

LOG NO: 0205	RD.
ACTION:	1/89
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ASSESSMENT REPORT

TRANSIENT ELECTROMAGNETIC AND MAGNETIC SURVEY -

GOAT CLAIM GROUP

NELSON AND FT. STEELE MINING DIVISION

N.T.S. 82F/1

GOATFELL-YAHK AREA

Coordinates

Latitude 49°07'N

Longitude 116°12'W

GEOLOGICAL BRANCH

Period: July 1 to October 31, 1987

OWNER

Chevron Minerals Ltd.

16,970

FILMED

SURVEY AUTHORS:

J. L. LeBel - Orequest Consultants Ltd.

R. W. K. Morrison - Quanteck Consultants Inc.

ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 89.01.25

ASSESSMENT REPORT 16970

MINING DIVISION: Nelson

Fort Steele

PROPERTY: Goat
LOCATION: LAT 49 07 00 LONG 116 12 00
UTM 11 5440514 558378
NTS 082F01E
CLAIM(S): Goat 1-2
OPERATOR(S): Chevron Can. Res.
AUTHOR(S): LeBel, J.L.;Morrison, R.
REPORT YEAR: 1987, 112 Pages

GEOLOGICAL

SUMMARY: The property straddles the contact between the lower and the middle Aldrige Formation which hosts the Sullivan orebody at Kimberley. Tourmaline and albite alteration occur on the property. A graben structure or growth fault is interpreted as trending east-west through the middle of the property.

WORK
DONE: Geophysical
EMGR 51.6 km;TRAN
MAGG 51.6 km
Map(s) - 2; Scale(s) - 1:2500,1:8000

**REPORT
ON
TRANSIENT ELECTROMAGNETIC AND MAGNETIC SURVEYS**

**GOATFELL PROPERTY
YAHK, BRITISH COLUMBIA
NTS 82F/1**

**for
CHEVRON CANADA RESOURCES LTD.**

**Vancouver, B.C.
AUGUST 1987**

**J.L. LeBel, P.Eng.
OREQUEST CONSULTANTS LTD**

**R.W. Keith Morrison, B.Sc.
QUANTECH CONSULTING INC.**

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SUMMARY

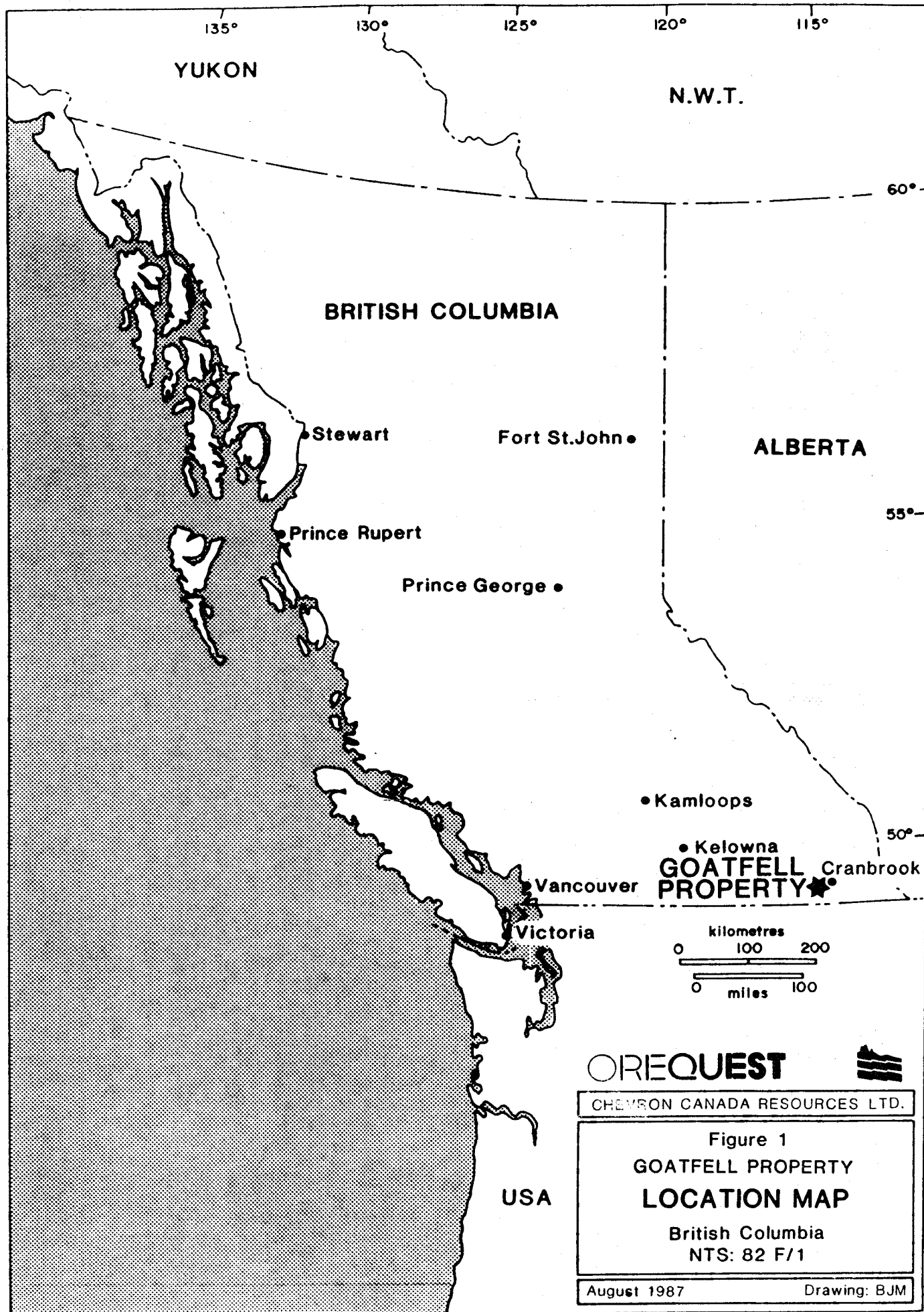
Transient electromagnetic and magnetic geophysical surveys were conducted on the Chevron Canada Resources Ltd. Goatfell property located near Yahk in southeastern British Columbia.

The purpose of the surveys was to test the down-dip portions of the contact between the lower and middle Alderidge formation which hosts the Sullivan deposit at Kimberly.

The TEM profiling survey outlined one anomaly that can be reasonably modelled by a plate-like conductor located in an area with favourable alteration. As interpreted, the top of the conductor is shallow and it is probably not caused by massive sulphides.

The TEM soundings are interpreted to have outlined a conductive layer at a depth of 800m to 1000m in the southern part of the property. The conductive layer is absent in the northern part of the property, possibly downfaulted across a graben fault interpreted on the basis of geology.

The magnetic survey outlined an anomaly indicative of a Moyie sill. Offsets in the sill tend to support the presence of the graben fault interpreted to cross the area.



INTRODUCTION

This report presents the results of transient electromagnetic (TEM) and magnetic geophysical surveys conducted on behalf of Chevron Canada Resources Ltd. on the Goatfell Property located in southeastern British Columbia near Yahk.

The property straddles the permissive contact between the lower and middle Alderidge formation which hosts the Sullivan orebody at Kimberly. In addition, favourable tourmaline and albite alteration occurs on the property and a Graben structure or growth fault is interpreted to trend eastwest roughly through the middle of the property with the down-faulted block to the north.

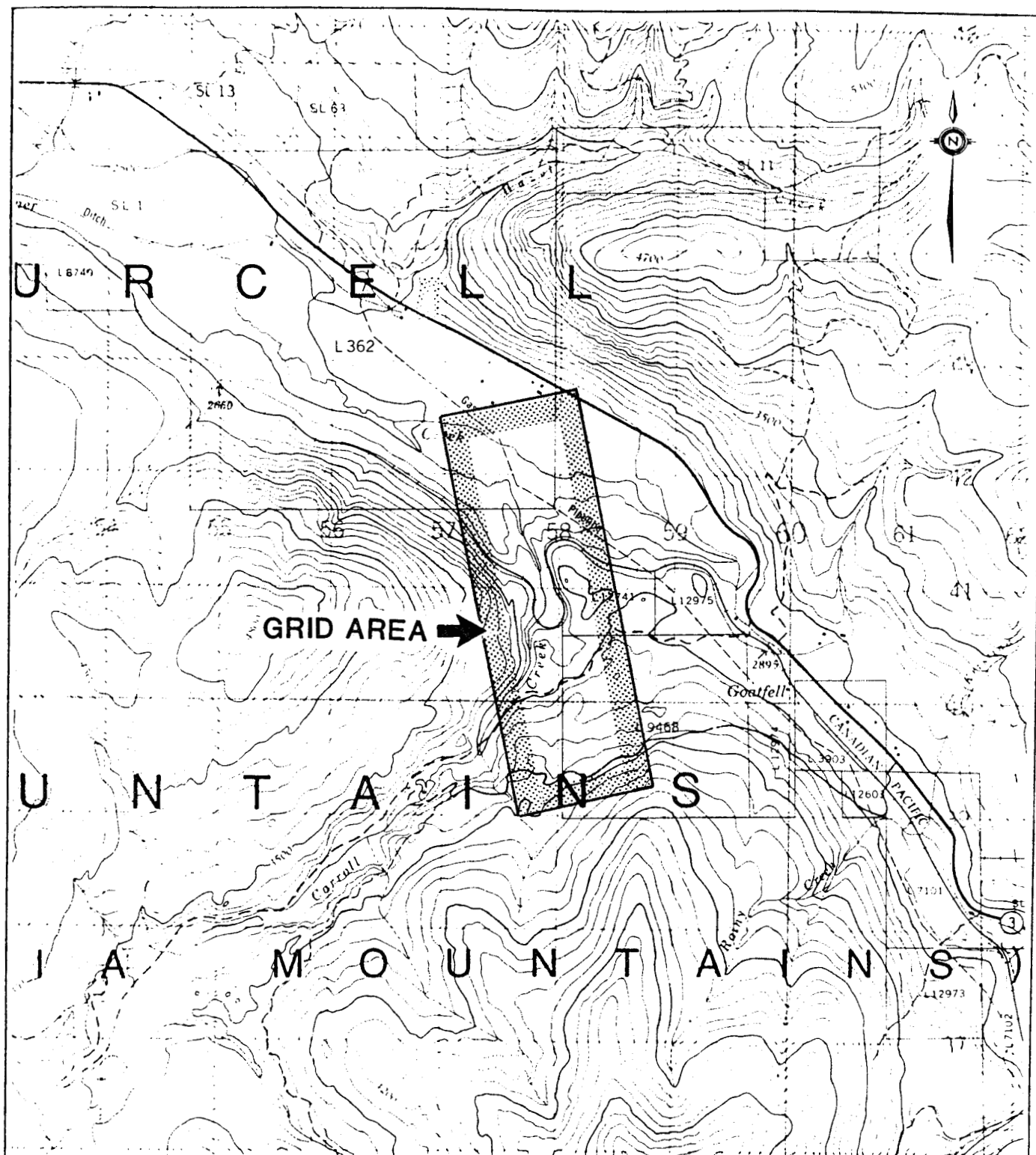
The purpose of the surveys was to investigate the favourable contact to depth for massive sulphides and to confirm the interpreted graben.

The surveys were conducted by a collaboration between OreQuest Consultants Ltd. and Quantech Consulting Inc. OreQuest provided magnetometers and support personnel while Quantech supplied a geophysicist/operator and equipment for the TEM survey.

LOCATION AND ACCESS

The Goatfell Property is located about 10 km northwest of the village of Yahk in southeastern British Columbia on NTS map 82F/1 (figure 1 and figure 2).

Access is gained from Highway 3 which crosses the northeastern corner of the property by forestry roads and private bush and



OREQUEST



CHEVRON CANADA RESOURCES LTD.

Figure 2
GOATFELL PROPERTY
**REGIONAL
LOCATION MAP**
British Columbia
NTS: 82 F/1

August 1987

Drawing: BJM

farm roads. Permission to use the private roads must be obtained from the local property owners.

Two natural gas pipelines which occupy the same right of way cross through the property and a CPR branch rail line also winds through the property.

EQUIPMENT AND SURVEY PROCEDURES

Access for the surveys was provided by a cut and/or flagged grid prepared by Leash and Associates, the owners of the property. The grid consists of 4 - 3600m long north south base lines at 400m intervals with 19 - 1200m long and 18 - 800 m long eastwest cross-lines (figure 3). Unfortunately, the grid lines were not chained by the linecutters and had to be chained by the geophysical survey personnel. In the interest of speed, so that the surveys would not be delayed, the lines were chained in loops starting alternately at BL1 (0+00) and BL4 (12+00E) or BL3 (8+00E) rather than starting consistently at one of the base lines. Chaining in this manner created offsets in the eastwest coordinates between the lines as illustrated in figure 3. The configuration of the grid, i.e. the four base lines, was designed in advance to provide access for the TEM survey.

TEM Survey

The TEM survey was conducted with a Geonics EM-37 system. The survey was conducted in two modes, namely profiling and sounding modes.

In the profiling mode vertical (Z) and horizontal (X) components were recorded along the lines at 50m intervals.

Transmitter loops consisted of 800m x 400m loops layed out along BL1 and BL2. One transmitter (No. 3) was positioned along BL2 and BL3 to circumvent some steep cliffs and poorly cut lines.

In the sounding mode, 400m x 400m loops were layed out along BL2 and BL3 and BL3 and BL4 to provide sounding profiles nominally at 600E and 1000E. Vertical component (Z) measurements were made at the center of each loop to make the sounding. No soundings were made at several sites near the center of the grid because of excessive cultural noise from the CPR railway track and the two gas pipelines.

With the Geonics EM-37 the data is recorded by a solid state memory data acquisition system and is processed and output via a microcomputer in the field using software written by Geonics Ltd. and Quantech Consulting Inc.

Magnetic Survey

The magnetic survey was conducted with two EDA OMNI IV total field proton precession magnetometers, one deployed as a field instrument and the other used as a base station to monitor and remove diurnal variations in the geomagnetic field from the survey results.

Readings were taken at 25m intervals. A portion of the grid was not surveyed because one of the local land owners denied access. By the time permission to work on the property was granted, the OreQuest magnetometers were committed to other jobs.

The EDA magnetometers also record data into self-contained solid state memories. The data was extracted to a micro-

computer using EDA dumping routines. Subsequent diurnal corrections, plotting and contouring, were carried out using software from Geosoft Inc.

PRESENTATION OF RESULTS

TEM Survey

The TEM profile survey is presented as stacked profiles of the Z and X - components for each line at a scale of 1:5000 in Appendix A. In the stacked profiles, the 20 channels of data provided by the EM-37 are plotted in groups using scales as follows: channels 1-6, 250 scale; channels 7-12, 25 scale, and channels 13-20, 2 scale where the units measured are nanoteslas per second per ampere-meter squared.

The TEM sounding survey is presented as log/lot plots of the calculated apparent resistivity versus the square root of the delay time (channel time) for each sounding (Appendix B).

The locations of transmitter loops for the TEM surveys are shown on figure 3.

Magnetic Survey

The results of the magnetic survey are illustrated in an annotated, contoured format on figure 4 with a contour interval of 100 gammas.

RESULTS AND DISCUSSION

TEM Survey

The TEM response of the ground combines a background or half-

space response and the response of any conductive inhomogeneities both which produce the same kind of anomalies, i.e. peaks in the X-component and inflections in the Z-component. The locations of the half-space anomalies typically decay rapidly with increasing time (channel) and migrate spatially away from the transmitter with time. A conductive inhomogeneity on the other hand produces anomalies which often persist into late time channels and plot a stationary position regardless of channel. Although the interaction between these two types of responses is often complex, it has been found that they can be modelled effectively using the response of a homogeneous earth and the response of a thin sheet. Modelling illustrated herein was carried out using MOD37 software designed for this purpose by Geonics Ltd.

To interpret the TEM soundings software, called RECTAN, developed by Geonics Ltd. was used. RECTAN calculates forward models for up to six layers with variable resistivity and/or thickness.

Transmit Loop 1

Position: L0+00N, 0+00E
 L8+00N, 0+00E
 L8+00N, 4+00E
 L0+00N, 4+00E

Coverage: L1+00N, 0+50E - 8+00E
 L2+00N, 0+50E -12+00E
 L3+00N, 0+50E - 8+00E
 L4+00N, 0+50E -11+50E
 L5+00N, 0+50E - 8+00E
 L6+00N, 0+50E -12+00E
 L7+00N, 0+50E - 8+00E

The TEM profiles from TX1 are interpreted to demonstrate a background or host response of the area with no local anomalies of interest. This is seen as within the transmit loop and

where the Z profile shows a flat uniform pattern and outside the transmit loop the Z component inflection point moves continuously away from the loop. This migration is also pronounced in the X component profiles.

It is difficult to observe this on the odd numbered lines due to their short line length away from the loop (400 m). This migration pattern can be modelled with a homogeneous half space (H.H.S.) response of a 2000 ohm-m half space (figure 5). This model is a reasonable approximation to a thick sedimentary sequence of uniform resistivity.

Transmit Loop 2

Position: L 7+00N, 0+00E
 L15+00N, 0+00E
 L15+00N, 4+00E
 L 7+00N, 0+00E

Coverage: L 8+00N, 0+50E -12+00E
 L 9+00N, 0+50E - 8+00E
 L10+00N, 0+50E -12+00E
 L11+00N, 0+50E - 8+00E
 L12+00N, 2+50E -12+00E
 L13+00N, 0+50E - 8+00E
 L14+00N, 0+50E -12+00E

The profile coverage from transmit loop 2 on Line 8+00N and Line 9+00N continues to demonstrate a half-space migration pattern that was observed and interpreted from the transmit loop 1 data. However, by Line 10+00N the early and mid-time (chs 1-10) show anomalies which do not migrate but stack in the region of 6+50E - 8+00E.

This anomaly (designated A) could not be adequately modelled using only a half-space response. (See figure 6, HHS - 2000 ohm-m and figure 7, HHS - 1500 ohm-m.) The response can be reasonably modelled by superpositioning a discrete plate

? 1500N X HHS MODEL 2000 OHM-M HALFSPACE

Model A: HHS 2000/Plates:

Line 600E X

Gain, TxC = 7.58 1

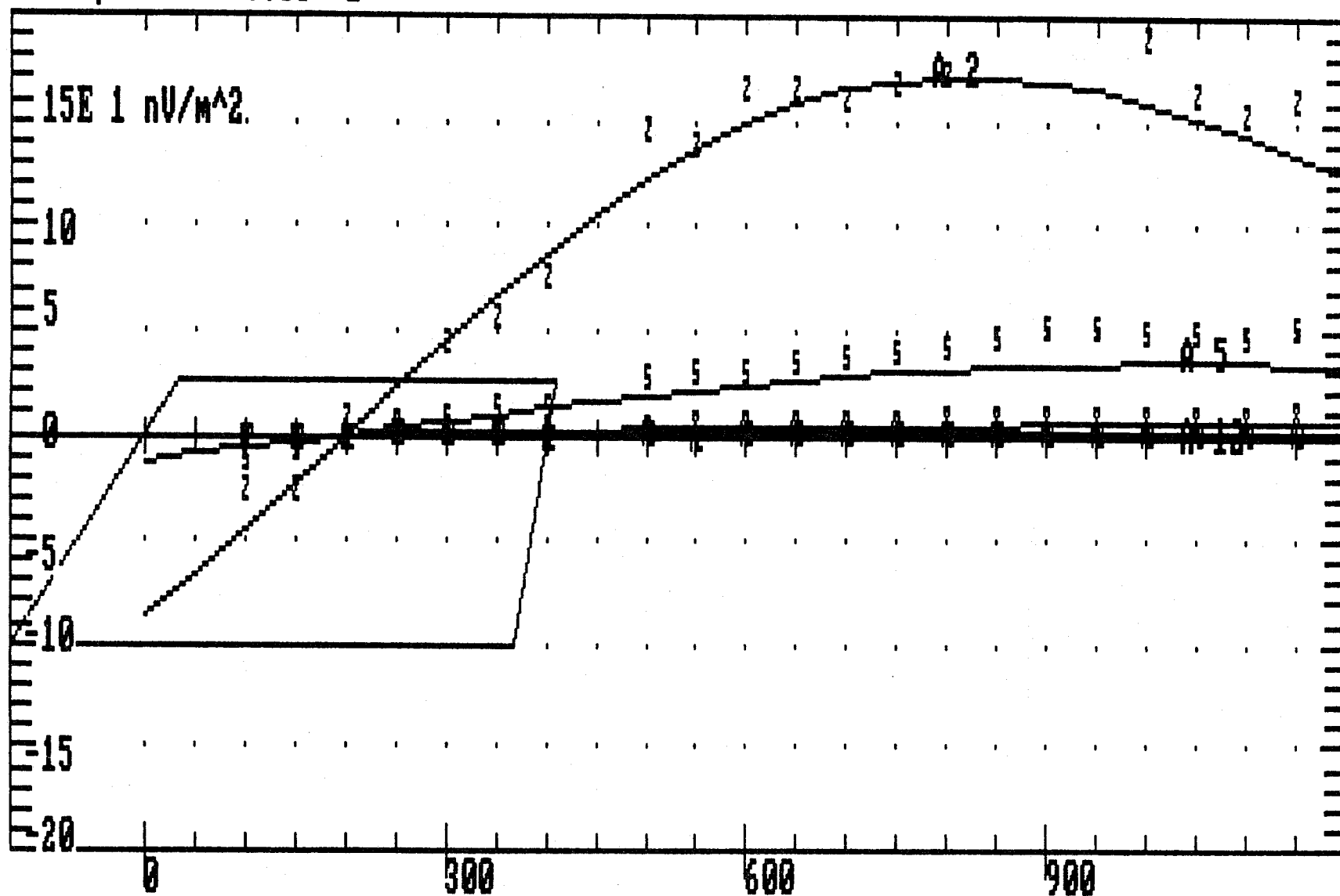


Figure 5

Solid Line: Model
Numbered Points: Field Data

conductor within a 1500m half-space as shown on figure 8. The geometry of the plate is: position Line 10+00N to Line 16+00N at 5+50E (as shown on figure 3), dipping at 45 degrees east, depth to the top of the conductor 25m, depth extent 1200m and a conductivity thickness of 1 mho. The source of the conductor is probably not massive sulphide mineralization because a conductivity thickness value of 1 mho is too low for sulphides.

The model appears to be geologically reasonable and occurs in the general area of tourmalinite and albite alteration, favourable indicators of Sullivan type mineralization.

On Line 10+00N, 3+00E a 20 channel conductor was delineated (Anomaly B). The anomaly shows a very strong X component but only a subtle Z field disturbance. This response was observed in the field and steps were taken to check the reliability of the data. The anomaly is very narrow, occurring at only two stations (2+50E and 3+00E) and as a result is interpreted to be caused by a shallow source. The X field maximum symmetry occurring within the transmit loop would also indicate that the causative body is oriented in a horizontal to shallow dip attitude.

The anomaly does not appear along strike either to the north or south. Numerical modelling of this anomaly did not provide reasonable approximations to the observed results. This anomaly is interpreted to be mapping a conductive layer between the skree slope on which the readings were taken and bedrock. This could possibly be an unconsolidated sediment or spring. The anomaly is not felt to be of significance with regard to the initial geological target that the survey was designed to test for.

? L1400N X MODEL 2000 OHM-M HALFSPACE

Model A: HHS 2000/Plates:

Line 600E X

Gain, TxC = 7.58 1

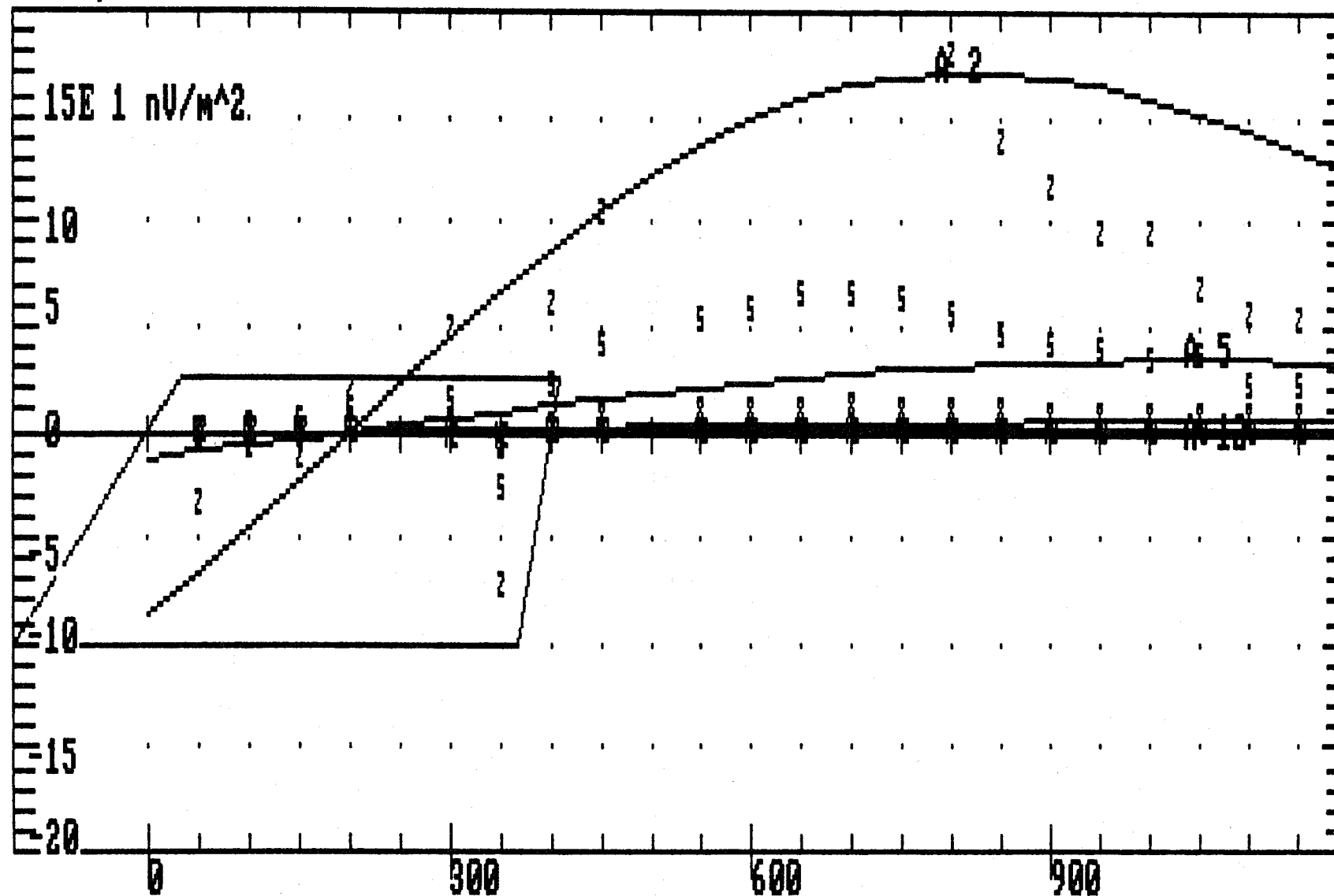


Figure 6

Solid Line: Model
Numbered Points: Field Data

Transmit Loop 3

Position: L14+00N, 4+00E
 L22+00N, 4+00E
 L22+00N, 8+00E
 L14+00N, 8+00E

Coverage: L15+00N, 4+50E - 7+50E
 L16+00N, 4+50E - 12+00E
 L17+00N, 5+00E - 8+00E
 L18+00N, 5+00E - 12+00E
 L19+00N, 5+00E - 8+00E
 L20+00N, 5+00E - 12+00E
 L21+00N, 4+50E - 8+00E

The position of transmit loop 3 was located 400m further east than the previous two loops. This provides a set of data which maps the target horizon from a second electromagnetic induction angle. Unfortunately a large portion of this data set contains significant cultural noise primarily from a set of railway tracks which wind through the property sometimes crossing a single profile three times.

An important fact can be drawn from the X component of Line 16+00N. The pattern of X peaks in the early to midtime, (chs 1-10) located at 11+00E, migrate slowly away from the transmit loop. This pattern is very similar to that interpreted from transmit loop 2 (Anomaly A). The decay and migration pattern are similarly located approximately 300m from the transmit loop edge. This is a strong argument for the cause of anomaly A, delineated in loop 2, being an increase in the apparent conductivity of the background host. If the source of anomaly A was a discrete body conductor, a response with a similar pattern to that of loop 2 would be located along strike from A at 7+50 - 8+00E. Unfortunately these stations are badly interfered with by the response of the railway tracks.

? L1400N X HHS MODEL 1500 OHM-M HALFSPACE

Model A: HHS 1500/Plates:

Line 600E X

Gain, TxC = 7.58 1

Resistivity? 1500

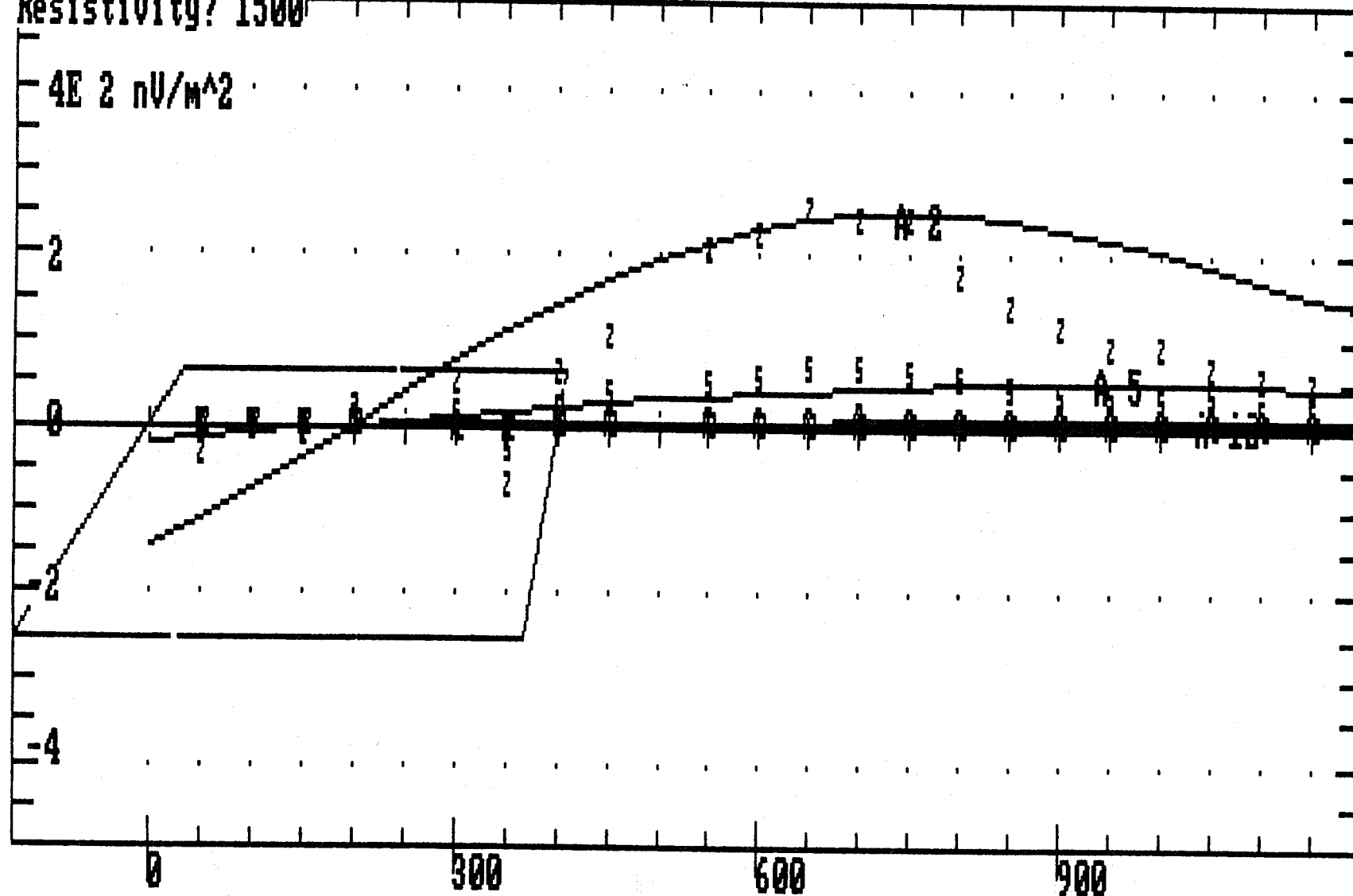


Figure 7

Solid Line: Model
Numbered Points: Field Data

Transmit Loop 4

Position: L21+00N, 0+00E
 L21+00N, 4+00E
 L29+00N, 4+00E
 L29+00N, 0+00E

Coverage: L22+00N, 1+50E -11+50E
 L23+00N, 1+00E - 8+00E
 L24+00N, 1+00E -12+00E
 L25+00N, 0+50E - 8+00E
 L26+00N, 1+00E -11+50E
 L27+00N, 0+50E - 8+00E
 L28+00N, 1+00E -12+00E

Transmit loop 4 was positioned back on the western boundary of the property, similar to TX1 and TX2 to provide coupling with the easterly dipping Aldridge horizon. The cultural noise problems experienced with transmit loop 2 are simplified to the railway tracks, which are located just west of 0+00E for the majority of the loop, and a pipeline located in the eastern extent of the profiles. The pipeline strikes obliquely across the property, so that although generally three stations are effectively saturated on each profile the interference does not occur at the same stratigraphic level all across the property.

On each profile a strong buildup can be seen through the loop approaching the railway track located to the west of the survey extent. Similarly a strong anomaly is seen directly over the pipeline. (See figure 3 for the position of the pipeline and railway track). Beside the cultural sources the profiles display only a background response.

Transmit Loop 5

Position: L28+00N, 0+00E
 L36+00N, 0+00E
 L36+00N, 4+00E
 L28+00N, 4+00E

? L1400N X PLATE STRIKE: GRID NORTH DIP: 45E LENGTH: 600m POSITION 1200N,550E,
 DEPTH 25m DEPTH EXTENT 1200m CON*THK: 1 MHO

Gain, TxC = 7.58 1

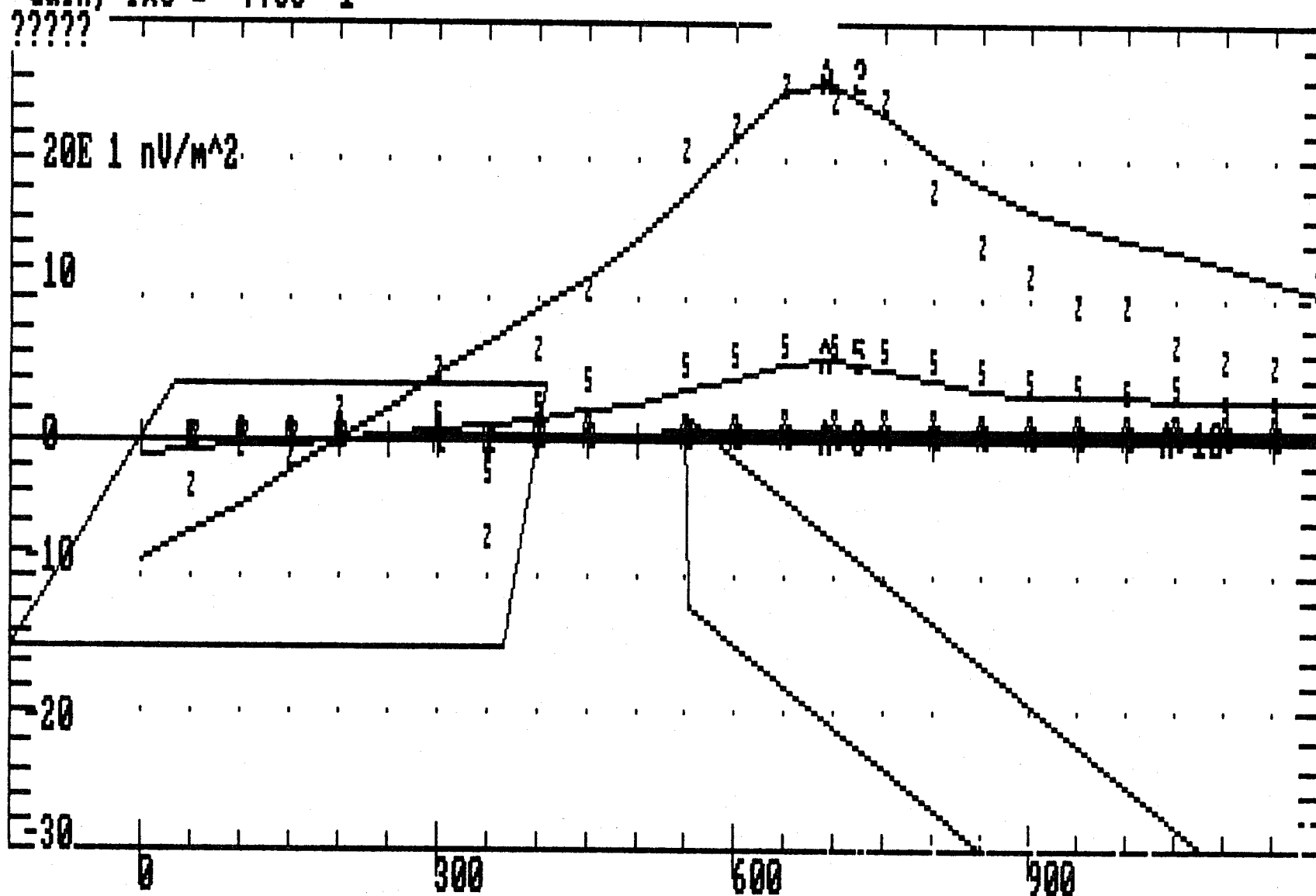


Figure 8

Solid Line: Model
 Numbered Points: Field Data

Coverage: L29+00N, 0+50E - 8+00E
L30+00N, 0+50E -11+50E
L31+00N, 0+50E - 8+00E
L32+00N, 0+50E -12+00E
L33+00N, 0+50E - 8+00E
L34+00N, 0+50E -11+00E
L35+00N, 0+50E - 8+00E

The only cultural source present on the profiles from the TX5 loop is the pipeline, which continues to angle across the property. The response of the pipeline is consistent with that seen from TX4. The rest of the profiles show host response and do not have any anomalous content.

TEM soundings were performed in areas east of the profile transmit loops which were not dominated by cultural noise sources. The soundings may be divided into two groups; the group A soundings which are located south of Line 12+00N and the group B soundings which are located north of Line 26+00N. No soundings were performed between Line 12+00N and Line 26+00N due to the presence of cultural noise sources.

The group A soundings all demonstrate a similar symmetry curve. Numerical modelling of the response of the soundings on Line 12+00N at 6+00E and on Line 8+00N 6+00E was achieved using a three layer earth model. The model parameters were (see figure 9):

<u>Layer</u>	<u>Resistivity</u>	<u>Thickness</u>
1	75 ohm-m	25m
2	2500 ohm-m	800m - 1000m
3	200 ohm-m	INF

This model indicates the presence of a conductive horizon at a depth of approximately 800m - 1000m. It should be cautioned that the forward models are developed for a flat layered earth, not dipping structures. Also the TEM profiling is interpreted to have delineated a subtle conductive anomaly (Anomaly A) beneath these soundings which will distort the sounding curves.

The group B soundings are located on Line 26+00N, Line 30+00N and Line 34+00N at station 10+00E. These soundings all show similar response curves. Numerical modeling of these curves

01200N 600E 3-LAYER EARTH ρ_a :75,2500,200 thickness(m):15,1000,INF

1.E+4 APP.RES

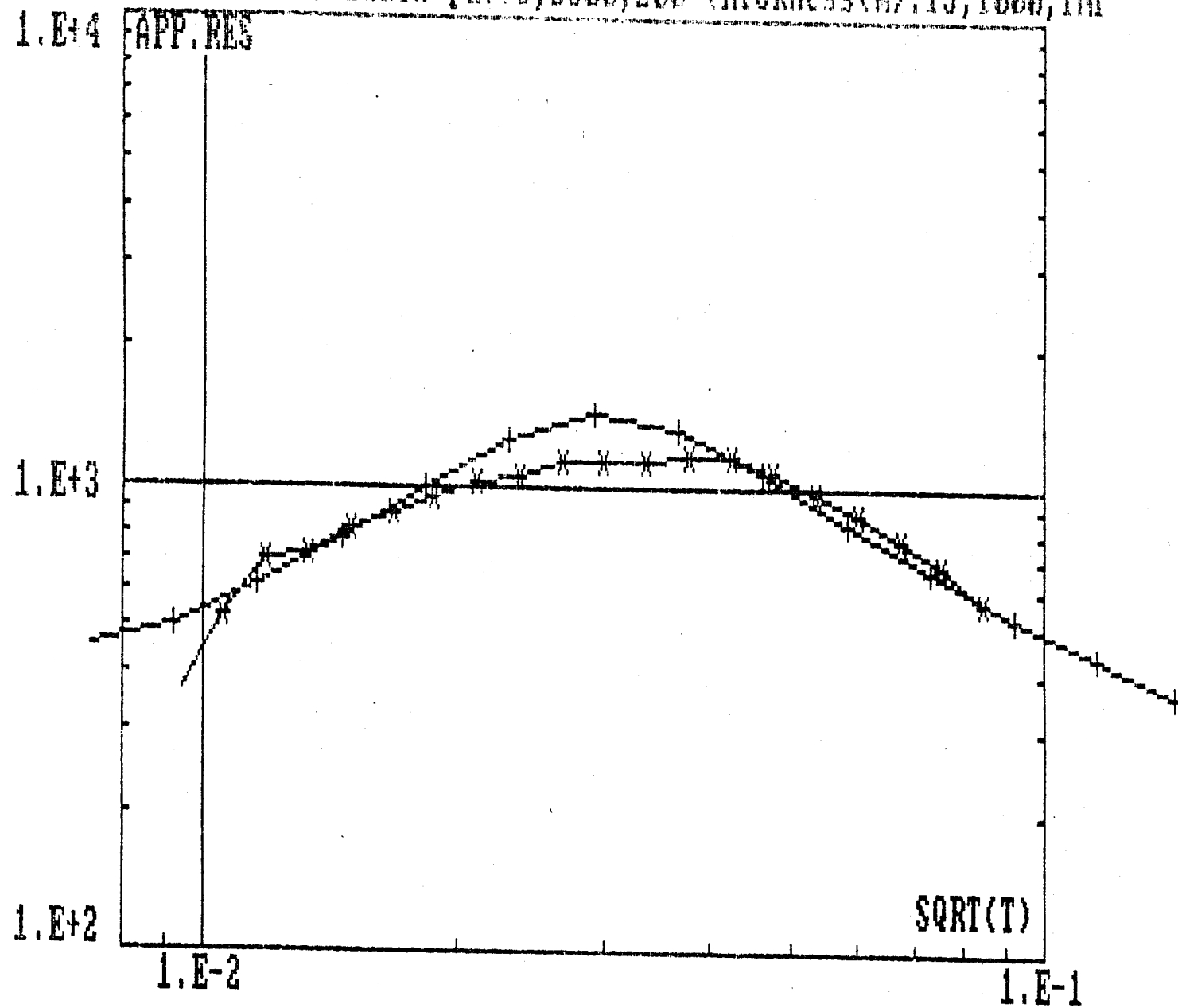


Figure 9 * : Field Data
+ : Model Data

was achieved with a two layered earth model with the following parameters (see figure 10):

<u>Layer</u>	<u>Resistivity</u>	<u>Thickness</u>
1	150 ohm-m	75m
2	3000 ohm-m	INF

The results of this modeling indicate that the TEM sounding is mapping only a resistive sequence of sediments and that the conductive layer at depth seen by the group A soundings is not present in the north part of the grid.

The group A and group B soundings then, support the presence of a fault with the down-dropped block to the north. The exact location of the fault is unclear because of the low density of effective soundings.

Several other soundings in the northern part of the property show only conductive sections (figure 11) distinctly different from the group B results. These soundings are interpreted to reflect interference from cultural sources close to the sounding points.

Magnetic Survey

The magnetic survey outlined a distinct linear high with amplitudes up to 800 gammas along the western side of the grid. The character of the anomaly indicates that it is caused by a thin subvertical dipping dyke-like body; probably a Moyie sill. There are offsets in the anomaly between lines 1400N and 1500N, lines 1900N and 2000N and lines 2000N and 2100N which are not created nor can be accounted for by the offsets in the chaining. These offsets may indirectly indicate faults. Although the strike of the faults cannot be ascertained from

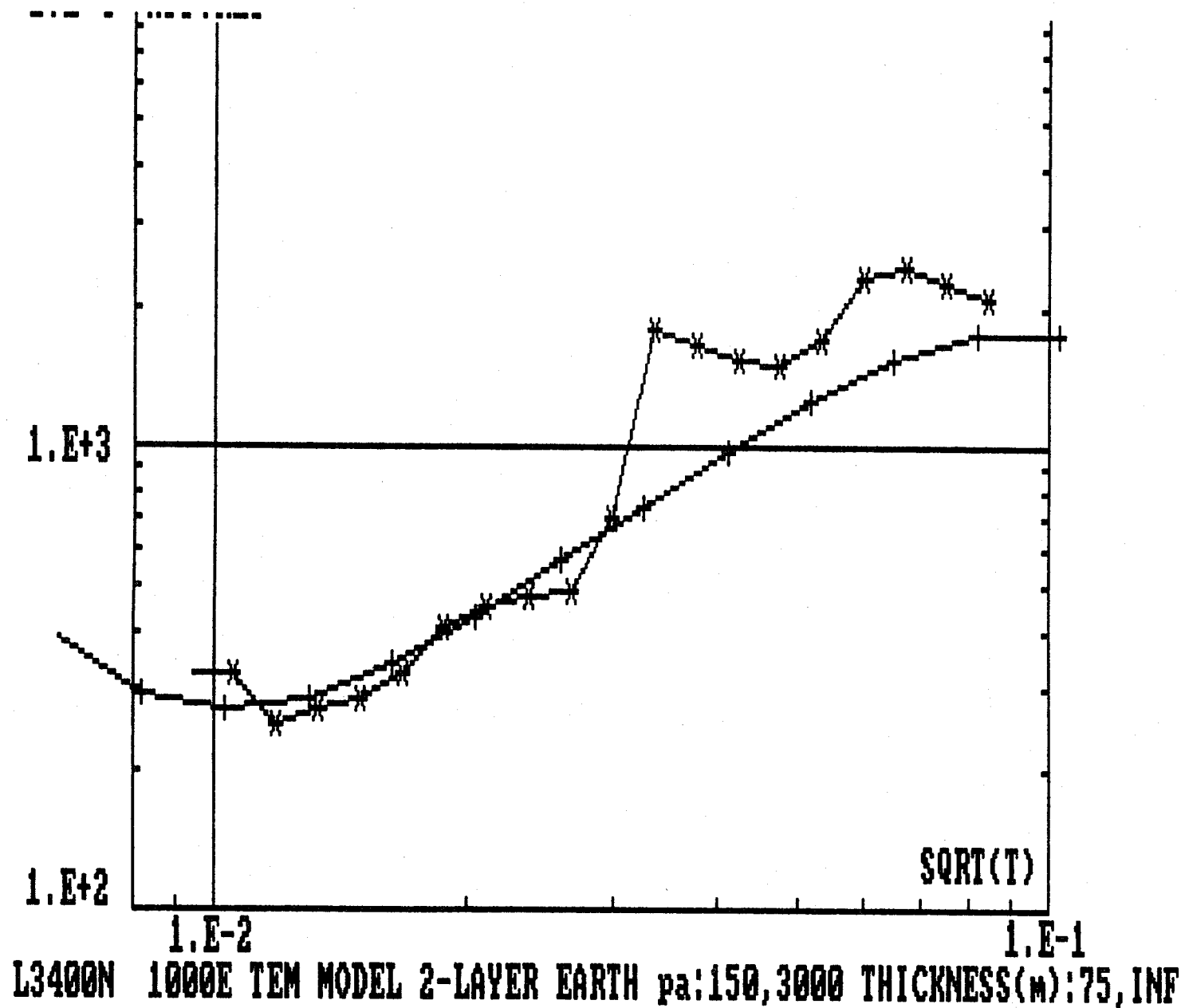


Figure 10

* : Field Data
+ : Model Data

the results, their presence provides independent evidence for the existence of the inferred graben fault.

There are several other spot anomalies evident in the results, particularly in the north half of the grid. These anomalies are believed to reflect cultural sources.

CONCLUSIONS AND RECOMMENDATIONS

The results of the TEM profiling outline two conductors (Anomaly A and Anomaly B) which are not associated with local cultural sources.

Anomaly B is located on Line 13+00N, 3+00E and is interpreted to have a shallow, conductive source. The anomaly has no apparent strike continuation either to the north or south. The symmetry of the response within the loop indicates that the source is near horizontal in attitude. The source of the anomaly is located beneath a steep skree slope and is interpreted to be caused by a spring or conductive sediment located between the skree and bedrock.

The second anomaly (Anomaly A) is an anomalous conductivity located 250m - 300m east of transmit loop #2. Attempts to model the response with a half-space model alone failed. The response could be approximated by combining a low conductivity thickness conductive plate with a 1500 ohm-m half space. The plate parameters are: location 5+50E, from 10+00N to 16+00N (variable due to culture), dips at 45° east in approximate agreement with the geology, at a depth of 25m and a depth extent of 1200m. The modelling is relatively sensitive to the depth extent of 1200m which also agrees reasonably with the TEM

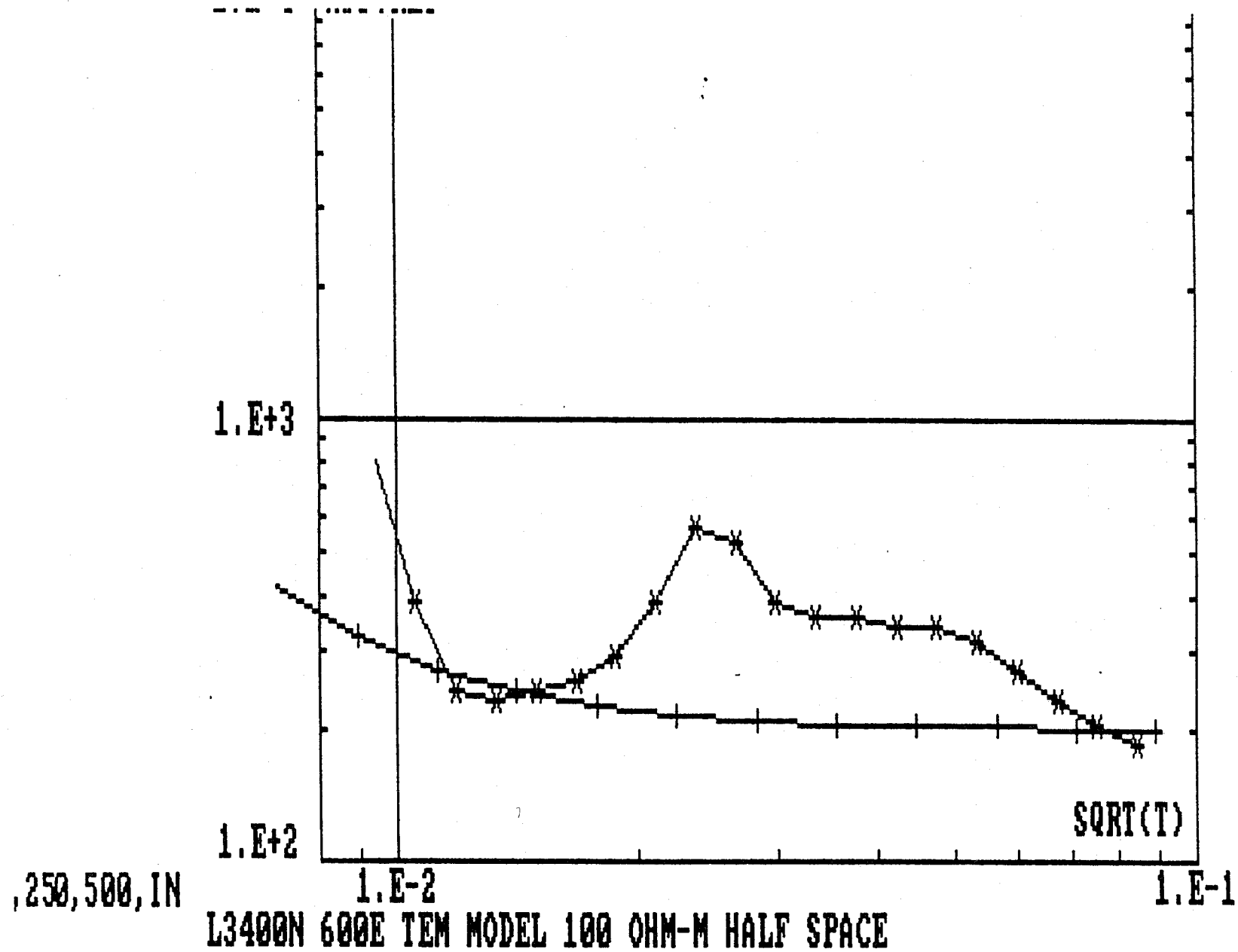


Figure 11 * : Field Data
 + : Model Data

sounding calculation in the area of 800m - 1000m thickness of sediments above basement in the area. The structural parameters of this anomaly agree well with the initial target as outlined when the survey was designed. However, the conductivity thickness of the conductor is low to be representative of a massive sulphide source. Another problem with the plate model interpretation arises from the profile data from TX3. The immediate strike extension is lost due to the cultural response of the rail tracks, however, a similar response to Anomaly A may be evident at 10+50E - 11+00E on Line 16+00N. This possible shift of the anomaly with the change of position of the transmit loop must be interpreted as a host-related response. Due to the low conductivity thickness and questionable nature of the anomaly it is not recommended as a priority drill target. It would be worth testing the conductor if a drill hole were planned in the vicinity based on geologic considerations.

The northern part of the grid contained several cultural noise sources. This resulted in the loss of data points on each profile. However, these data points changed as the pipeline and railway angled across the grid, so that a single swath of the property has not been lost to the culture.

The results of the TEM soundings are interpreted to show at least two different groups of responses.

It must be emphasized in examining the numerical model results for the TEM soundings that the numerical modelling techniques for TEM sounding interpretation have been developed for a layer earth response, not a dipping stratigraphy.

The modelling interpretation of the southern soundings (sounding points located below 12+00N) demonstrates a sedimentary thickness of 800m to 1000m overlying a conductive basement. The models of the soundings located at 10+00E from 26+00N to 34+00N do not show the presence of the conductive basement and are modelled as if resistive sedimentary sequence is infinitely thick. The difference supports the existence and sense of movement on the graben fault inferred from the geology.

The magnetic survey outlined an anomaly which is probably caused by a Moyie sill. Some offsets in the sill possibly indicate faults which occur generally in the area of the inferred graben fault.

Based on the results discussed in this report it is recommended that Anomaly A be considered as a low priority drill target. Any diamond drill holes should be logged with a TEM borehole survey. The results of the TEM soundings should be examined in regards to the geology of the area.

Respectfully submitted,


J.L. LeBel, P. Eng.
OreQuest Consultants Ltd.

R.W. Keith Morrison, B.Sc.
Quantech Consulting Inc.

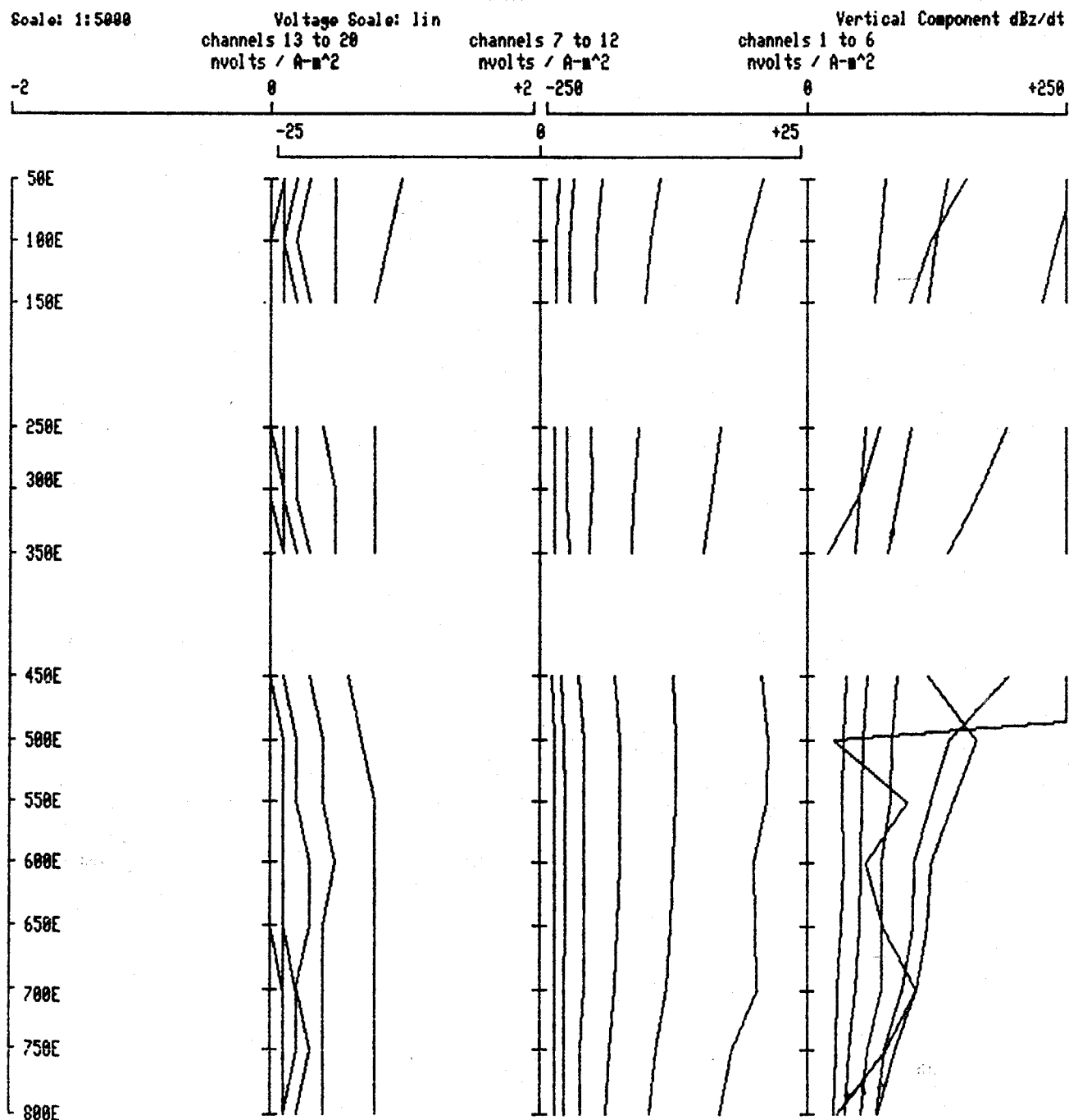
APPENDIX A

TEM Survey, Profile Data

OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	1
Grid:	60AT	Current:	8 Amps
System:	Geonics_EM-37	Position:	ON-B00N; OE-400E
Line:	L100N	Turn-off:	207 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	11/07/87	Gain:	6



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

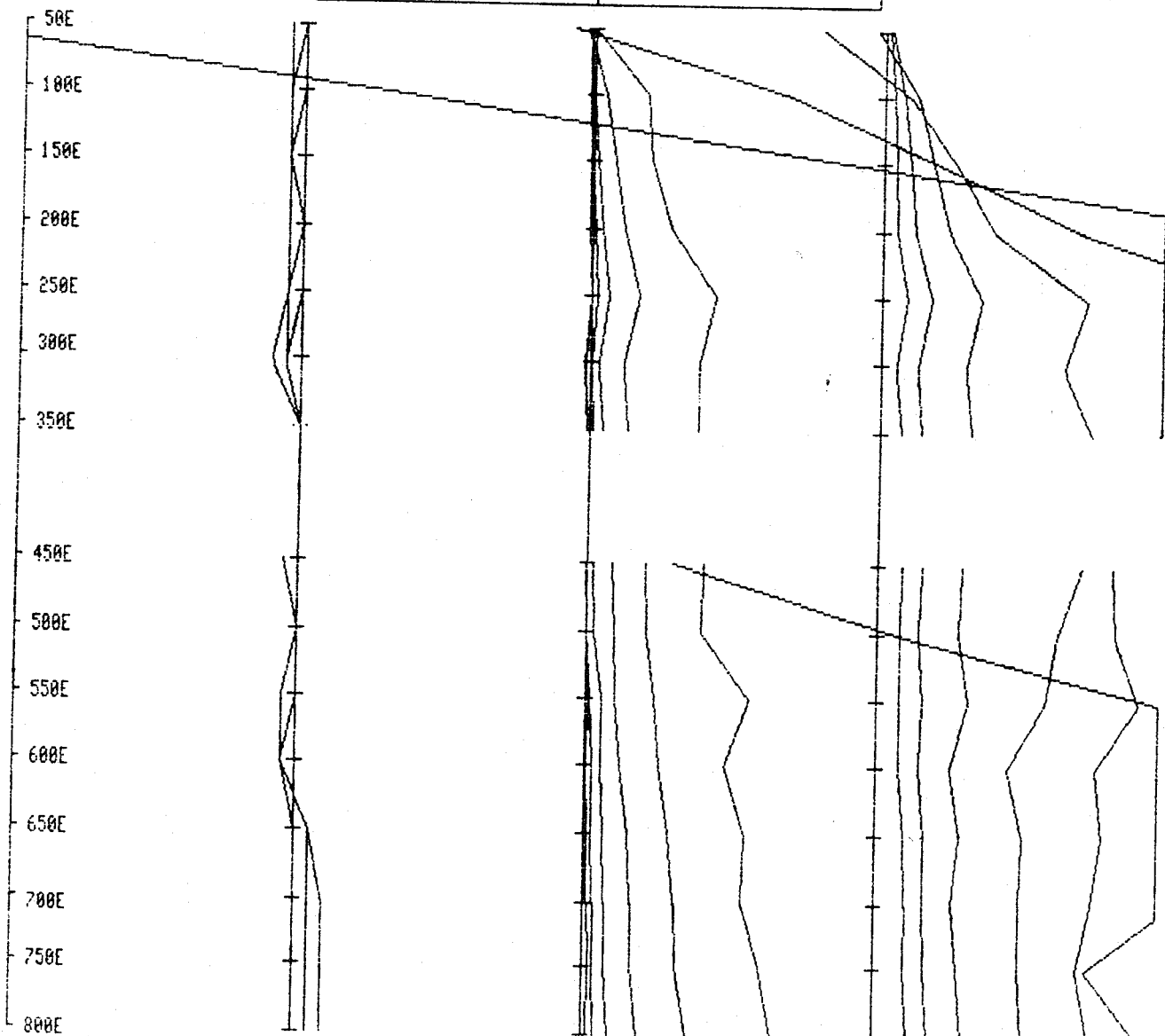
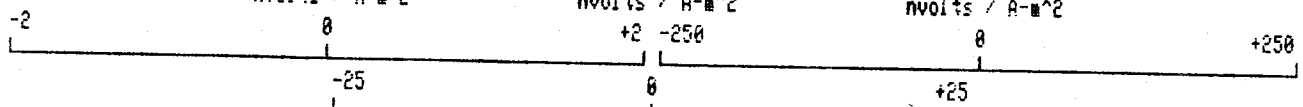
Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics EM-37	Position:	ON-800N; OE-400E
Line:	L100N	Turn-off:	207 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	11/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics EM-37	Position:	ON-800N; 0E-400E
Line:	L200N	Turn-off:	207 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	11/07/87	Gain:	6

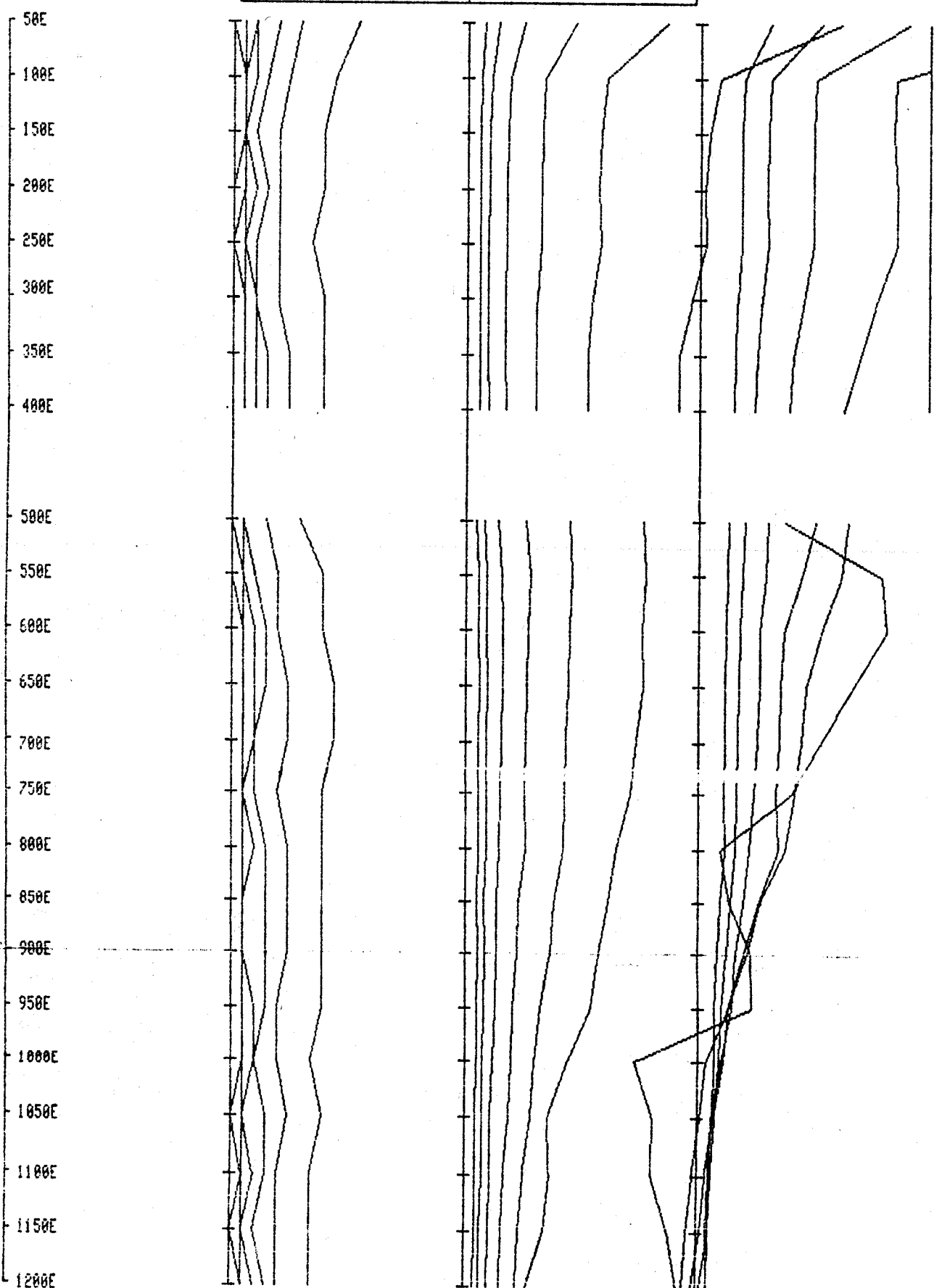
Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²

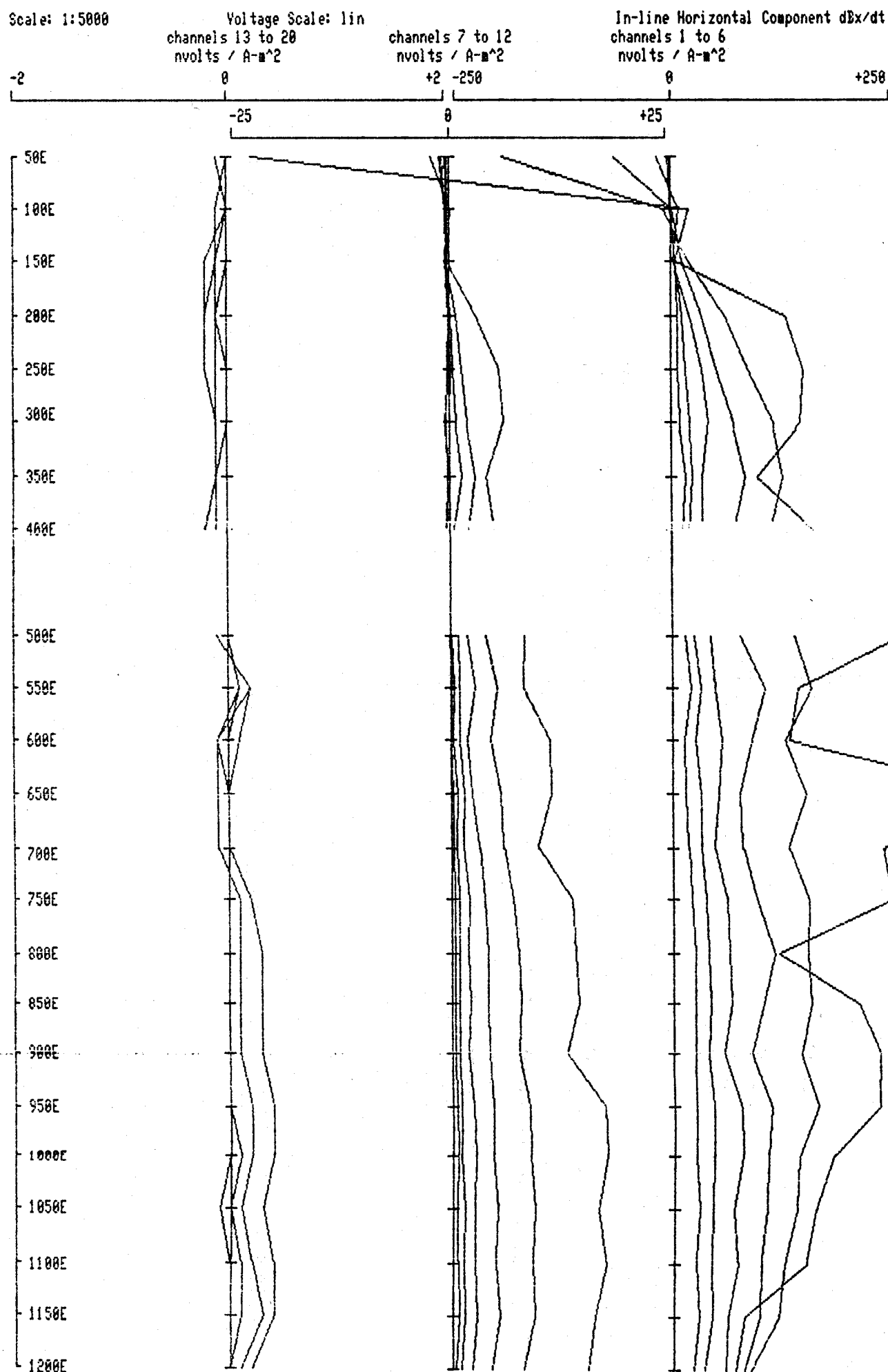
-2 0 +2 -250 0 +250



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TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	ON-800N; OE-400E
Line:	L200N	Turn-off:	207 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	11/07/87	Gain:	6



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TRANSIENT EM by QUANTECH CONSULTING INC.

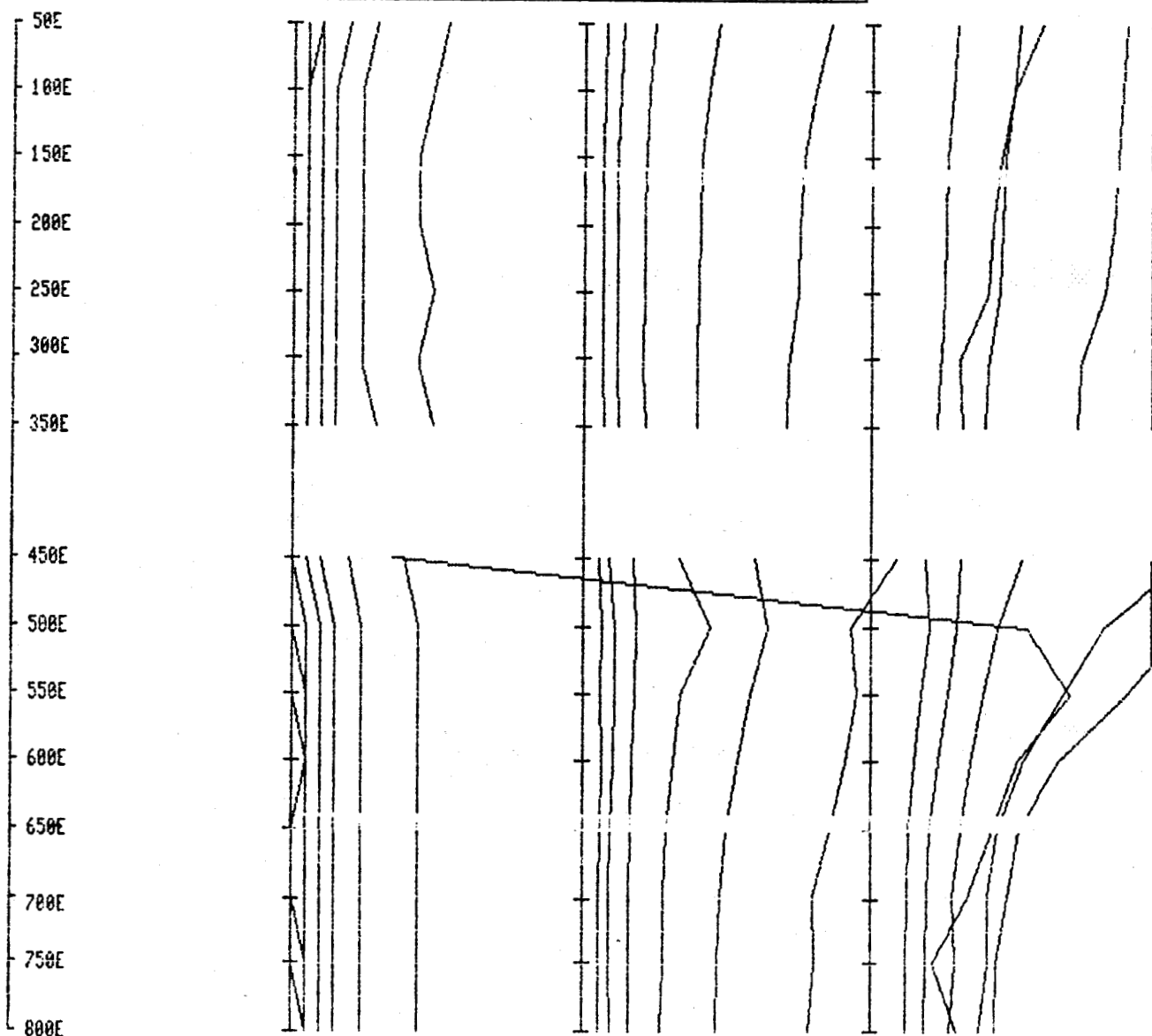
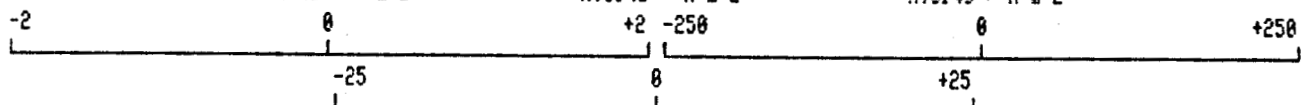
Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	ON-800N; OE-400E
Line:	L300N	Turn-off:	207 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	11/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

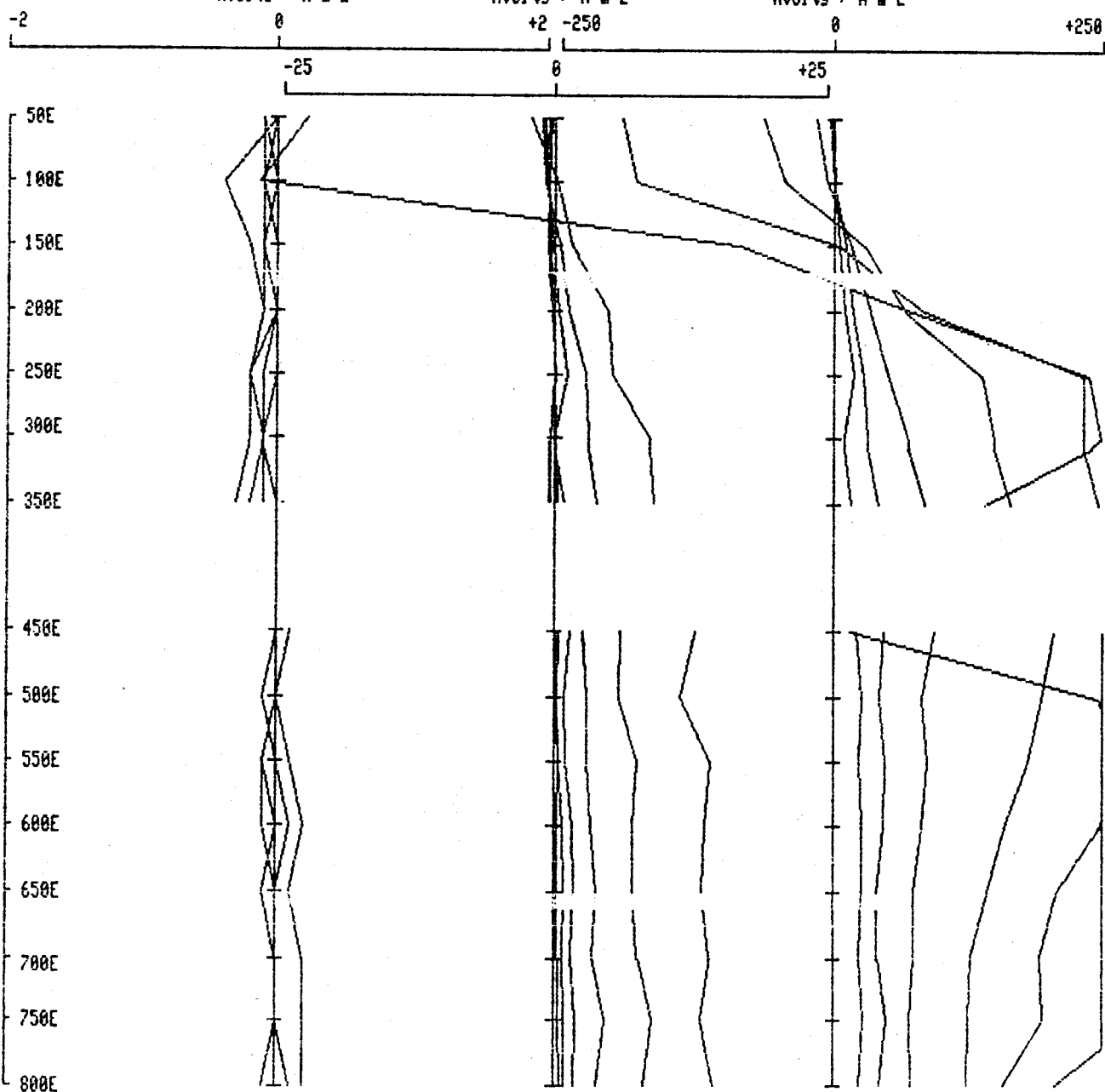
Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	ON-800N; OE-400E
Line:	L300N	Turn-off:	207 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	11/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

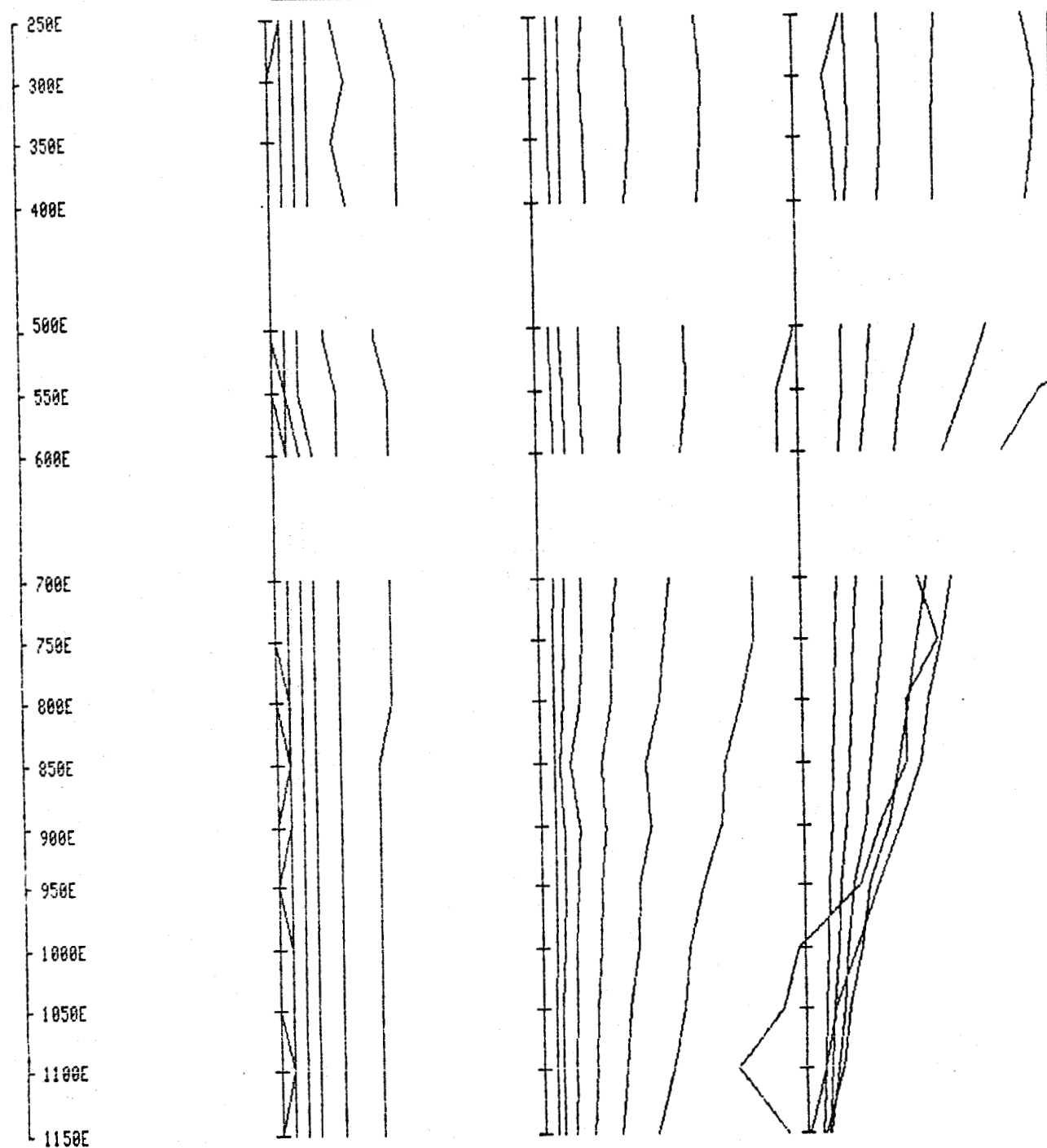
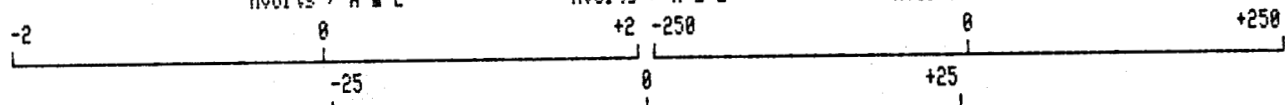
Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	ON-B00N; OE-400E
Line:	L400N	Turn-off:	207 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	11/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

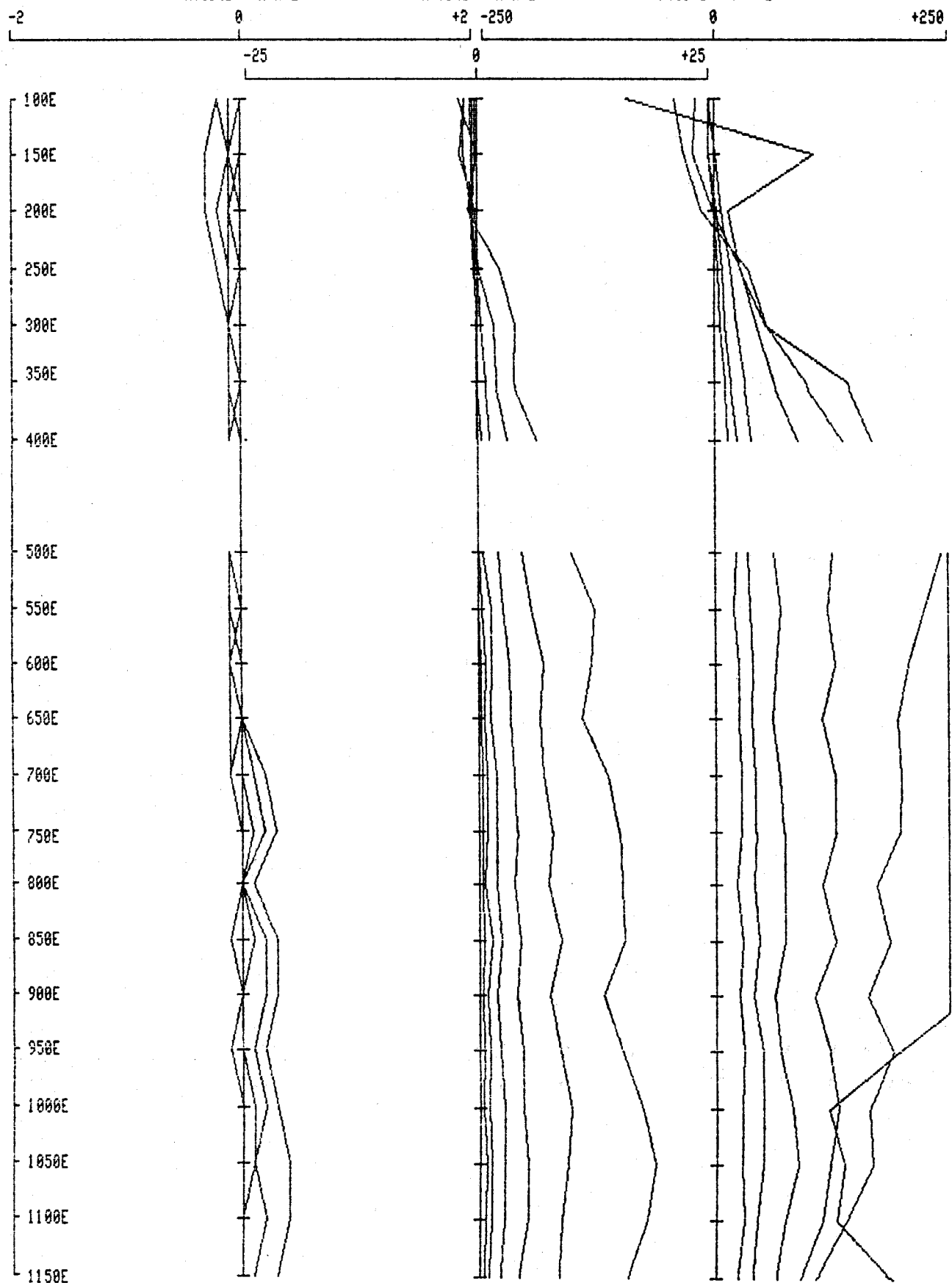
Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics EM-37	Position:	ON-800N; OE-400E
Line:	L400N	Turn-off:	207 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	11/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



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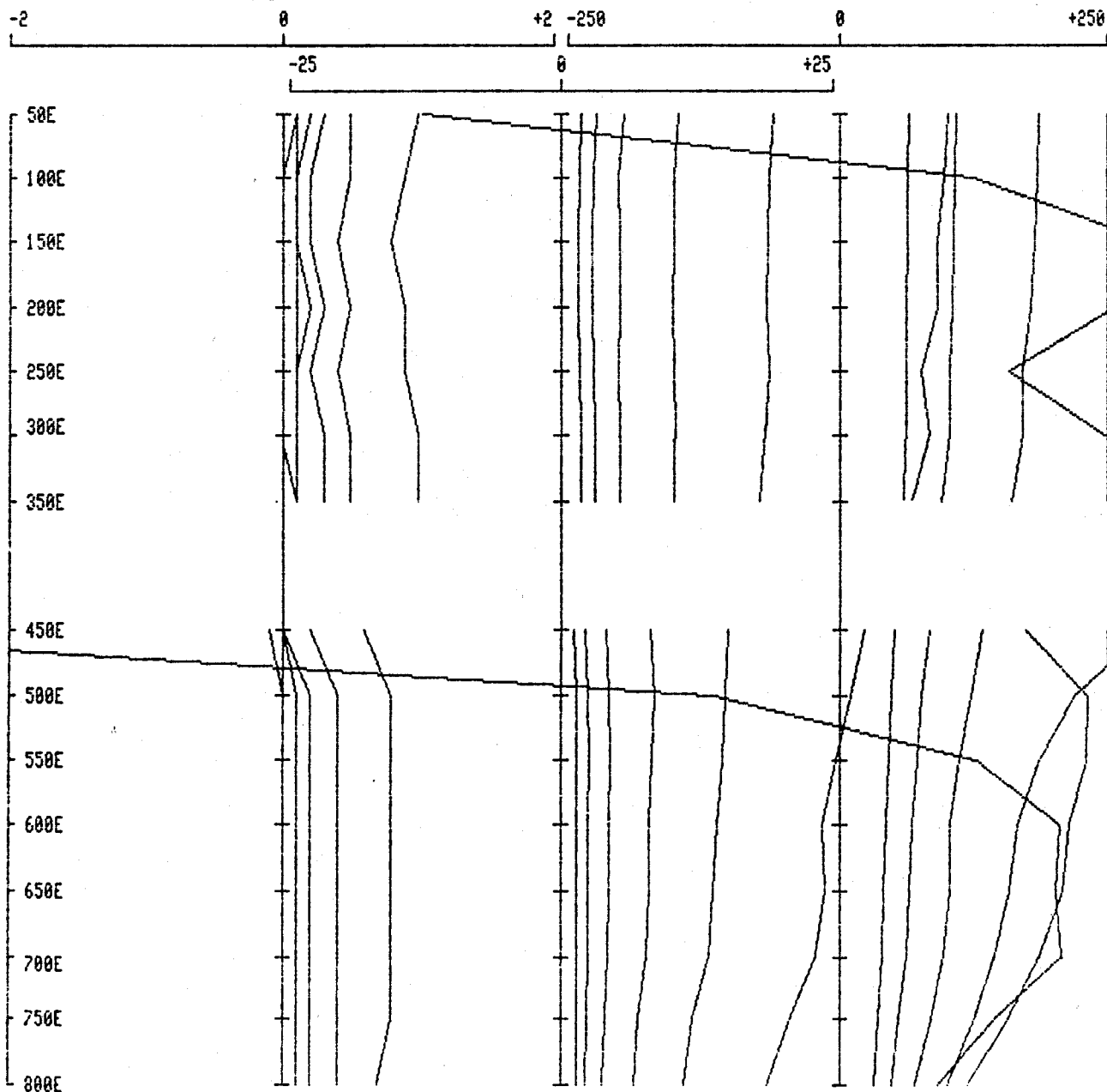
Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	ON-800N; 0E-400E
Line:	L500N	Turn-off:	195 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	12/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

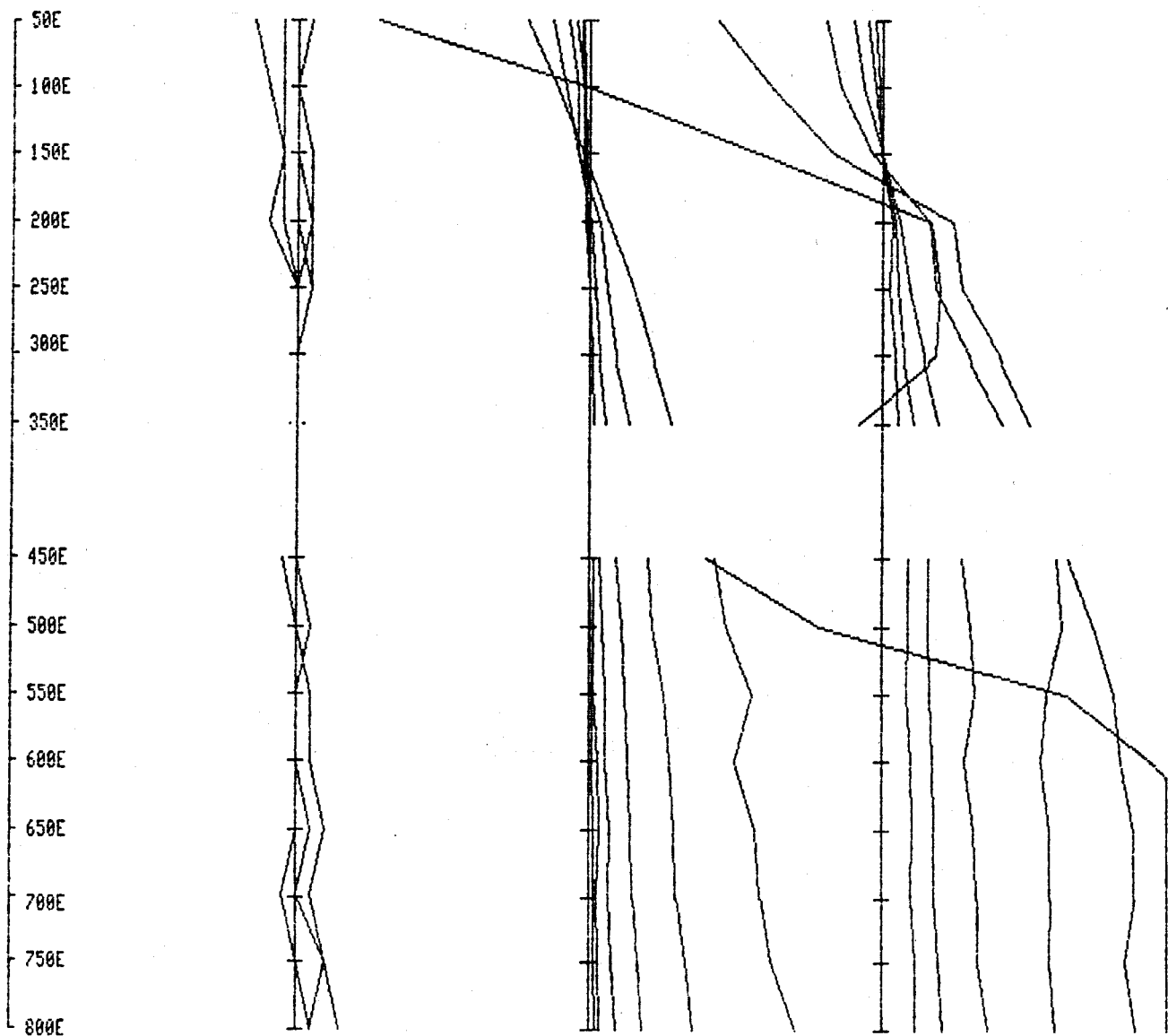
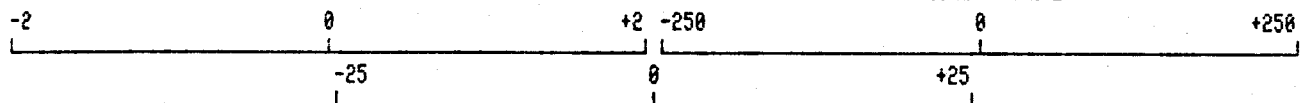
Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	ON-800N; OE-400E
Line:	L500N	Turn-off:	195 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	12/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

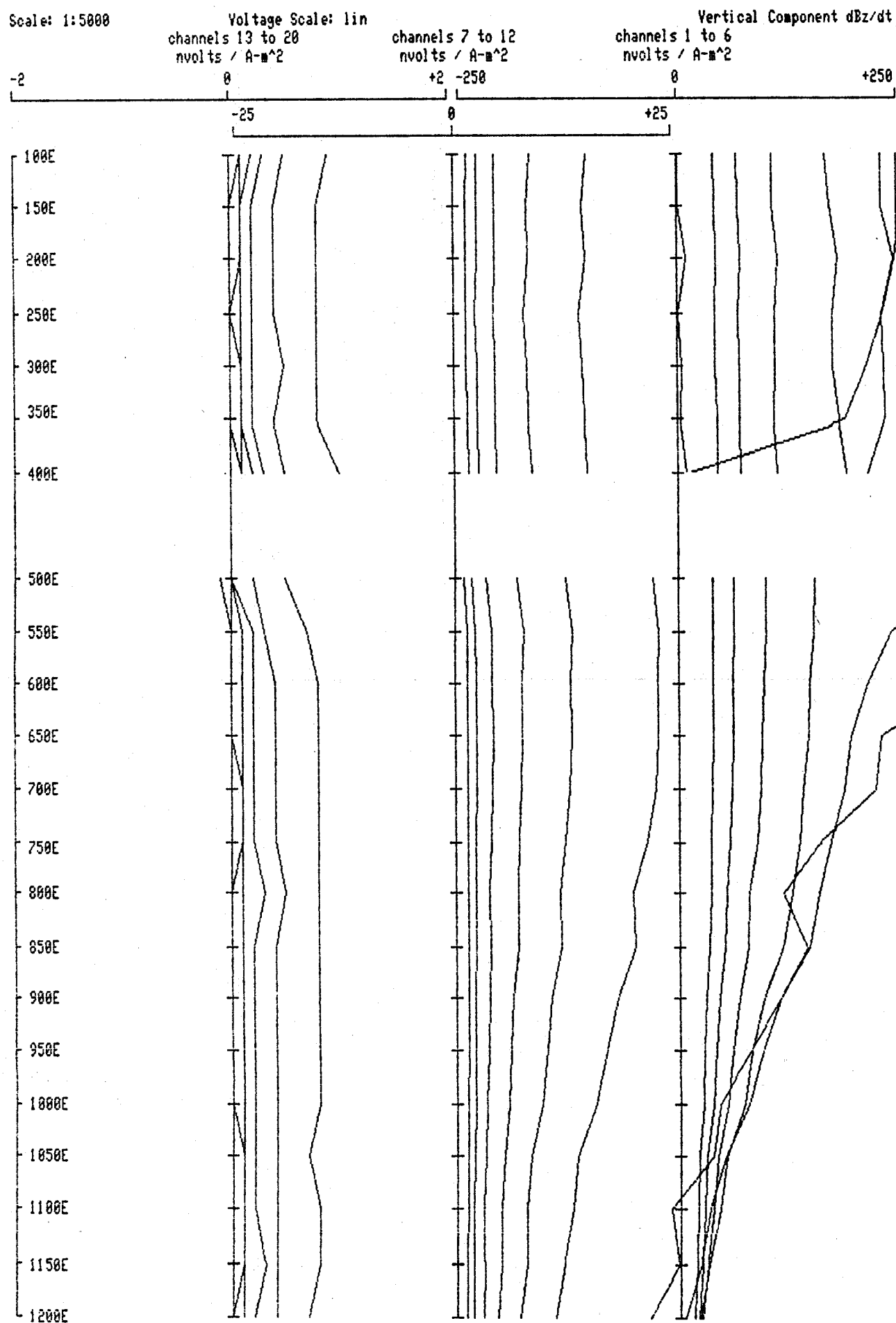
In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



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TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics EM-37	Position:	ON-800N; OE-400E
Line:	L600N	Turn-off:	195 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	12/07/87	Gain:	6



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Project: YAHK
Grid: GOAT
System: Geonics EM-37
Line: L600N
Survey mode: Surface
Date: 12/07/87

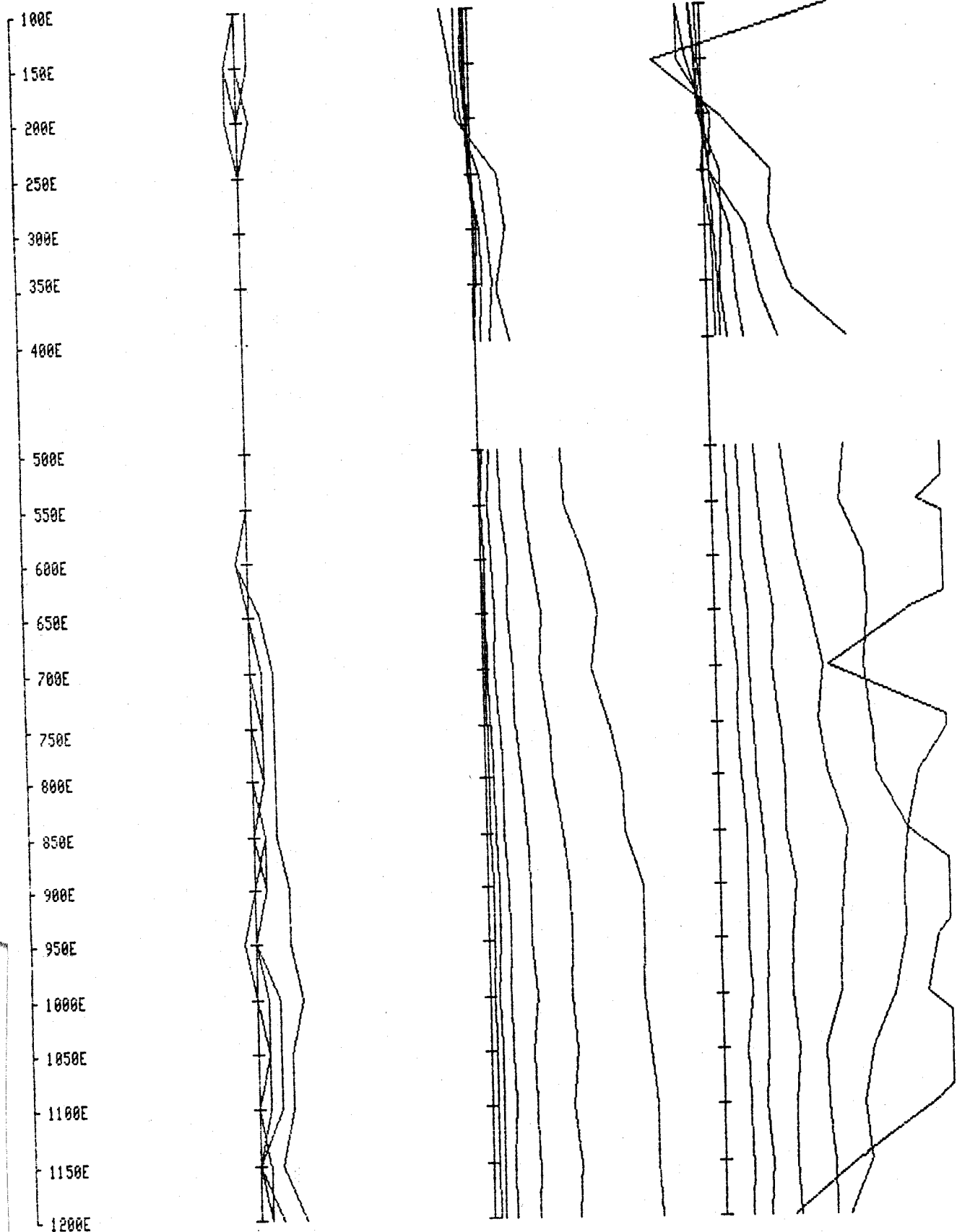
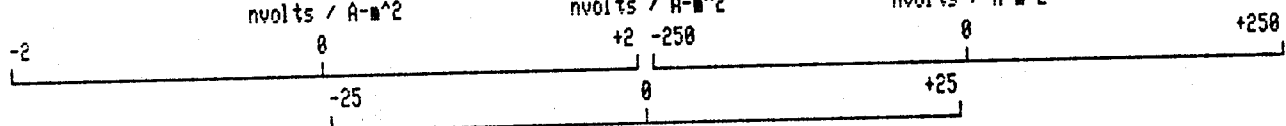
Tx Loop: 1
Current: 8 Amps
Position: ON-800N; 0E-400E
Turn-off: 195 us
Frequency: 30 Hz
Gain: 6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



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TRANSIENT EM by QUANTECH CONSULTING INC.

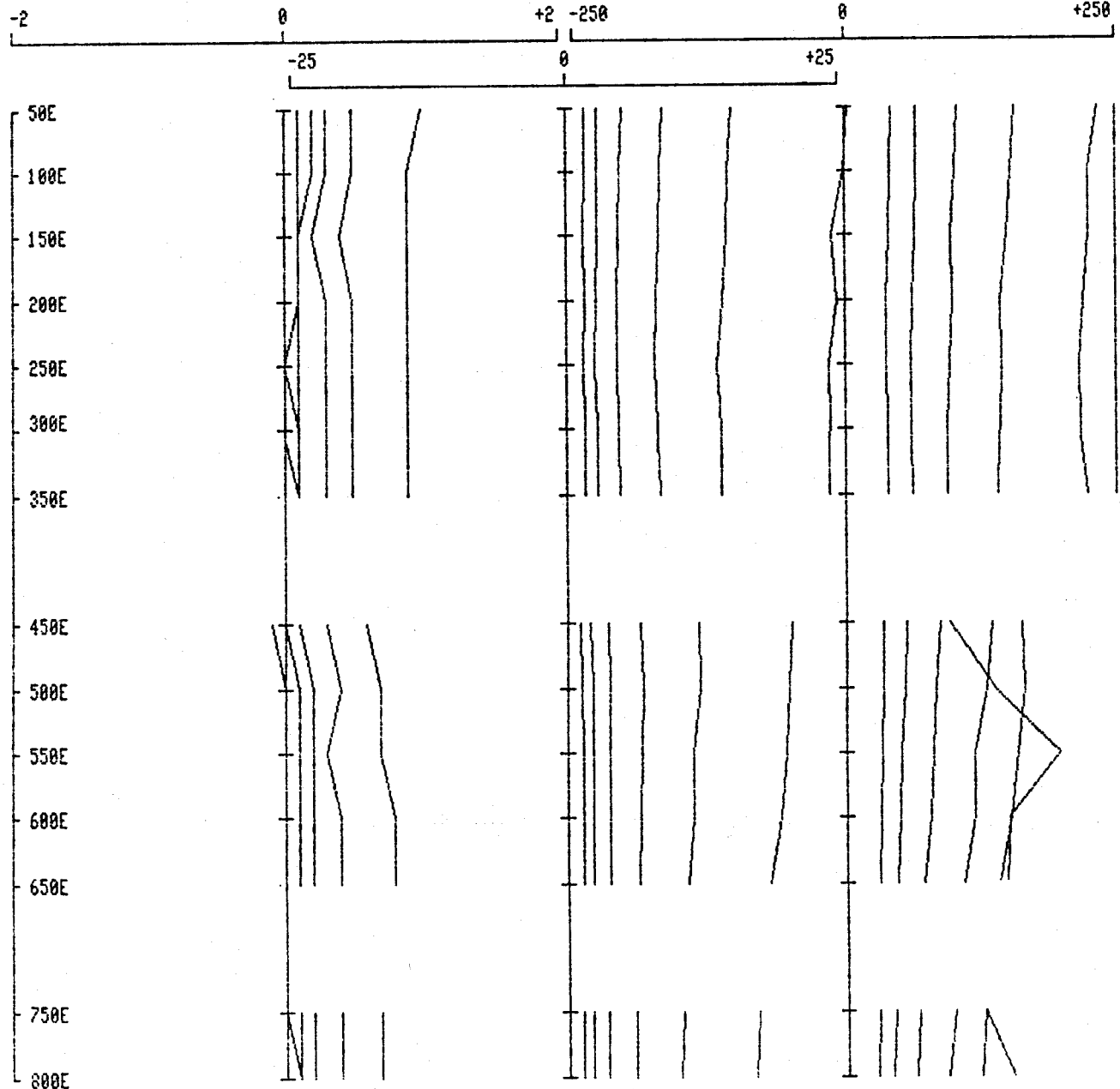
Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	ON-800N; OE-400E
Line:	L700N	Turn-off:	195 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	12/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



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TRANSIENT EM by QUANTECH CONSULTING INC.

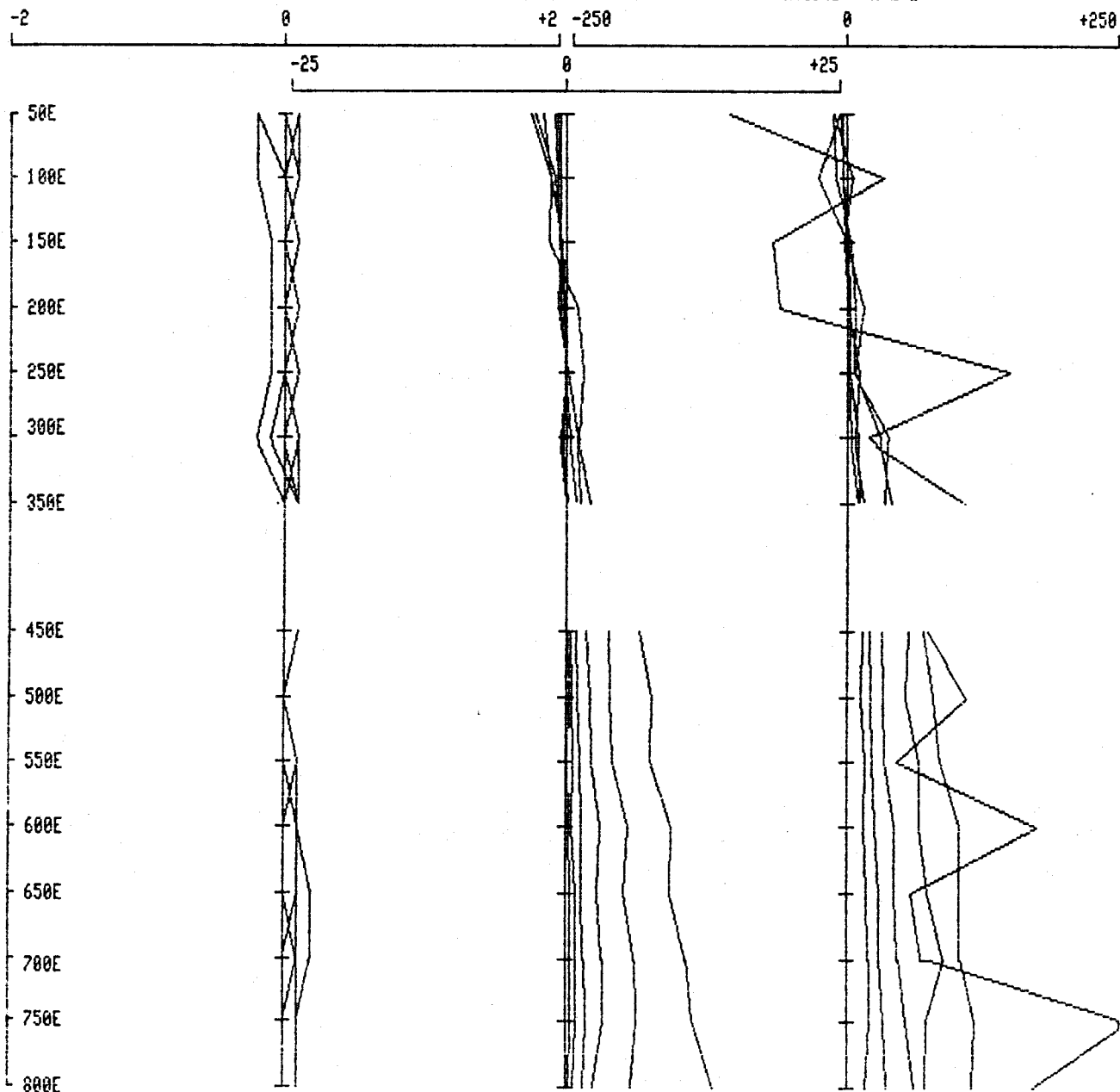
Project:	YAHK	Tx Loop:	1
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	ON-800N; OE-400E
Line:	L700N	Turn-off:	195 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	12/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



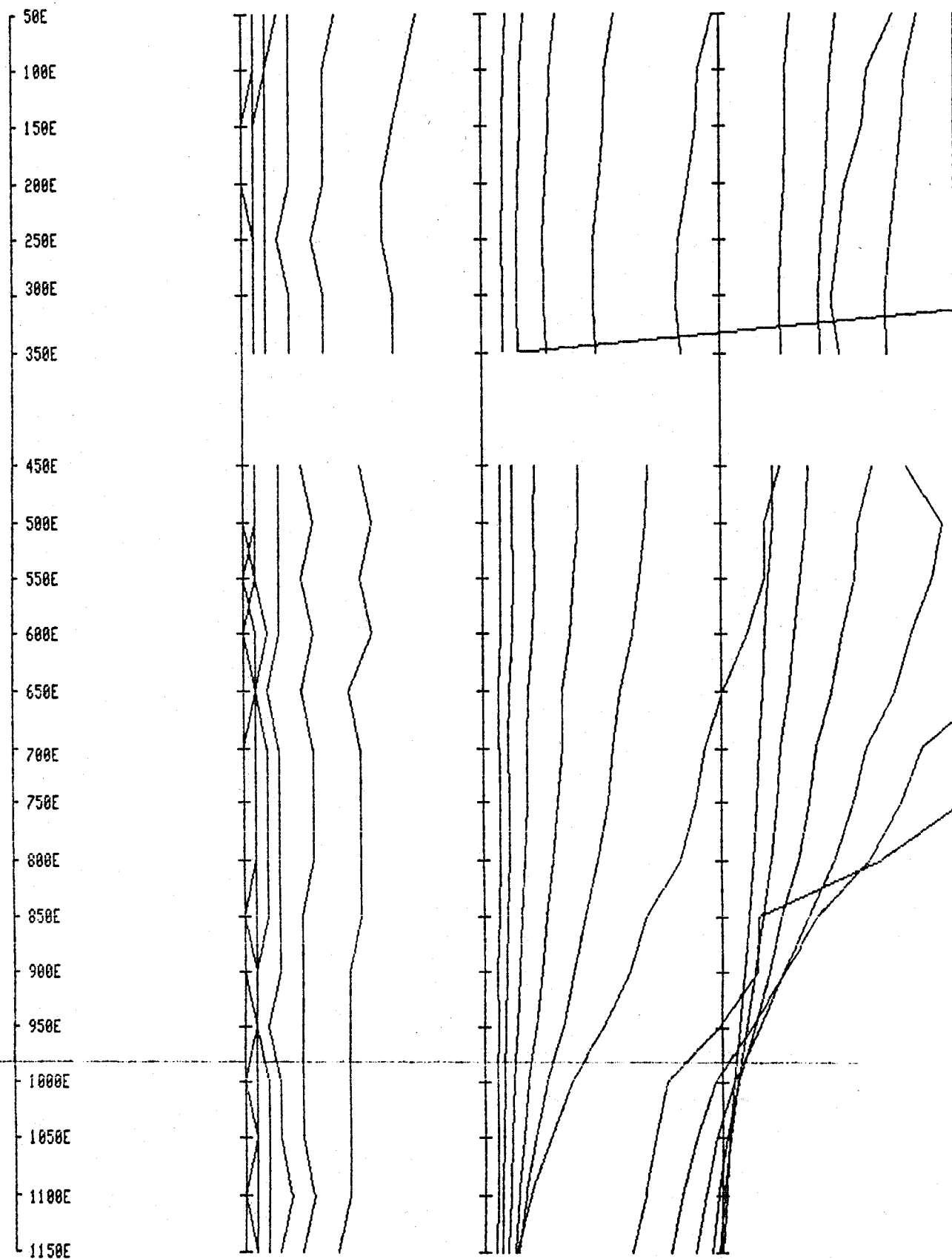
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TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; 0E-400E
Line:	L800N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	14/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin	Vertical Component dBz/dt
channels 13 to 20	channels 7 to 12
nvols / A-m ²	nvols / A-m ²
-2	+2 -250
0	0
-25	+25



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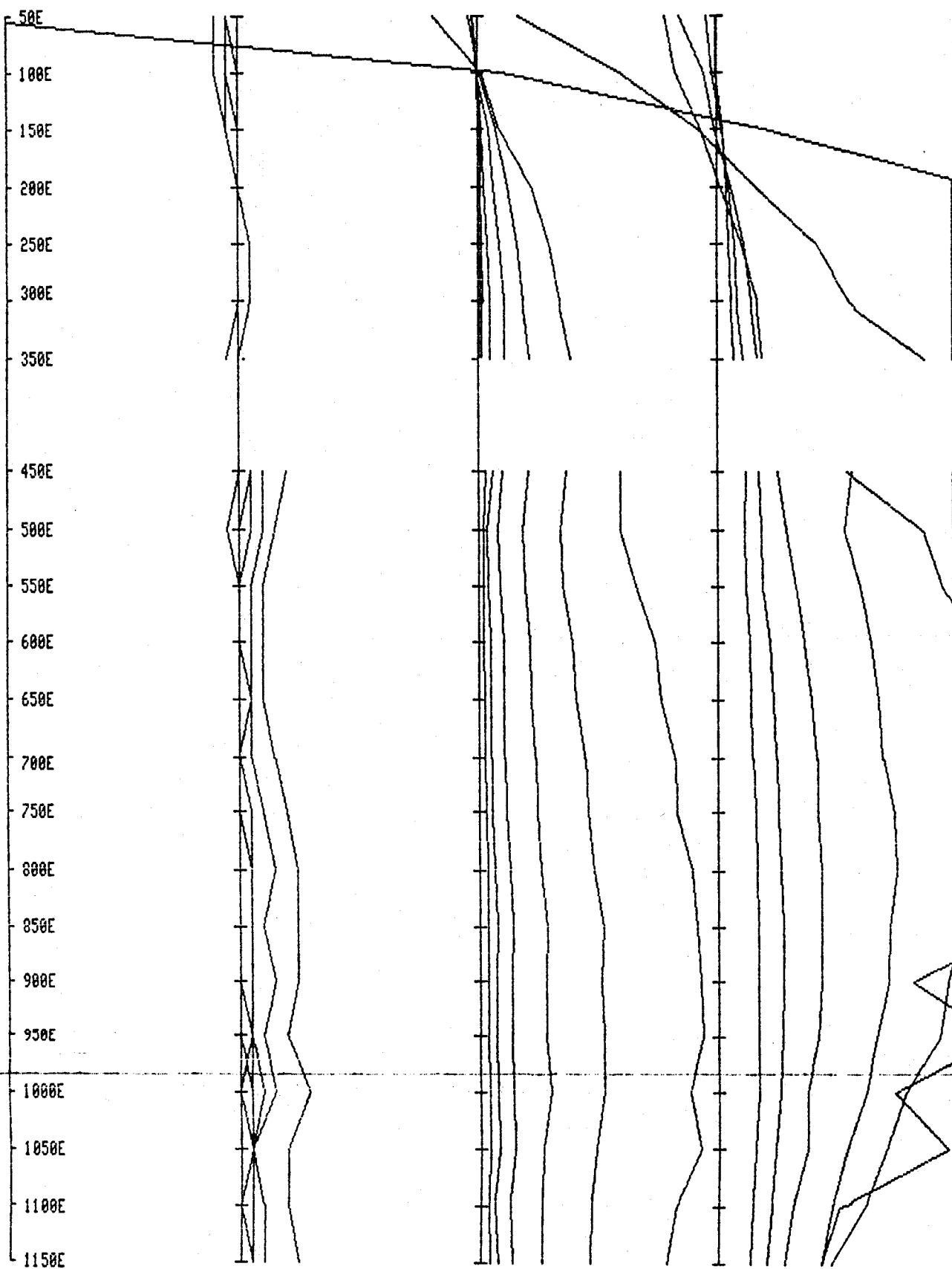
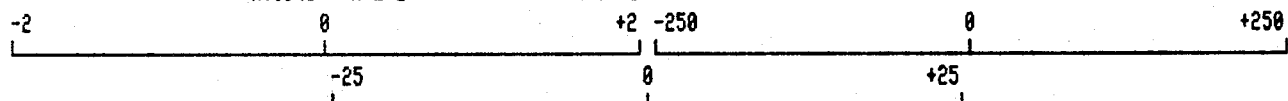
Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; OE-400E
Line:	L800N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	14/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 28
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



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TRANSIENT EM by QUANTECH CONSULTING INC.

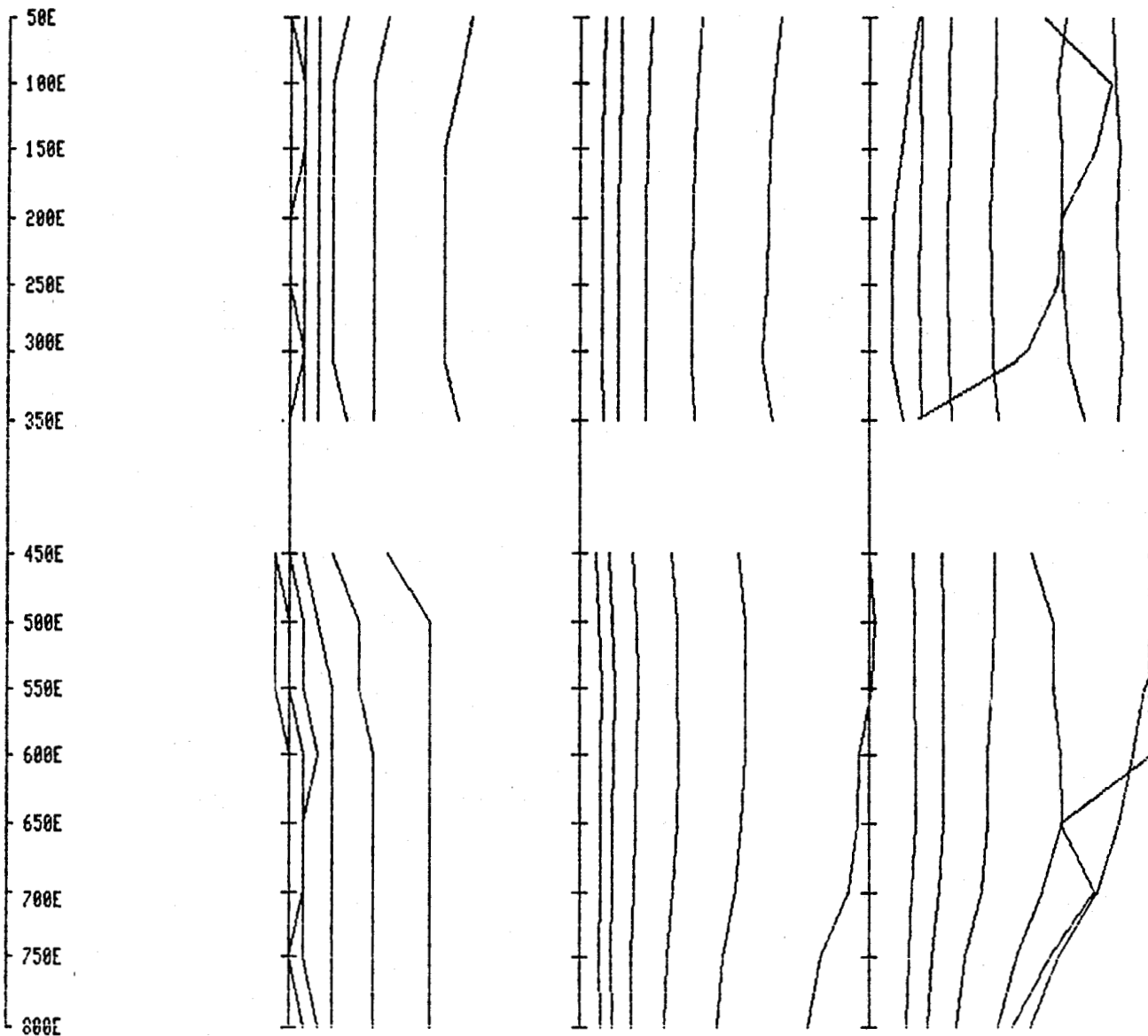
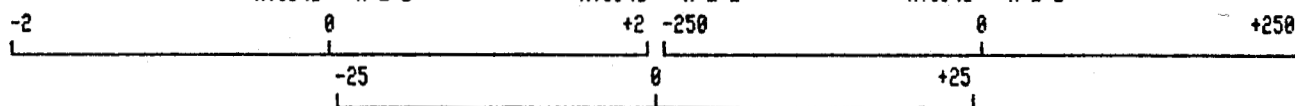
Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; OE-400E
Line:	L900N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	14/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



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TRANSIENT EM by QUANTECH CONSULTING INC.

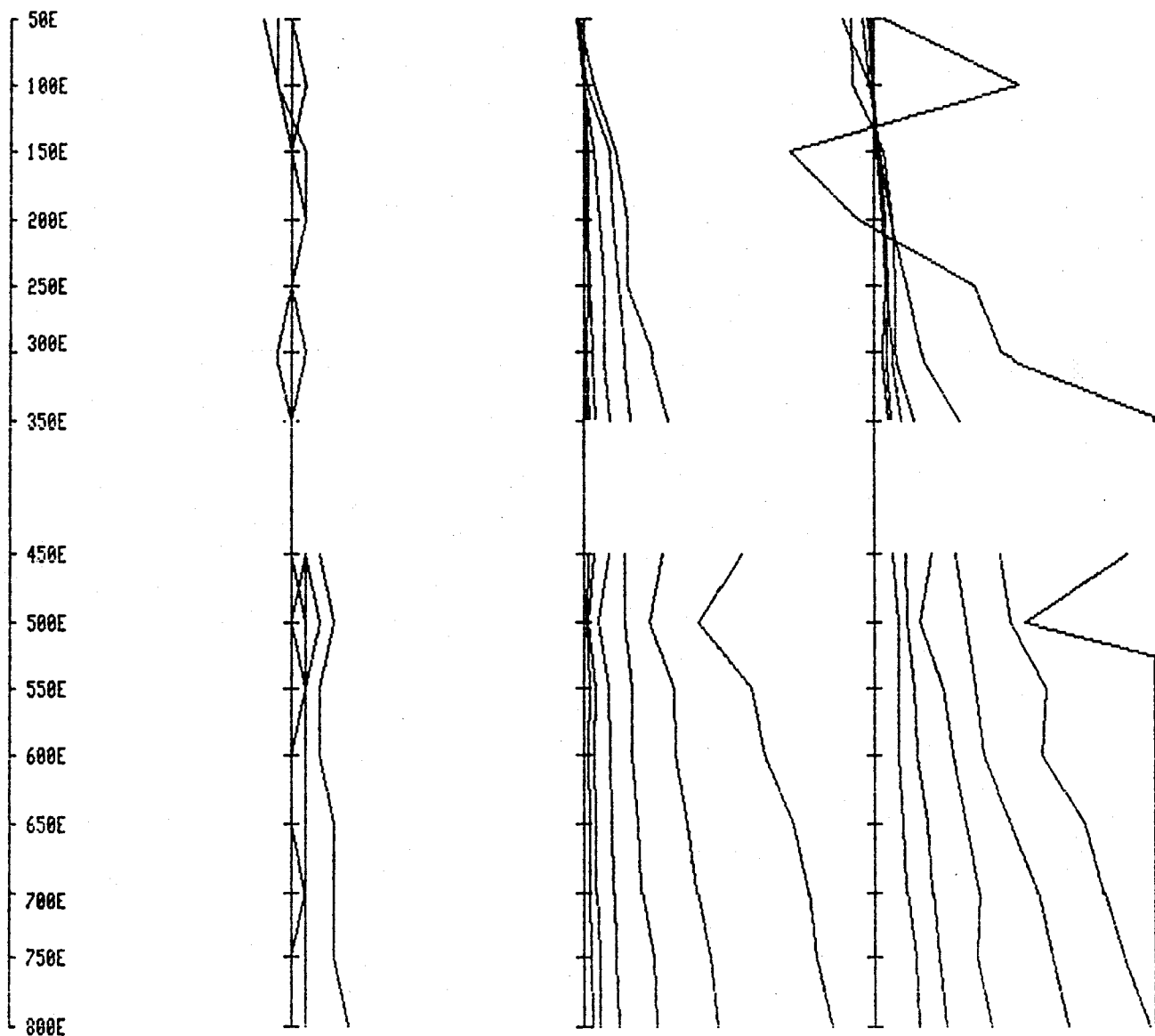
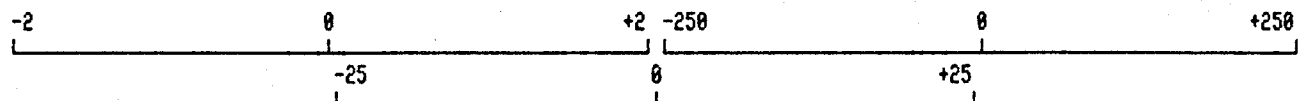
Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; OE-400E
Line:	L900N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	14/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvols / A-m²

channels 7 to 12
nvols / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvols / A-m²



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TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; OE-400E
Line:	L1000N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	14/07/87	Gain:	6

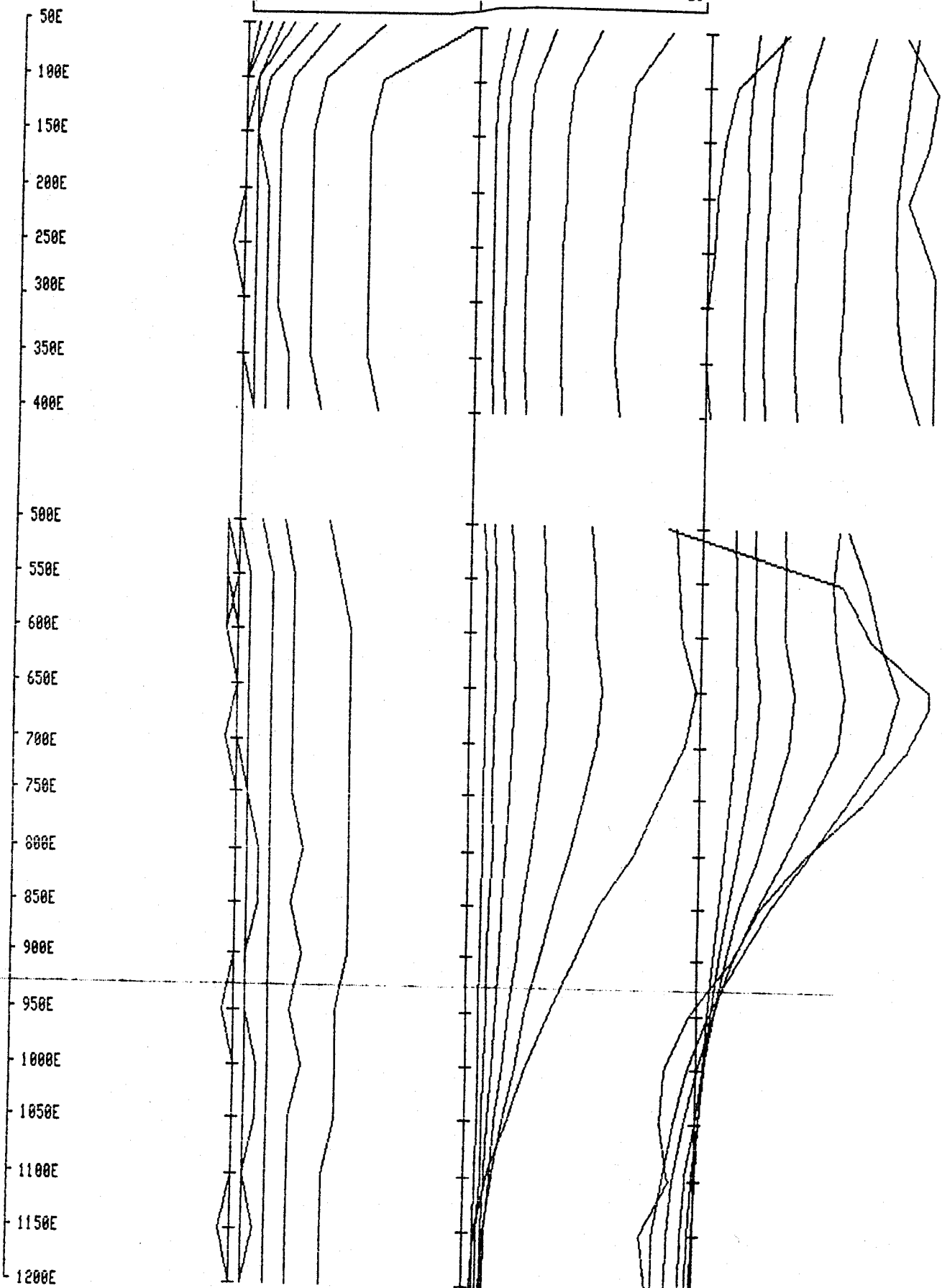
Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²

-2 0 +2 -250 0 +25 +250



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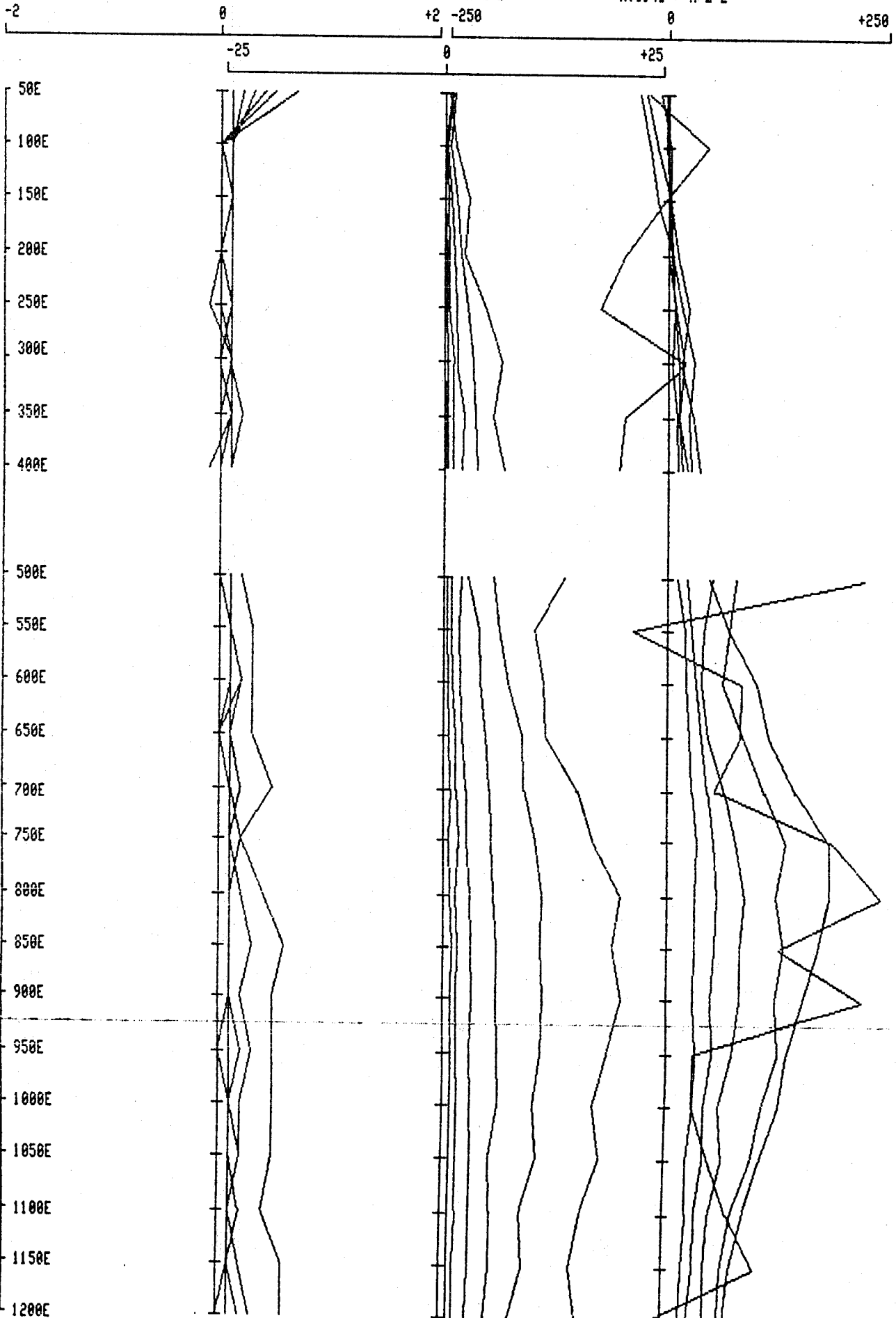
Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; 0E-400E
Line:	L1000N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	14/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



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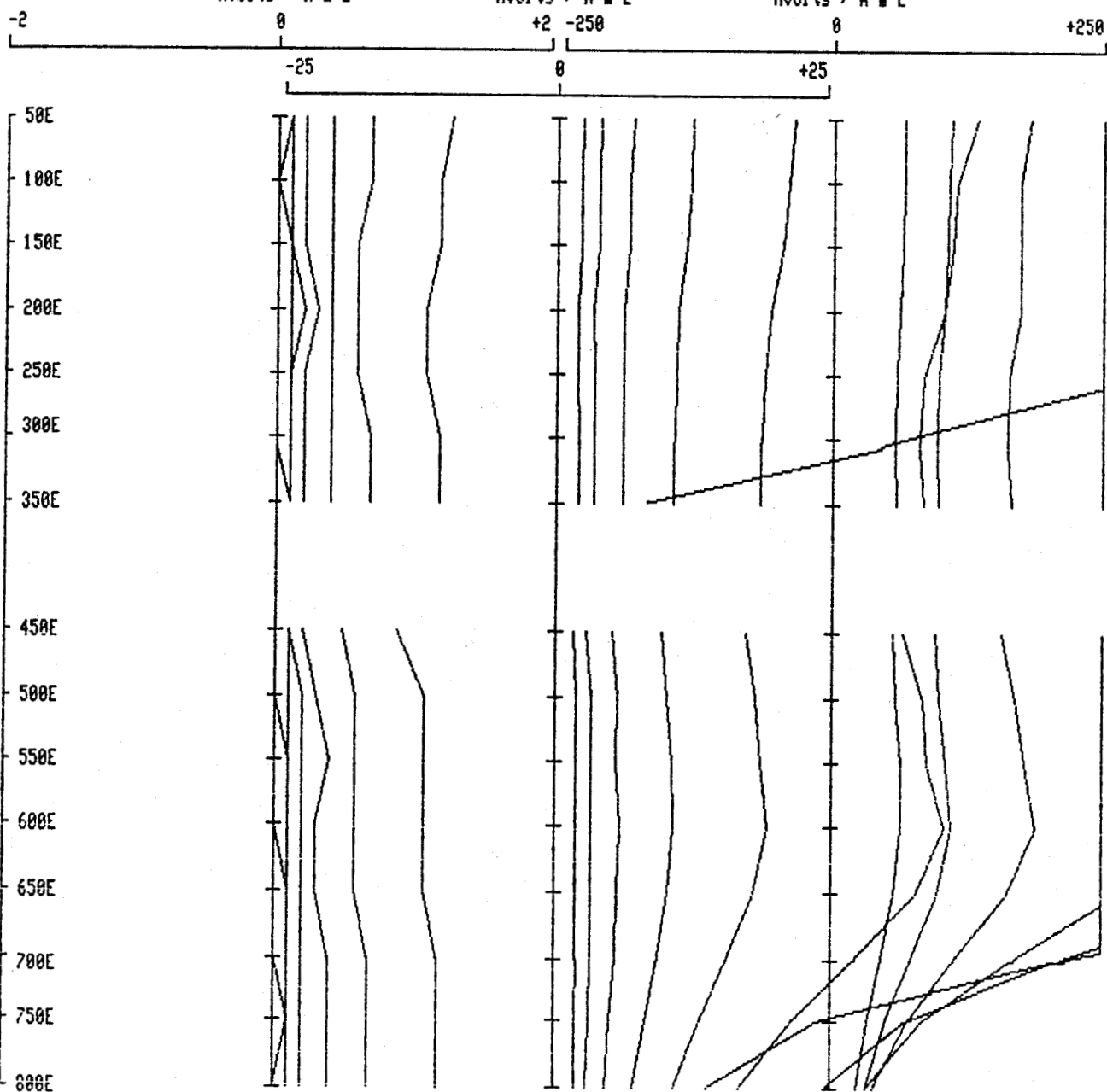
Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; 0E-400E
Line:	L1100N	Turn-off:	200 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	15/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: 1n
channels 13 to 28
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



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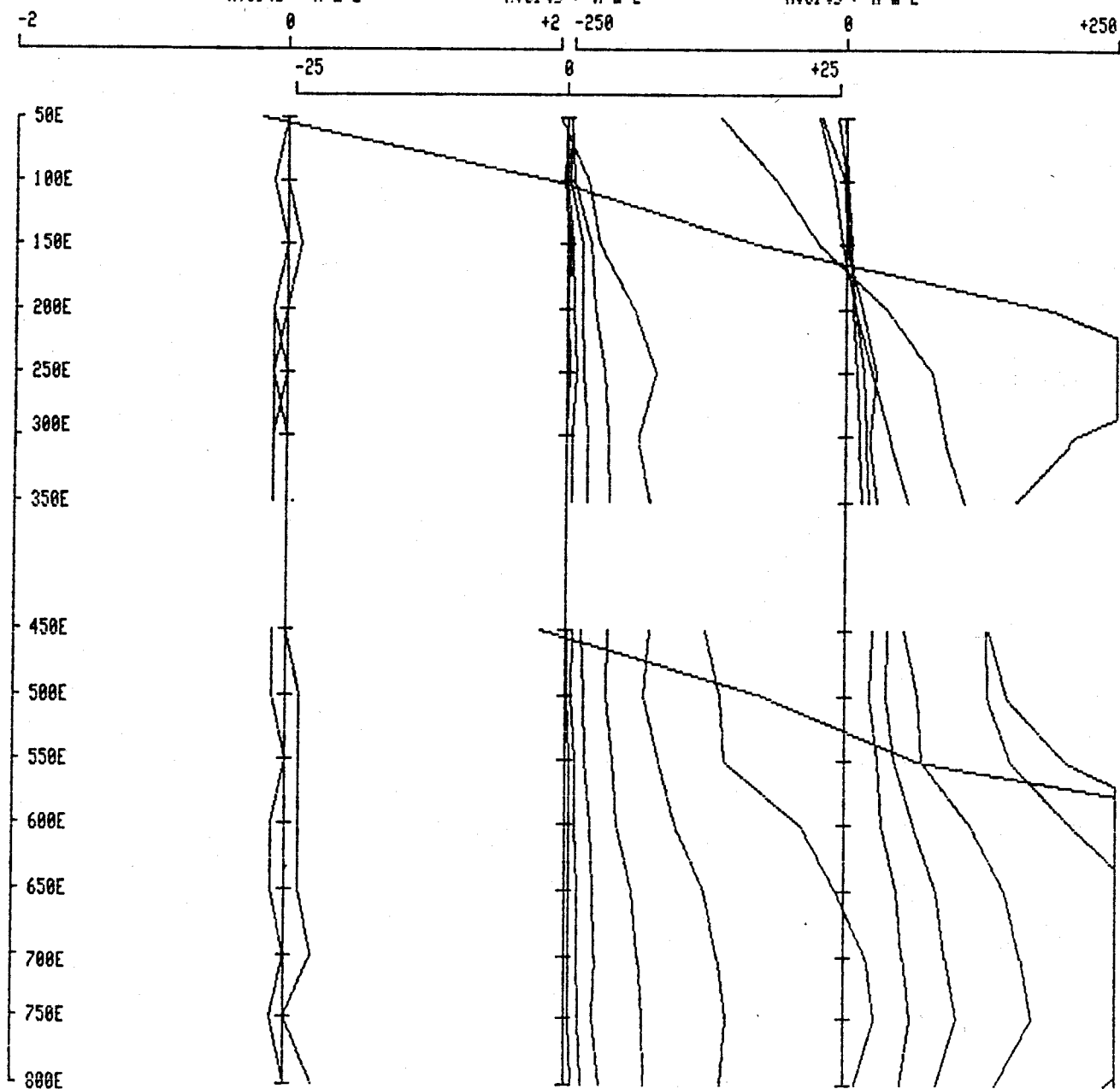
Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; 0E-400E
Line:	L1100N	Turn-off:	200 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	15/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



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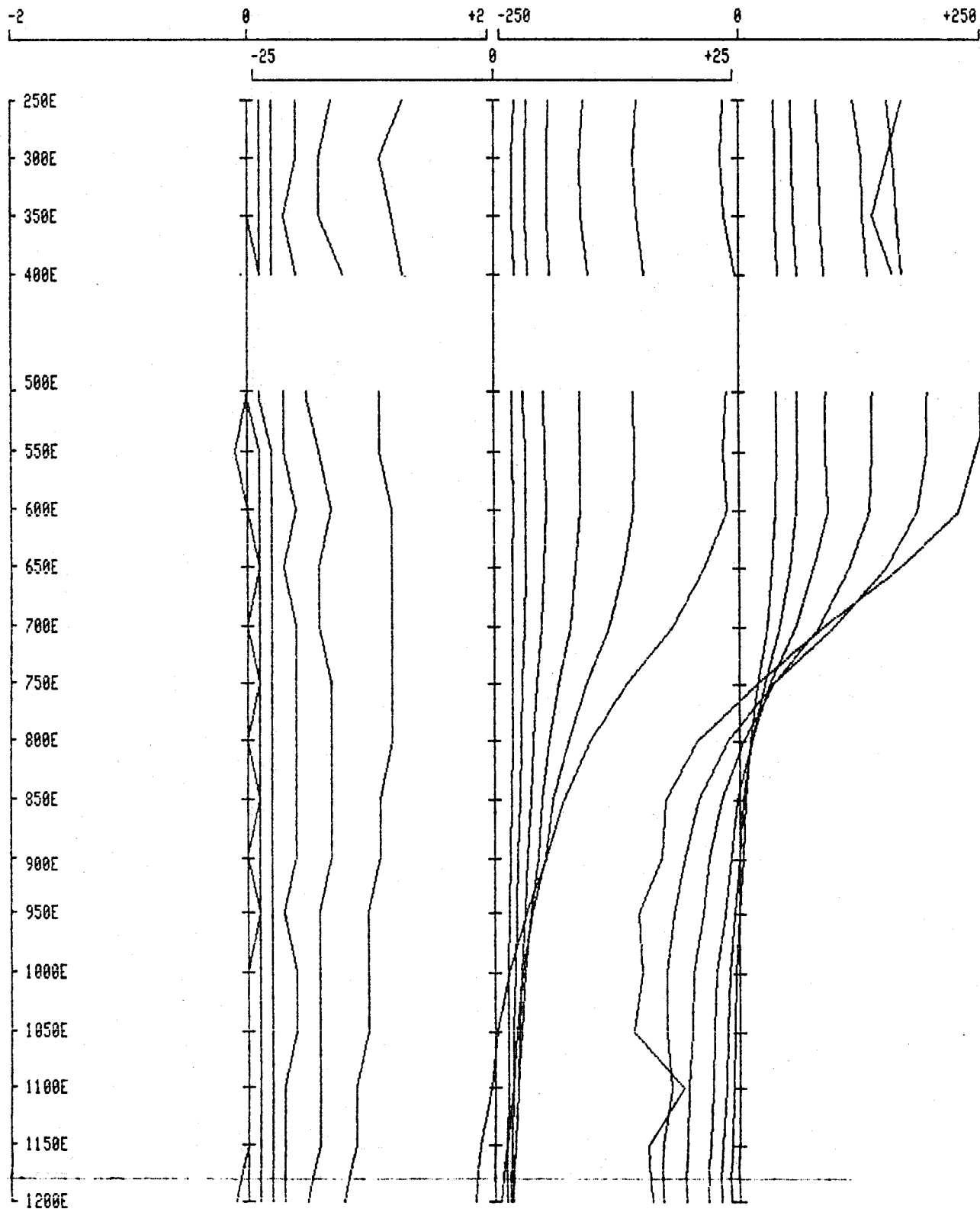
Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; 0E-400E
Line:	L1200N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	14/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²

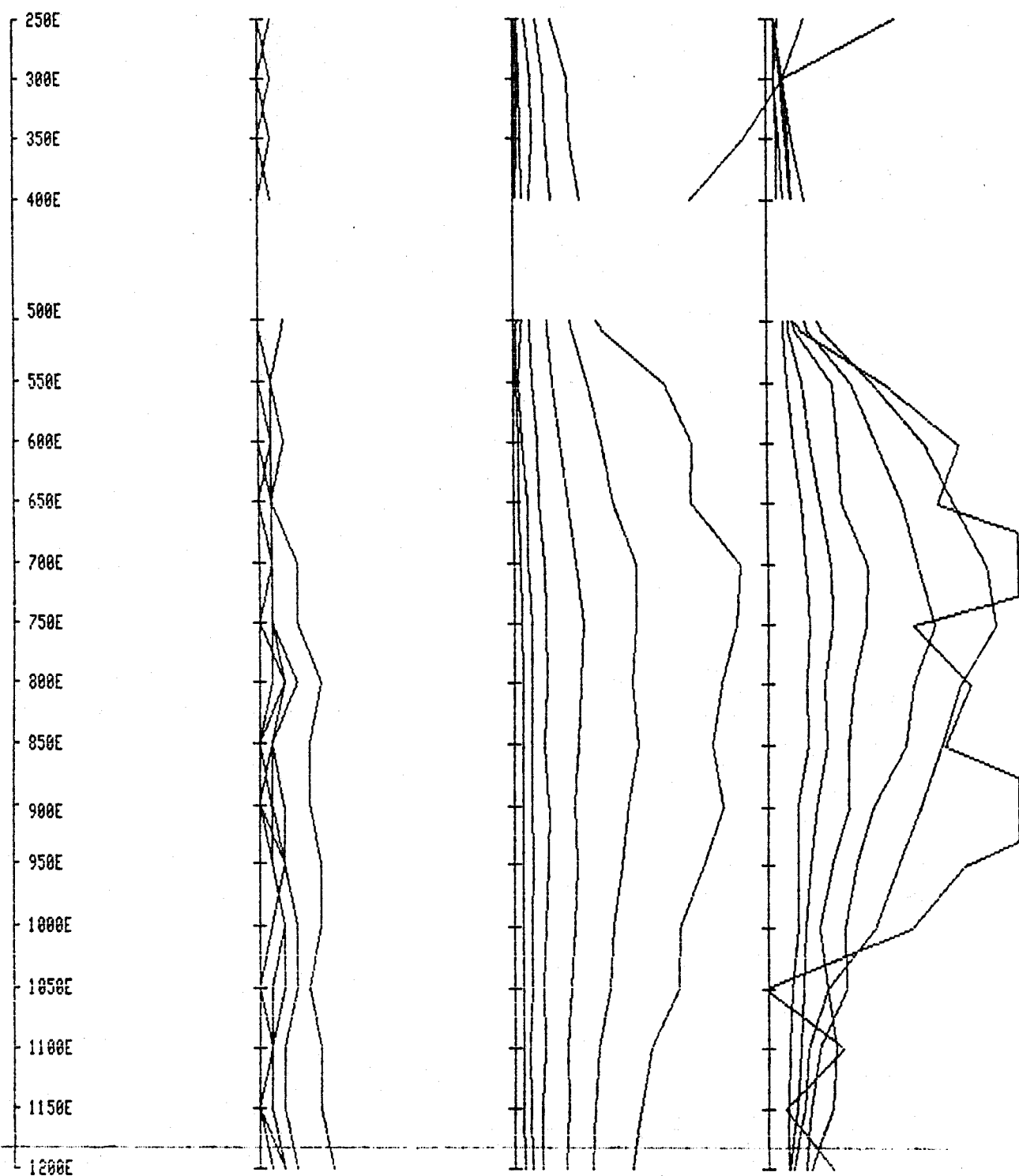


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TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; OE-400E
Line:	L1200N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	14/07/87	Gain:	6

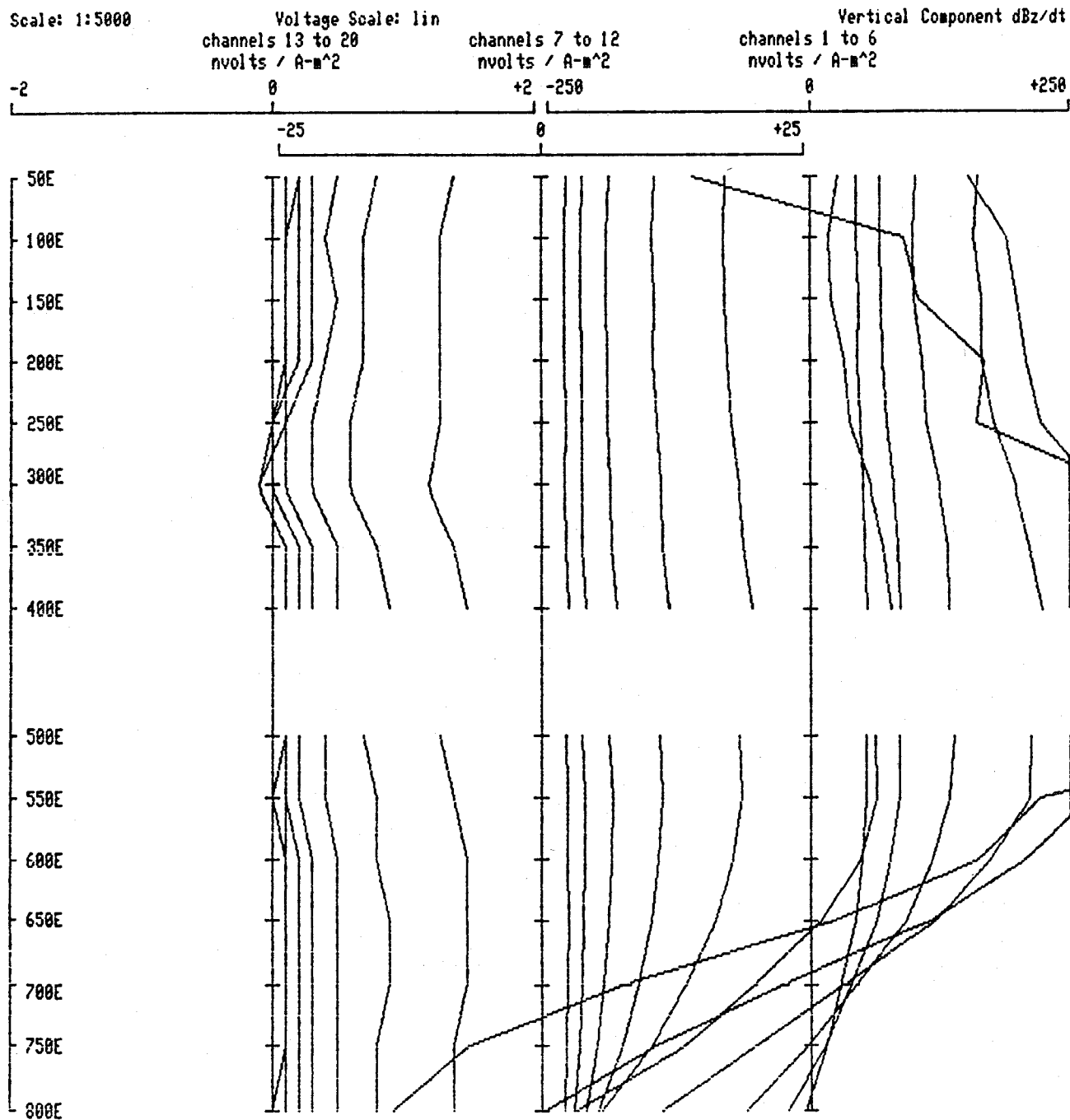
Scale: 1:5000	Voltage Scale: lin	In-line Horizontal Component dBx/dt
	channels 13 to 20	channels 7 to 12
	nvolts / A-m ²	nvolts / A-m ²
-2	0	+2 -250
	-25	0
		+25
		+250



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Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; 0E-400E
Line:	L1300N	Turn-off:	200 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	15/07/87	Gain:	6



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TRANSIENT EM by QUANTECH CONSULTING INC.

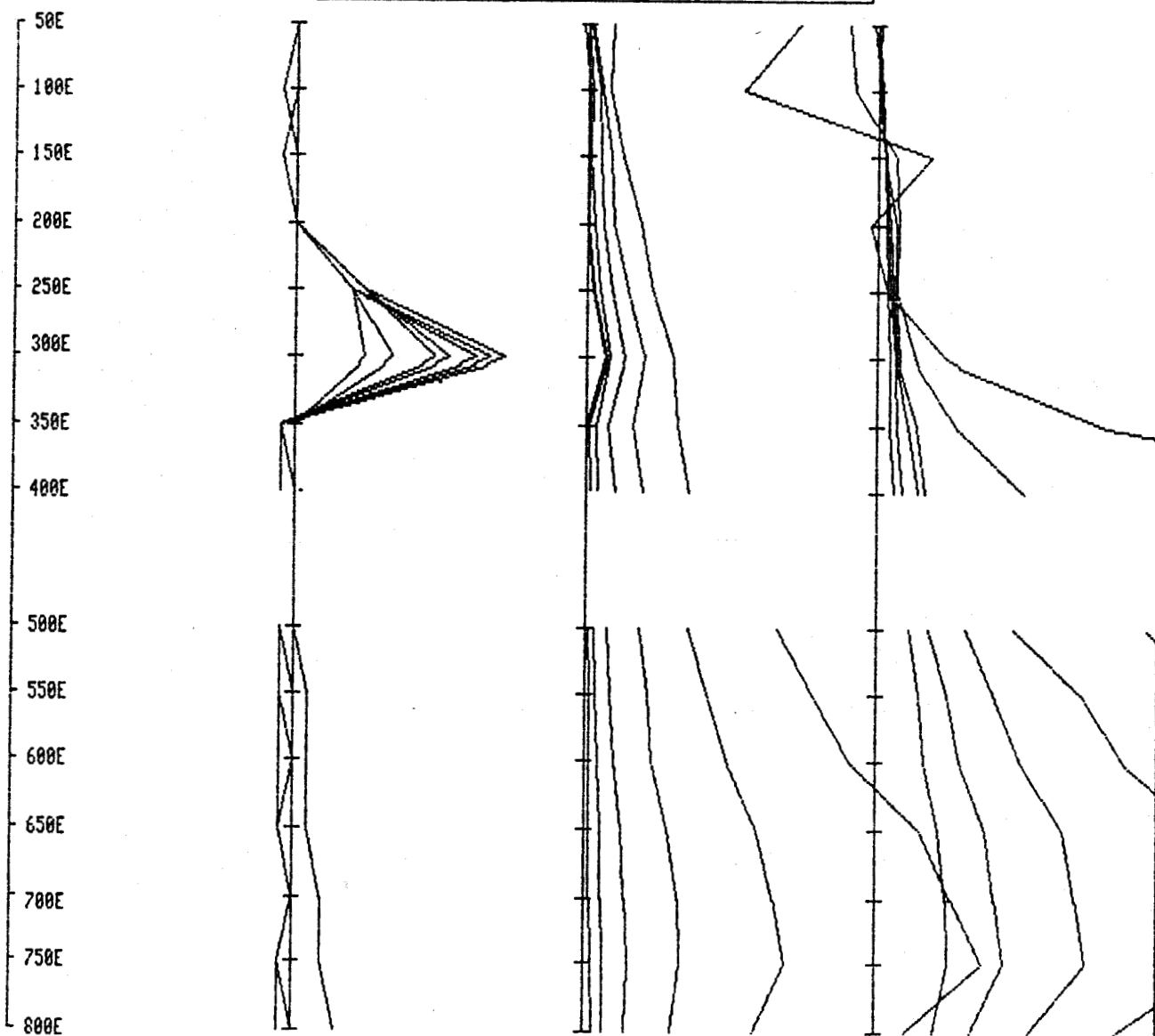
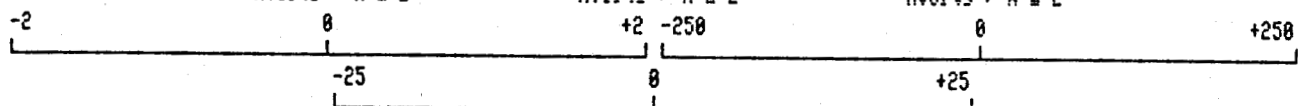
Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; 0E-400E
Line:	L1300N	Turn-off:	200 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	15/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

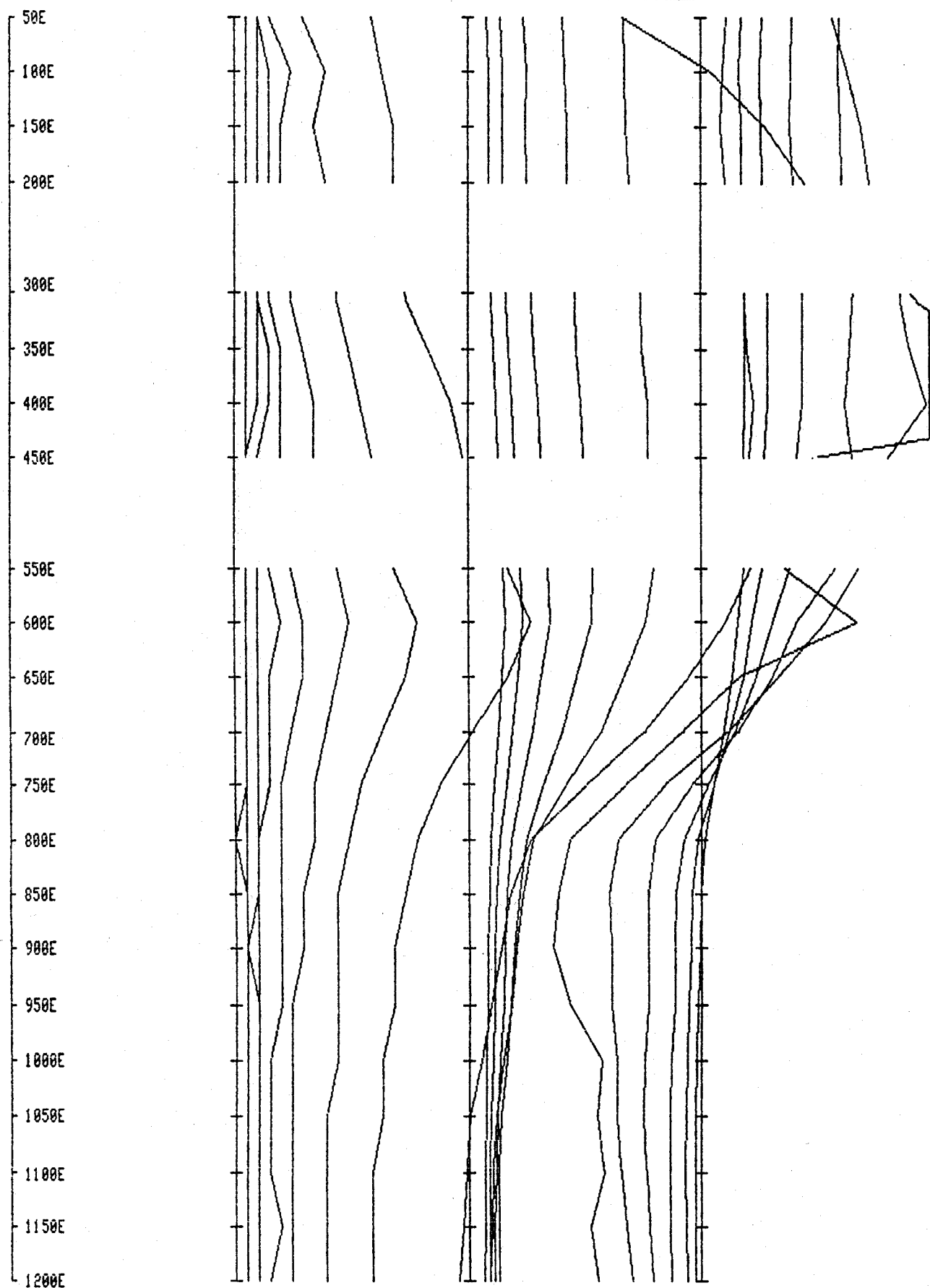
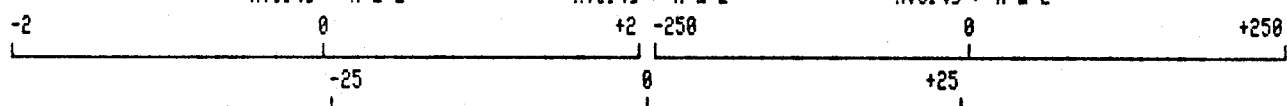
Project:	YAHK	Tx Loop:	2
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	700N-1500N; OE-400E
Line:	L1400N	Turn-off:	200 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	15/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



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TRANSIENT EM by QUANTECH CONSULTING INC.

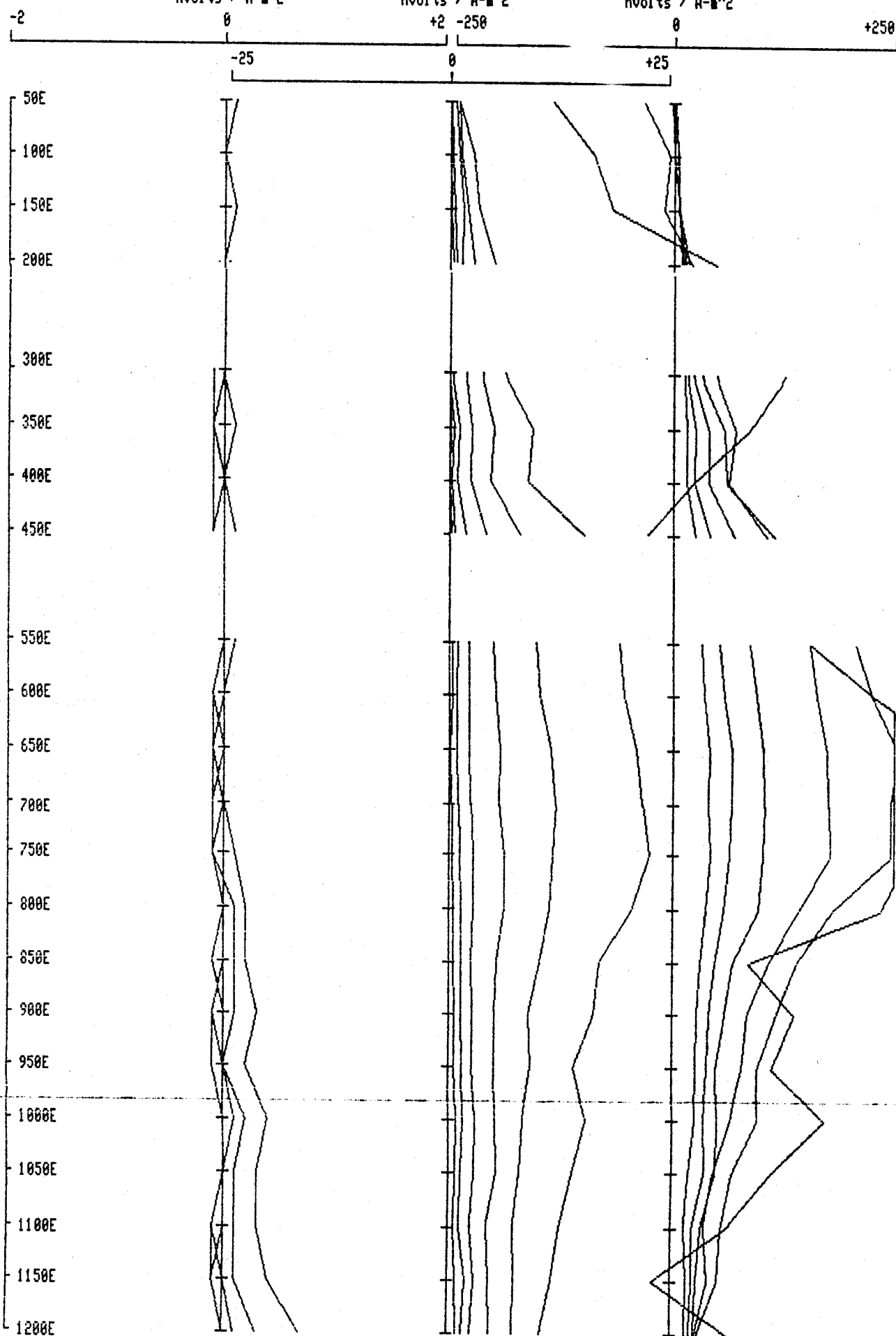
Project:	YAHK	Tx Loop:	2
Grid:	60AT	Current:	8 Amps
System:	Geonics EM-37	Position:	700N-1500N; 0E-400E
Line:	L1400N	Turn-off:	200 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	15/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

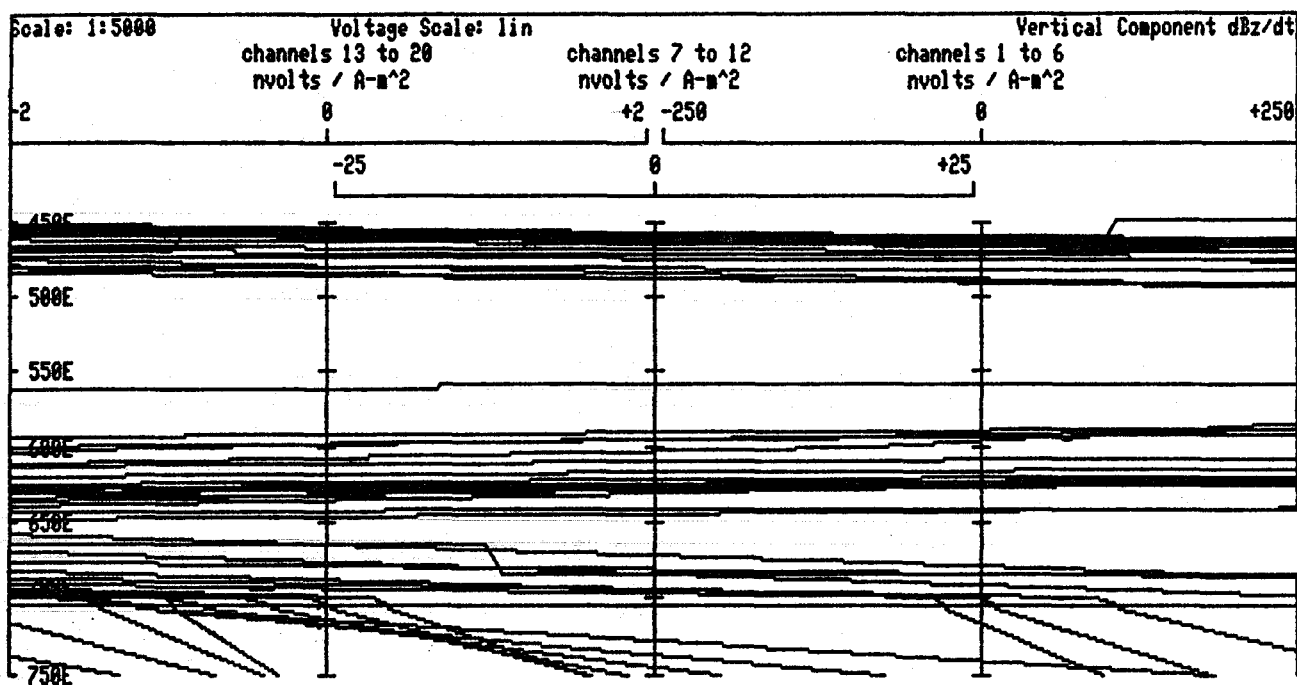
In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



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TRANSIENT EM by QUANTECH CONSULTING INC.

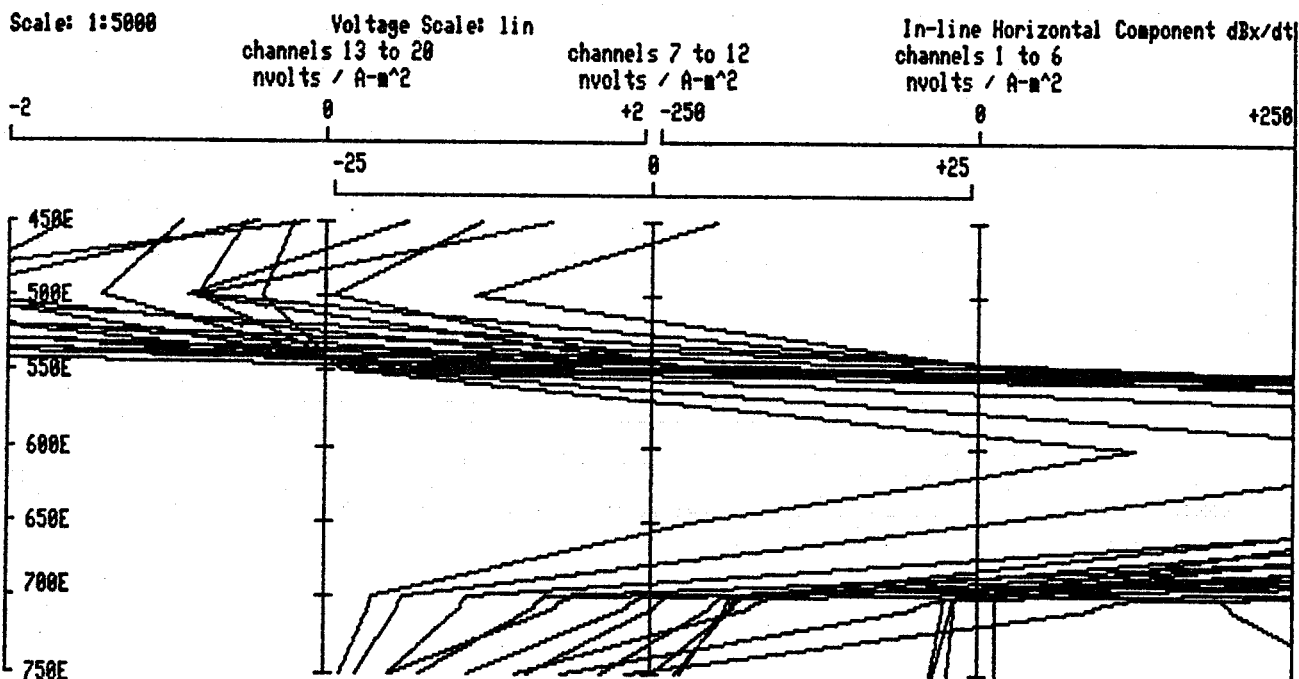
Project:	YAHK	Tx Loop:	3
Grid:	GOAT	Current:	7.3 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L1500N	Turn-off:	182 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	30/07/87	Gain:	6



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TRANSIENT EM by QUANTECH CONSULTING INC.

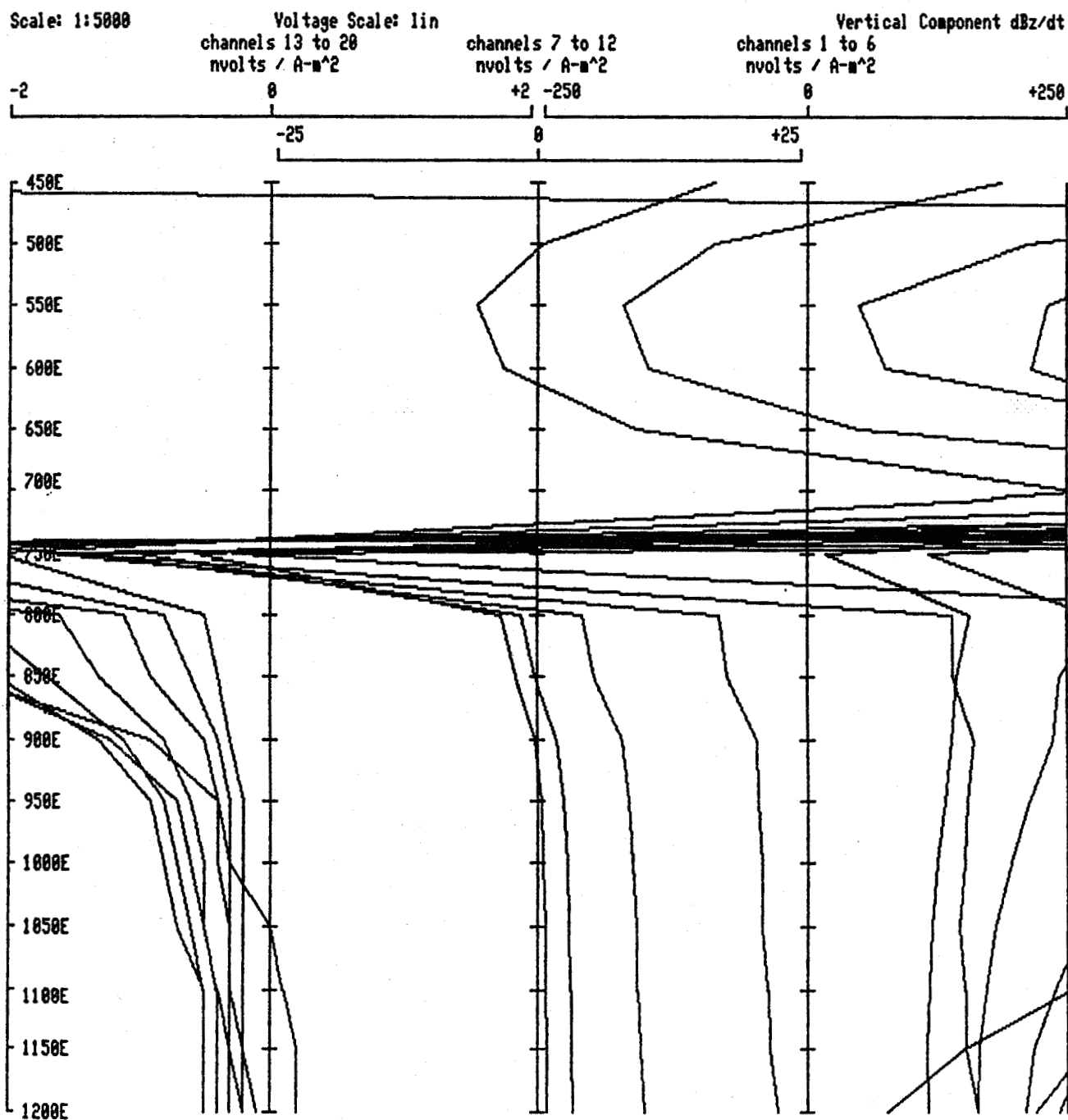
Project:	YAHK	Tx Loop:	3
Grid:	GOAT	Current:	7.5 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L1500N	Turn-off:	170 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	30/07/87	Gain:	6



OREQUEST_CONSULTANTS_LTD

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Project:	YAHK	Tx Loop:	3
Grid:	BOAT	Current:	7.3 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L1600N	Turn-off:	182 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	30/07/87	Gain:	6



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

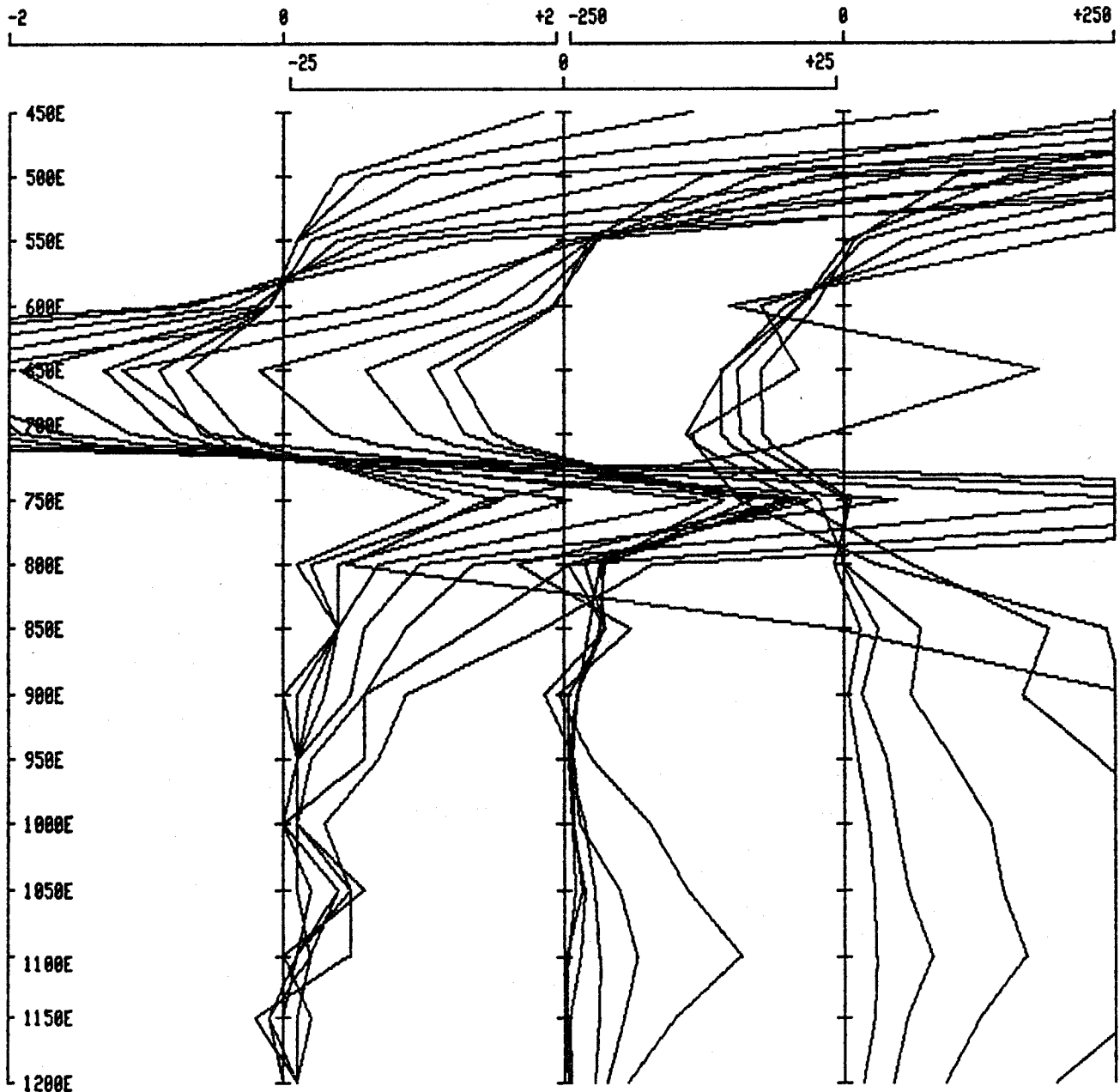
Project:	YAHK	Tx Loop:	3
Grid:	80AT	Current:	7.3 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L1600N	Turn-off:	182 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	30/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

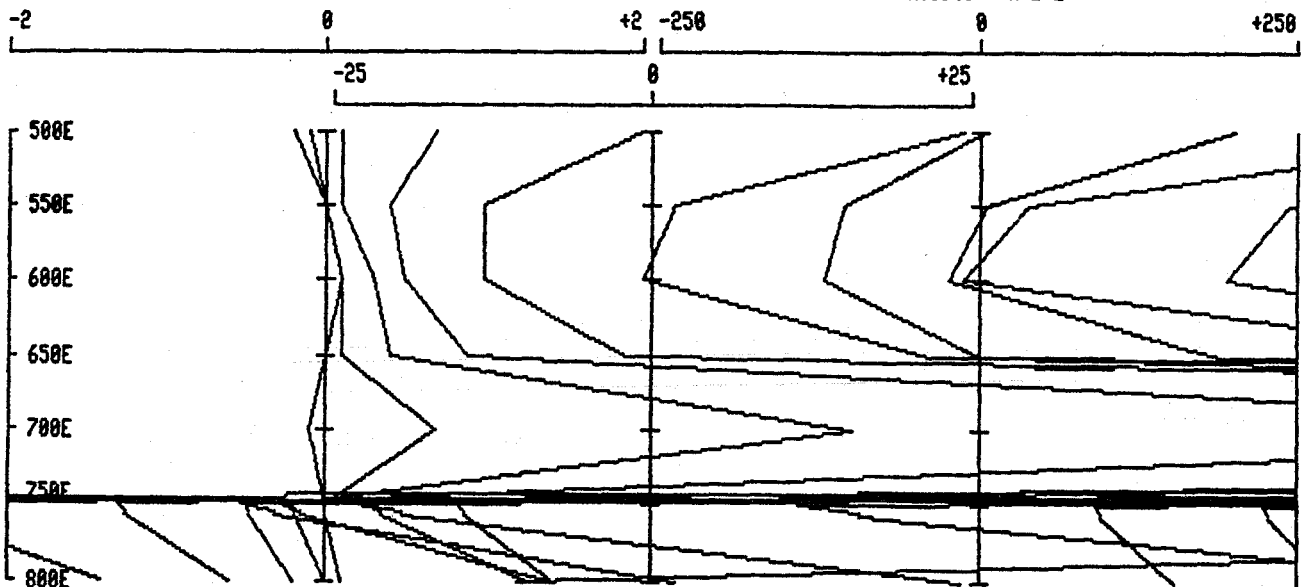
Project:	YAHK	Tx Loop:	3
Grid:	BOAT	Current:	7.6 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L1700N	Turn-off:	195 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	31/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

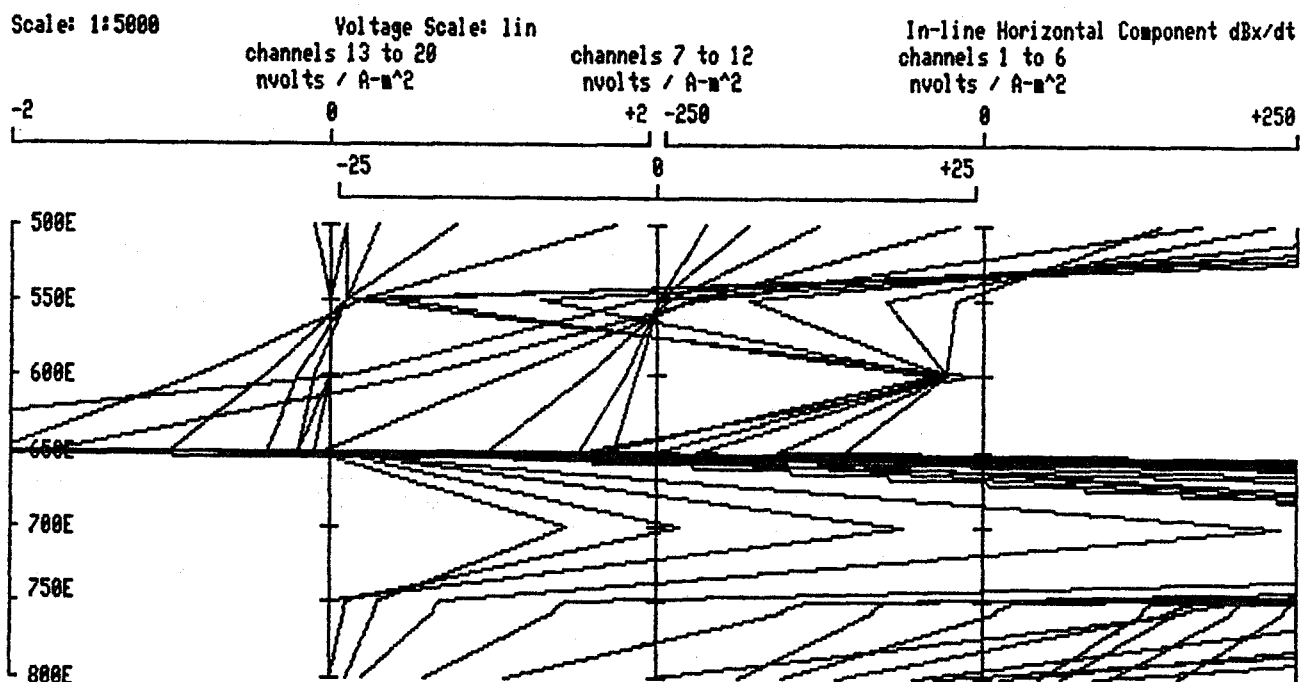
Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

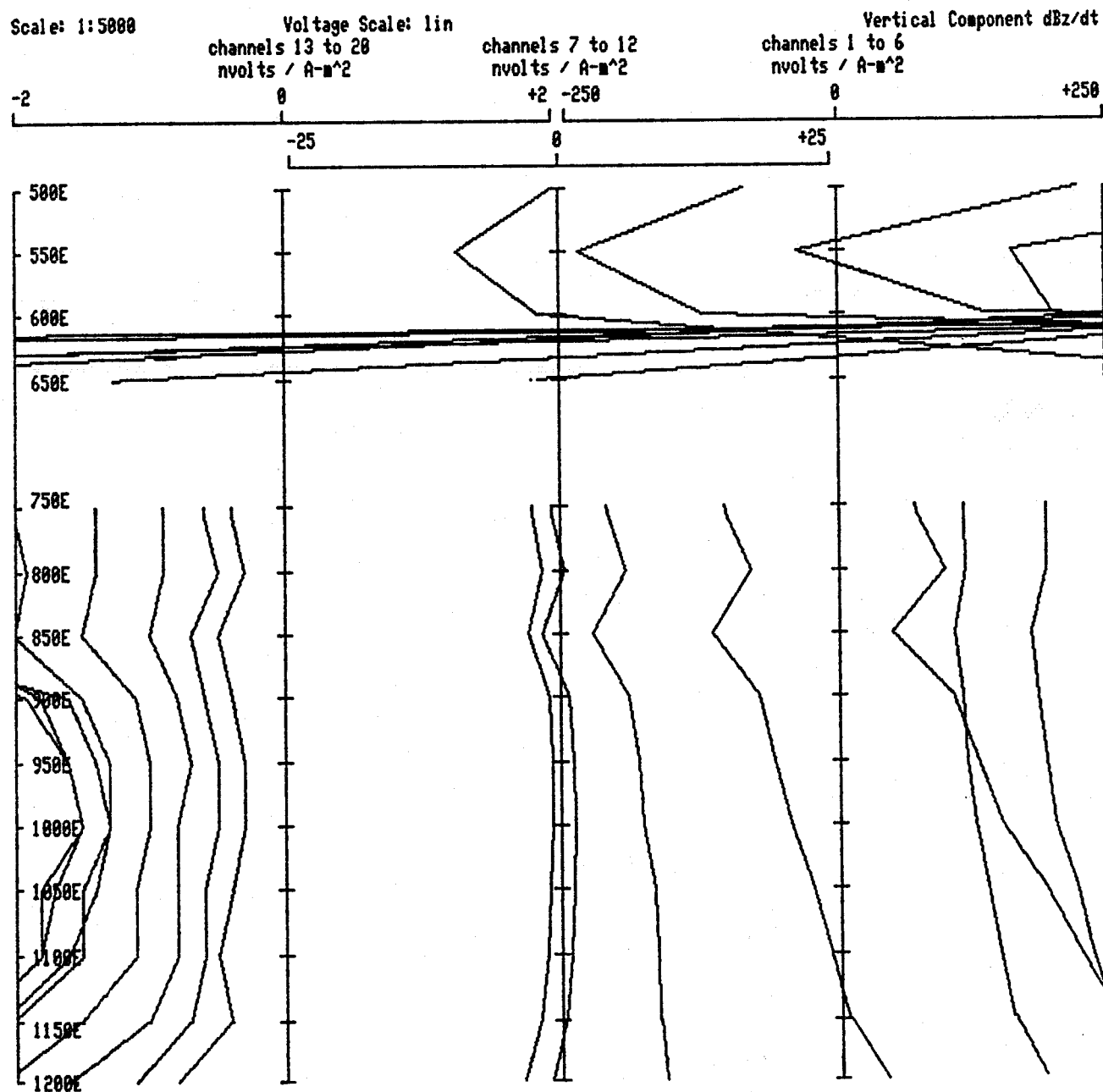
Project:	YAHK	Tx Loop:	3
Grid:	60AT	Current:	7.6 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L1700N	Turn-off:	195 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	31/07/87	Gain:	6



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

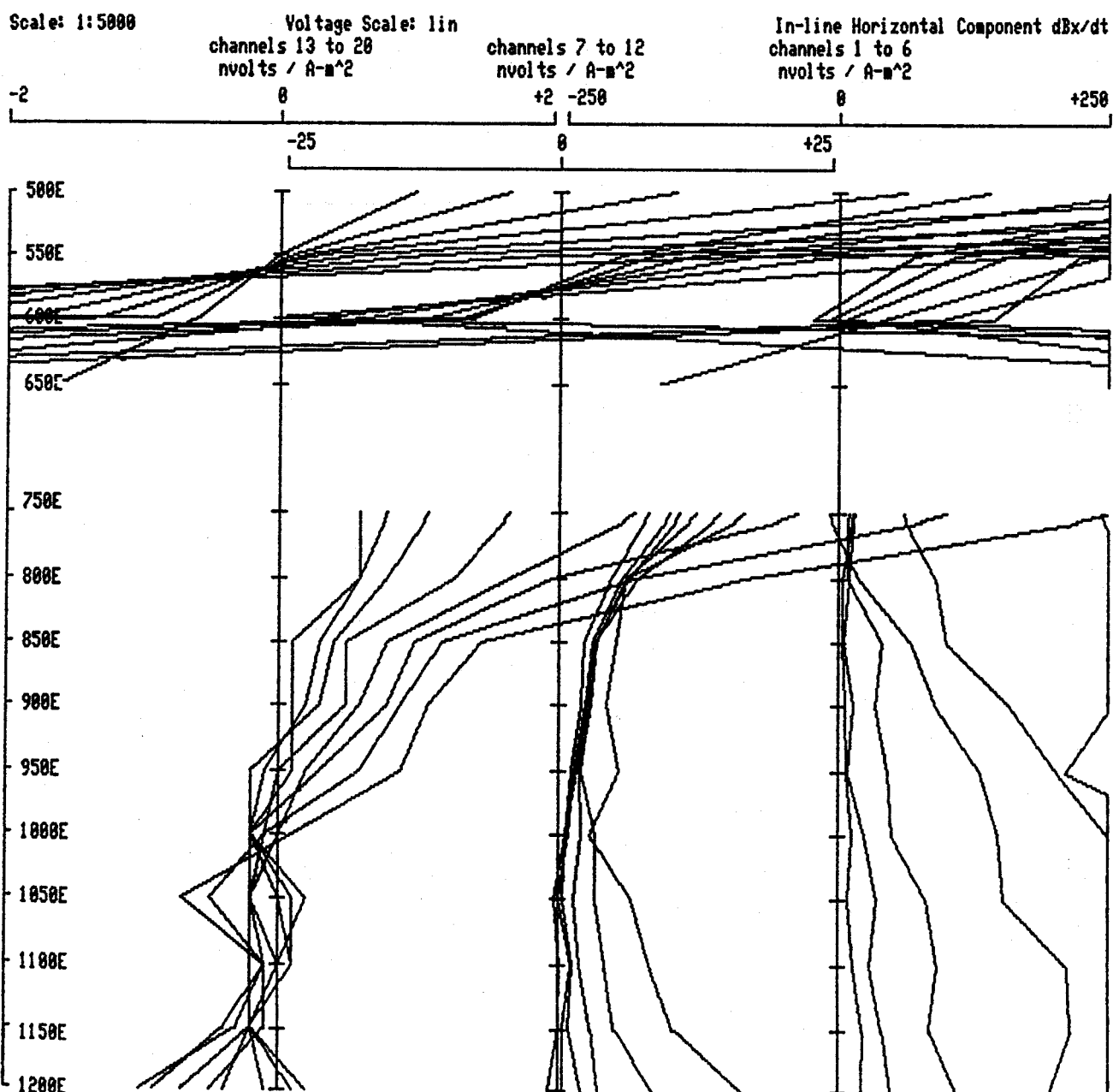
Project:	YAHK	Tx Loop:	3
Grid:	BOAT	Current:	7.3 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L1800N	Turn-off:	182 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	30/07/87	Gain:	6



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	3
Grid:	GOAT	Current:	7.3 Amps
System:	Geonics EM-37	Position:	1400N-2200N; 400E-800E
Line:	L1800N	Turn-off:	182 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	30/07/87	Gain:	6



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

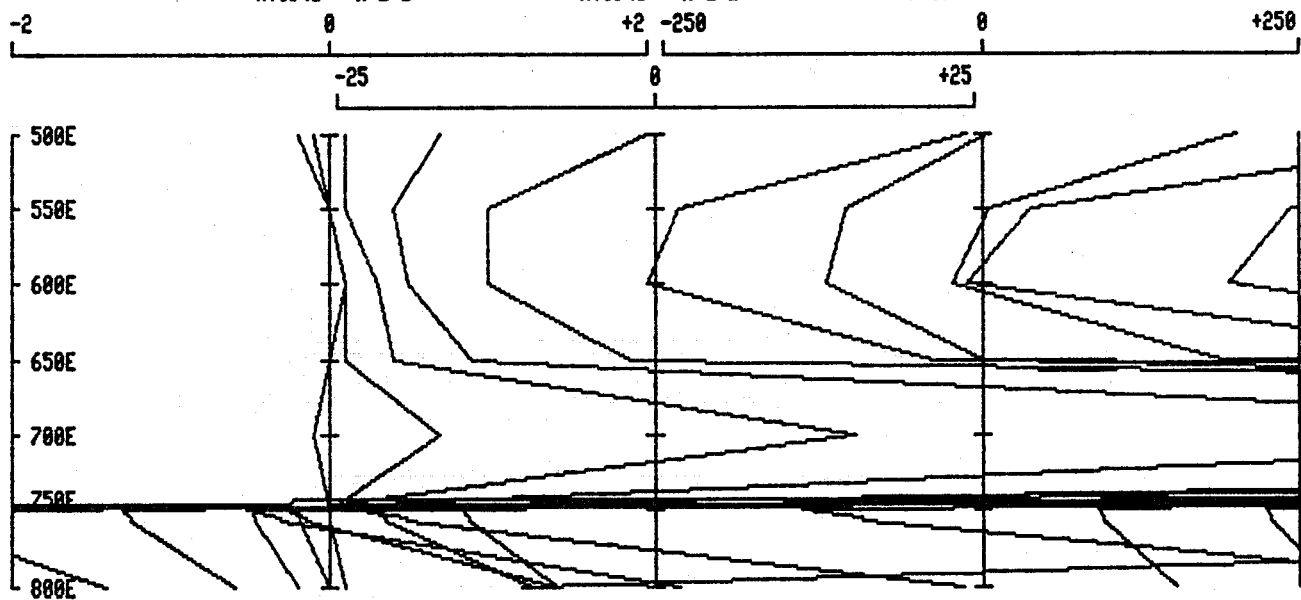
Project:	YAHK	Tx Loop:	3
Grid:	GOAT	Current:	7.6 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L1900N	Turn-off:	195 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	31/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

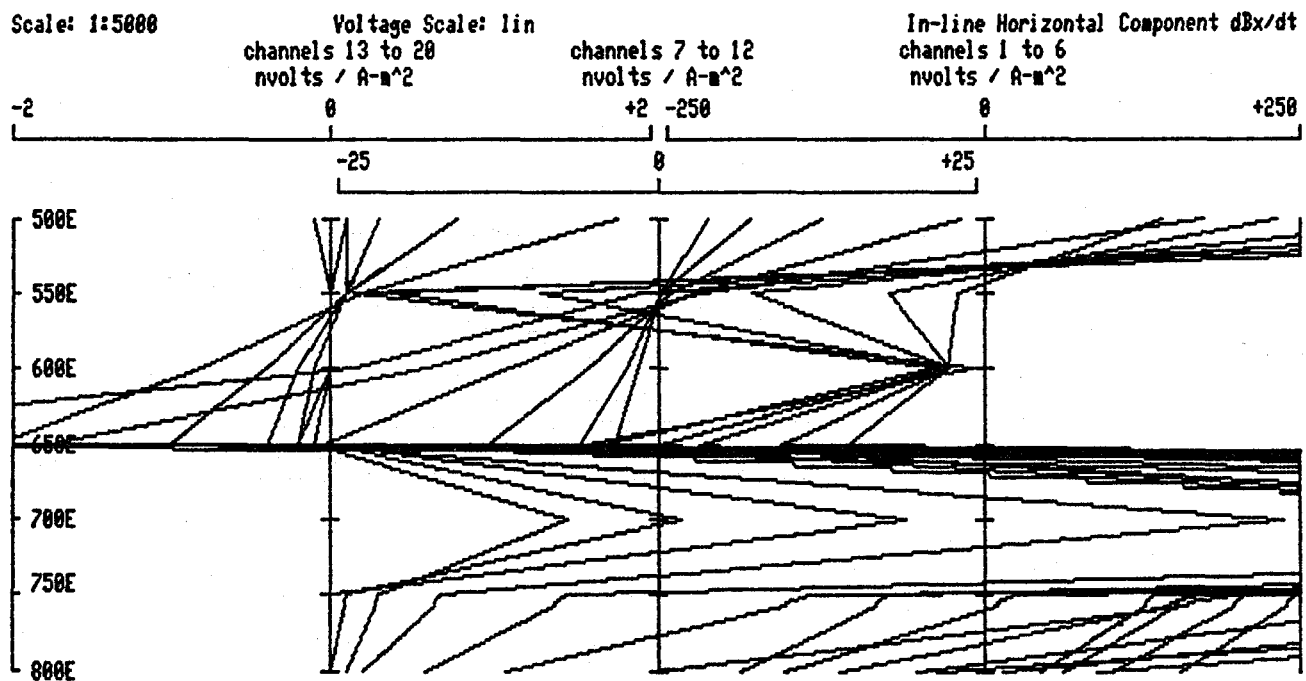
Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

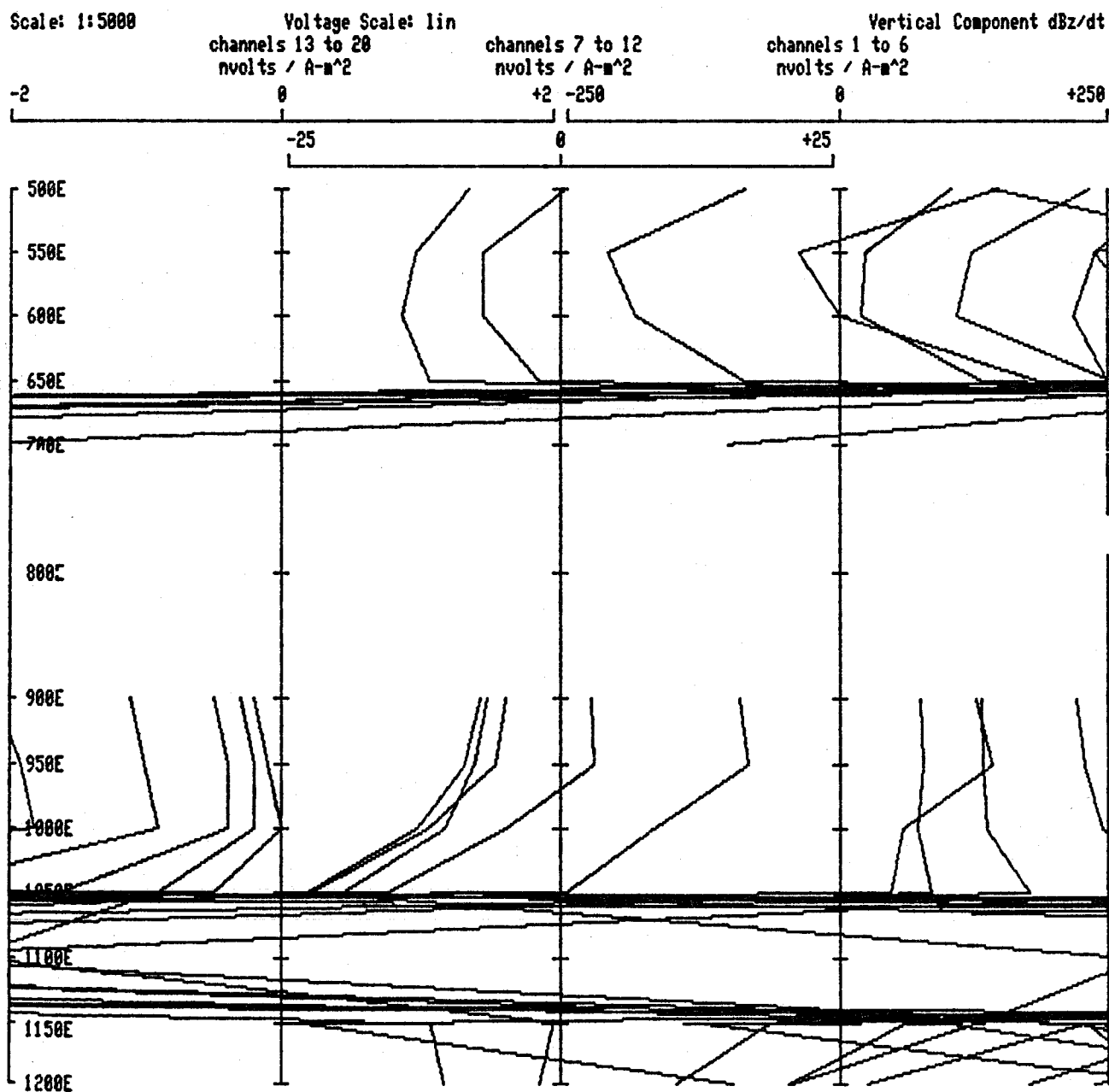
Project:	YAHK	Tx Loop:	3
Grid:	GOAT	Current:	7.6 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L1900N	Turn-off:	195 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	31/07/87	Gain:	6



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

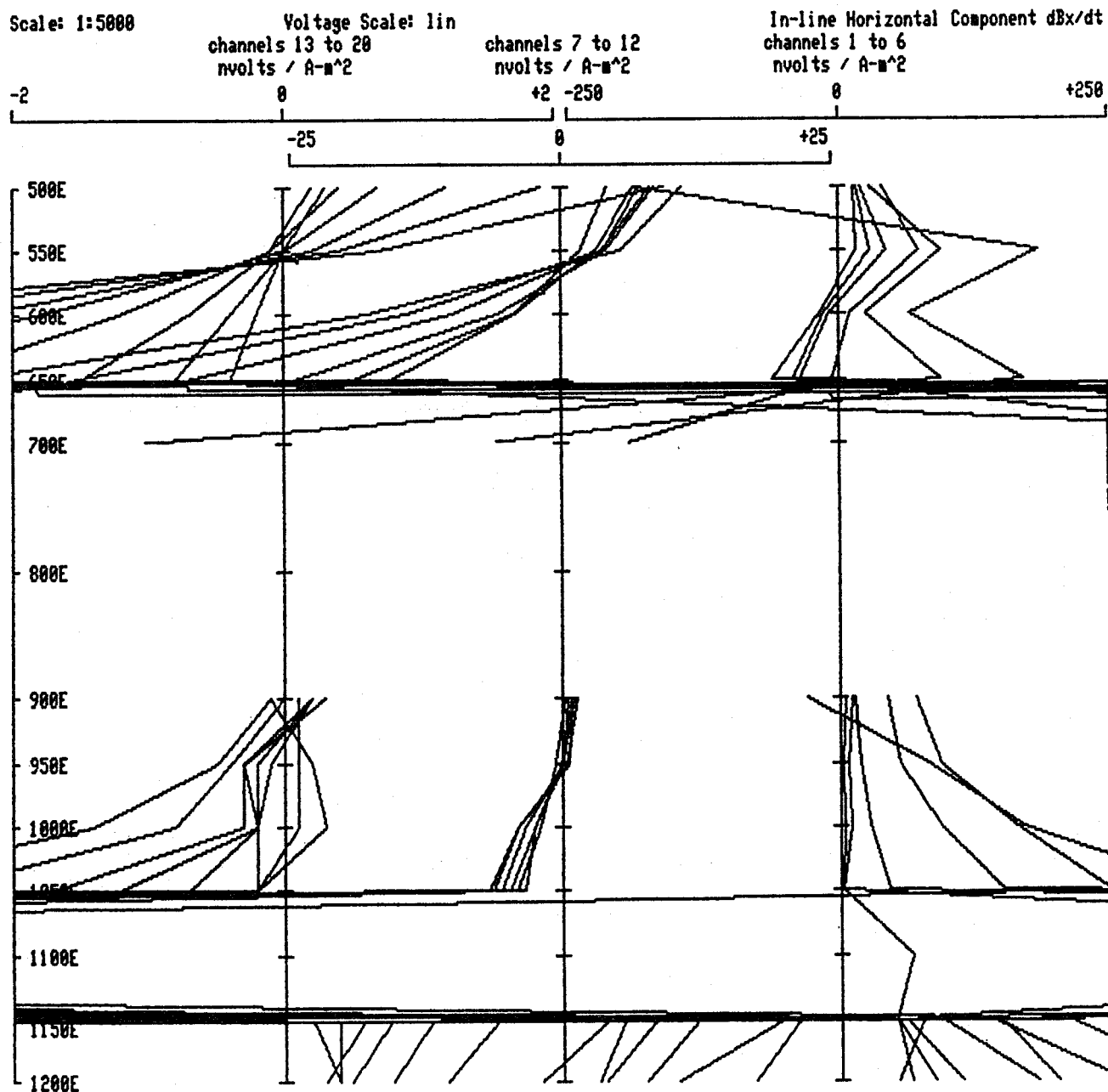
Project:	YAHK	Tx Loop:	3
Grid:	60AT	Current:	7.3 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L2000N	Turn-off:	182 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	30/07/87	Gain:	6



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	3
Grid:	GOAT	Current:	7.3 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L2000N	Turn-off:	182 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	30/07/87	Gain:	6



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

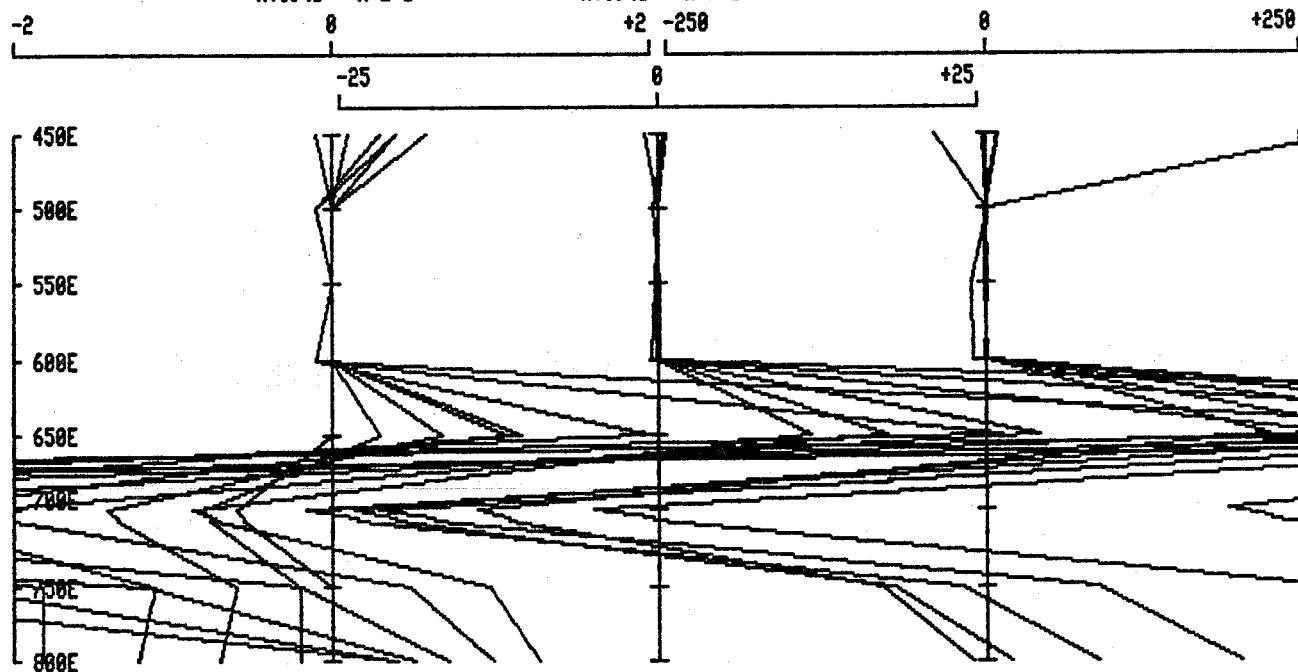
Project:	YAHK	Tx Loop:	3
Grid:	GOAT	Current:	7.3 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L2100N	Turn-off:	182 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	30/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

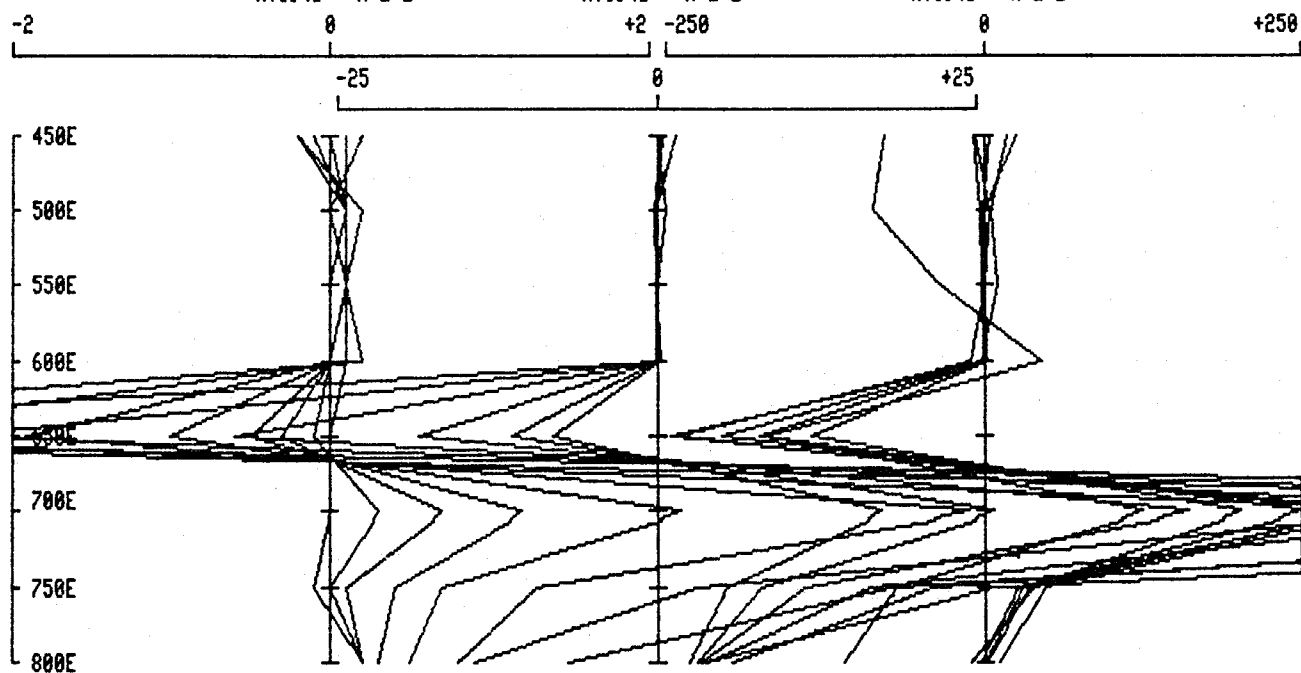
Project:	YAHK	Tx Loop:	3
Grid:	GOAT	Current:	7.3 Amps
System:	Geonics_EM-37	Position:	1400N-2200N; 400E-800E
Line:	L2100N	Turn-off:	182 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	30/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 28
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	4
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; OE-400E
Line:	L2200N	Turn-off:	213 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	19/07/87	Gain:	6

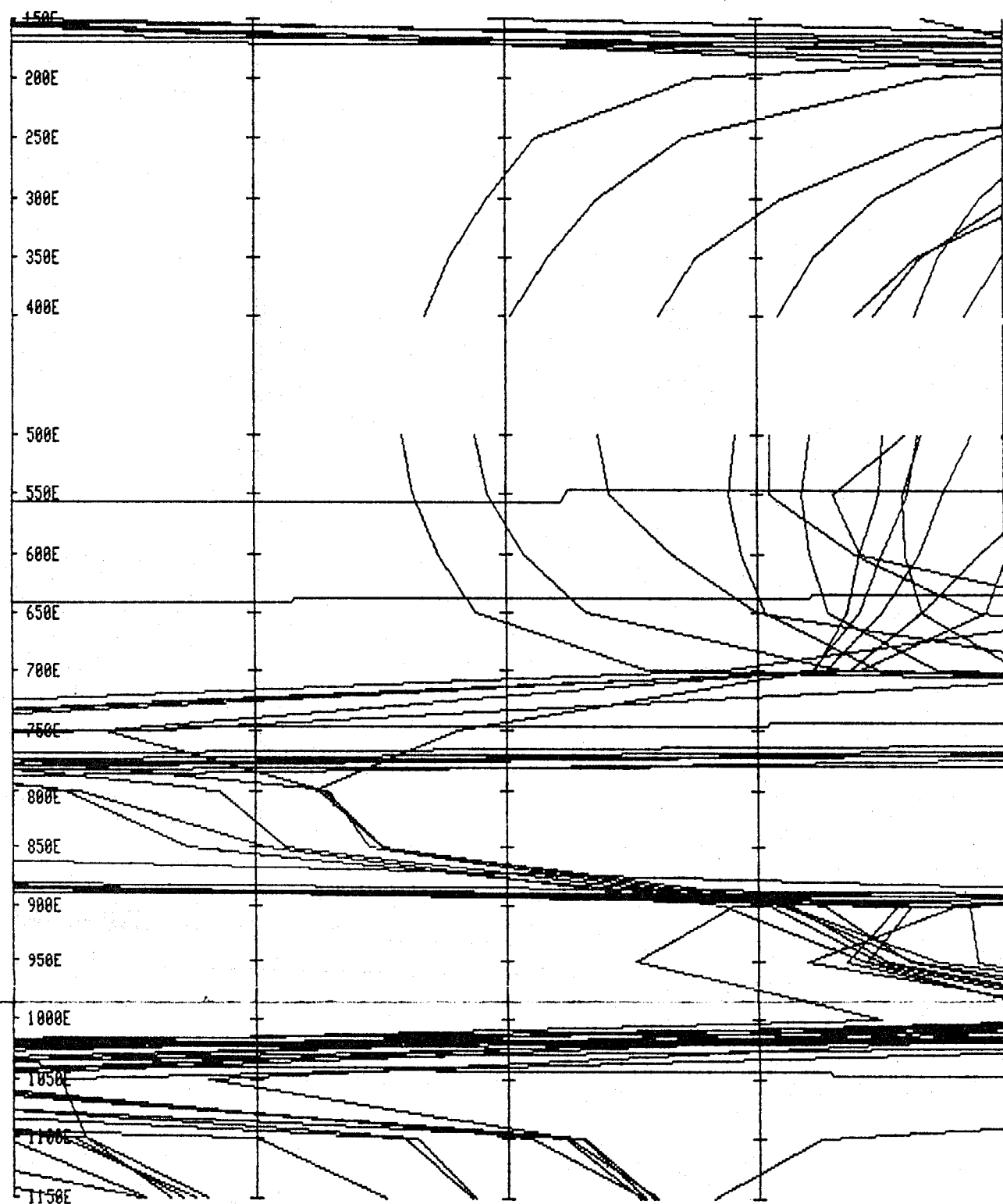
Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²

-2	0	+2 -250	0	+250
	-25	0	+25	



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	4
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; 0E-400E
Line:	L2200N	Turn-off:	213 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	19/07/87	Gain:	6

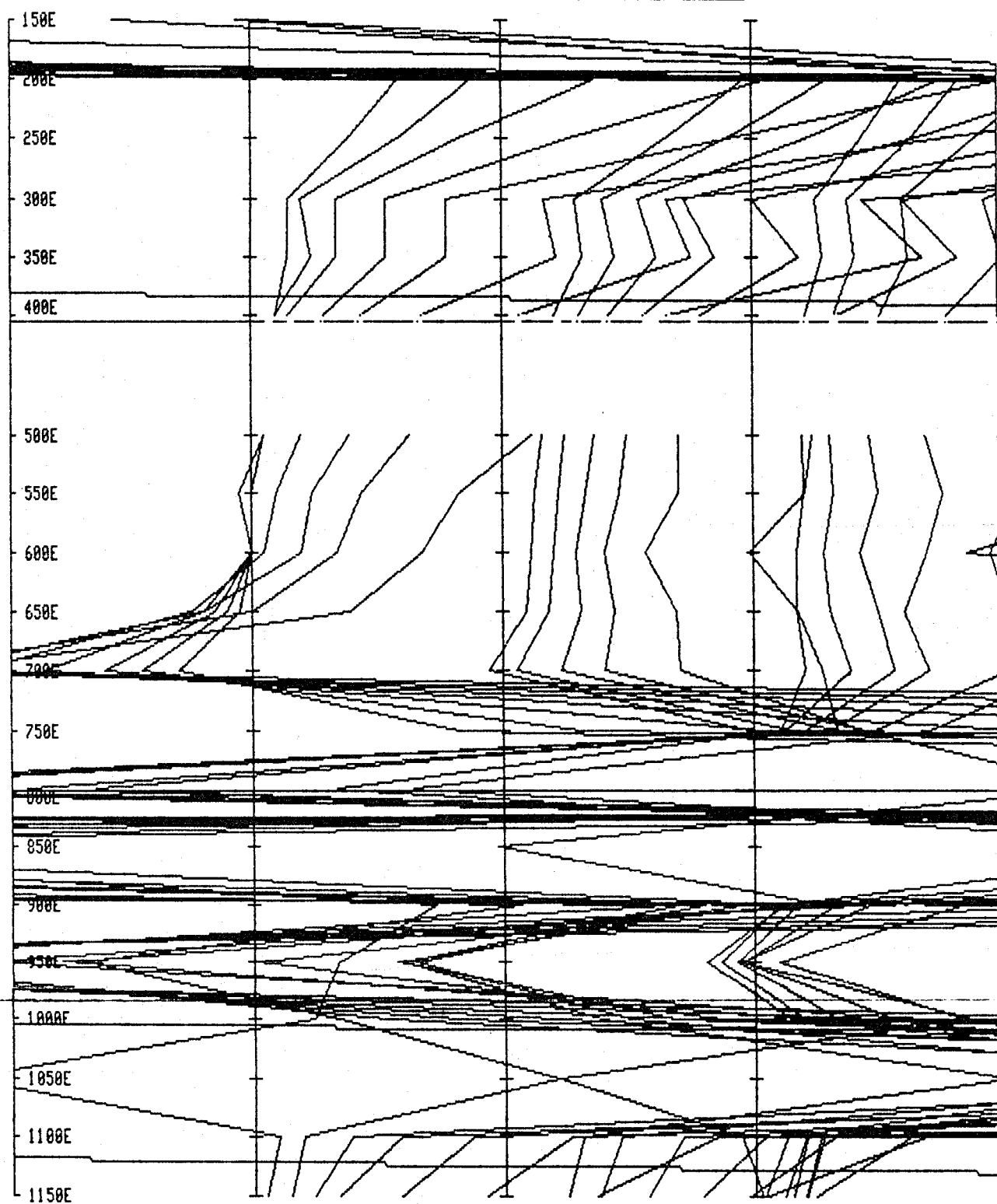
Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²

-2	0	+2 -250	0	+250
	-25	0	+25	



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

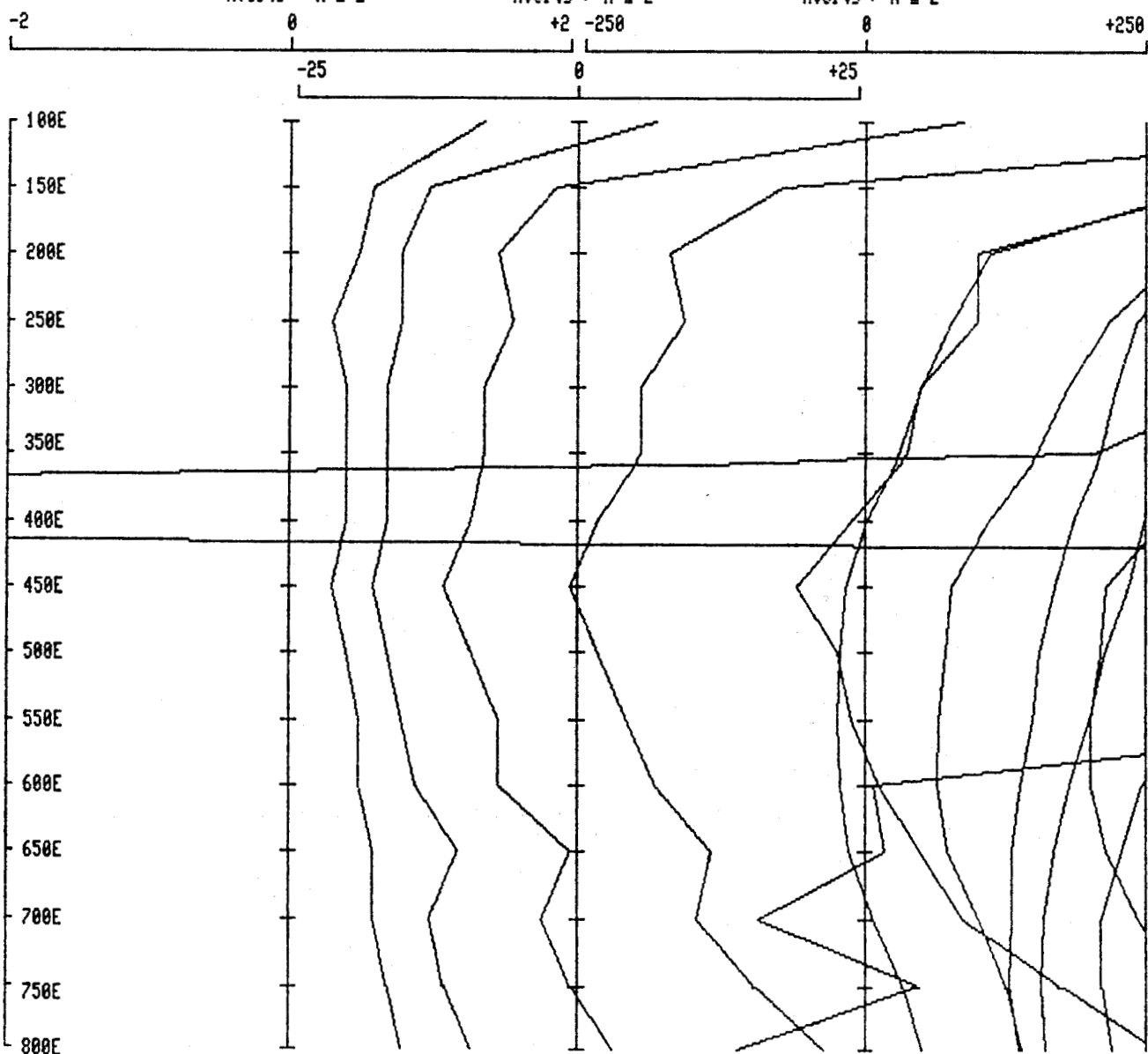
Project:	YAHK	Tx Loop:	4
Grid:	60AT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; 0E-400E
Line:	L2300N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	20/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

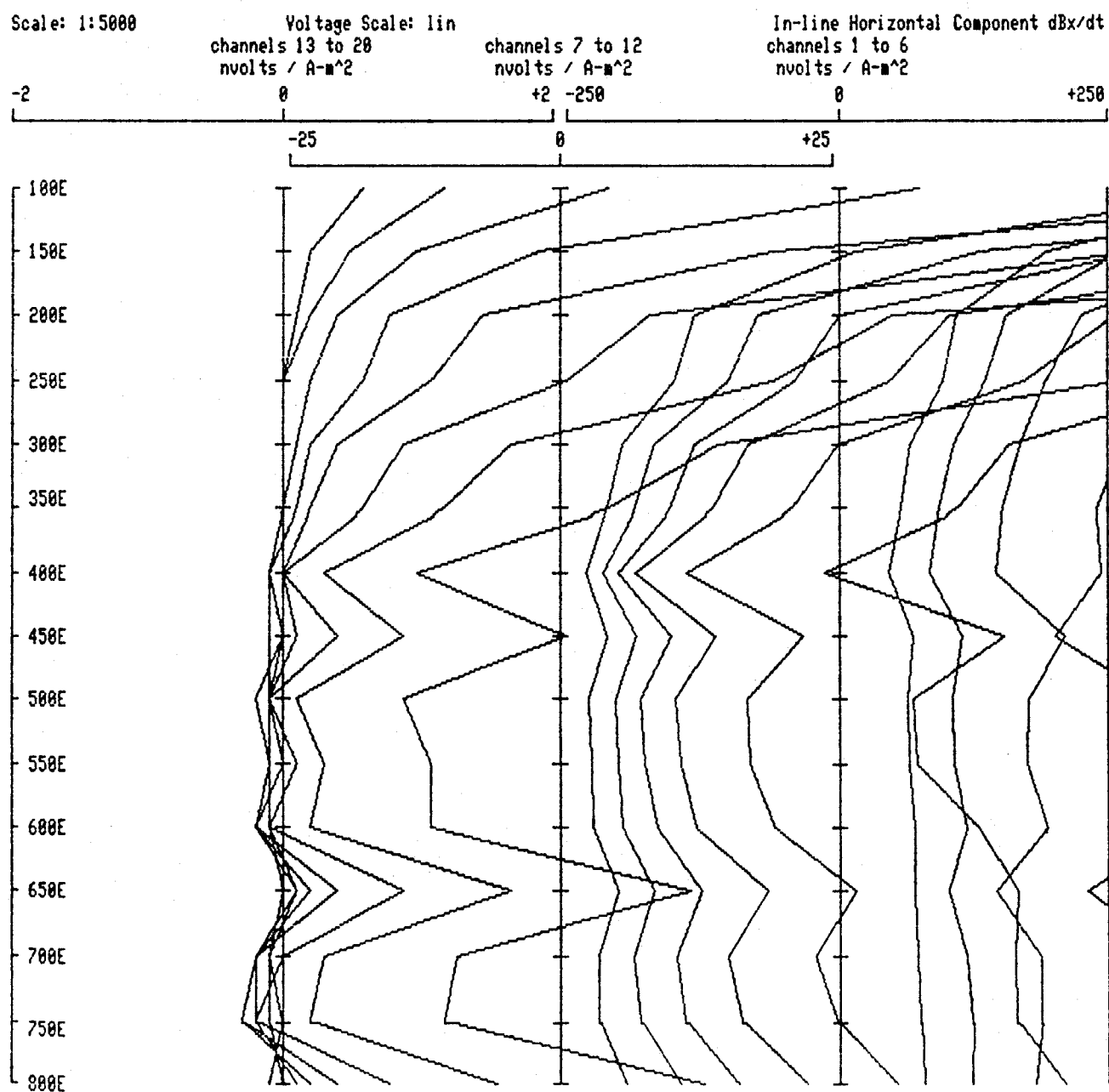
Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	4
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics EM-37	Position:	2100N-2900N; 0E-400E
Line:	L2300N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	20/07/87	Gain:	6



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

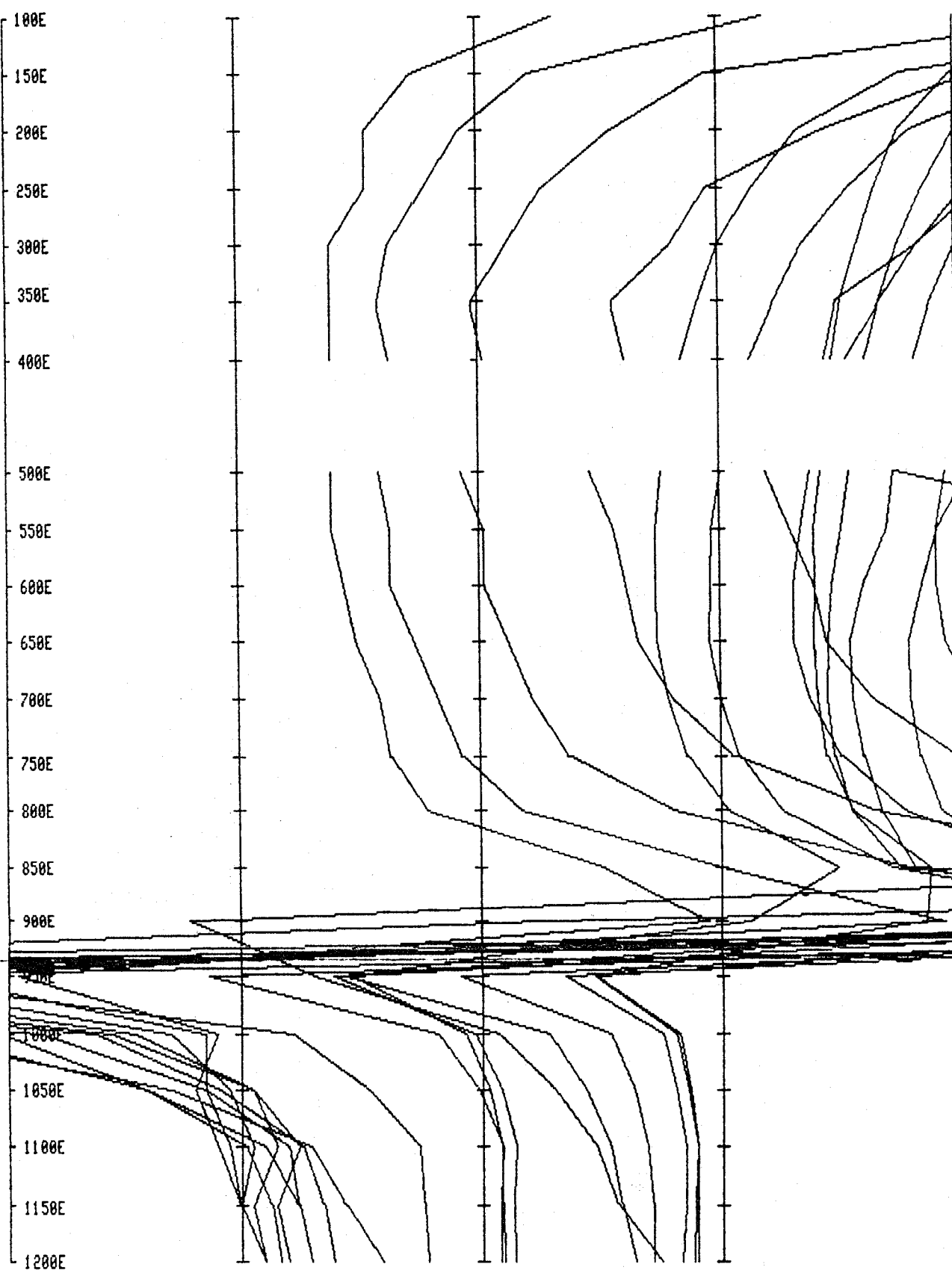
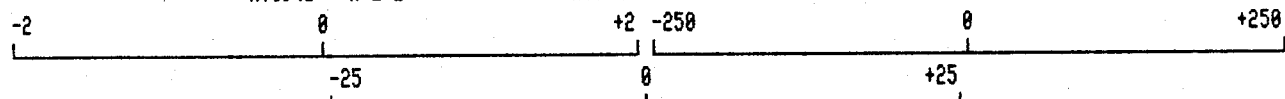
Project:	YAHK	Tx Loop:	4
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; 0E-400E
Line:	L2400N	Turn-off:	213 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	19/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

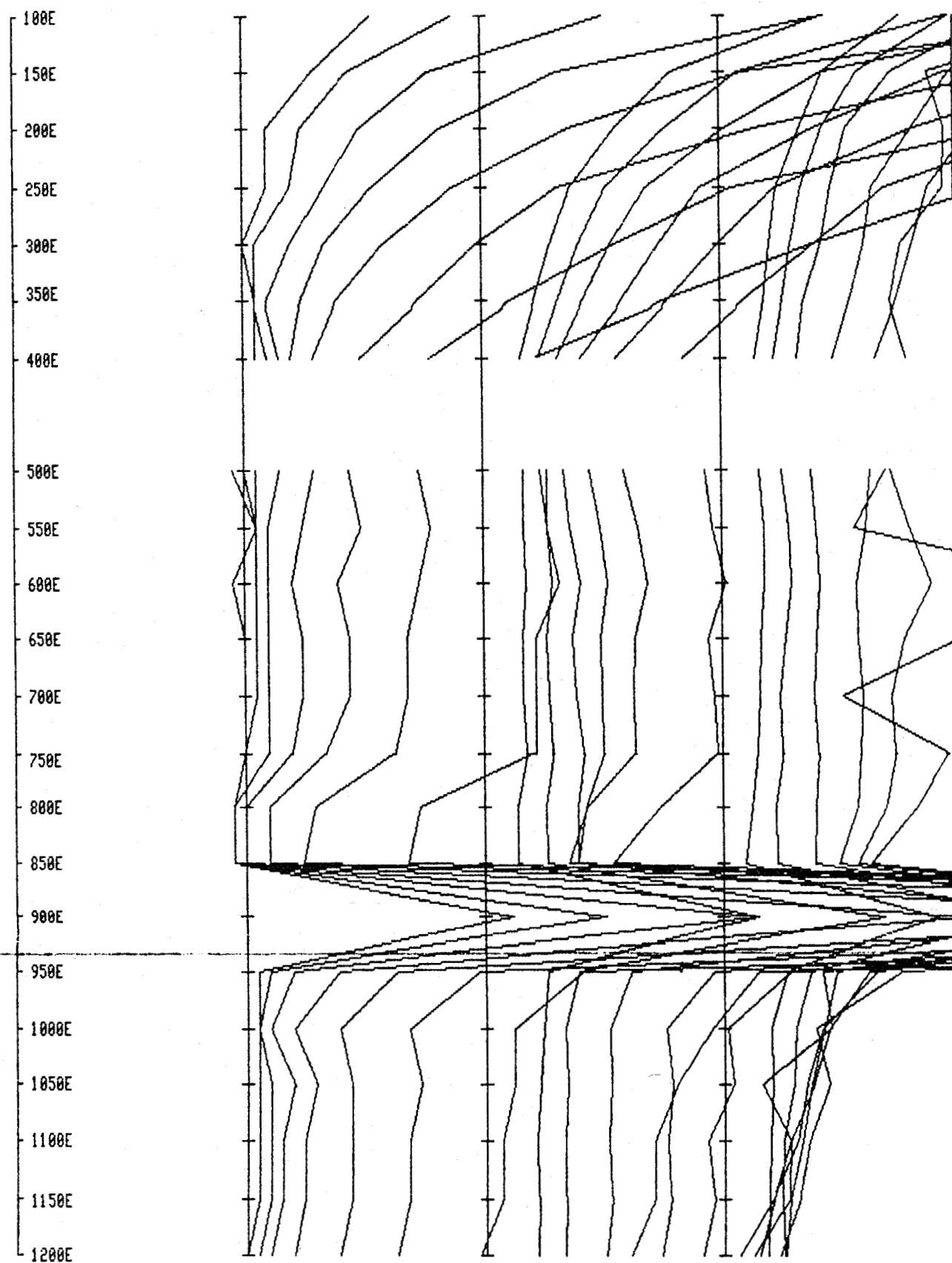
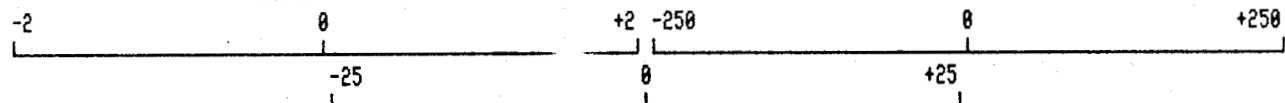
Project:	YAHK	Tx Loop:	4
Grid:	60AT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; 0E-400E
Line:	L2400N	Turn-off:	213 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	19/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

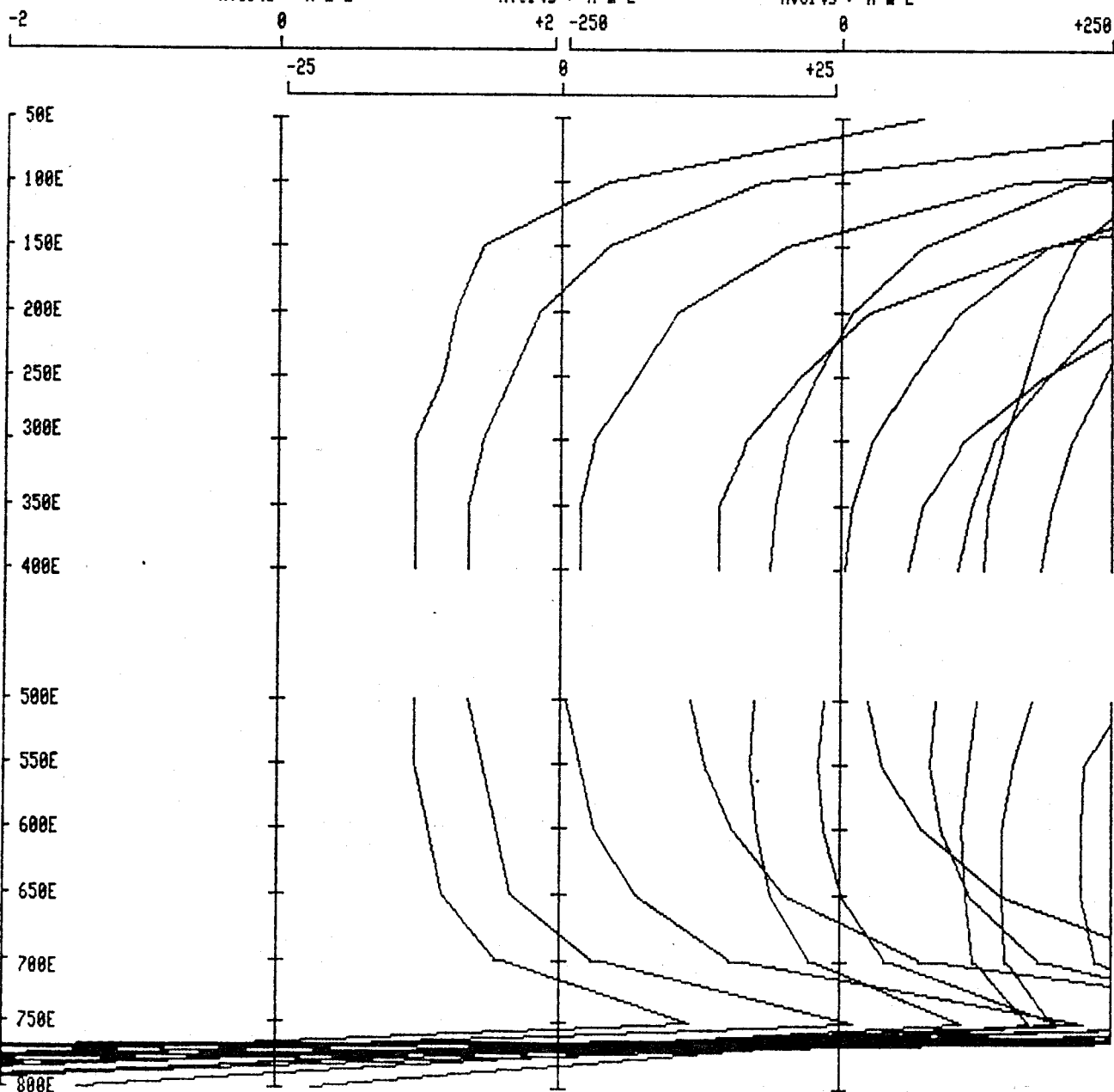
Project:	YAHK	Tx Loop:	4
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; OE-400E
Line:	L2500N	Turn-off:	213 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	19/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

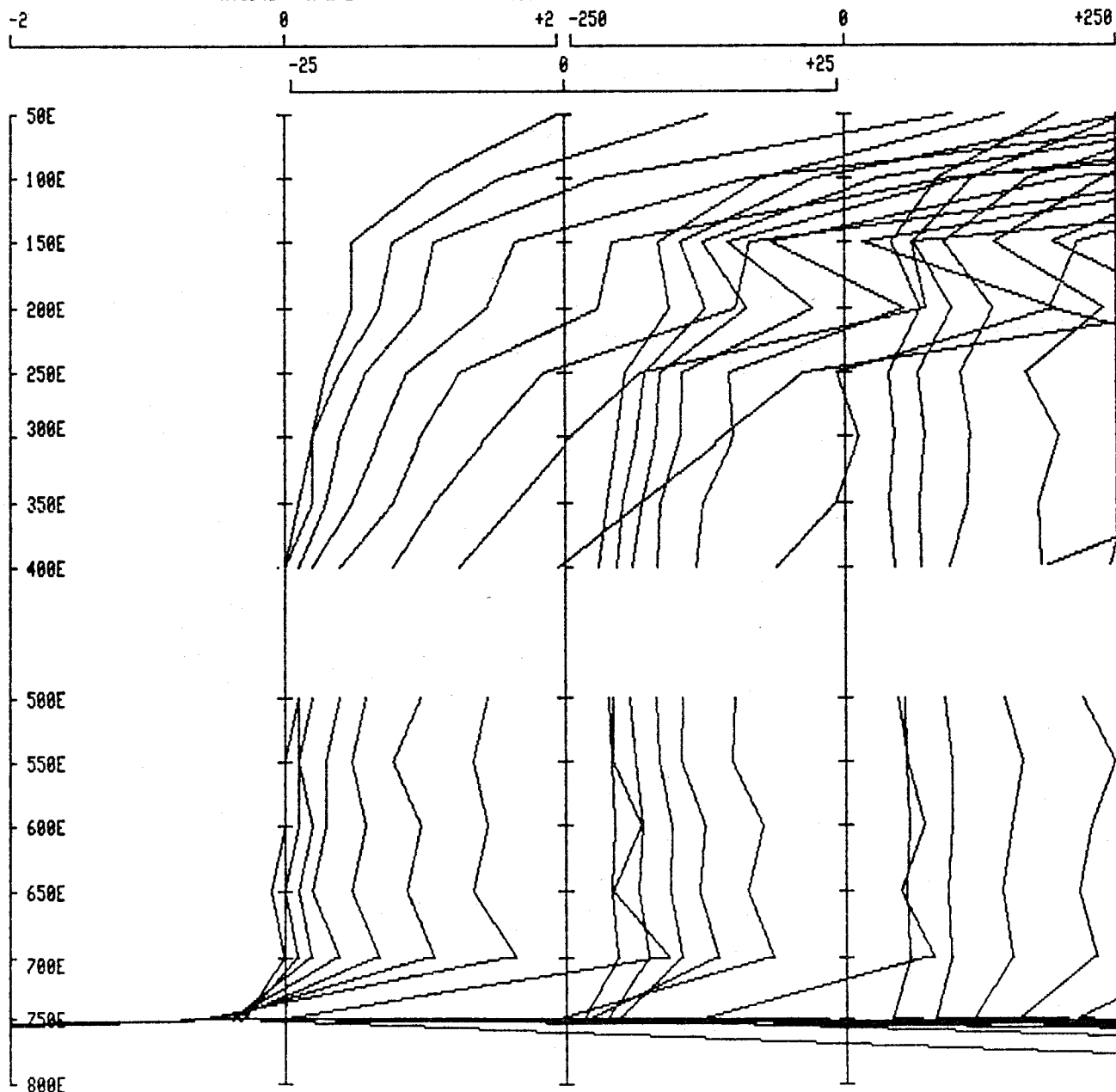
Project:	YAHK	Tx Loop:	4
Grid:	60AT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; 0E-400E
Line:	L2500N	Turn-off:	213 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	19/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 28
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



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TRANSIENT EM by QUANTECH CONSULTING INC.

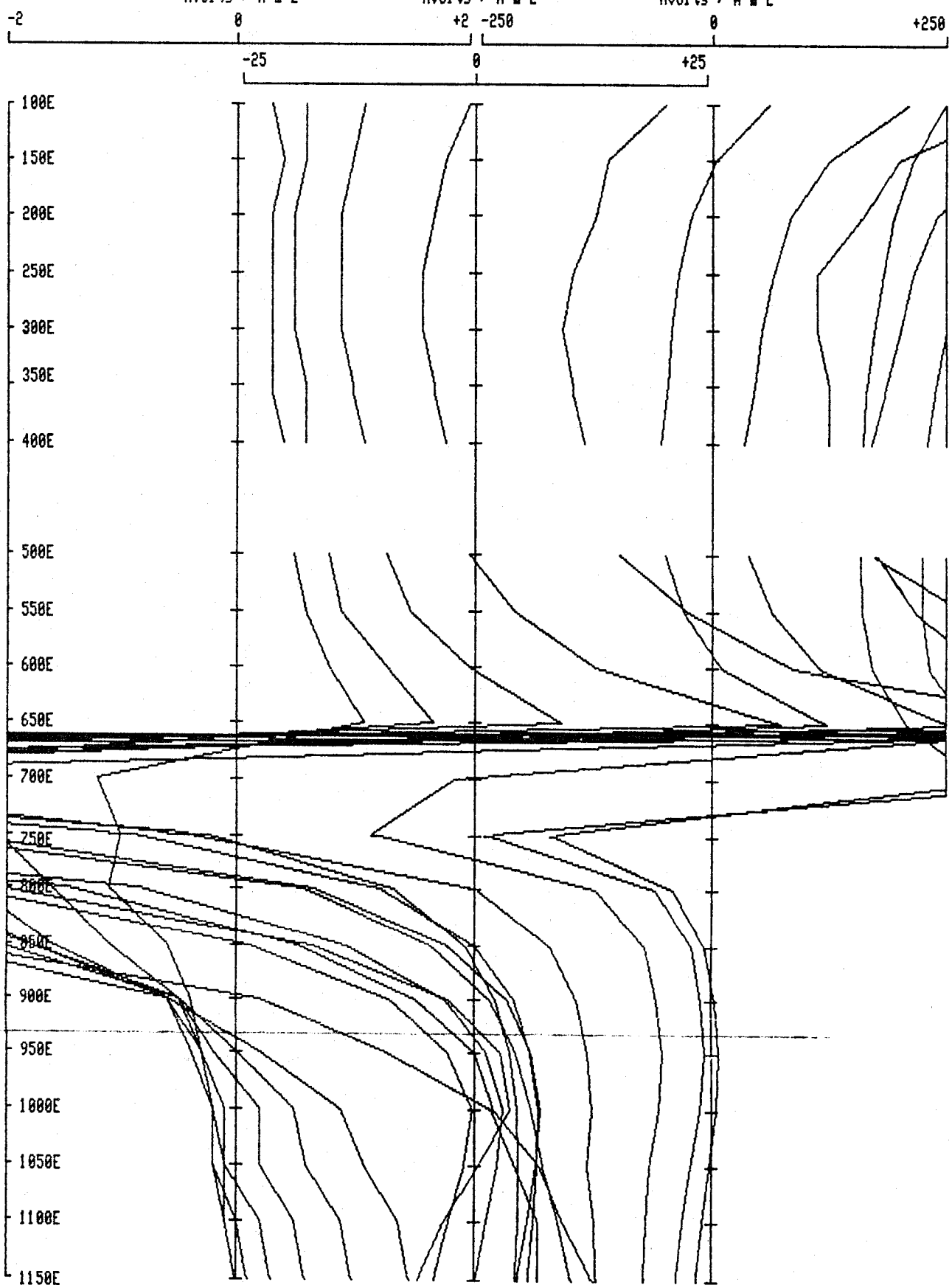
Project:	YAHK	Tx Loop:	4
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; OE-400E
Line:	L2600N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	17/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

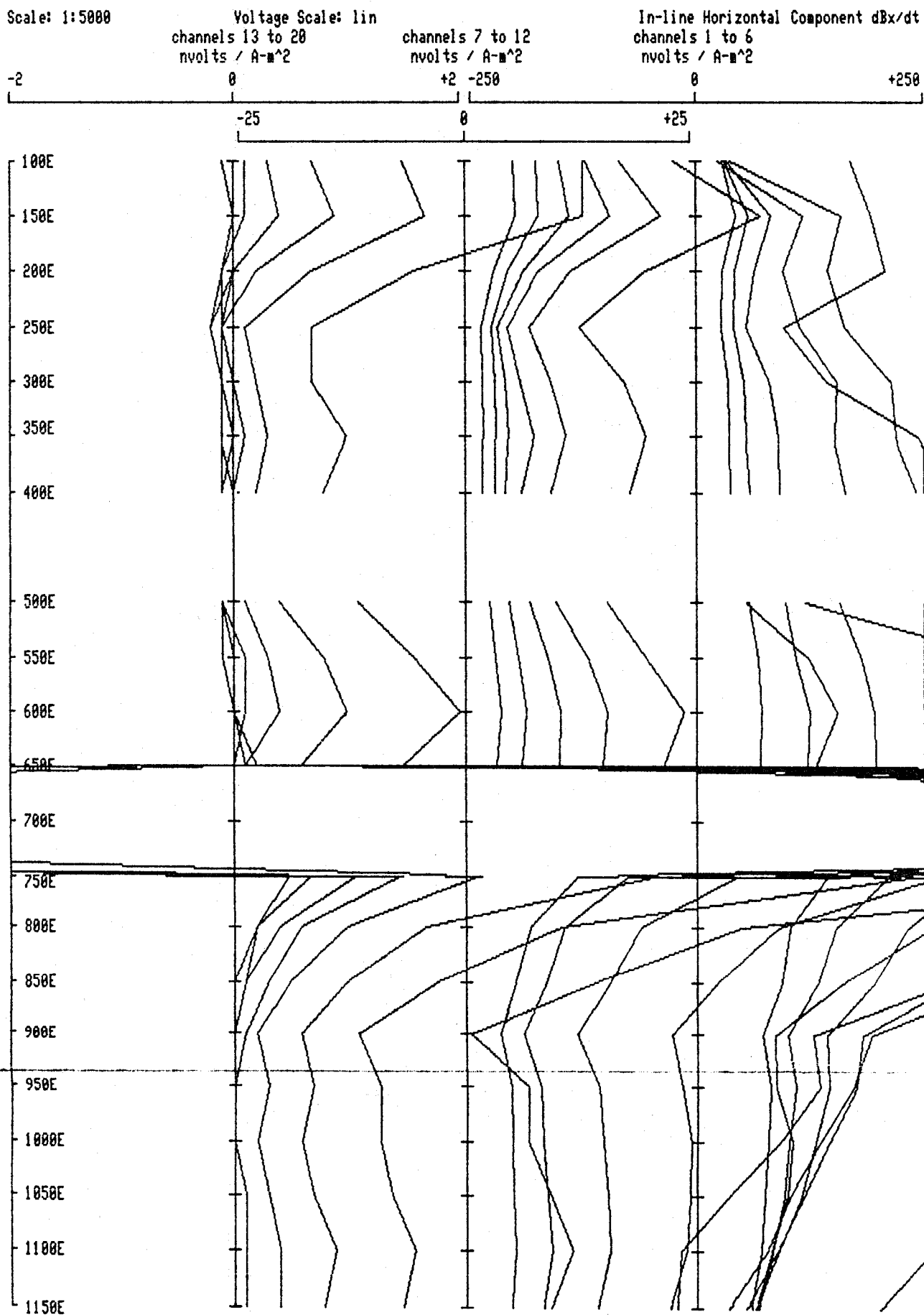
Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

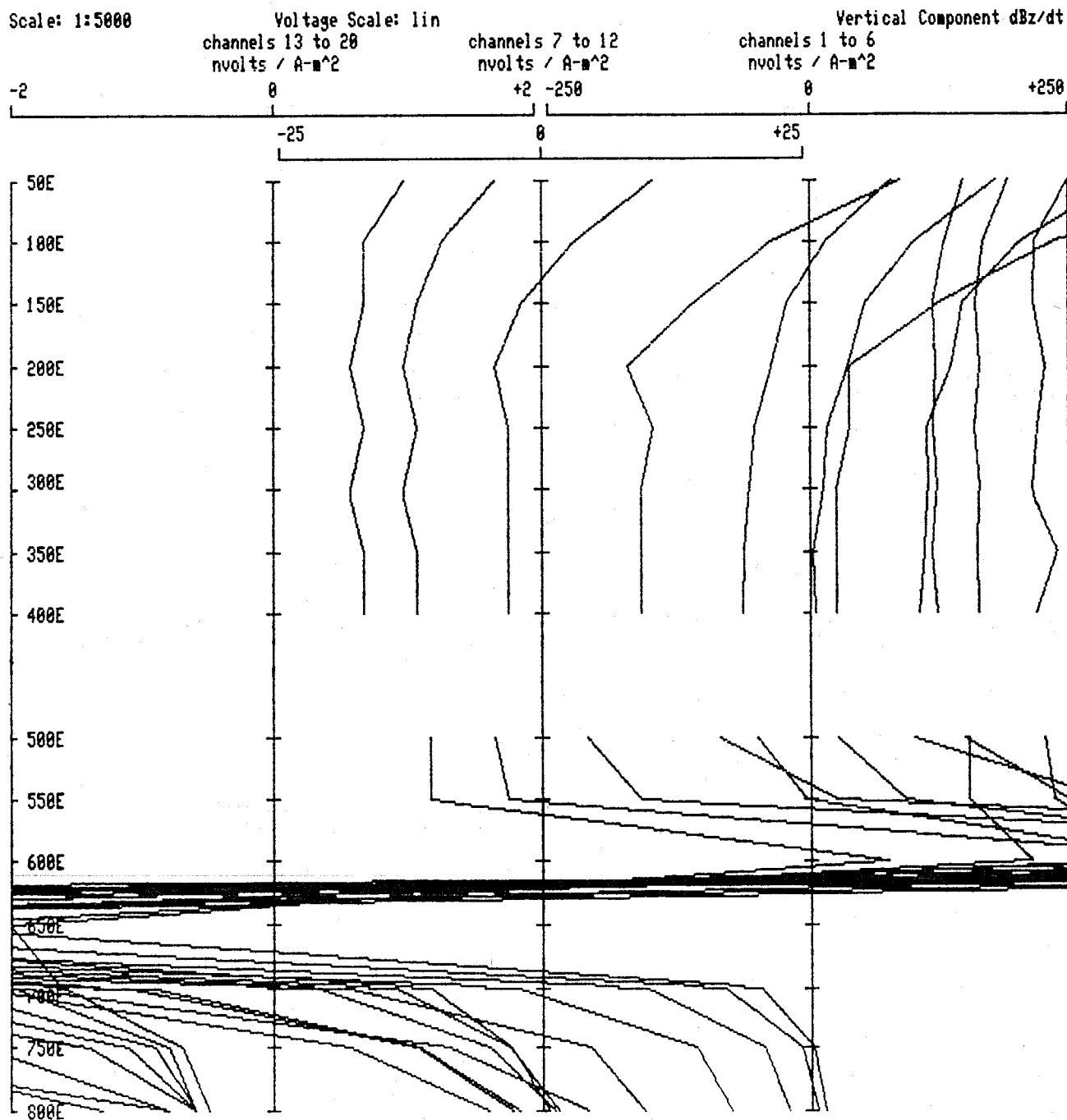
Project:	YAHK	Tx Loop:	4
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; DE-400E
Line:	L2600N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	17/07/87	Gain:	6



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	4
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; OE-400E
Line:	L2700N	Turn-off:	213 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	19/07/87	Gain:	6



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

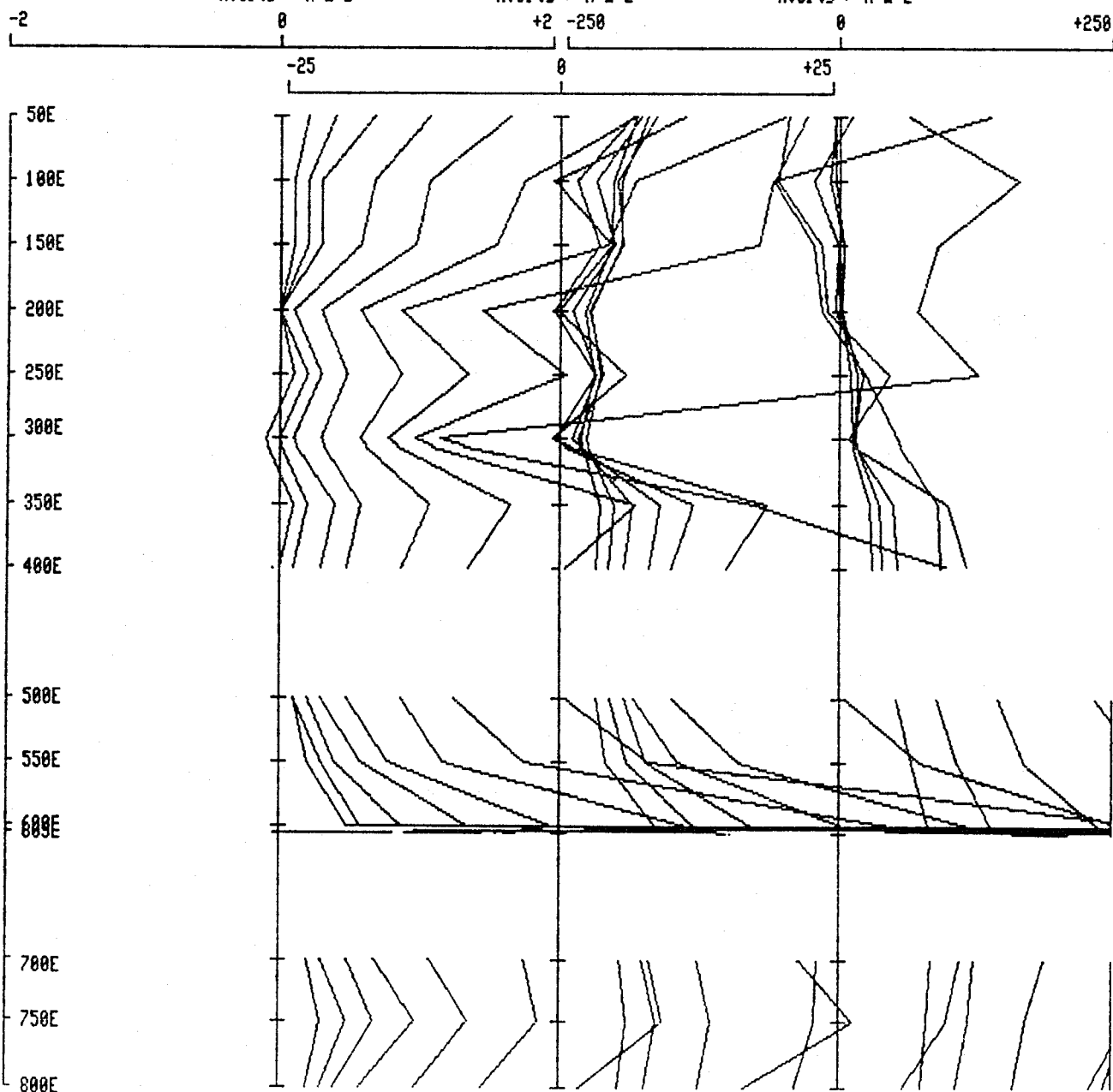
Project:	YAHK	Tx Loop:	4
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; 0E-400E
Line:	L2700N	Turn-off:	213 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	19/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	4
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; OE-400E
Line:	L2800N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	17/07/87	Gain:	6

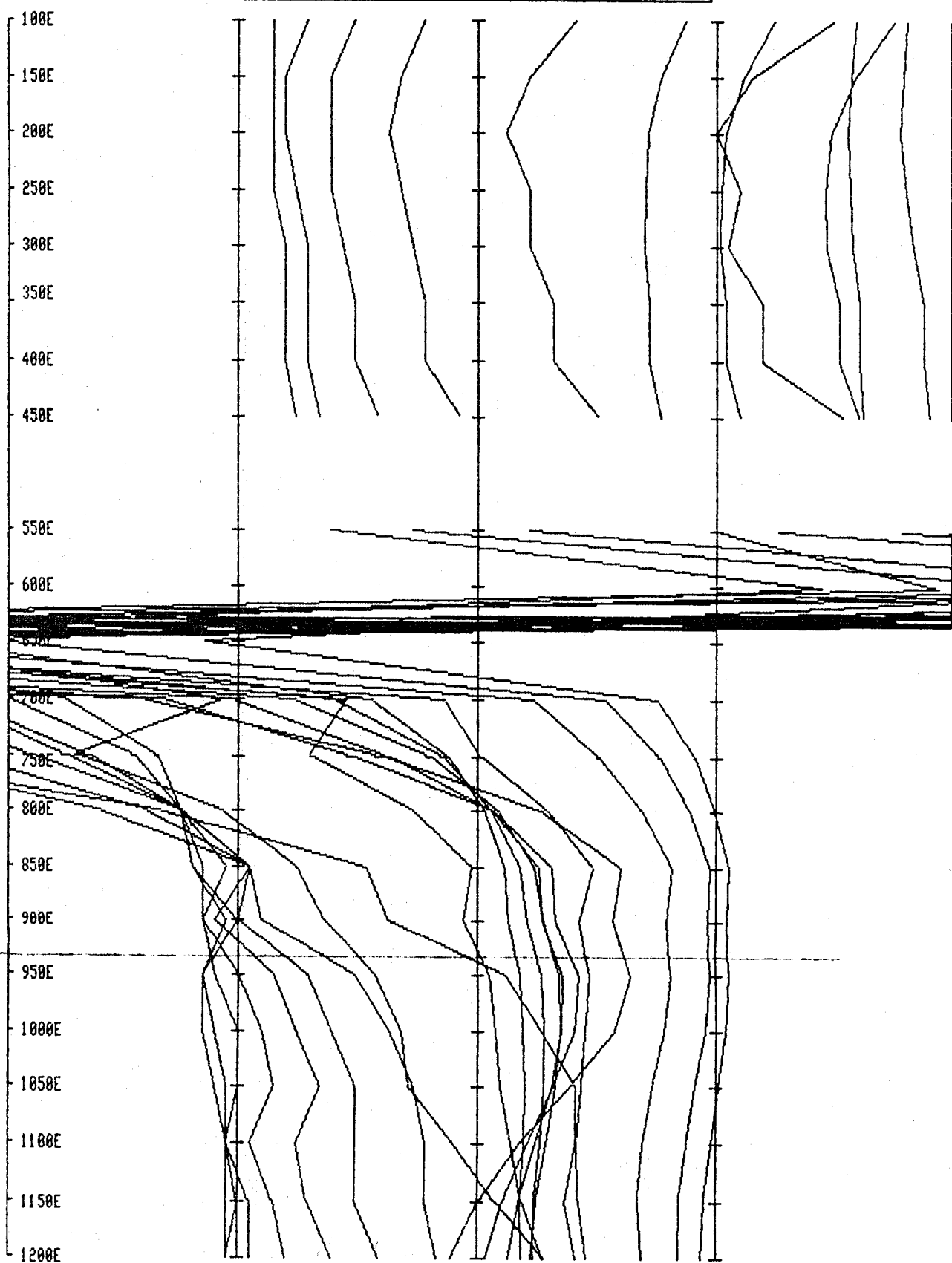
Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²

-2	0	+2 -250	0	+250
	-25	0	+25	



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	4
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	2100N-2900N; 0E-400E
Line:	L2800N	Turn-off:	210 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	17/07/87	Gain:	6

Scale: 1:5000

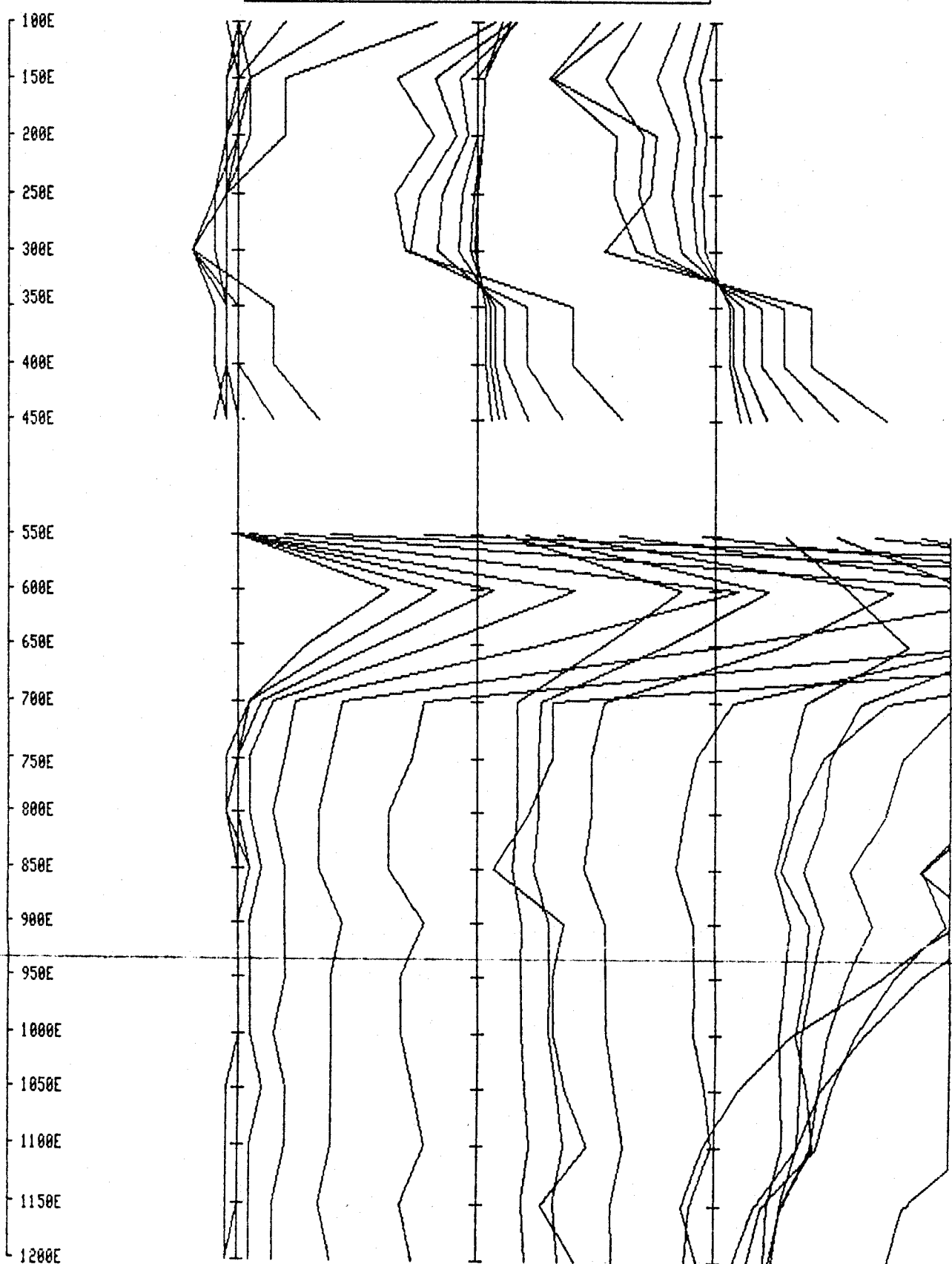
Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²

-2 0 +2 -250 0 +250

-25 0 +25



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

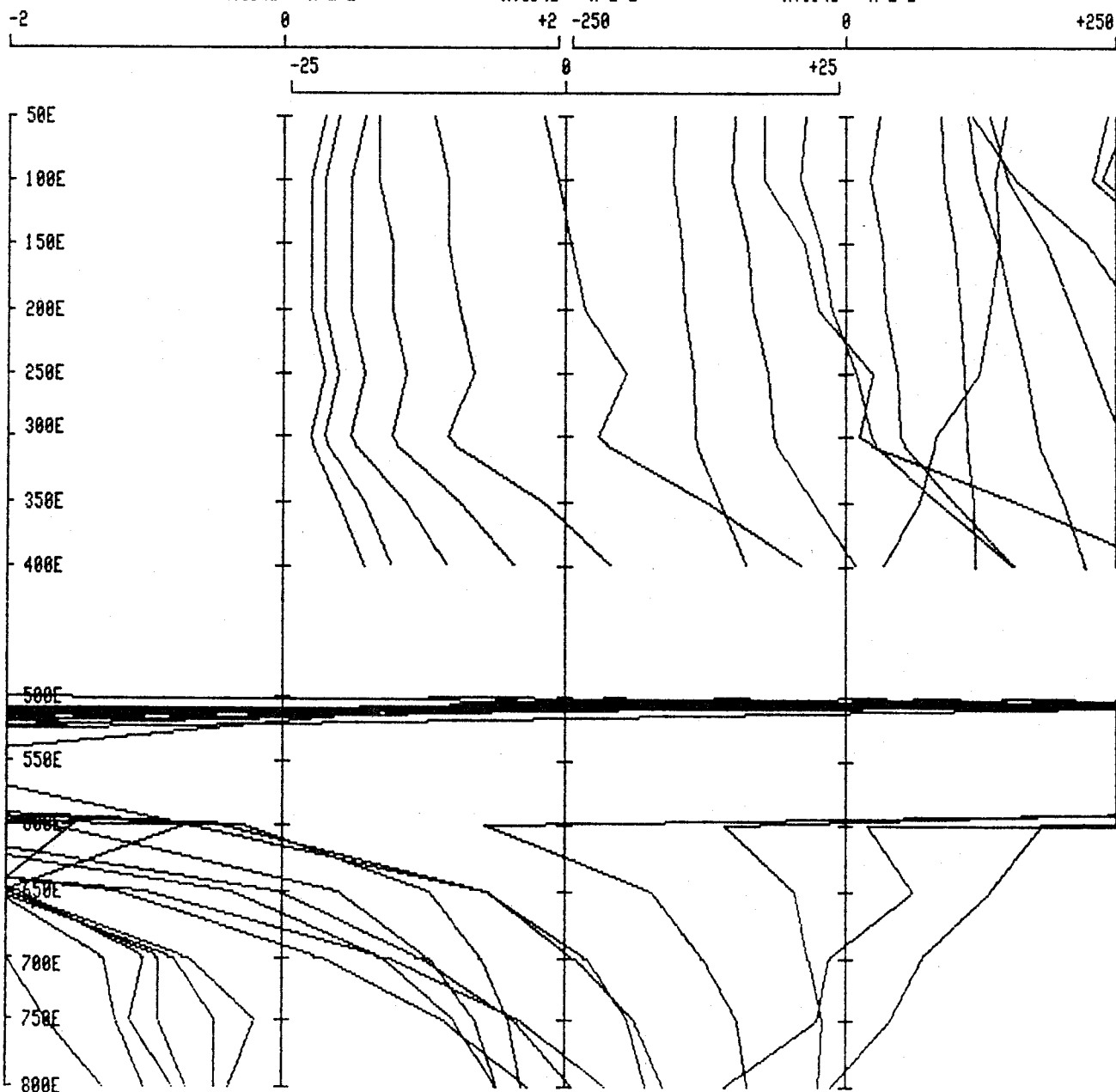
Project:	YAHK	Tx Loop:	5
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; 0E-400E
Line:	L2900N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	27/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

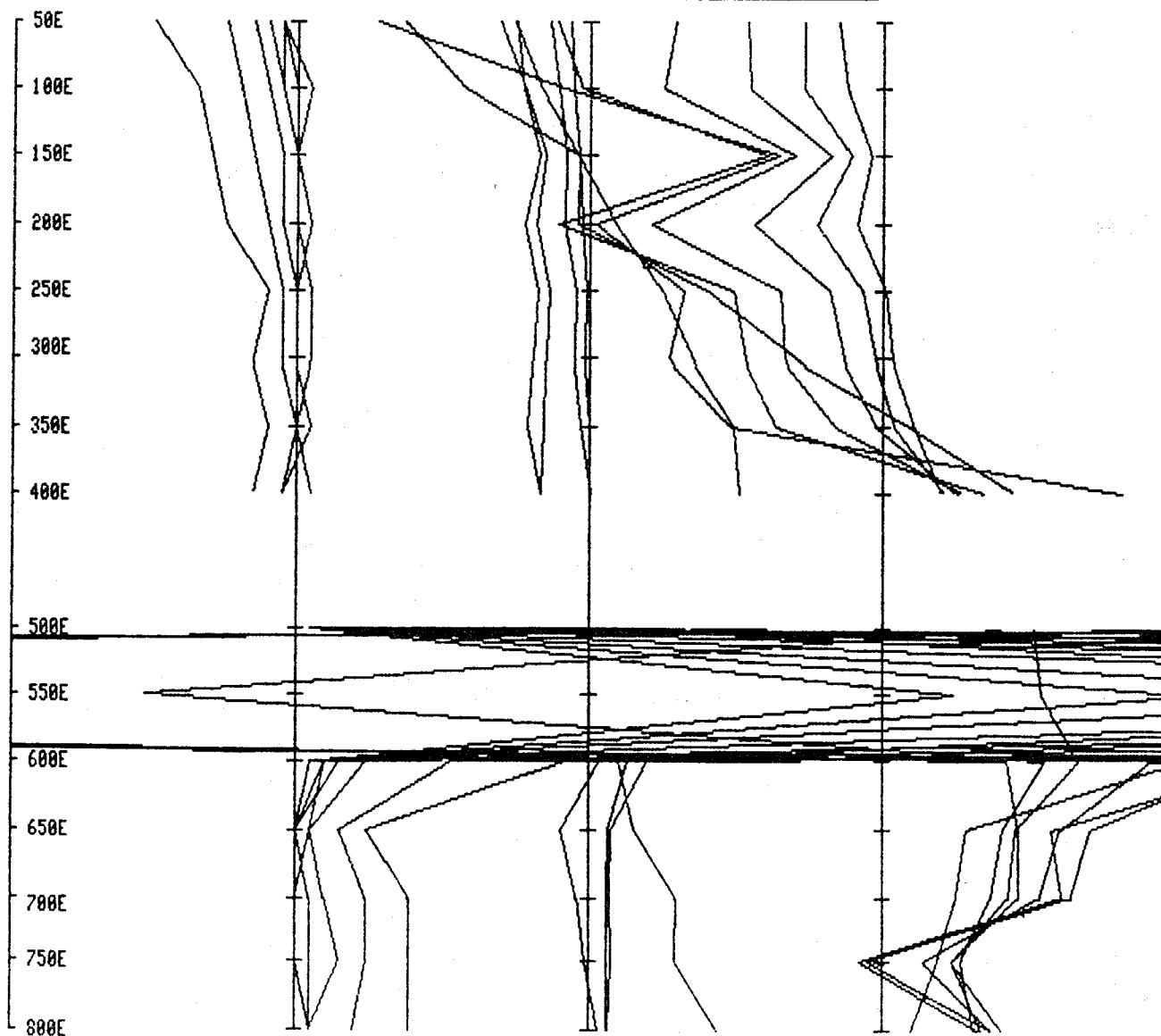
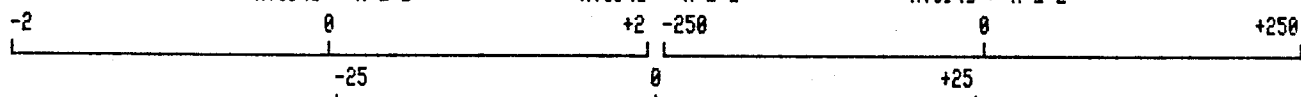
Project:	YAHK	Tx Loop:	5
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; 0E-400E
Line:	L2900N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	27/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	5
Grid:	60AT	Current:	8.4 Amps
System:	Geonics EM-37	Position:	2800N-3600N; 0E-400E
Line:	L3000N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	27/07/87	Gain:	6

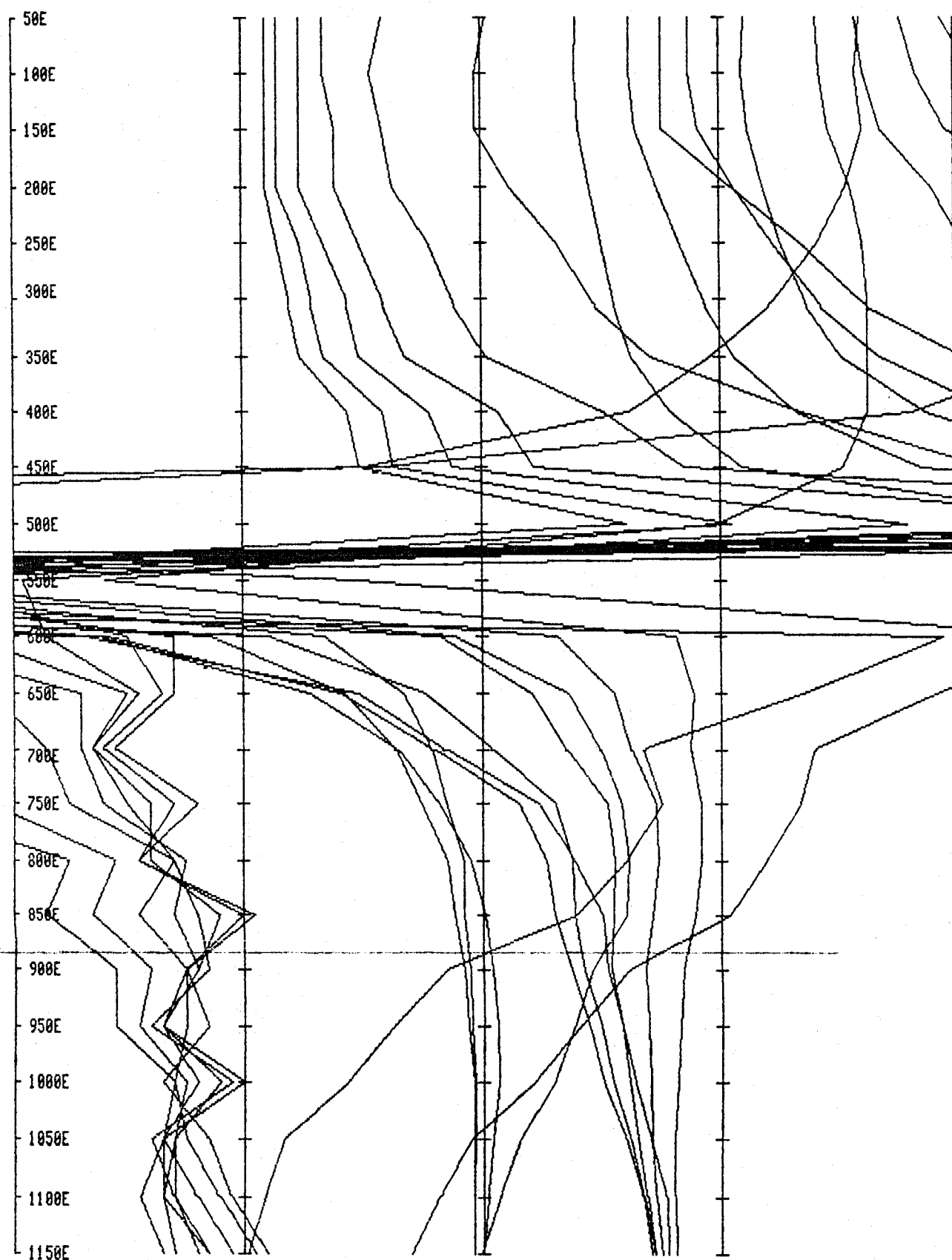
Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²

-2 0 +2 -250 0 +250



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

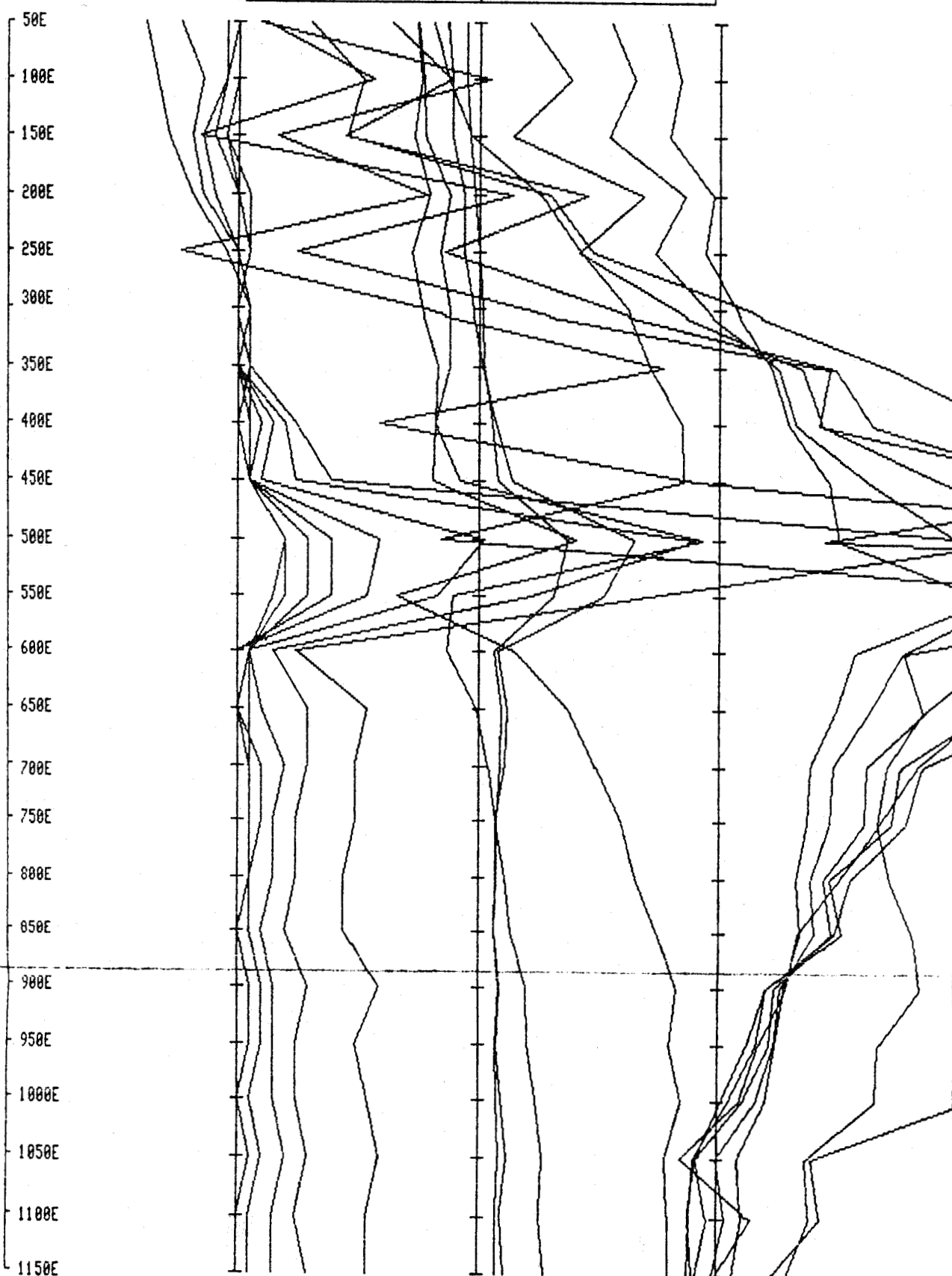
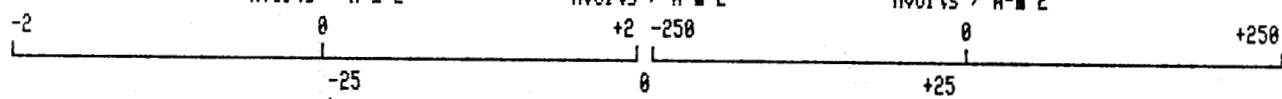
Project:	YAHK	Tx Loop:	5
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; 0E-400E
Line:	L3000N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	27/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 28
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

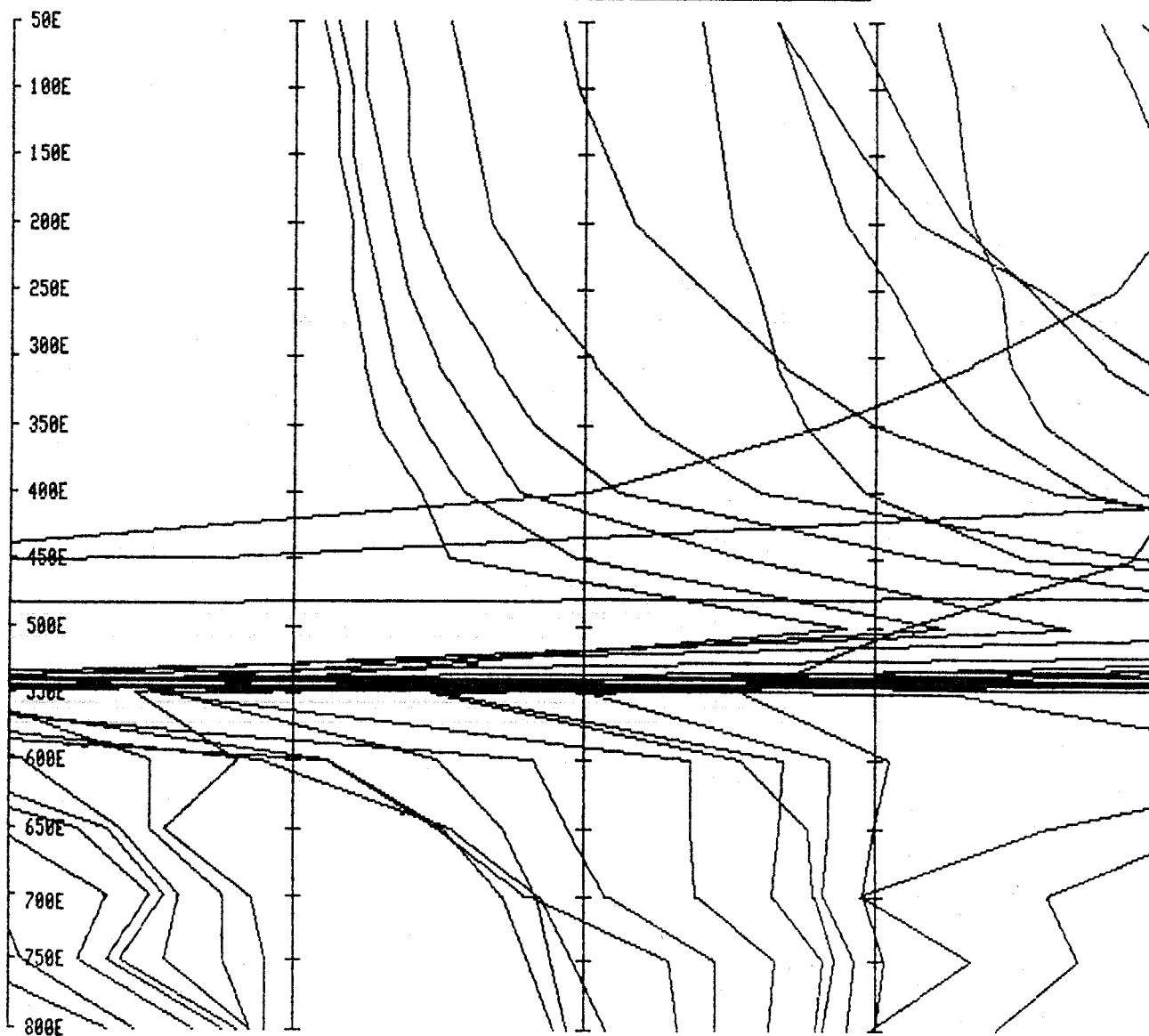
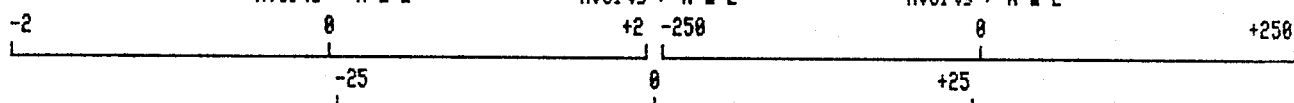
Project:	YAHK	Tx Loop:	5
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; 0E-400E
Line:	L3100N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	27/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



DREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

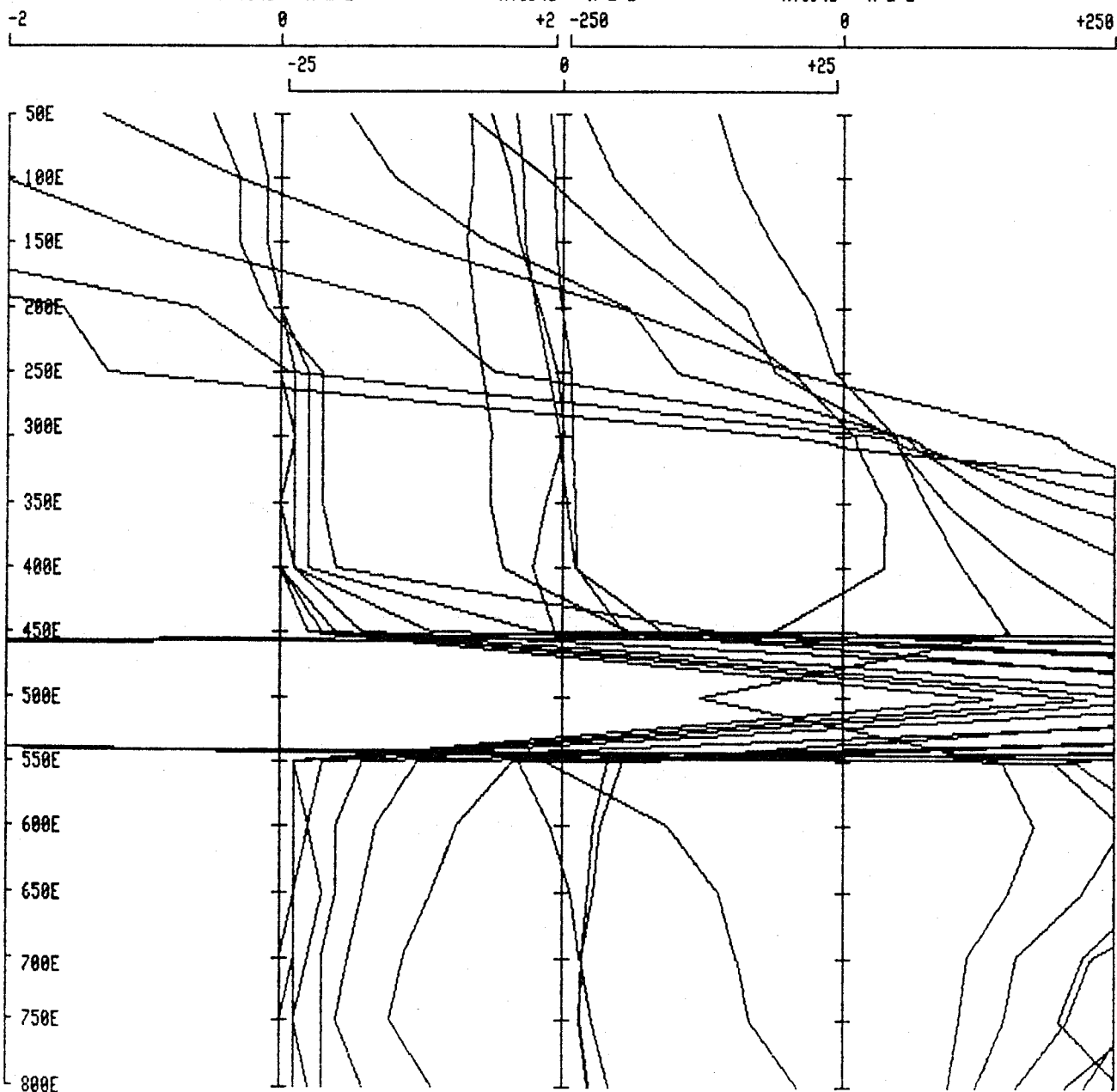
Project:	YAHK	Tx Loop:	5
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; 0E-400E
Line:	L3100N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	27/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

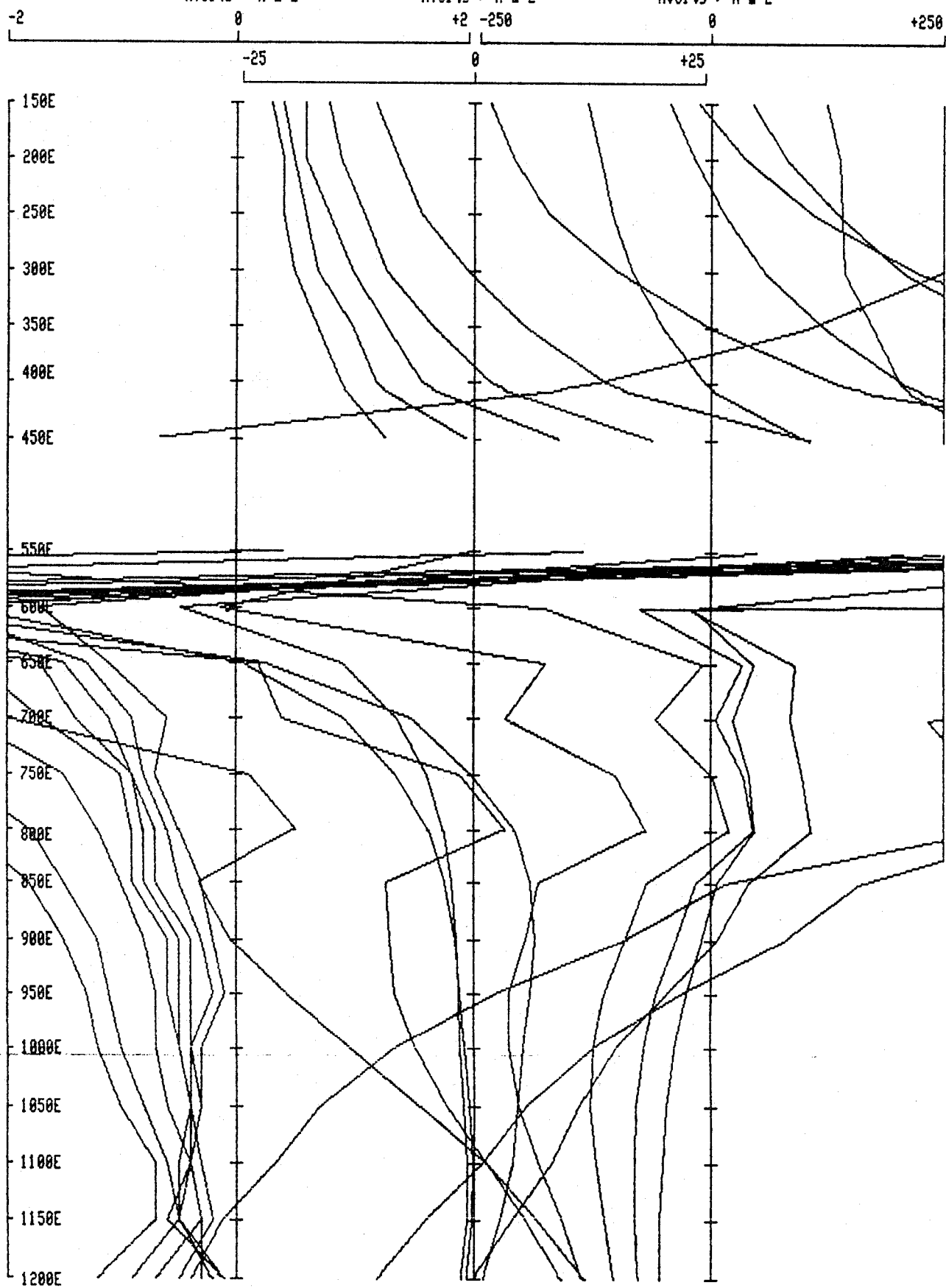
Project:	YAHK	Tx Loop:	5
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; 0E-400E
Line:	L3200N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	27/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

Vertical Component dBz/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

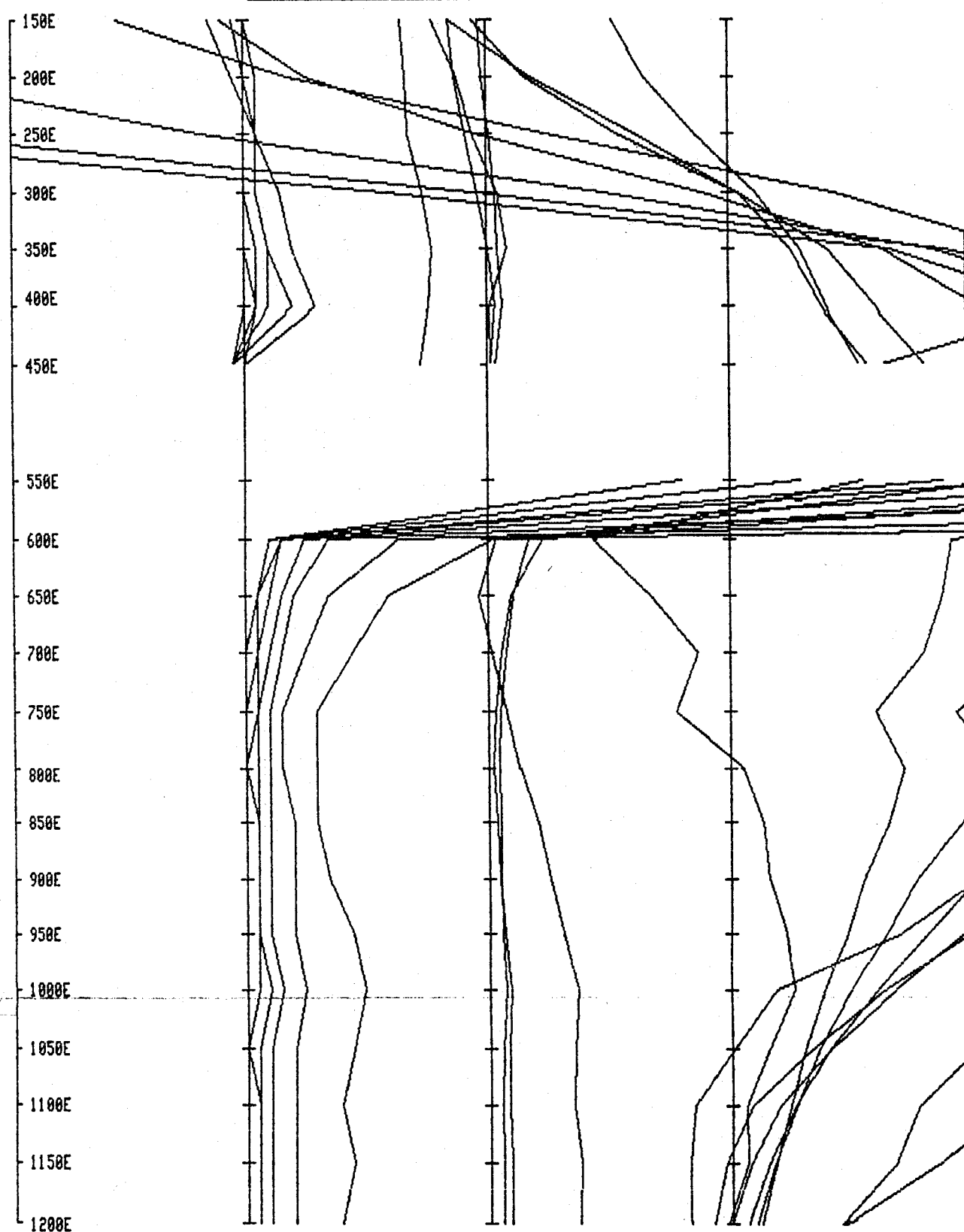
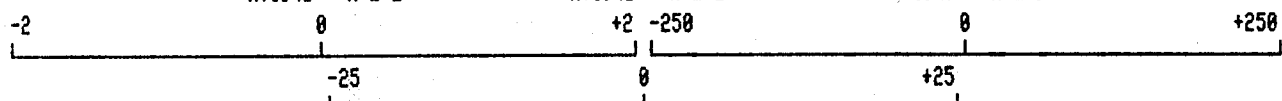
Project:	YAHK	Tx Loop:	5
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; 0E-400E
Line:	L3200N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	27/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

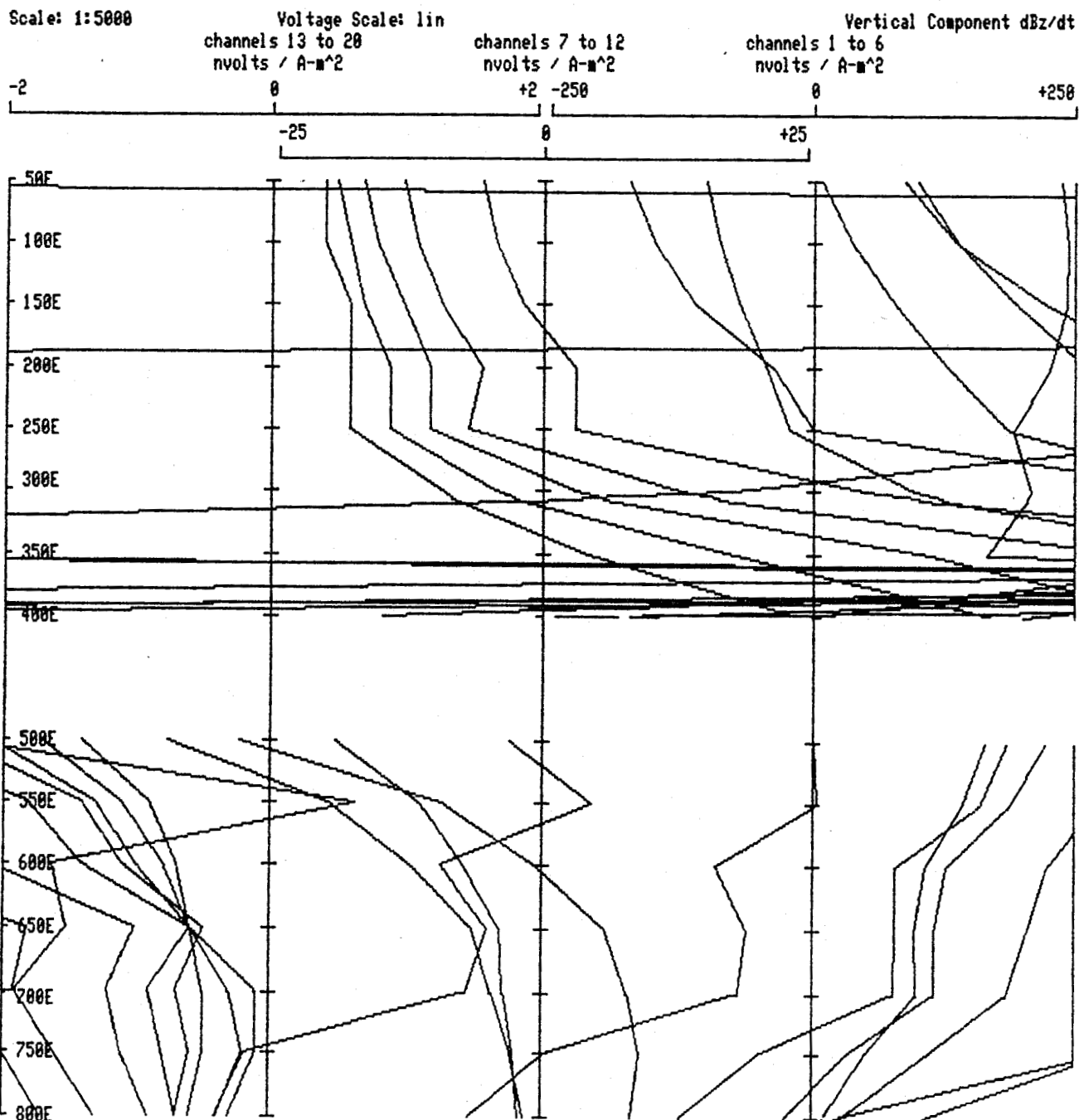
In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

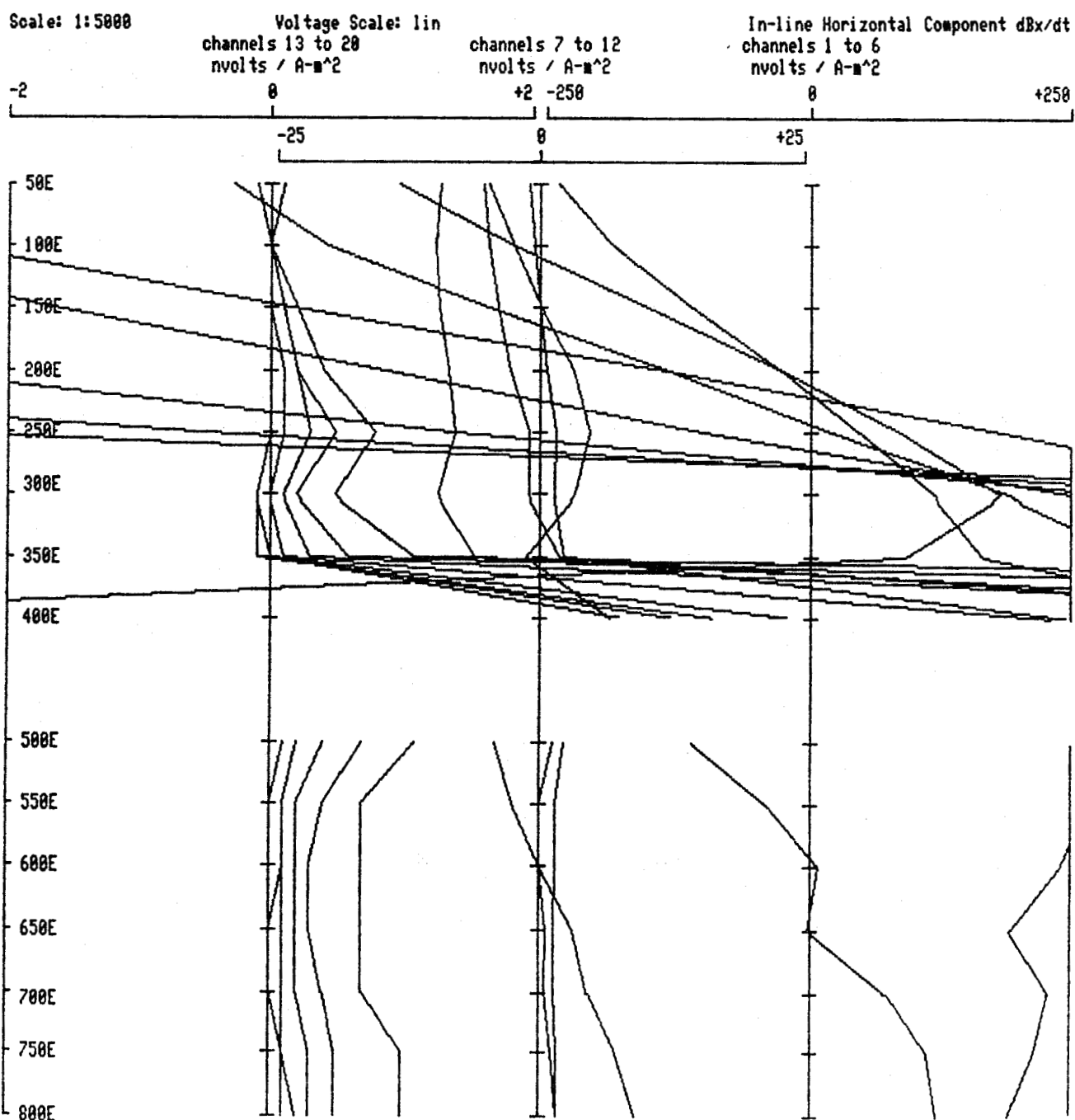
Project:	YAHK	Tx Loop:	5
Grid:	GOAT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; 0E-400E
Line:	L3300N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	27/07/87	Gain:	6



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

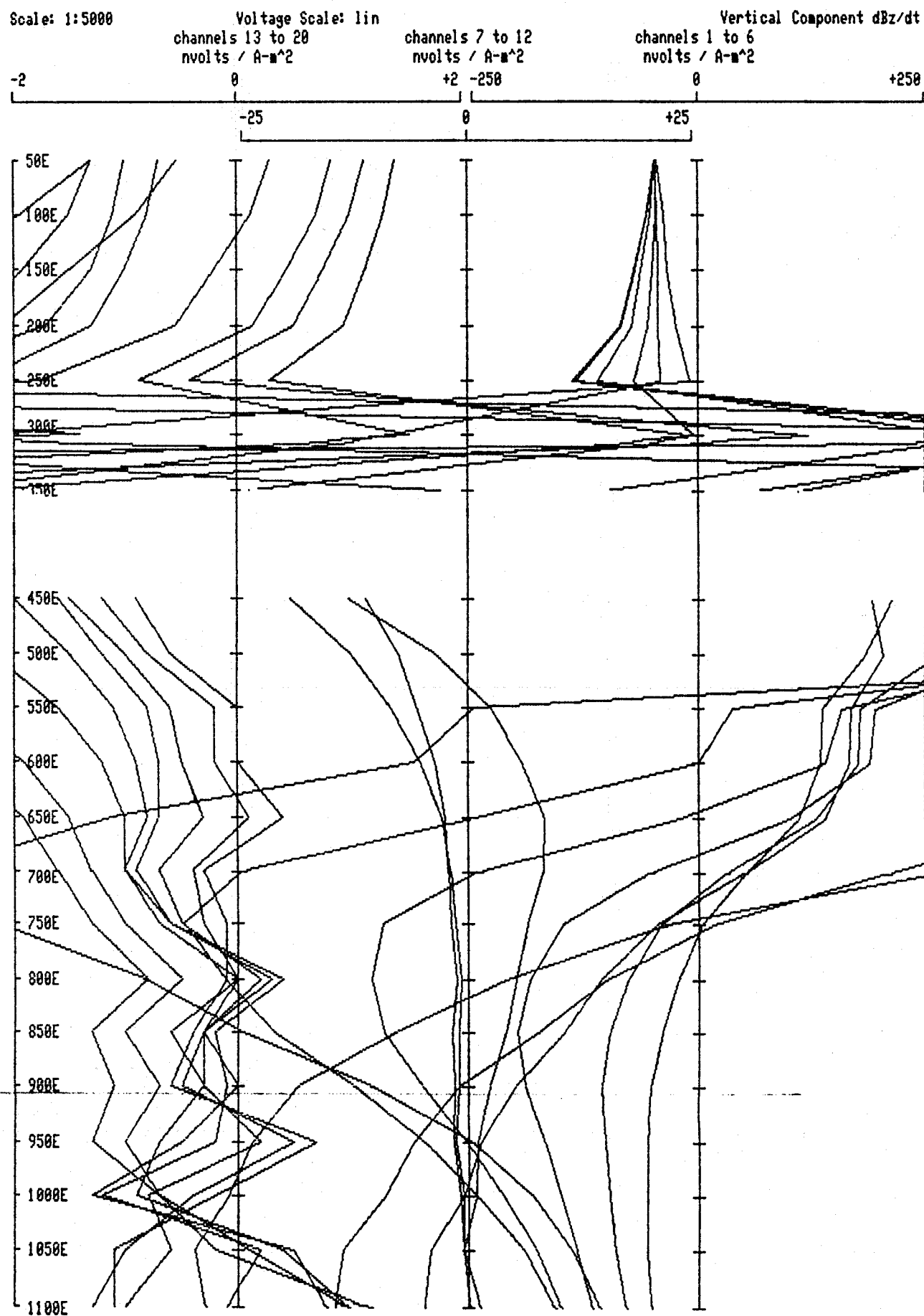
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Grid:	60AT	Current:	8.4 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; OE-400E
Line:	L3300N	Turn-off:	211 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	27/07/87	Gain:	6



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	5
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; 0E-400E
Line:	L3400N	Turn-off:	191 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	26/07/87	Gain:	6



OREQUEST CONSULTANTS LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

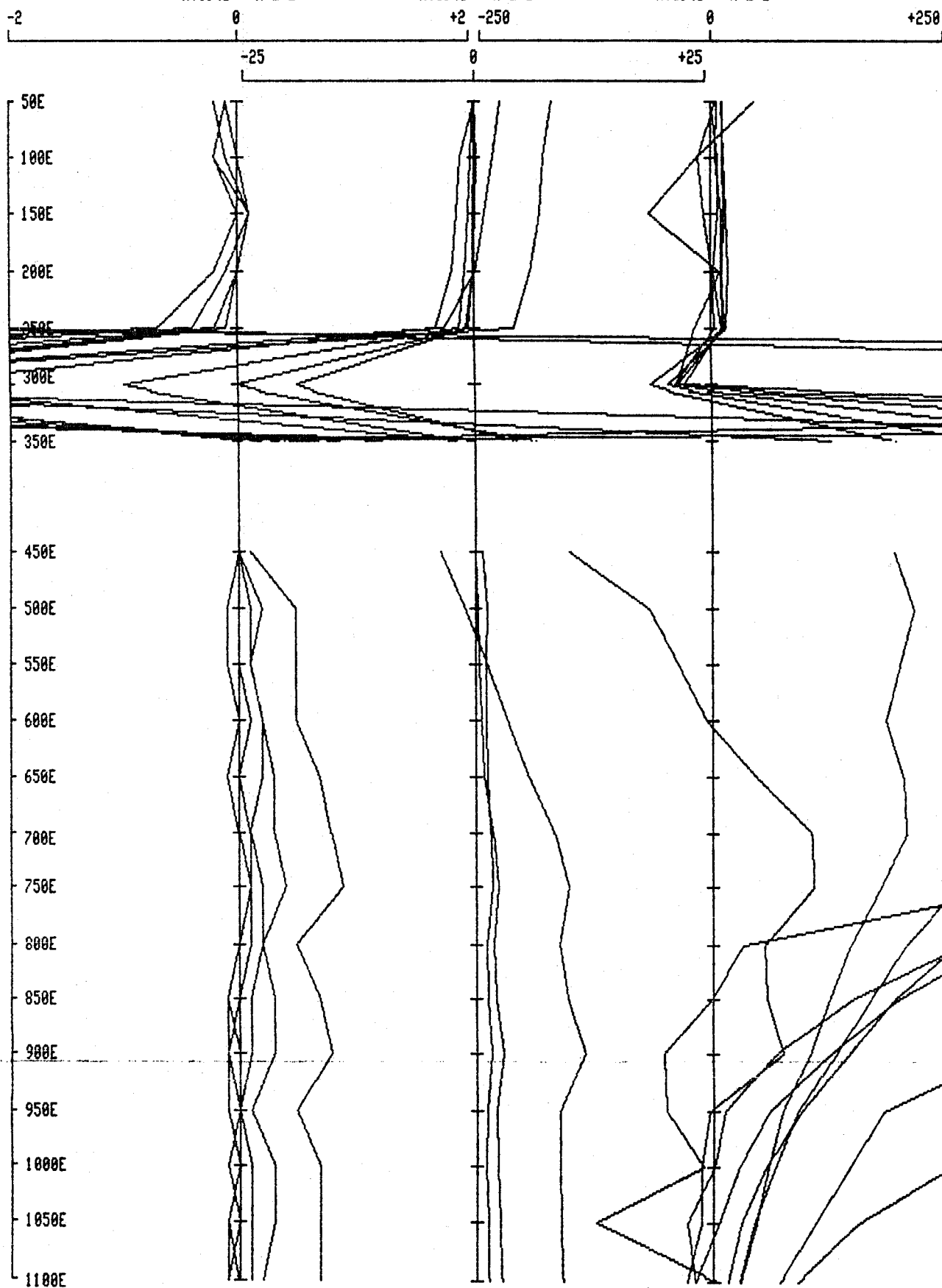
Project:	YAHK	Tx Loop:	5
Grid:	GOAT	Current:	8 Amps
System:	Geonics EM-37	Position:	2800N-3600N; 0E-400E
Line:	L3400N	Turn-off:	191 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	26/07/87	Gain:	6

Scale: 1:5000

Voltage Scale: lin
channels 13 to 20
nvolts / A-m²

channels 7 to 12
nvolts / A-m²

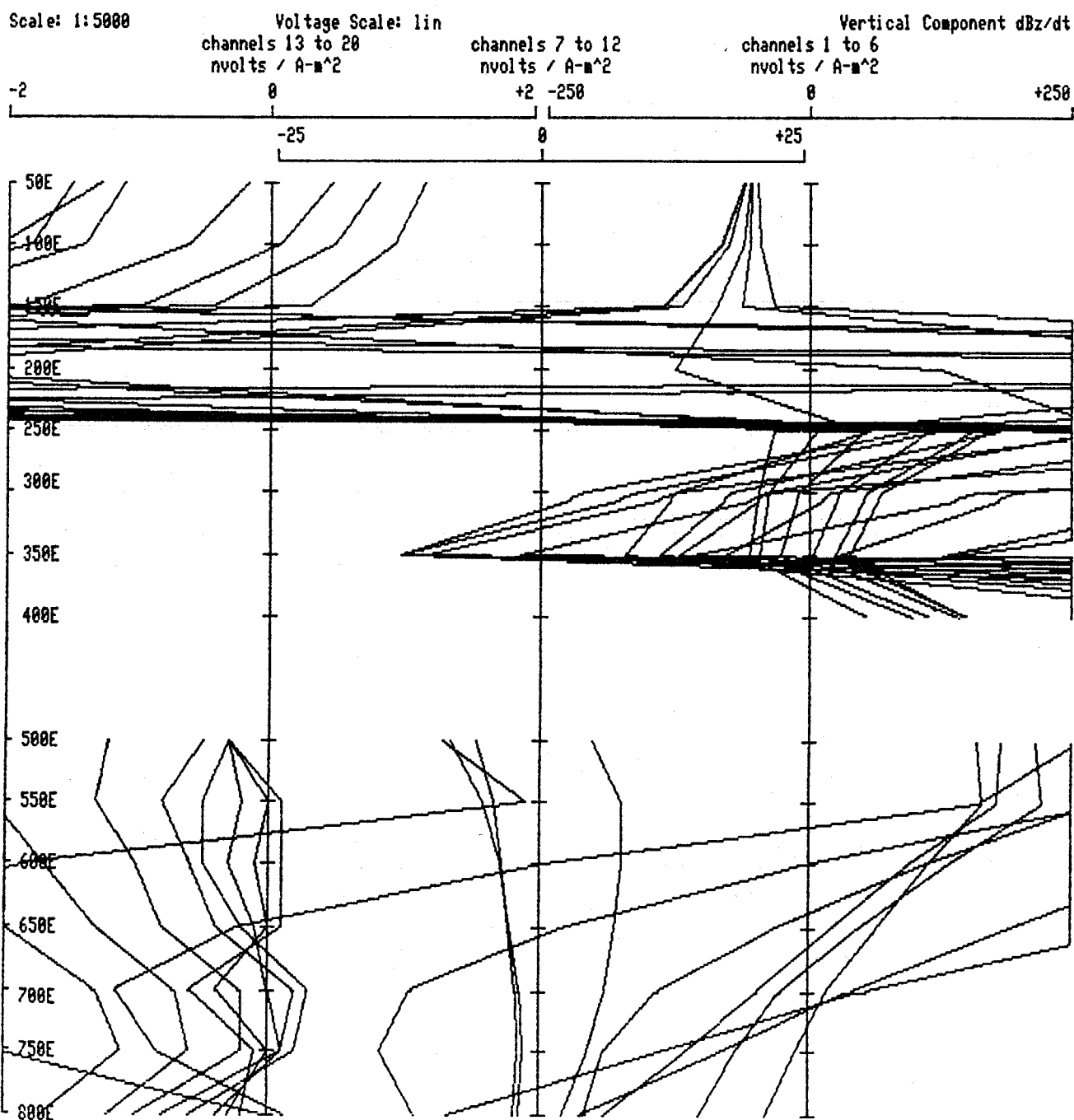
In-line Horizontal Component dBx/dt
channels 1 to 6
nvolts / A-m²



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

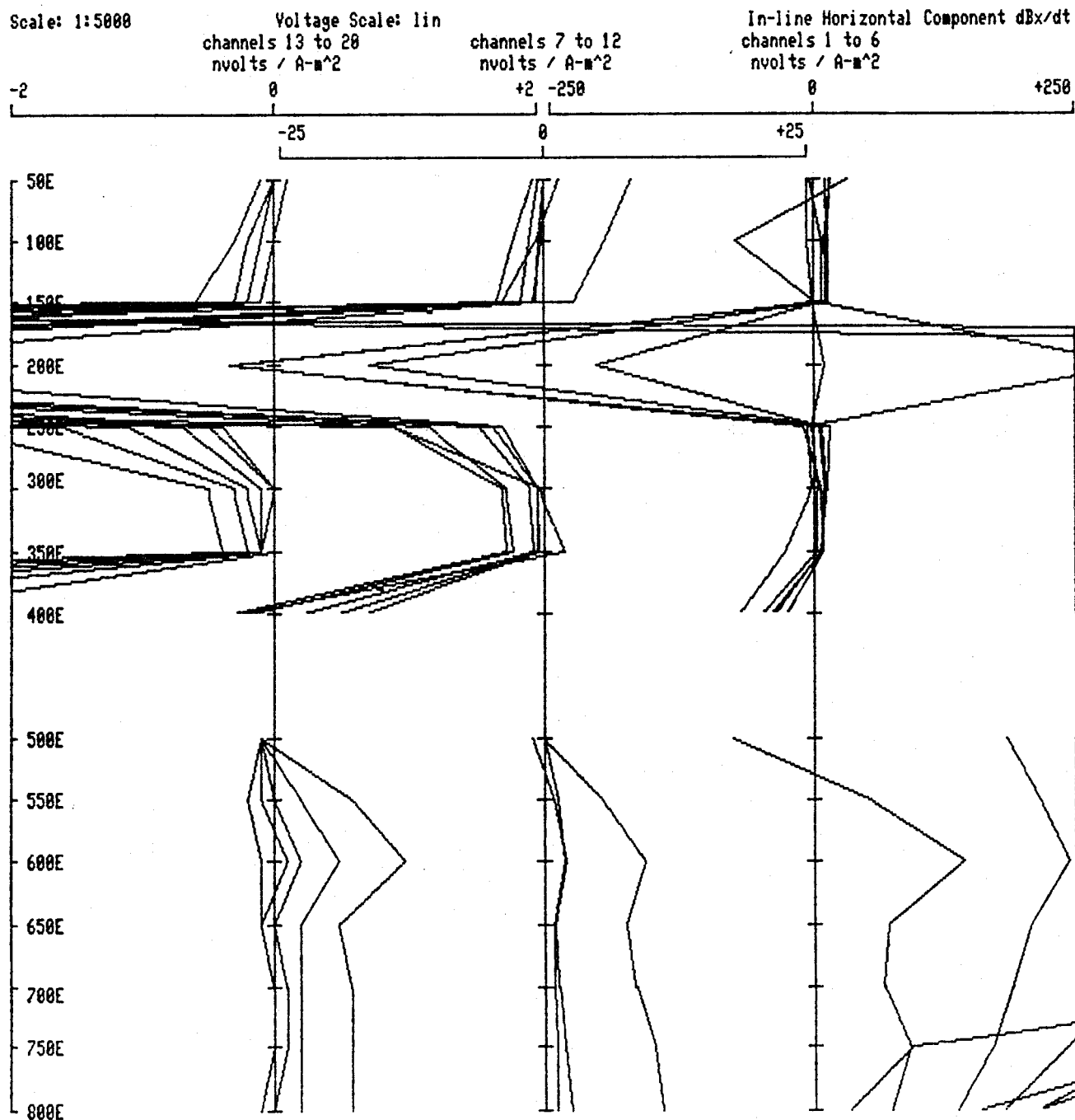
Project:	YAHK	Tx Loop:	5
Grid:	60AT	Current:	8 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; 0E-400E
Line:	L3500N	Turn-off:	191 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	26/07/87	Gain:	6



OREQUEST_CONSULTANTS_LTD

TRANSIENT EM by QUANTECH CONSULTING INC.

Project:	YAHK	Tx Loop:	5
Grid:	GOAT	Current:	8 Amps
System:	Geonics_EM-37	Position:	2800N-3600N; 0E-400E
Line:	L3500N	Turn-off:	191 us
Survey mode:	Surface	Frequency:	30 Hz
Date:	26/06/87	Gain:	6



APPENDIX B

TEM Survey, Sounding Data

L800N 600E TEM SOUNDING CURVE

1.E+4 APP.RES

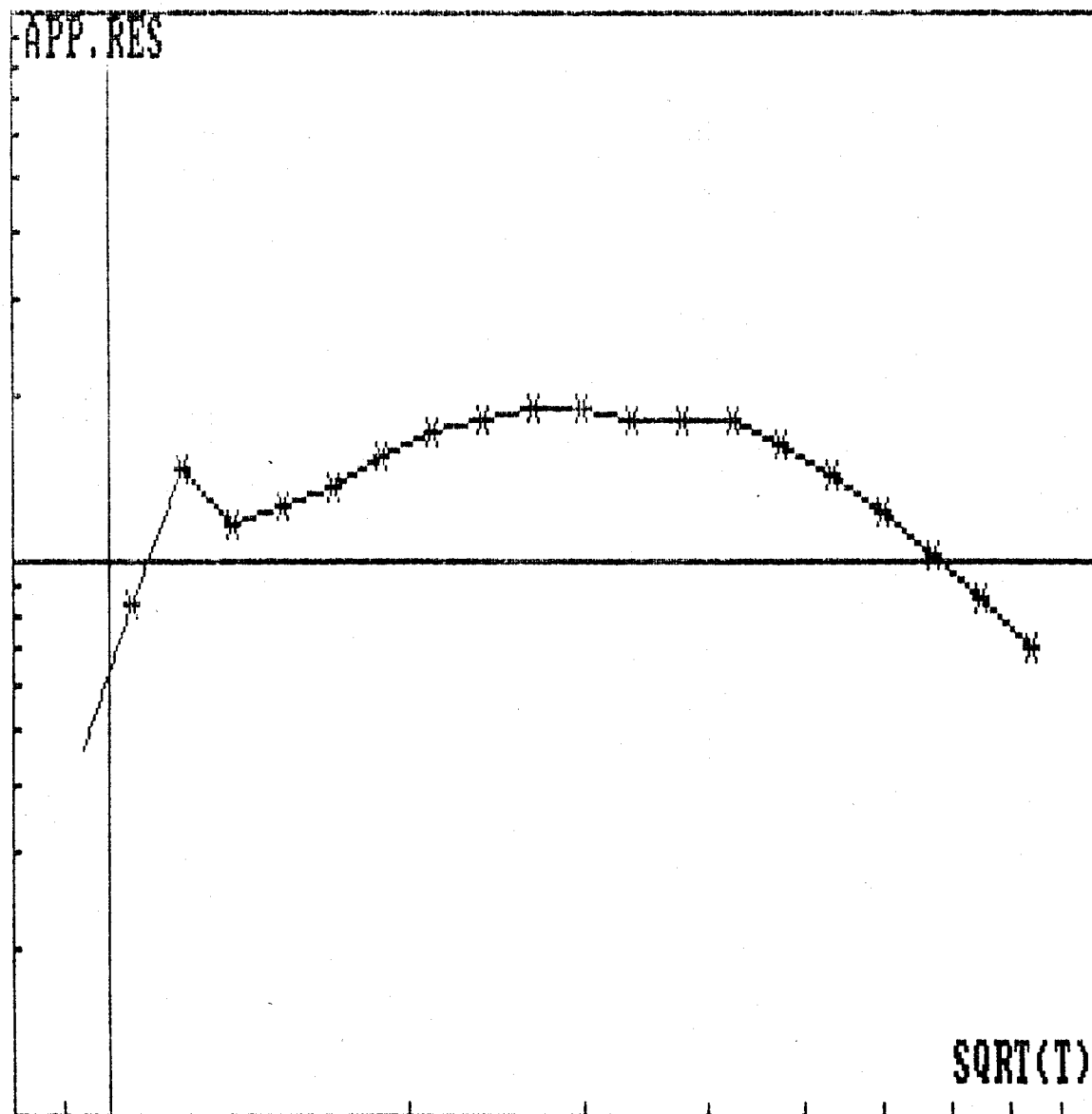
1.E+3

1.E+2

SQRT(T)

1.E-2

1.E-1



L1200N 600E TEM SOUNDING pr vs SQRT(T)

1.E+4 APP.RES

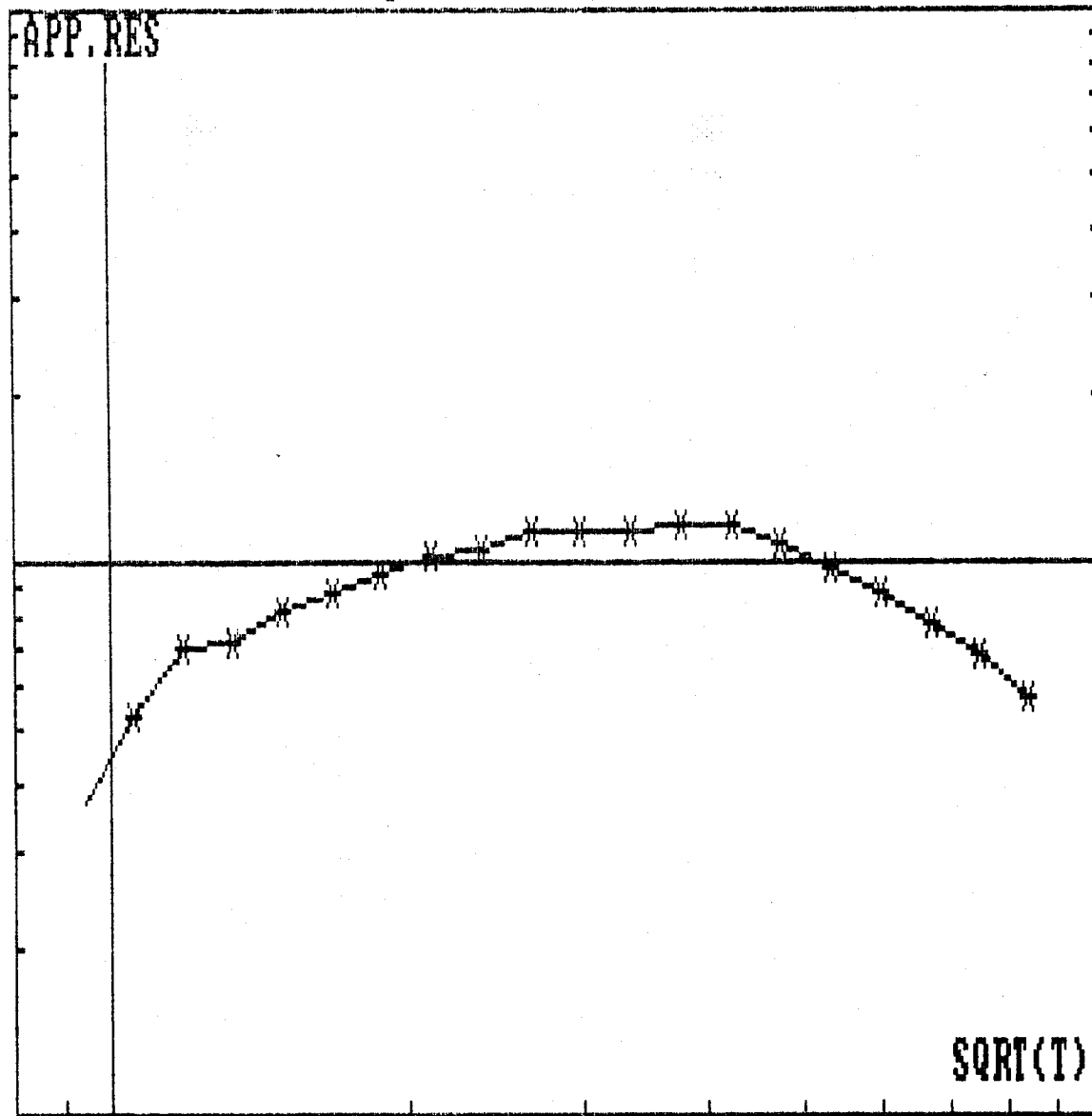
1.E+3

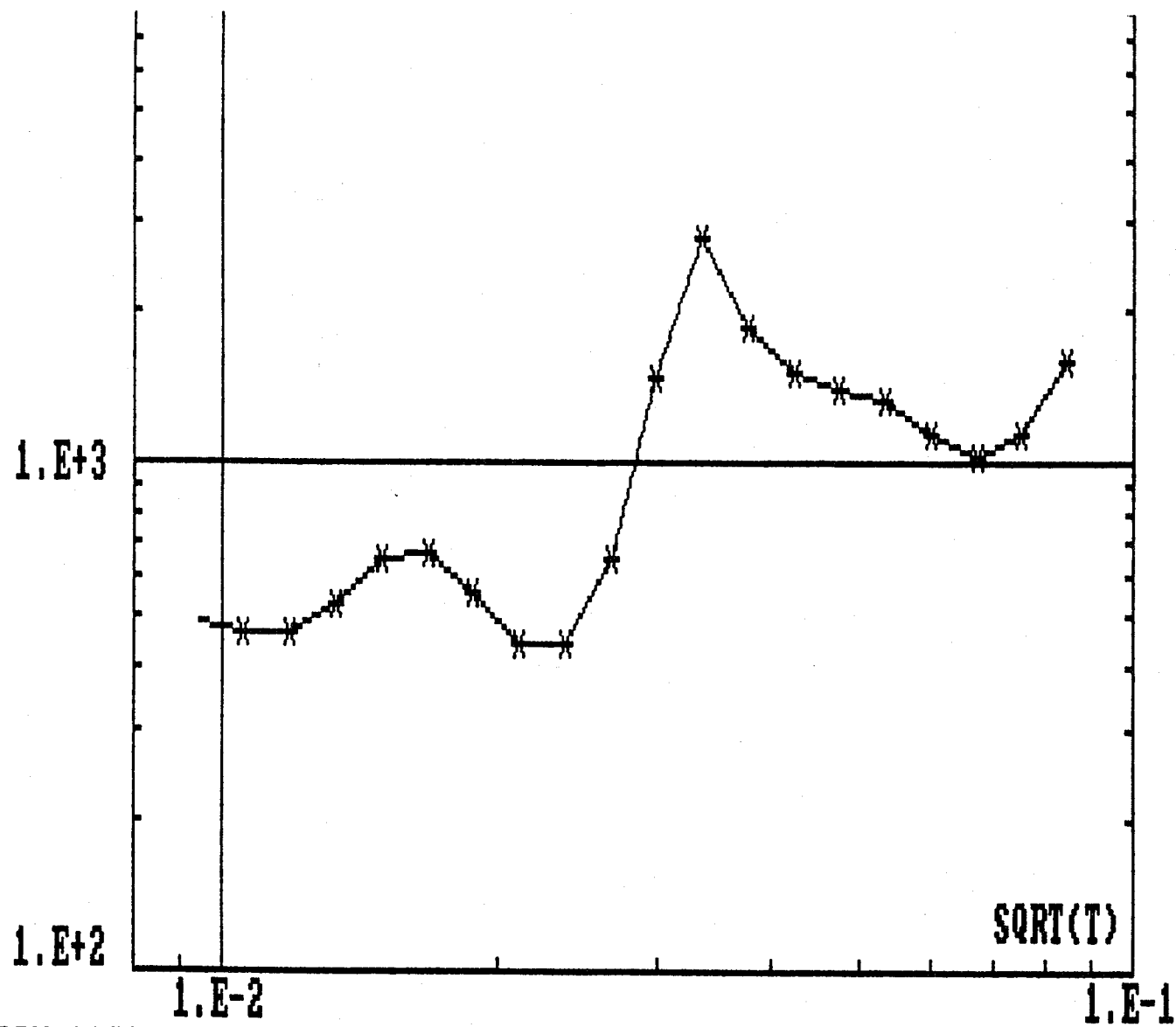
1.E+2

1.E-2

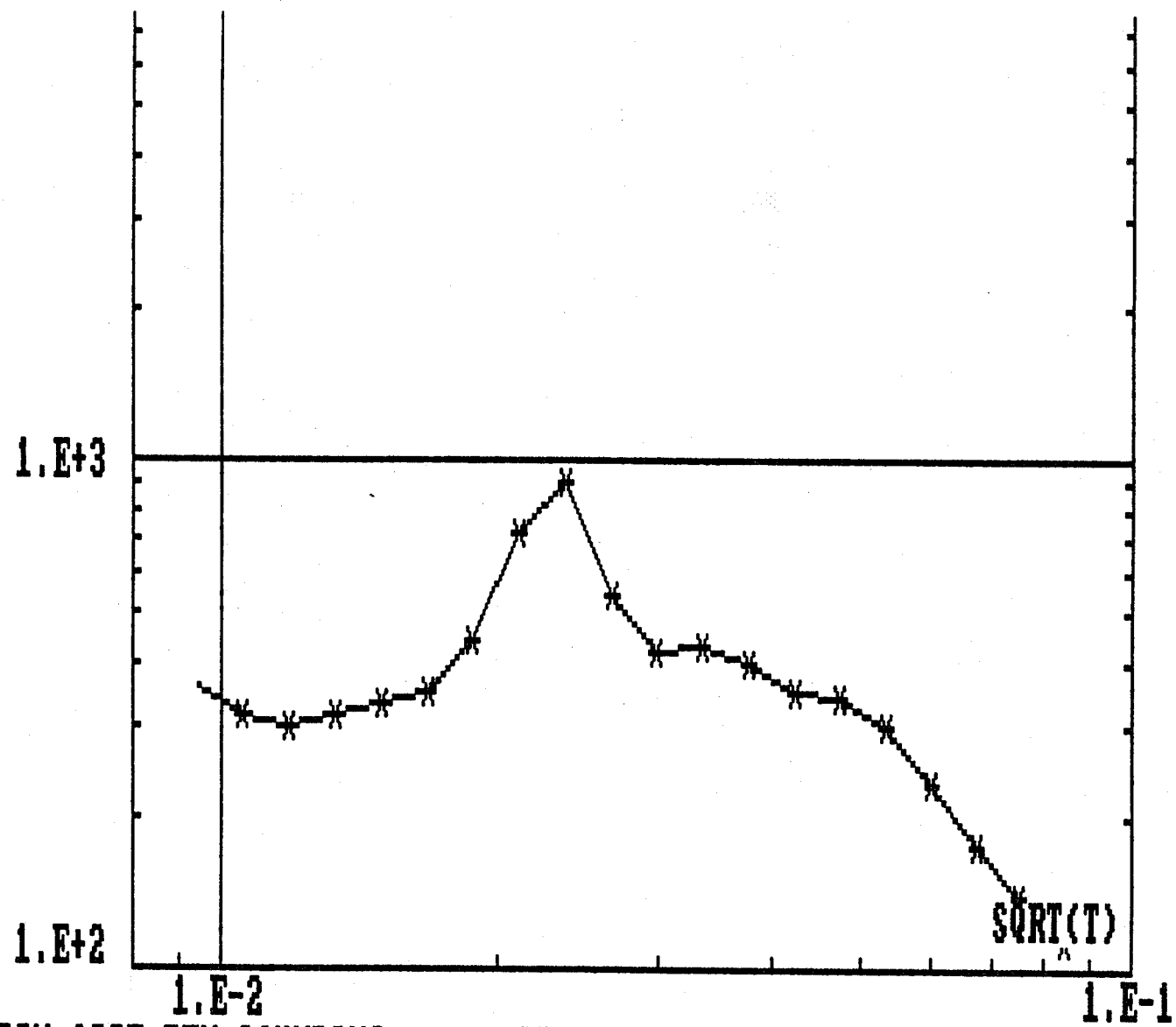
SQRT(T)

1.E-1

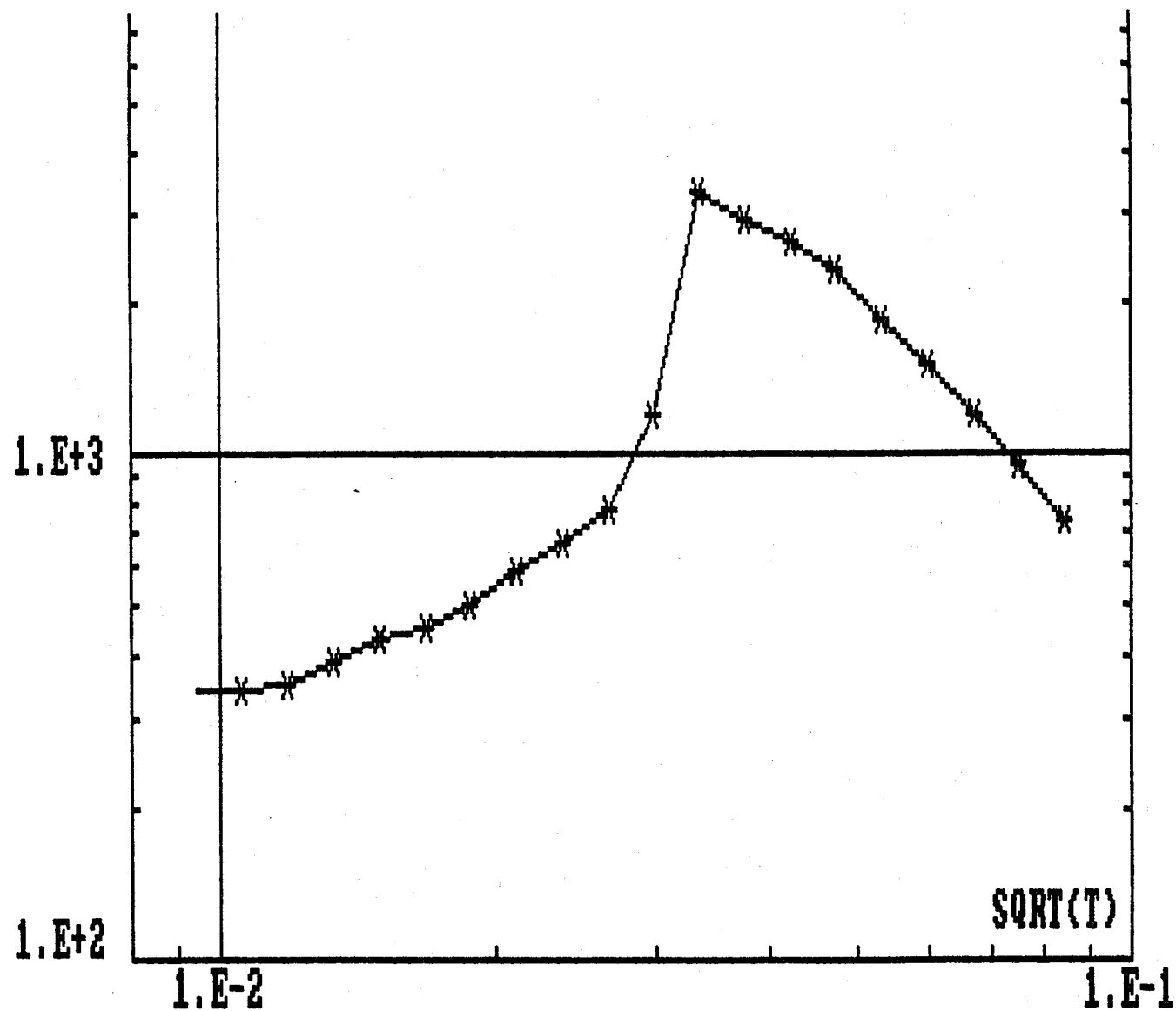




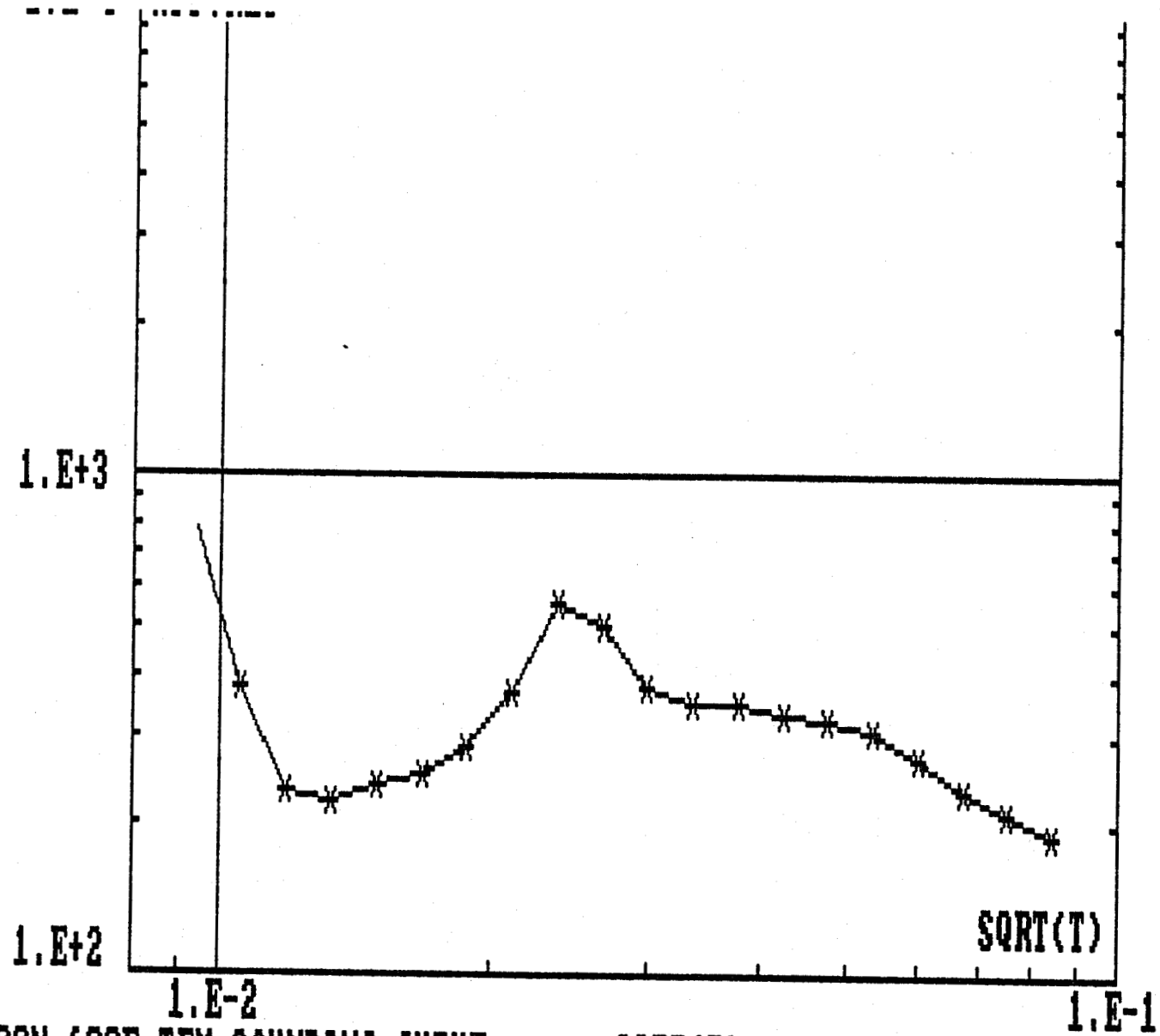
L2600N 1000E TEM SOUNDING pa vs SQRT(T)



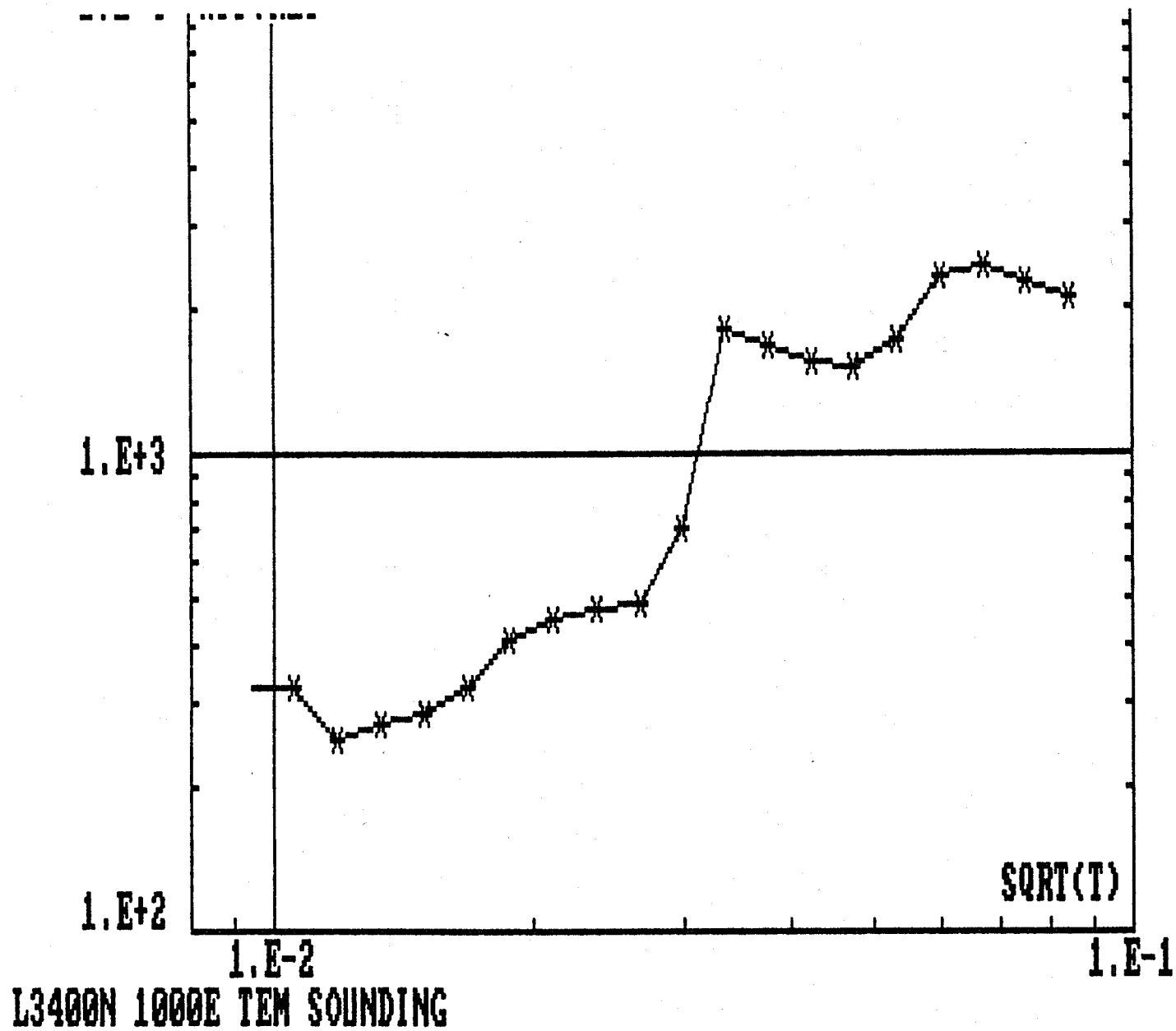
L3000N 600E TEM SOUNDING pa vs SQRT(T)



L3000N 1000E TEM SOUNDING pa vs SQRT(T)



L3400N 600E TEM SOUNDING CURVE pa vs SQRT(T)



OREQUEST

APPENDIX C

INVOICE

757

Exhibit A

October 29, 1987.

Chevron Canada Resources Limited
1900 - 1055 W. Hastings St.
Vancouver, B.C.

INVOICE

Re: EM37 Survey
Goatfell Property, B.C.

For the EM37 Geophysical survey on the above property, completed
September 1987. (Cost analysis attached).

Professional fee	\$14,382.00
Disbursements	34,670.36
Administration & Other Charges	5,356.75
TOTAL	54,409.11 ✓
less: Cash call #1	(16,250.00)
Cash call #2	(32,500.00)
BALANCE DUE	\$5,659.11

Please now remit \$5,659.11 to Orequest Consultants Ltd.

PROJECT	AMOUNT
M586	5659.11
SIGNED	<i>[Signature]</i>
PRINTED	
DATE	
ENTERED	
11/13/87	

Yours truly,
OREQUEST CONSULTANTS LTD.

[Signature]
Robert Lewis
Controller

TERMS: Due upon receipt. Interest charged at 1.5% per month (18% per annum) on
accounts over 30 days.

Appendix C

EXHIBIT A

FILENAME:CHEVBUDG
COST ANALYSIS

CHEVRON RESOURCES LTD. - GOATFELL PROPERTY B.C.
COMPLETED AUGUST 1987

INVOICE

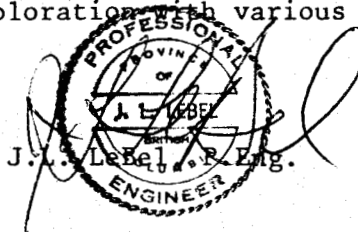
Professional Fees	#	rate	
JUL GP DAYS HENSCHEL	10.00	115.00	1,150.00
JUL GP DAYS LEWIS, T	2.00	150.00	300.00
JUL GP DAYS BERGSTROM	10.00	115.00	1,150.00
JUL MO DAYS LEWIS, T	1.00	150.00	150.00
JUL CH DAYS LEWIS, T	2.00	150.00	300.00
JUL GP DAYS LEWIS, L	1.00	165.00	165.00
JUL TL DAYS LEWIS, L	2.00	165.00	330.00
JUL TL DAYS LEWIS, T	2.00	150.00	300.00
JUL CH DAYS LEWIS, L	2.00	165.00	330.00
AUG GP DAYS HENSCHEL	18.00	115.00	2,070.00
AUG TL DAYS HENSCHEL	1.00	115.00	115.00
AUG GP DAYS BERGSTROM	18.00	115.00	2,070.00
AUG TL DAYS BERGSTROM	1.00	115.00	115.00
JUN WP HRS WILLIAMS	1.50	20.00	30.00
JUL WP HRS WILLIAMS	1.25	20.00	25.00
AUG DP HRS MOORE	7.00	26.00	182.00
AUG GP DAYS LEBEL	11.00	400.00	4,400.00
SEP GP DAYS LEBEL	2.00	400.00	800.00
OCT GP DAYS LEBEL	1.00	400.00	400.00
TOTAL PRO FEE			14,382.00

DISBURSEMENTS	CK/INV	
AIR CANADA	70687	91.00
AMBLESIDE PARK	73187	1,645.66
AMBLESIDE PARK	80687	381.46
AMBLESIDE PARK	71687	2,064.60
AMBLESIDE PARK	72287	1,203.00
BC TEL	81387	107.94
B.C. TELEPHONE COMPANY	71487	28.49
CANA RENTALS	27302	186.64
CANA RENTALS LTD.	2151	994.50
DEAKIN EQUIPMENT LTD.	735589	595.51
DOMINION BLUEPRINT	82787	26.10
DOMINION REPRO		20.07
EDA INSTRUMENTS INC.	21265	1,404.83
GAZELLE COURIERS	132	1.90
J.L. LEBEL	72187	127.82
J.L. LEBEL	72087	60.60
LEBEL EXP.	82507	38.16
MARK BY WORD PROCESSIN	87194	121.50
QUANTECH CONSULT.	1181	25,505.09
TOM LEWIS	71887	44.00
WESTERN REPRODUCERS	83187	21.49

APPENDIX D
STATEMENT OF QUALIFICATIONS

I, J.L. LeBel, of 436 W. 6th Street, North Vancouver, British Columbia hereby certify:

1. I am a graduate of the Queens University (1971) and the University of Manitoba (1973) and hold a BSc. degree in geological engineering and a MSc. degree in geophysics.
2. I am a Professional Engineer registered with the Association of Professional Engineers of British Columbia, Vancouver, British Columbia.
3. I have been employed in mining exploration with various companies since 1972.



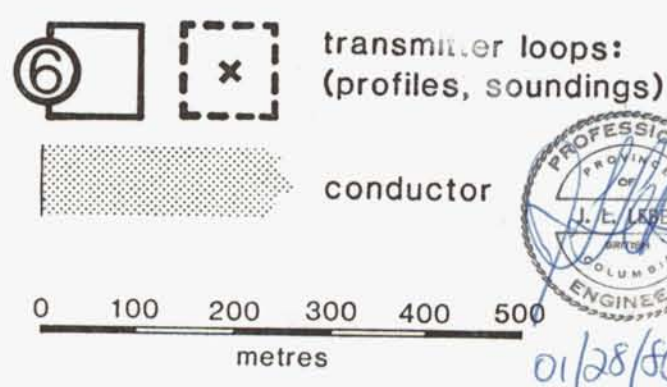
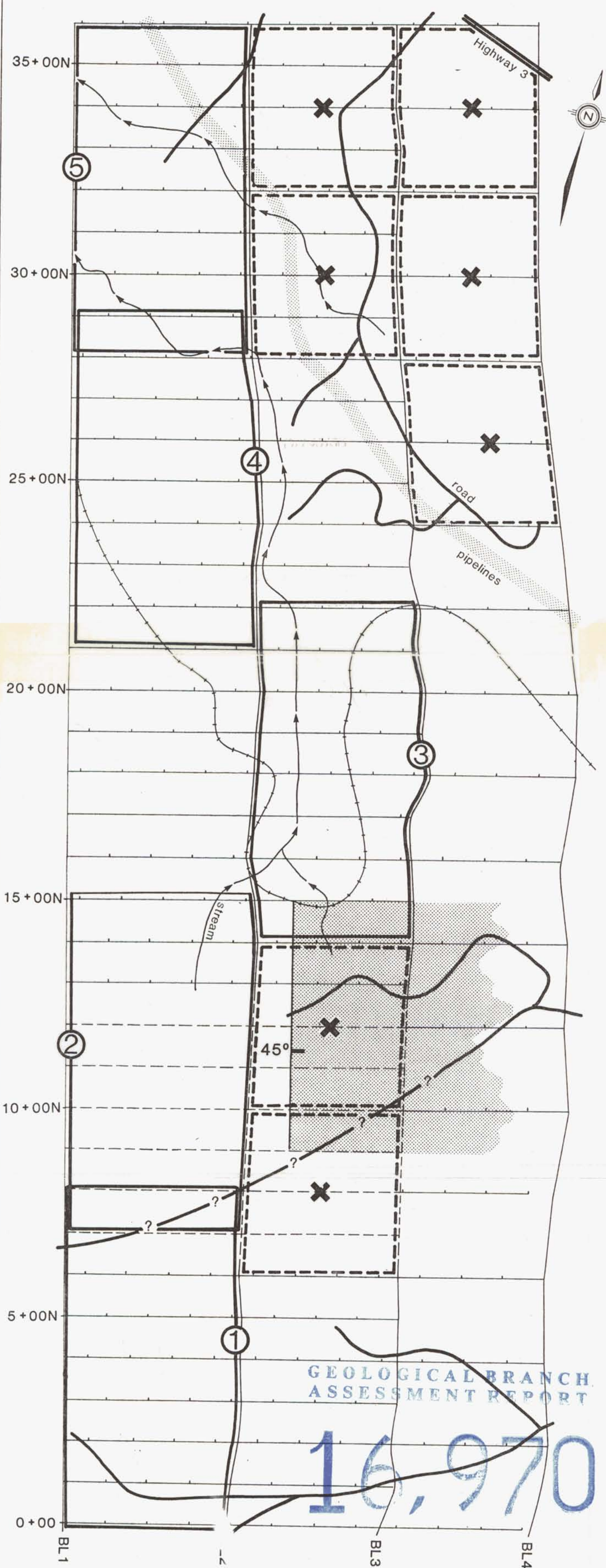
DATED at Vancouver, British Columbia, this 2nd day of February, 1988

APPENDIX E

Assessment Work Credits to be Applied

<u>Claim</u>	<u>Record #</u>	<u>M.D.</u>	<u>No.Units</u>	<u>Claim Record.Date</u>	<u>Expiry Date</u>	<u>Assess.Cr.Applied</u>	<u>New Exp.Date</u>
Goat 1	4007	Nelson	20	Jan.27,1985	Jan.27,1989	4 yrs. - \$16,000	Jan.27,1993
Goat 2	4008	Nelson	20	Jan.27,1985	Jan.27,1989	4 yrs. - \$16,000	Jan.27,1993
Goat 3	2962	Ft.Steele	20	July 2,1987	July 2,1988	3 yrs. - \$ 6,000 2 yrs. - <u>\$ 8,000</u>	July 2,1993
Total Assessment Work Credits Applied						\$46,000	
Total Expenditures					\$54,409.11		
Applied Assessment Work Credits					<u>46,000.00</u>		
Balance					<u><u>\$ 8,409.11</u></u>		

We request the balance of \$8,409.11 be applied to the PAC account of Chevron Minerals Ltd.



PROFESSIONAL
ENGINEER
J. L. JENSEN
COLUMBIA
01/28/88

OREQUEST

CHEVRON CANADA RESOURCES LTD.

Figure 3
GOATFELL PROPERTY

GRID MAP

British Columbia
NTS: 82 F/I

August 1987 Drawing: BJM

British Columbia
NTS: 82 E/1

