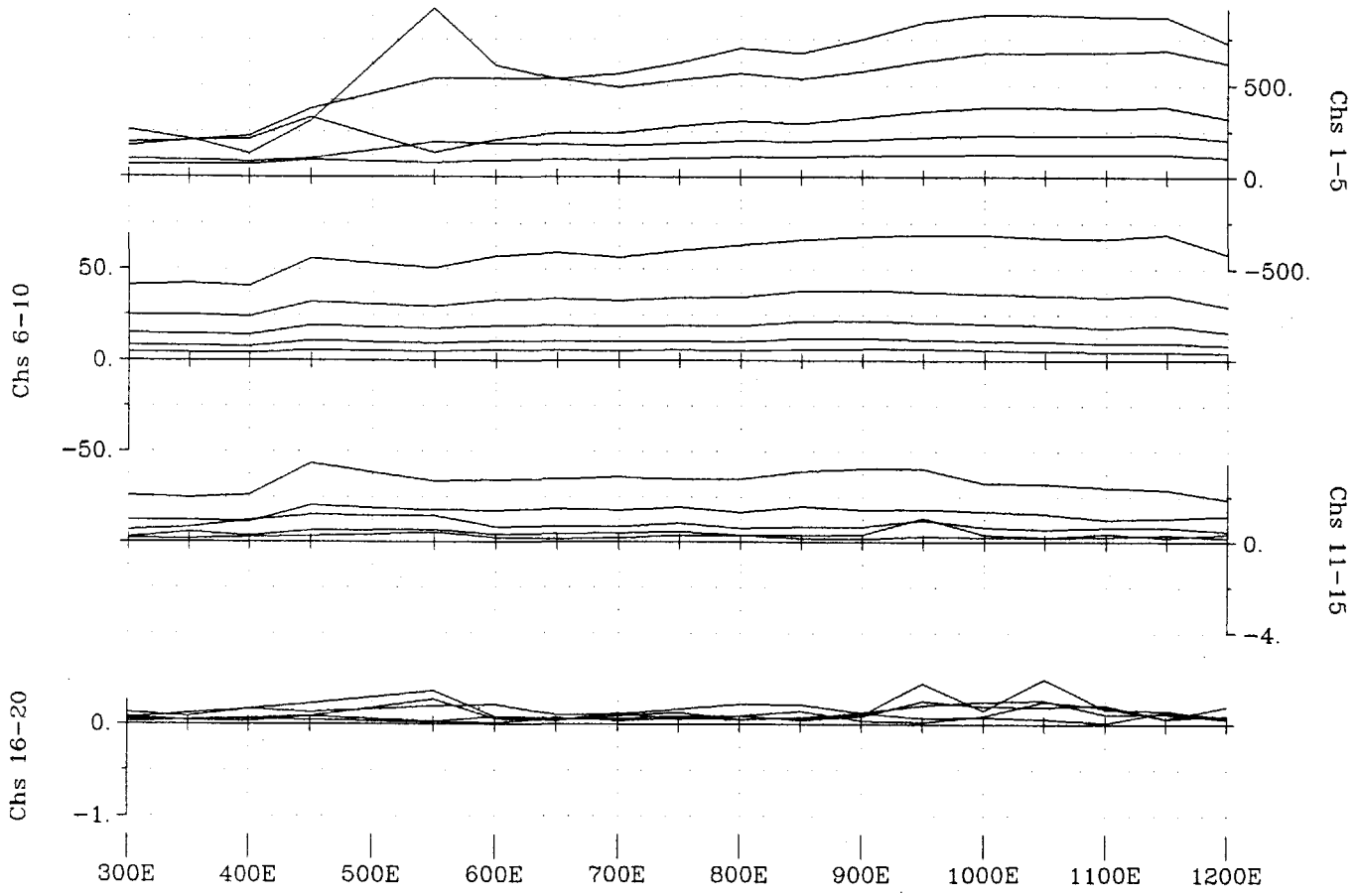
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Y-16+00N



Line 16+00N – Total Field

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

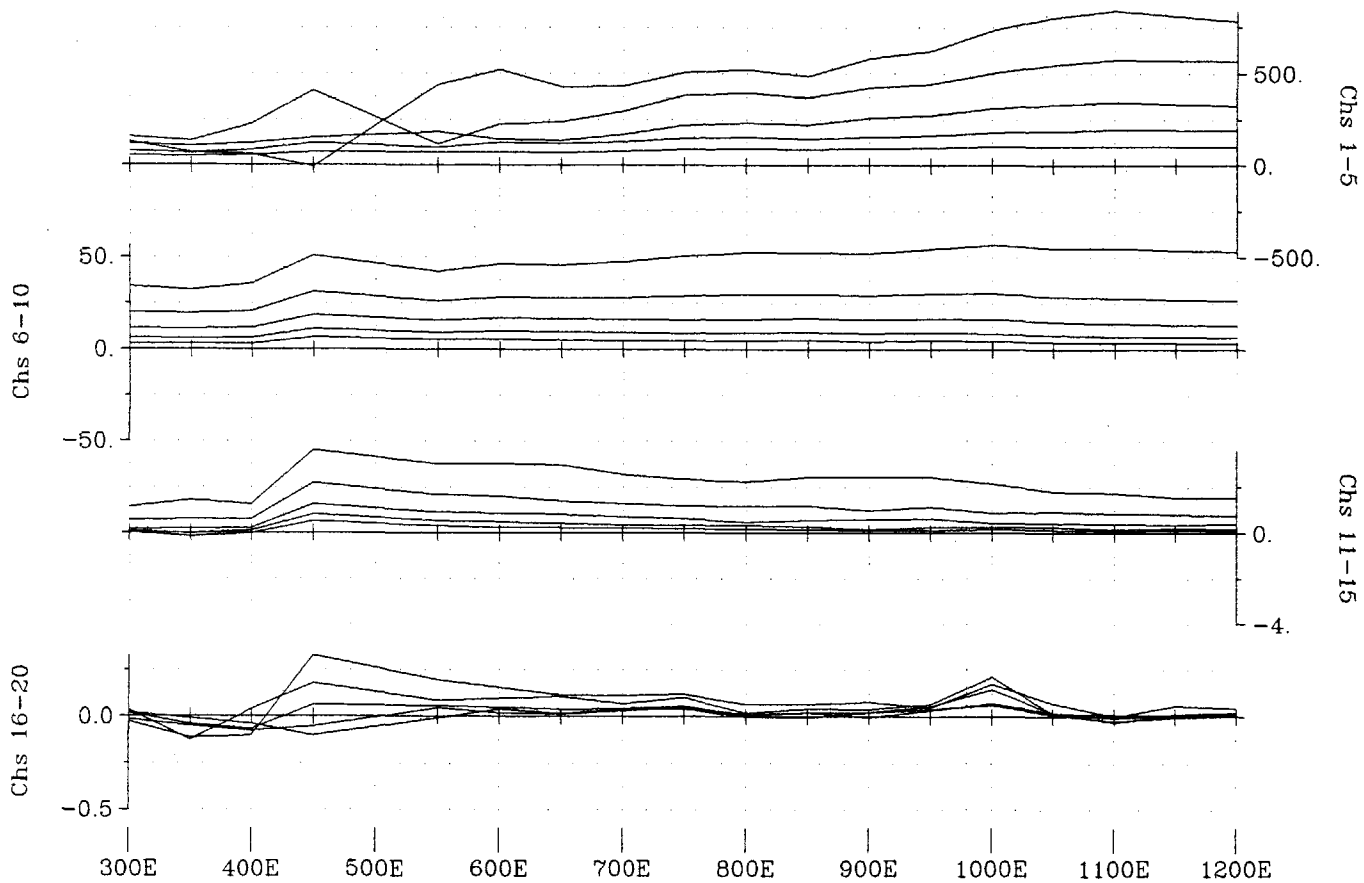
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem-2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-TF-16+00N



Line 18+00N – Z Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

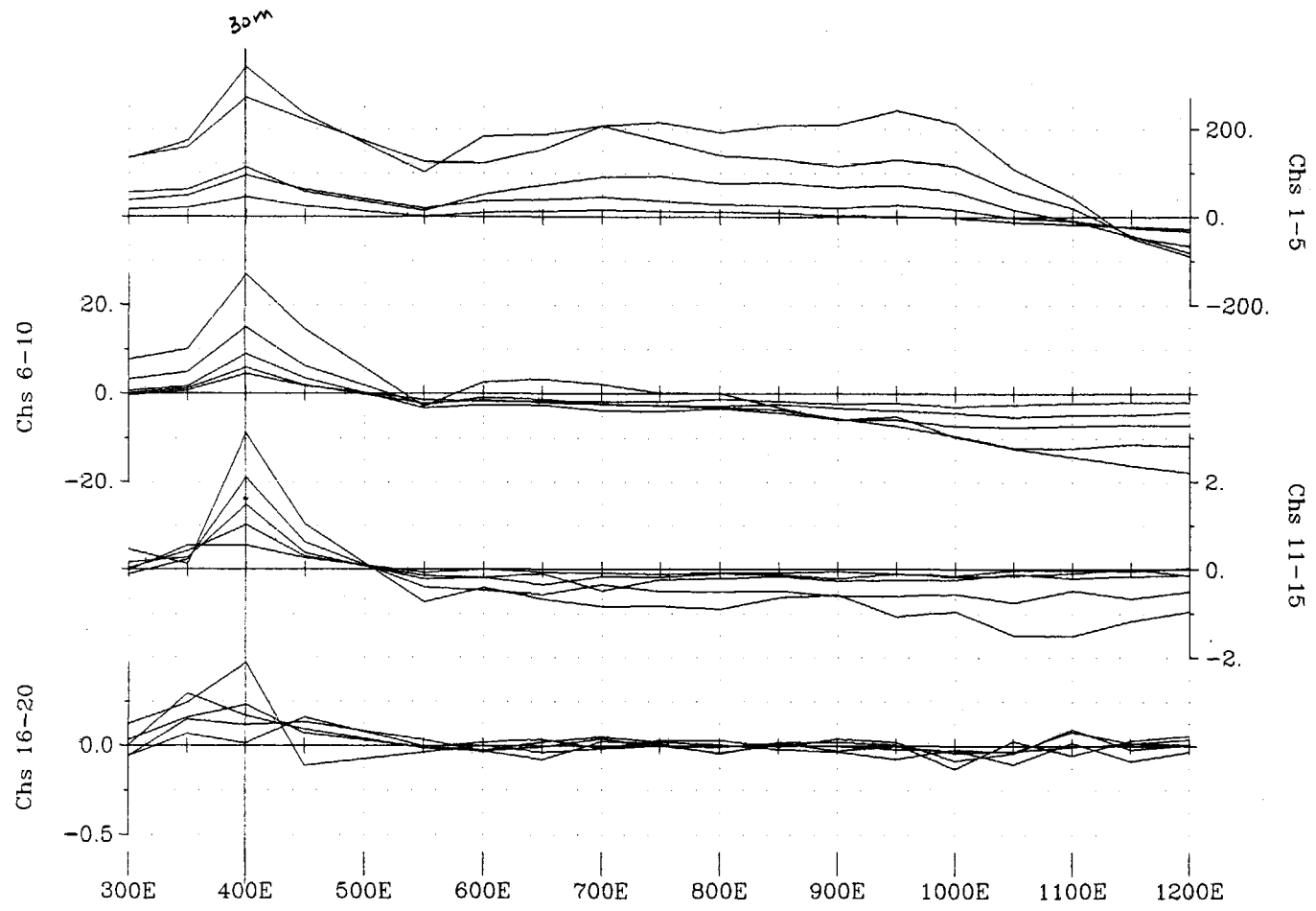
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz – positive up Hx – positive west Hy – positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Z-18+00N



Line 18+00N – X Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

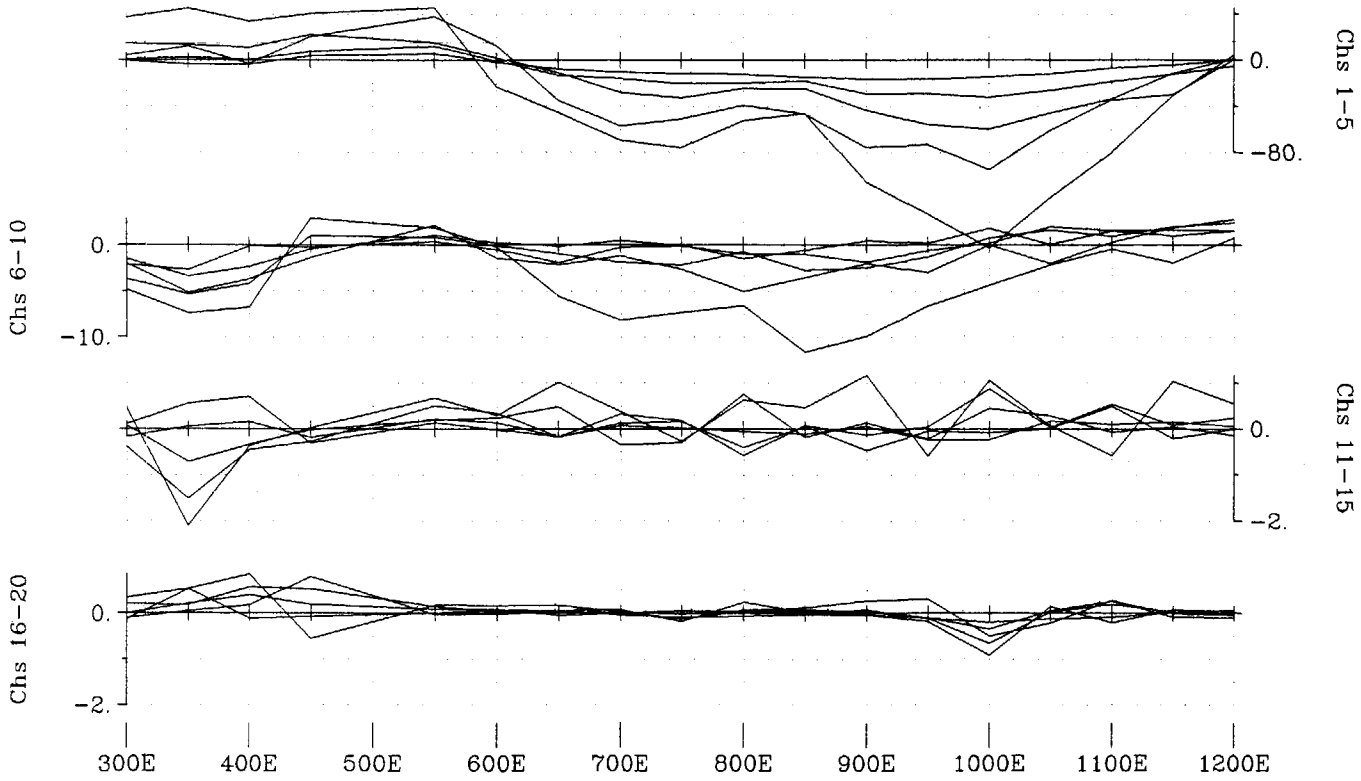
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-X-18+00N



Line 18+00N – Y Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

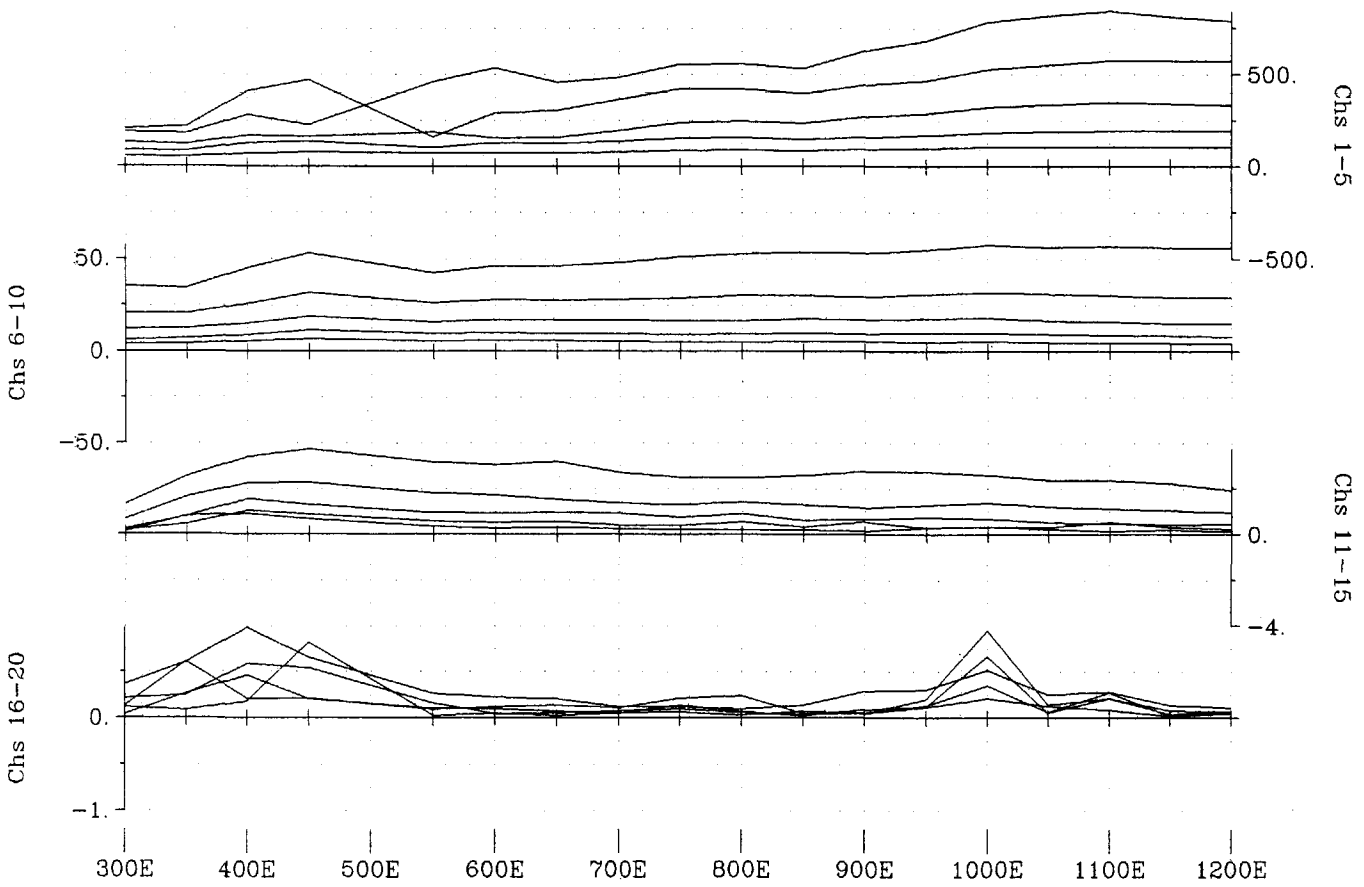
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A=m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Y-18+00N



Line 18+00N – Total Field

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

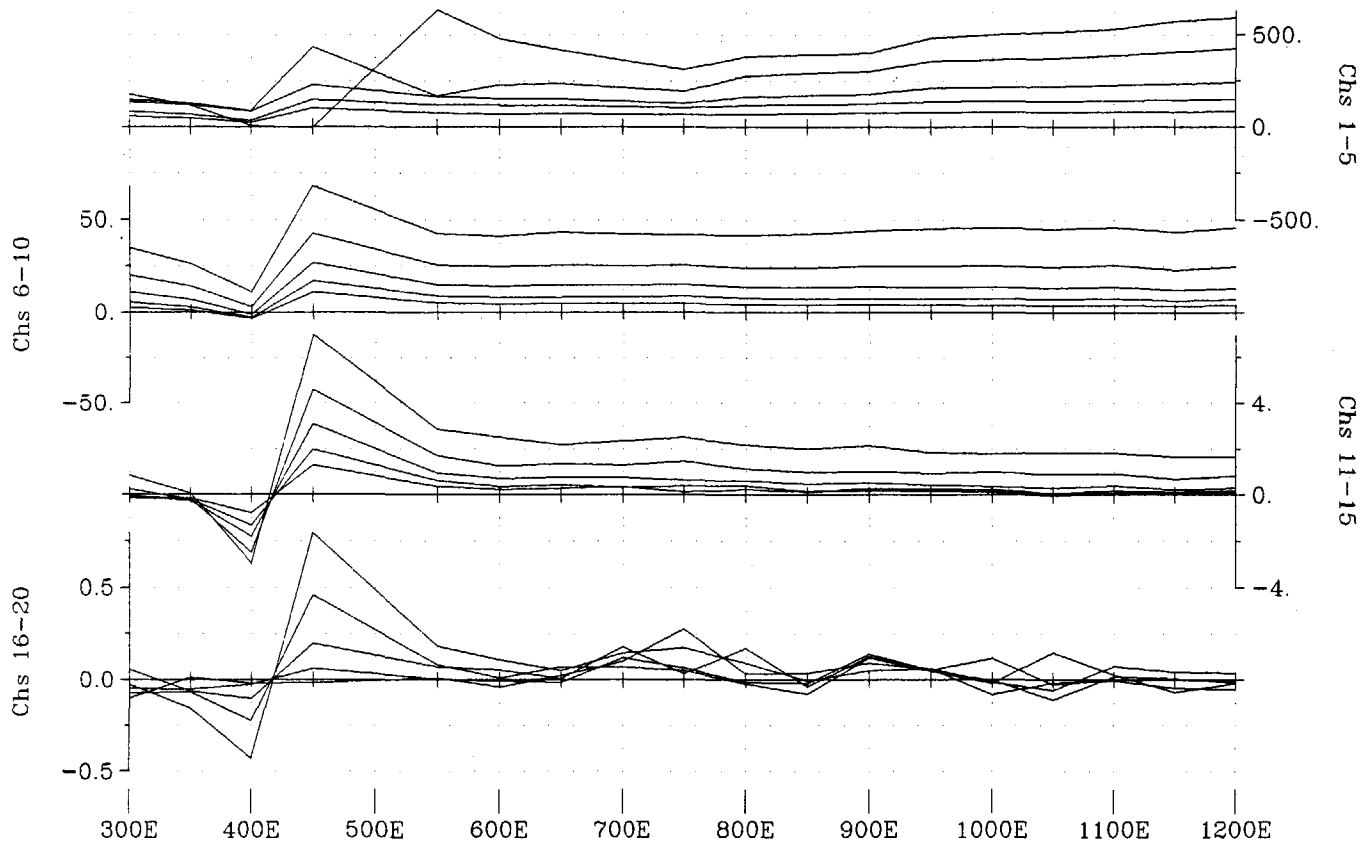
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Asrm^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-TF-18+00N



Line 20+00N – Z Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

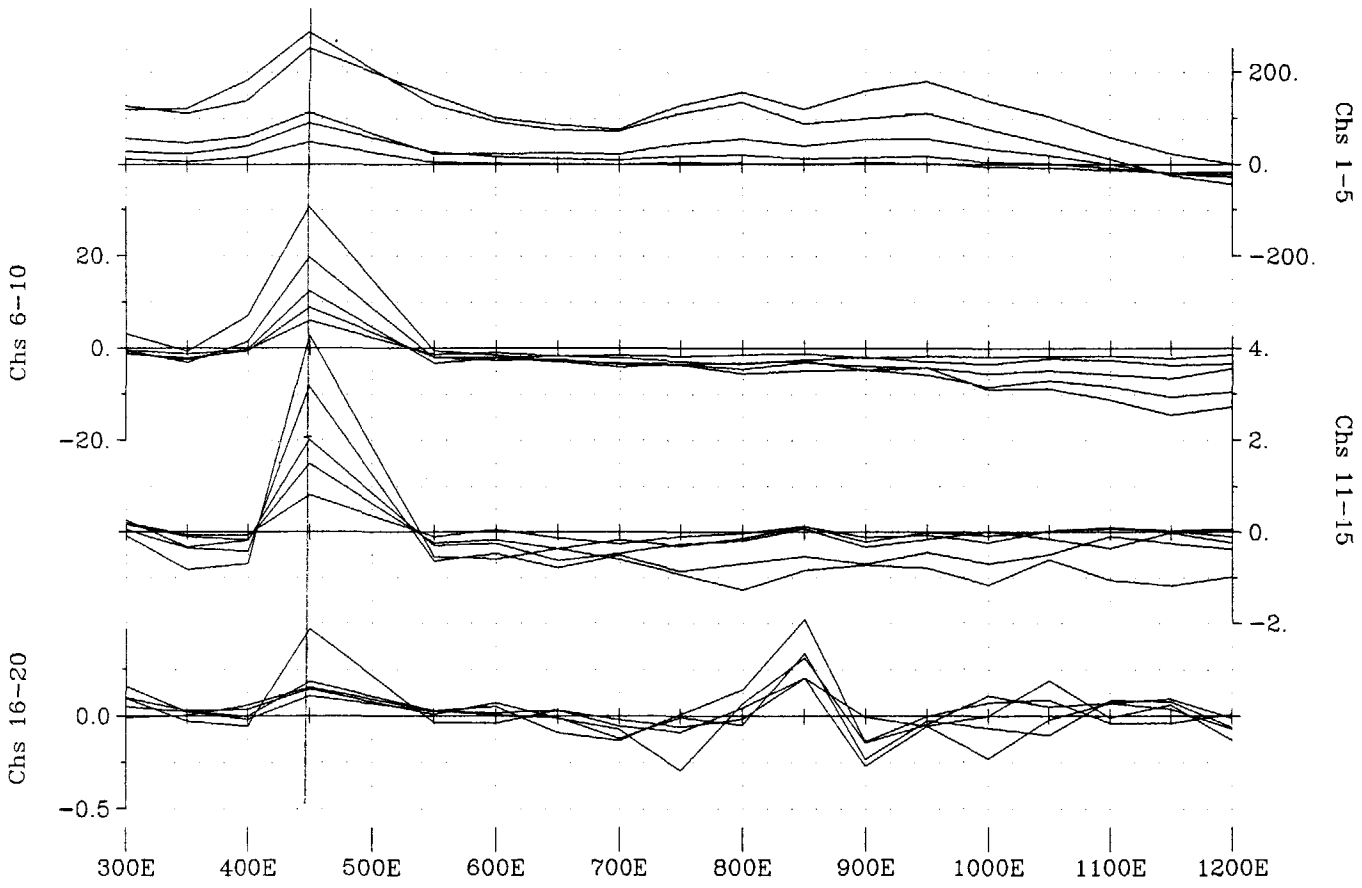
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz – positive up
	Hx – positive west
	Hy – positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Z-20+00N



Line 20+00N – X Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

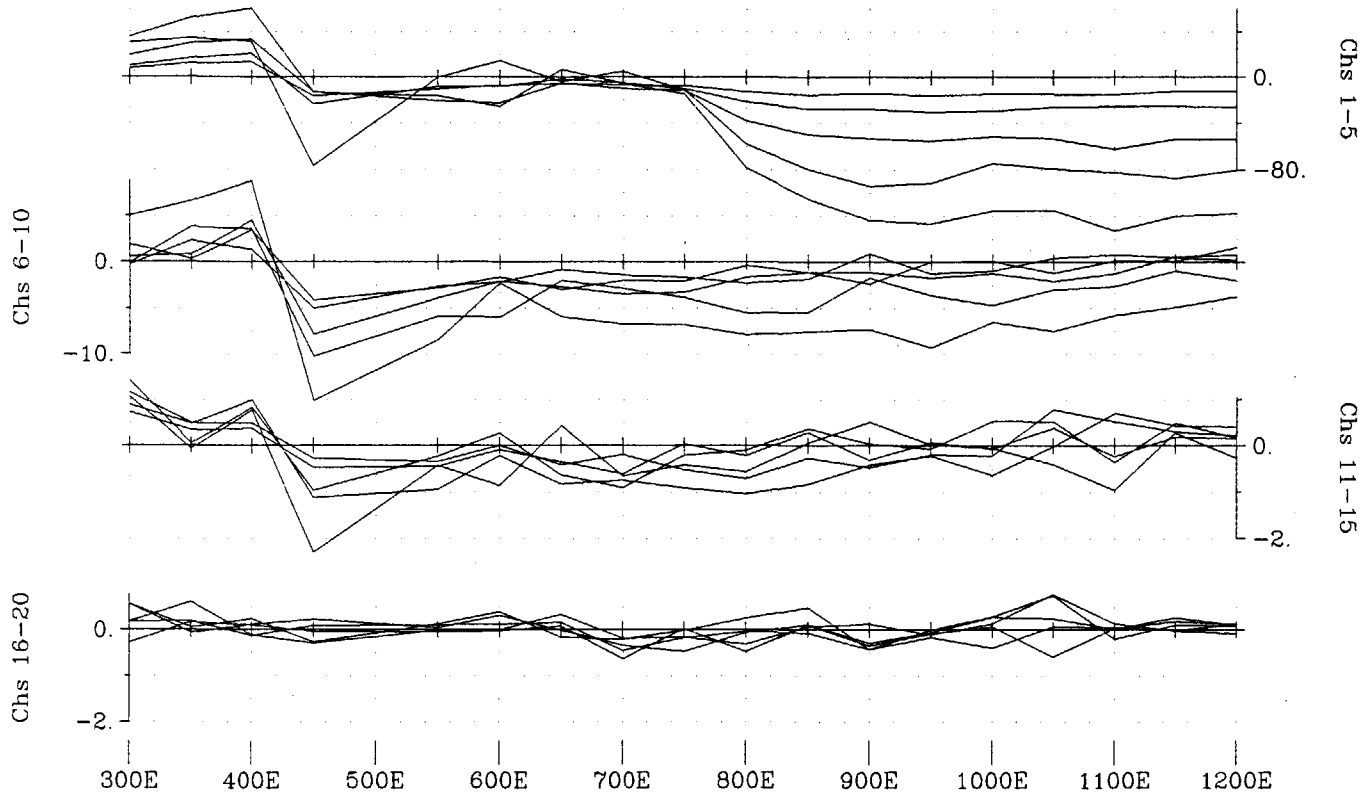
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz – positive up
	Hx – positive west
	Hy – positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-X-20+00N



Line 20+00N – Y Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

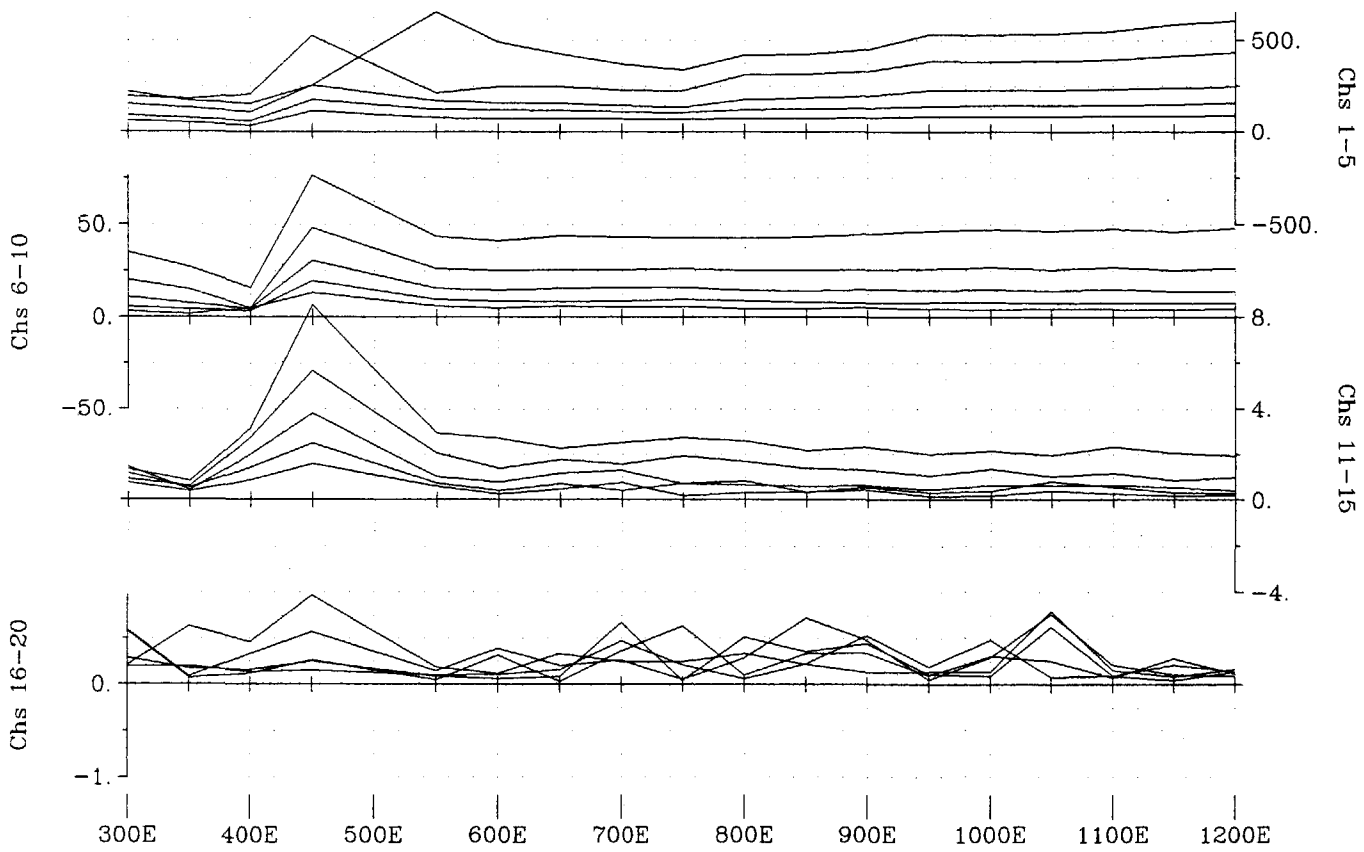
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Y-20+00N



Line 20+00N – Total Field

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

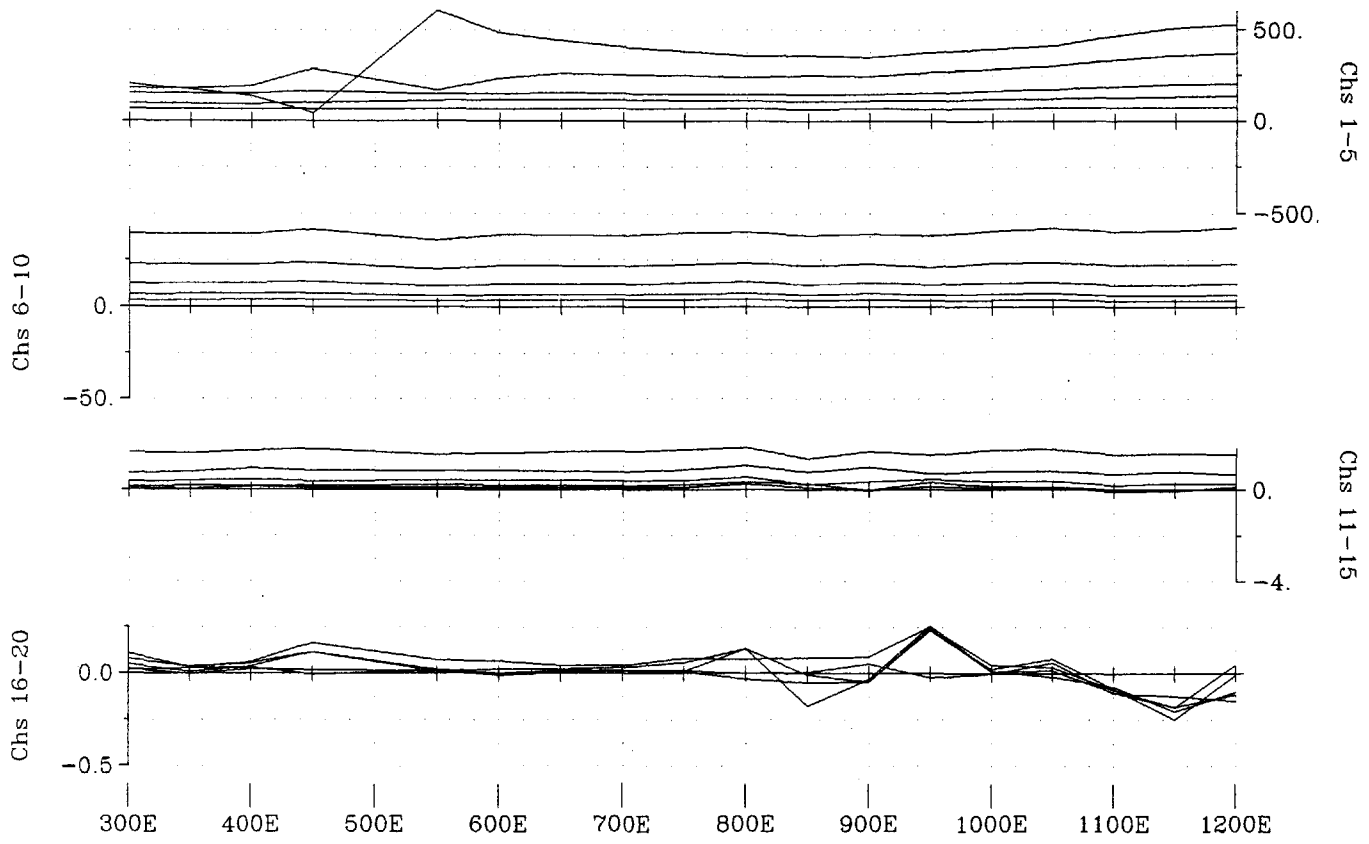
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-TF-20+00N



Line 22+00N – Z Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

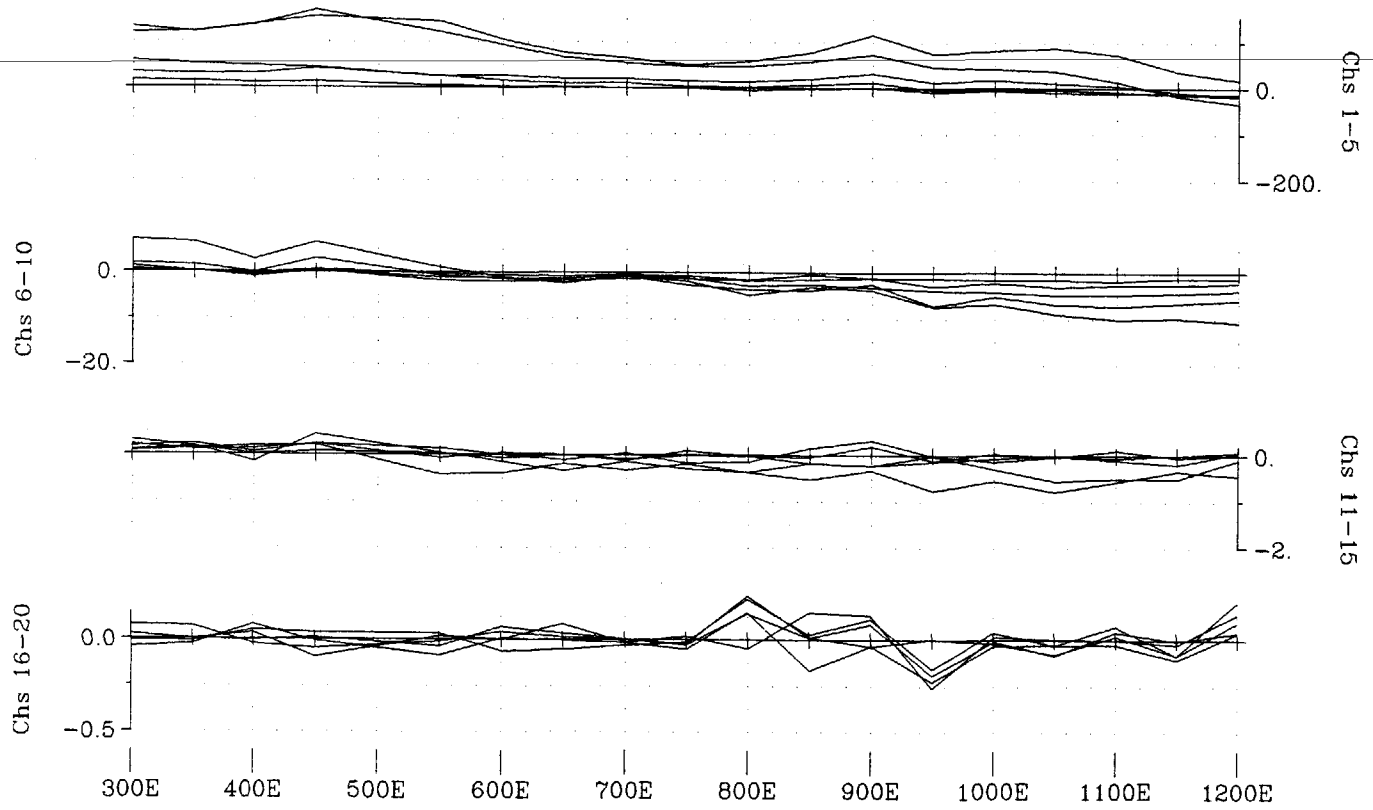
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Asm^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Z-22+00N



Line 22+00N - X Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

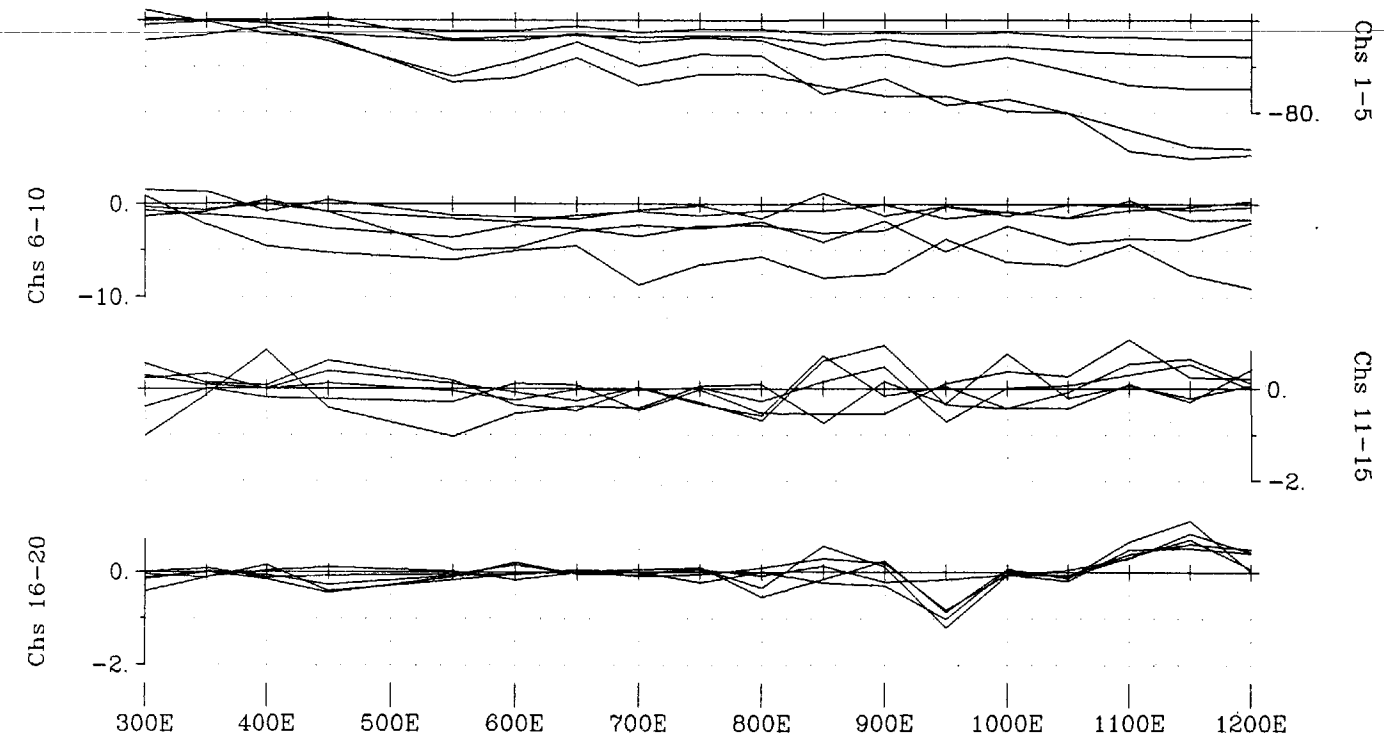
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-X-22+00N



Line 22+00N – Y Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

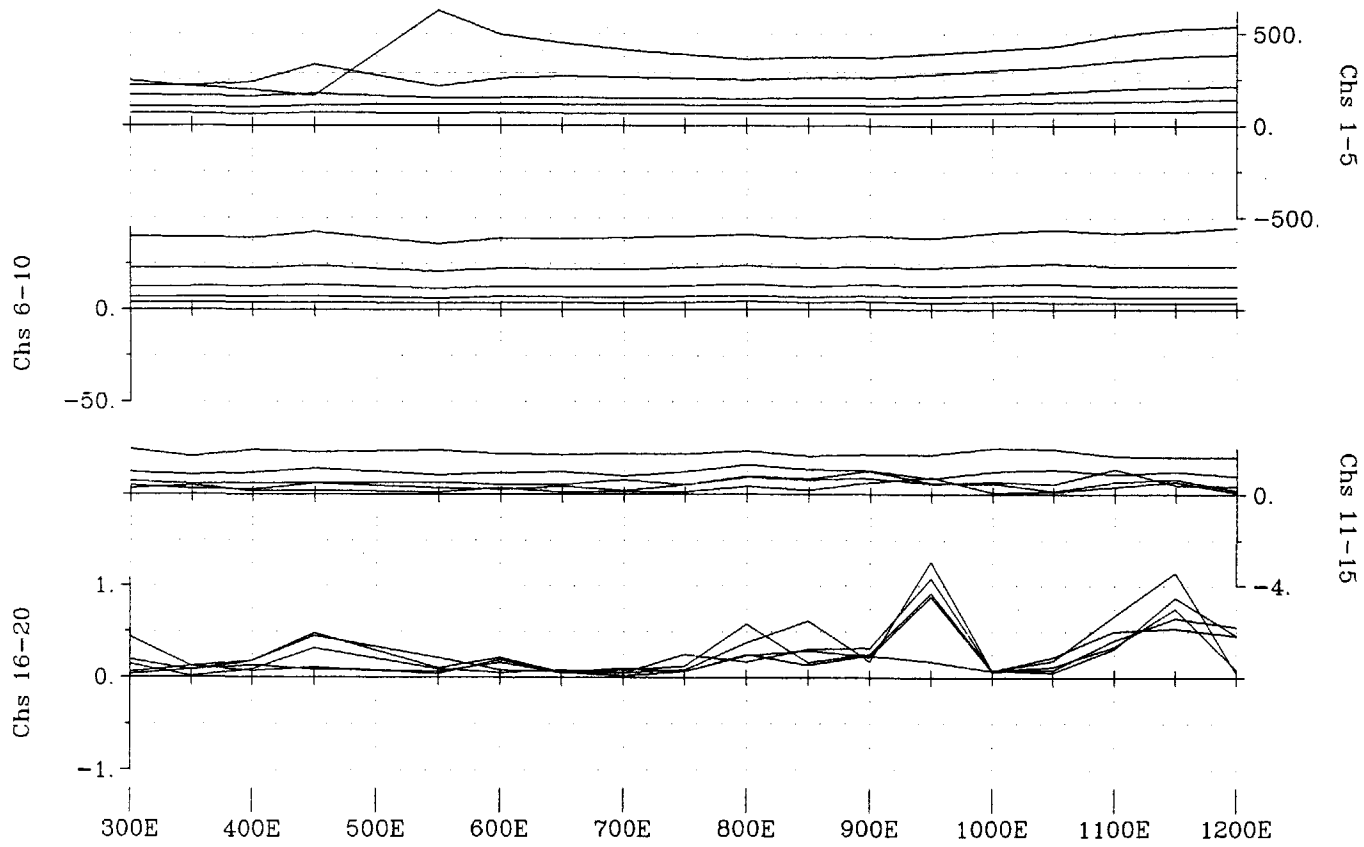
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz – positive up
	Hx – positive west
	Hy – positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Y-22+00N



Line 22+00N – Total Field

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

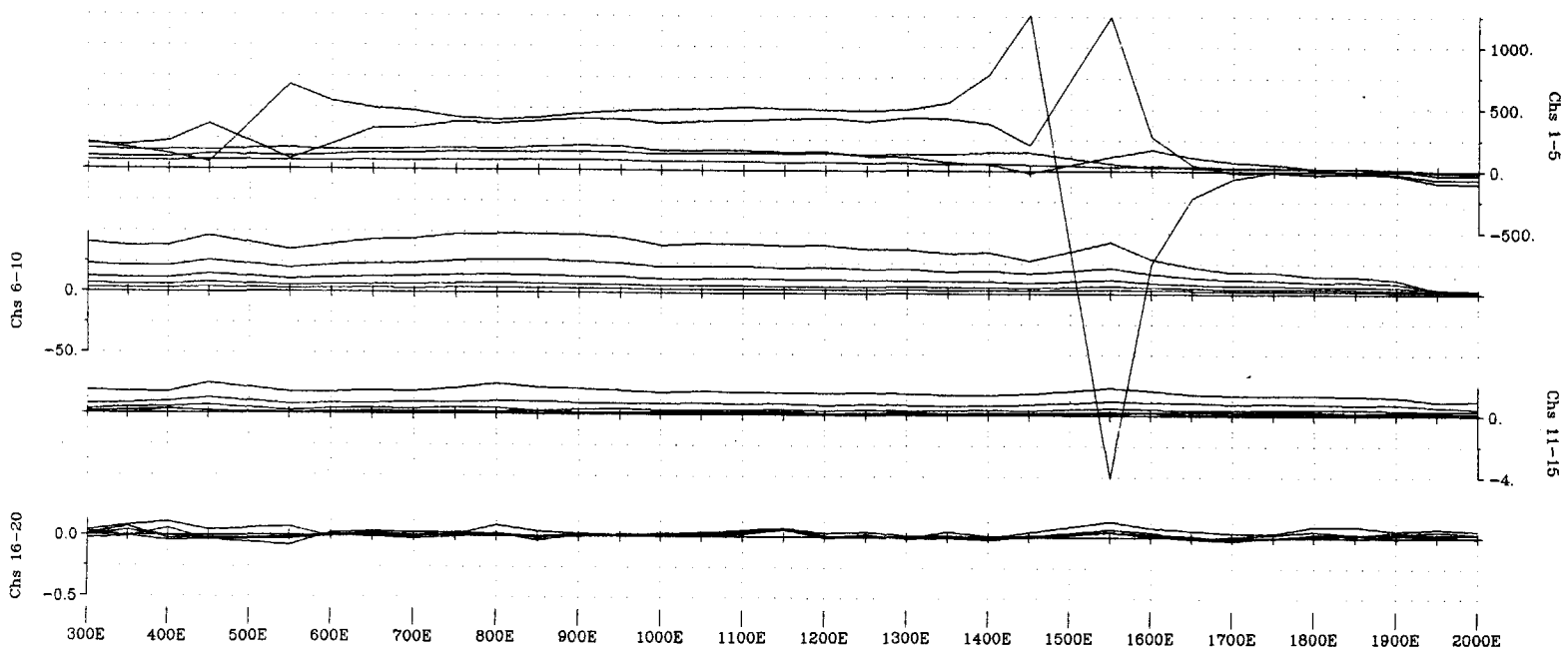
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-TF-22+00N



Line 24+00N – Z Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

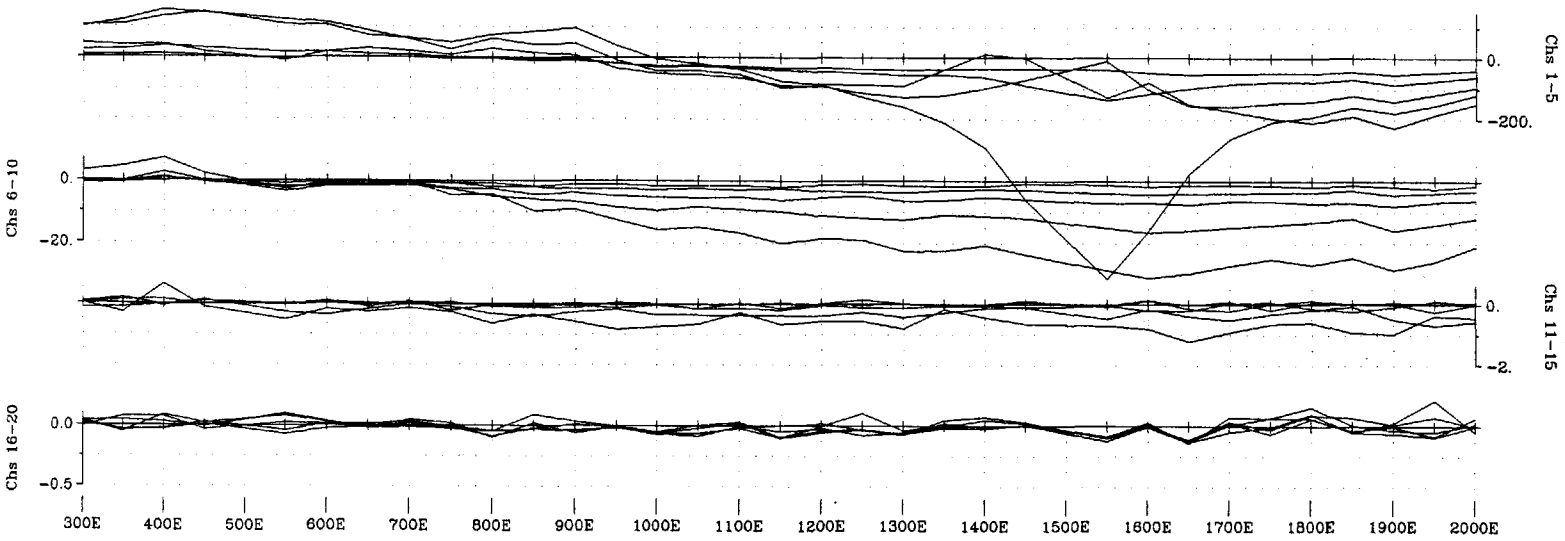
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVo.t/Aem^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx - Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx - Geonics EM-37 (2.5 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Z-24+00N



Line 24+00N – X Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

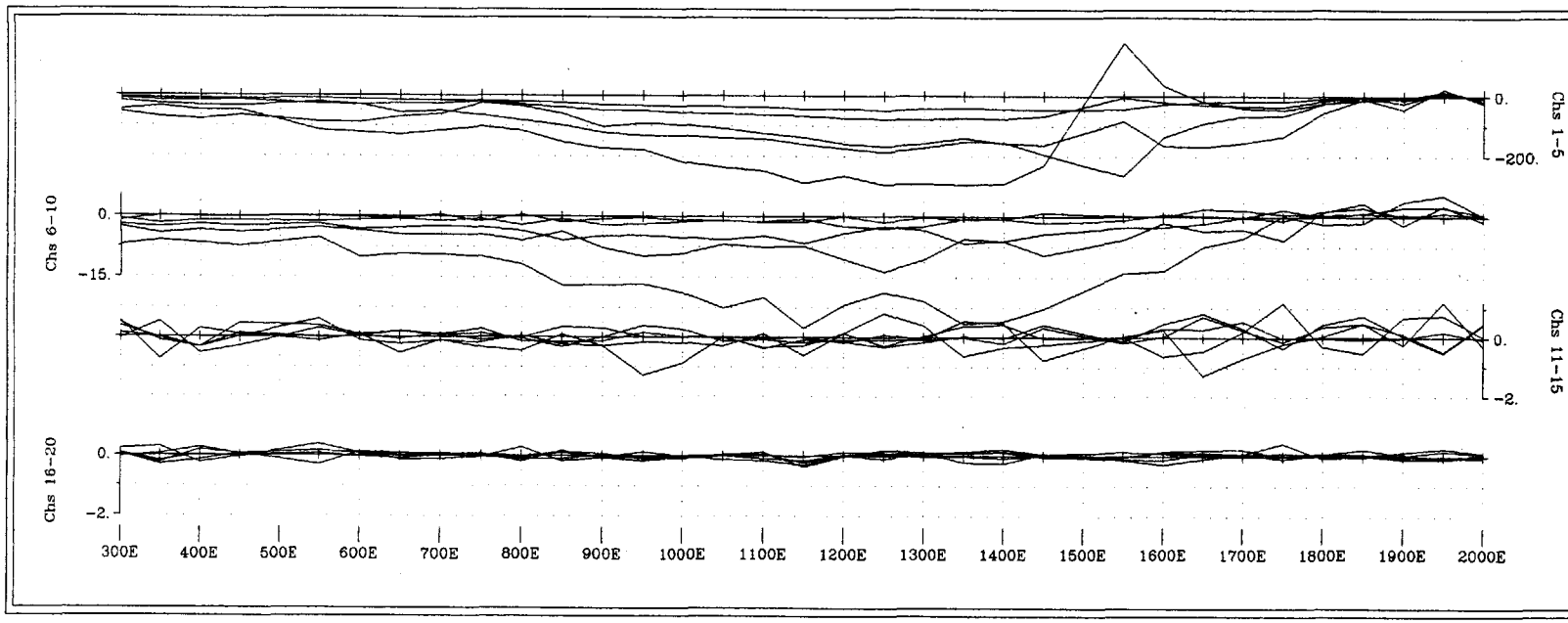
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-X-24+00N



Line 24+00N – Y Component

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

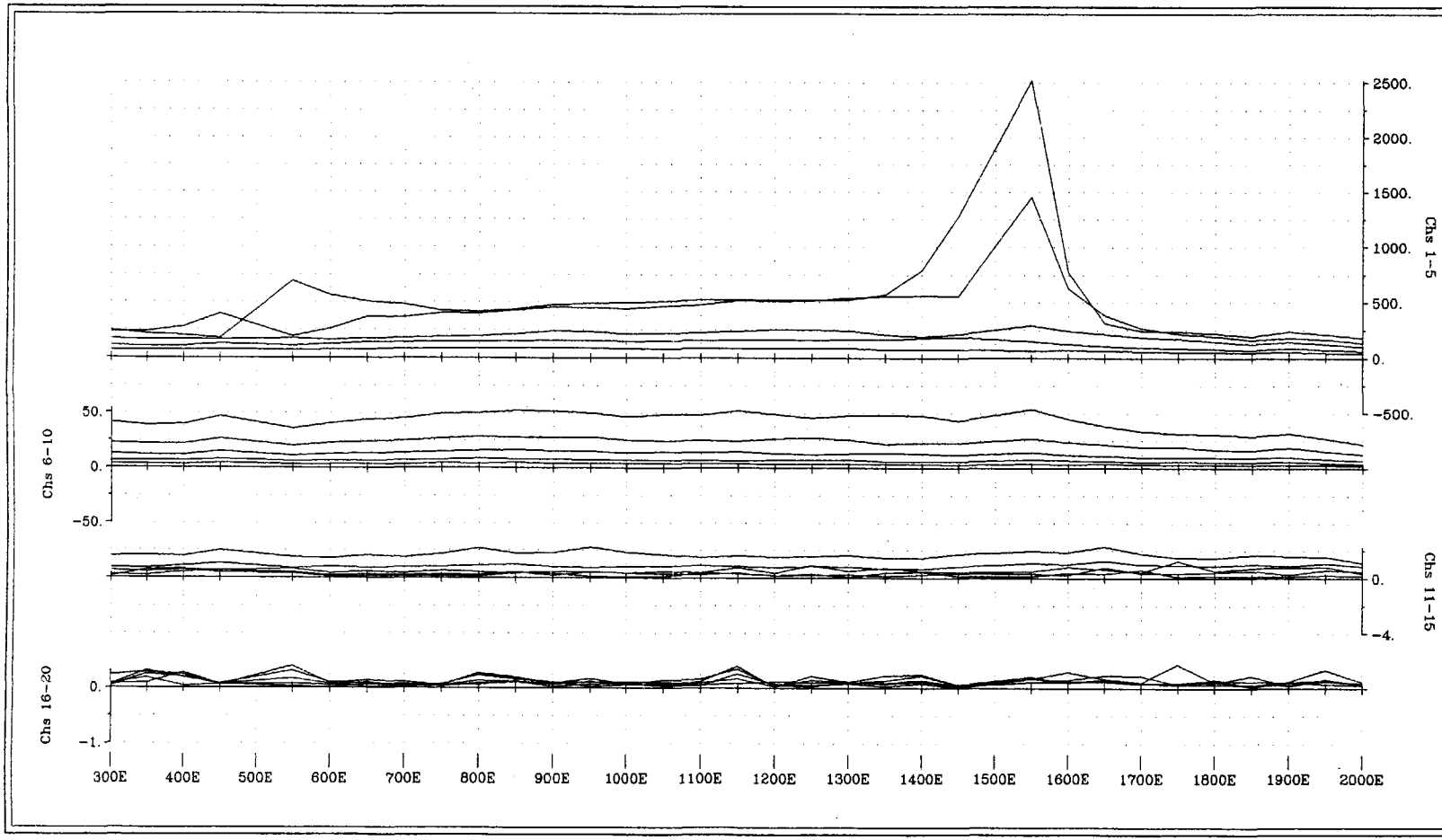
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L26N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Amm^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 30 Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-Y-24+00N



Line 24+00N - Total Field

LOOP 5

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

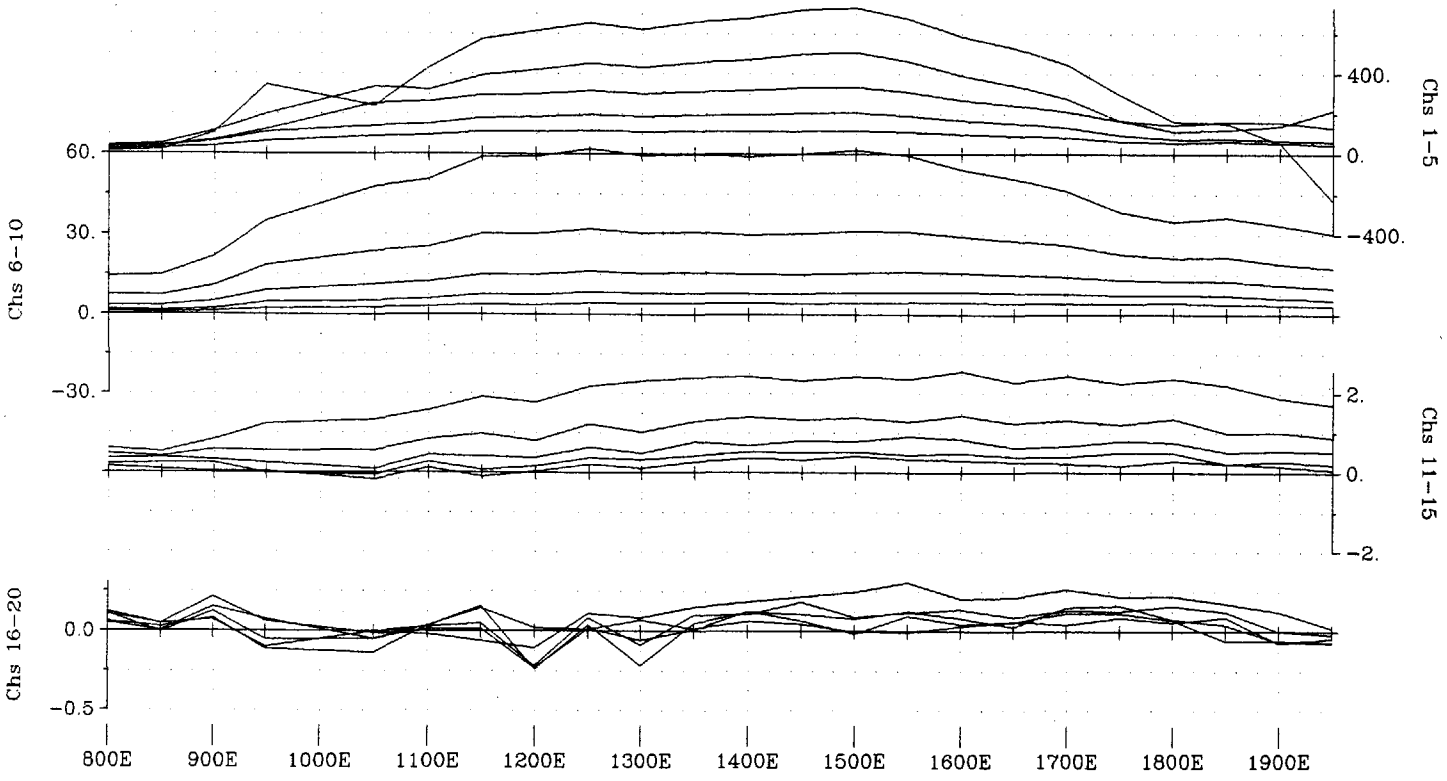
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L14N to L28N & 5+00E to 15+00E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	350 us
Station Interval:	50 meters
Profile Units:	nanoVo.t/Aerrr2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 27, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200mr2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-345-4AXIS-TF-24+00N



Line 14+00N – Z Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

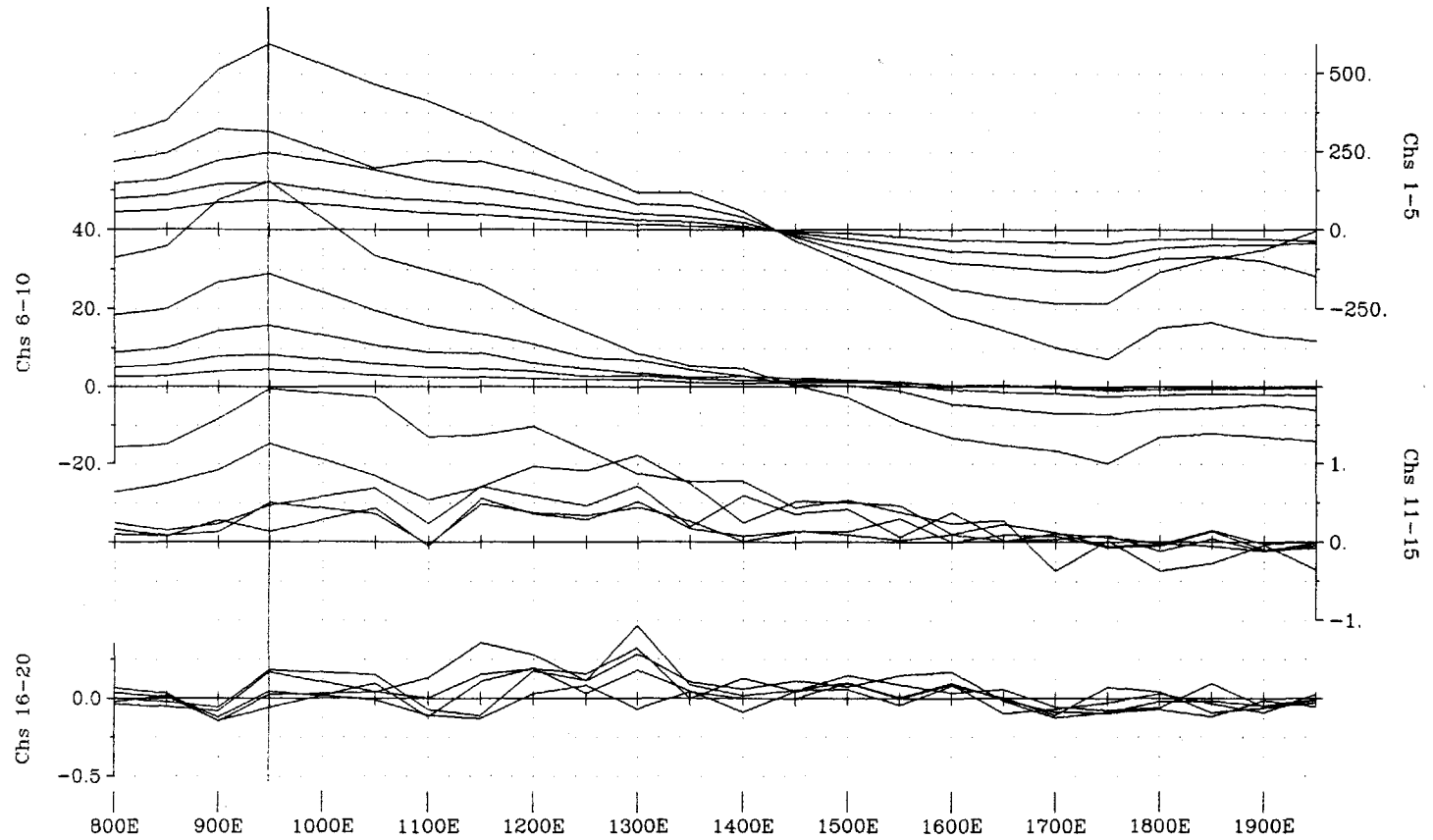
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-14+00N



Line 14+00N – X Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

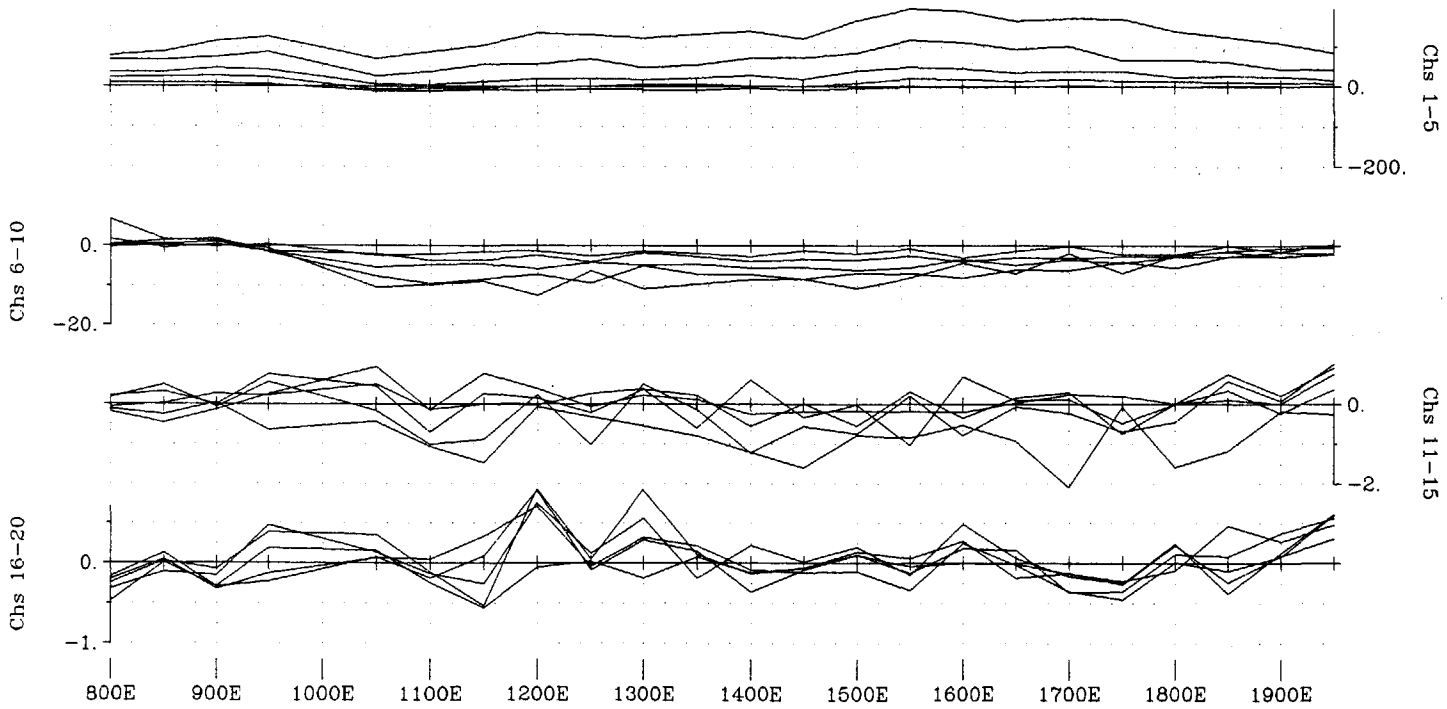
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-14+00N



Line 14+00N – Y Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

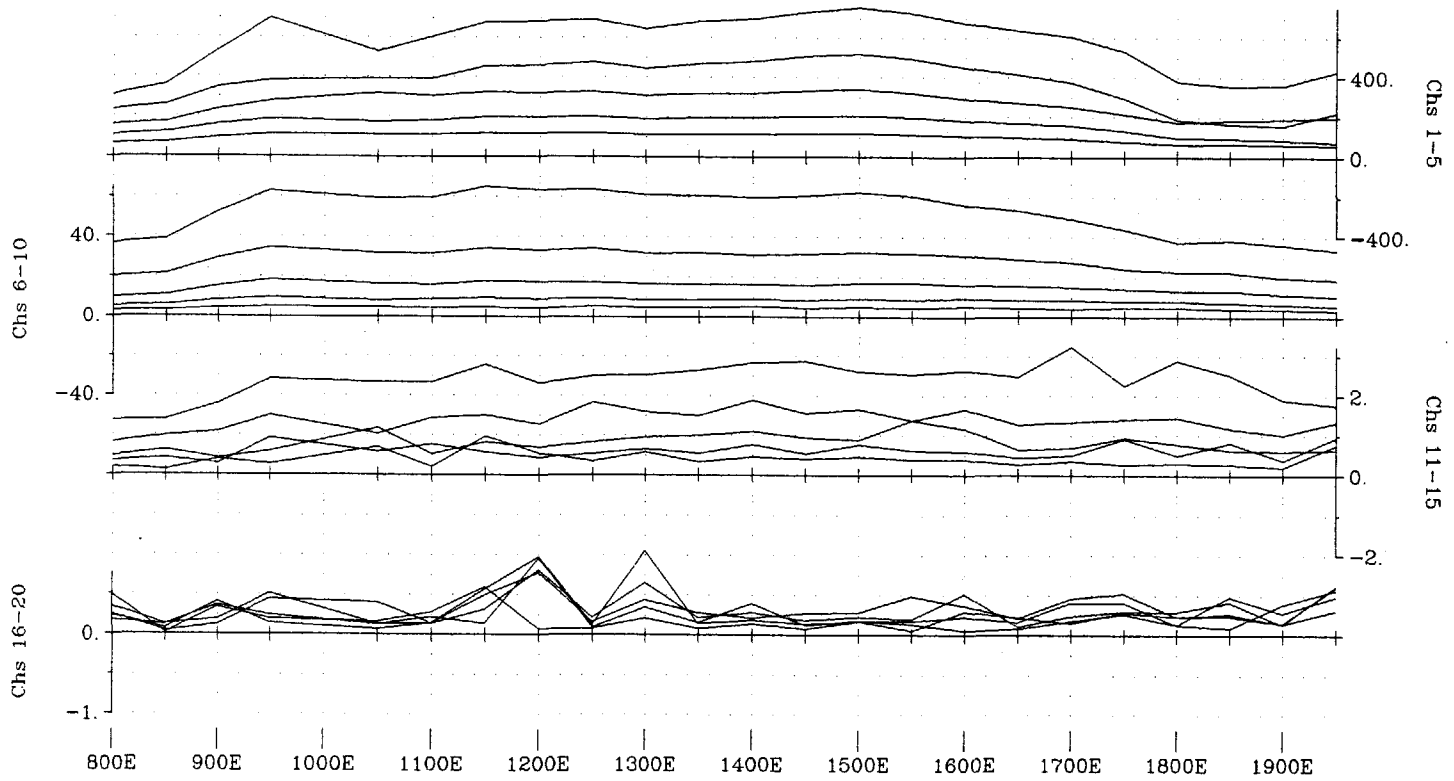
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.3 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-14+00N



Line 14+00N – Total Field

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

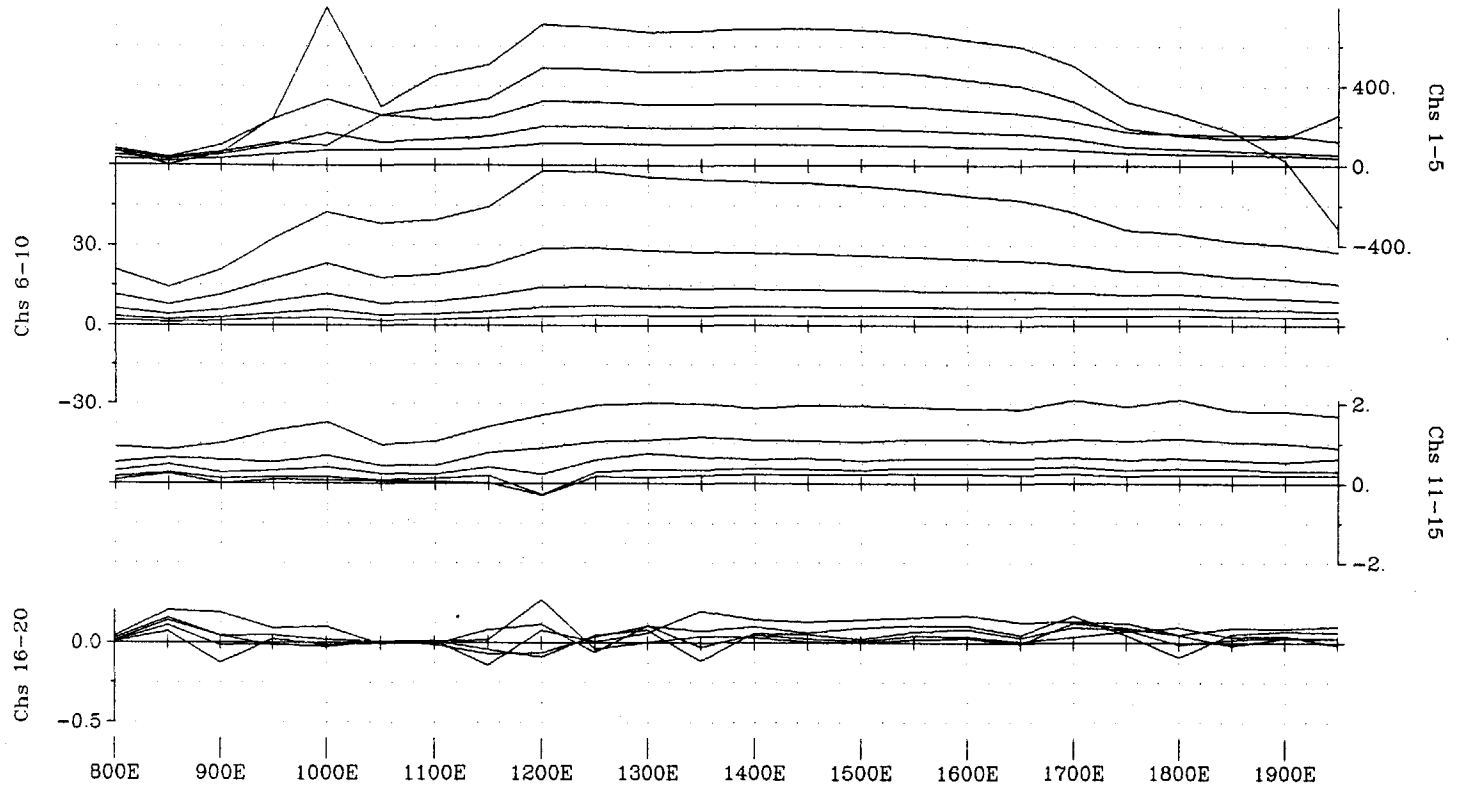
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-14+00N



Line 16+00N – Z Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

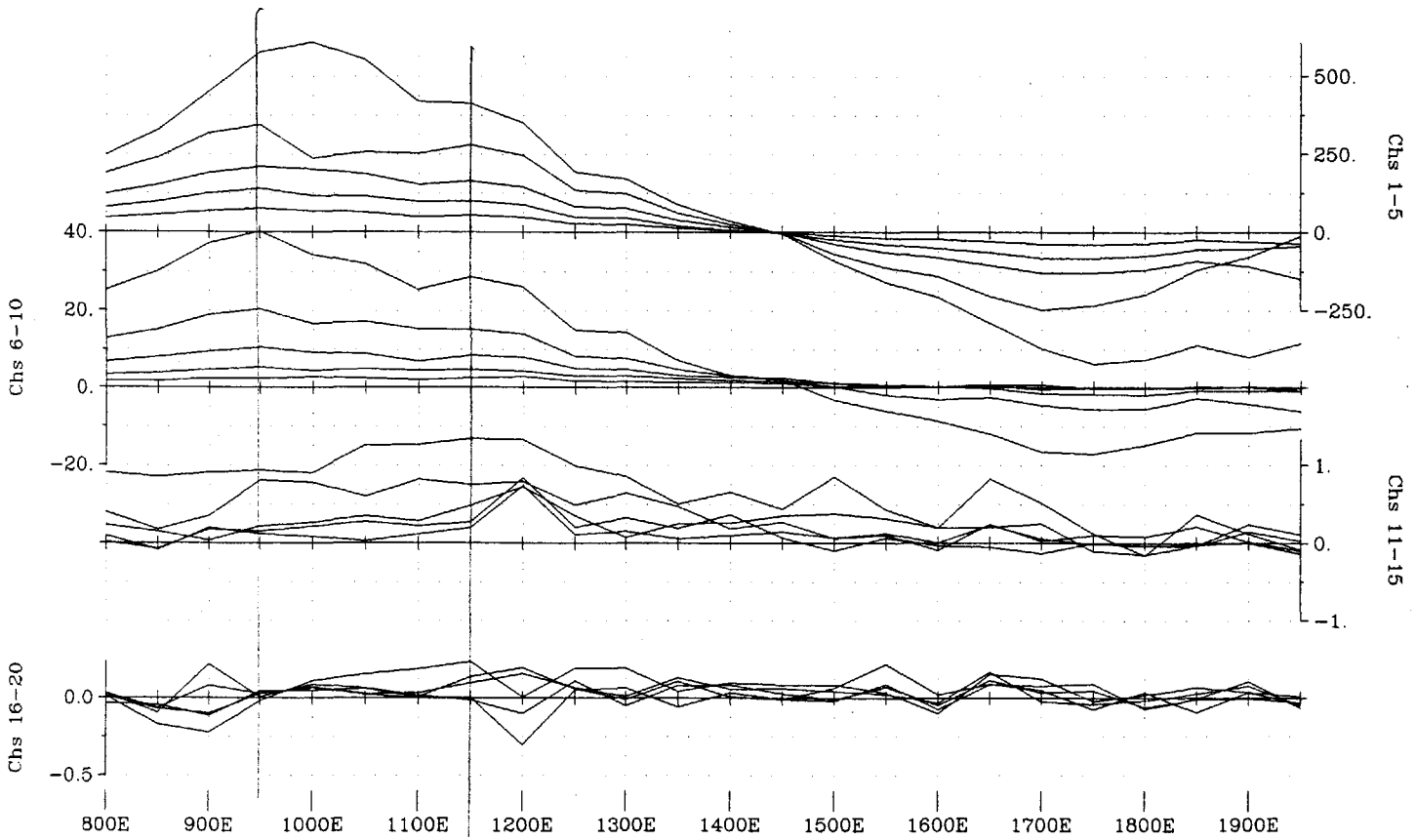
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-16+00N



Line 16+00N – X Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

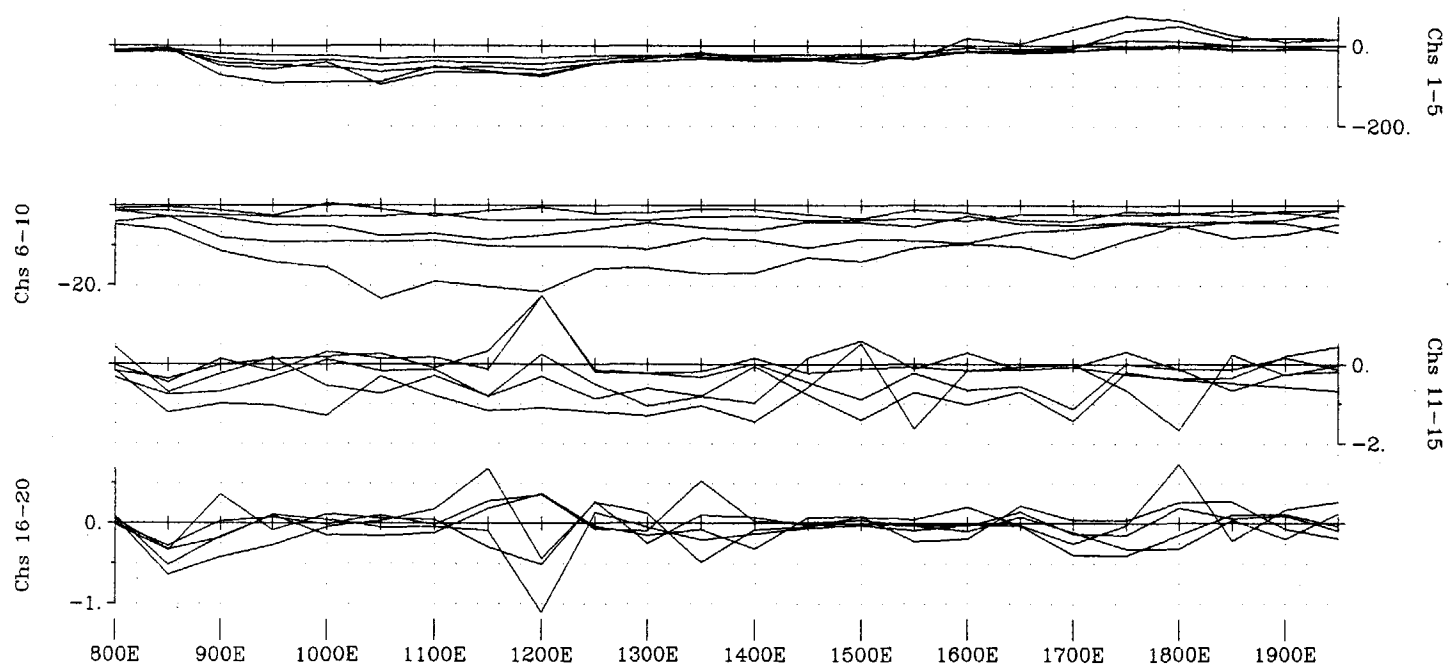
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-16+00N



Line 16+00N – Y Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

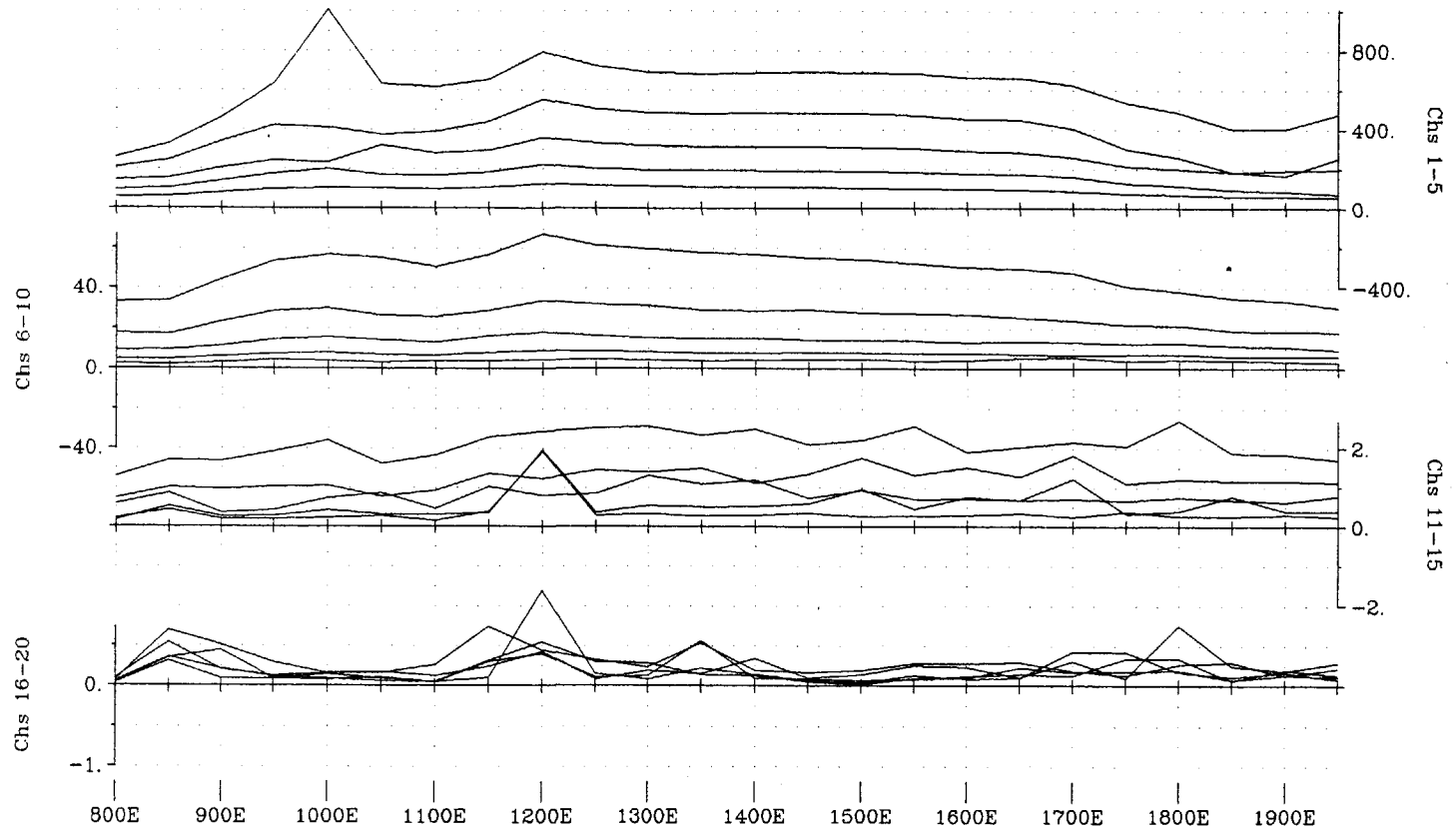
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-16+00N



Line 16+00N – Total Field

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

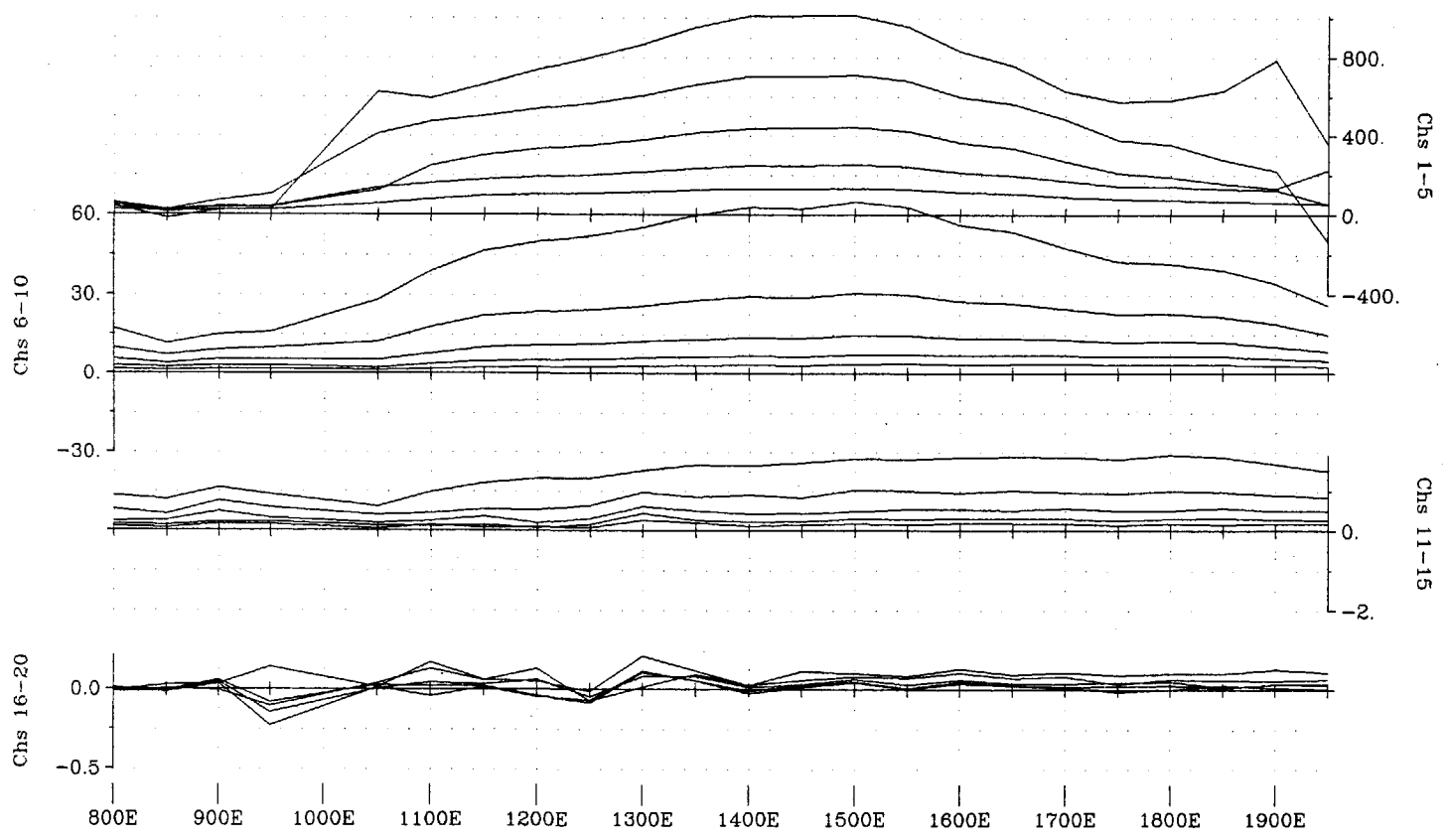
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-16+00N



Line 18+00N – Z Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

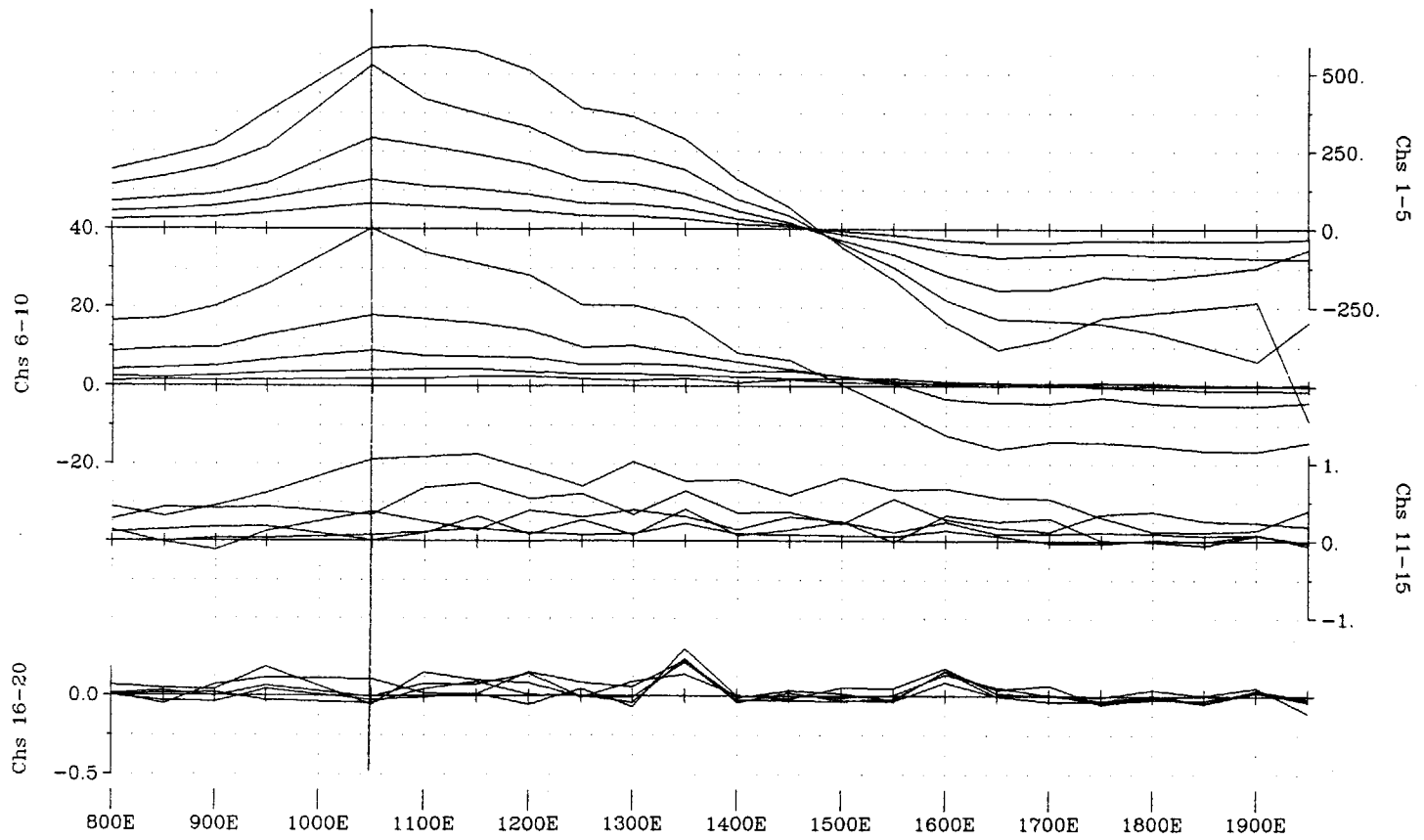
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-18+00N



Line 18+00N – X Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

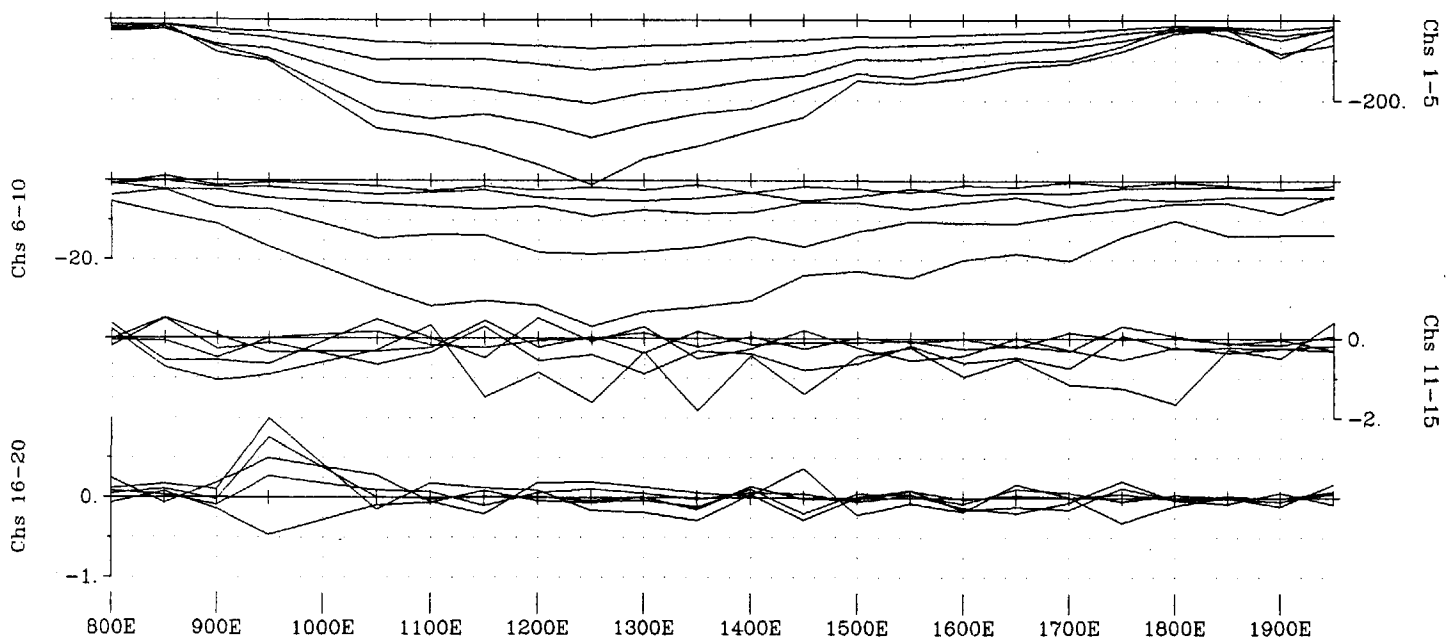
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.3 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-18+00N



Line 18+00N – Y Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

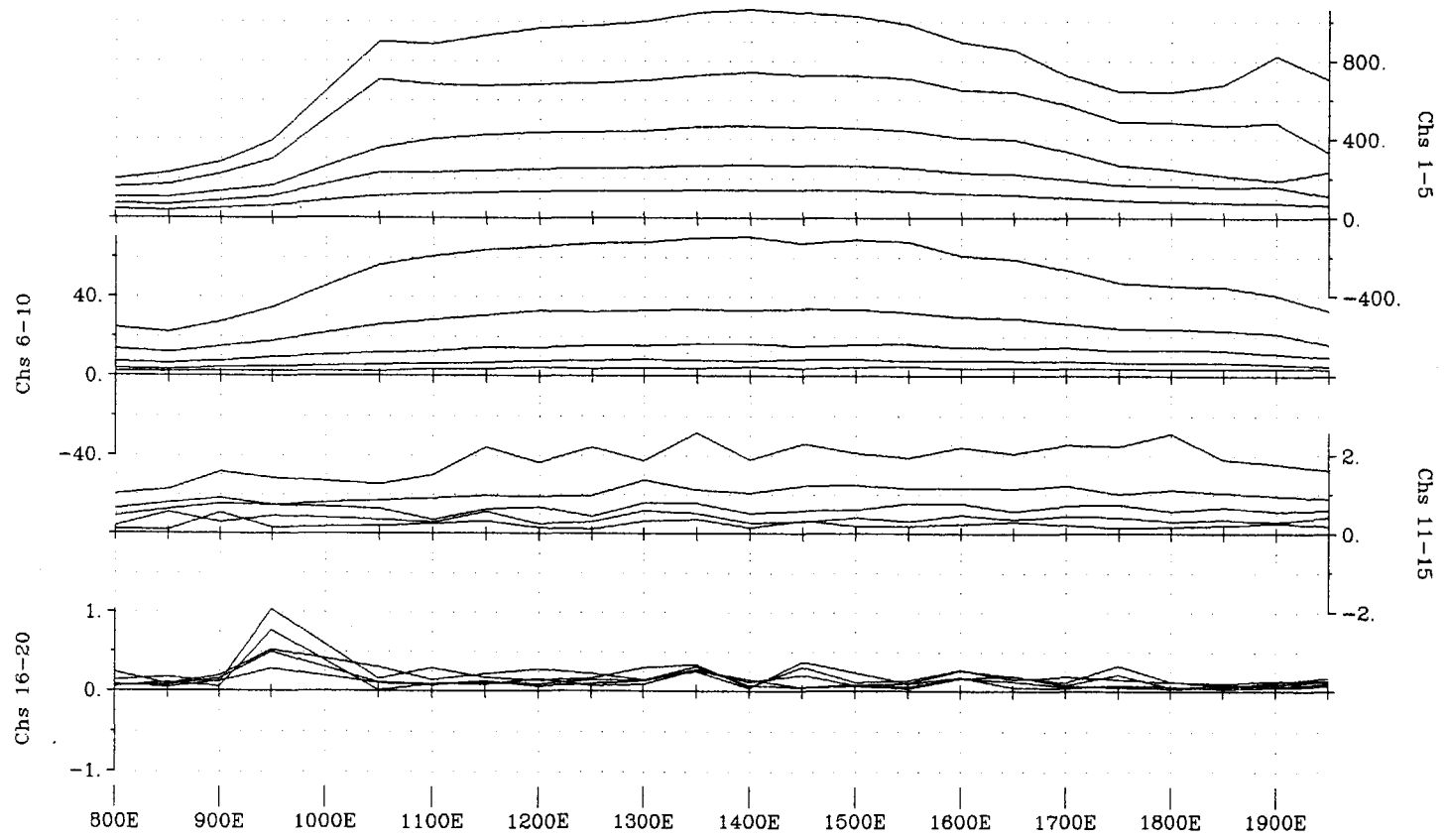
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-18+00N



Line 18+00N - Total Field

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

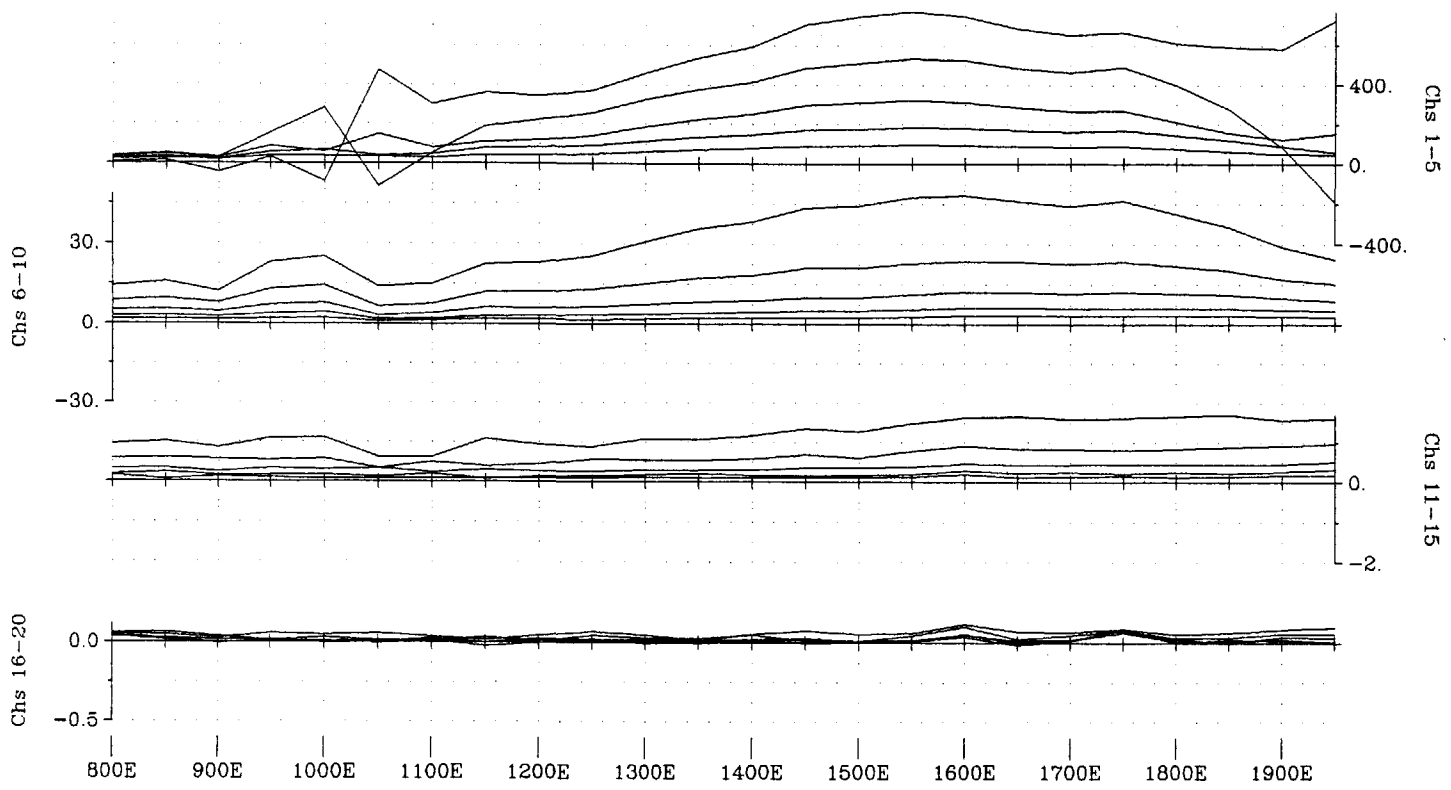
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A•m^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-18+00N



Line 20+00N – Z Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

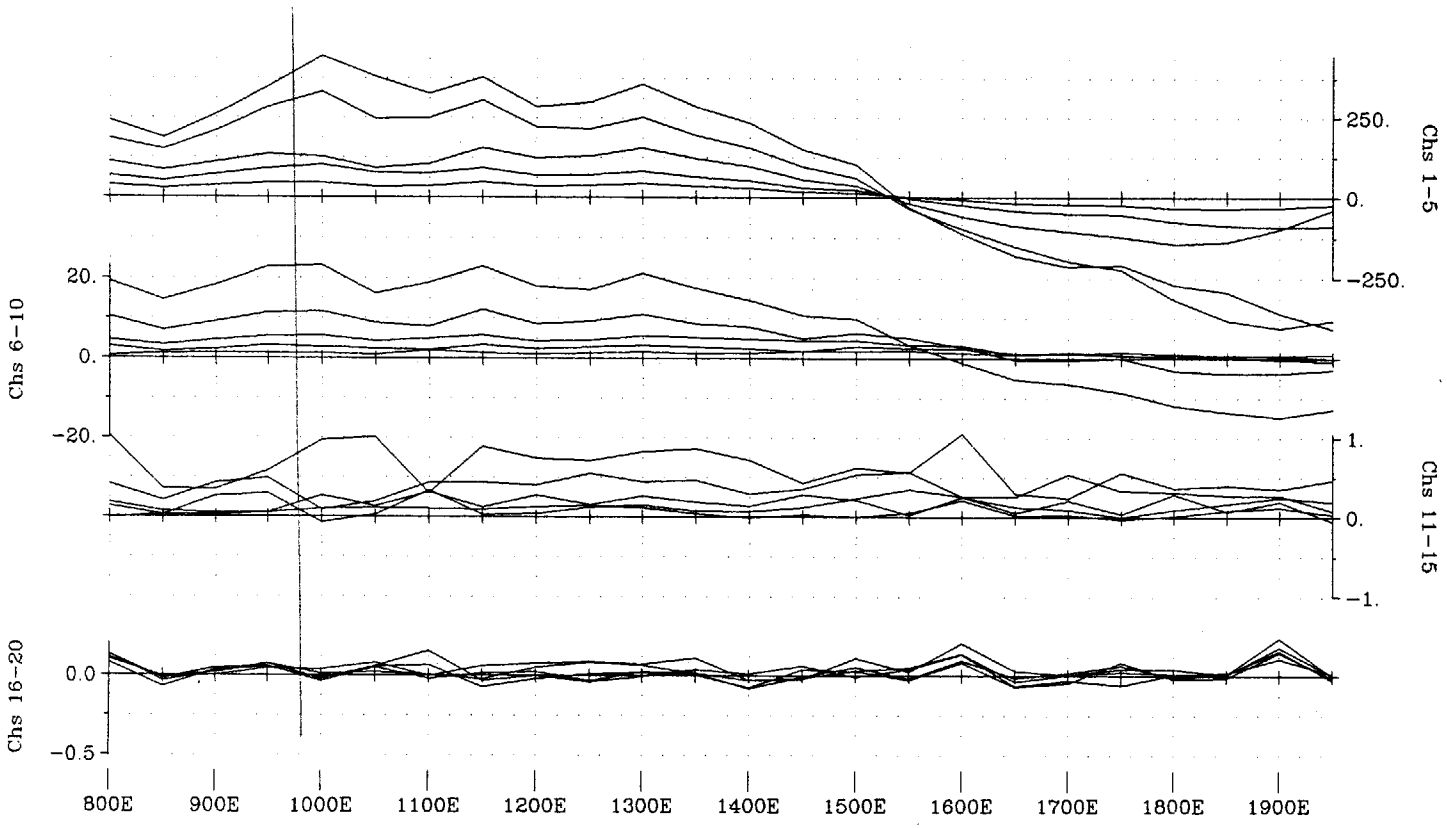
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-20+00N



Line 20+00N – X Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

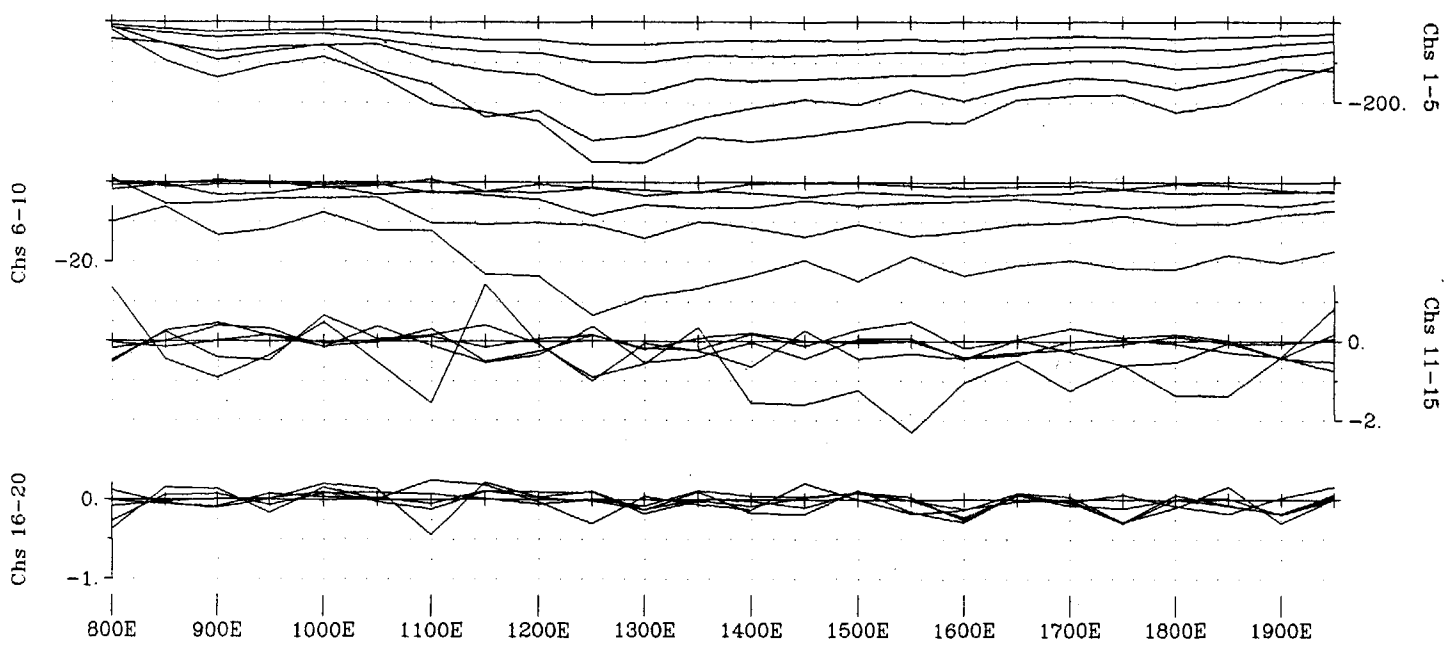
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-20+00N



Line 20+00N – Y Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

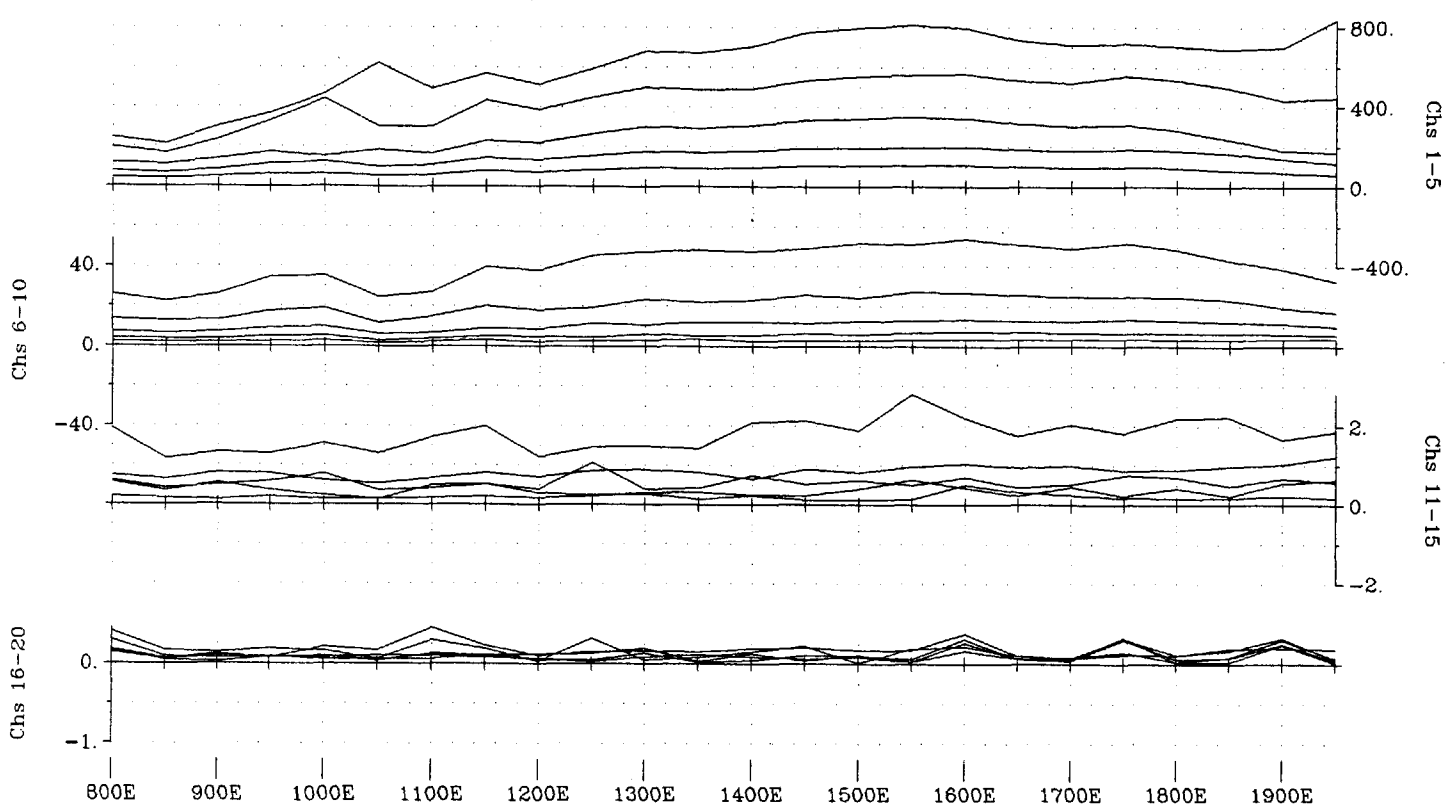
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation;	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-20+00N



Line 20+00N – Total Field

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

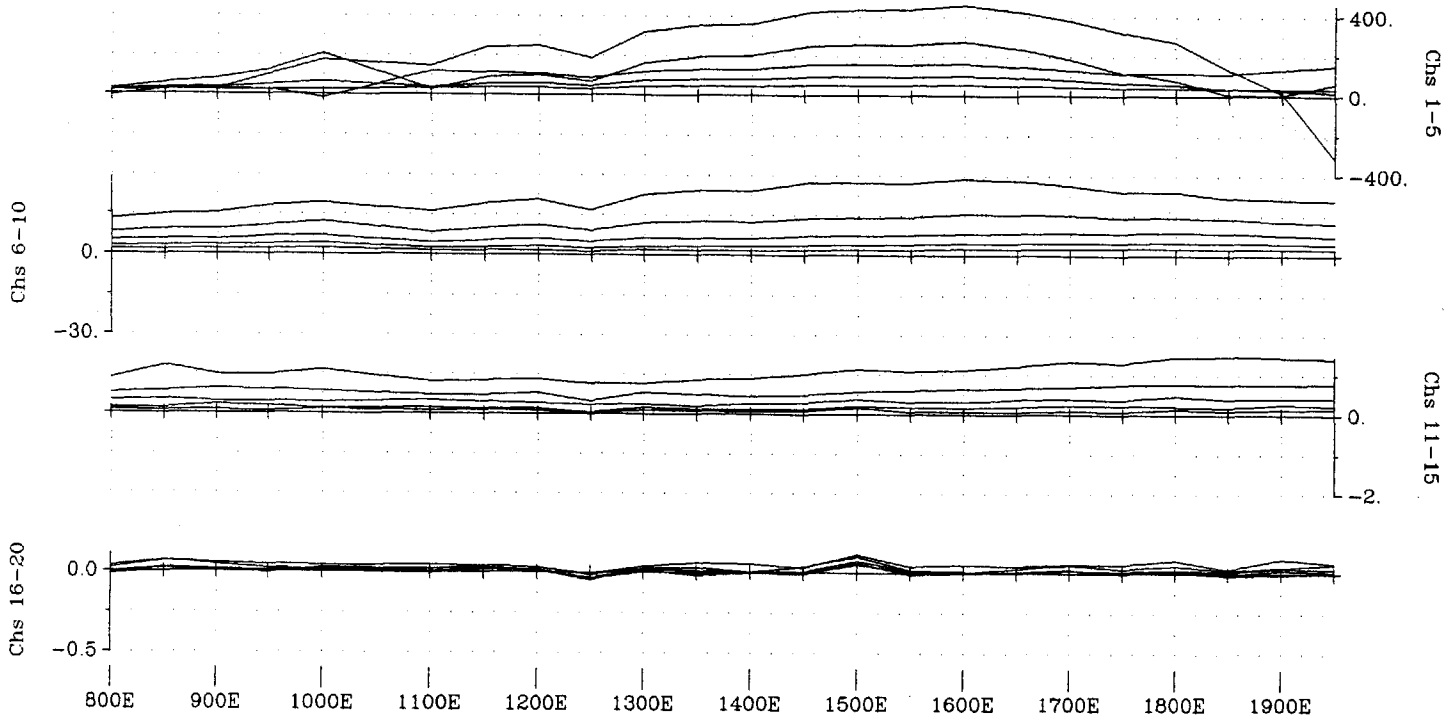
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up
	Hx - positive west
	Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels)
	& Geonics 3D Coil (3x200m^2)
	Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-20+00N



Line 22+00N – Z Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

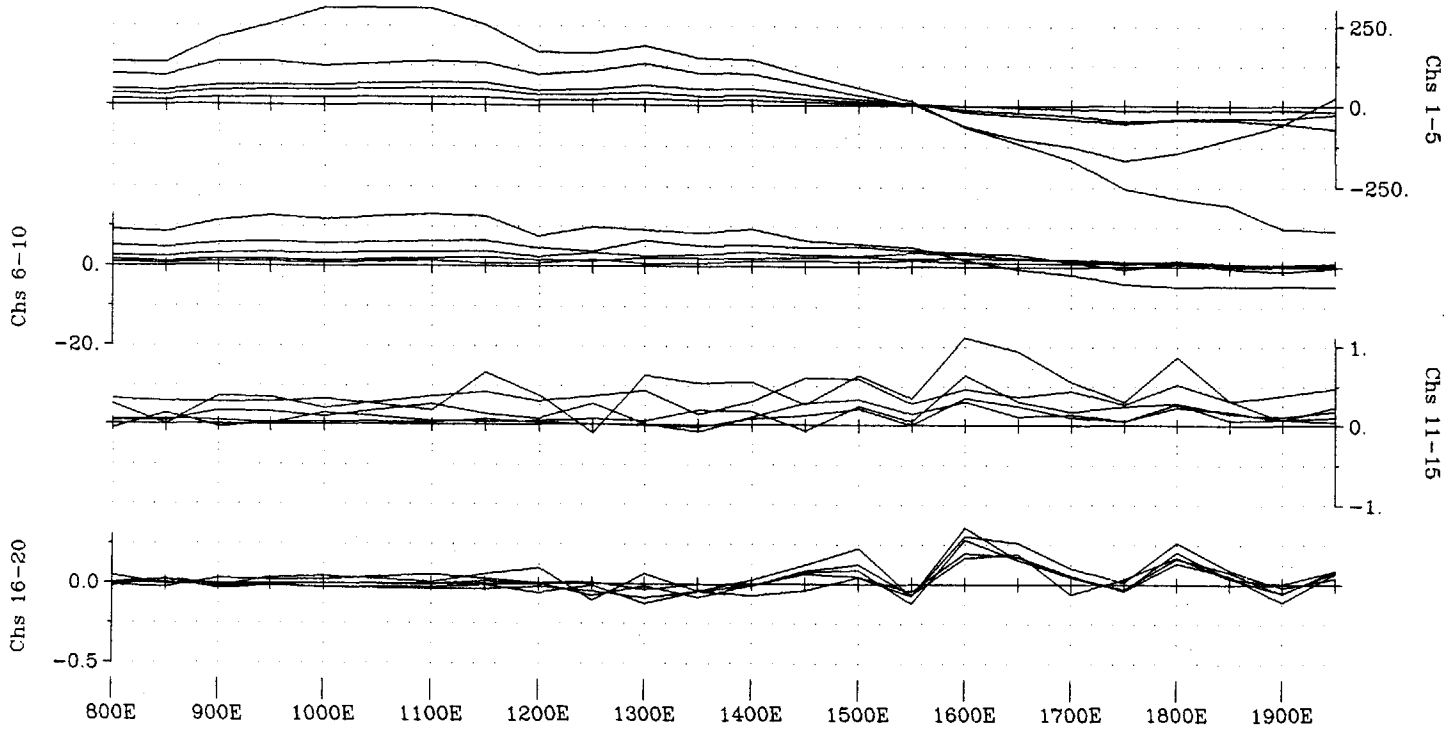
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Aem^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Z-22+00N



Line 22+00N – X Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

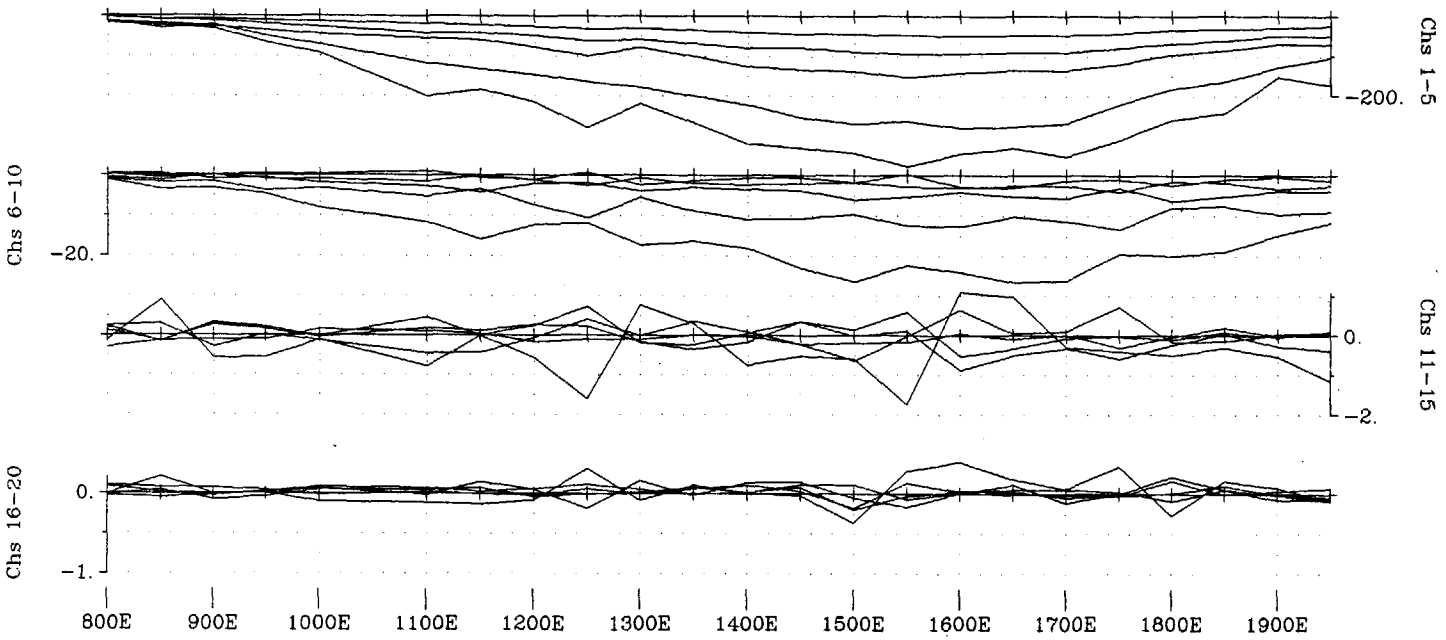
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/A*m^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-X-22+00N



Line 22+00N – Y Component

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

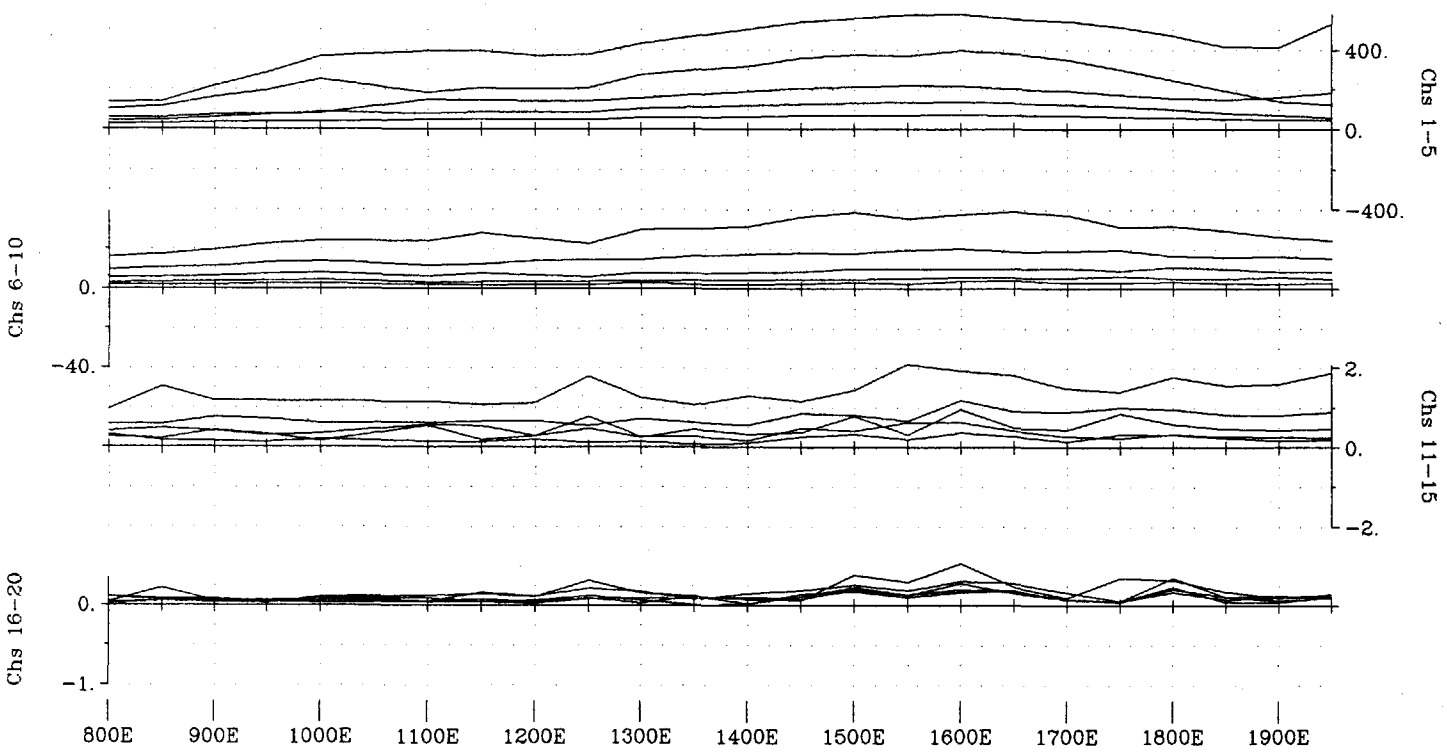
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Asm^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-Y-22+00N



Line 22+00N – Total Field

LOOP 6

Scale 1:5000

50 0 50 100 150 200

(metres)

WOODRUFF CAPITAL MANAGEMENT

LOVELAND TWP. 70-535

TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY

Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Tx Loop Size:	1000 x 1200 meters
Tx Loop Location:	L12N to L24N & TL10E to TL20E
Transmitter Current:	8.0 Amps
Transmitter Turn-Off Time:	360 us
Station Interval:	50 meters
Profile Units:	nanoVolt/Am^2
Receiver Coil Orientation:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept. 29, 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:

QUANTEC GEOSCIENCE INC.

DWG. NO. QG-346-4AXIS-TF-22+00N

ONTARIO

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

Work Report Summary

Transaction No: W0560.00321
Recording Date: 2005-FEB-21
Approval Date: 2005-MAR-02

Status: APPROVED
Work Done from: 2004-SEP-23
to: 2004-SEP-30

Client(s):

169899 INMET MINING CORPORATION/CORPORATION MINIERE INMET
401999 WOODRUFF CAPITAL MANAGEMENT INC.

Survey Type(s):

EM

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
P 1199701	$2,550	$2,550	$1,200	$1,200	$0	0	$1,350	$1,350	2006-OCT-01
P 1199702	$2,098	$2,098	$1,600	$1,600	$0	0	$498	$498	2006-OCT-01
P 1199703	$3,489	$3,489	$1,600	$1,600	$0	0	$1,889	$1,889	2006-OCT-01
P 1199704	$1,451	$1,451	$1,600	$1,600	$0	0	$0	$0	2006-OCT-01
P 1199705	$3,336	$3,336	$1,600	$1,600	$0	0	$1,736	$1,736	2006-OCT-01
P 1199706	$1,259	$1,259	$1,600	$1,600	$0	0	$0	$0	2006-OCT-01
P 1199707	$2,576	$2,576	$1,600	$1,600	$0	0	$976	$976	2006-OCT-01
P 1199708	$1,391	$1,391	$800	$800	$0	0	$591	$591	2006-OCT-01
P 1199709	$8,139	$8,139	$3,600	$3,600	$2,090	2,090	$2,449	$2,449	2006-OCT-01
P 3006641	$0	$0	$800	$800	$0	0	$0	$0	2007-SEP-28
P 3006642	$0	$0	$800	$800	$0	0	$0	$0	2007-SEP-28
	$26,289	$26,289	$16,800	$16,800	$2,090	$2,090	$9,489	$9,489	

External Credits: $0

Reserve:

$9,489 Reserve of Work Report#: W0560.00321

$9,489 Total Remaining

Status of claim is based on information currently on record.

42A12NE2065 2.29344 LOVELAND

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Date: 2005-MAR-03

GEOSCIENCE ASSESSMENT OFFICE
933 RAMSEY LAKE ROAD, 6th FLOOR
SUDBURY, ONTARIO
P3E 6B5

Tel: (888) 415-9845
Fax:(877) 670-1555

INMET MINING CORPORATION/CORPORATION
MINIERE INMET
330 BAY STREET, S-1000
TORONTO, ONTARIO
M5H 2S8 CANADA

Submission Number: 2.29344
Transaction Number(s): W0560.00321

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact STEVEN BENETEAU by email at steve.beneteau@ndm.gov.on.ca or by phone at (705) 670-5855.

Yours Sincerely,

Ron C Gashinski.

Ron Gashinski
Senior Manager, Mining Lands Section

Cc: Resident Geologist

Inmet Mining Corporation/Corporation Miniere Inmet
(Claim Holder)

Woodruff Capital Management Inc.
(Claim Holder)

Assessment File Library

Inmet Mining Corporation/Corporation Miniere Inmet
(Assessment Office)

Gerald Riverin
(Agent)

ONTARIO CANADA

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

PROVINCIAL MINING RECORDER'S OFFICE

Mining Land Tenure Map

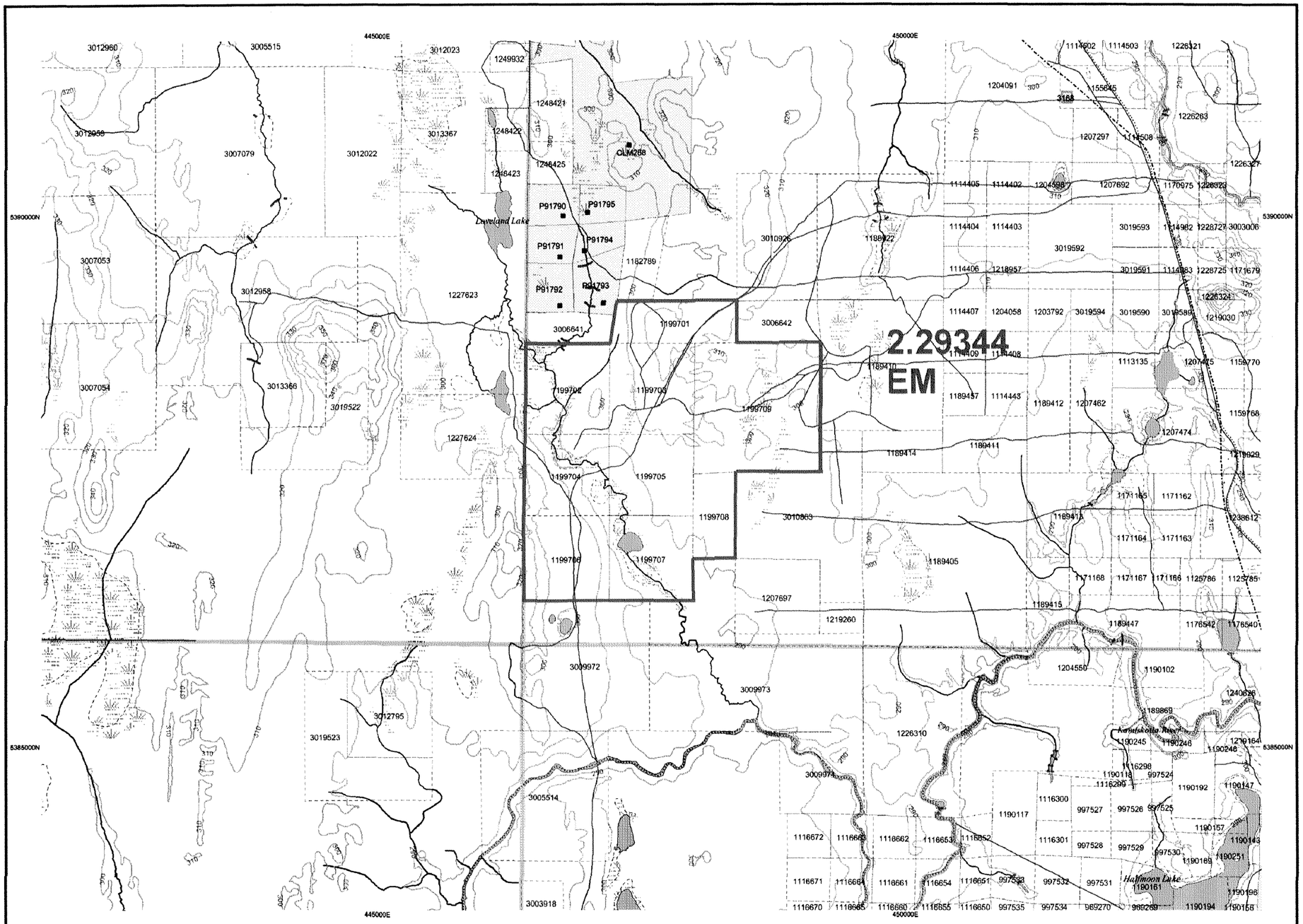
Date / Time of Issue: Thu Mar 03 14:11:50 EST 2005

TOWNSHIP / AREA
LOVELAND

PLAN
M-0293

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Porcupine
Land Titles/Registry Division	COCHRANE
Ministry of Natural Resources District	TIMMINS



UTM Zone 17
5000m grid

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

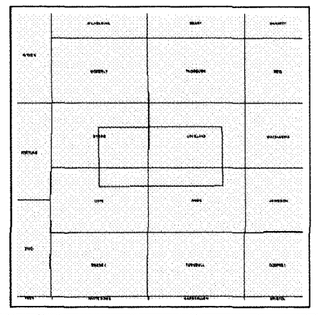
Freehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation
- Uses Not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only
- Land Use Permit
- Order In Council (Not open for staking)
- Water Power Lease Agreement

1234567 Mining Claim

1234567 Filed Only Mining Claims



LAND TENURE WITHDRAWALS

1234 Areas Withdrawn from Disposition

Mining Acts Withdrawal Types
- Wsm Surface And Mining Rights Withdrawn
- Ws Surface Rights Only Withdrawn
- Wm Mining Rights Only Withdrawn

Order In Council Withdrawal Types
- W'sm Surface And Mining Rights Withdrawn
- W's Surface Rights Only Withdrawn
- W'm Mining Rights Only Withdrawn

Ns IMPORTANT NOTICES

Scale 1:40000

700m 0m 2.1km

LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
3161	Wsm	Jan 1, 2001	400 FEET SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS
3168	Wsm	Jan 1, 2001	400 FEET SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS
W-LL-C1702	Wsm	Feb 1, 2004	W-LL-C1702 ONT M&S withdrawal S.35 Mining Act RSO 1999. 01/02/04 Boundary generally depicts area withdrawn Click to view actual area

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local La

The infc
Develop

oading from the Ministry of Northern

General Information and Limitations

Contact Information:
Provincial Mining Recorders' Office
Willet Green Miller Centre 933 Ramsey Lake Road
Sudbury ON P3E 6B5
Home Page: www.mndm.gov.on.ca/MNDM/MINES/LANDS/mismnpge.htm

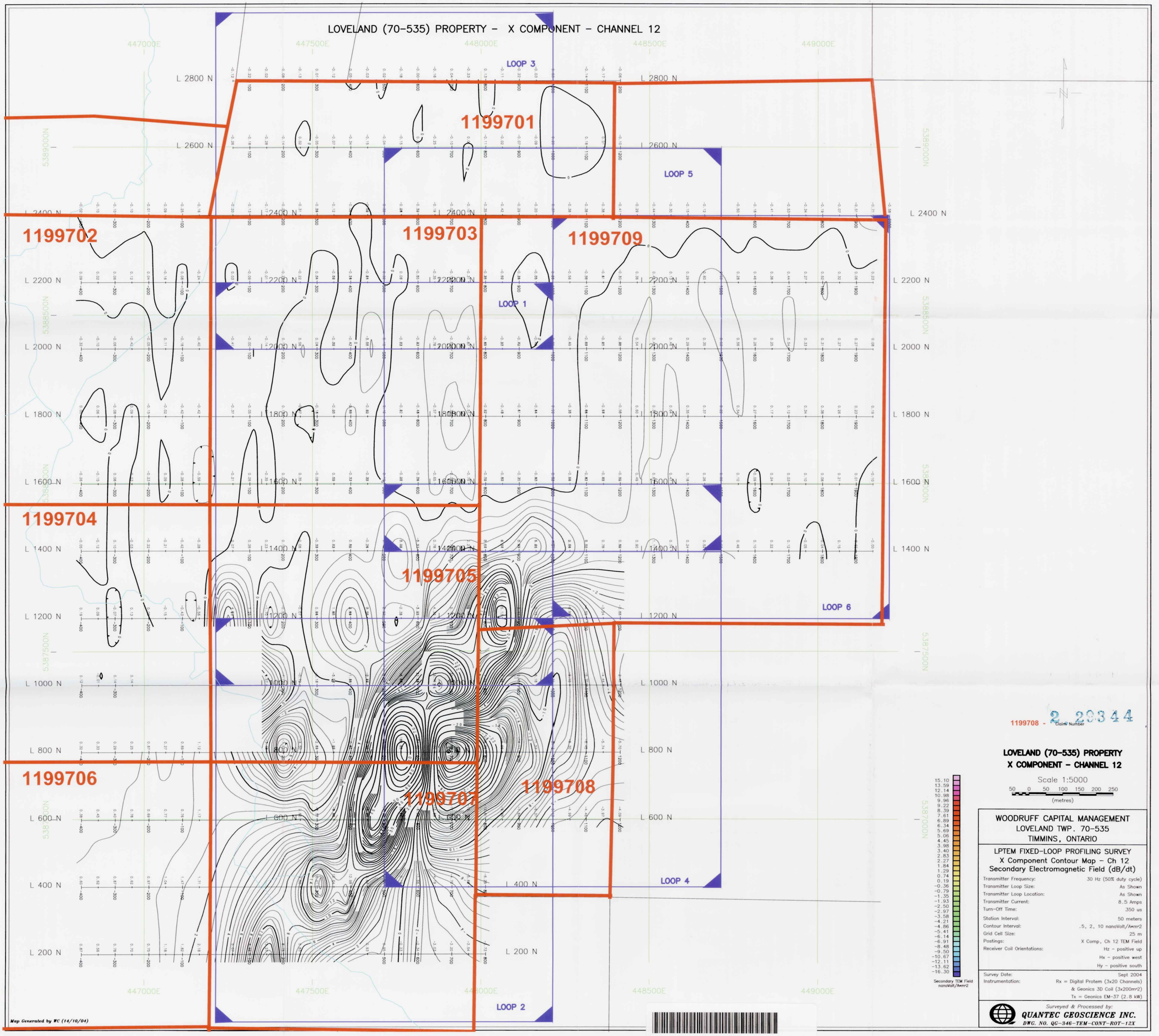
Toll Free
Tel: 1 (888) 415-9845 ext 5779
Fax: 1 (877) 670-1444

Map Datum: NAD 83
Projection: UTM (6 degree)
Topographic Data Source: Land Information Ontario
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.

42A12NE2065 2.29344 LOVELAND 200

LOVELAND (70-535) PROPERTY - X COMPONENT - CHANNEL 12



1199708 - 2.29344 Claim Number

LOVELAND (70-535) PROPERTY
X COMPONENT - CHANNEL 12

Scale 1:5000

50 0 50 100 150 200 250
(metres)

15.10
13.59
12.14
10.98
9.96
9.22
8.39
7.61
6.89
6.34
5.69
5.06
4.45
3.98
3.40
2.83
2.27
1.84
1.29
0.74
0.19
-0.36
-0.79
-1.35
-1.93
-2.50
-2.97
-3.58
-4.21
-4.86
-5.41
-6.14
-6.91
-8.48
-9.50
-10.67
-12.11
-13.62
-16.30
Secondary TEM Field nanoVolt/A*m^2

WOODRUFF CAPITAL MANAGEMENT
LOVELAND TWP. 70-535
TIMMINS, ONTARIO

LPTEM FIXED-LOOP PROFILING SURVEY
X Component Contour Map - Ch 12
Secondary Electromagnetic Field (dB/dt)

Transmitter Frequency:	30 Hz (50% duty cycle)
Transmitter Loop Size:	As Shown
Transmitter Loop Location:	As Shown
Transmitter Current:	8.5 Amps
Turn-Off Time:	350 us
Station Interval:	50 meters
Contour Interval:	.5, 2, 10 nanoVolt/A*m^2
Grid Cell Size:	25 m
Postings:	X Comp, Ch 12 TEM Field
Receiver Coil Orientations:	Hz - positive up Hx - positive west Hy - positive south
Survey Date:	Sept 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

Surveyed & Processed by:
QUANTEC GEOSCIENCE INC.
DWG. NO. QG-346-TEM-CONT-ROT-12X

Map Generated by WC (14/10/04)

42A12NE2065 2.29344 LOVELAND

LOVELAND (70-535) PROPERTY - X COMPONENT Ch 12 - INTERPRETATION

447000E 447500E 448000E 448500E 449000E

L 2800 N L 2600 N L 2400 N L 2200 N L 2000 N L 1800 N L 1600 N L 1400 N L 1200 N L 1000 N L 800 N L 600 N L 400 N L 200 N

5389000N 5388500N 5388000N 5387500N 5387000N

LOOP 3 LOOP 5 LOOP 1 LOOP 6 LOOP 4 LOOP 2

1199701 1199702 1199703 1199704 1199705 1199706 1199707 1199708 1199709

CONDUCTOR "A" CONDUCTOR "B"

2.29344

LEGEND

- VERY STRONG CONDUCTOR (Subvertical, Flat-lying)
- STRONG CONDUCTOR (Subvertical, Flat-lying)
- MODERATE CONDUCTOR (Subvertical, Flat-lying)
- WEAK QUALITY CONDUCTOR (Subvertical, Flat-lying)
- QUESTIONABLE CONDUCTOR (Subvertical, Flat-lying)
- Number of Anomalous Channels Responding
- Estimated Target Depth
- 1199708 - Claim Number

Interpretation by: Quantec Geoscience - WC 20-11-04

15.10 13.59 12.14 10.98 9.96 9.22 8.39 7.61 6.89 6.34 5.69 5.06 4.45 3.98 3.40 2.83 2.27 1.84 1.29 0.74 0.19 -0.36 -0.79 -1.35 -1.93 -2.50 -2.97 -3.58 -4.21 -4.86 -5.41 -6.14 -6.91 -8.48 -9.50 -10.67 -12.11 -13.62 -16.30

Secondary TEM Field nanoVolt/A•m^2

Scale 1:5000

50 0 50 100 150 200 250 (metres)

WOODRUFF CAPITAL MANAGEMENT
LOVELAND TWP. 70-535
TIMMINS, ONTARIO

Secondary Electromagnetic Field (dB/dt)
LPTEM FIXED-LOOP PROFILING SURVEY
INTERPRETATION PLAN MAP

Transmitter Frequency:	30 Hz (50% duty cycle)
Transmitter Loop Size:	As Shown
Transmitter Loop Location:	As Shown
Transmitter Current:	8.5 Amps
Turn-Off Time:	350 us
Station Interval:	50 meters
Contour Interval:	.5, 2, 10 nanoVolt/A•m^2
Grid Cell Size:	25 m (1x Hanning Smoothed)
Postings:	X Comp, Ch 12 TEM Field
Receiver Coil Orientations:	Hz - positive up Hx - positive west Hy - positive south
Date:	Sept 2004
Instrumentation:	Rx = Digital Protem (3x20 Channels) & Geonics 3D Coil (3x200m^2) Tx = Geonics EM-37 (2.8 kW)

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Map Generated by WC (14/10/04)