



52K14NE0016 2.7182 GERRY LAKE

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REPORT ON MAGNETIC
AND
ELECTROMAGNETIC SURVEYS
GRID 26
GERRY LAKE AREA
DISTRICT OF KENORA, ONTARIO

RECEIVED

SEP 17 1984

MINING LANDS SECTION.

A.P. Prysak

Introduction

A program of magnetic and electromagnetic surveying was carried out in April and May of 1984. Over a group of 42 claims in the Gerry Lake area of Northwestern Ontario.

Two grids were cut with a common baseline but separated by 2800 feet. Lines were cut at 400 foot intervals with stations chained and picketed every 100 feet.

The South Bay road touches onto both the east and west grids.

Previous Work

Caravelle Mines carried out some follow-up work to an airborne EM survey in 1969, including two drill holes on the west grid.

Erzgesellschaft M.B.H. carried out geological mapping, geophysical surveying and diamond drilling over the area of the east grid and the east portion of the west grid in 1970.

General Geology

The long trend conductor that is identified from AEM survey data and extends from the vicinity of the Dixie 18 prospect eastward to the area of Gerry Lake, passes through the north part of the claim group and grid. The conductor consists of pyrite-pyrrhotite mineralization within a thin unit of calcareous and graphitic sediments. The predominant volcanic lithology consists of basalt. Although no geological mapping was carried out over the grids, assessment data shows that minor interflow sediments and intermediate to felsic tuffs also occur within the section.

Magnetometer Survey Results

A positive magnetic anomaly extends across the north part of both the east and the west grids. Two peaks are actually identified on the west grid. This dominant magnetic feature is coincident with the long trend AEM anomaly discussed in the previous section. Parts of the magnetic anomaly are also coincident with a HLEM conductor. These sections are likely due to pyrrhotite mineralization. Other parts of the long-trend anomaly are not associated with HLEM conductors and magnetic expression due to minor magnetite, either in basalts or in interflow sediments.

Less prominent magnetic anomalies occur in the south part of the grid. These are likely due to minor pyrrhotite or magnetite associated with sedimentary or pyroclast units.

Electromagnetic Survey Results

A strong conductor was identified on line 1600W and 2100N. It extends onto line 2000W and east to line zero. A strong magnetic anomaly coincides with the conductor. An old drill site was found on line zero and 2250N. This site corresponds to DDH JW-6 and the Caravelle work carried out in 1969. The conductor is due to pyrite-pyrrhotite and graphite within a metasedimentary unit.

A second very strong conductor occurs at 1800N on Line 1600E. It extends east to line 2400E but here it is identified as a weak feature. This conductor is also associated with a strong magnetic expression and is situated near Caravelle's old drill hole JW-3. This drill hole intersected massive pyrite-pyrrhotite mineralization associated with a thin horizon of marble.

A conductor with a strong quadrature signature extends from line 2800E to 4000E at approximately 1500N. It has a strong coincident magnetic anomaly and would appear to be stratigraphically to the south of the sulphides-in-marble conductor described above. The conductor lies in a low topographic level and the quadrature is likely enhanced by conductive overburden. A longer cable and lower frequency survey by Max-Min is recommended to check the validity of the conductor.

A strong conductor on line 5600E and 1800N has no correlation with any anomalous magnetic response and is likely due to graphitic sediments.

A weak conductor extends from 1400N on line 1200E to 1700N on line 4000E. The conductor has a coincident magnetic expression of 200 to 800 gammas above background.

Three drill holes are reported in assessment files (Erzgesellschaft, 1970). However, these were not located in the field due to the open nature of the bush or swamp, making it difficult to identify winter roads and drill set-ups. The drill logs mention only minor amounts of sulphide mineralization, insufficient to form conductors. Also core angles are generally less than 45° to core axis, averaging 35° .

The conductor is likely due to pyrite-pyrrhotite mineralization associated with marble or graphitic sediments.

A conductor with a strong quadrature response is situated immediately to the north of the baseline from 700E to 2400E. This conductor is coincident with a positive magnetic anomaly and lies in an area of open swamp. A low frequency, long cable survey by Max-Min is recommended to check the validity of the conductor as being due to bedrock responses.

A moderate conductor on line 3200E and 600N is approximately on the same stratigraphic position on the previous conductor. A drill set was located on 3700E and 475N. A northeast drill hole would have tested the conductor. However, none of the assessment files show a drill hole in this location.

Conclusions and Recommendations

The conductor immediately to the north of the baseline on lines 400E to 2400E, inclusive does not appear to have been tested to date.

Also, the conductor north of the South Bay Road that extends east of line 1200E and tested by drill holes 70-1, 2 and 3 by Erzgesellschaft in 1980, appear to have been drilled down-dip. Further field check to locate old drill collars is recommended.

The conductor at 1600N that extends between lines 2800E and 4000E should be re-surveyed with a longer cable and lower frequency Max-Min unit.



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REPORT ON
PULSE ELECTROMAGNETIC SURVEYS
PROPERTY NO.'s 18 & 21
South Bay - Dixie Area, Ontario
N.T.S. 52 K/14

September, 1984

BP-Selco
Arnis Gubins

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- SB. 3767 P.18 Crone Geophysics - Deepem Loop Locations (2 of 2)
- SB. 3815 P.21 Crone Geophysics - Deepem Loop Locations

1.0 Summary

The pulse-EM surveys revealed some targets that have not previously been identified. Three diamond drill-holes are recommended to test these features.

2.0 Introduction

The pulse electromagnetic surveys were undertaken on selected portions of the Dixie project claim groups in the hopes of verifying weak airborne INPUT responses as being due to deep bedrock sources. The claims have previously been surveyed by Selco in the 70's using horizontal loop electromagnetic equipment (Geonics EM-17 and Apex Max-Min II) and total-field or fluxgate magnetometers.

3.0 Location and Access

The properties are located approximately 30 km north of Ear Falls, Ontario. Access to the area is afforded by the South Bay Road from Ear Falls, which passes through the middle of property 21.

4.0 Pulse Electromagnetic Survey

The properties were surveyed from Feb. 27 to March 24, 1984 under contract by CRONE Geophysics of Mississauga, Ont. The principle operator was Phil Hembruff. The equipment used consisted of a Crone PEM (pulse electromagnetic) receiver and a Crone Hi-Power (2000 Watt) transmitter driven by a motor generator. The survey configuration was in the DEEPEM mode (Turam), where lines are read perpendicular to the long side of the transmitter loop. The loop sizes used during the surveys were nominally 1000 x 2000 feet. Both the vertical and horizontal components of the secondary field induced in the receiver were read at all stations using all 8 channels.

4.1 Property 18

The coverage of the survey is shown on plan maps SB.3727 and SB.3767. Three transmitter loops were used to obtain coverage for 48,700 line-feet of survey and a total of 487 stations were read. Profile plots of the data along each line for both the horizontal and vertical components are presented in Appendix A. The inferred conductor axes are indicated on the plan maps.

4.2 Property 21

The coverage of the survey is shown on plan map SB.3815. One transmitter loop was used to obtain coverage for 22,900 line-feet of survey and a total of 229 stations were read. Profile plots of the data along each line for the horizontal and vertical components are presented in Appendix B. The inferred conductor axes are indicated on the plan map.

5.0 Conclusions and Recommendations

The following drill holes are recommended to test some of the features observed with the PEM survey.

Property 18 DDH-18-25 (28E, 15S) @ -60° N for 900 ft.
DDH-18-26 (40E, 37S) @ -50° N for 400 ft.

Property 21 DDH HO-37 (82+50E, 4+25S) @ 150° az. (-60°) for 800 ft.

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APPENDIX A

Property 18

Pulse - EM profiles

APPENDIX B

Property 21

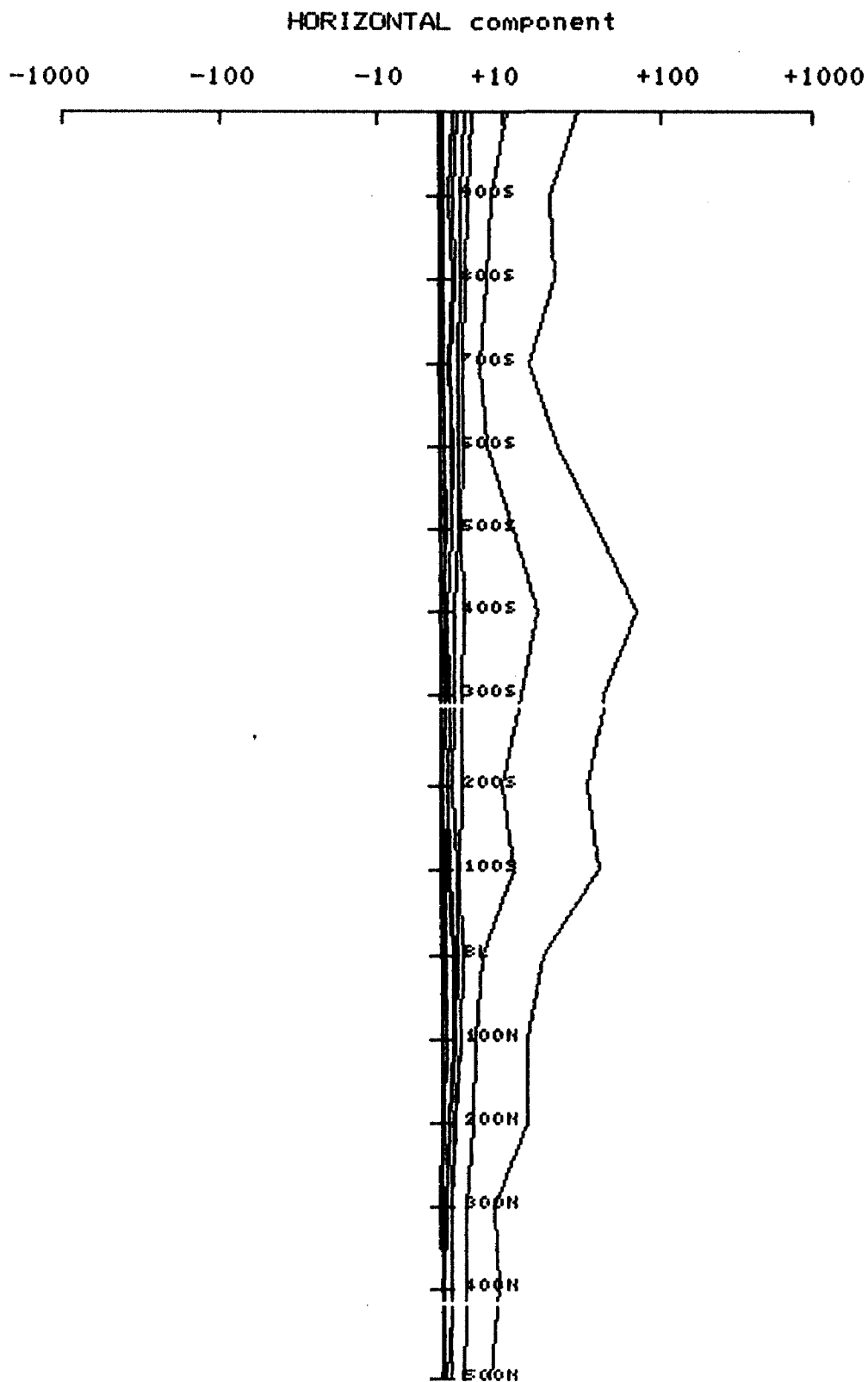
Pulse - EM Profiles

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DEEPEM

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150-21 11 8+00 W

Scale: 1in= 200ft

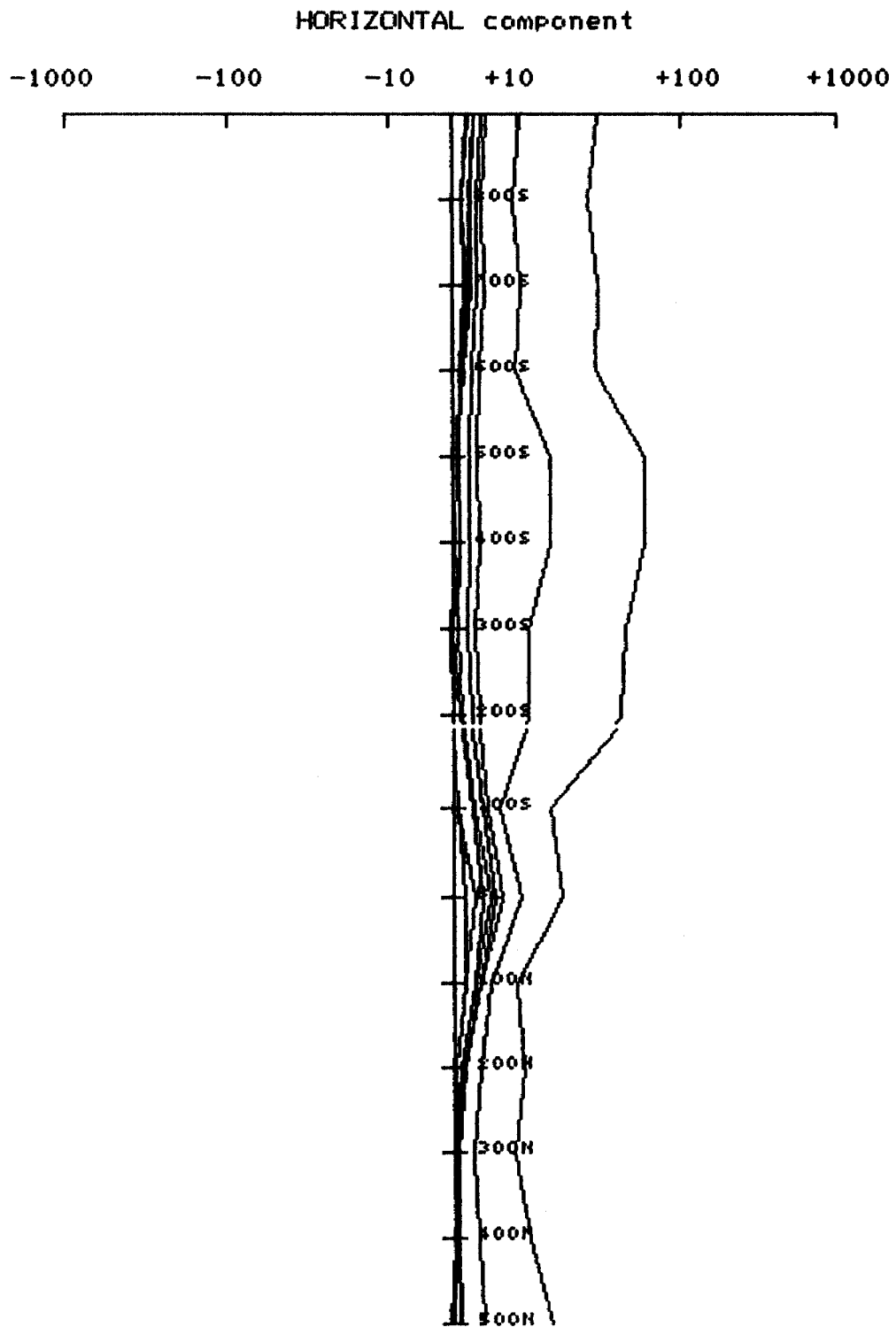


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Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
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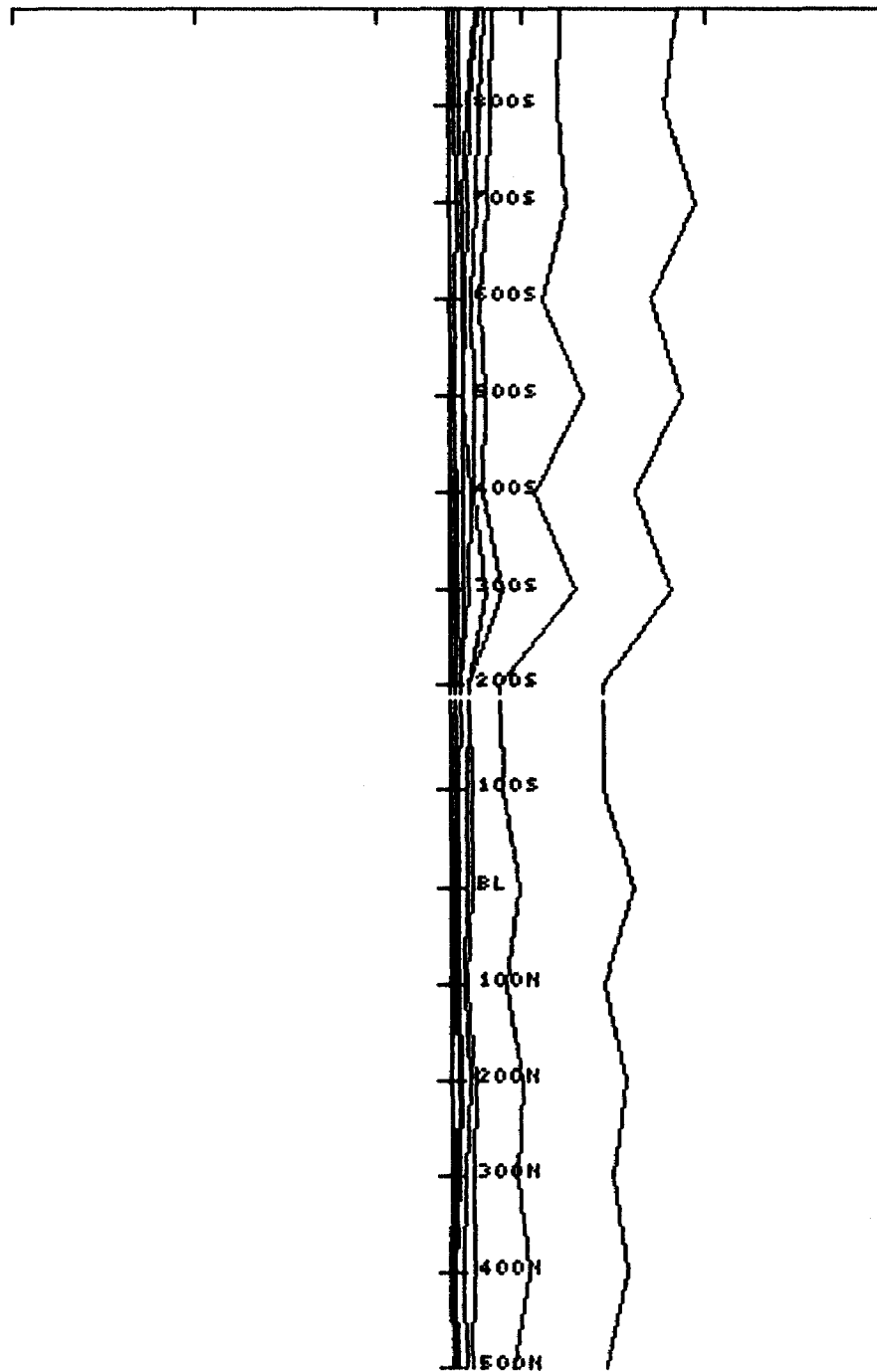
TX
11

LINE
20+00W

Scale: 1in= 200ft

HORIZONTAL component

-1000 -100 -10 +10 +100 +1000



CRONE GEOPHYSICS LIMITED
DEEPEM

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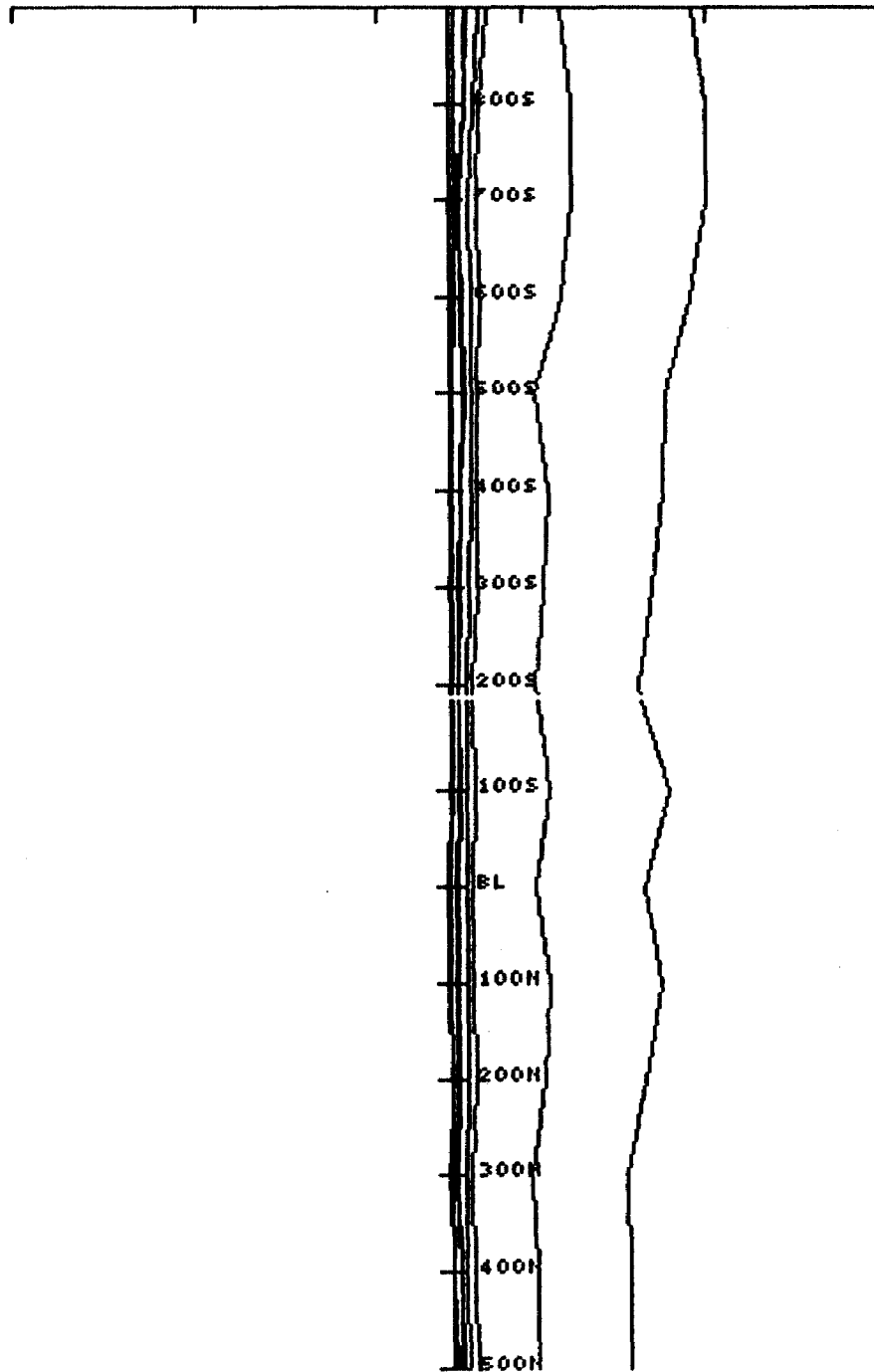
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LINE
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HORIZONTAL component

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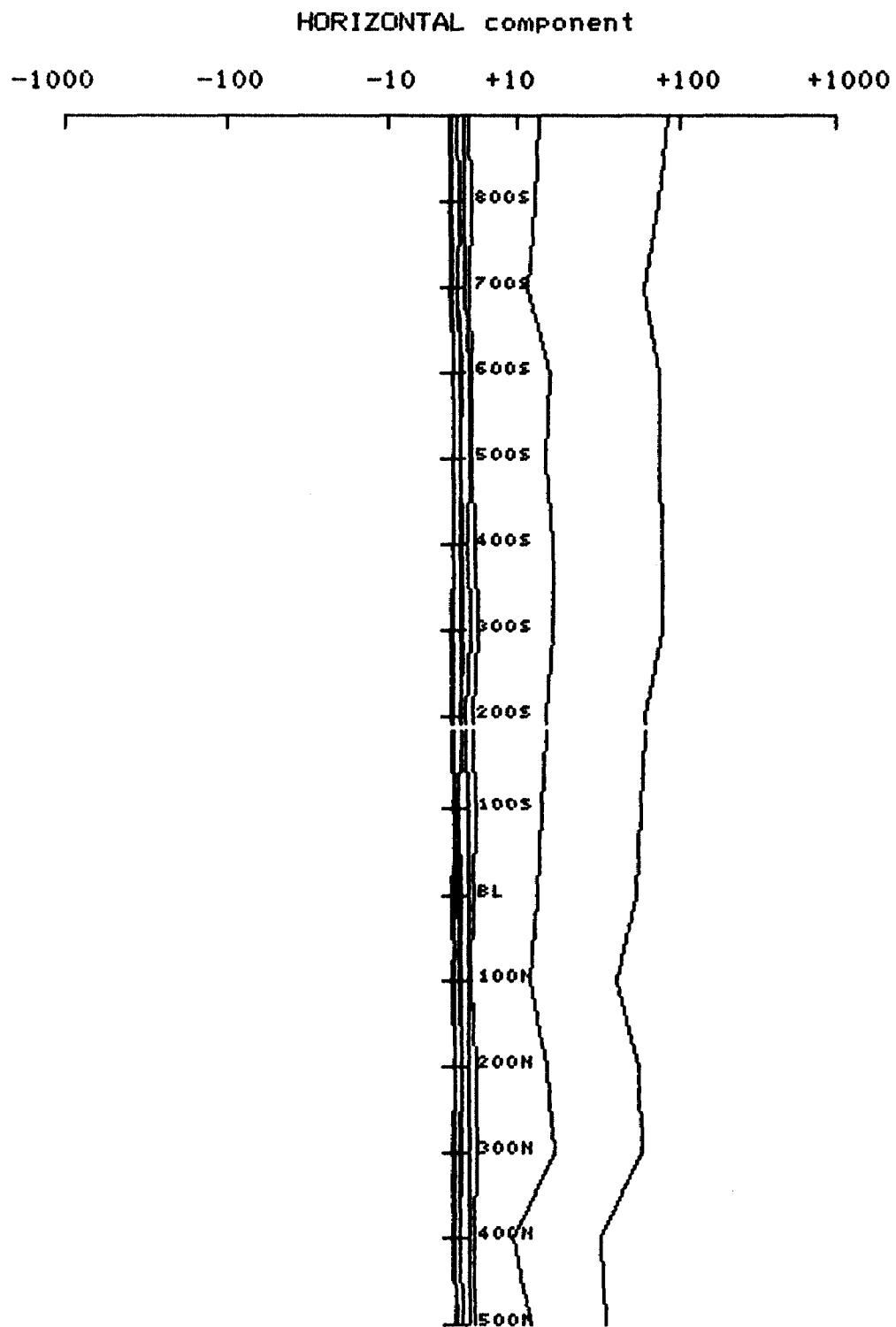


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Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
DEEPEM

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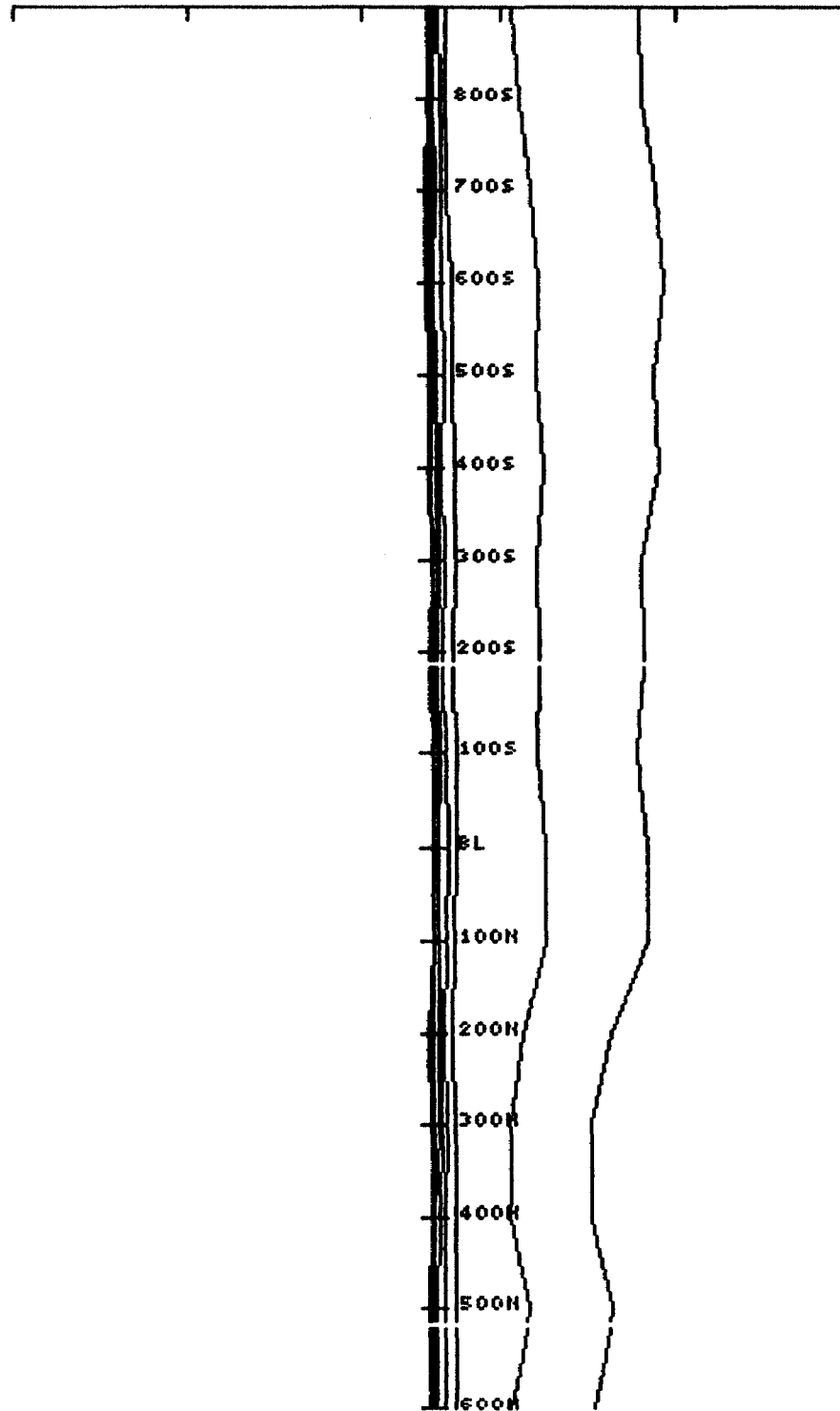
TX
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LINE
32+00W

Scale: 1in= 200ft

HORIZONTAL component

-1000 -100 -10 +10 +100 +1000



CRONE GEOPHYSICS LIMITED
DEEPEM

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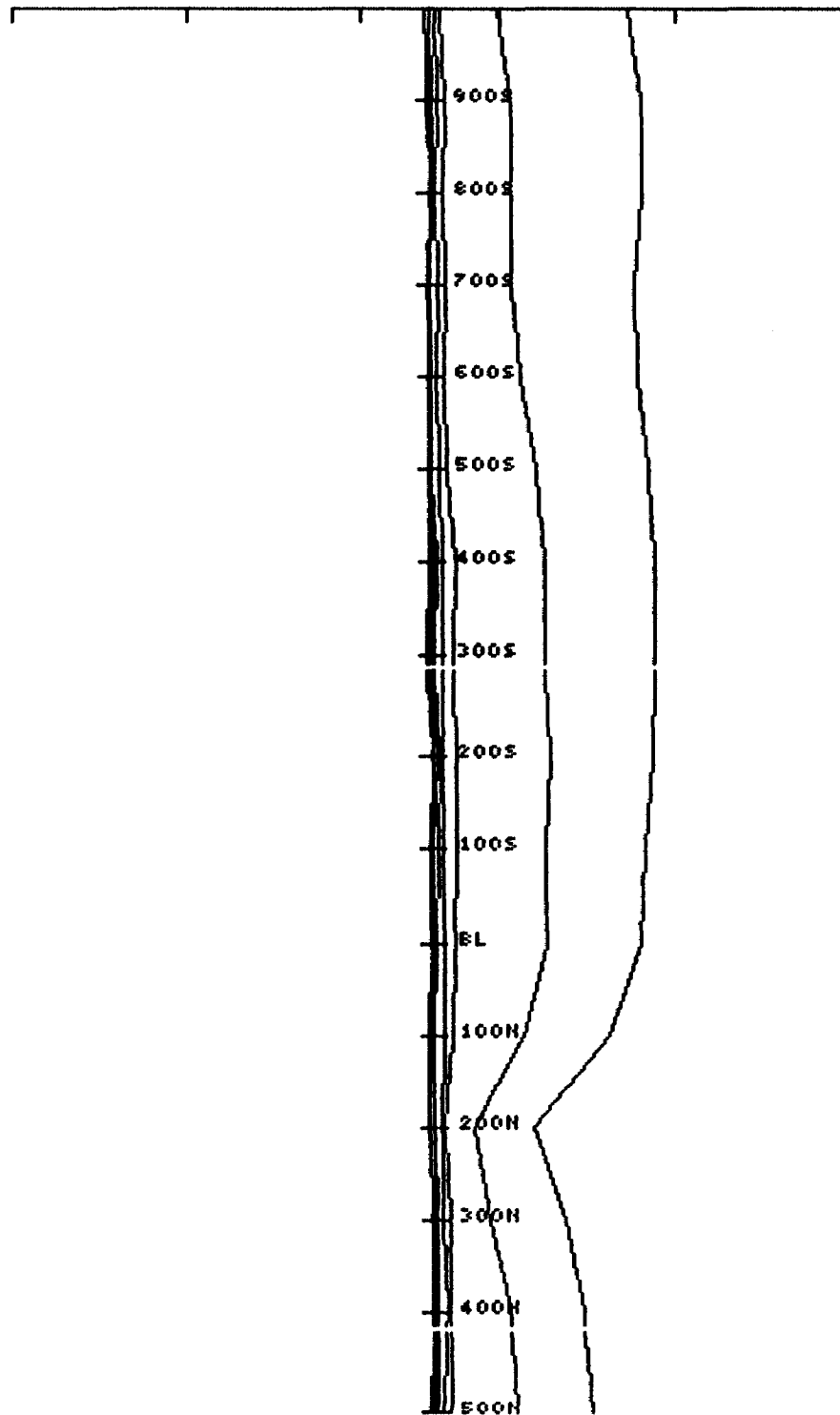
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36+00W

Scale: 1in= 200ft

HORIZONTAL component

-1000 -100 -10 +10 +100 +1000



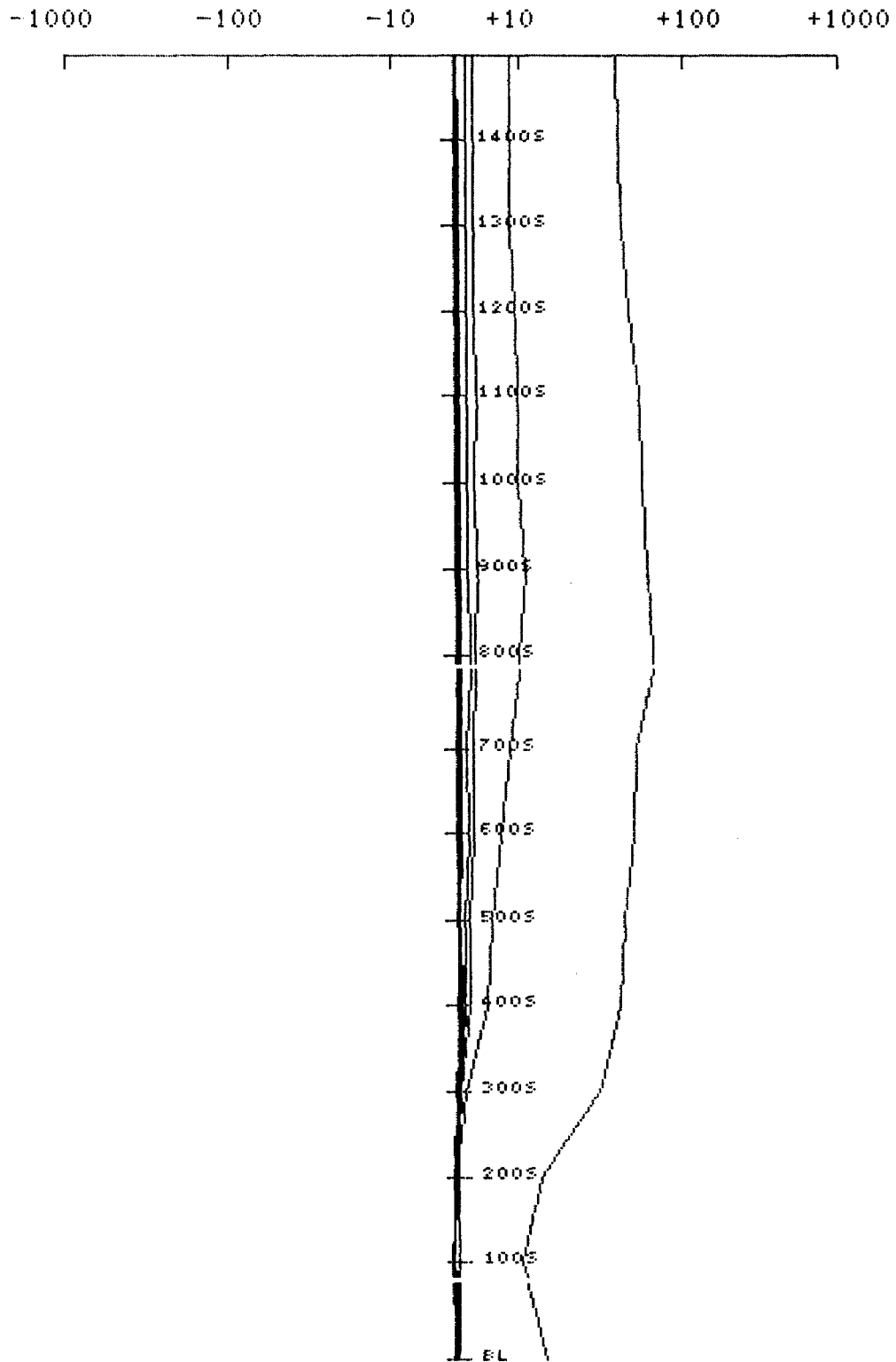
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HORIZONTAL component

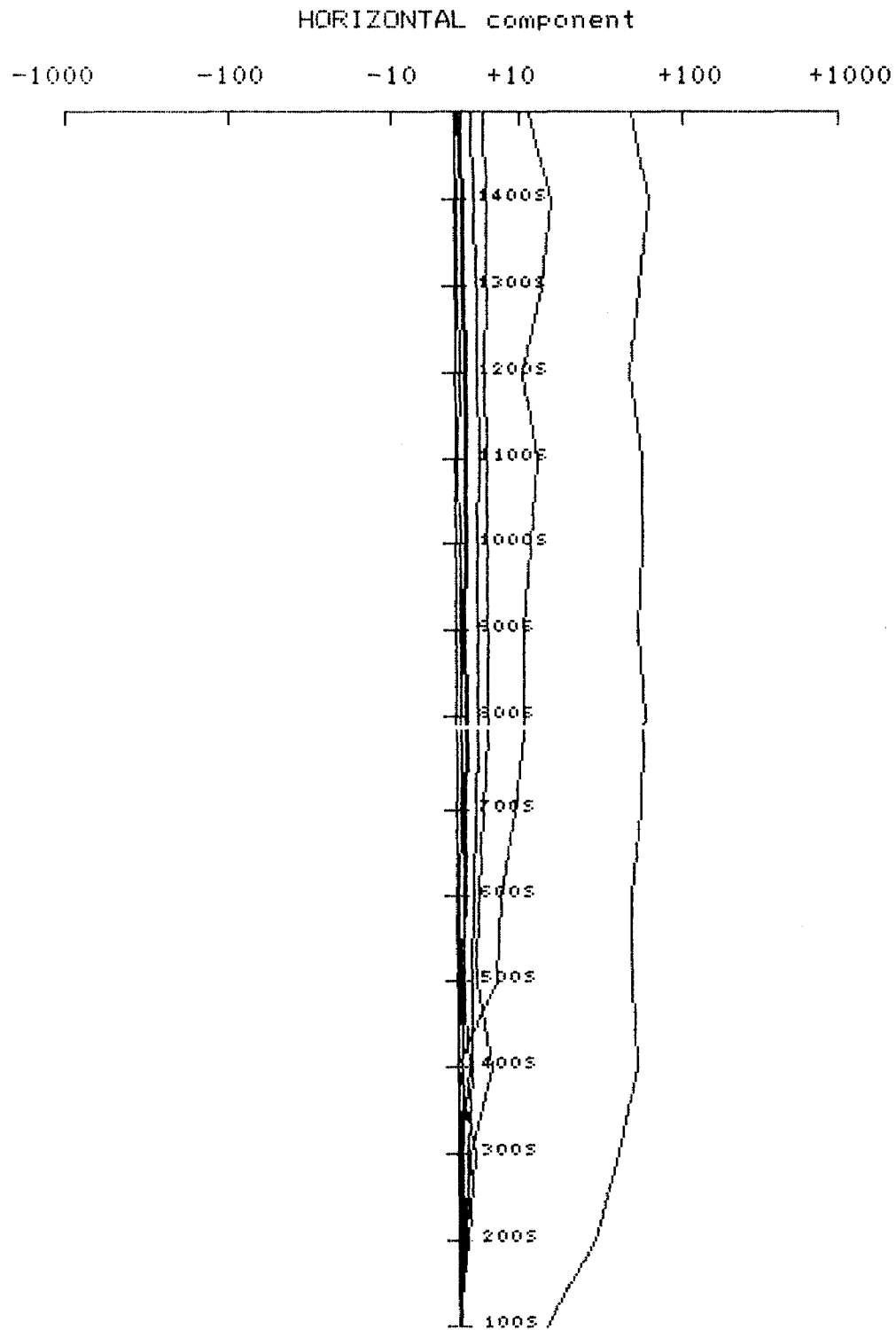


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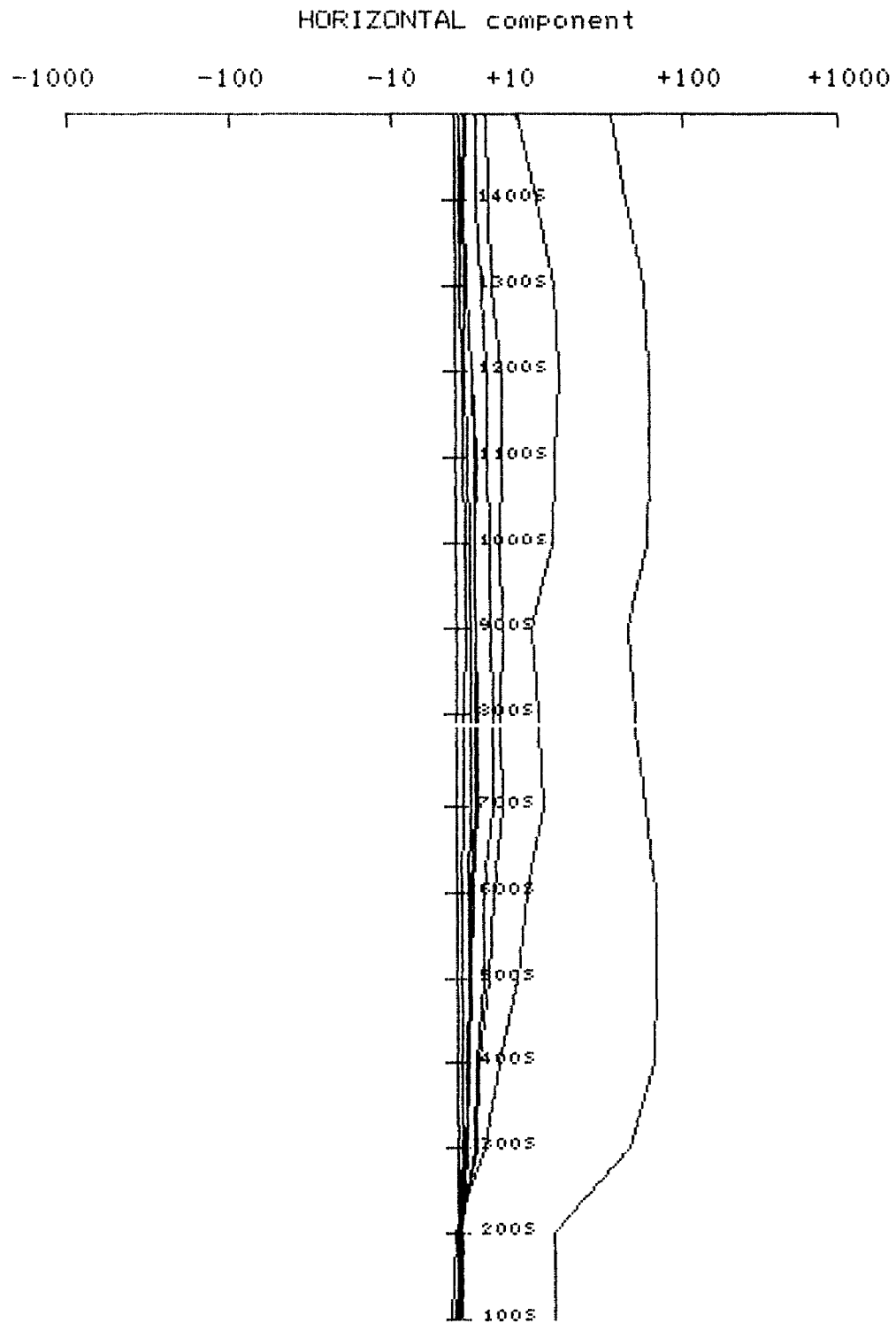


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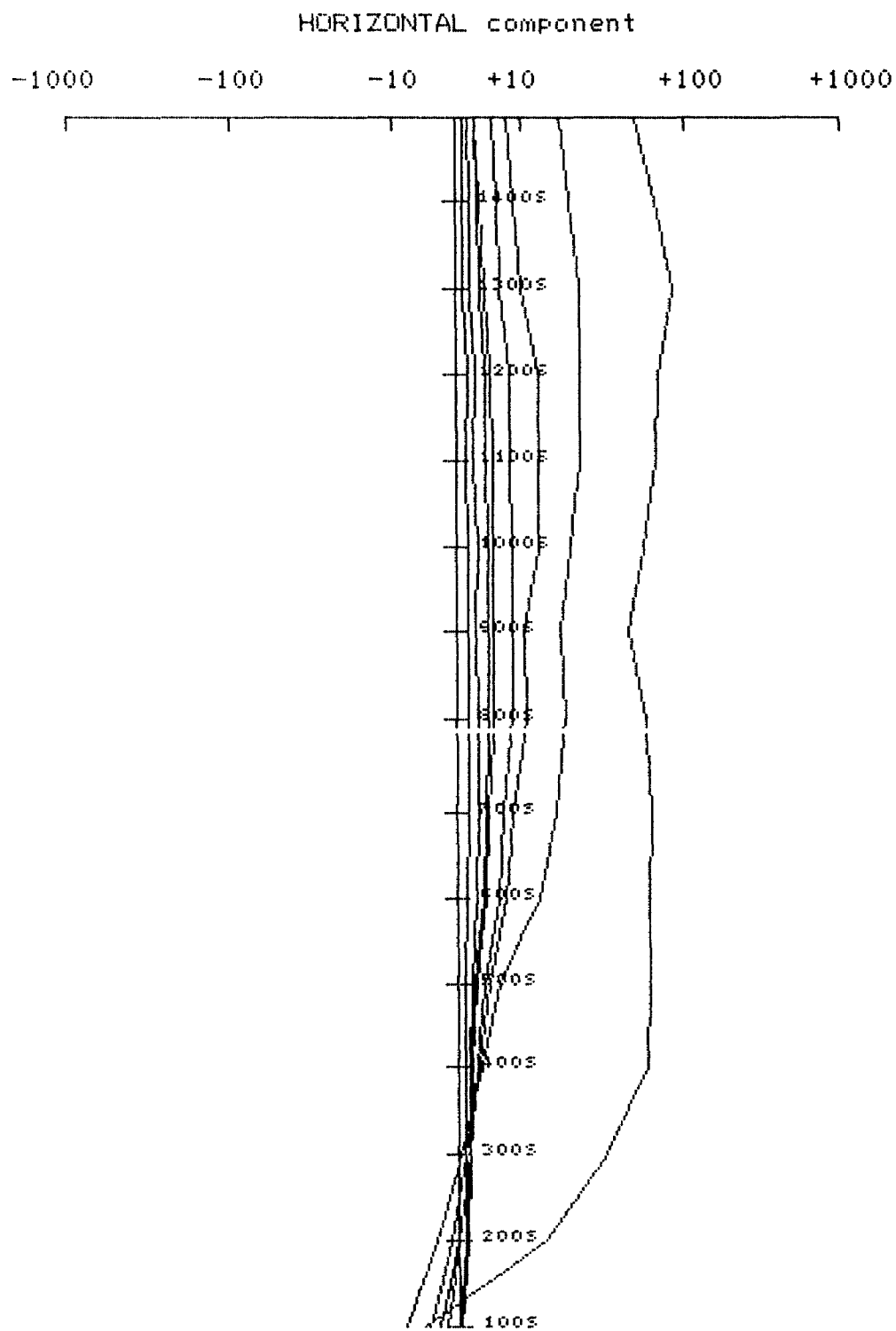


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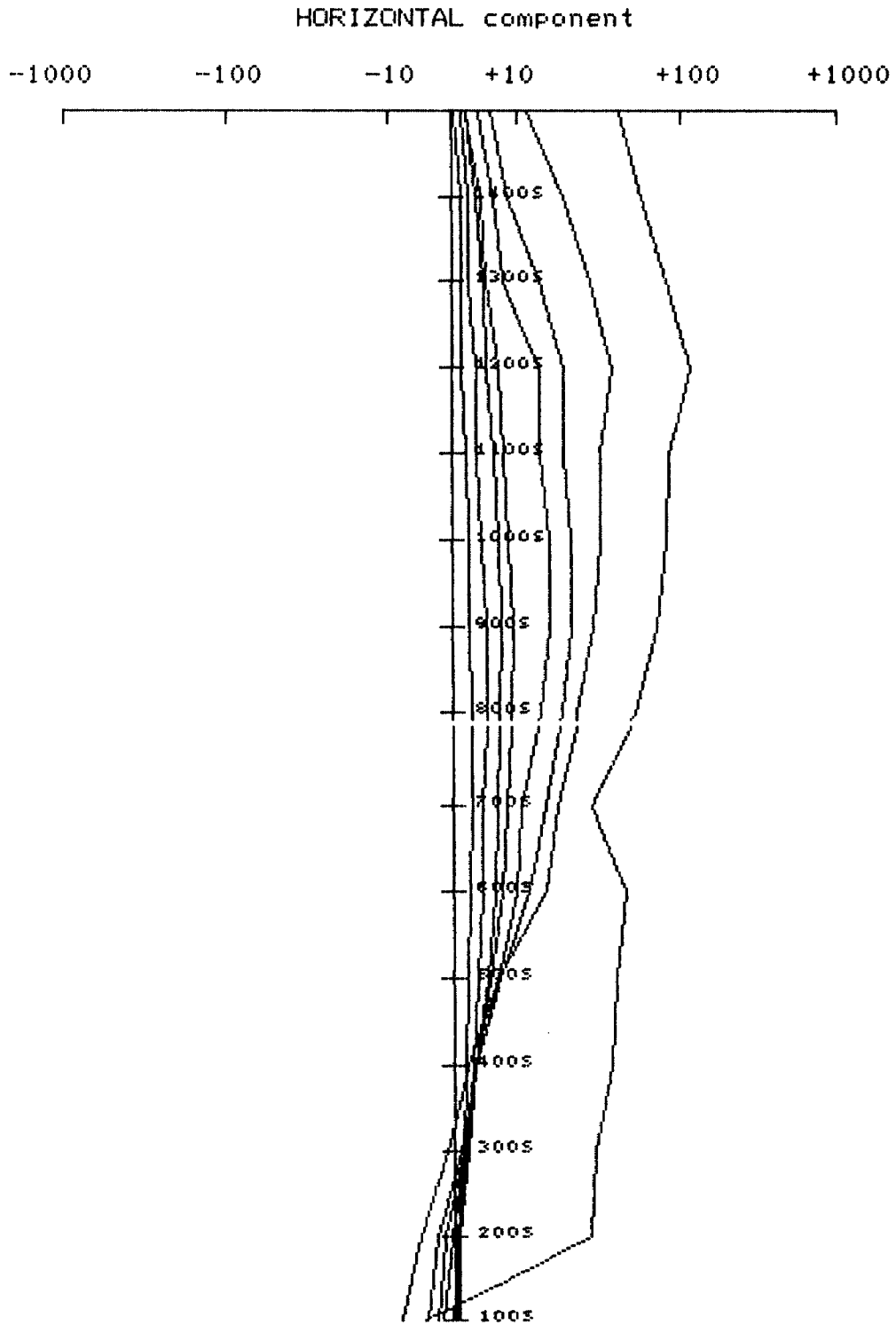


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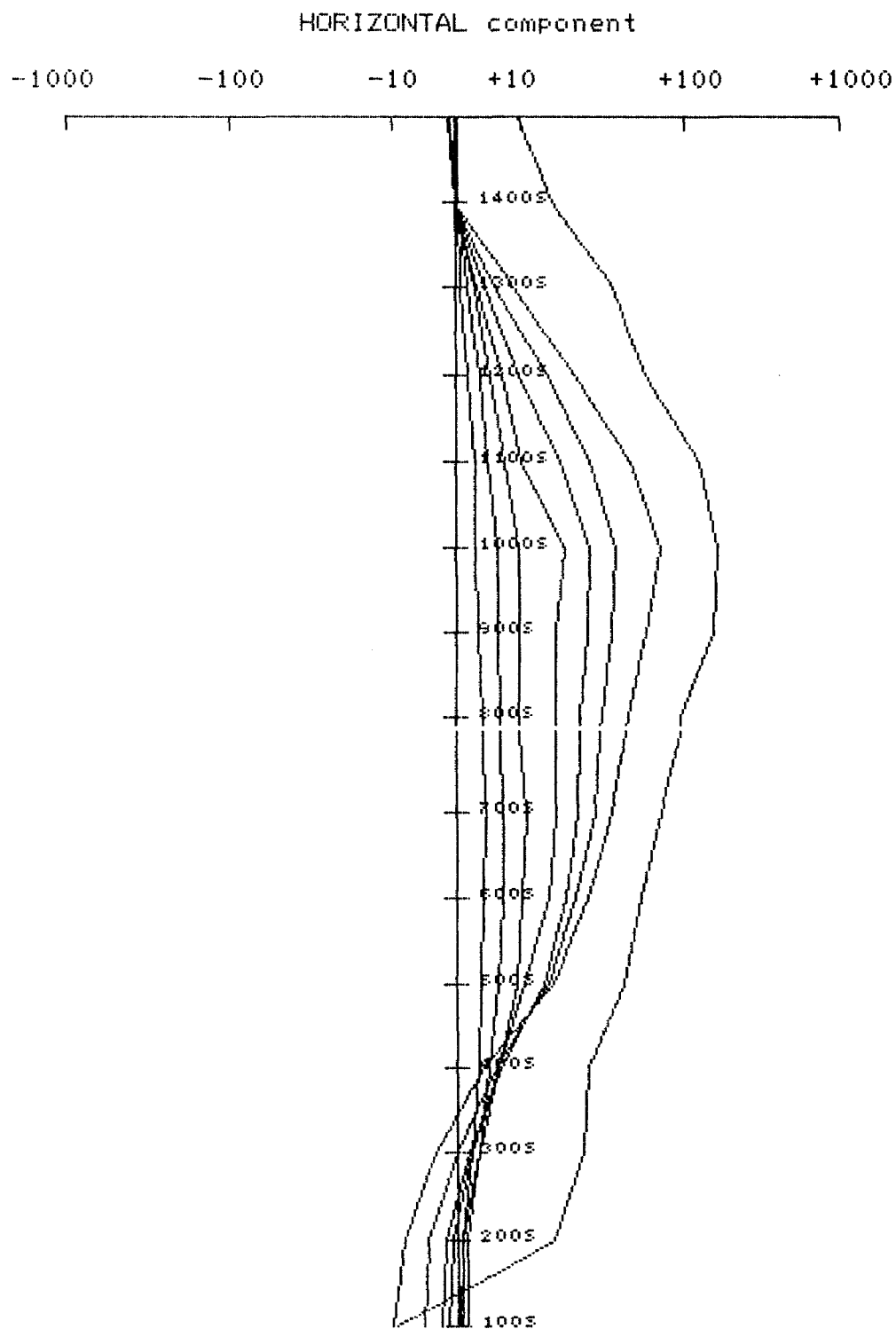


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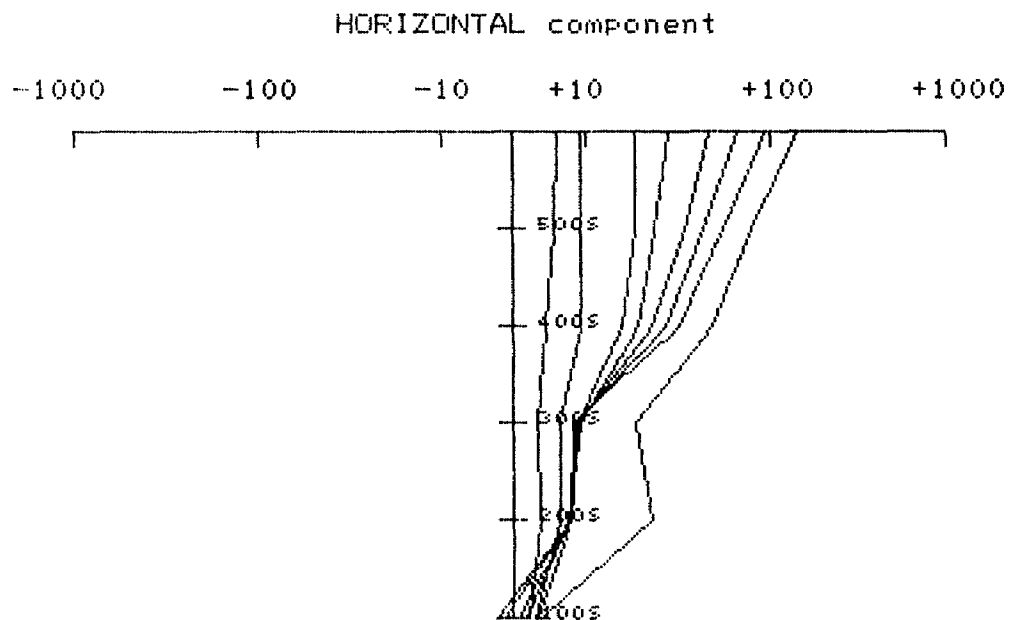


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GRID TX LINE
150-21 11 87+00E

Scale: 1in= 200ft



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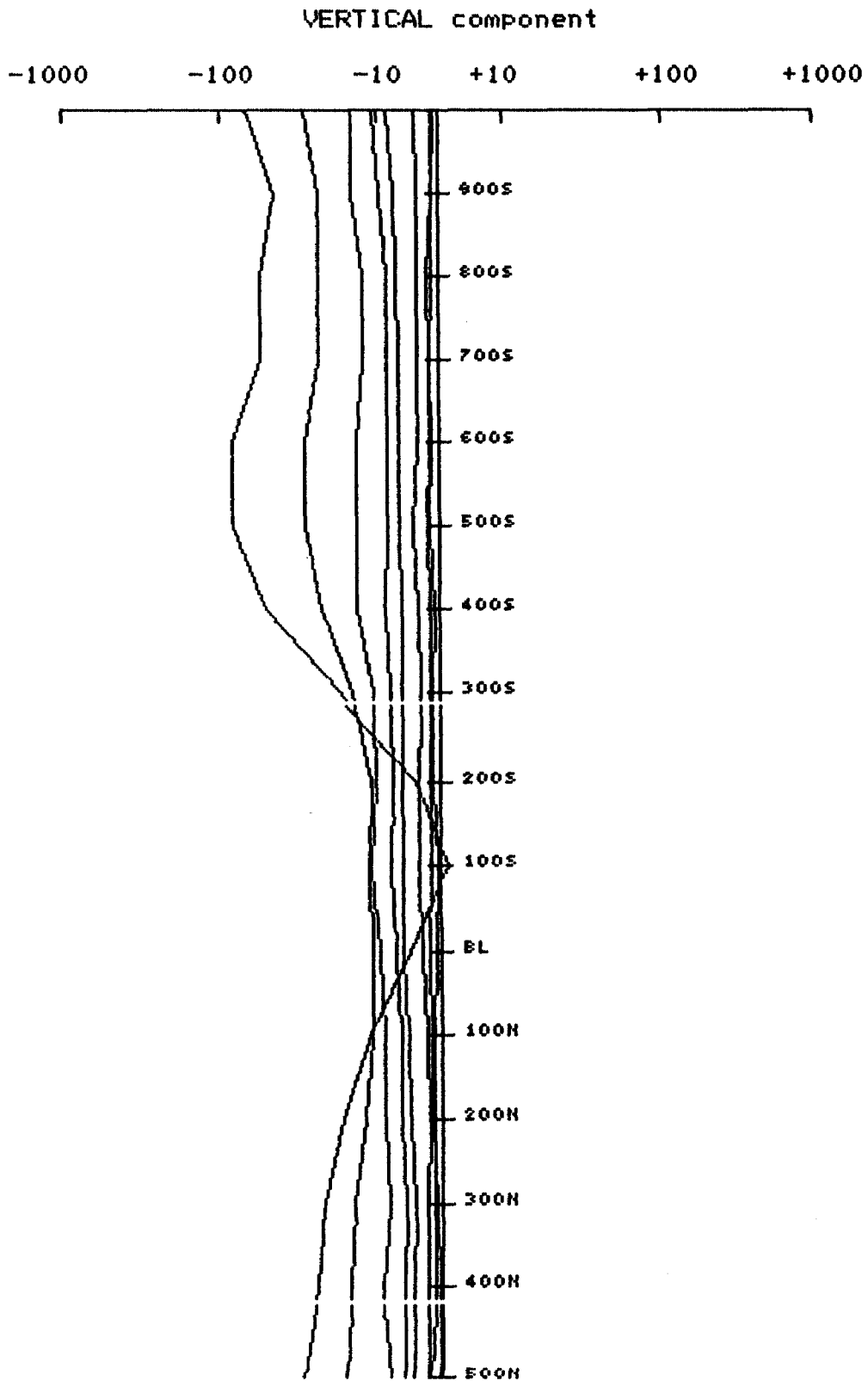
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150-21

TX
11

LINE
8+00 W

Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
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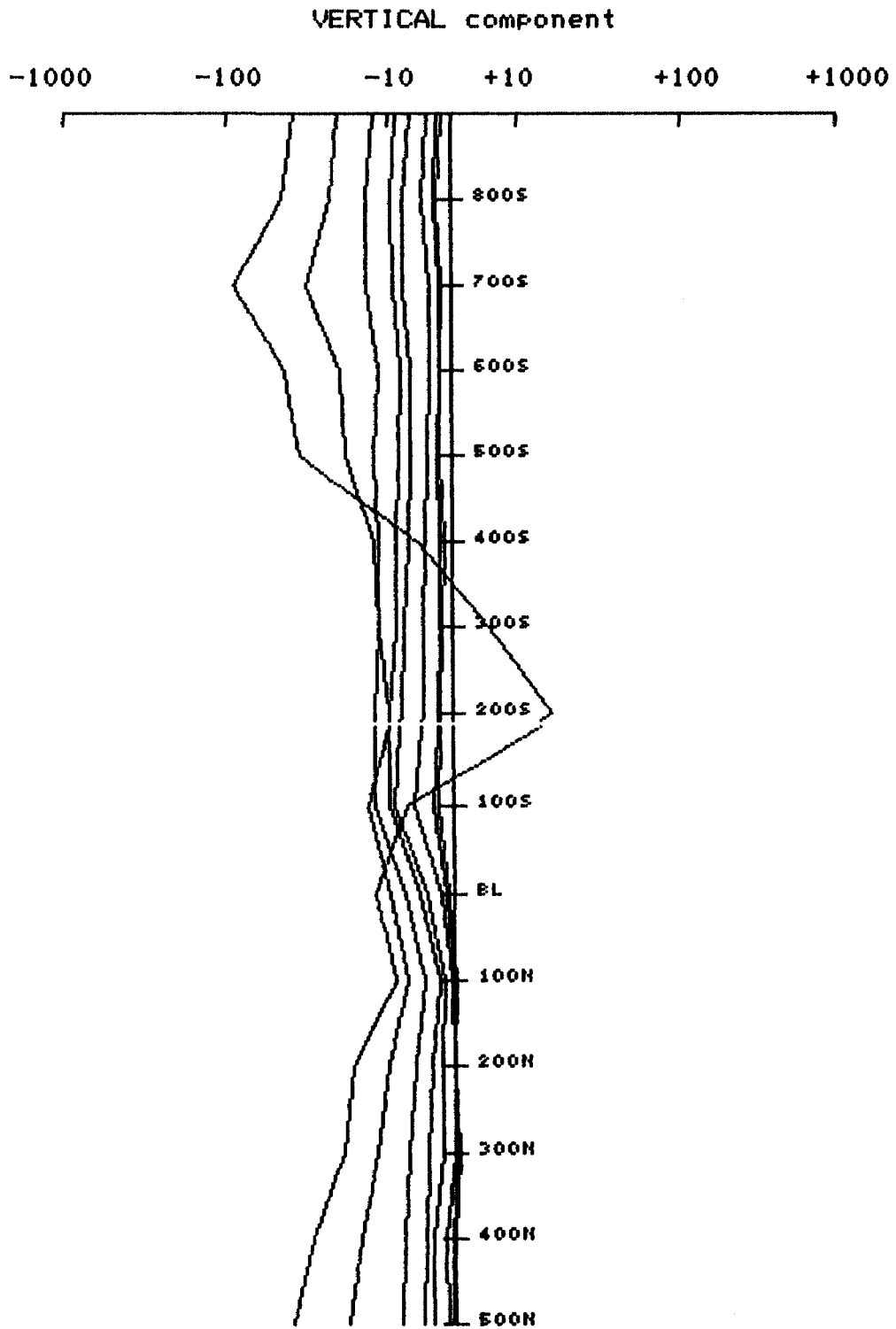
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150-21

TX
11

LINE
12+00W

Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
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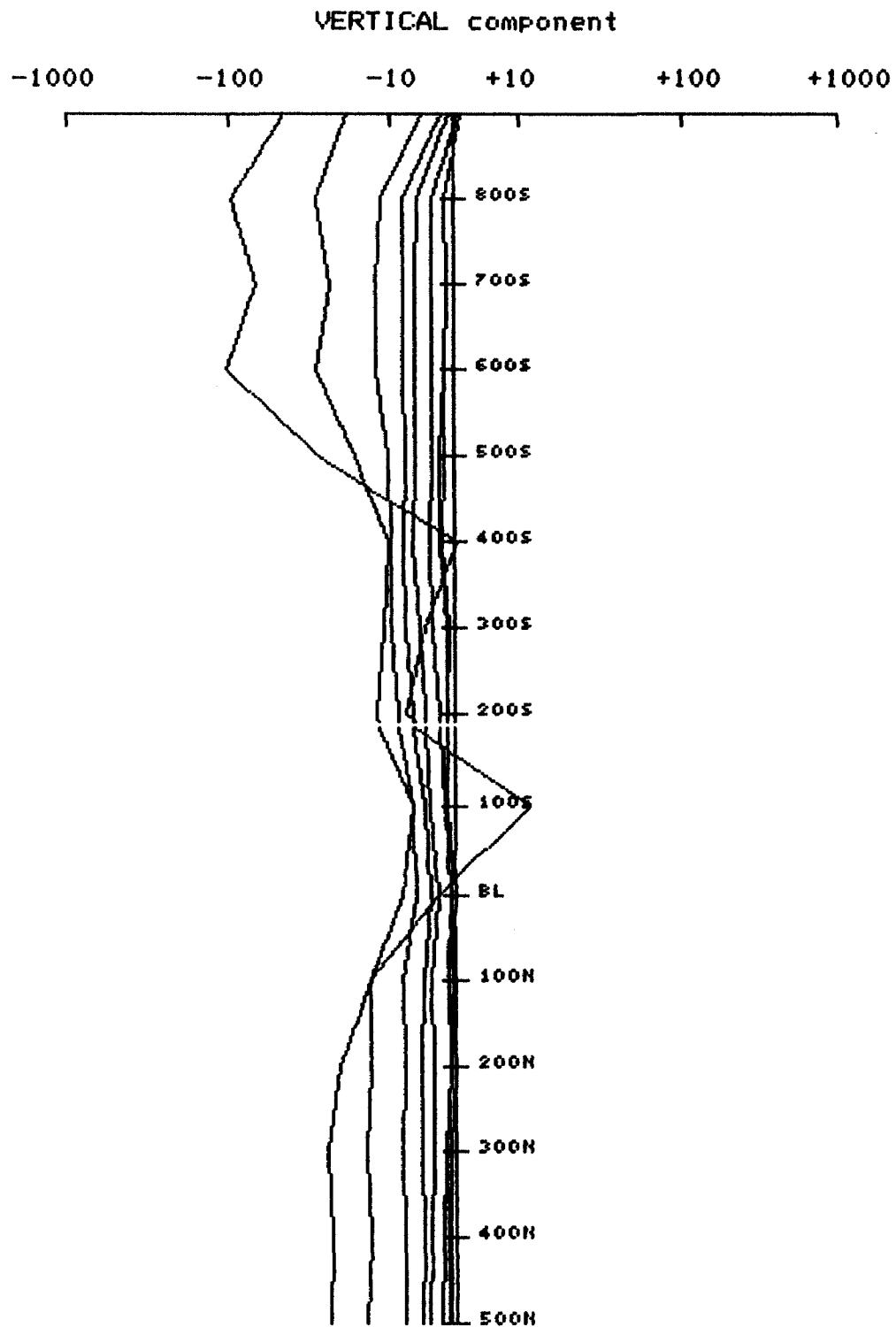
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GRID
150-21

TX
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LINE
16+00W

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CRONE GEOPHYSICS LIMITED
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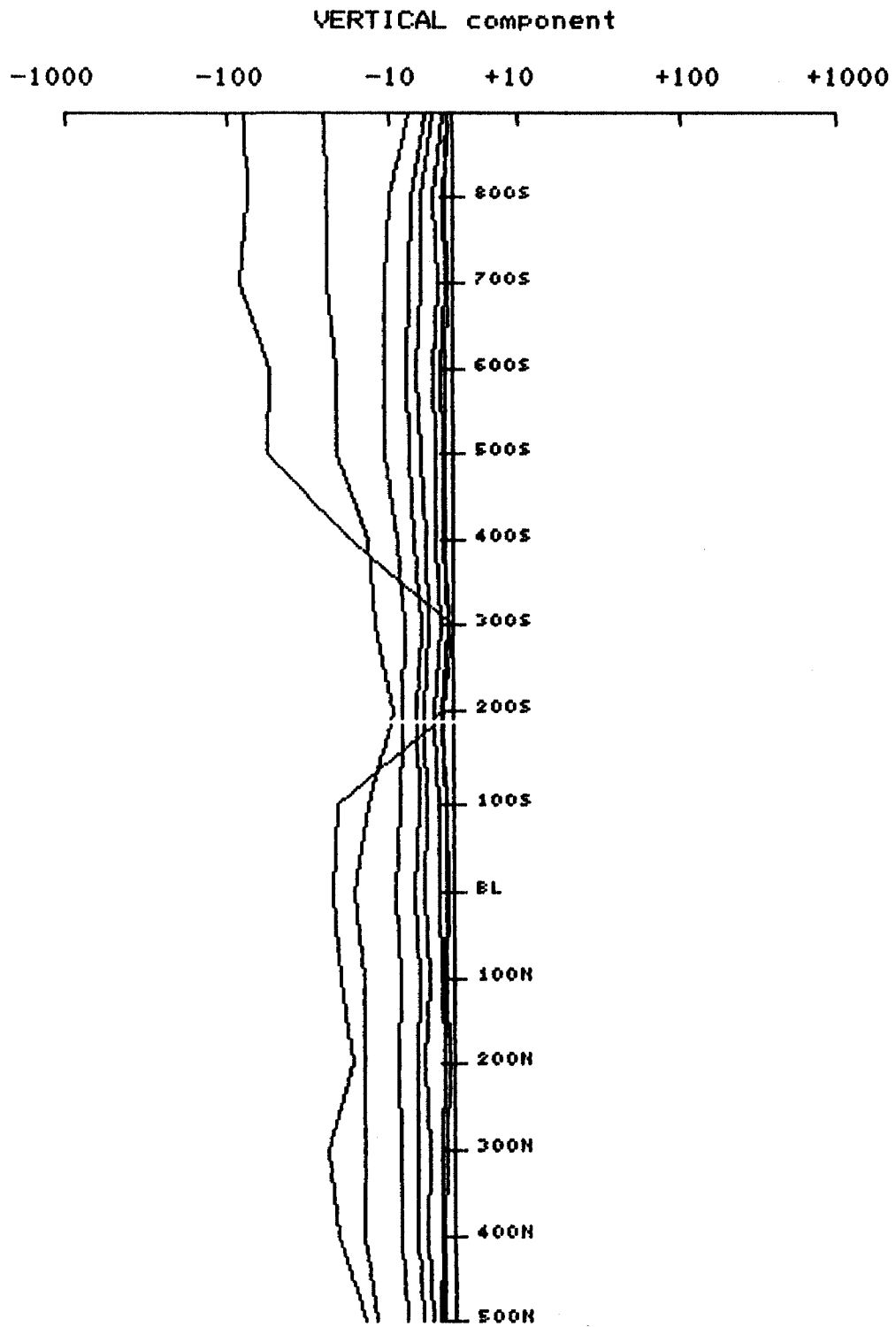
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TX
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LINE
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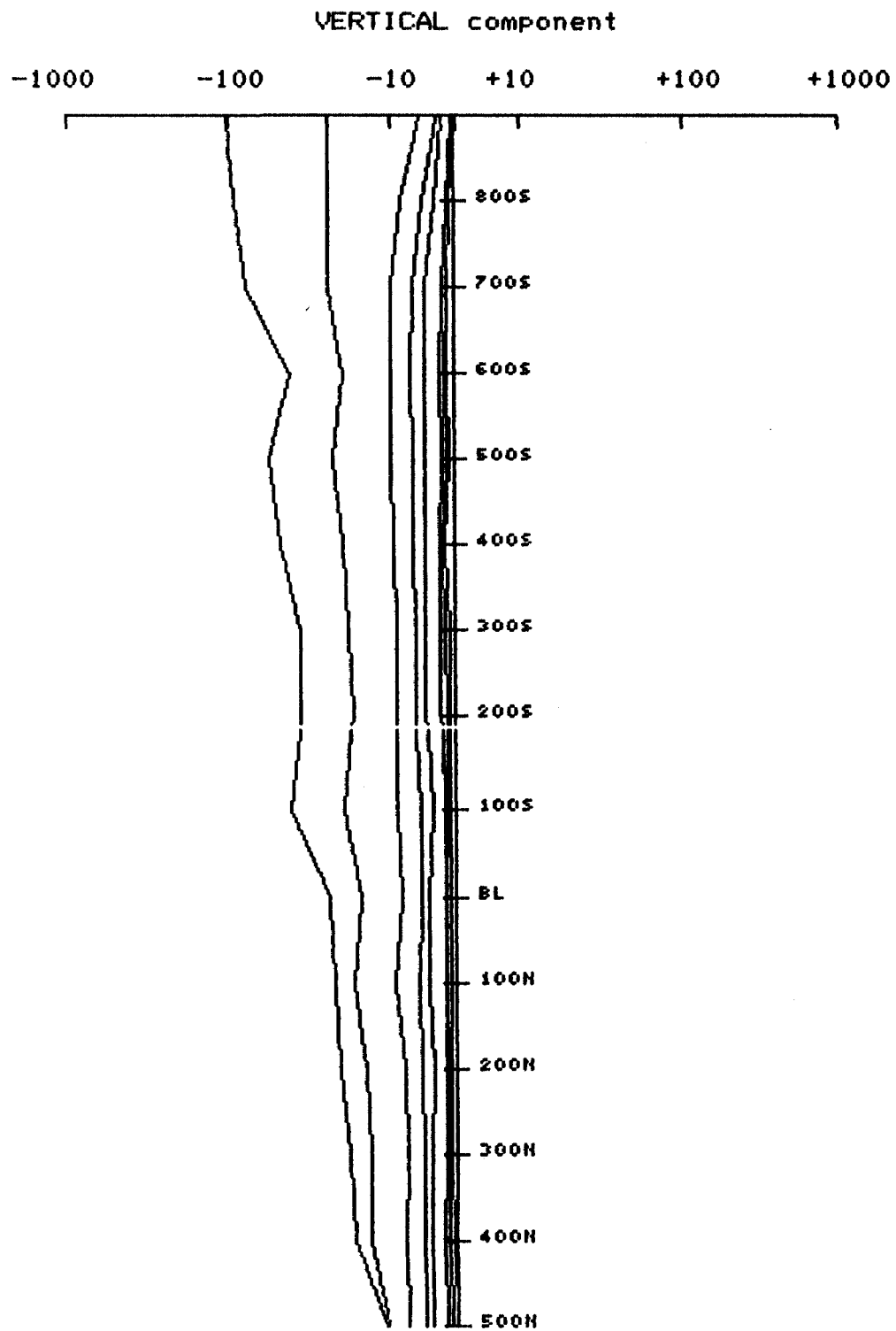


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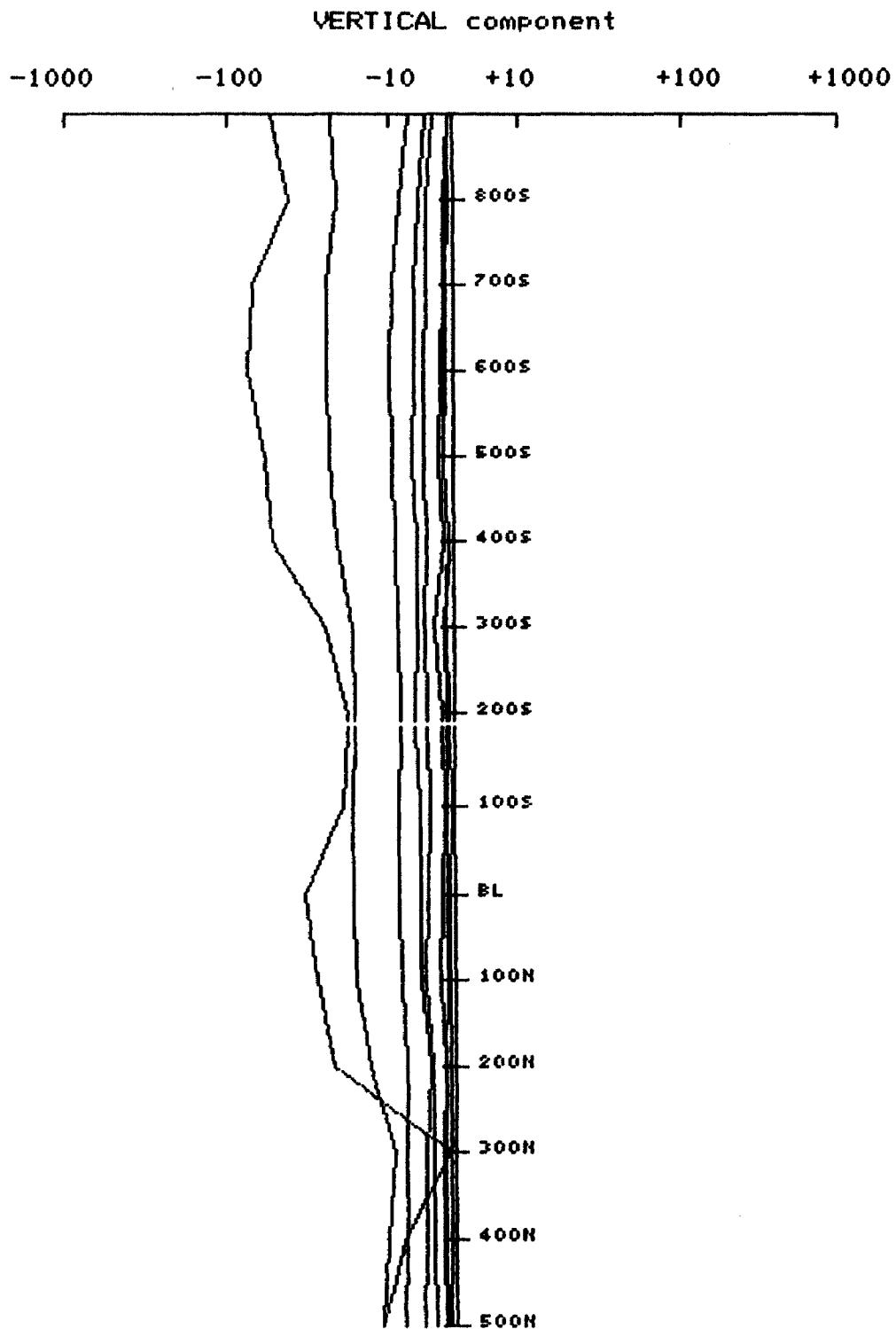
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28+00W

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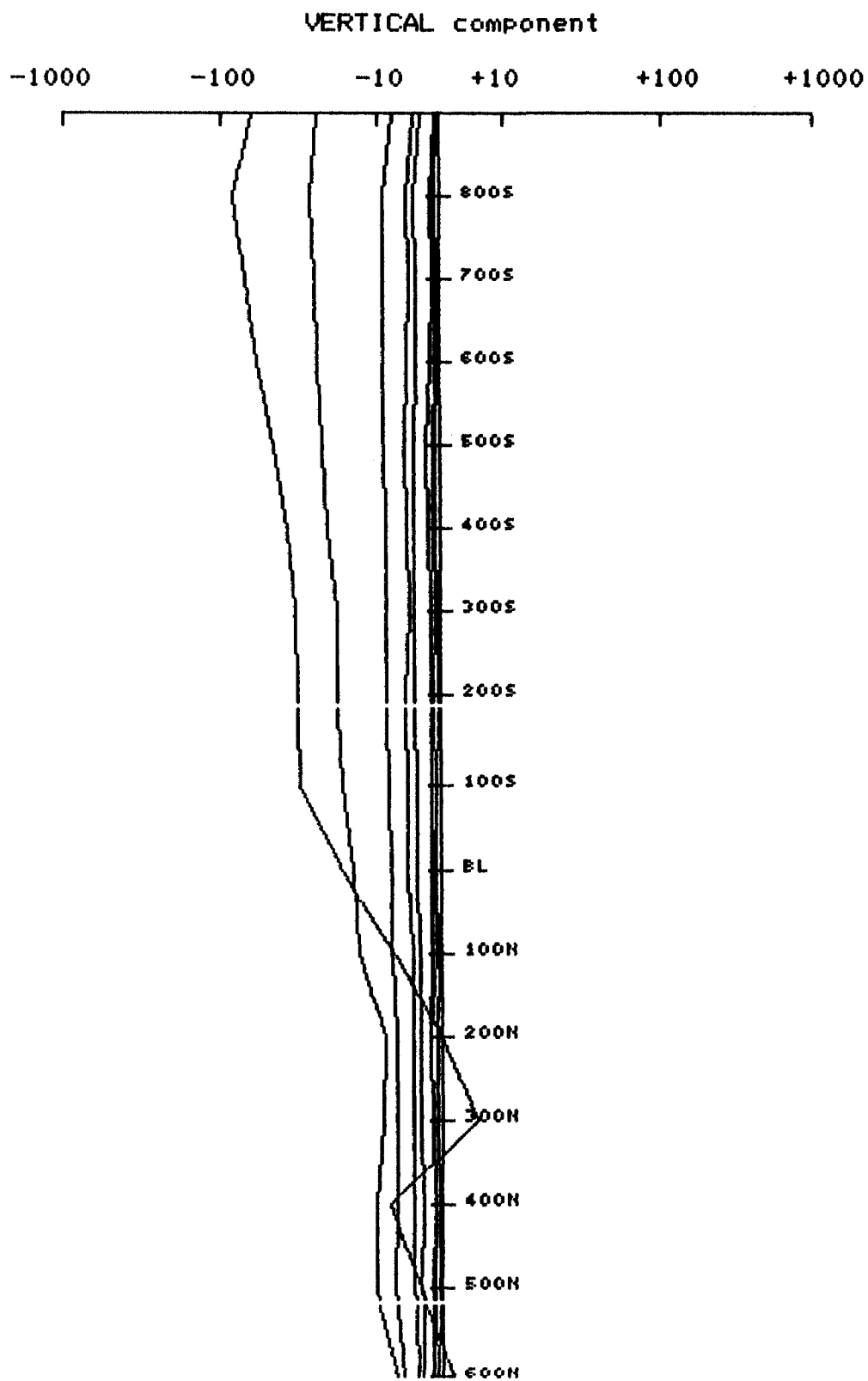
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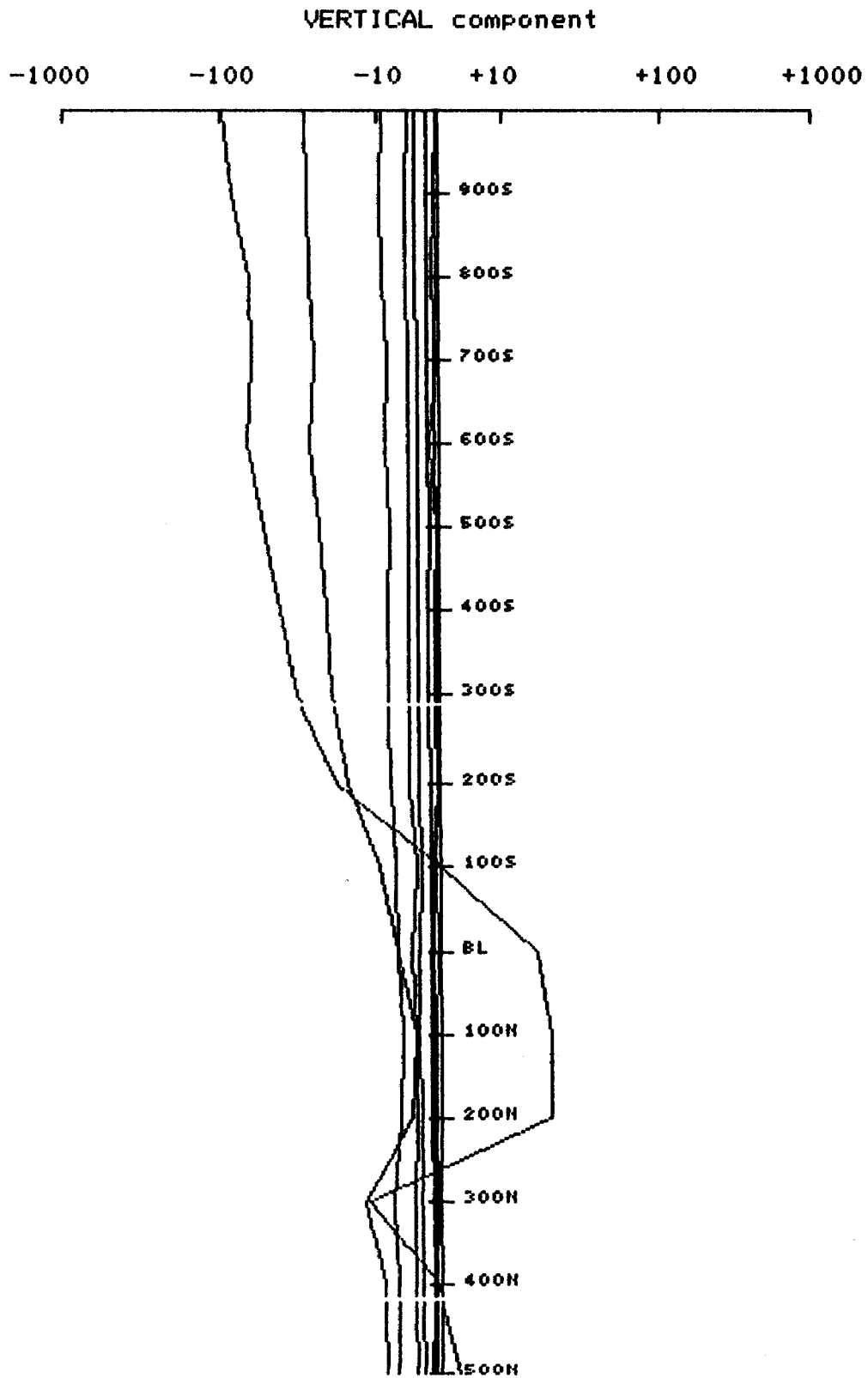
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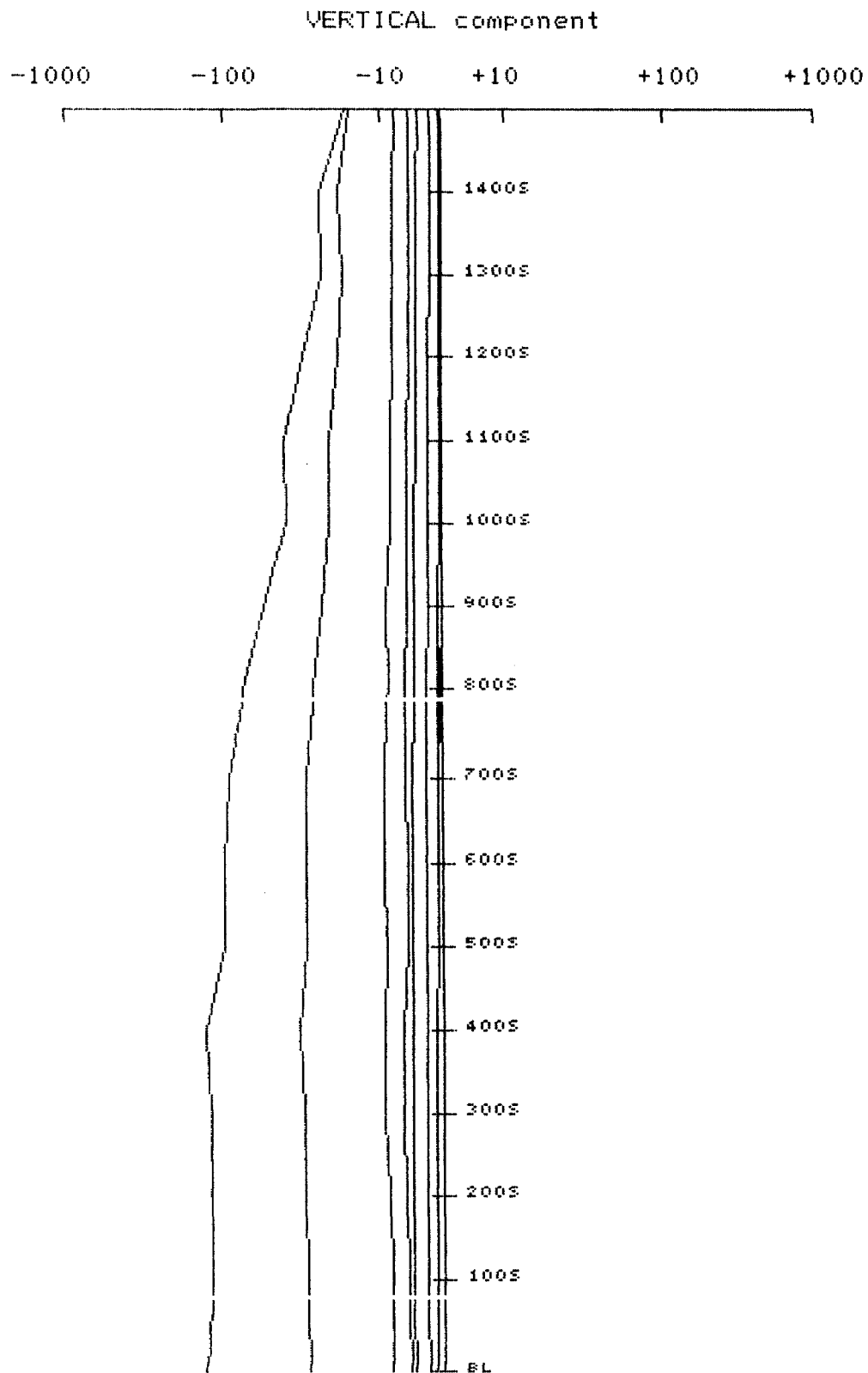


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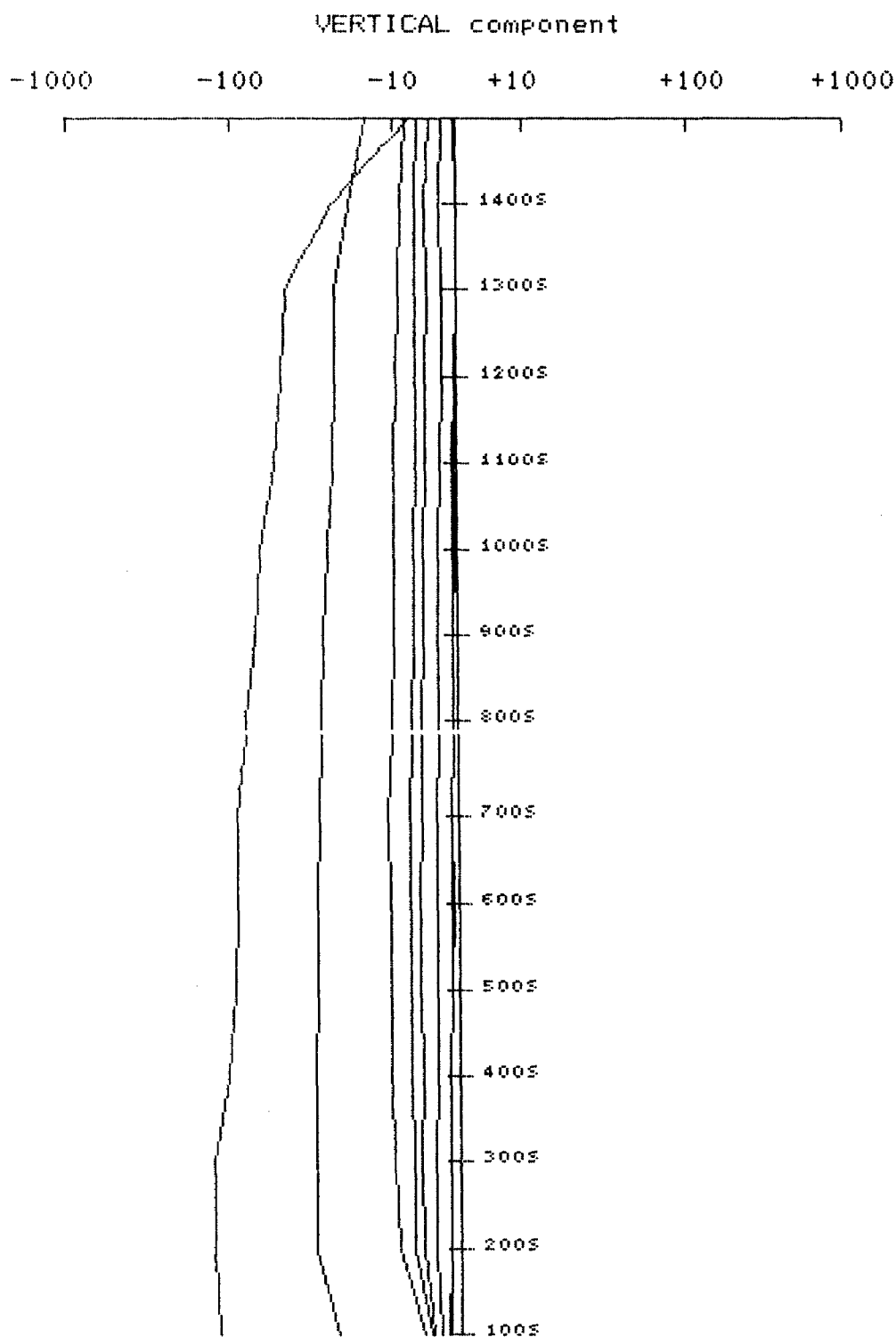
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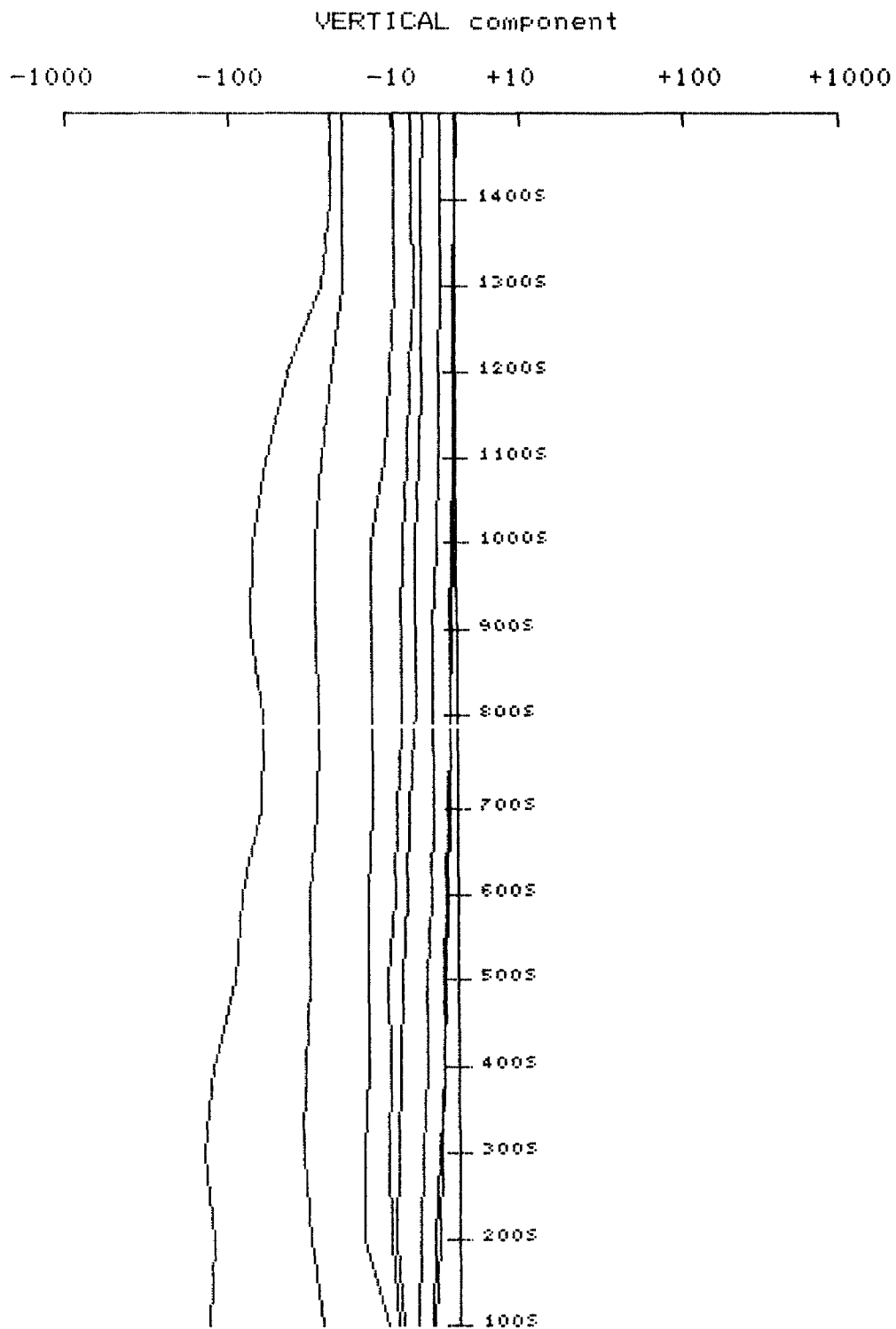


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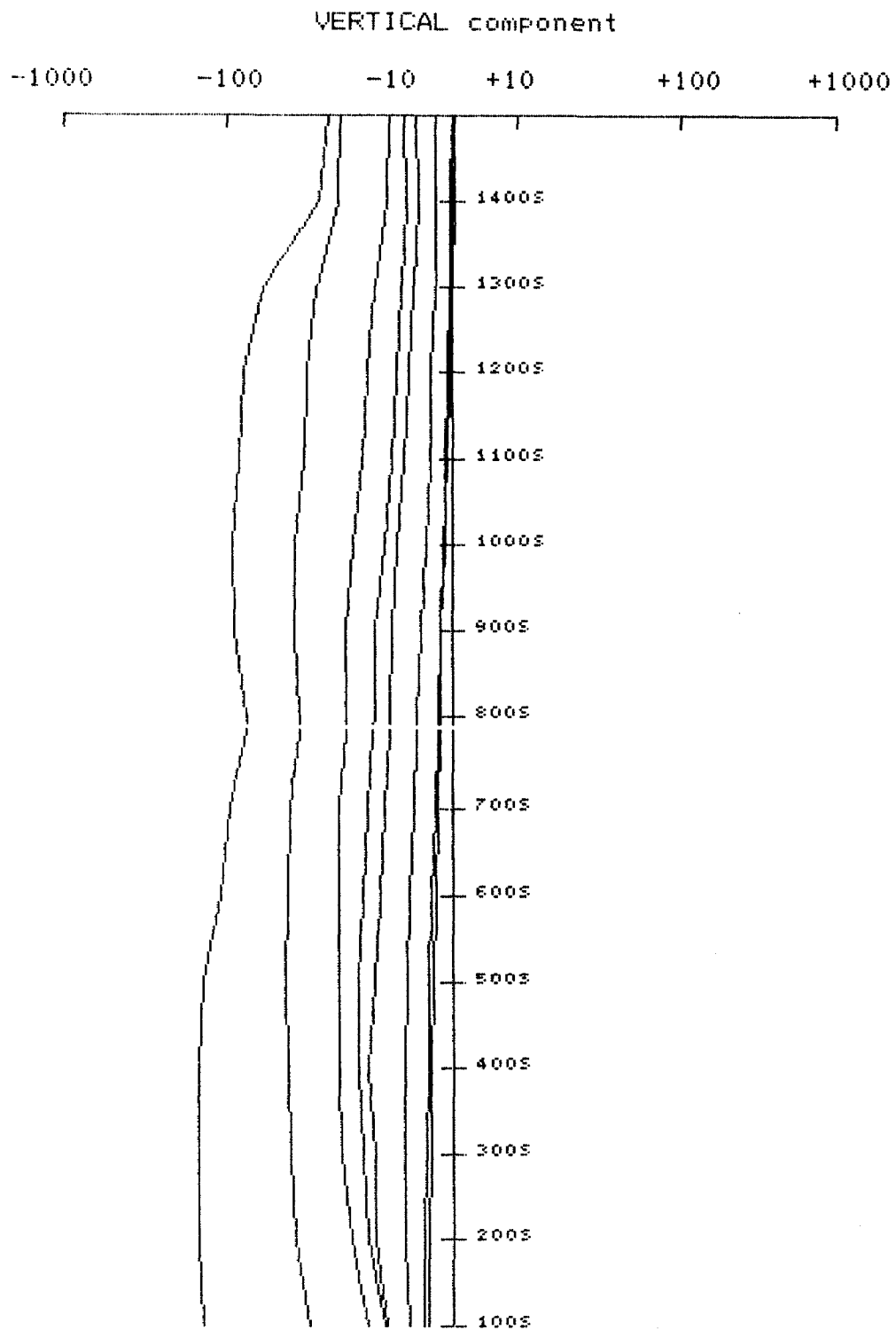
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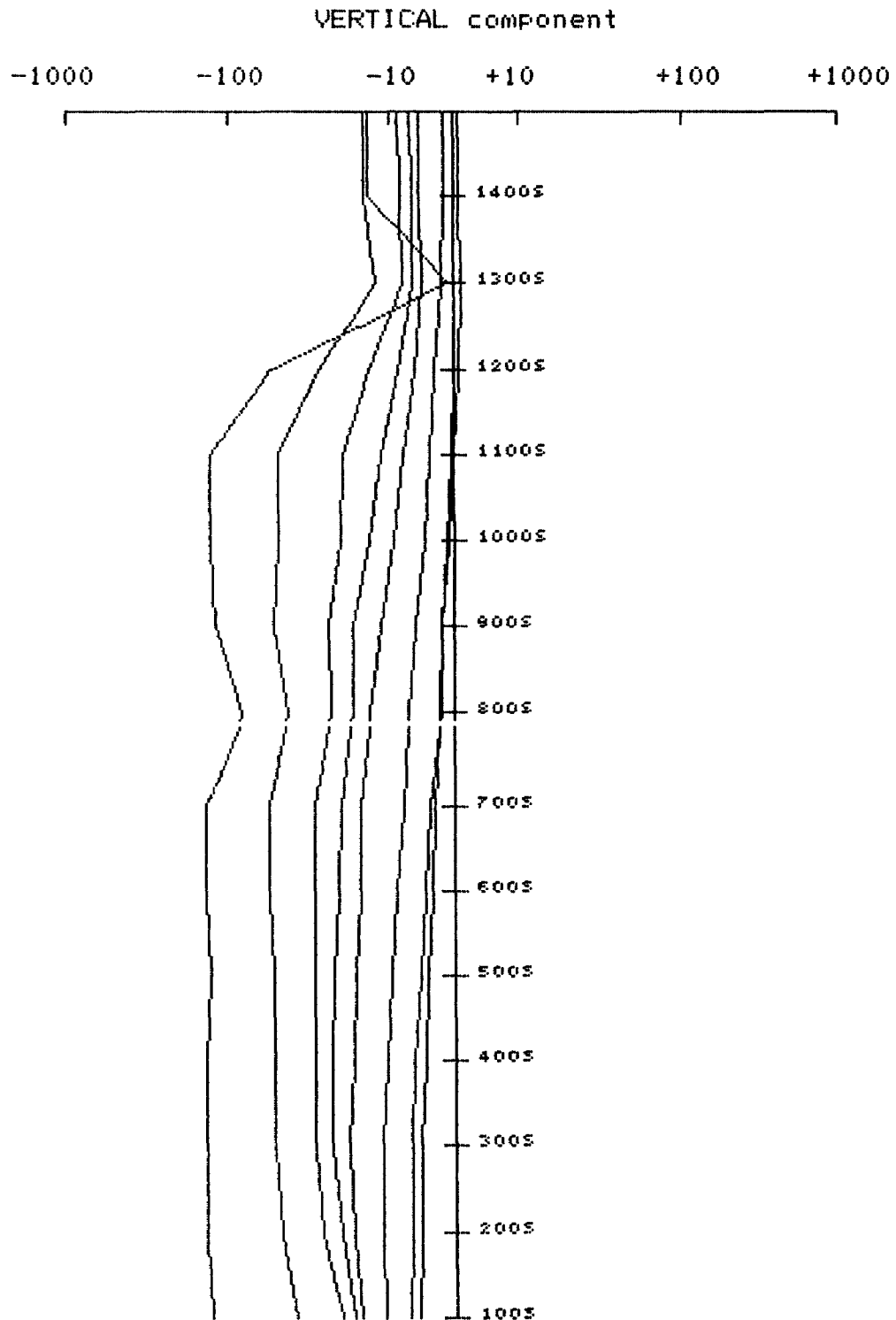
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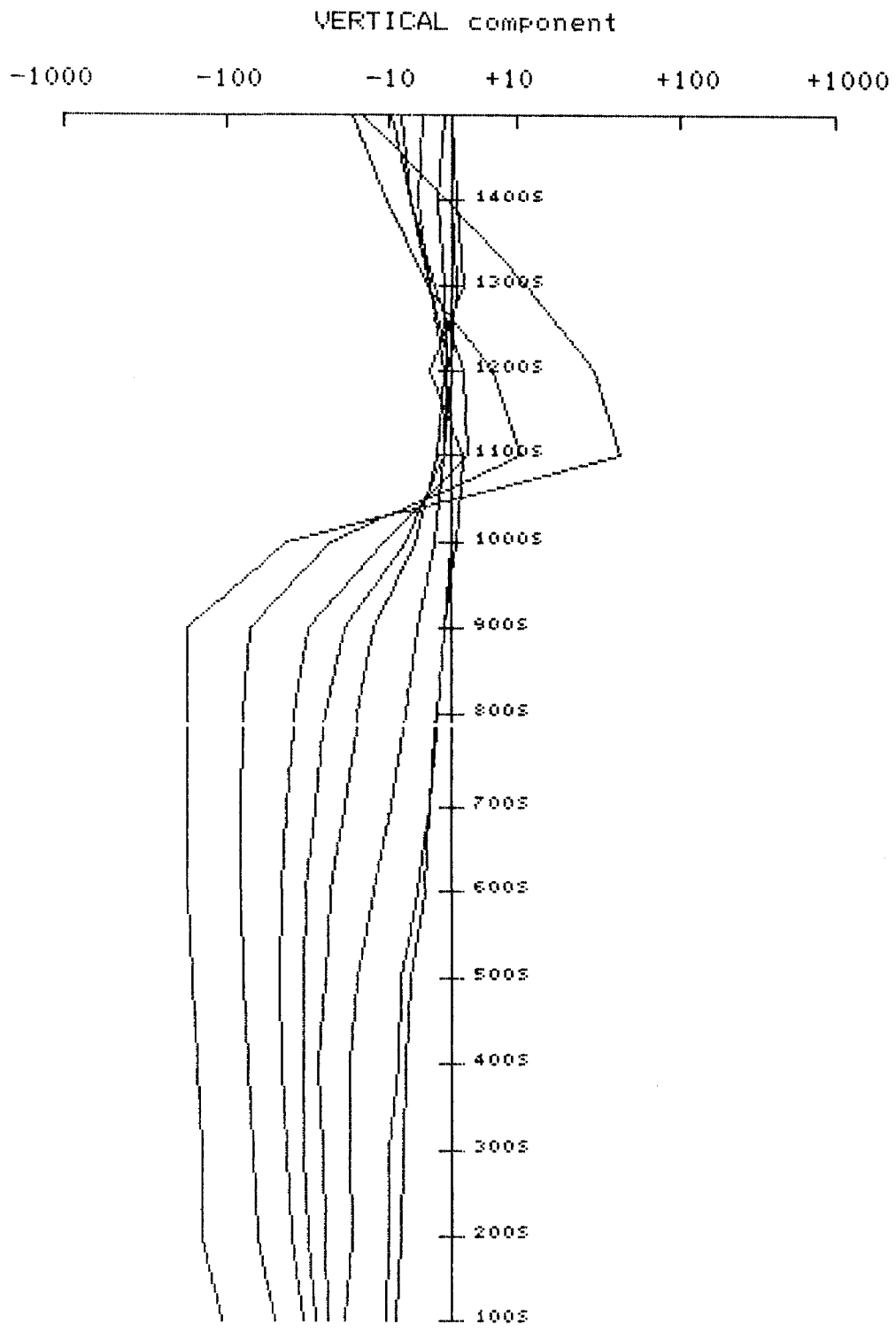


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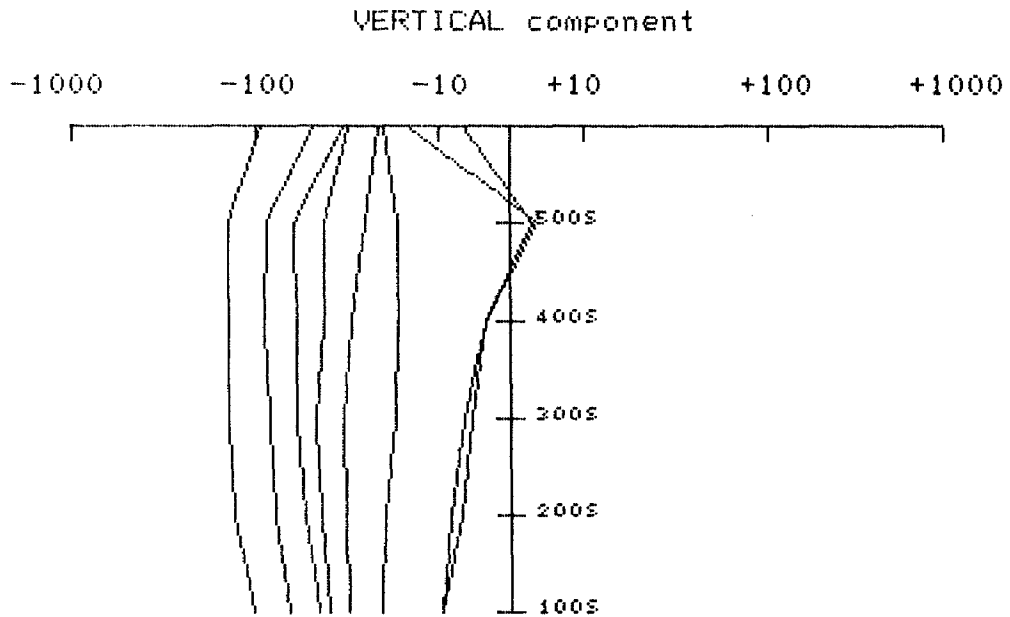


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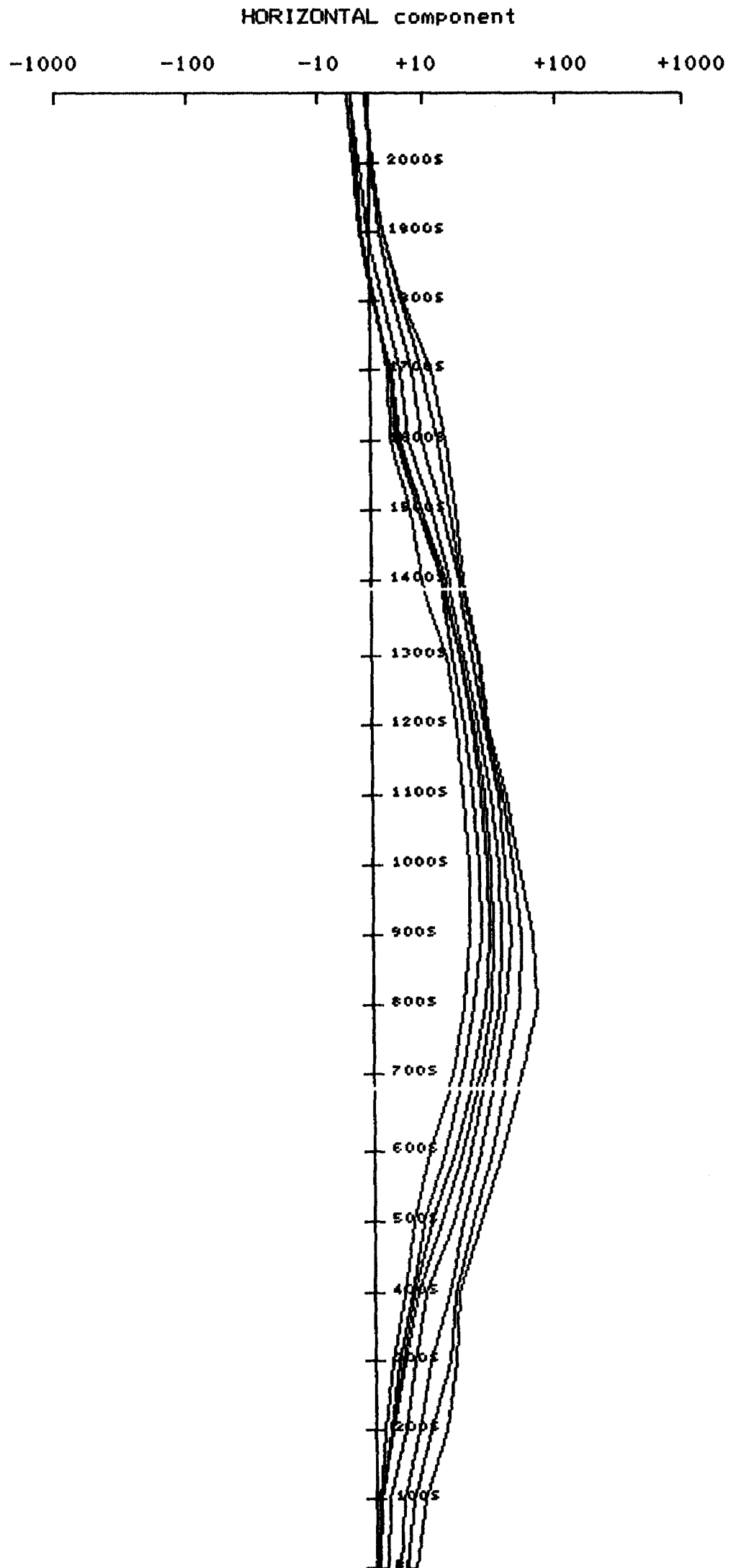
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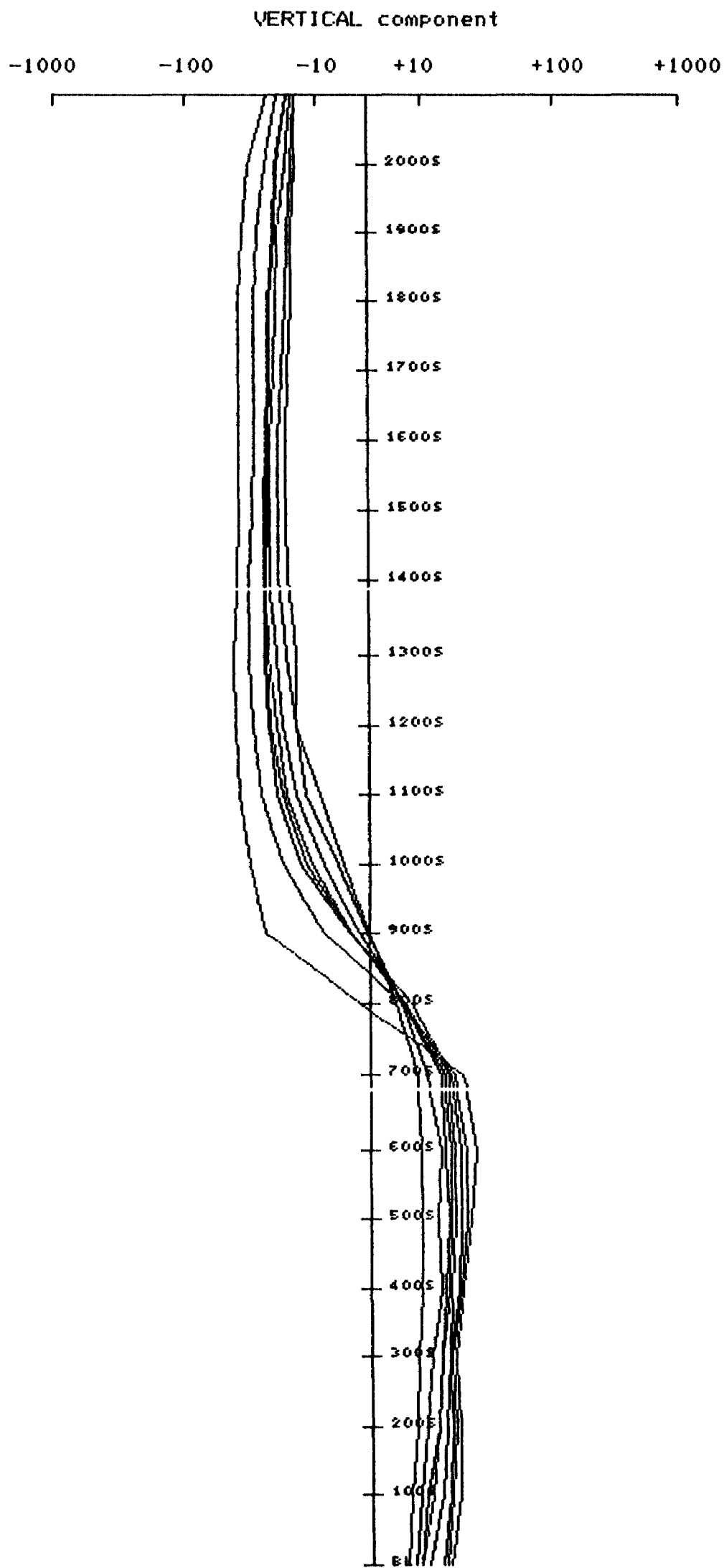
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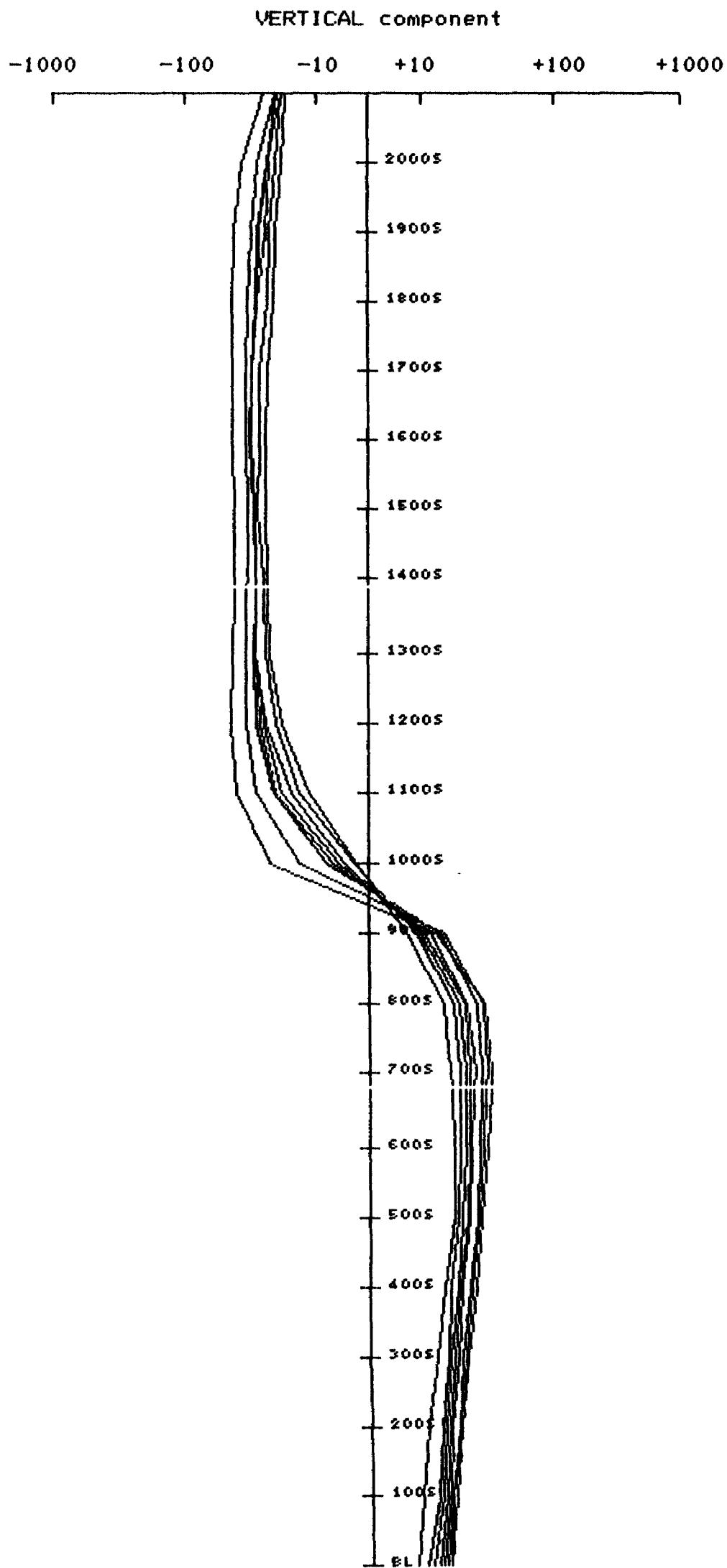
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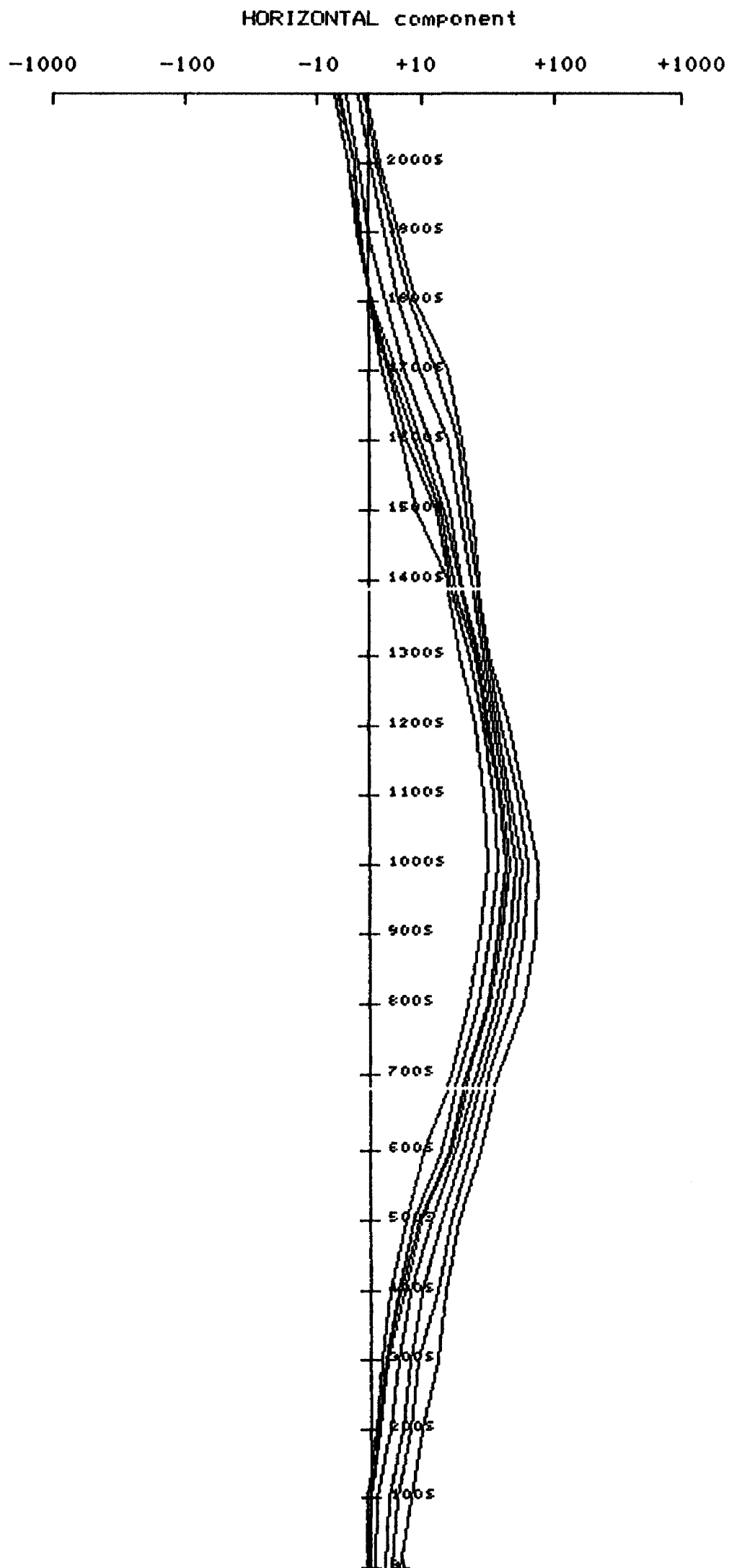


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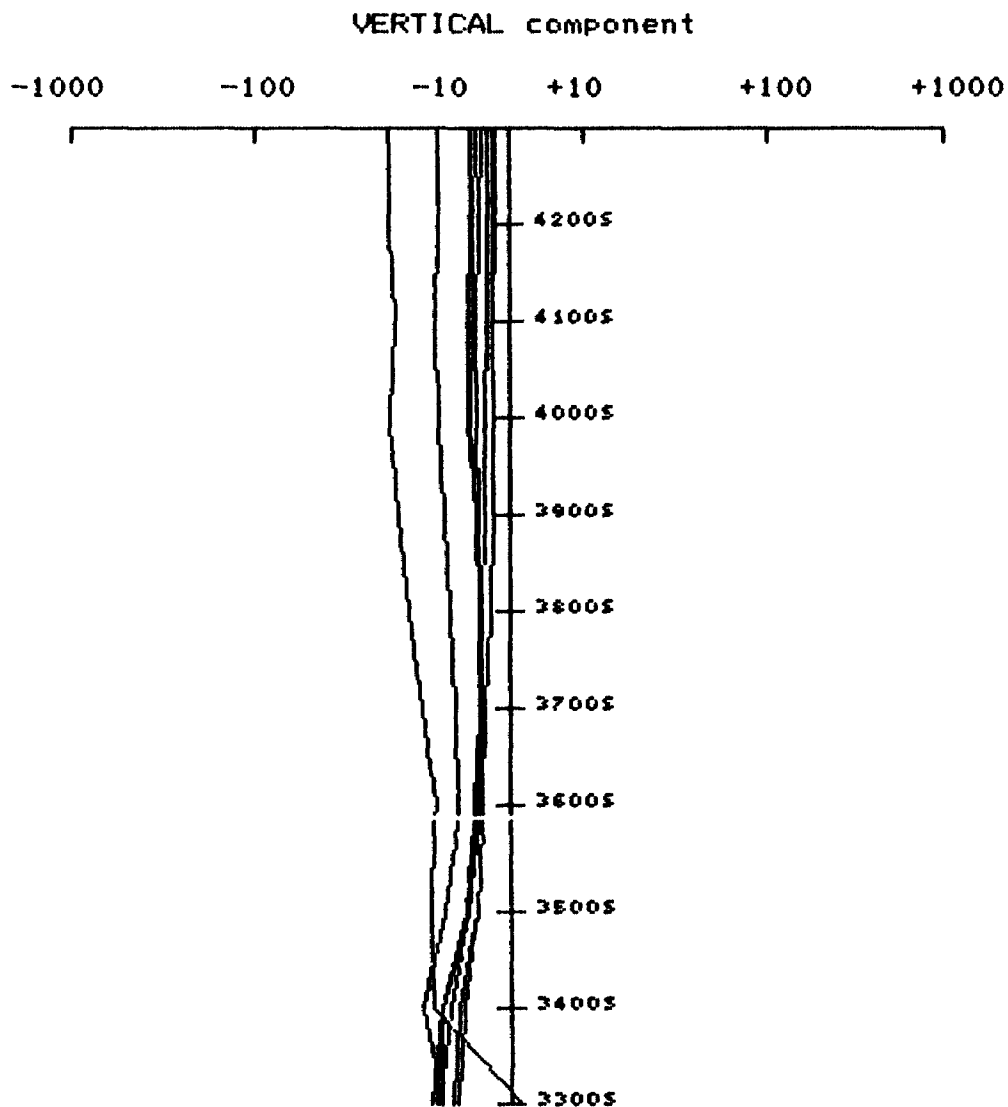


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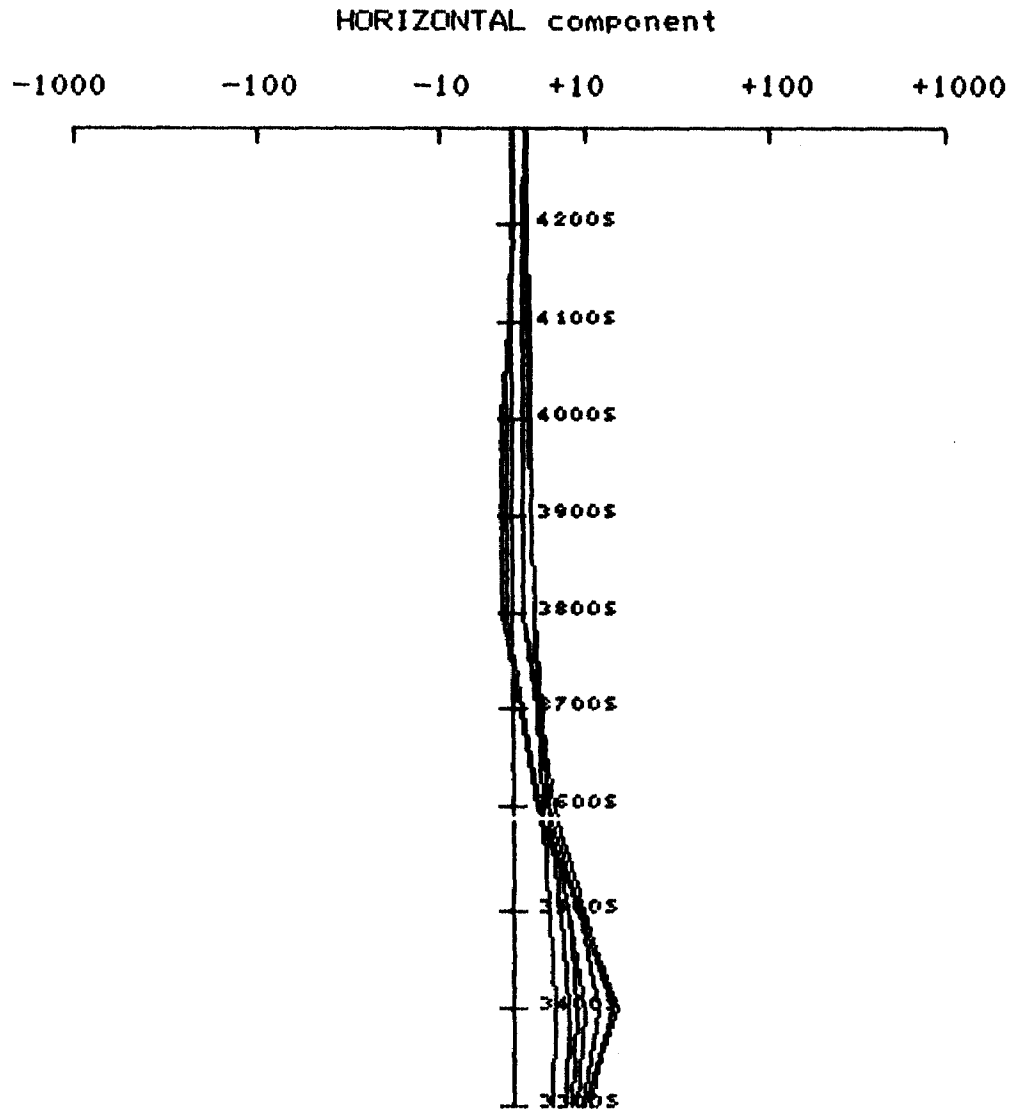


CRONE GEOPHYSICS LIMITED
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Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
DEEPEM

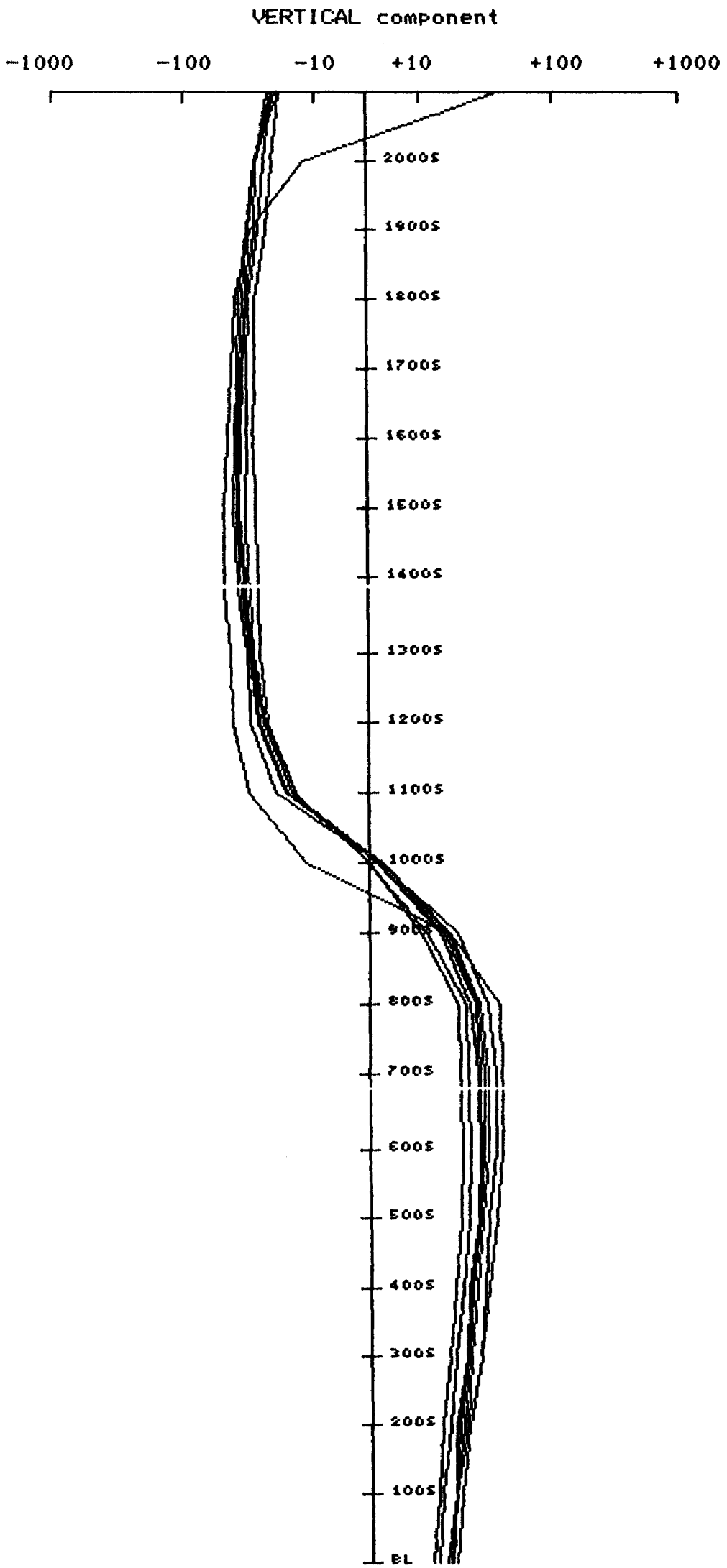
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TX
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LINE
40+00E

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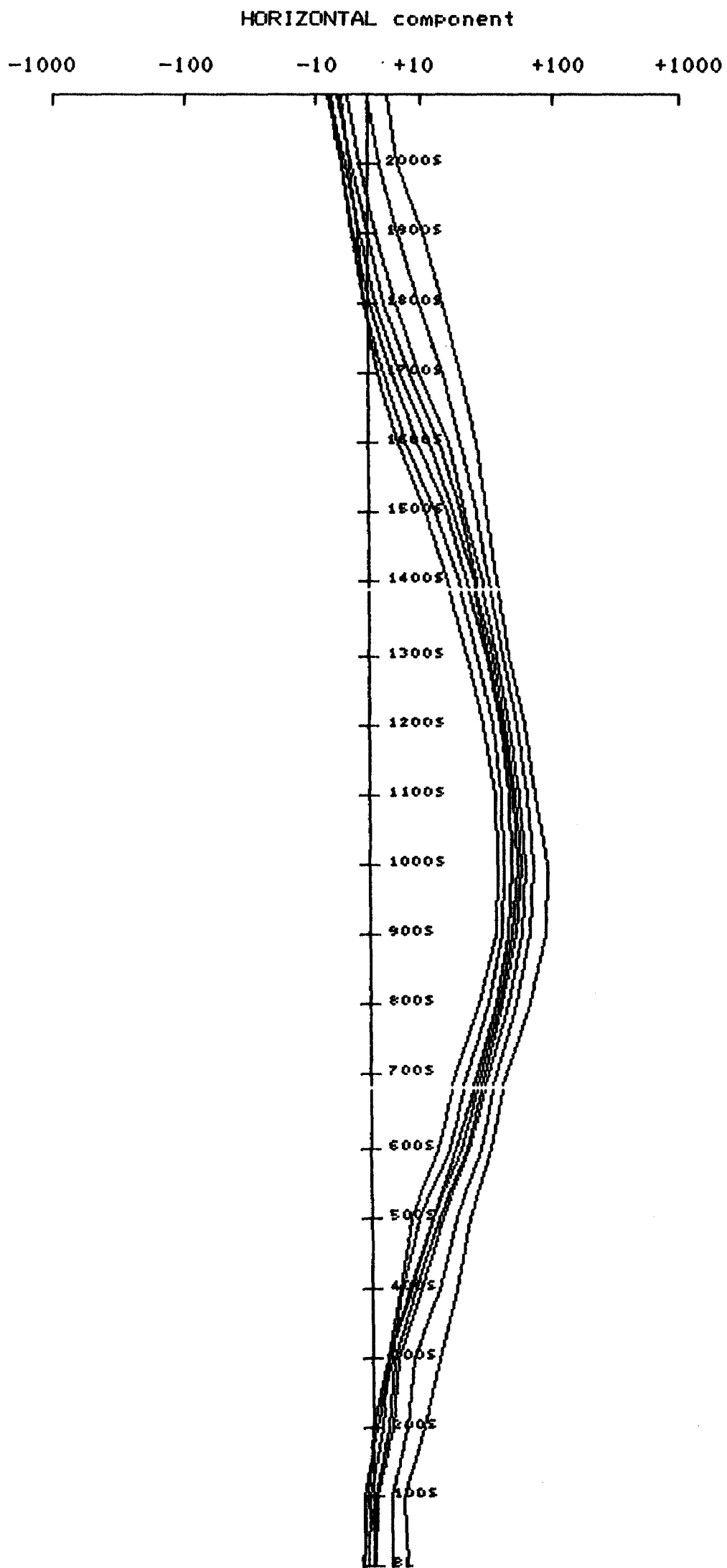


CRONE GEOPHYSICS LIMITED
DEEPEM

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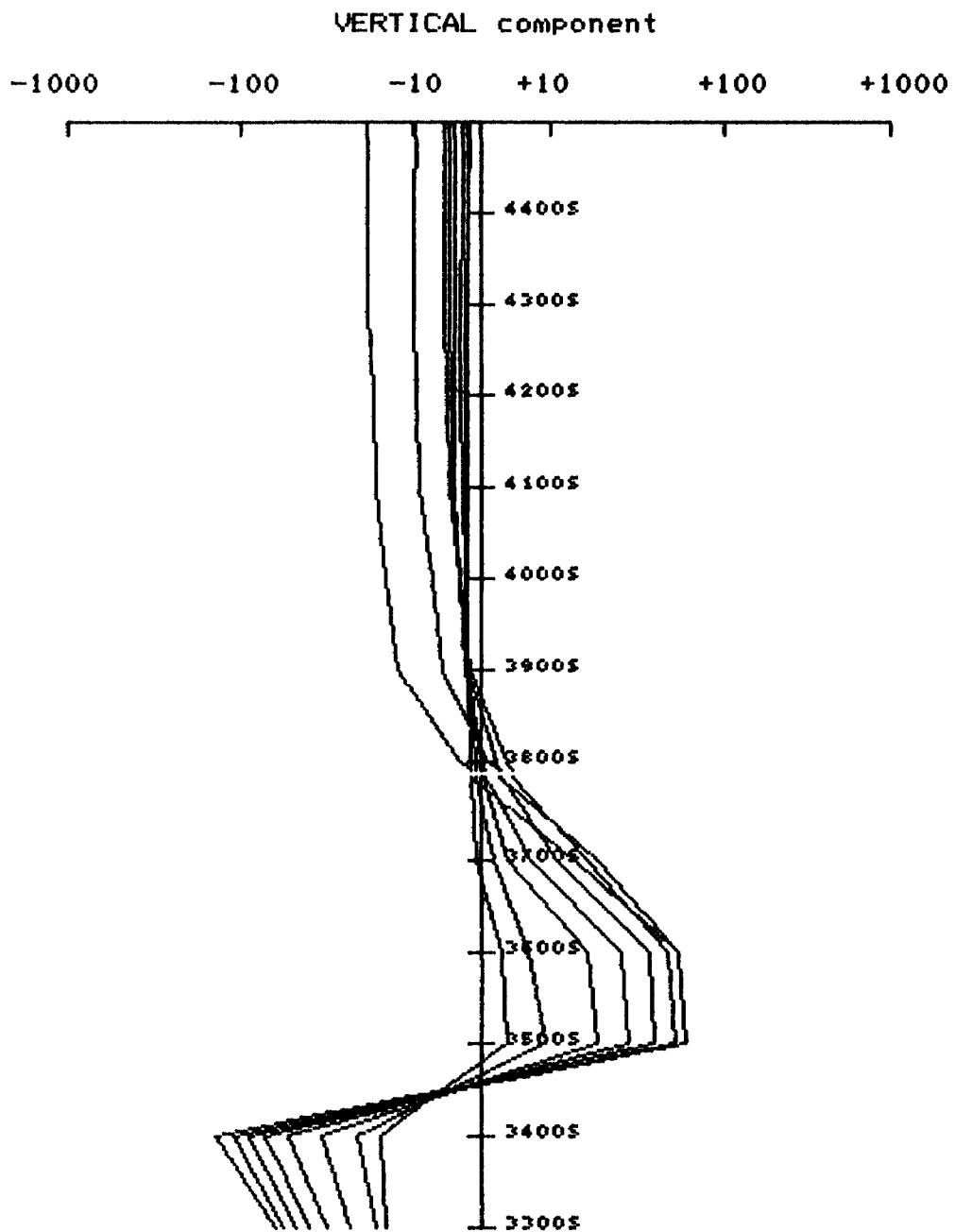


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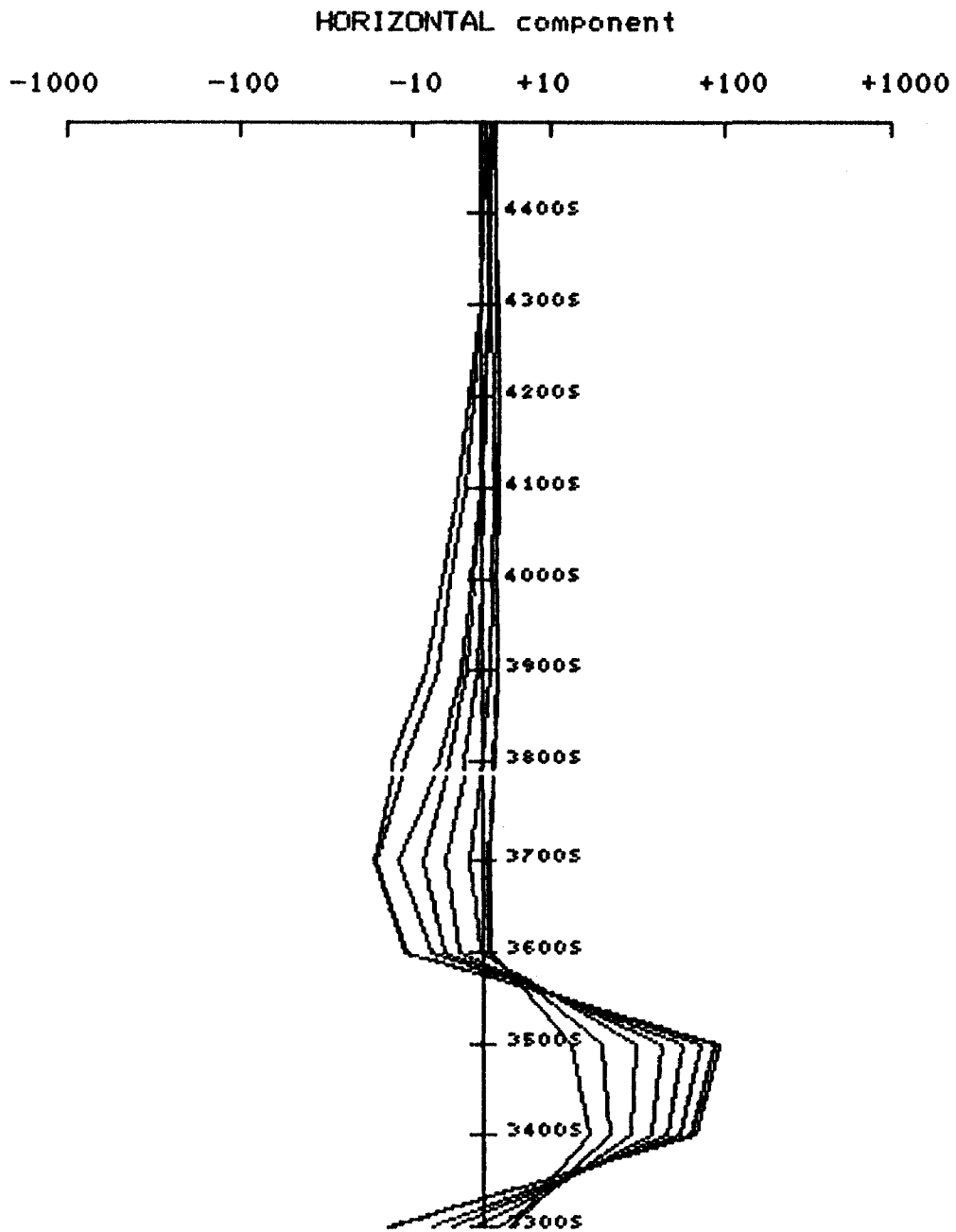


CRONE GEOPHYSICS LIMITED
DEEPEM

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CRONE GEOPHYSICS LIMITED
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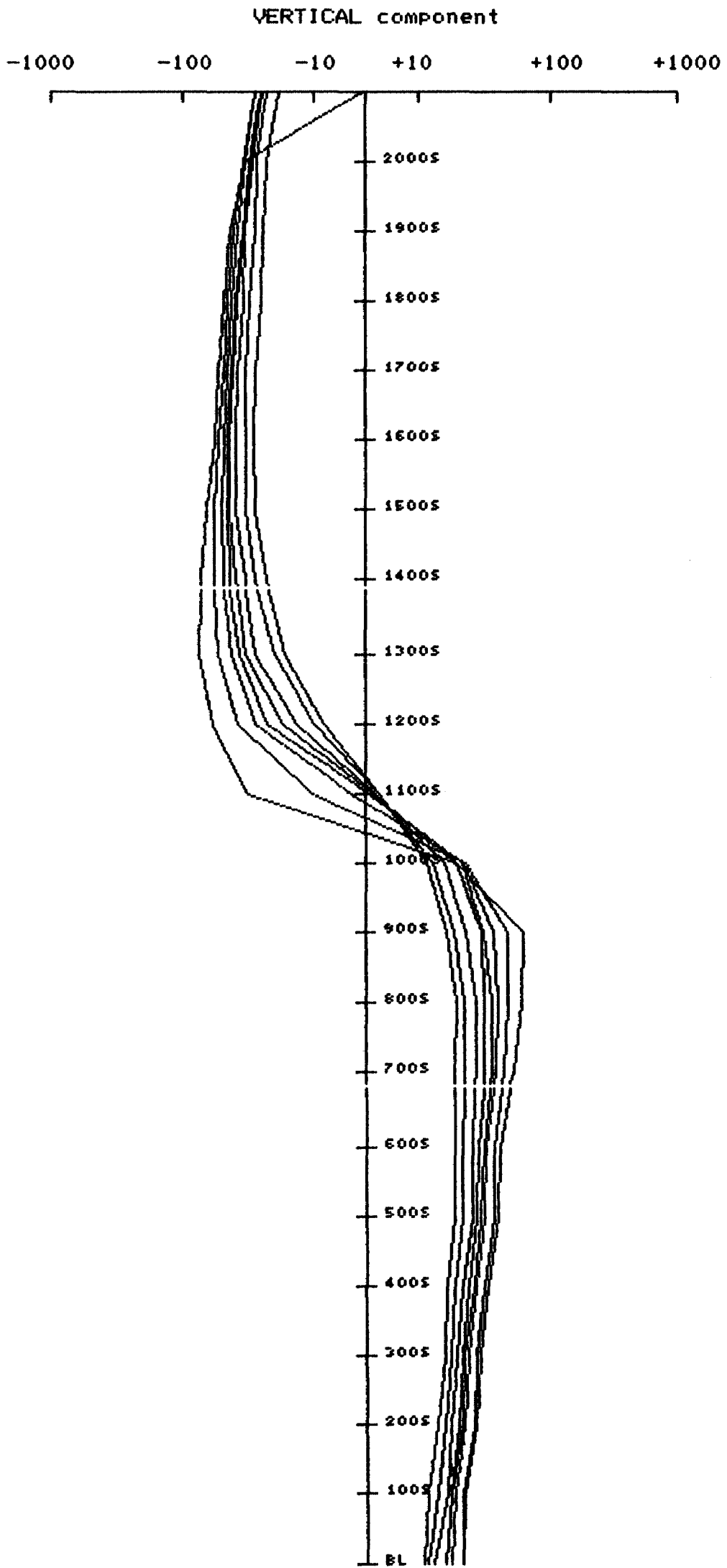
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150-18

TX
1

LINE
44+00E

Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
DEEPEM

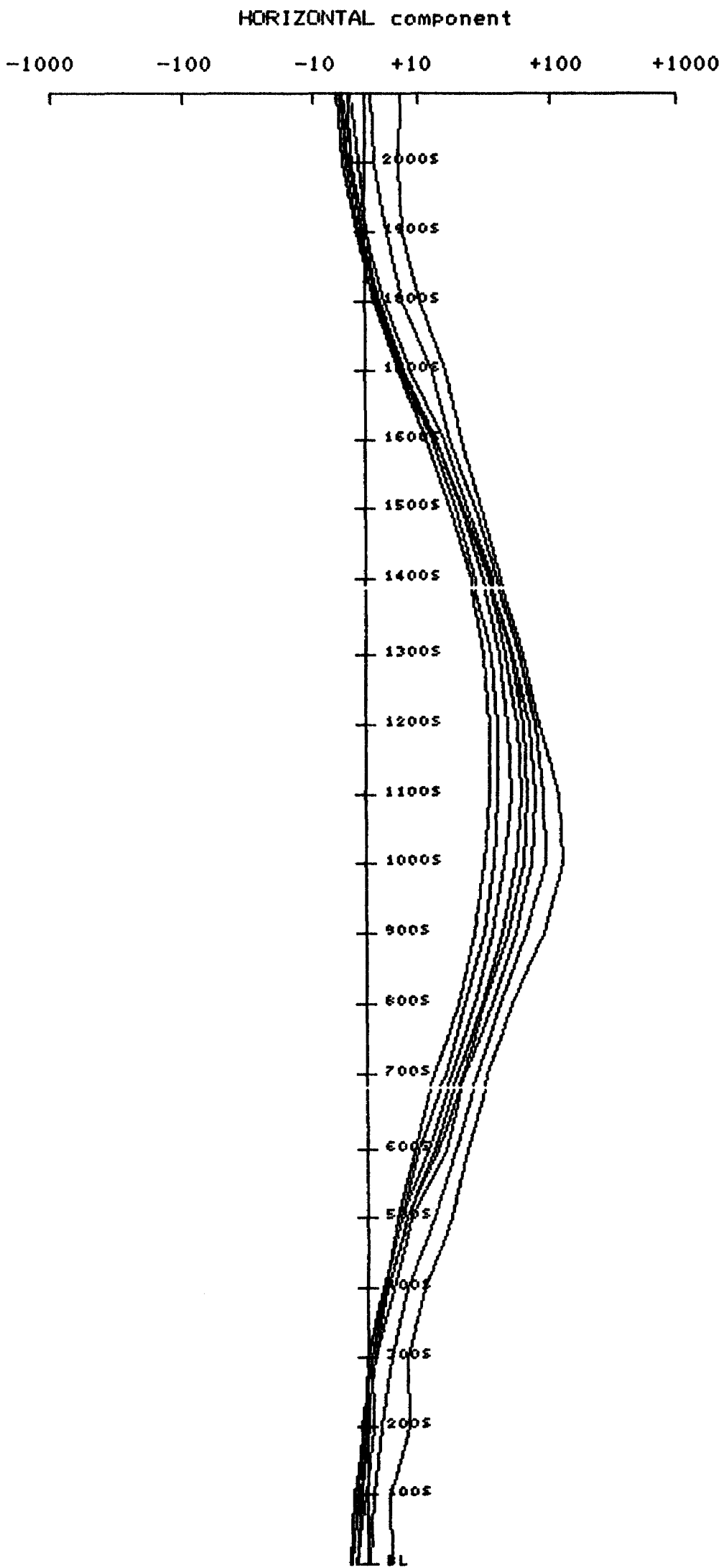
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GRID
150-18

TX
1

LINE
44+00E

Scale: 1in= 200ft

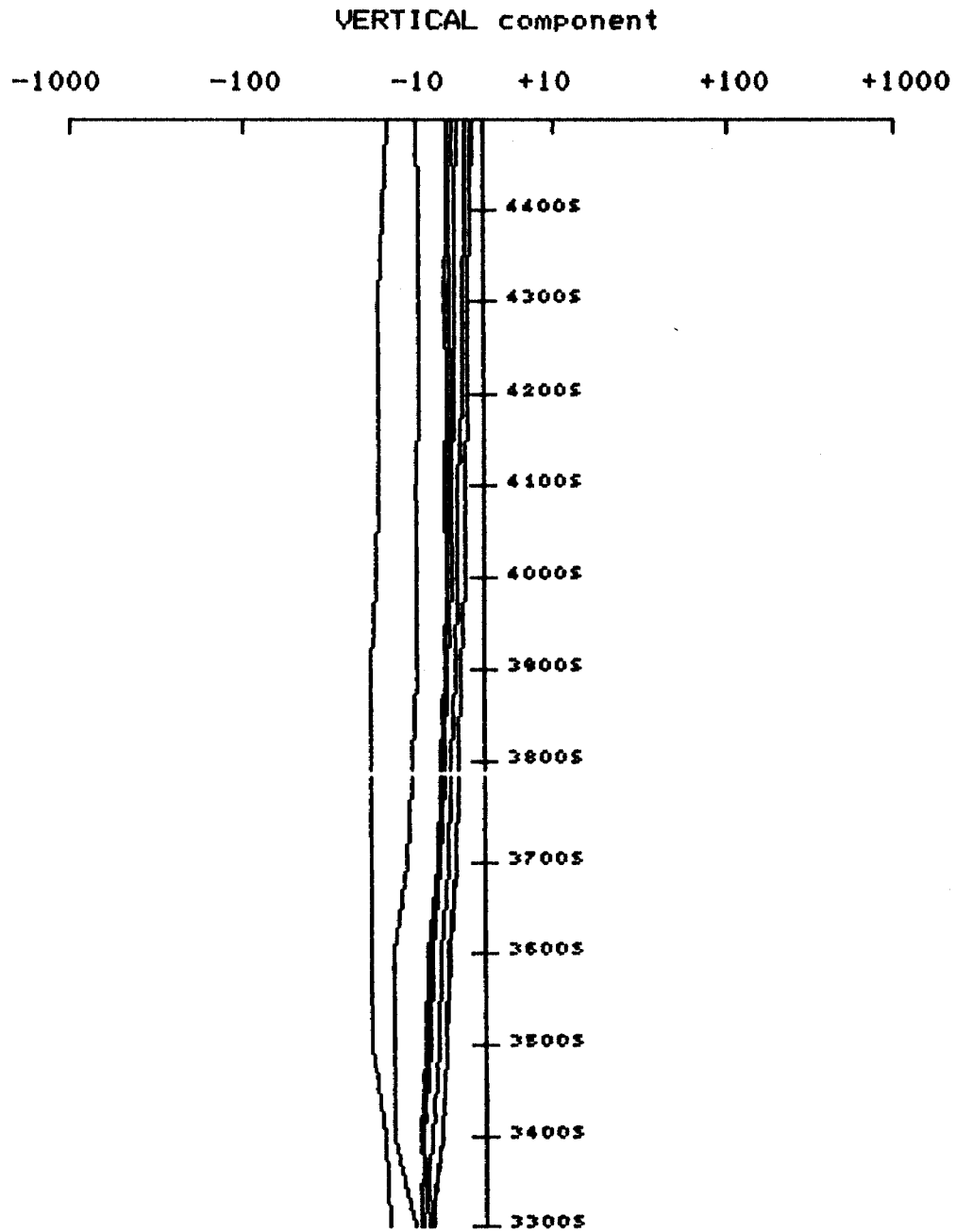


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D44ESE1S:1 SYS 5

GRID TX LINE
150-18 1 44+00E

Scale: 1in= 200ft

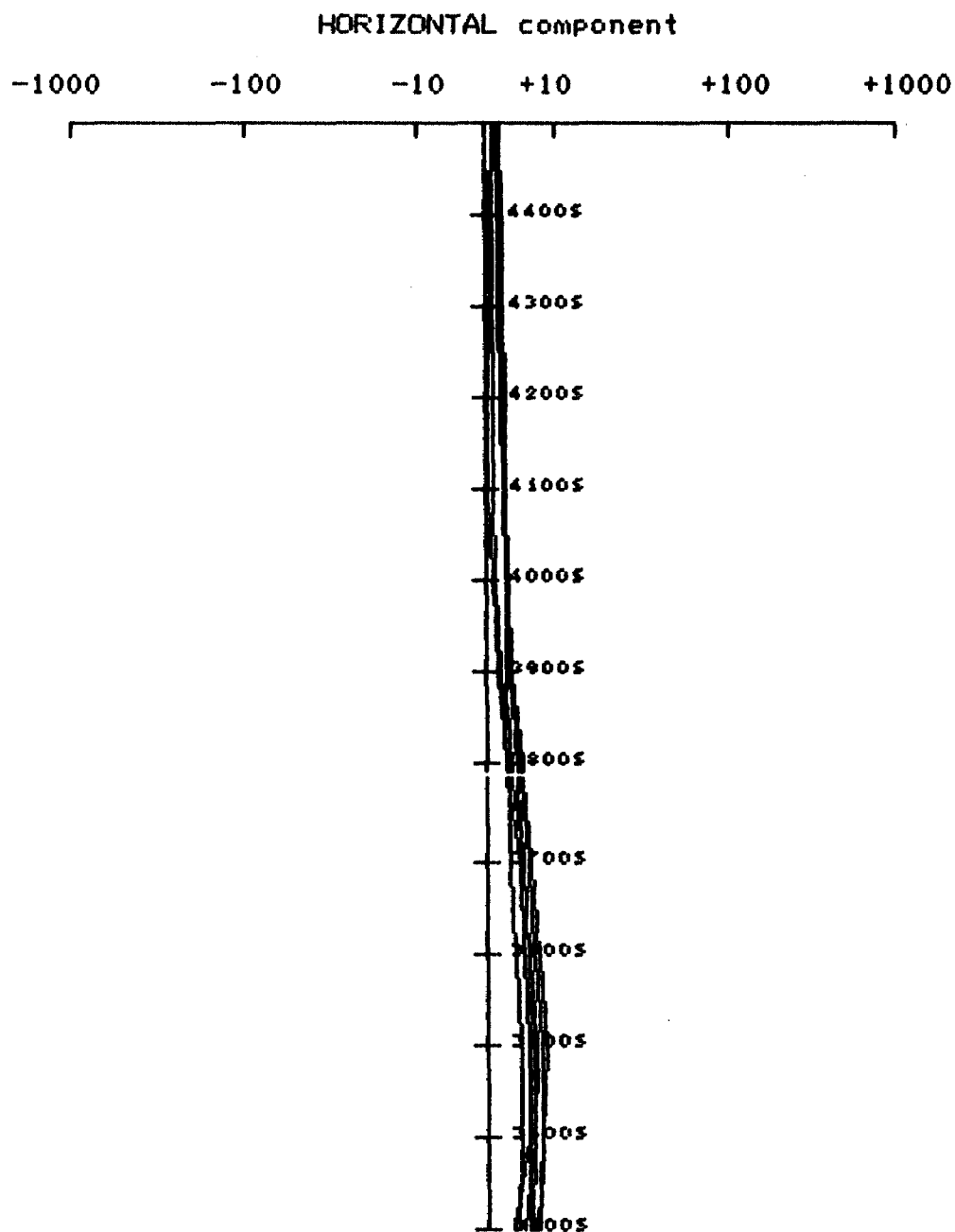


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D44ESE1S:1 SYS 5

GRID TX LINE
150-18 1 44+00E

Scale: 1in= 200ft

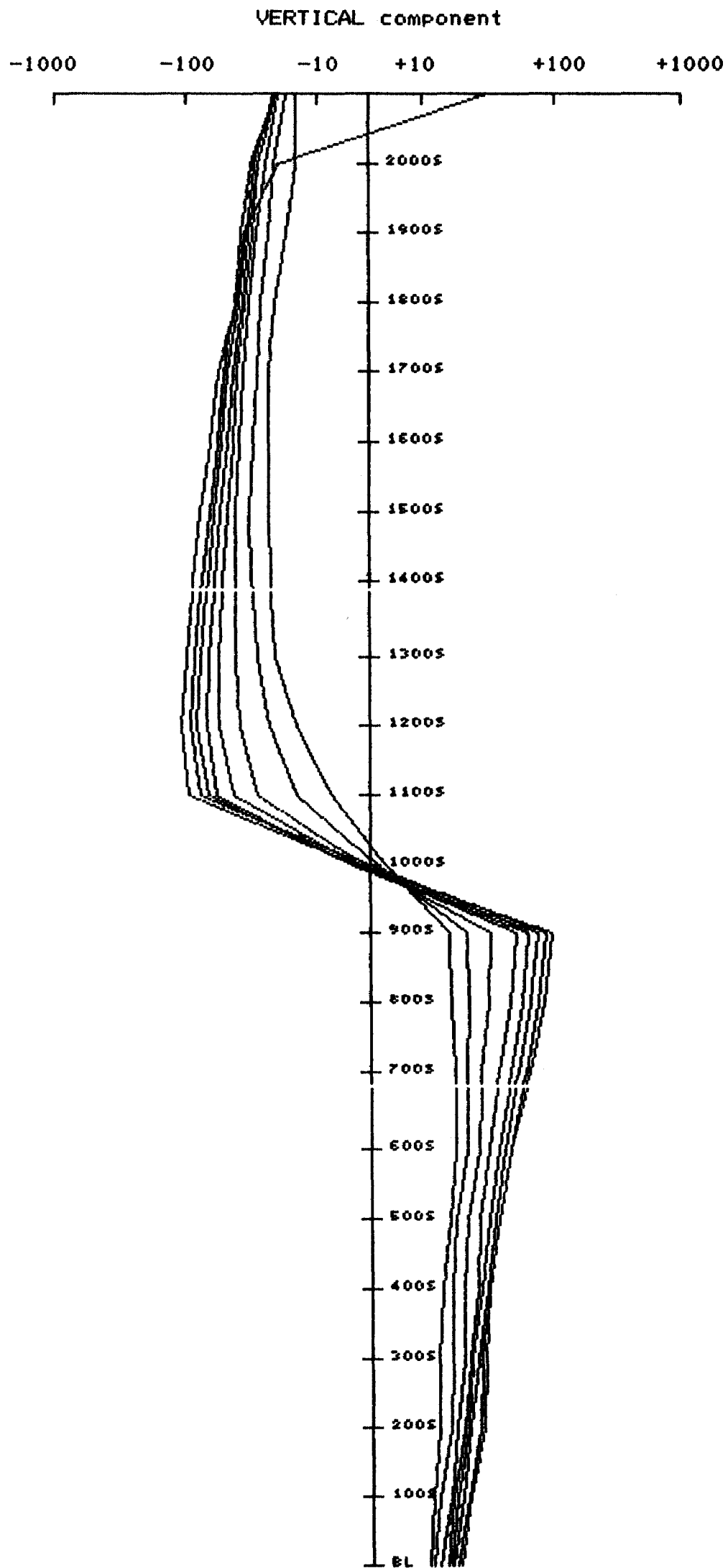


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D48ESEL1:1 SYS 5

GRID TX LINE
150-18 1 48+00E

Scale: 1in= 200ft

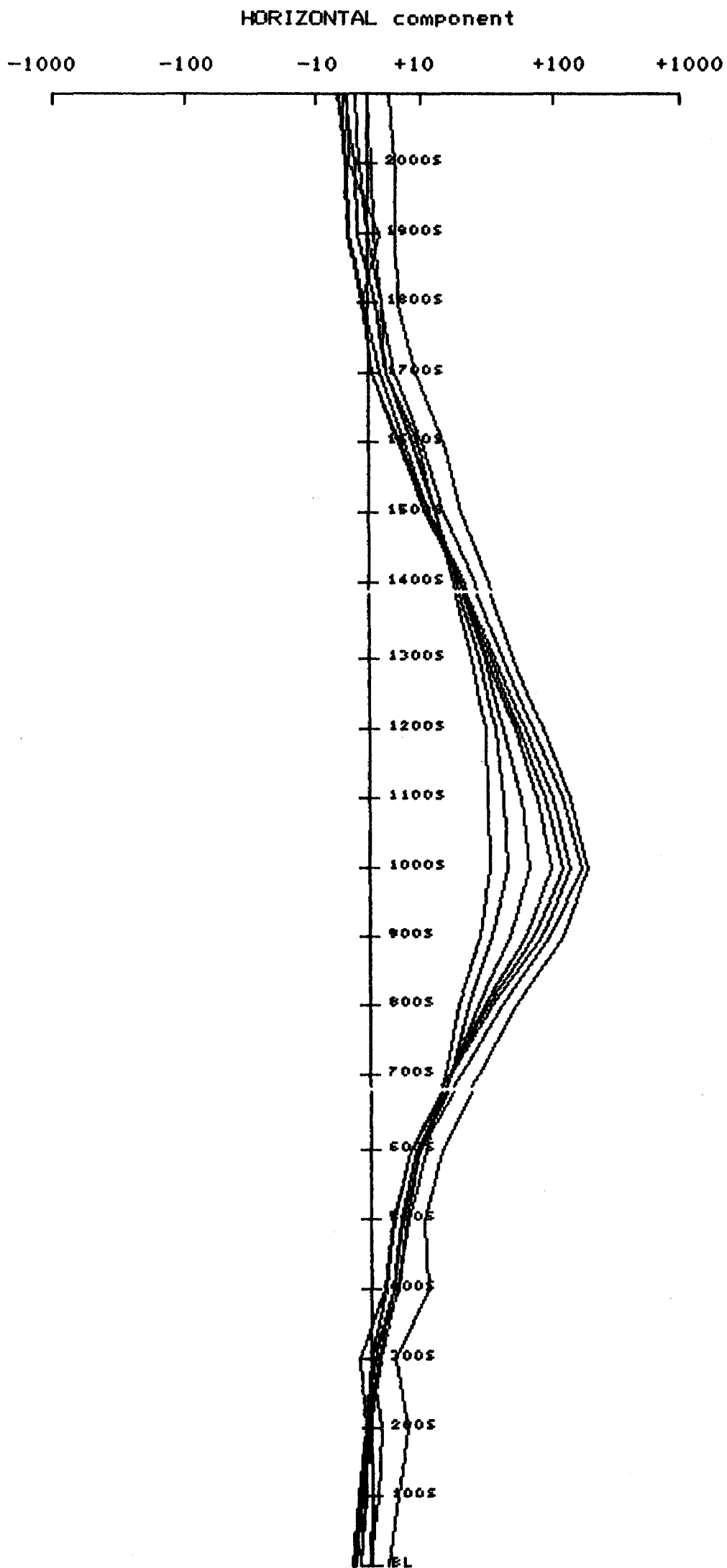


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D48ESEL1:1 SYS 5

GRID TX LINE
150-18 1 48+00E

Scale: 1in= 200ft

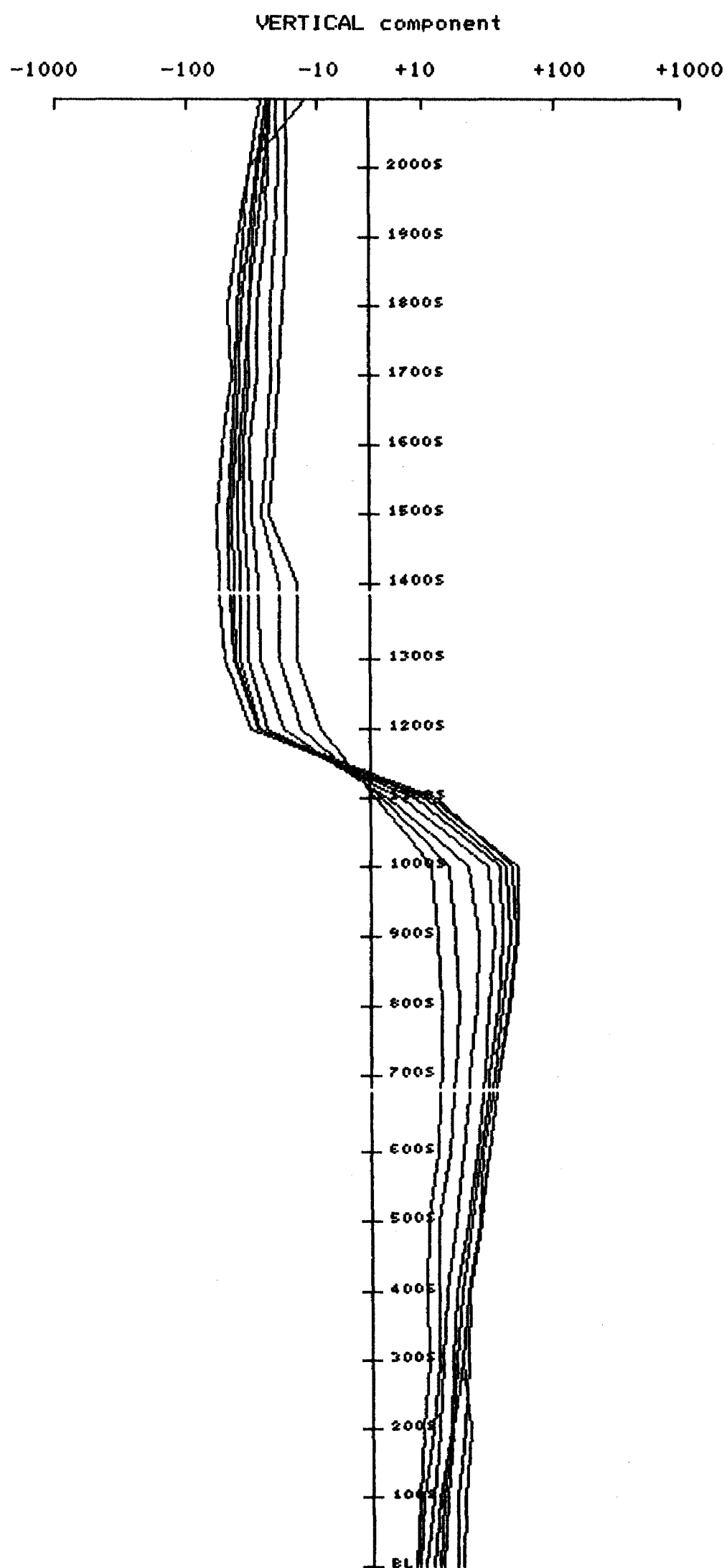


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D52ESEL1:1 SYS 5

GRID TX LINE
150-18 1 52+00E

Scale: 1in= 200ft

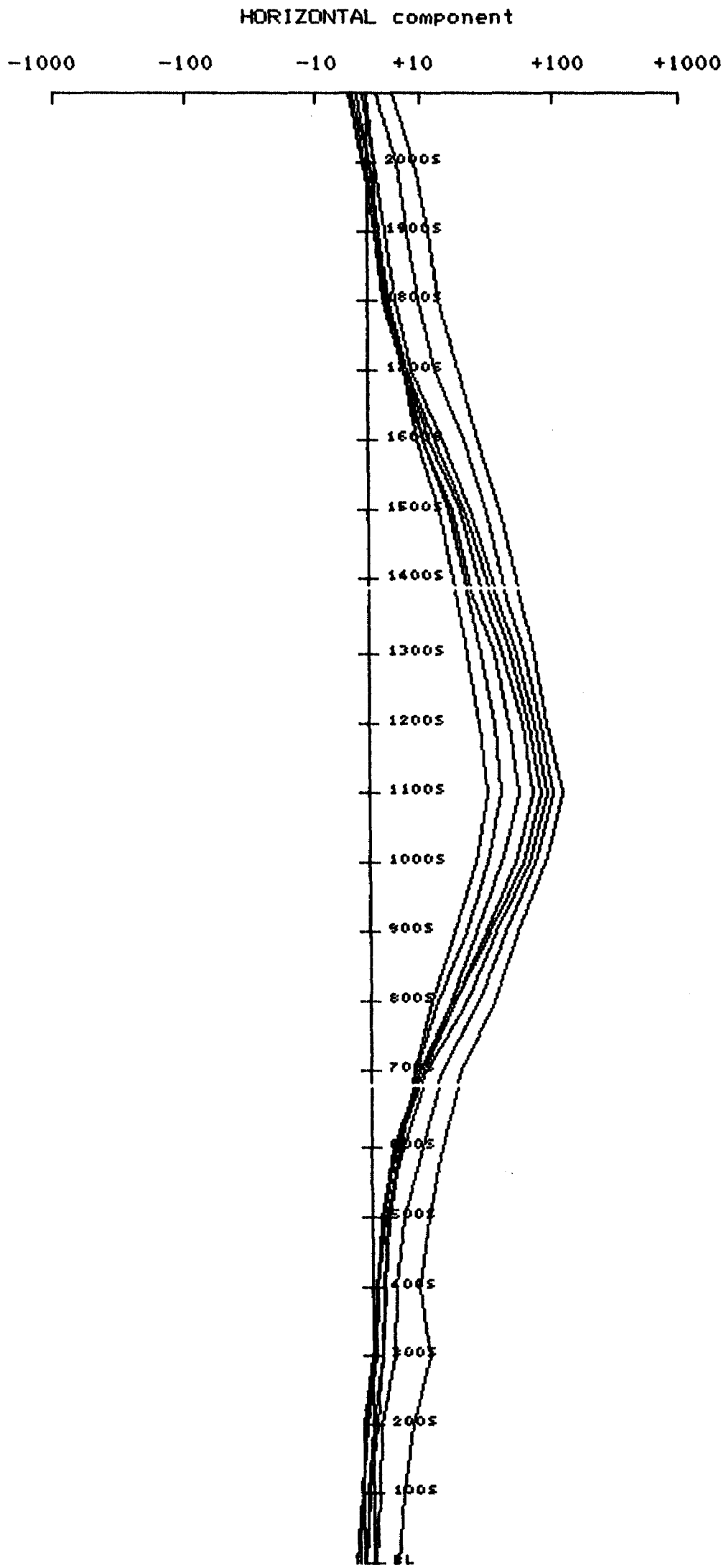


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D52ESEL1:1 SYS 5

GRID TX LINE
150-18 1 52+00E

Scale: 1in= 200ft

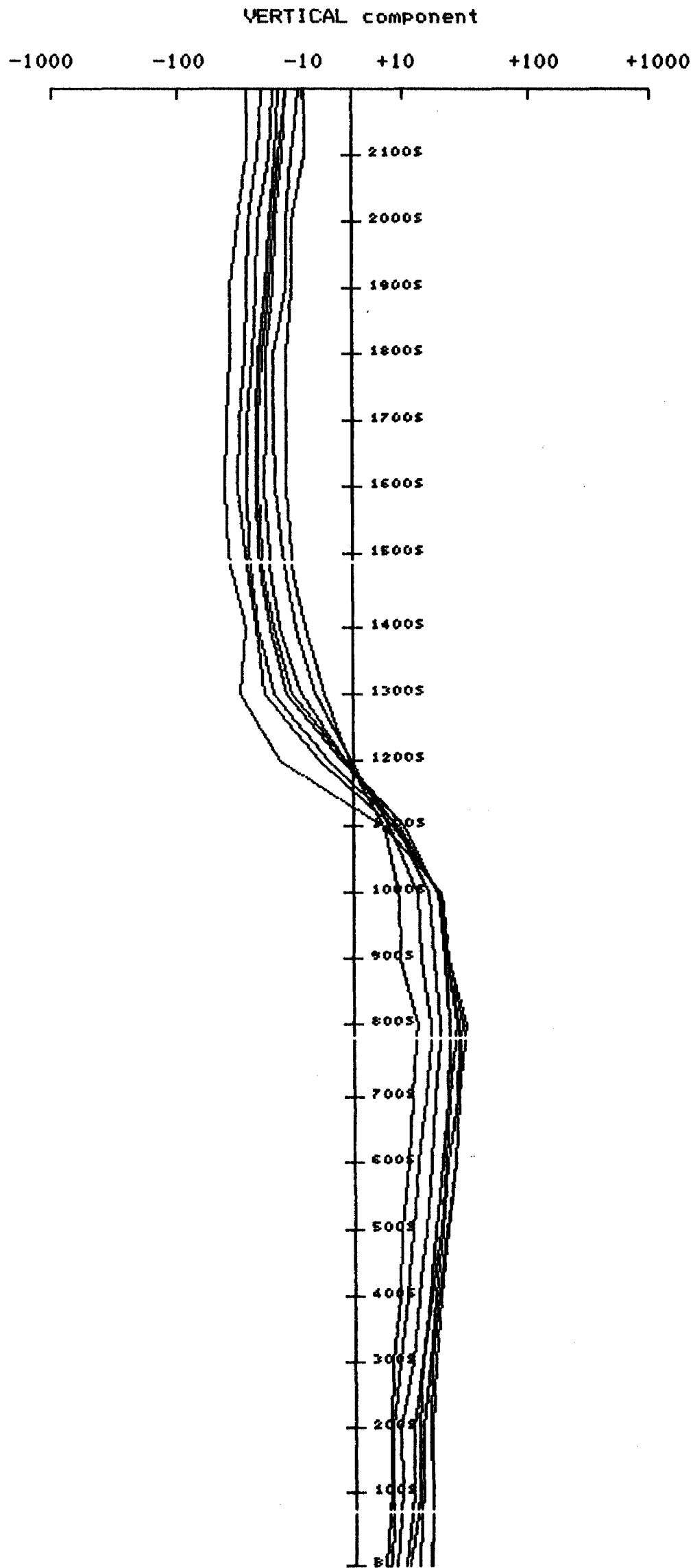


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D56ESEL1:1 SYS 5

GRID TX LINE
150-18 1 56+00E

Scale: 1in= 200ft

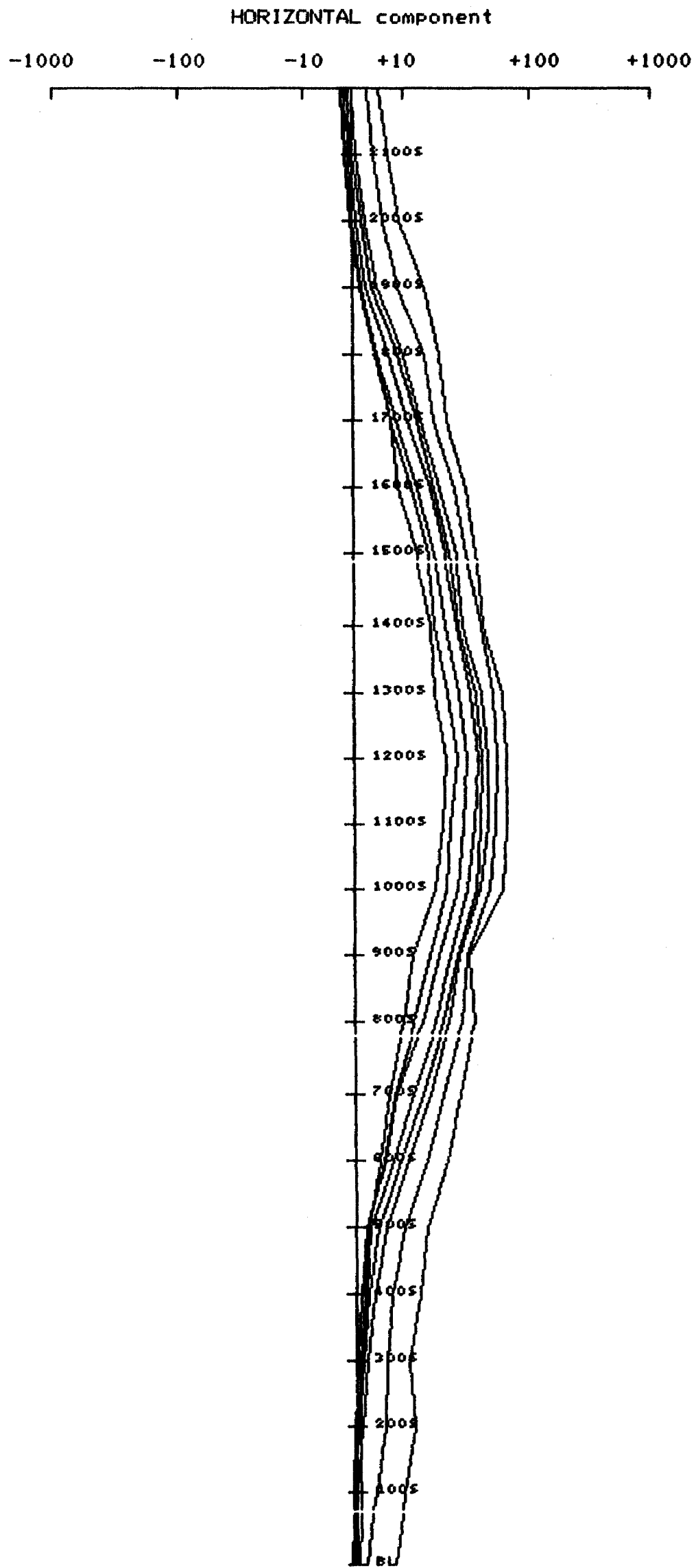


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D56ESEL1:1 SYS 5

GRID TX LINE
150-18 1 56+00E

Scale: 1in= 200ft

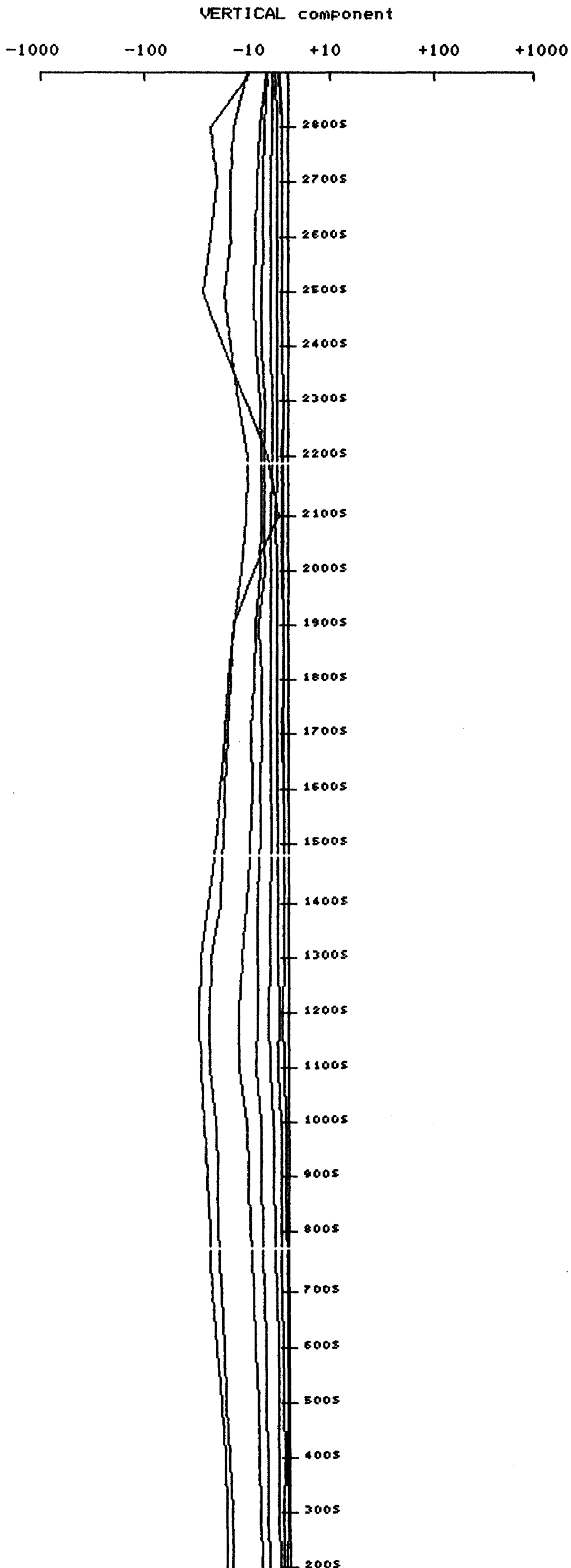


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D12ESEL2:1 SYS 5

GRID TX LINE
150-18 2 12+00E

Scale: 1in= 200ft

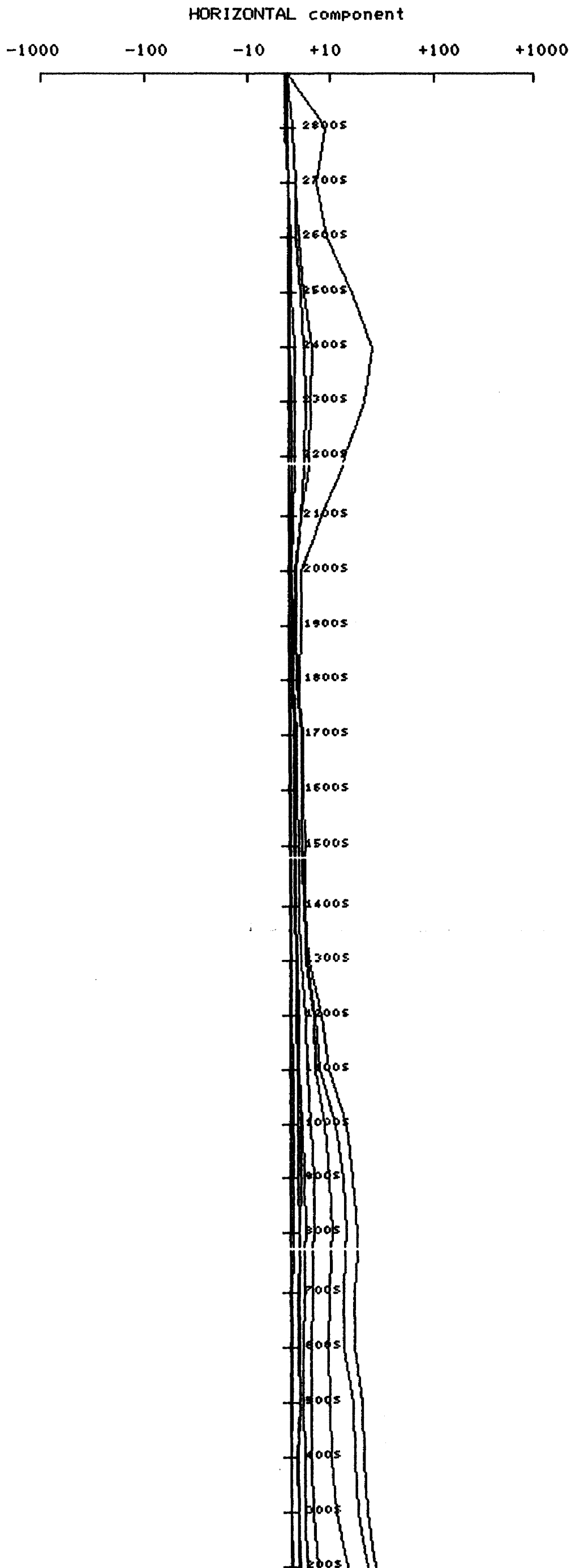


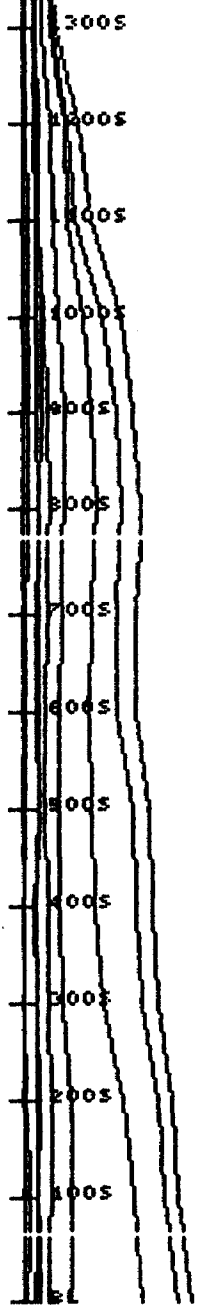
CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D12ESEL2:1 SYS 5

GRID TX LINE
150-18 2 12+00E

Scale: 1in= 200ft



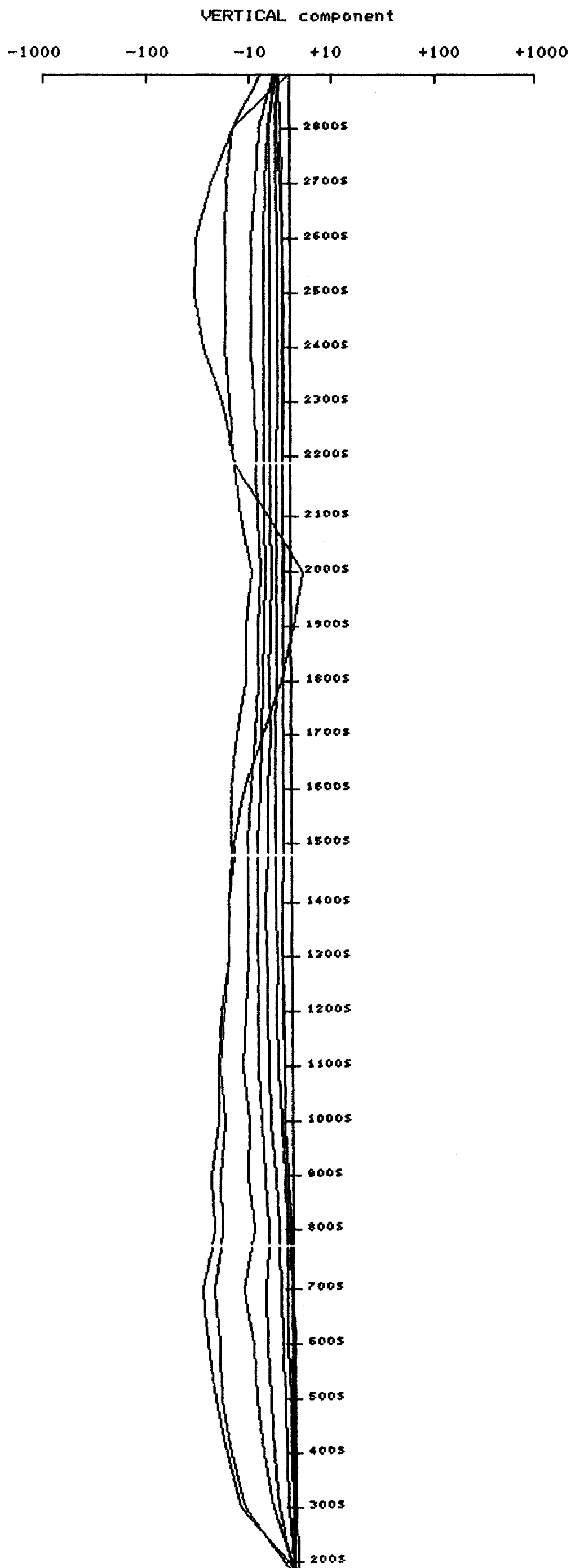


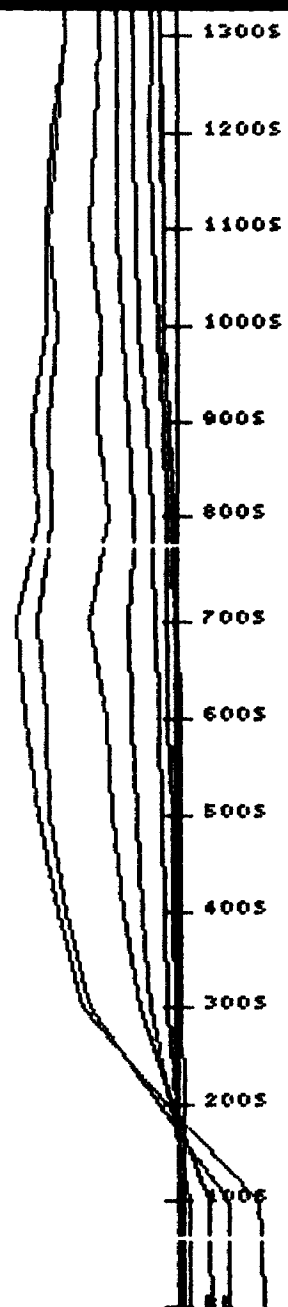
CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D16ESEL2:1 SYS 5

GRID TX LINE
150-18 2 16+00E

Scale: 1in= 200ft





CRONE GEOPHYSICS LIMITED
DEEPEM

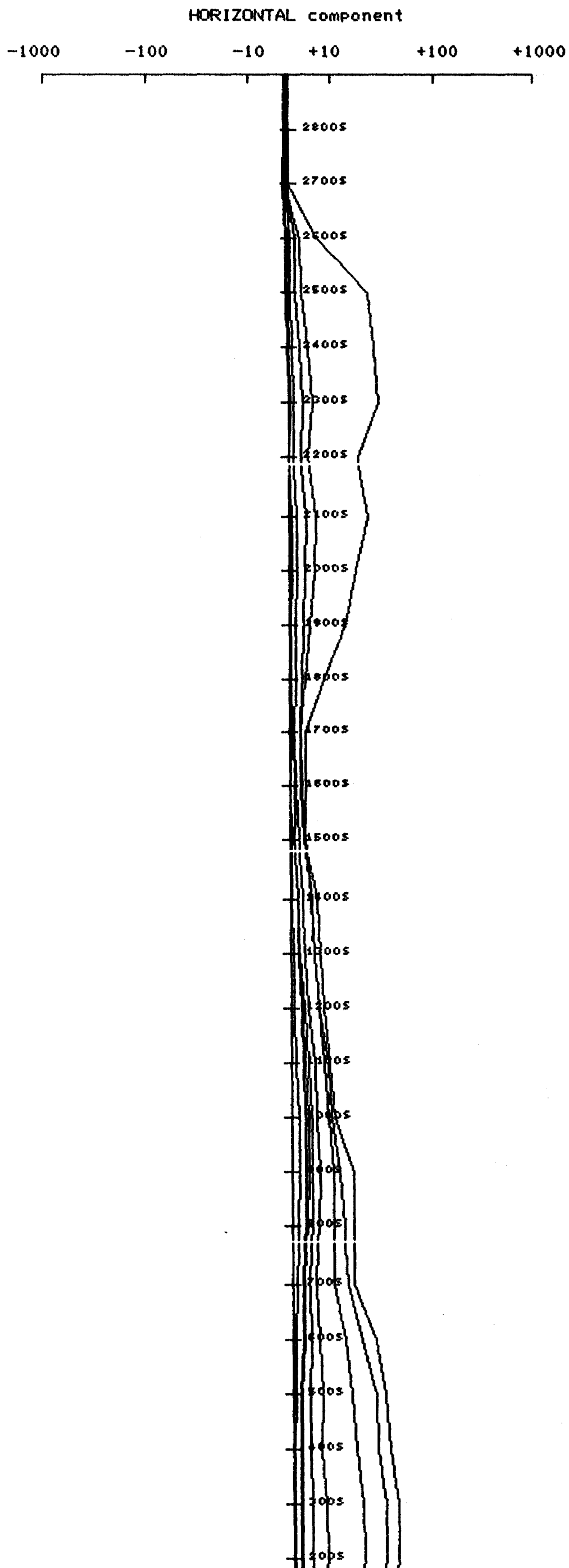
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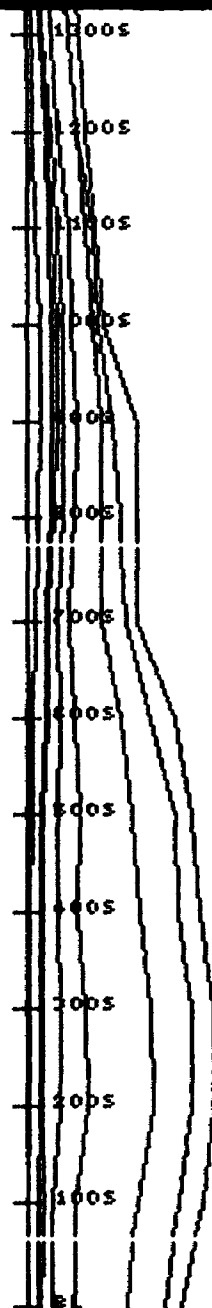
GRID
150-18

TX
2

LINE
16+00E

Scale: 1in= 200ft



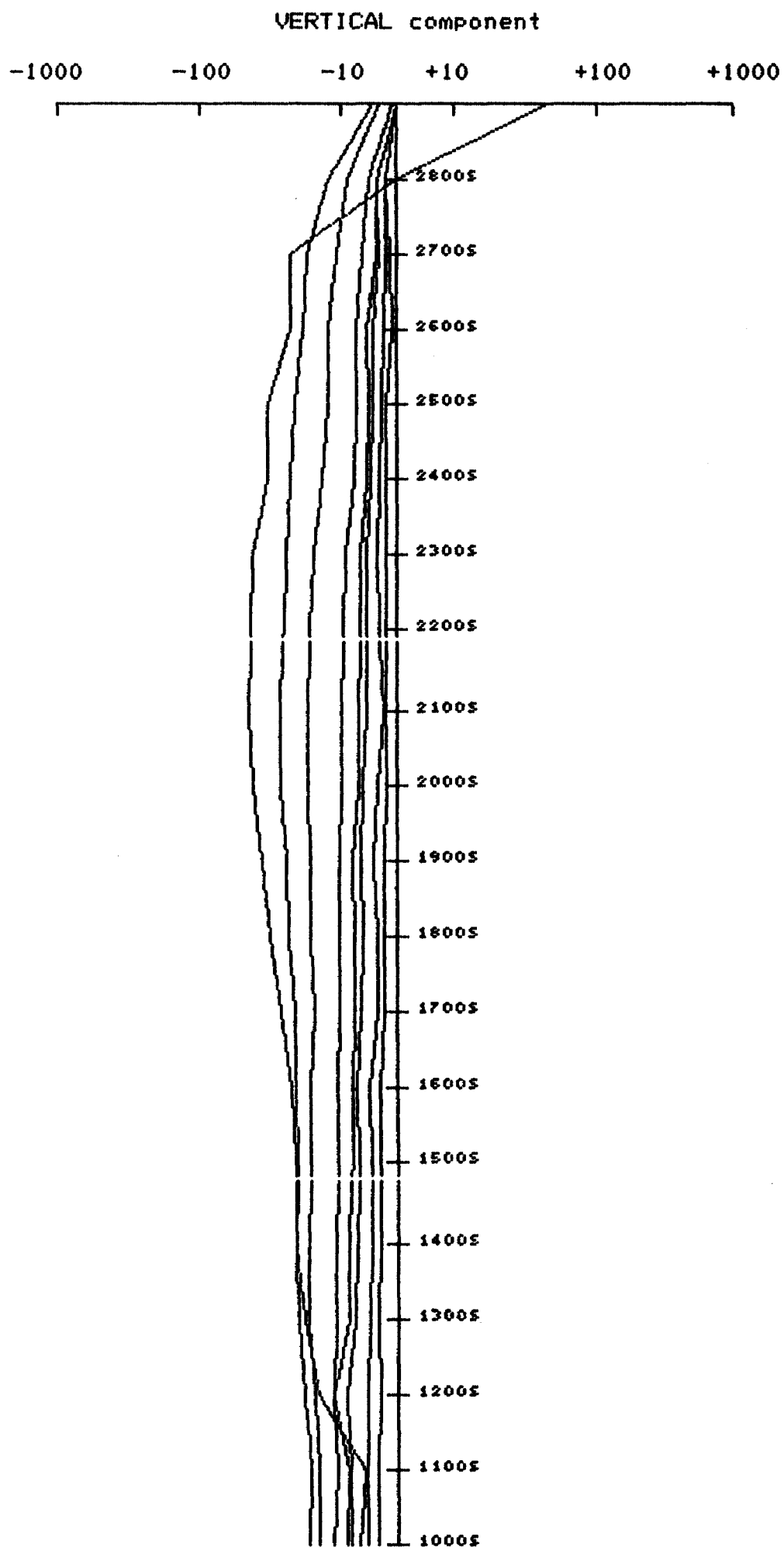


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D20ESEL2:1 SYS 5

GRID TX LINE
150-18 2 20+00E

Scale: 1in= 200ft

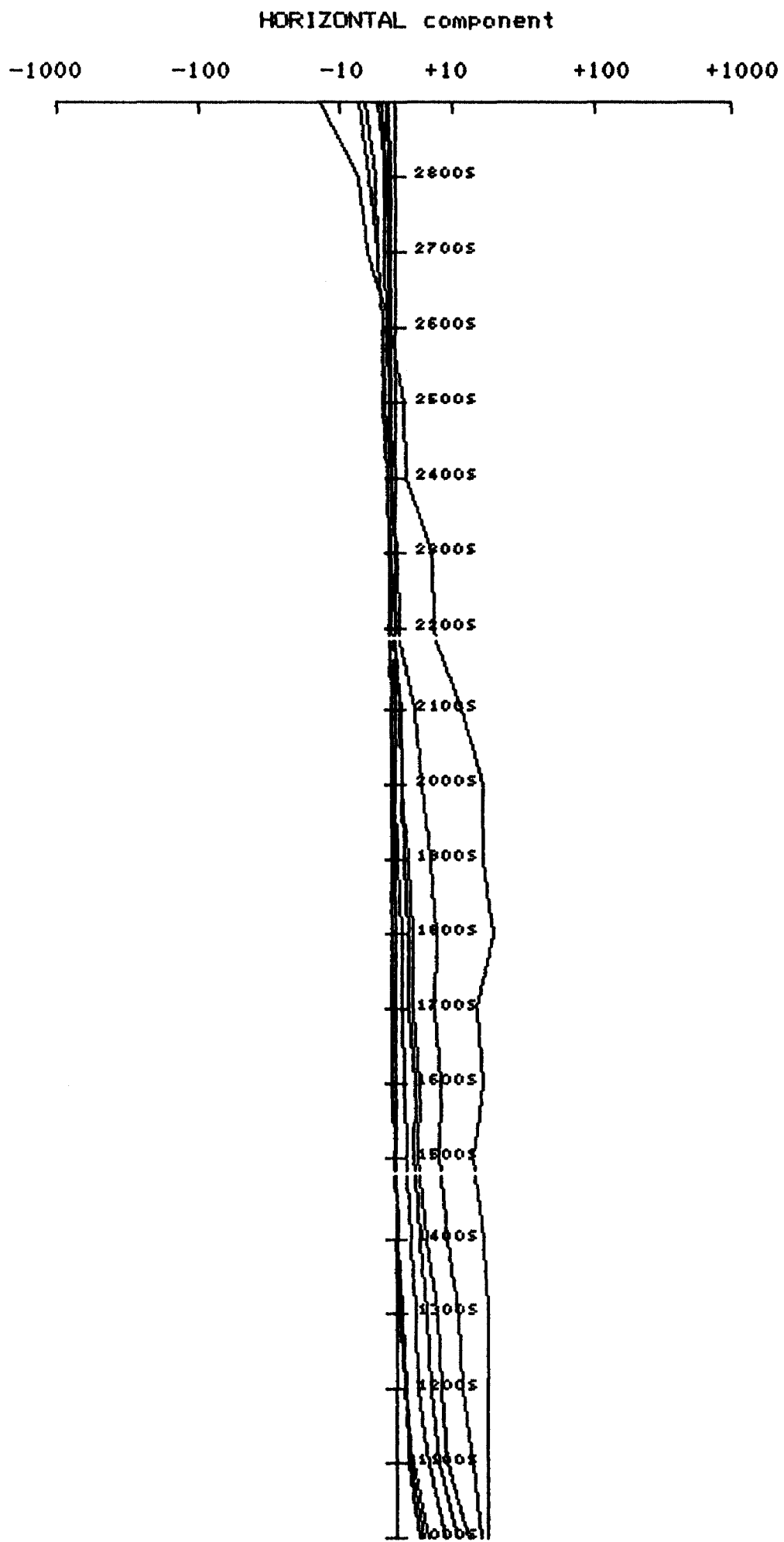


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D20ESEL2:1 SYS 5

GRID TX LINE
150-18 2 20+00E

Scale: 1in= 200ft

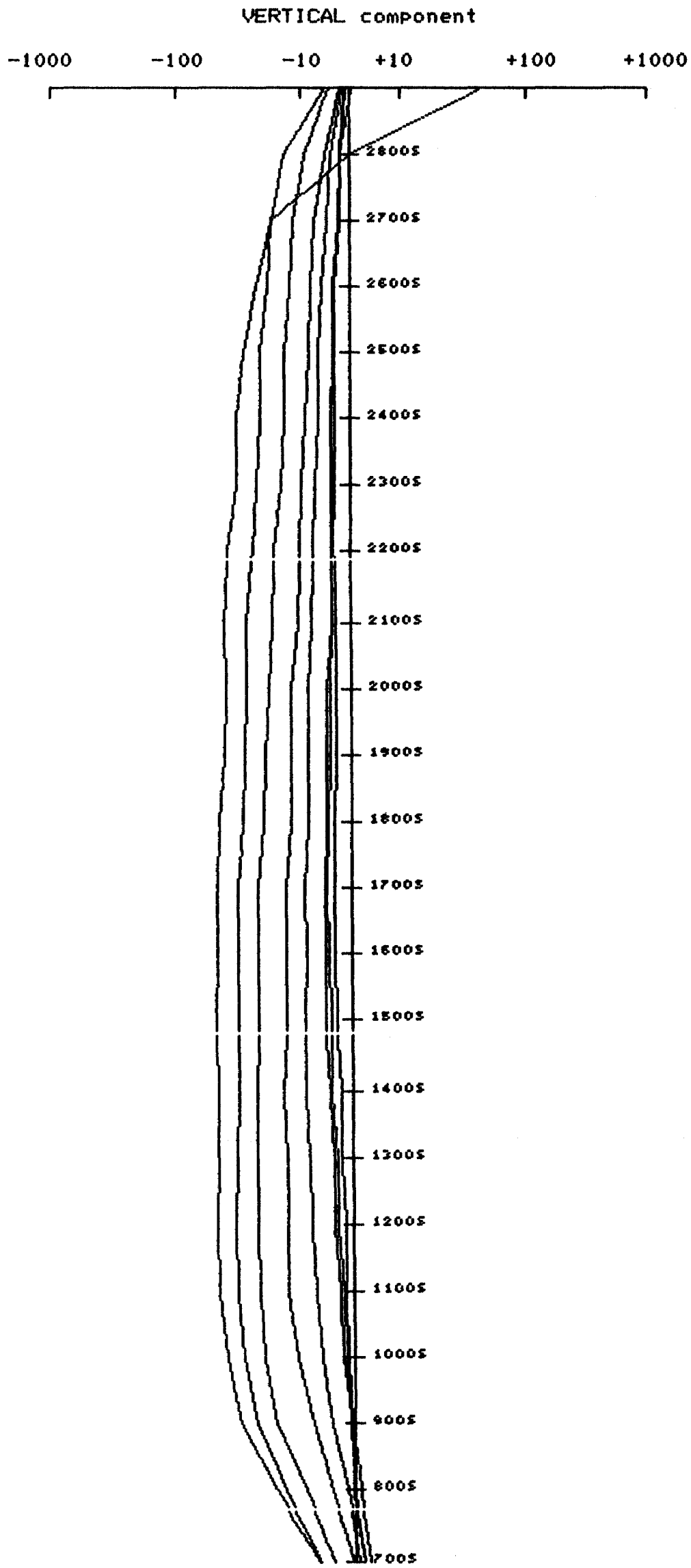


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D24ESEL2:1 SYS 5

GRID TX LINE
150-18 2 24+00E

Scale: 1in= 200ft

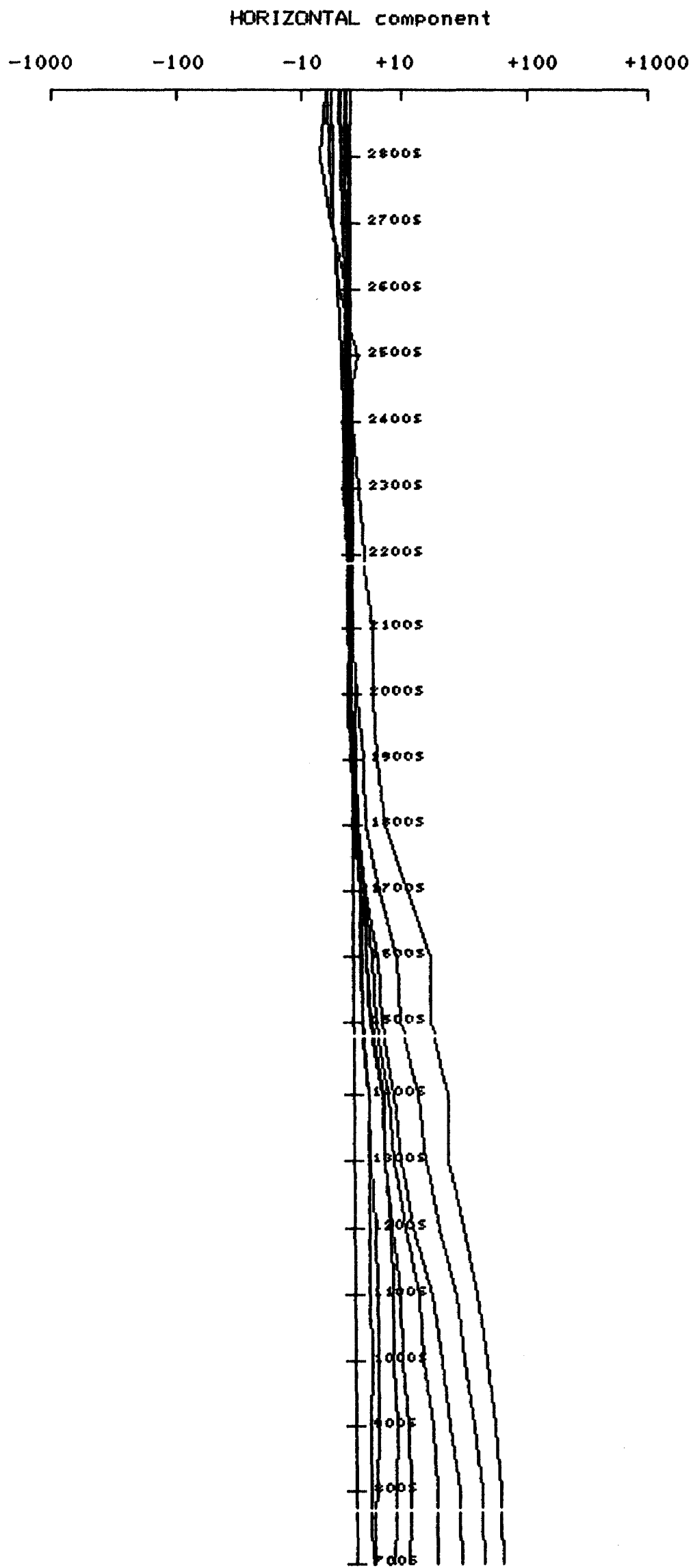


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D24ESEL2:1 SYS 5

GRID TX LINE
150-18 2 24+00E

Scale: 1in= 200ft

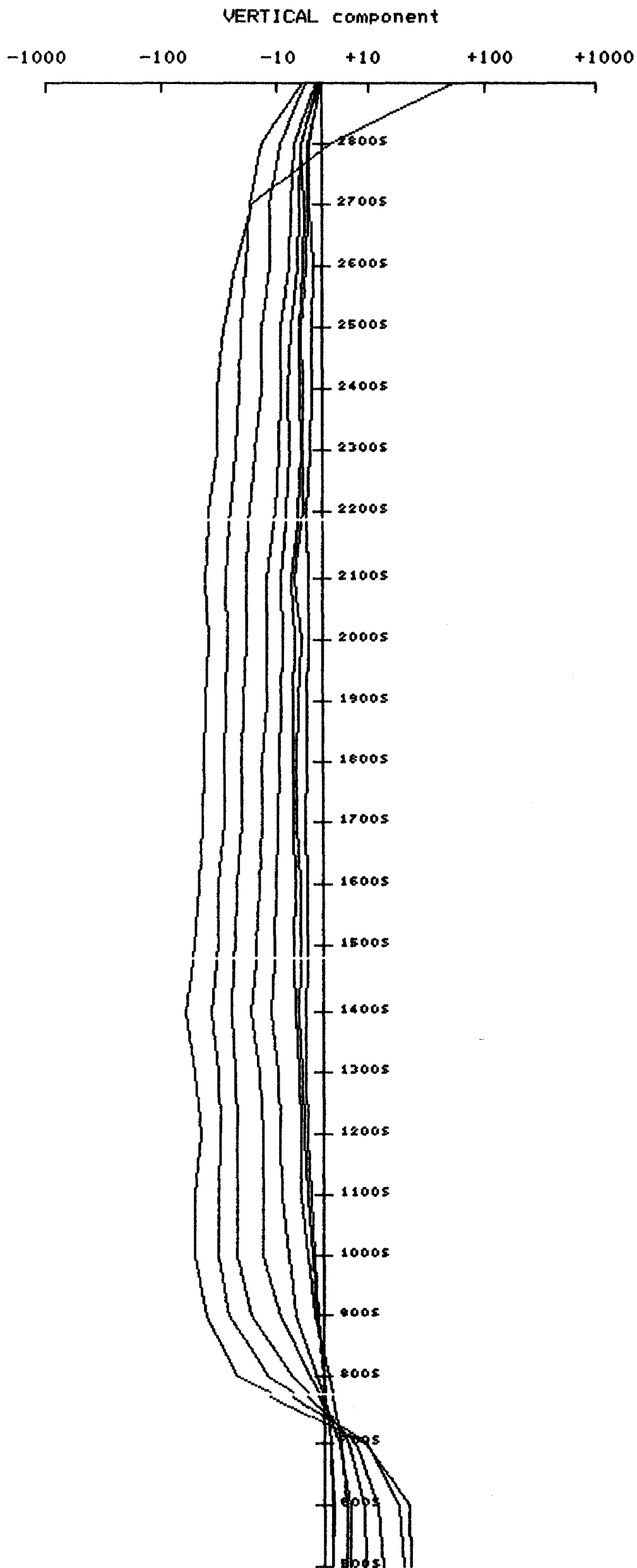


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D28ESEL2:1 SYS 5

GRID TX LINE
150-18 2 28+00E

Scale: 1in= 200ft

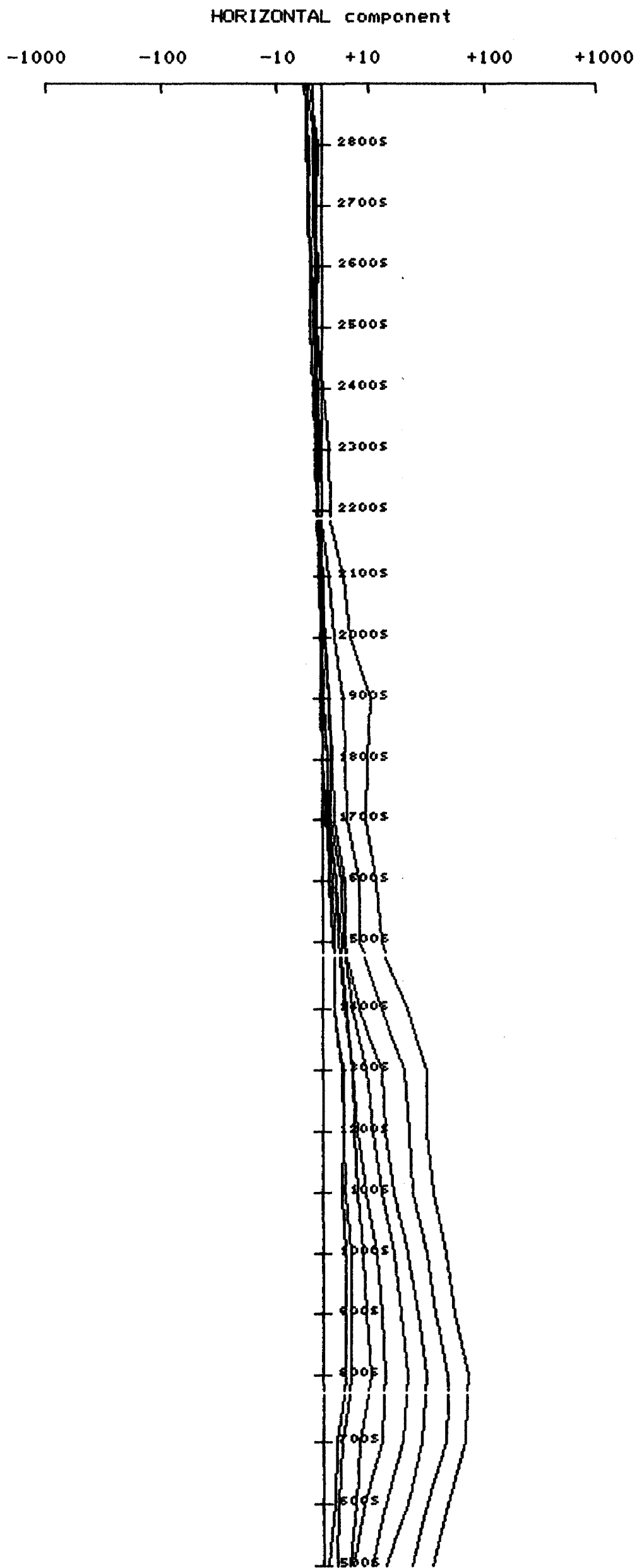


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D2BESEL2:1 SYS 5

GRID TX LINE
150-18 2 28+00E

Scale: 1in= 200ft

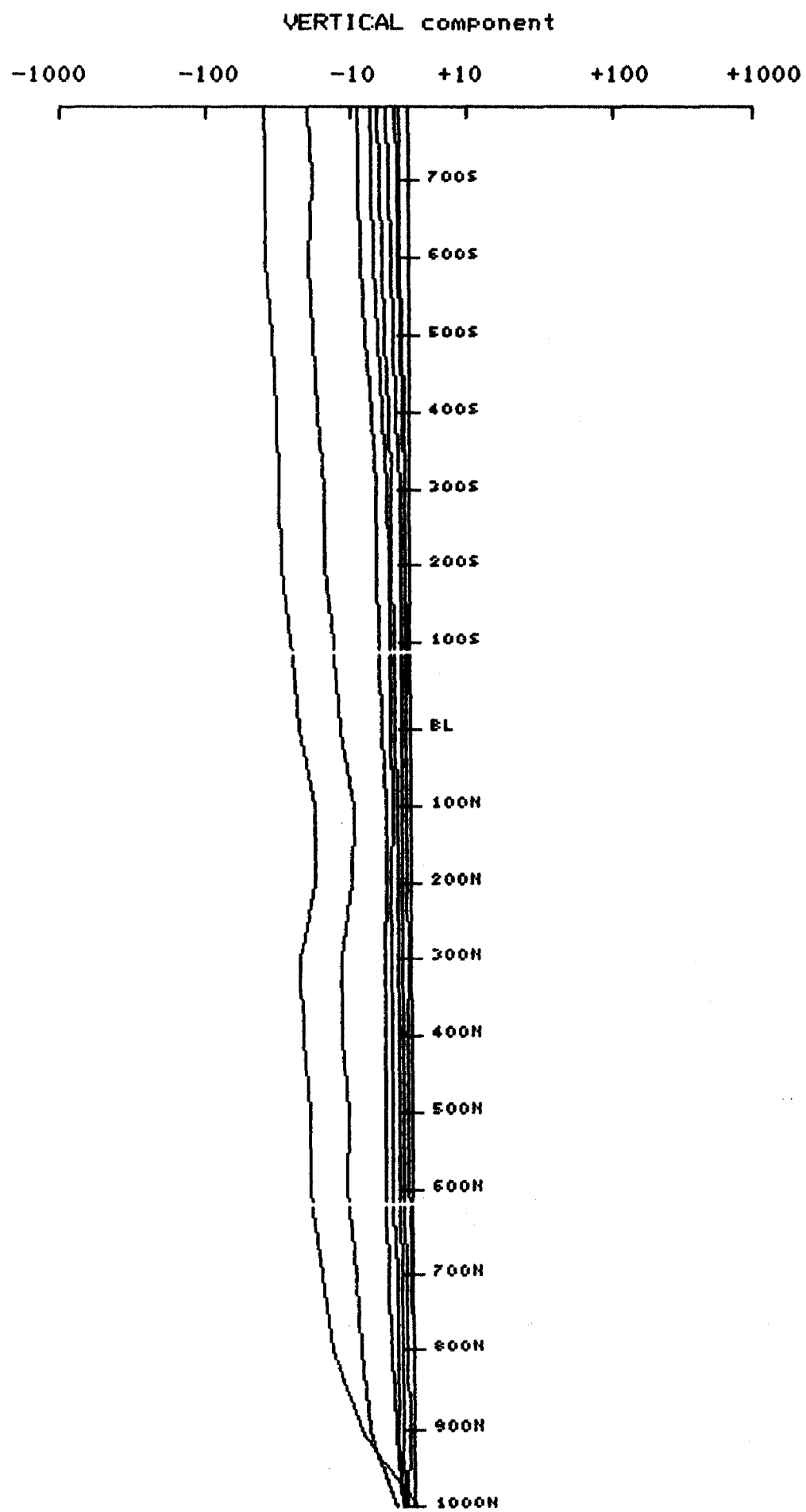


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D4ESEL3:1 SYS 5

GRID TX LINE
150-17 3 4+00 E

Scale: 1in= 200ft

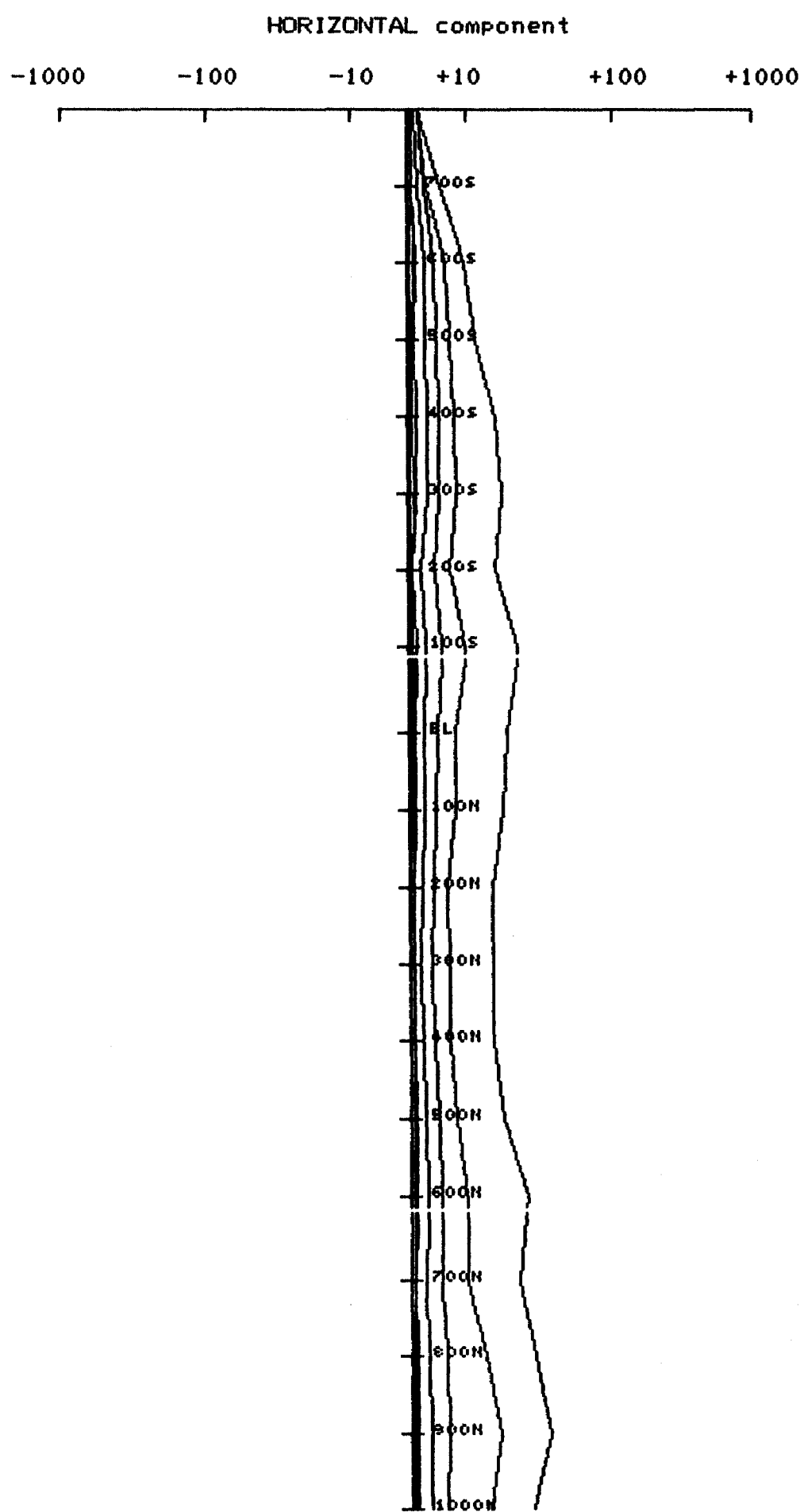


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D4ESEL3:1 SYS 5

GRID TX LINE
150-17 3 4+00 E

Scale: 1in= 200ft

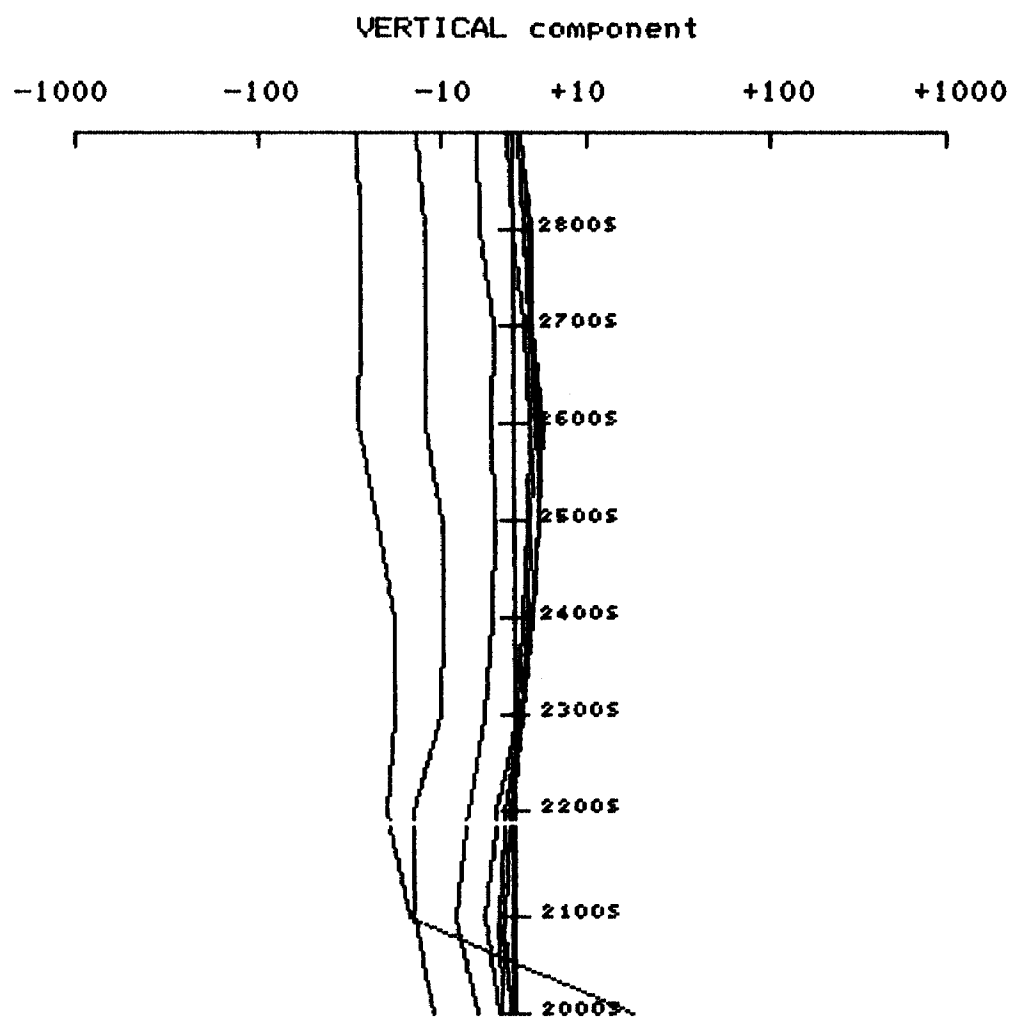


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D8ESEL3S:1 SYS 5

GRID TX LINE
150-17 3 8+00 E

Scale: 1in= 200ft

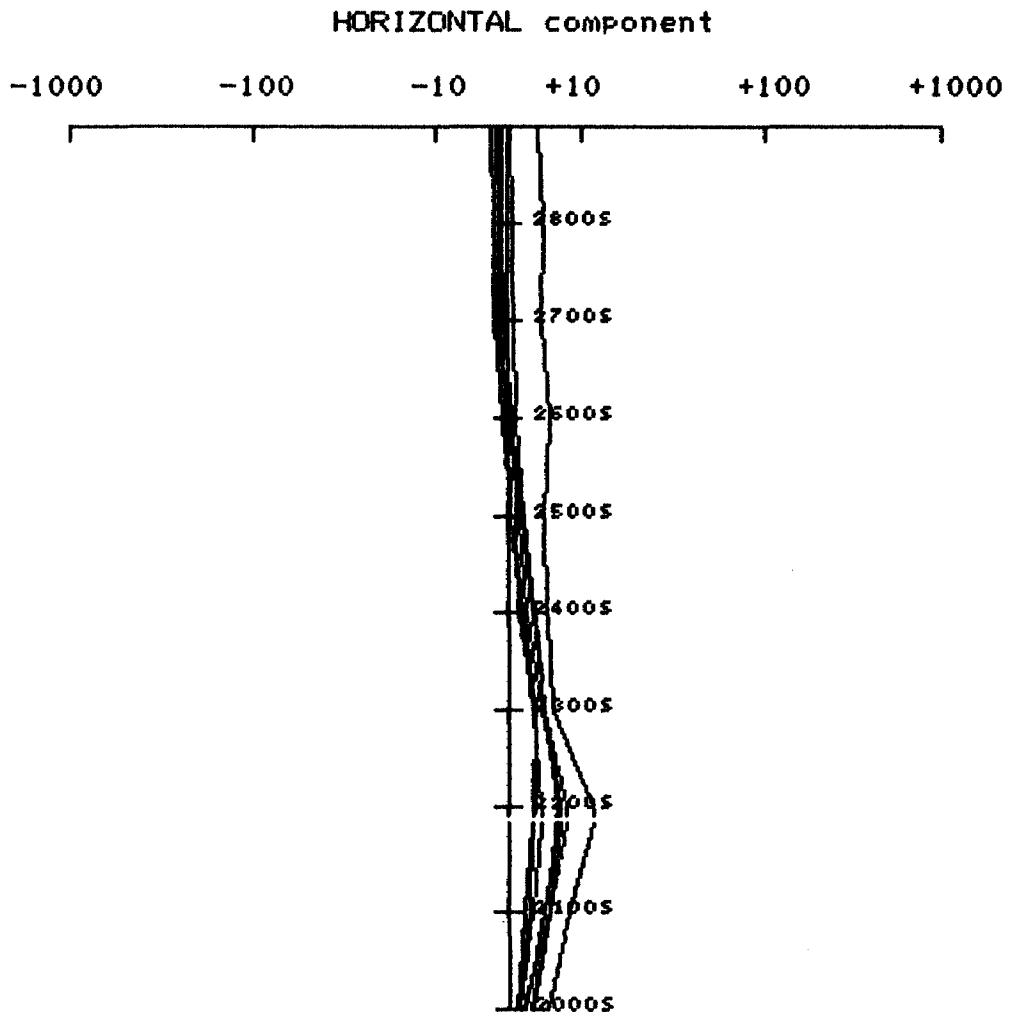


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: DBESEL3S:1 SYS 5

GRID TX LINE
150-17 3 8+00 E

Scale: 1in= 200ft

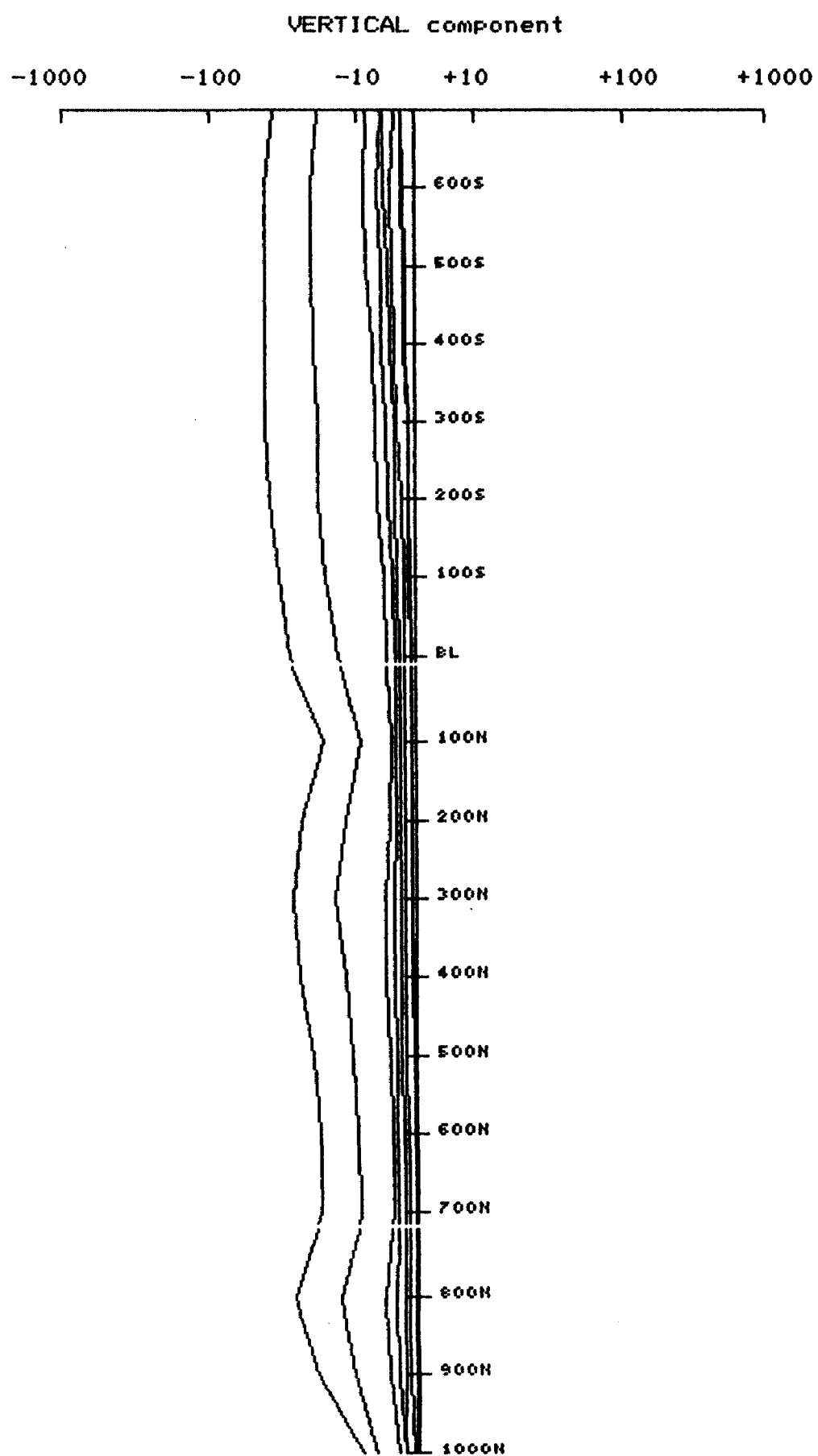


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: DBESEL3N:1 SYS 5

GRID TX LINE
150-17 3 B+00 E

Scale: 1in= 200ft

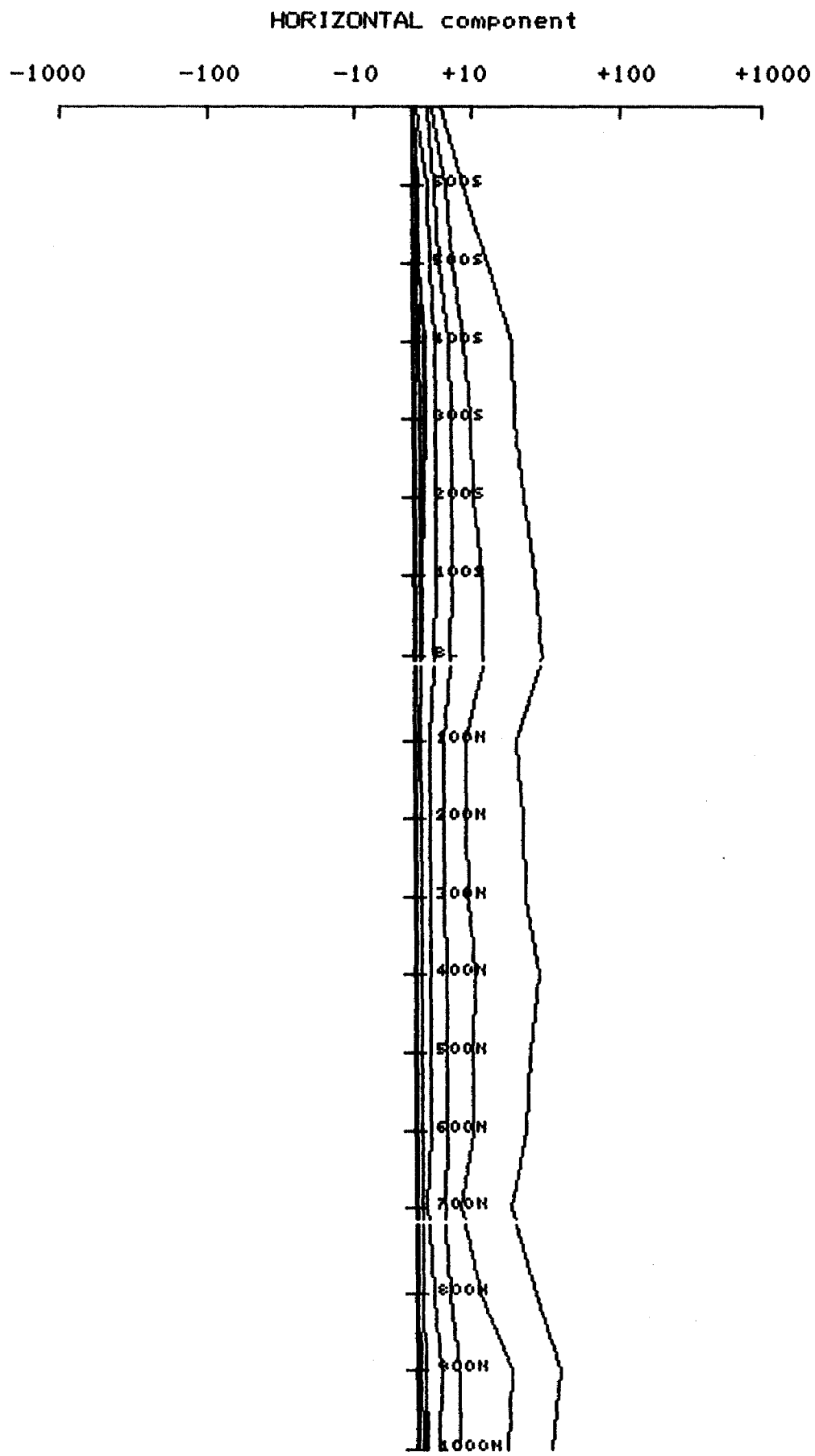


CRONE GEOPHYSICS LIMITED
DEEPEM

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GRID TX LINE
150-17 3 B+00 E

Scale: 1in= 200ft

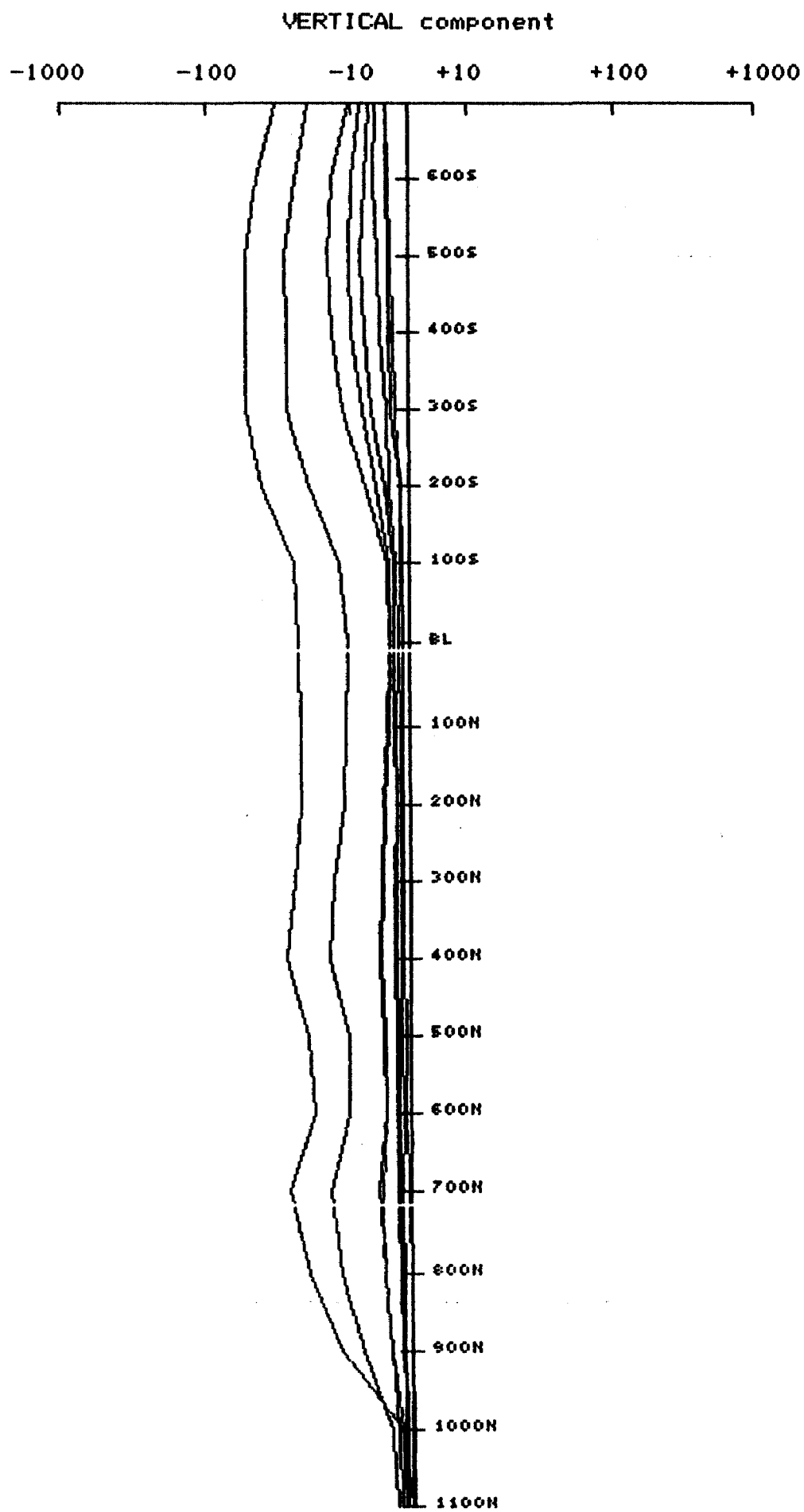


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D12ESEL3:1 SYS 5

GRID TX LINE
150-17 3 12+00E

Scale: 1in= 200ft

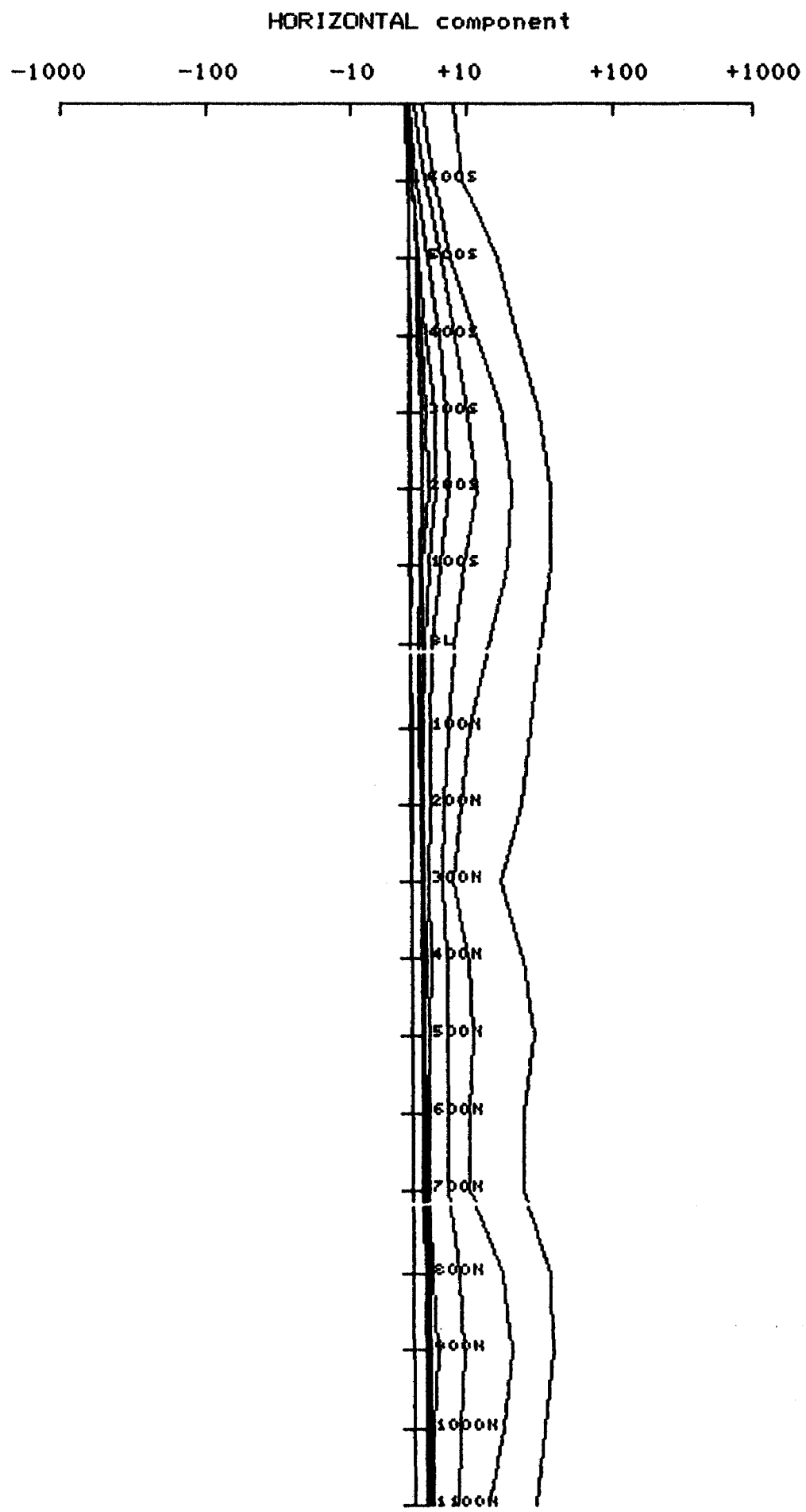


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D12ESEL3:1 SYS 5

GRID TX LINE
150-17 3 12+00E

Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
DEEPEM

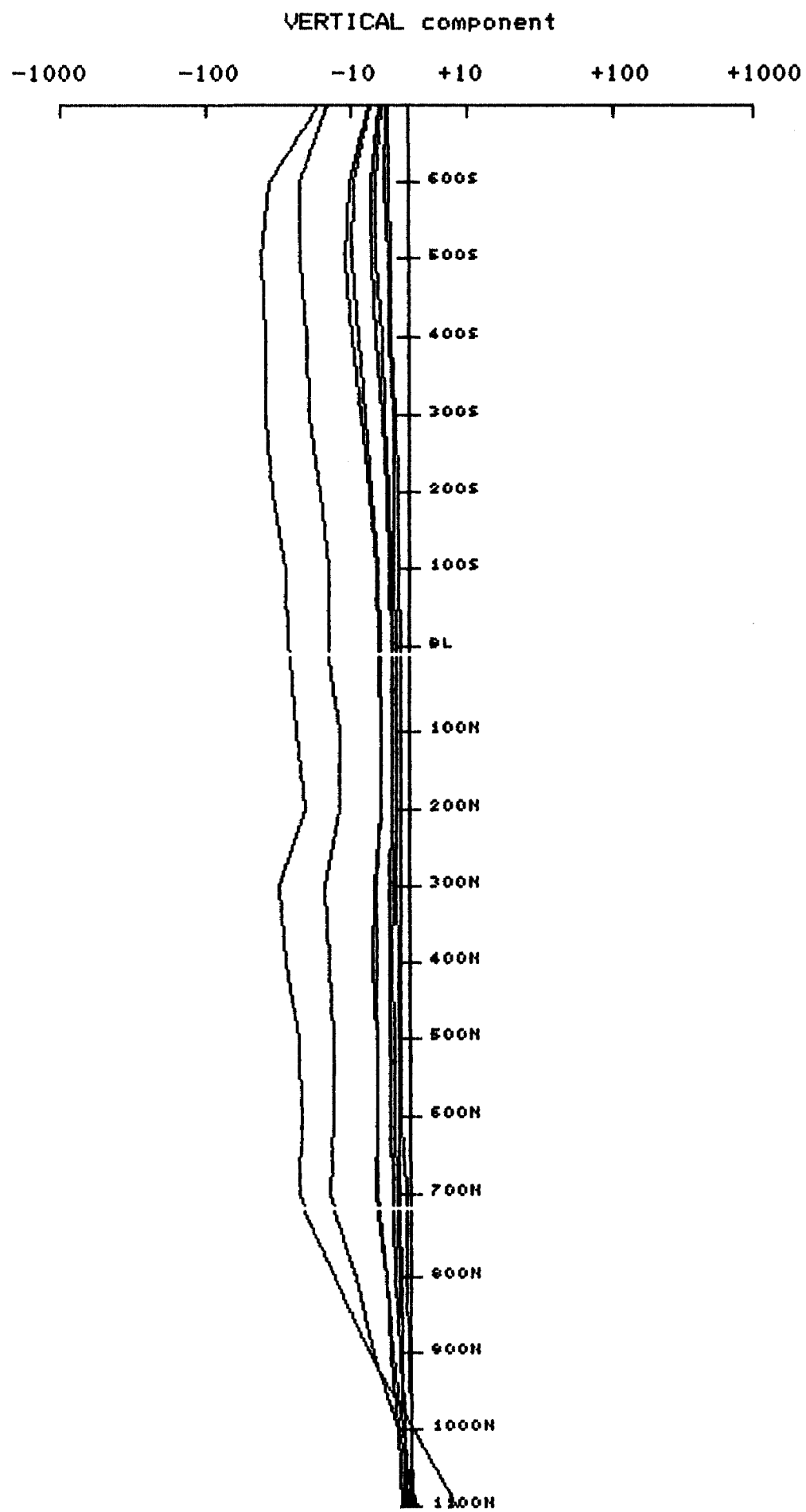
FILE: D16ESE3N:1 SYS 5

GRID
150-17

TX
3

LINE
16+00E

Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
DEEPEM

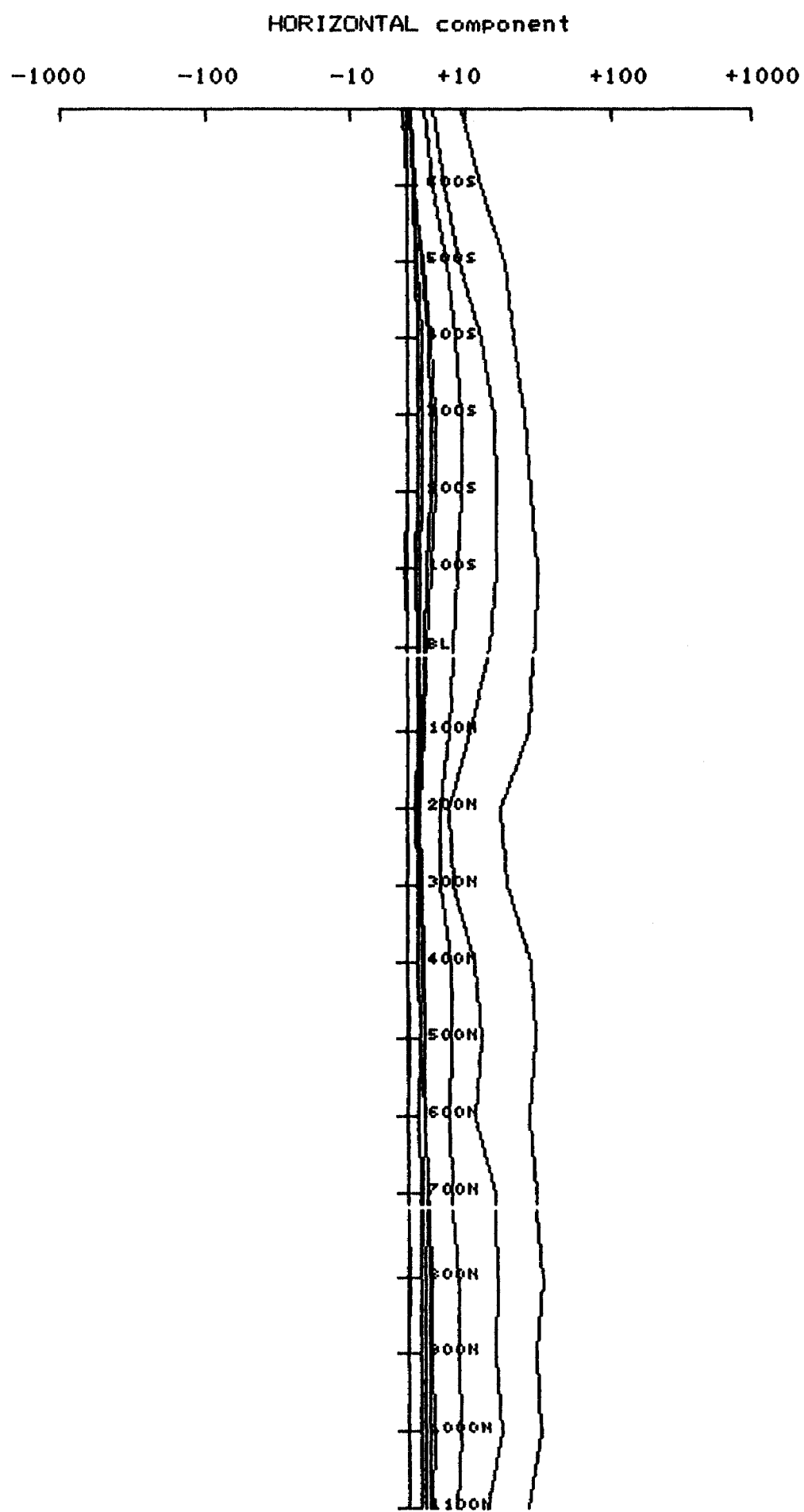
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GRID
150-17

TX
3

LINE
16+00E

Scale: 1in= 200ft

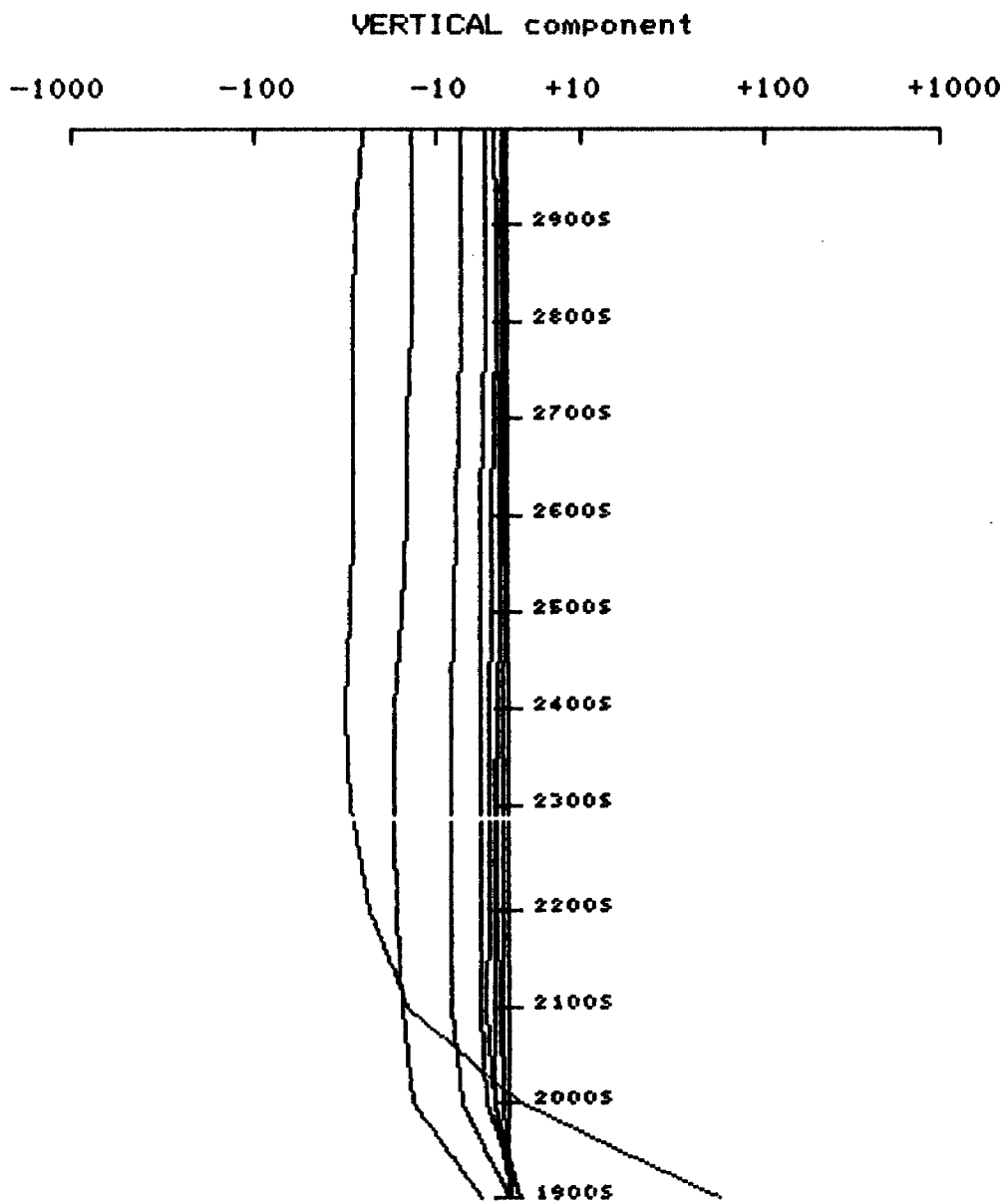


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D16ESE3S:1 SYS 5

GRID TX LINE
150-17 3 16+00E

Scale: 1in= 200ft

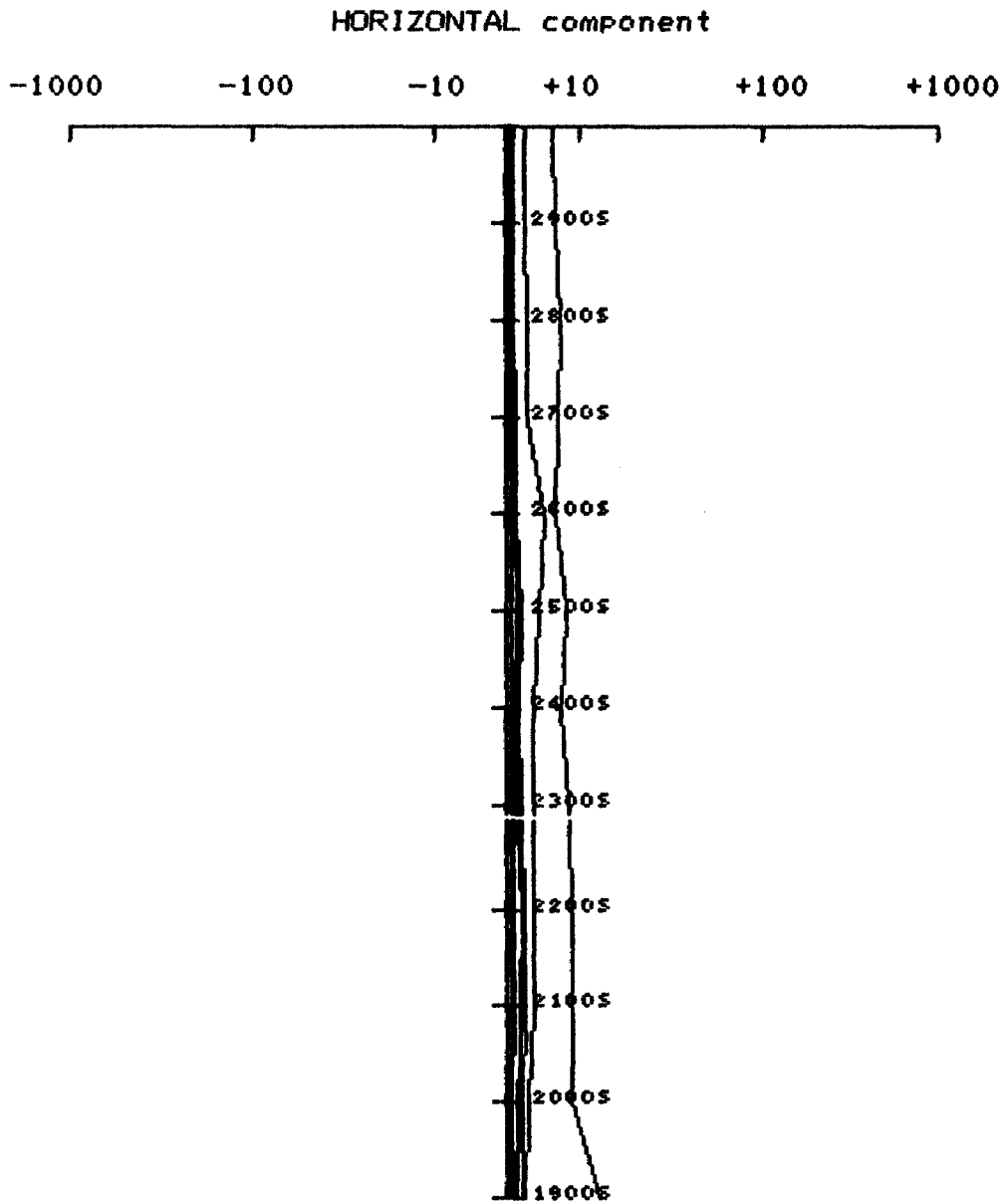


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D16ESE3S:1 SYS 5

GRID TX LINE
150-17 3 16+00E

Scale: 1in= 200ft

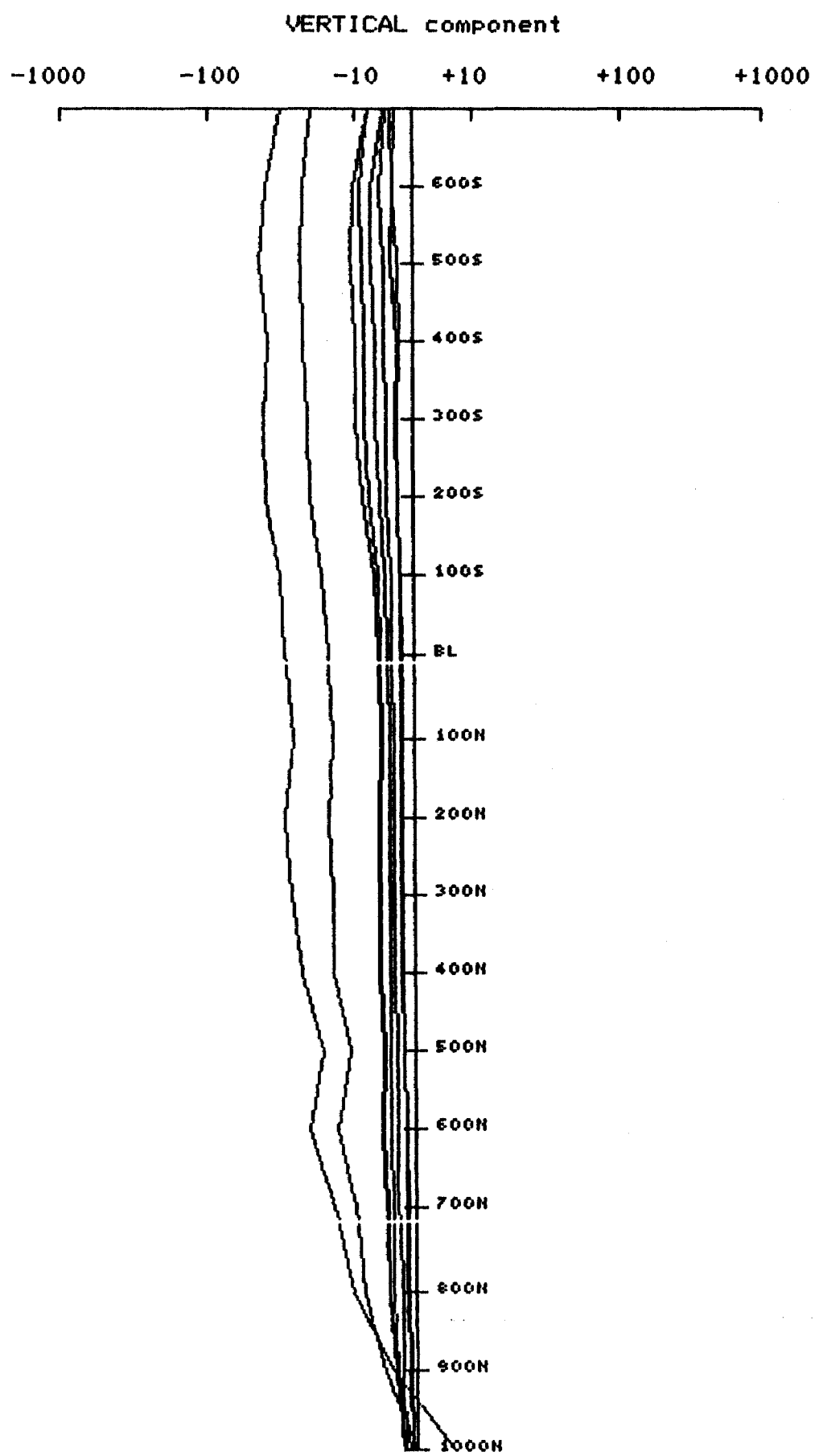


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D20ESEL3:1 SYS 5

GRID TX LINE
150-17 3 20+00E

Scale: 1in= 200ft

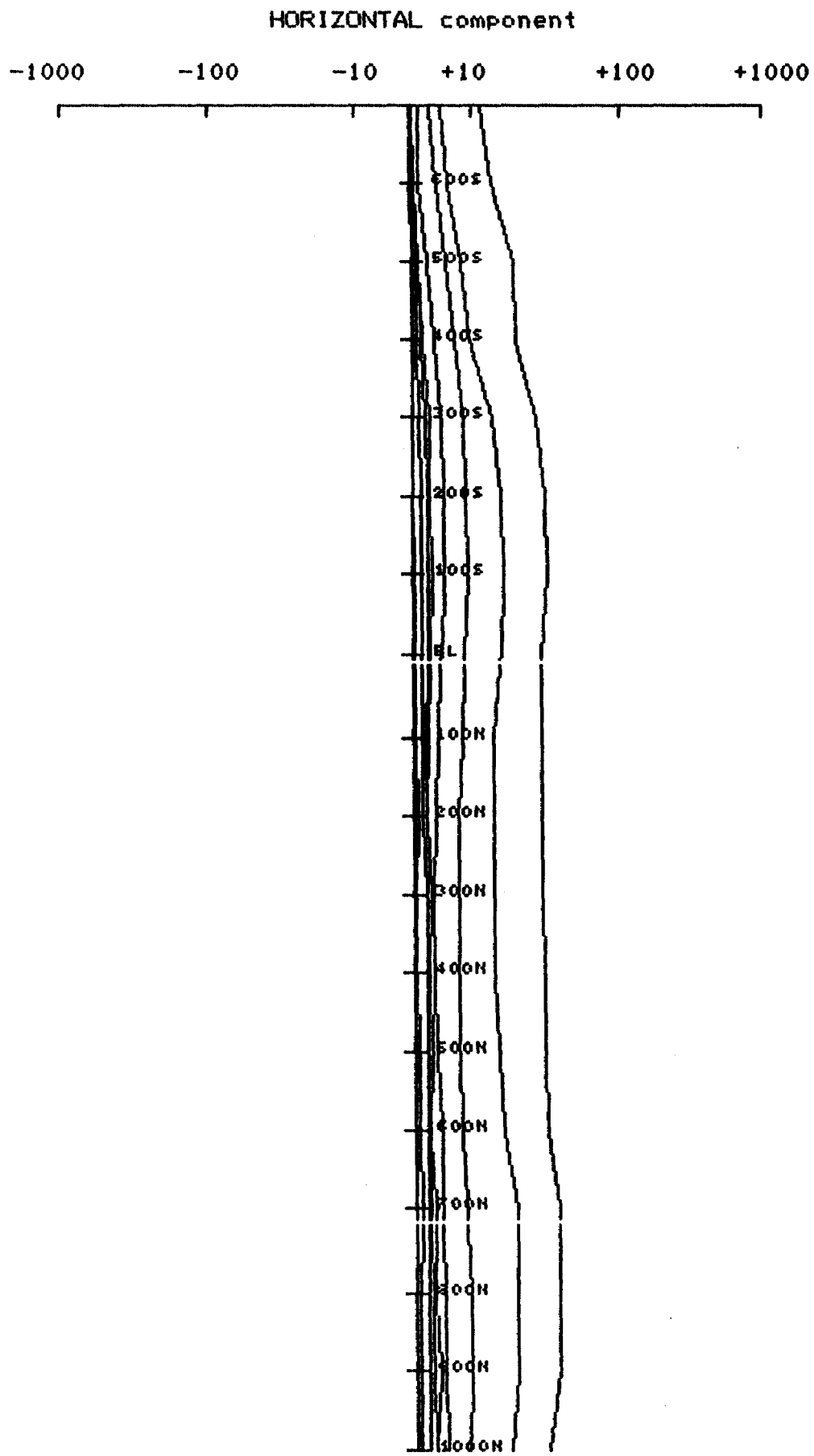


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D20ESEL3:1 SYS 5

GRID TX LINE
150-17 3 20+00E

Scale: 1in= 200ft

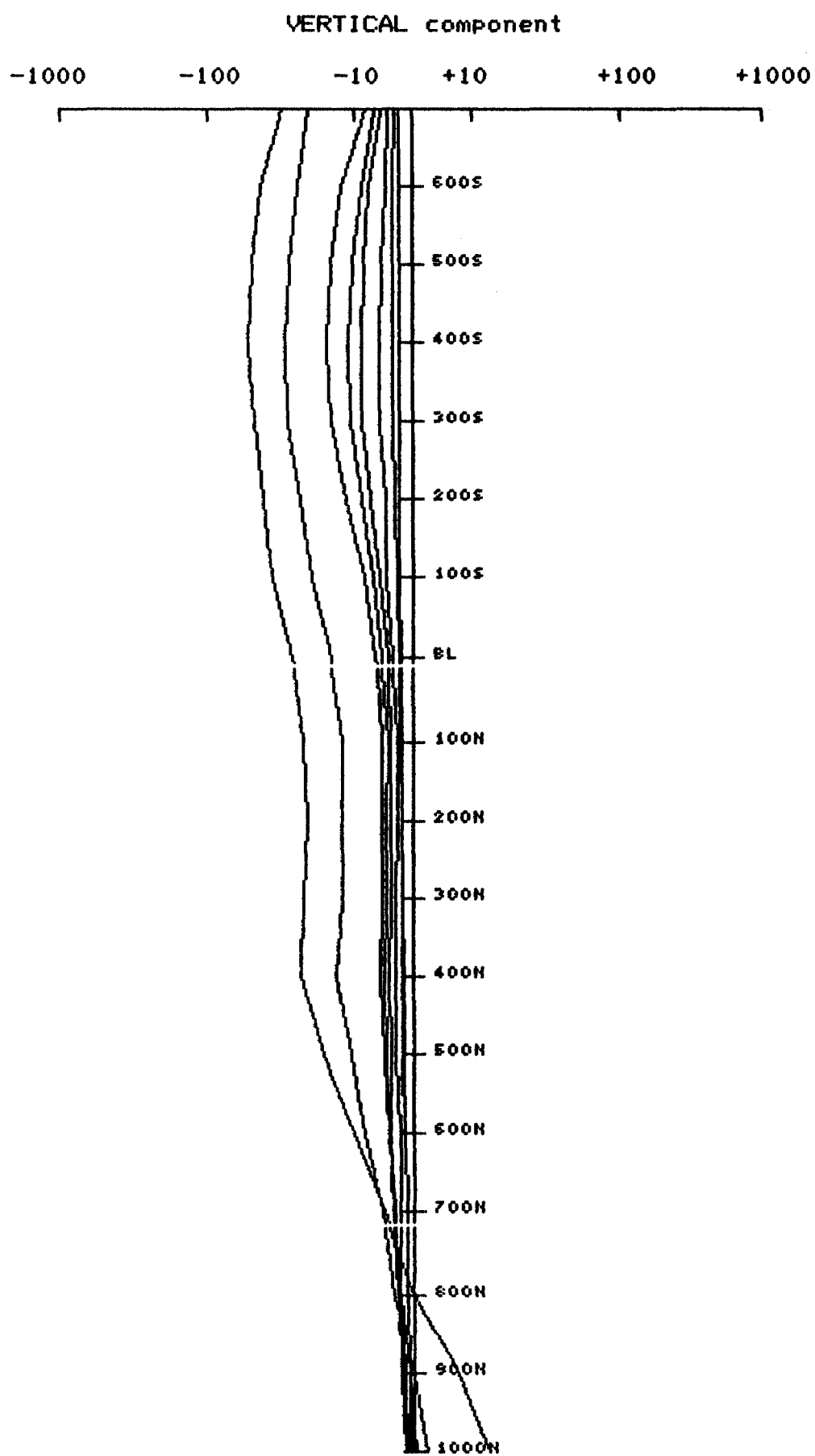


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D24ESEL3:1 SYS 5

GRID TX LINE
150-17 3 24+00E

Scale: 1in= 200ft

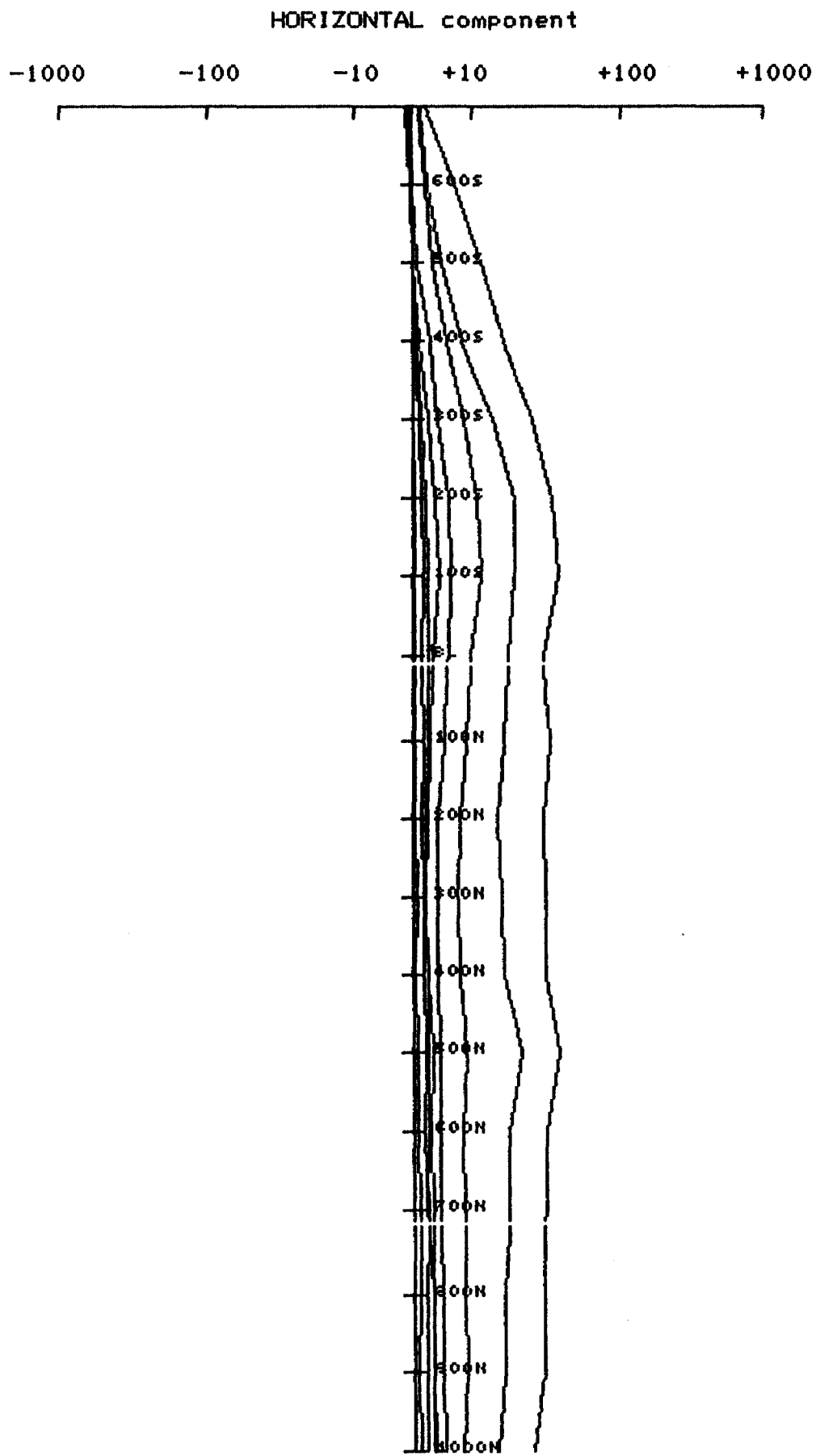


CRONE GEOPHYSICS LIMITED
DEEPEM

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GRID TX LINE
150-17 3 24+00E

Scale: 1in= 200ft

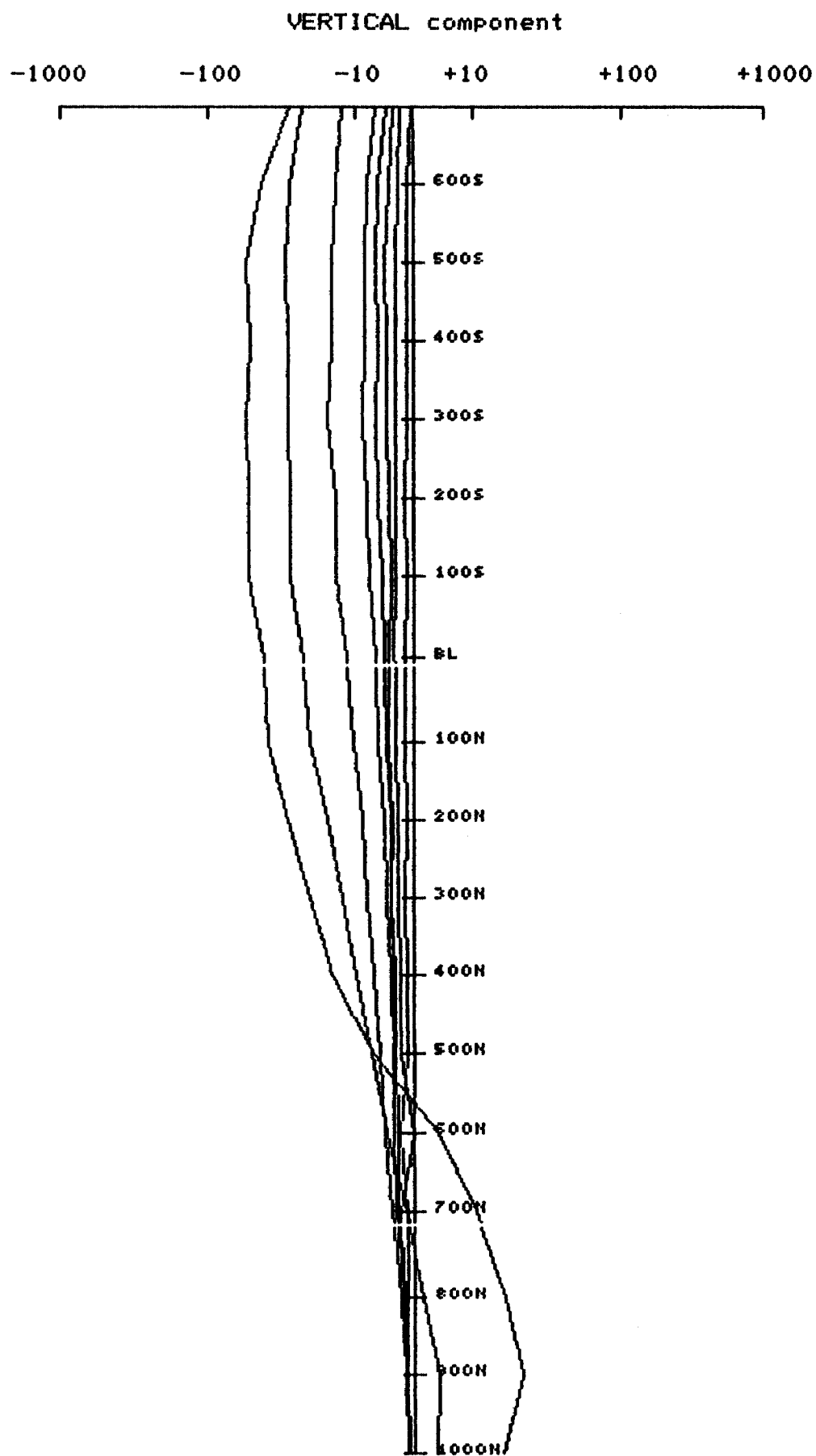


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D28ESEL3:1 SYS 5

GRID TX LINE
150-17 3 28+00E

Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
DEEPEM

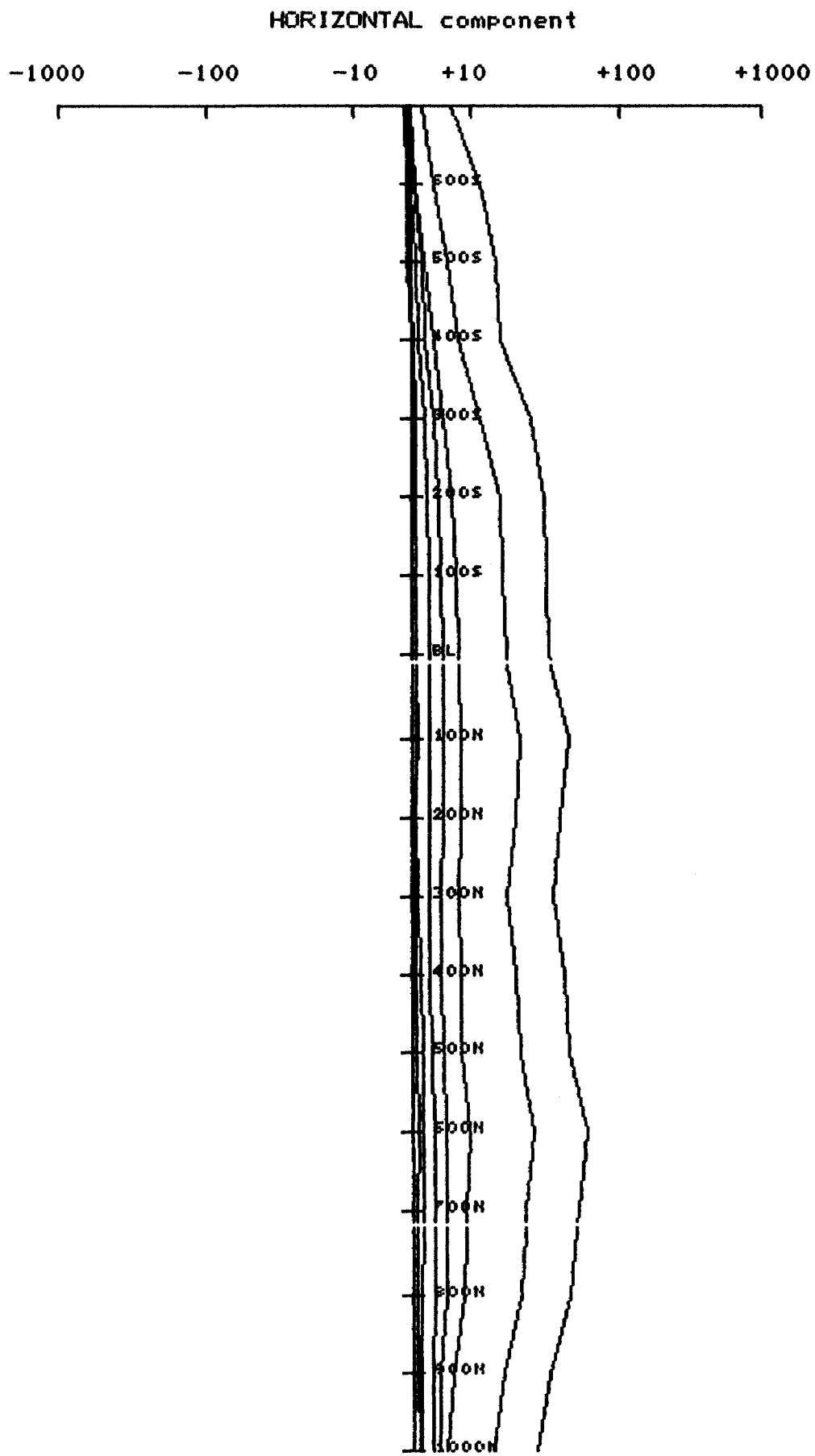
FILE: D28ESEL3:1 SYS 5

GRID
150-17

TX
3

LINE
28+00E

Scale: 1in= 200ft

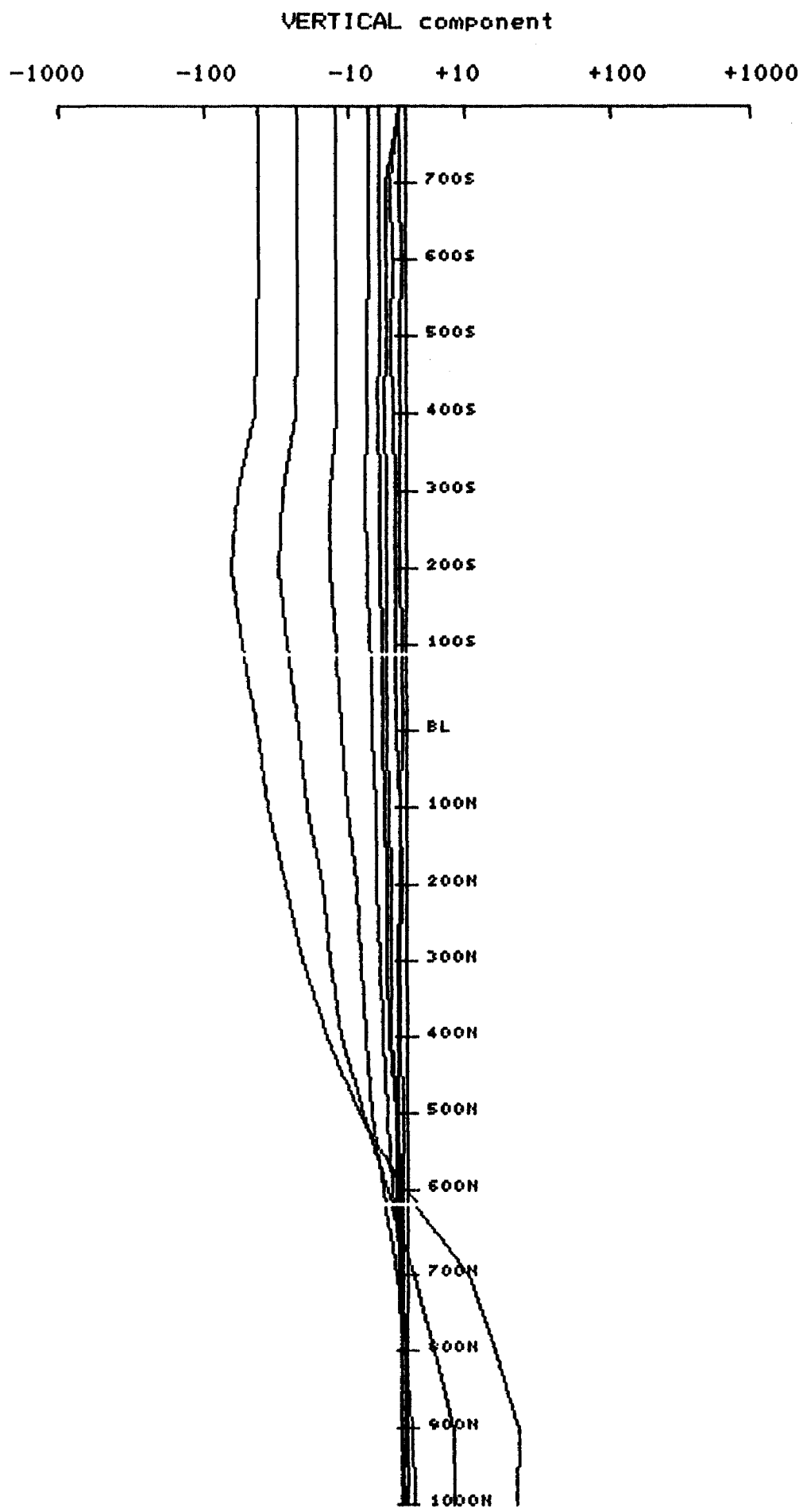


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D32ESEL3:1 SYS 5

GRID TX LINE
150-17 3 32+00E

Scale: 1in= 200ft

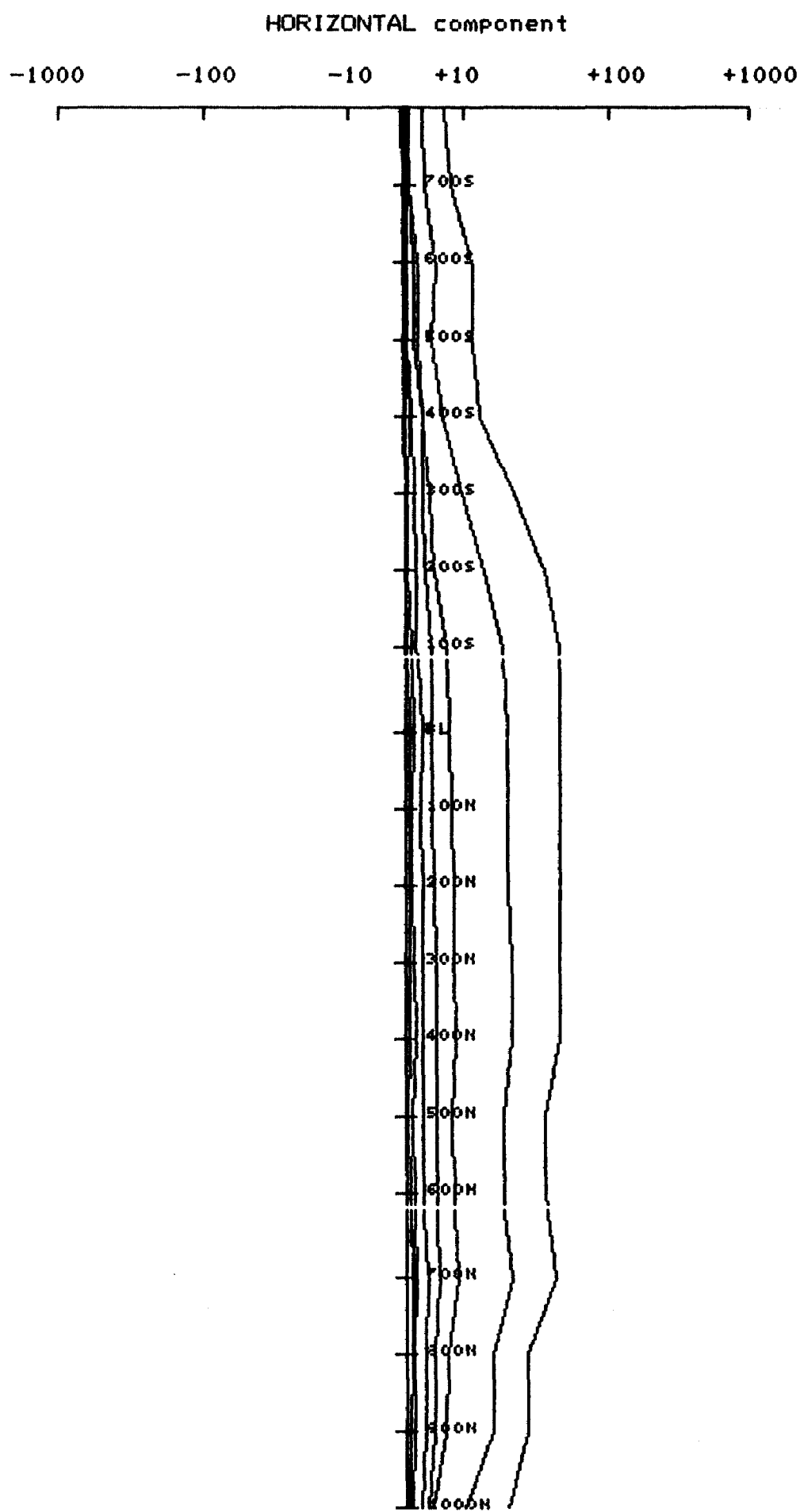


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D32ESEL3:1 SYS 5

GRID TX LINE
150-17 3 32+00E

Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
DEEPEM

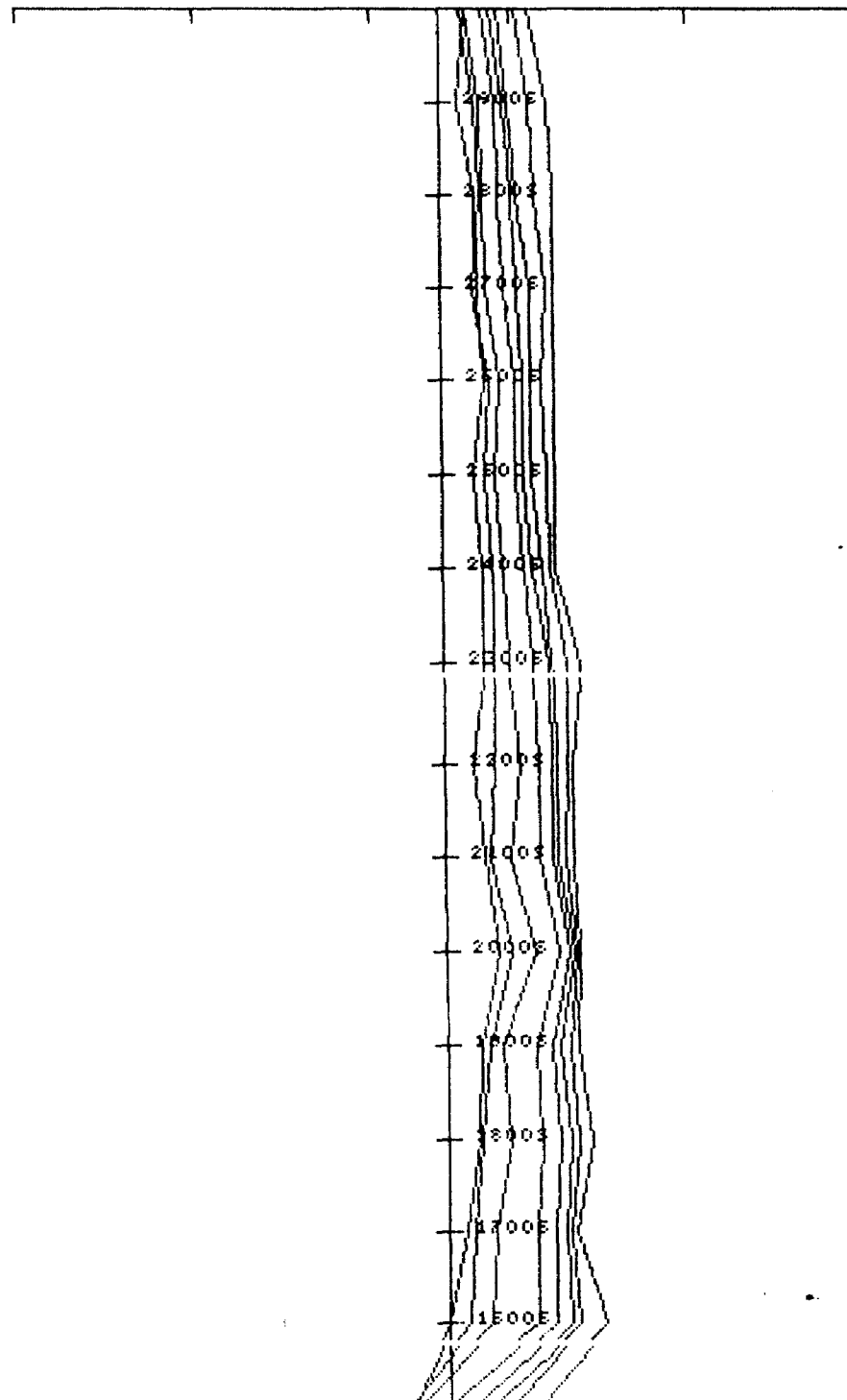
FILE: D24ESE14:3 SYS 0

GRID TX LINE
150-18 14 24+00E

Scale: 1in= 200ft

HORIZONTAL component

-1000 -100 -10 +10 +100 +1000

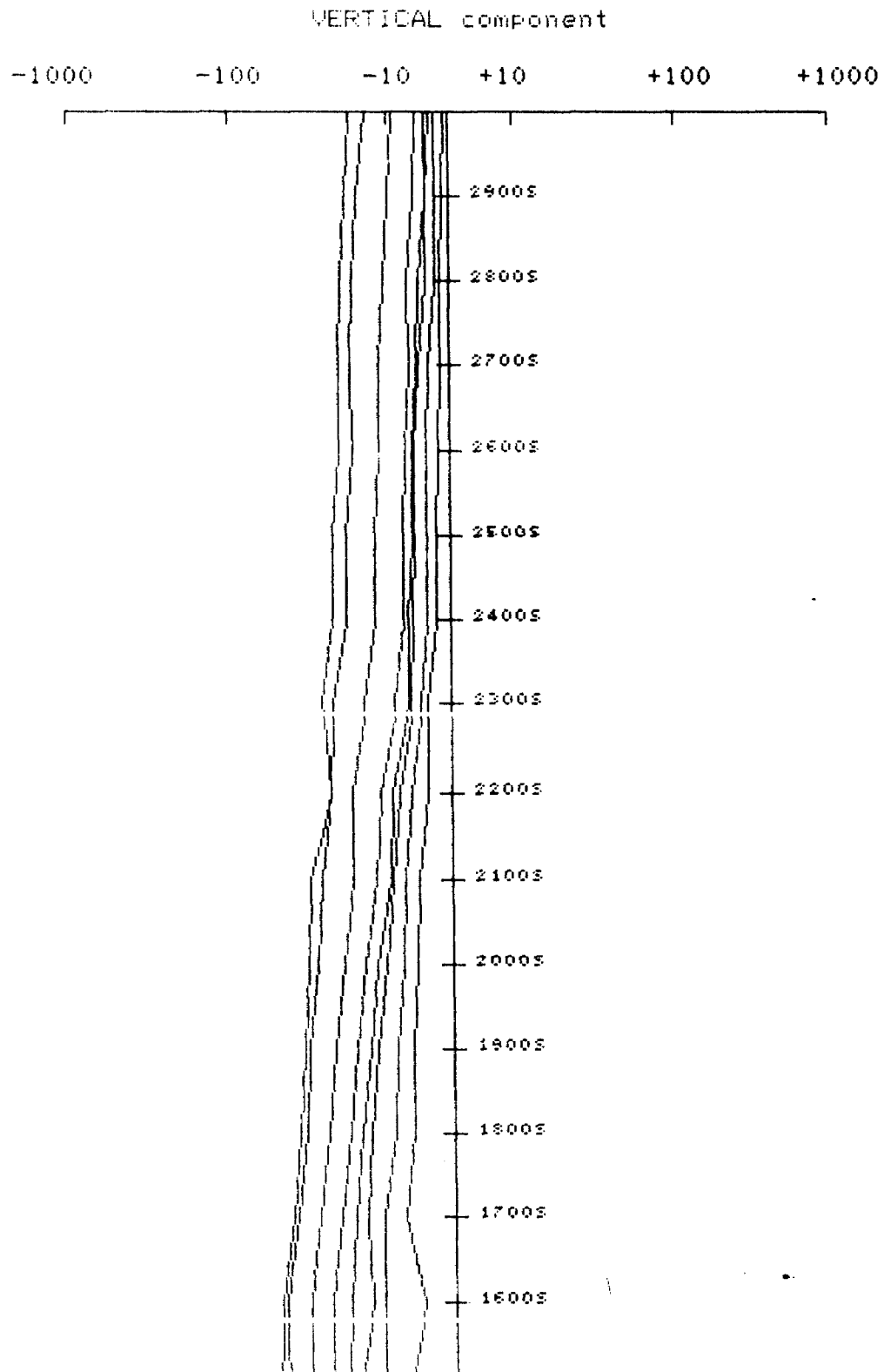


CRONE GEOPHYSICS LIMITED
DEEFEM

FILE: D24ESE14:3 SYS 0

GRID TX LINE
150-18 14 24+00E

Scale: 1in= 200ft

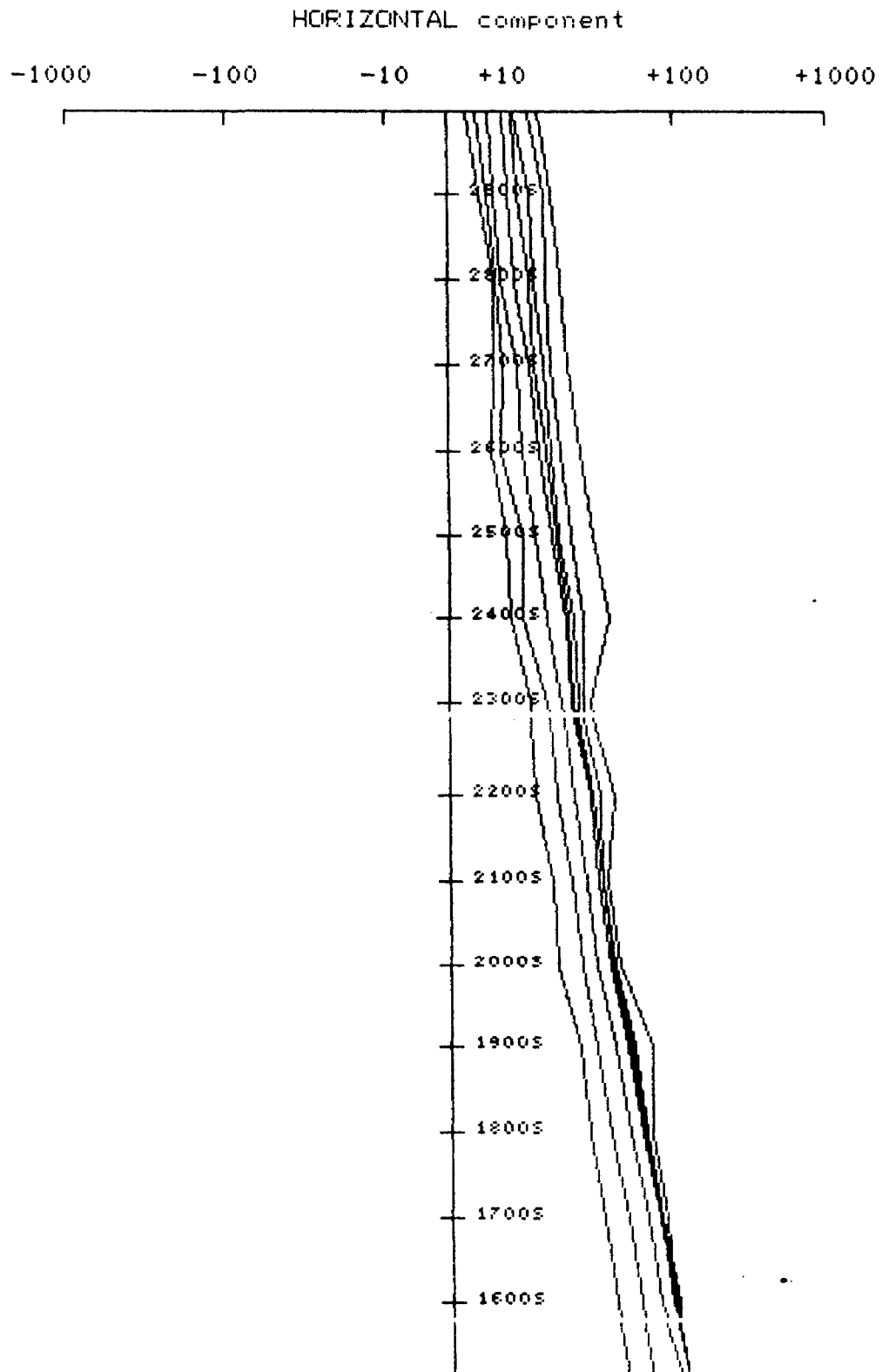


CRONE GEOPHYSICS LIMITED
DEEFEM

FILE: D20ESE14:3 SYS 0

GRID TX LINE
150-18 14 20+00E

Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
DEEPEM

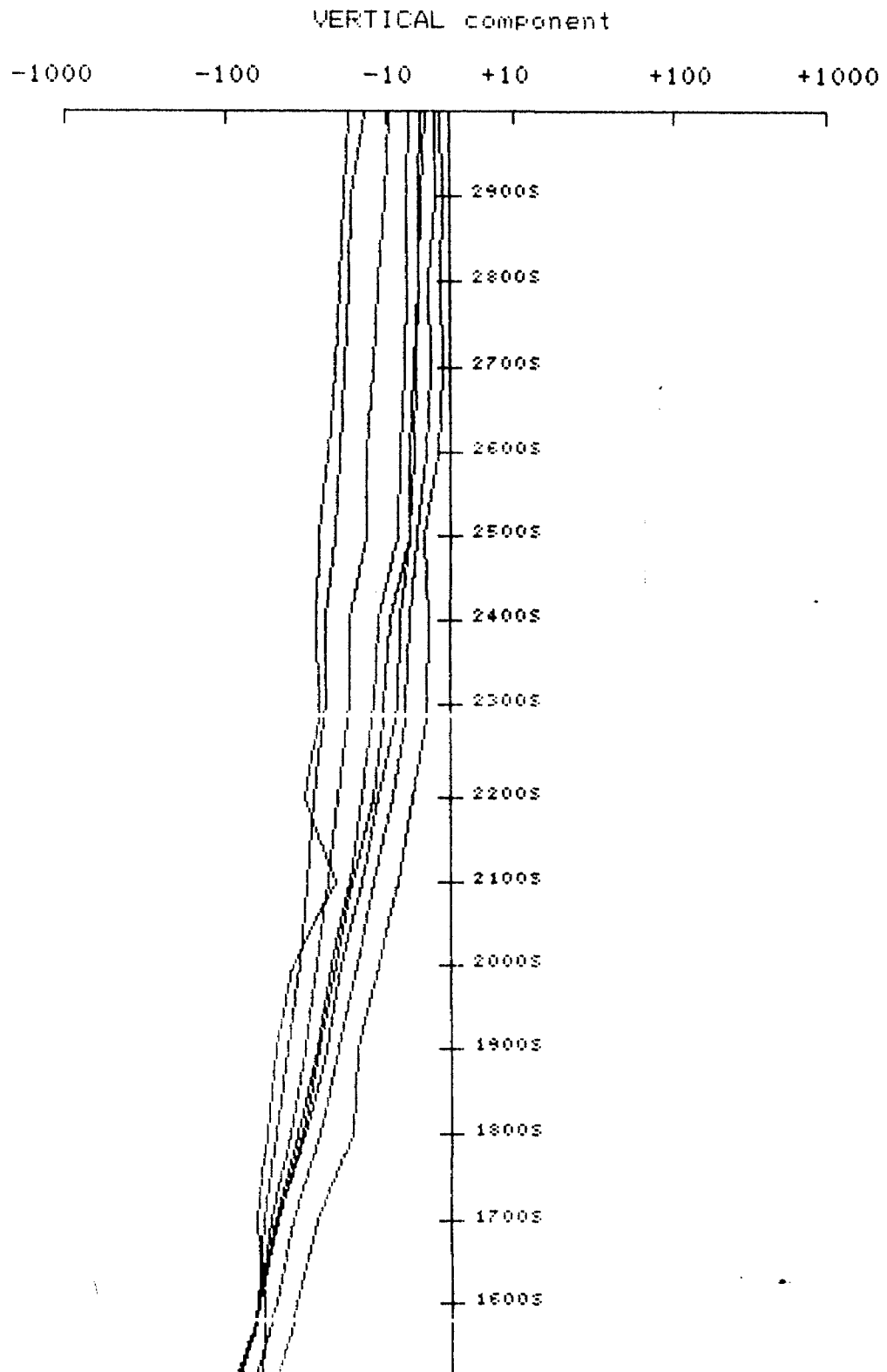
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GRID
150-18

TX
14

LINE
20+00E

Scale: 1in= 200ft

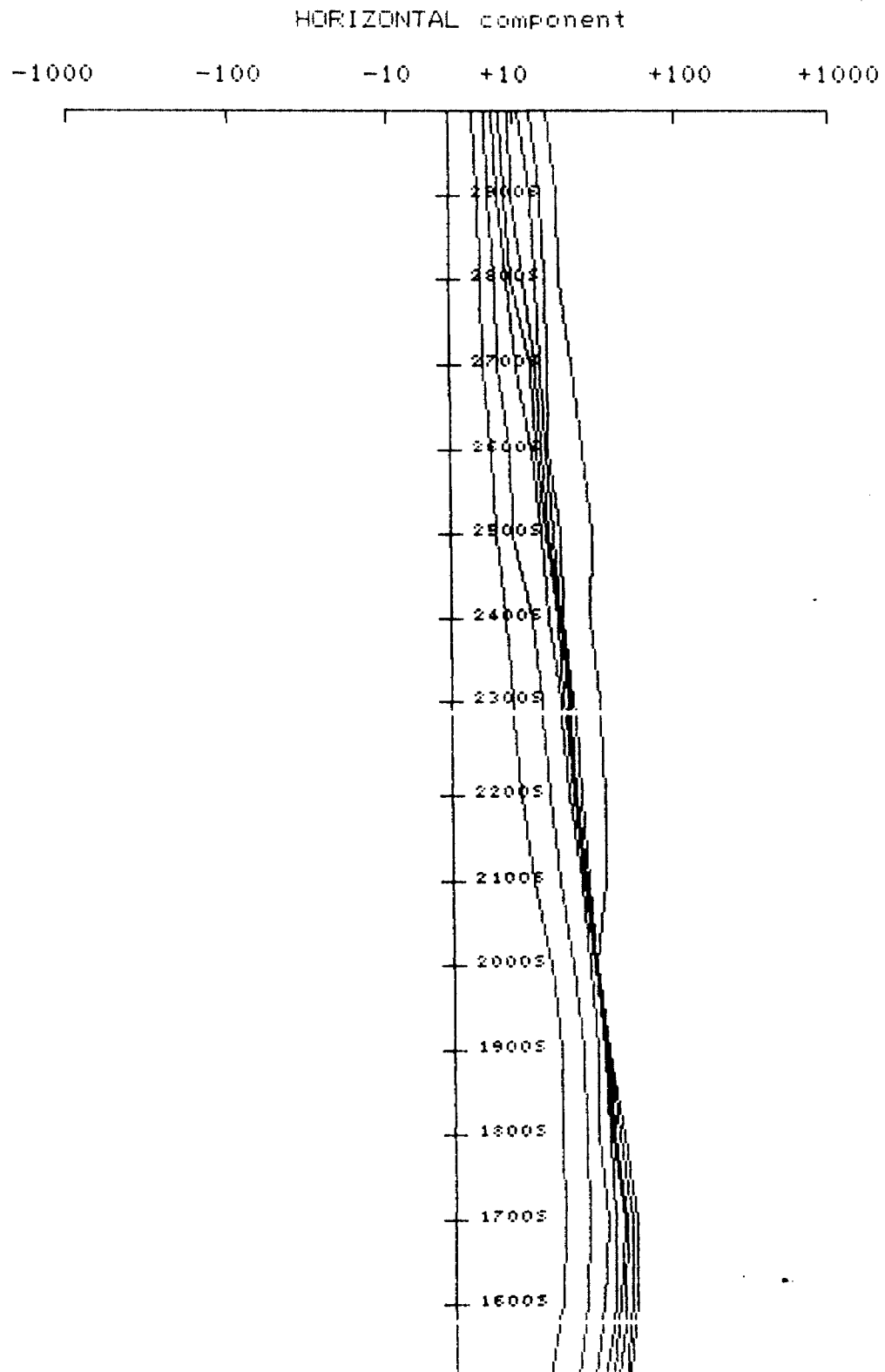


CRONE GEOPHYSICS LIMITED
DEEPEM

FILE: D16ESE14:3 SYS 0

GRID TX LINE
150-18 14 16+00E

Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
DEEPEM

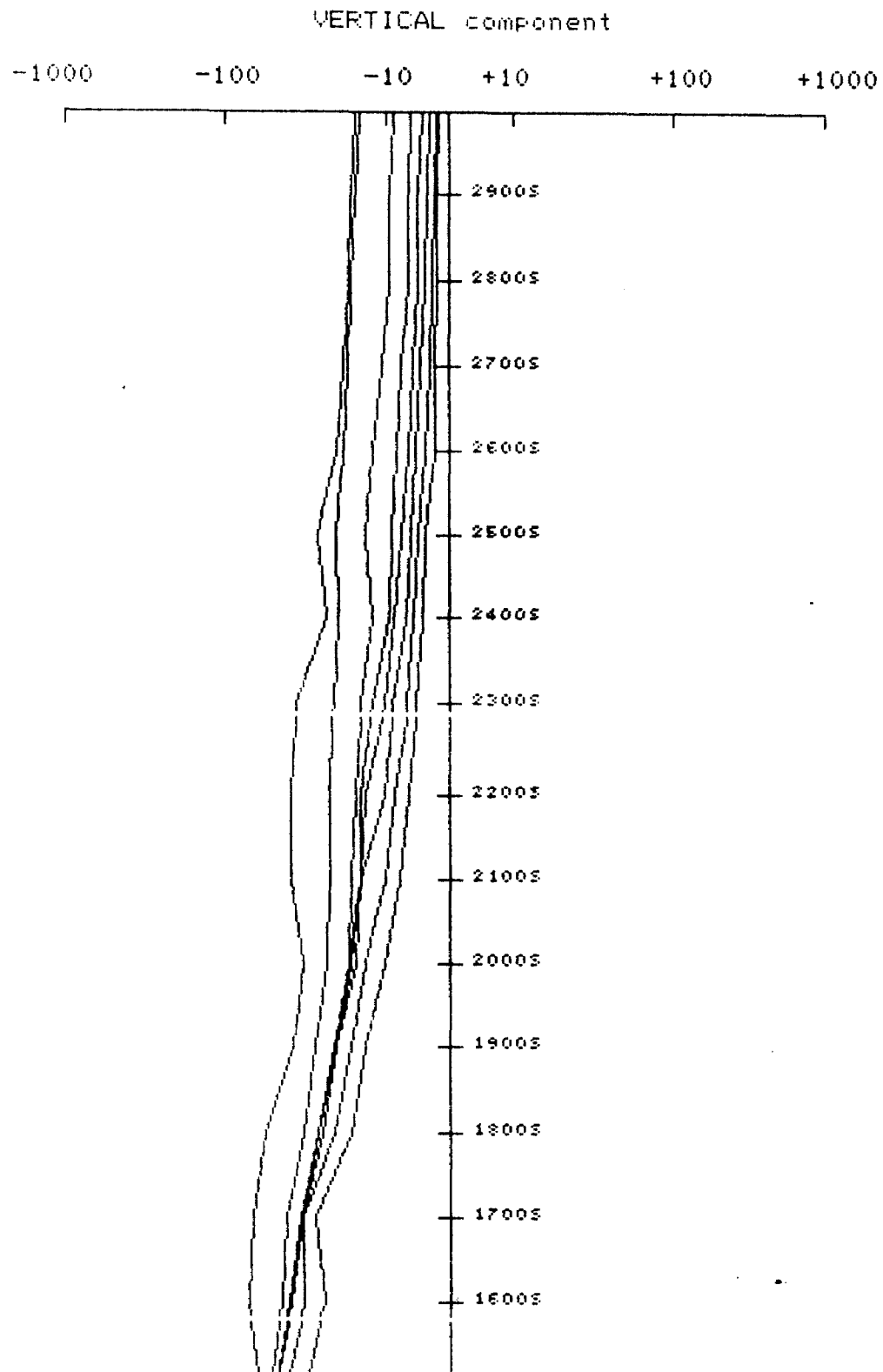
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GRID
150-18

TX
14

LINE
16+00E

Scale: 1in= 200ft



CRONE GEOPHYSICS LIMITED
DEEFEM

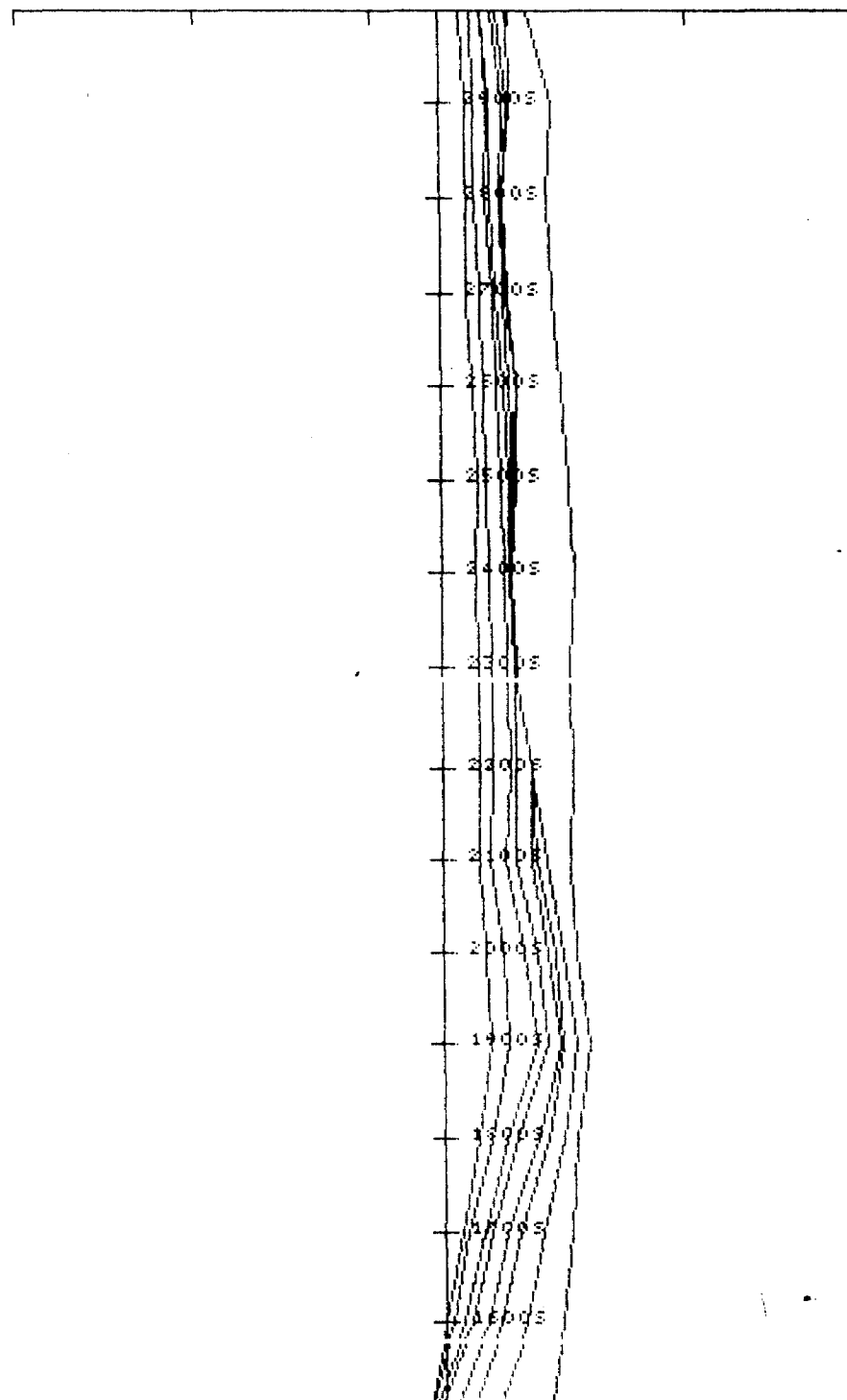
FILE: D12ESE14:3 SYS 0

GRID TX LINE
150-18 14 12+00E

Scale: 1in= 200ft

HORIZONTAL component

-1000 -100 -10 +10 +100 +1000



CRONE GEOPHYSICS LIMITED
DEEFEM

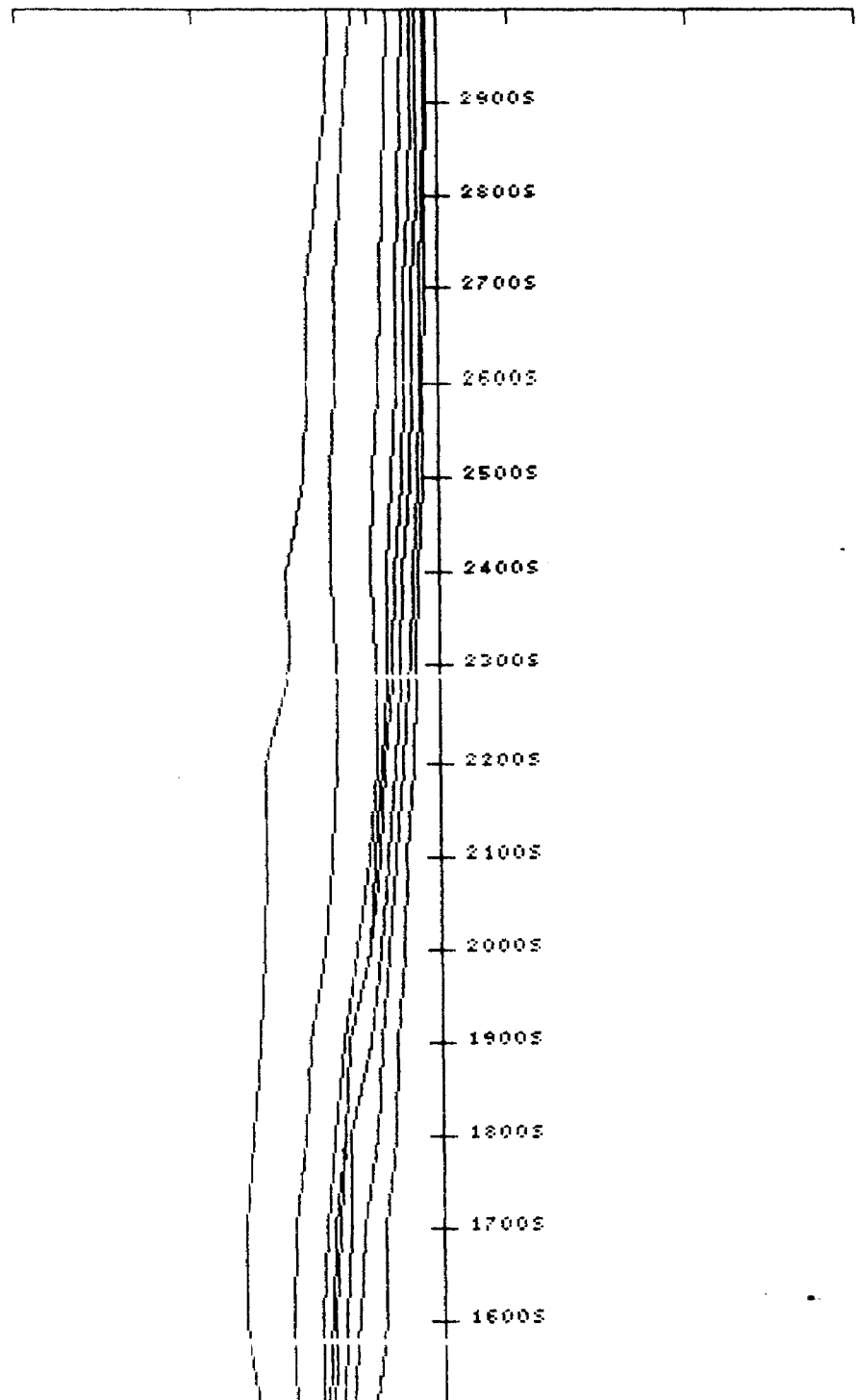
FILE: D12ESE14:3 SYS 0

GRID TX LINE
150-18 14 12+00E

Scale: 1in= 200ft

VERTICAL component

-1000 -100 -10 +10 +100 +1000





Report of Work
Geophysical, Geological,
Geochemical and Experimental

Dixie-outh Bay - P21

RED LAKES
R
7181
52K14NE0016 2.7182 GERRY LAKE
6.1782
Prospector's Licence No. T190
900
TT 4-1-84
84 Sept 1984

Type of Survey: Geophysical
 Name of Company: BP Resources Canada Ltd.
 Address: 55 University Ave., Suite 1700, Toronto, Ontario M5J 2H7
 Survey Company: BP Resources Canada Ltd.
 Date of Survey (from & to): 19 03 84 to 24 03 84
 Total Miles of line Cut: 11.9 mls.
 Name and Address of Author (of Geo Technical report): A. Gubins - 55 University Ave., Suite 1700, Toronto, Ontario M5J 2H7

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey Enter 40 days (This includes line cutting)	- Electromagnetic - Magnetometer	
For each additional survey using the same grid Enter 20 days (for each)	- Radiometric - Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic - Magnetometer - Radiometric - Other	21
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic - Magnetometer - Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
KRL	727940				
	727941				
	727942				
	727943				
	727944				
	727945				
	727946				
	727947				
	727948				
	727949				
	727950				

RECEIVED
AUG 10 1984
MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 =

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. 11

For Office Use Only

Total Days Cr. Recorded: 231
 Date Recorded: July 31, 1984
 Mining Recorder: [Signature]
 Date Approved by Recorder: [Signature]
 Branch Director: [Signature]

see revised statement

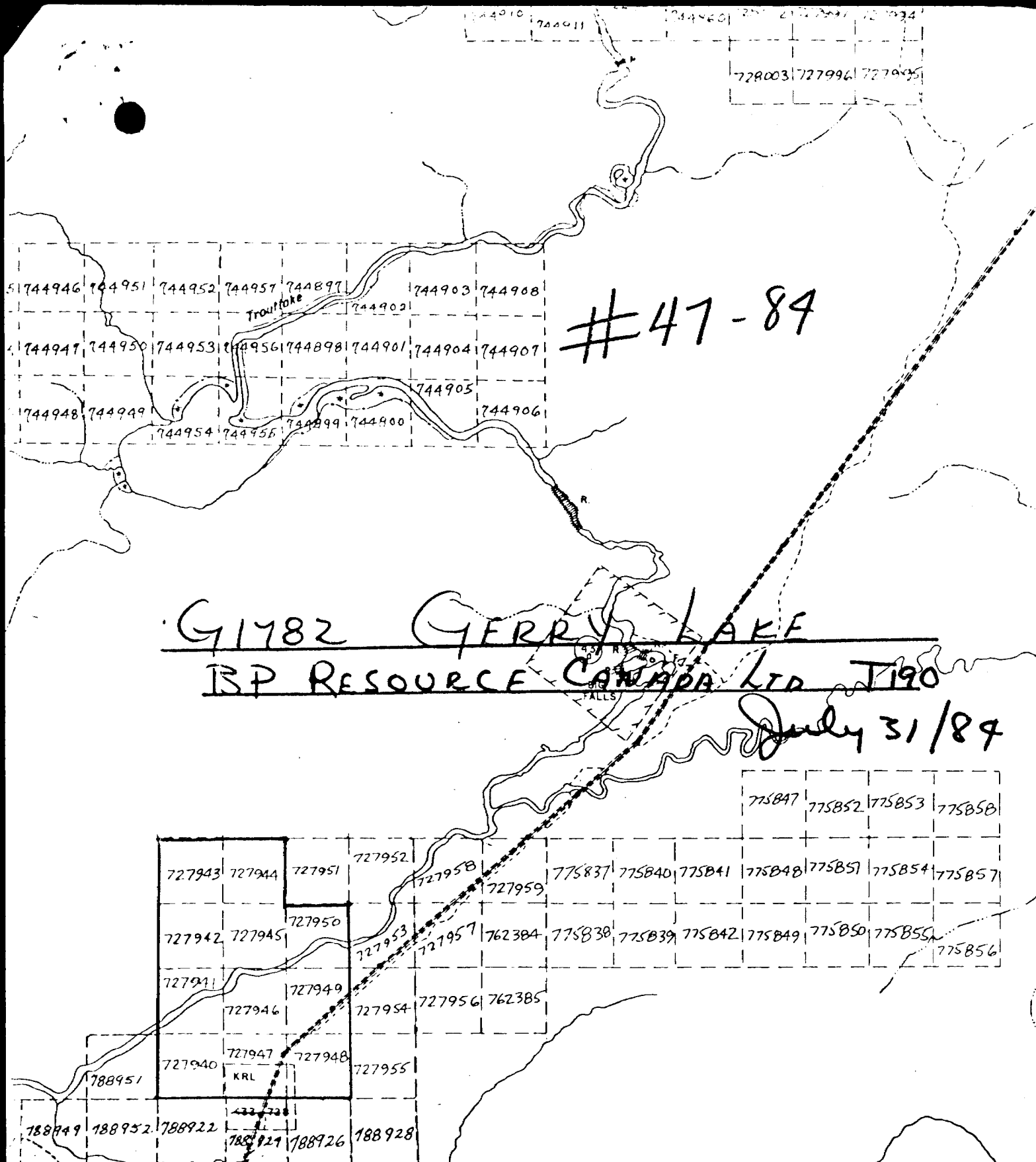
Date: _____
 Recorded Holder or Agent (Signature): _____

Certification: Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: A. Gubins - 55 University Ave., Suite 1700, Toronto, Ontario M5J 2H7

Date Certified: July 11, 1984
 Certified by (Signature): [Signature]



#47-84

G1782 GERRY LAKE
BP RESOURCE CANADA LTD T190

July 31/89

8' 7' 6' 5' 4'

KARAS LAKE G-1801

Assessment Work Breakdown

Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc.

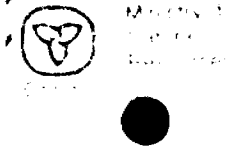
Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
32				224		8		232		11		21

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim





Matthews
 Report of Work
 Geophysical, Geological,
 Geochemical and Expenditures
W812.45
 Dixie-South Bay - P26

RED LAKE
 MINING DIV.
RECEIVED
2,7182
 11 26 1984
 A.M. The Mining Act P.M.

45 - 84
Sept 29th
 Instructions - Please type or print
 - If number of mining claims listed exceeds space on this form, attach
 Note - Only man-days actually calculated in "Expenditure" section may be entered in the "Expend. Days Cr." column
 - Do not use shaded areas below

7 8 9 10 11 12 1 2 3 4 5 6 Township or Area
 Geophysical G.1782
 BP Resources Canada Ltd. Prospector's Licence No. T190
 55 University Ave., Suite 1700, Toronto, Ontario M5J 2H7
 BP Resources Canada Limited Date of Survey from & to April 84 June 84 Total Miles of line Cut 3 mls.
 A. Gubins - 55 University Ave., Suite 1700, Toronto, Ontario M5J 2H7

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey Enter 40 days (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	40
For each additional survey using the same grid Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
KRL	727993	-			
	727997	-			
	727998	-			
	727999	-			
	728001	-			
	728002	-			
	762386	-			

RECEIVED
 AUG 10 1984
 MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed
 Performed on Claim(s)
 Calculation of Expenditure Days Credits
 Total Expenditures \$ ÷ 15 = Total Days Credits
 Instructions
 Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work.

For Office Use Only
 Total Days Cr. Recorded Date Recorded *July 31, 1984*
 Mining Recorder *Keith R. Wood*
 Date Approved as Recorded Branch Director *see revised statement*

Date Recorded Holder or Agent (Signature)

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true. *KRL: 727990*

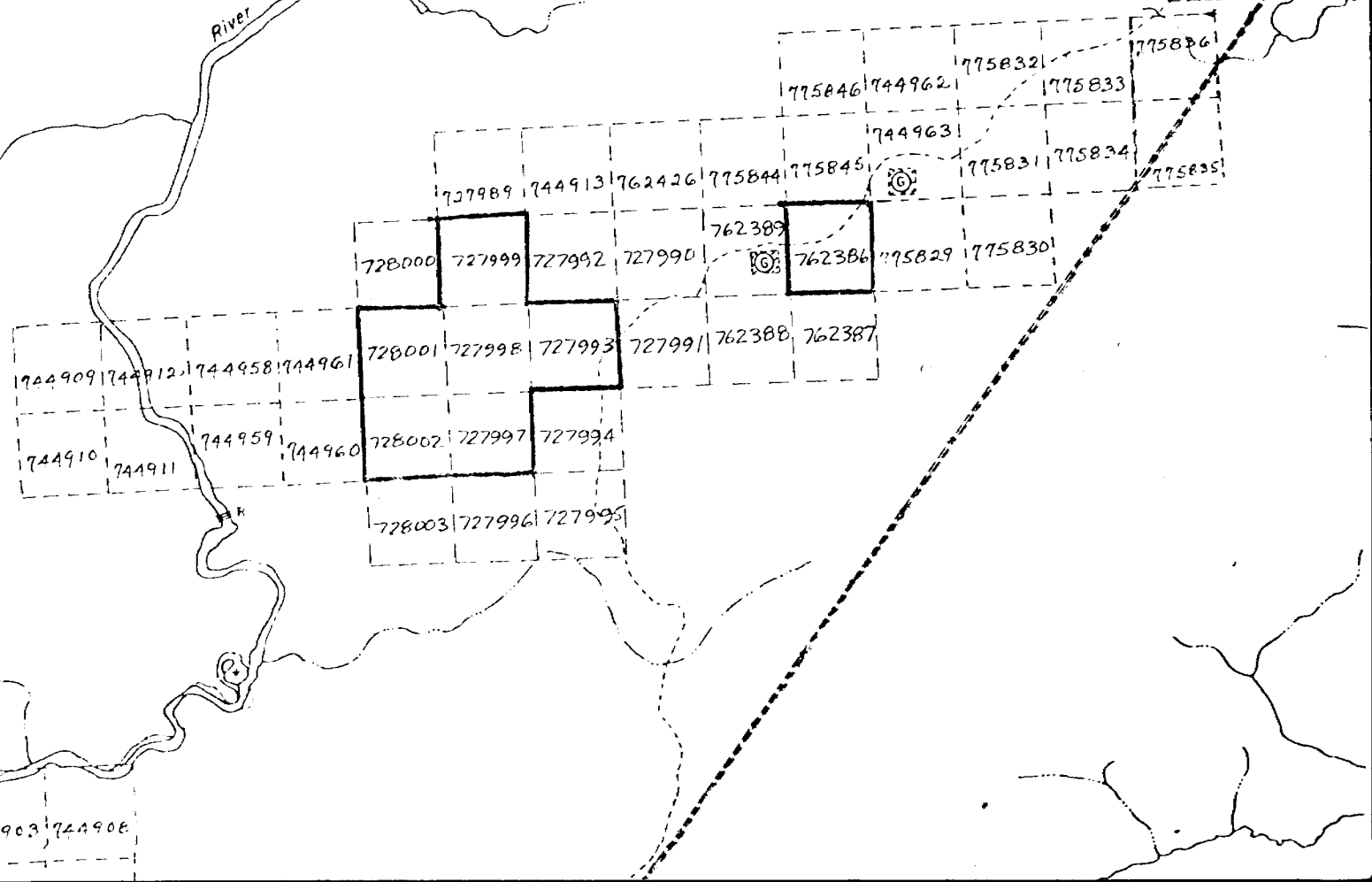
Name and Postal Address of Person Certifying
 A. Gubins - 55 University Ave., Suite 1700, Toronto, Ontario M5J 2H7
 Date Certified July 11, 1984 Certified by (Signature) *James Gubins*

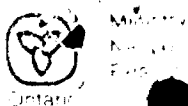
#45-84

G 1782. GERRY LAKE

BP Resources Canada Limited
July 31/84

NO 1F-4
FILE
157708





Report of Work
Geophysical, Geological
Geochemical and Expenditures

W 46-89
Dixie-South Bay - P18

RED LAKE MINING DIV
RECEIVED
JUL 21 1984
A.N. Mining Act

#46-89
Sept 29th
Instructions:
1. Enter type of work
2. Enter number of mining claims traversed
3. Enter number of days credits for each claim on this form, attached to this report. (Days credits are calculated in the "Expend. Days Cr." column)
4. Do not use shaded areas below.

Type of Survey: **Geophysical**

Claim Holders: **BP Resources Canada Limited**

Address: **55 University Ave., Suite 1700, Toronto, Ontario M5J 2H7**

Survey Company: **BP Resources Canada Limited**

Name and Address of Author (of Geo. Technical report): **A. Gubins - 55 University Ave., Suite 1700, Toronto, Ontario M5J 2H7**

Township or Area: **6.1888**

Prospector's Licence No: **T190**

Date of Survey (from & to):
27 Day, 02 Mo, 84 Yr. 05 Day, 03 Mo, 84 Yr.

Total Miles of line Cut: **9.25**

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey Enter 40 days. (This includes line cutting)	- Electromagnetic - Magnetometer	
For each additional survey using the same grid Enter 20 days (for each)	- Radiometric Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter totals here	Geophysical - Electromagnetic - Magnetometer - Radiometric - Other	Days per Claim 20
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic Magnetometer Radiometric	Days per Claim

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
KRL	623451	-			
	623452	-			
	623453	-			
	623454	-			
	623461	-			
	623462	-			
	762321	-			
	762322	-			
	762326	-			
	762327	-			

RECEIVED
AUG 10 1984
MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures: \$ ÷ 15 = Total Days Credits:

INSTRUCTIONS
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: **10**

Date:

Recorded Holder or Agent (Signature):

For Office Use Only

Total Days Cr. Recorded: **200**

Date Recorded: **July 31, 1984**

Mining Recorder: *[Signature]*

Date Approved: **8/10/84**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **A. Gubins - 55 University Ave., Suite 1700, Toronto, Ontario M5J 2H7**

Date Certified: **July 11, 1984**

Certified by (Signature): *[Signature]*

#46-84

KRL 762324	KRL 762323	KRL 762322	KRL 623461	KRL 623460	KRL 623457	KRL 623456	KRL 623453	KRL 623452	
KRL 762319	KRL 762320	KRL 762321	KRL 623462	KRL 623459	KRL 623458	KRL 623455	KRL 623454	KRL 623451	744884
KRL 762318	KRL 762317	KRL 762316	KRL 623468	KRL 623463	KRL 762325	KRL 762326	KRL 762327	KRL 762328	KRL 623450
		KRL 623467	KRL 623464			744880	744881	744882	
		KRL 623466	KRL 623465						
							KRL 697033	KRL	KRL
							KRL 696887	KRL 623447	KRL 623446
							623449	623448	
							KRL 623442	KRL 623443	
							KRL 696886	KRL 696888	KRL 623444
							KRL 696885	KRL 696931	KRL 623439
									KRL 623445
									KRL 623445

41888 SOUTH of OTTER LAKE

BP RESOURCES CANADA LIMITED

July 31 / 84

744864	744865	744866	744867				
744868	744869	744870	744871	744914	744915	744916	
744872	744873	744874	744875	744917	744918	744919	744920
744876	744877	744878	744879	744921	744922	744923	744924



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geophysical
Township or Area G1782
Claim Holder(s) BP Resources Canada Limited
55 University Ave., Suite 1700, Tor.
Survey Company BP Resources Canada Ltd.
Author of Report A. Gubins
Prystak
Address of Author 55 University Ave., Suite 1700
Covering Dates of Survey April '84 - June '84
(linecutting to office)
3 mls.
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

KRL	762386
(prefix)	(number)
KRL	727993
KRL	727997
KRL	727998
KRL	727999
KRL	728001
KRL	728002

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical _____
ENTER 20 days for each additional survey using same grid.	-Electromagnetic <u>20</u>
	-Magnetometer <u>40</u>
	-Radiometric _____
	-Other _____
	Geological _____
	Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Sept 17 '84 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 2.2544
2.3416

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 7

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations EM=185 MAG=228 Number of Readings EM=185 MAG=228
 Station interval 100' and 50' Line spacing 400'
 Profile scale 1":20%
 Contour interval Every 100 gammas to 1,000
Every 500 gammas thereafter
 Instrument EDA PPM 300
 Accuracy - Scale constant + 1 gamma
 Diurnal correction method Base Station
 Base Station check-in interval (hours) _____
 Base Station location and value Intersection of Base Lines and Cross Lines

MAGNETIC

Instrument Apex Max-Min II
 Coil configuration Horizontal
 Coil separation 125m and 250m
 Accuracy + 0.5%
 Method: Fixed transmitter Shoot back In line Parallel line
 Frequency 1777 Hz
(specify V.L.F. station)
 Parameters measured In-phase and quadrature components of secondary field as a percentage of primary field.

ELECTROMAGNETIC

Instrument _____
 Scale constant _____
 Corrections made _____
 Base station value and location _____
 Elevation accuracy _____

GRAVITY

Instrument _____
 Method Time Domain Frequency Domain
 Parameters - On time _____ Frequency _____
 - Off time _____ Range _____
 - Delay time _____
 - Integration time _____

INDUCED POLARIZATION RESISTIVITY

Power _____
 Electrode array _____
 Electrode spacing _____
 Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth -- include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

Recorded Holder	BP RESOURCES CANADA LIMITED
Township or Area	GERRY LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ 39 _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	KRL 727940 to 942 inclusive 727945 to 947 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

KRL 727943-944
 727948 to 950 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

Recorded Holder	BP RESOURCES CANADA LIMITED
Township or Area	GERRY LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ 14 _____ days Magnetometer _____ 40 _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	KRL 727993 727997 to 999 inclusive 728001-002 762386

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19)—60:

2000 Survey Worksheet

1. Enter the number of days of the survey in the box with the number 7. Technical days include work periods and line-cutting days.

Example

Technical Days		Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim						
28	X	7	=	196	+	6	=	202	÷	10	=	20

Type of Survey

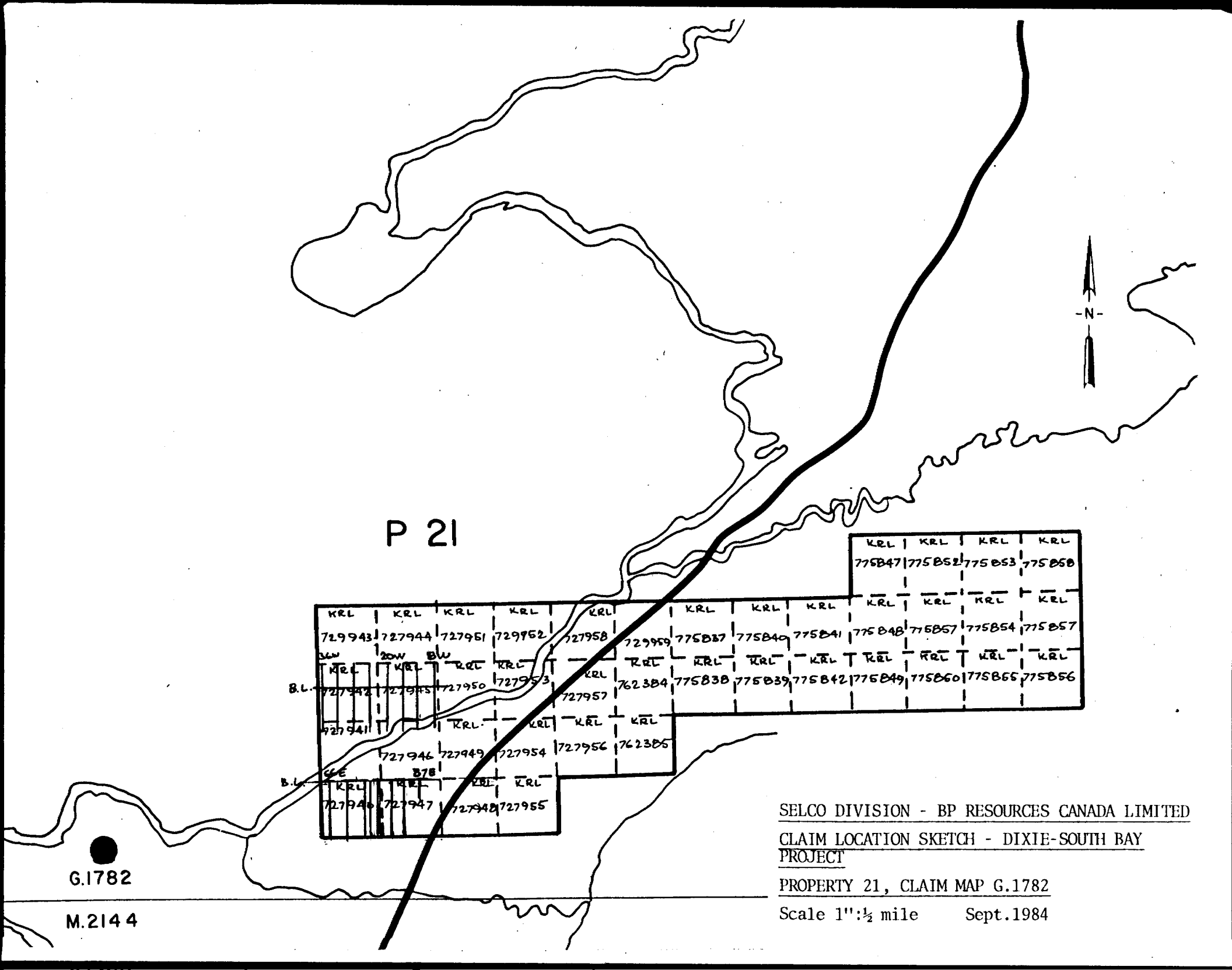
Technical Days		Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim						
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days		Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim						
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days		Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim						
	X	7	=		+		=		÷		=	



P 21

KRL	KRL	KRL	KRL
775B47	775B52	775B53	775B58
KRL	KRL	KRL	KRL
KRL	KRL	KRL	KRL

KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL
729943	727944	727951	729952	727958	729959	775B37	775B40	775B41	775B48	775B57	775B54	775B57	
SW	20W	BW	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL
B.L.	727942	727945	727950	727953	KRL	7623B4	775B38	775B39	775B42	775B49	775B60	775B65	775B66
	727941		KRL	KRL	KRL	KRL							
		727946	727949	727954	727956	7623B5							
B.L.	66E	87B	KRL	KRL	KRL	KRL							
	727946	727947	727948	727955									

G.1782

M.2144

SELCO DIVISION - BP RESOURCES CANADA LIMITED

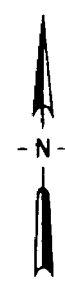
CLAIM LOCATION SKETCH - DIXIE-SOUTH BAY PROJECT

PROPERTY 21, CLAIM MAP G.1782

Scale 1"=1/2 mile Sept.1984

P 18

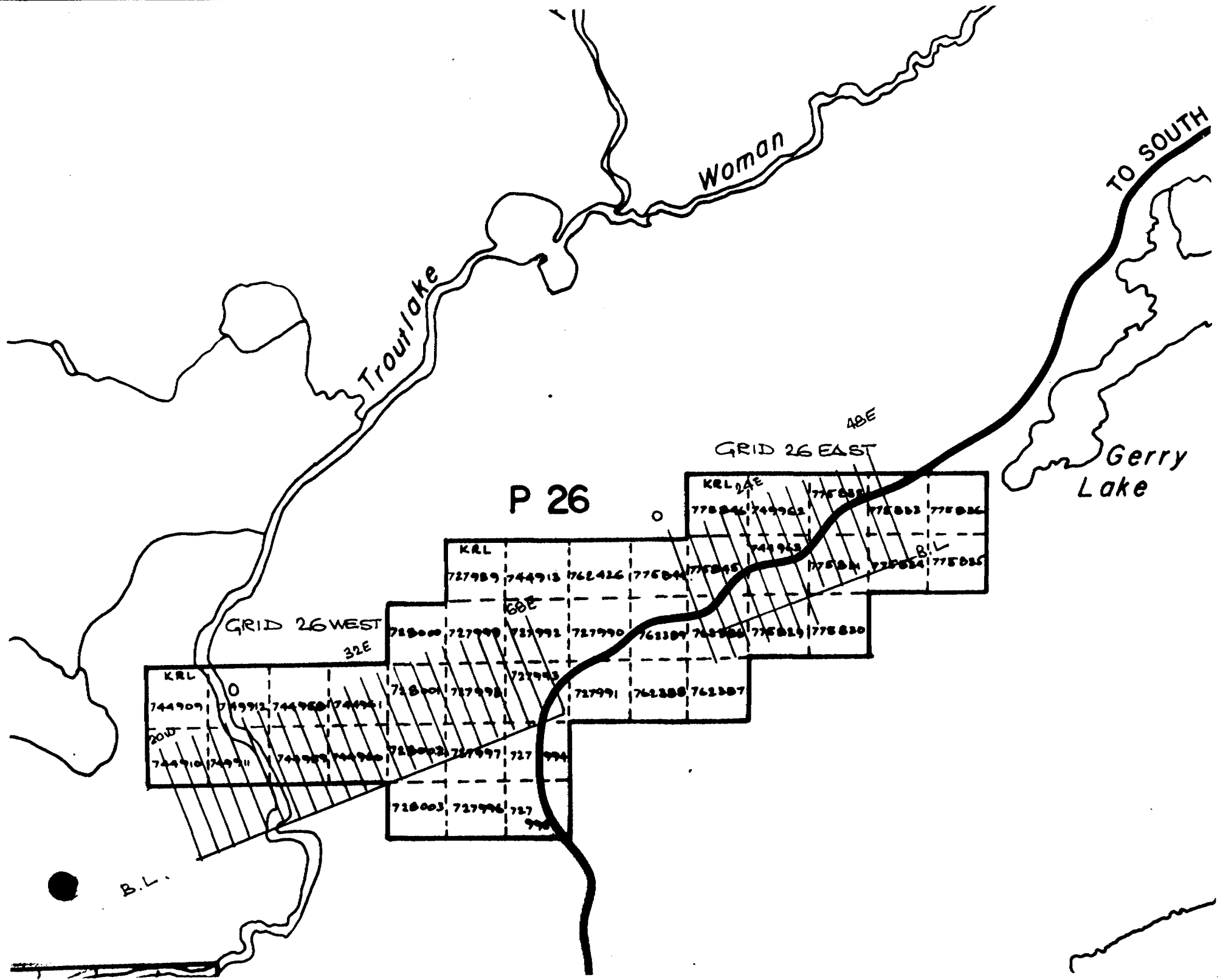
4E										20E		32E		12E		40E		56E		B.L.
KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL
762324	762323	762322	623461	623460	623457	623456	623453	623452												
KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL
762319	762320	762321	623462	623459	623458	623455	623454	623451	744884											
KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL	KRL
762318	762317	762316	623468	623463	762325	762326	762327	762328	623450											
			KRL	KRL			KRL	KRL	744883	697033	KRL	KRL	KRL							
			623467				744880	744881	744881	696887										
				623469						623449	623448	623447	623446							
			KRL	KRL						623442	623443	KRL	KRL							
			623466	623465						KRL	KRL									
										696886	696888	623444	623445							
										KRL	KRL	KRL	KRL							
										696885	696931	623439	623438							



SELCO DIVISION - BP RESOURCES CANADA LIMITED
 CLAIM LOCATION SKETCH - DIXIE-SOUTH BAY
 PROJECT

PROPERTY 18, CLAIM MAP M.2438

Scale 1":½ mile Sept.1984



Woman

Troutlake

TO SOUTH

Gerry Lake

P 26

GRID 26 EAST

GRID 26 WEST
32E

48E

KRL 2AE

KRL

KRL

68E

B.L.

775021	744902	775022	775023	775024
744943	775025	775026	775027	775028

727989	744913	762426	775041	775042	775043	775044	775045	
728000	727990	727991	727992	727993	762304	762305	775019	775020

744909	744910	744911	744912	744913	744914	727995	727996	727997	727998	727999	762306	762307
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

728001	727998	727999	762308	762309
728002	727997	727998	727999	
728003	727996	727997	727998	727999



OCT 29, 1984.

1984 10 12

Your File: 45-84, 47-84
Our File: 2.7182

Mining Recorder
Ministry of Natural Resources
Ontario Government Building
Box 324
Red Lake, Ontario
POV 2M0

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

R⁽¹⁾ D. Isherwood:mc
Encls.

cc: B.P. Resources Canada Ltd
55 University Avenue
Suite 1700
Toronto, Ontario
M5J 2H7
Attention: Jeanne E. Rackley

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Ministry of
Natural
Resources

Ontario

Notice of Intent
for Technical Reports

1984 10 12

2.7182/45-84,47-84

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

Mining Lands Section

File No 2.7182

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

Not a full survey
Min. Lands
2 notices of intent (45-84) (47-84)
1 approval (46-84)

(45-84) - not enough EM readings for full credit, may adequate
(47-84) - 5 claims are missing from maps.
HLEM maps only indicate 177Hz readings, 444Hz readings not submitted

LD

Dang
Signature of Assessor

26/09/84
Date

1984 10 31

Your File: 45-84, 47-84
Our File: 2.7182

Mining Recorder
Ministry of Natural Resources
Ontario Government Building
Box 5003
Red Lake, Ontario
POV 2M0

Dear Sir:

RE: Notice of Intent dated October 12, 1984.
Geophysical (Electromagnetic & Magnetometer)
Survey on Mining Claims KRL 623451 et al in
the Areas of Gerry Lake and South of Otter
Lake.

The assessment work credits, as listed with the
above-mentioned Notice of Intent, have been approved
as of the above date.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-4888

D. Isherwood:sc

cc: B.P. Resources Canada Ltd
55 University Avenue
Suite 1700
Toronto, Ontario
M5J 2H7
Attn: J.E. Rackley

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
REd Lake, Ontario

1984 09 24

Your File: 45,46 & 47
Our File: 2.7182

Mining Recorder
Ministry of Natural Resources
Ontario Government Building
Box 324
Red Lake, Ontario
POV 2M0

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims KRL 623451 et al in the Areas of Gerry Lake and South of Otter Lake.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

A. Barr:mc

cc: B.P. Resources Canada Ltd
55 University Avenue
Suite 1700
Toronto, Ontario
M5J 2H7
Attention: Jeanne E. Rackley

● BP Canada

BP Canada Inc.
Selco Division

55 University Avenue Suite 1700
Toronto Ontario M5J 2H7
Telephone: (416) 361 0794 Telex: 06 22537

1782
Lenny
Lake

September 6, 1984

Mining Recorder
P.O. Box 324
Lands Administration Branch
Red Lake, Ontario
POV 2M0

1888
South of
Upper Lake

Dear Sir,

RE: DIXIE - SOUTH BAY - PROPERTIES 18, 21 & 26
G.1782 and 1888

Further to our Report of Work (July 18, 1984)
please find the following:-

CONTENT

(in duplicate)

Geophysical Report
Technical Data Sheet
Drawings No. SB 3798B(1)
 SB 3798
 SB 3799B(1)
 SB 3799
I.P. Profiles
Invoices & Cost Statement

Yours very truly,

SELCO DIVISION
BP RESOURCES CANADA LTD.



Jeanne E. Rackley
Claims Control Co-ordinator

RECEIVED

SEP 17 1984

/rt MINING LANDS SECTION

COST STATEMENT

Dixie-South Bay - Property 21 (March 19-24, 1984)

Coverage 11.79 miles

Linecutting	\$7,685.07
Survey/Report Preparation	<u>8,197.15</u>
Supervision/Drafting	
TOTAL	<u>15,882.22</u>

Dixie-South Bay - Property 18 (February 27 - March 3, 1984)

Coverage 9.21 miles

Linecutting	\$ 6,003.35
Survey/Report Preparation	<u>11,476.01</u>
Supervision/Drafting	
TOTAL	17,479.36

Contracts: Crone Geophysics Limited
Mississauga, Ontario

Linecutting: In'dependent Exploration Services
Winnipeg, Ontario



INDEPENDENT EXPLORATION SERVICES LTD.

P.O. Box 7; Station A; WINNIPEG, MANITOBA ; R3K 1Z9
PHONE (204) 837-7641 or 889-1563 or 889-0751

March 26, 1984

Selco Inc.
534 Berry Street
Winnipeg, Manitoba
R3H 0R9

Attention: Mr. A. Pryslak

Re: DIXIE LAKE PROJECT LINE CUTTING AND STAKING

FINAL INVOICE ON LINE CUTTING & STAKING

CLAIM STAKING

24 claims @ 100.00/claim 2,400.00

LINE CUTTING

Base lines and loop lines
6.89 mi. @ 375.00/mi. 2,583.75

Grid lines
22.26 mi. @ 280.00/mi. 6232.80

TRAIL CLEARING

6 man-days @ 150.00/man-day - 900.00

GRAND TOTAL-----

\$12,116.55

Please pay.

Thank you

L. C. Chastko
L. C. Chastko

213 - 2300 - 06175 = 9716.55

213 - 2200 - 06175 = 2400.00

TORONTO ACCOUNTS:

*PLEASE CHECK THAT ALL ADVANCES
HAVE BEEN DEDUCTED BEFORE
PAYMENT THIS INVOICE.*

*Checked
K. Chastko*

*No more
deductions.*

[Signature]



CRONE GEOPHYSICS LIMITED

8501

3607 WOLFEDALE ROAD, MISSISSAUGA, ONTARIO, CANADA L5C 1V8
TELEPHONE: (416) 270-0096 CABLE: CRONGEO, TORONTO TELEX: 06-961260.

Australian Branch: 244 Newbridge Road, MOOREBANK, N.S.W. 2170 Telephone: (02) 602-0937, Telex: 71-22922

SOLD TO:

SHIP TO:

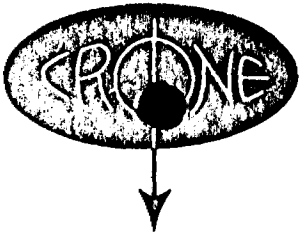
Selco Inc.
55 University Avenue
Suite #1700
TORONTO, Ontario
M5J 2H7

APR 19 1984

CONSULTING CONTRACT SALE RENTAL REPAIR CREDIT

DATE Apr 17/84	SALESMAN	CUSTOMER P.O.	SHIP VIA	TERMS 30 DAYS NET
-------------------	----------	---------------	----------	----------------------

ITEM #	QTY.	DESCRIPTION	PERIOD COVERED	UNIT PRICE	AMOUNT																									
		Re Invoice #8493, the following charges were omitted from the invoice in error.																												
		<u>EXPENSES:</u>																												
		Gasoline Charges			\$ 810.82																									
			15% Handling		121.62																									
<p>SELCO INC.</p> <table border="1"> <tr> <td colspan="2">DATE INVOICE REC'D.</td> <td colspan="2">APPROVED BY</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE PAID</td> <td>PAID BY</td> <td>CHEQUE NO.</td> </tr> <tr> <td>ENTERED ON</td> <td>VENDOR NO.</td> <td>ENTERED BY</td> <td>VOUCHER NO.</td> </tr> <tr> <td>AREA</td> <td>TR.</td> <td>FILE NO.</td> <td>LOC.</td> </tr> <tr> <td>212</td> <td></td> <td>2400</td> <td>06175</td> </tr> <tr> <td colspan="3">TOTAL</td> <td>DOLLARS</td> <td>cts.</td> </tr> </table>					DATE INVOICE REC'D.		APPROVED BY		CHECKED BY	DATE PAID	PAID BY	CHEQUE NO.	ENTERED ON	VENDOR NO.	ENTERED BY	VOUCHER NO.	AREA	TR.	FILE NO.	LOC.	212		2400	06175	TOTAL			DOLLARS	cts.	
DATE INVOICE REC'D.		APPROVED BY																												
CHECKED BY	DATE PAID	PAID BY	CHEQUE NO.																											
ENTERED ON	VENDOR NO.	ENTERED BY	VOUCHER NO.																											
AREA	TR.	FILE NO.	LOC.																											
212		2400	06175																											
TOTAL			DOLLARS	cts.																										
TOTAL					\$ 932.44																									



CRONE GEOPHYSICS LIMITED

8536

3607 WOLFEDALE ROAD, MISSISSAUGA, ONTARIO, CANADA L5C 1V8
TELEPHONE: (416) 270-0096 CABLE: CRONGEO, TORONTO TELEX: 06-961260.

Australian Branch: 244 Newbridge Road, MOOREBANK, N.S.W. 2170 Telephone: (02) 602-0937, Telex: 71-22922

SOLD TO:

SHIP TO:

Selco Inc.
Suite #1700
55 University Avenue
Toronto, Ontario
M5J 2H7

MAY 21 1984

CONSULTING CONTRACT SALE RENTAL REPAIR CREDIT

DATE May 17/84	SALESMAN	CUSTOMER P.O.	SHIP VIA	TERMS 30 DAYS NET
-------------------	----------	---------------	----------	----------------------

ITEM #	QTY.	DESCRIPTION	PERIOD COVERED	UNIT PRICE	AMOUNT
	4	Days Plotting of DEEPEM profiles for the Dixie property <i>For assessment filing.</i> <i>OK, AG</i>		120.00	\$480.00
				TOTAL	\$ 480.00



INDEPENDENT EXPLORATION SERVICES LTD.

P.O. Box 7; Station A; WINNIPEG, MANITOBA R3K 1Z9
PHONE (204) 837-7641 or 889-1563 or 889-0751

February 7, 1984

Selco Inc.
534 Berry Street
Winnipeg, Manitoba
R3H 0R9

Attention: Mr. A. Pryslak

RE: DIXIE LAKE LINE CUTTING & STAKING

INTERIM INVOICE

CLAIM STAKING:

59 claims @ 100.00/claim 5,900.00

LINE CUTTING:

Base lines and loops
7.81 mi. @ 375.00/mi. 2,928.75
Grid lines
22.23 mi. @ 280.00/mi. 6,224.40

TRAIL CLEARING:

8 man-days @ 150.00/man/day 400.00

GRAND TOTAL ----- \$ 15,453.15

Thank you

L. C. Chastko

213-2200-06175

213-2300-06175

6037
5900.00 - 1900 = 4000

9553.15 - 3100 = 6453.15

255.15



INDEPENDENT EXPLORATION SERVICES LTD.

P.O. Box 7, Station A, WINNIPEG, MANITOBA R3K 1Z9
PHONE (204) 837-7641 or 889-1563 or 889-0751

March 7, 1984

Selco Inc.
534 Berry Street
Winnipeg, Manitoba
R3H 0R9

Attention: Mr. A. Pryslak

RE: DIXIE LAKE LINE CUTTING AND CLAIM STAKING

**** INTERIM INVOICE ****

CLAIM STAKING FEES:

48 claims @ 100.00/claim 4,800.00

LINE CUTTING FEES:

Base lines and loops
8.42 mi. @ 375.00/mi. 3,103.75

Grid lines
23.96 mi. @ 280.00/mi. 6,708.80

TRAIL CLEARING

10 man-days @ 150.00/man-day 1,500.00

GRAND TOTAL \$16,192.55

Thank you

L.C. Chastko
L.C. Chastko
President

DISTRIBUTION

213-2200-06175

4800

4542

2300

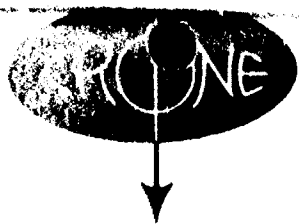
11392.55

6266

1004

2247

213-06175



CRONE GEOPHYSICS LIMITED

8493

3607 WOLFEDALE ROAD, MISSISSAUGA, ONTARIO, CANADA L5C 1V8
TELEPHONE: (416) 270-0096 CABLE: CRONGEO, TORONTO TELEX: 06-961260.

Australian Branch: 244 Newbridge Road, MOOREBANK, N.S.W. 2170 Telephone: (02) 602-0937, Telex: 71-22922

SOLD TO

SHIP TO:

Selco Inc.
Suite #1700
55 University Avenue
TORONTO, Ontario
M5J 2H7

APR 18 1984

CONSULTING CONTRACT SALE RENTAL REPAIR CREDIT

DATE	SALESMAN	CUSTOMER P.O.	SHIP VIA	TERMS
Apr 13/84				30 DAYS NET

ITEM #	QTY	DESCRIPTION	PERIOD COVERED	UNIT PRICE	AMOUNT
		Survey Contract Covering DEEPEM Survey	Feb 23-Apr 3/84		
		Over The: Ear Falls Property Survey By: Phil Hembruff			
	2 1/2	Days Mob/Demob (1 op)		230.00	\$ 575.00
	1	Day mob/demob (2 ops + 1 hlp)		610.00	610.00
	28 1/2	Days DEEPEM Survey		560.00	15,960.00
	22 1/2	Days Second Operator w/Rx		370.00	8,325.00
	27	Days Field Helper (1)		150.00	4,050.00
	2 1/2	Days Bad Weather (2 ops)		460.00	1,150.00
	3	Moving Days		560.00	1,680.00
	134	DEEPEM Profiles		35.00	4,690.00
	12	Fraser Filters		10.00	120.00
					\$37,160.00
		EXPENSES:			
		Meals/Accommodation - \$ 693.01			
		Vehicle Rental, SELCO 4089 km @ .35/km - 2,831.15			
					3,524.16
					528.62
					\$41,212.78

DATE INVOICE REC'D. **APR 24 1984**

CHECKED BY **[Signature]** APPROVED BY **[Signature]** 15% Handling

PAID BY **45795 J** CHECK NO. **660**

ENTERED BY **[Signature]**

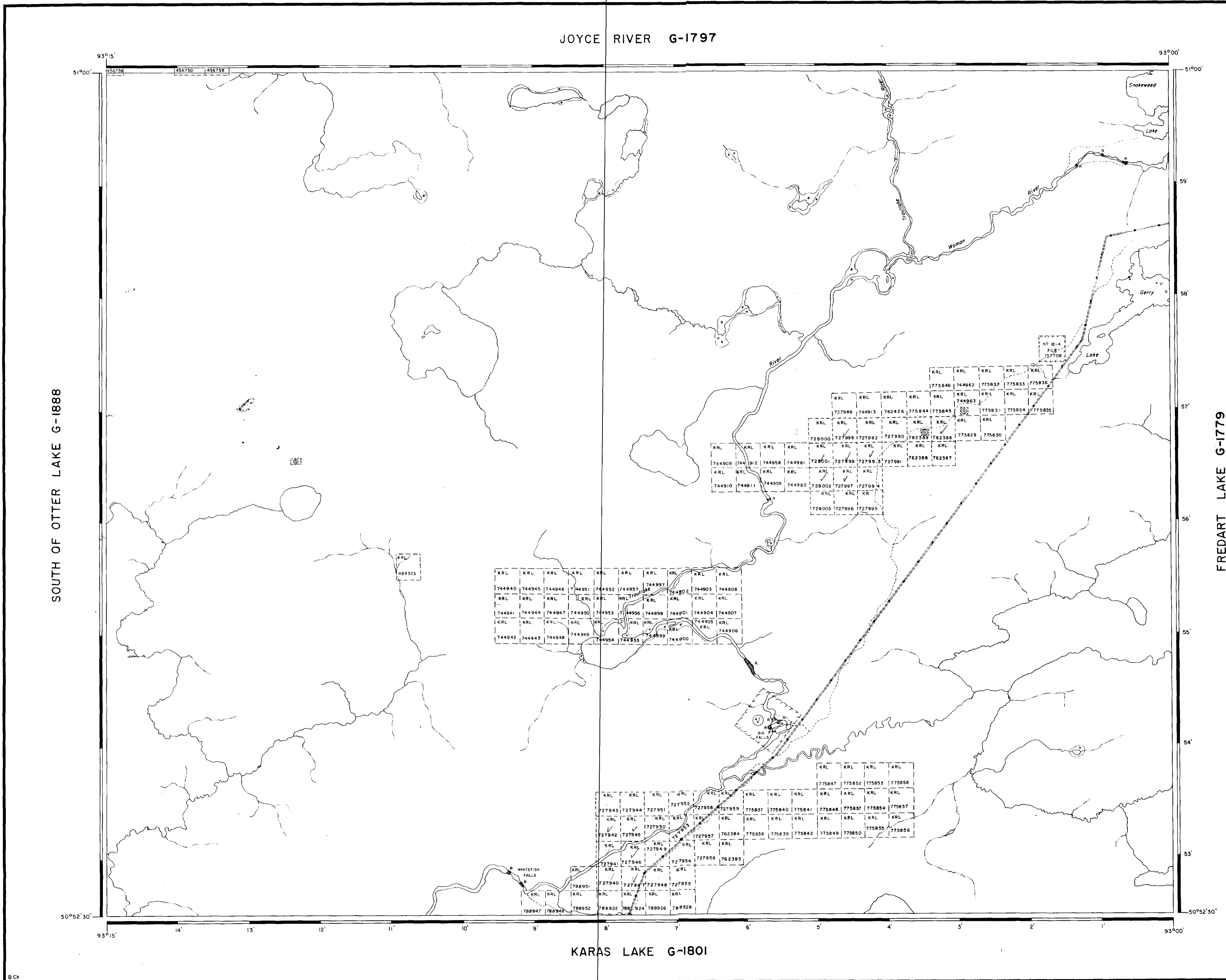
NUMBER **1127**

REF.	DOLLARS	CTS
13	340	06175

G-1185

GERRY LAKE

G-1185



JOYCE RIVER G-1797

KARAS LAKE G-1801

SOUTH OF OTTER LAKE G-1888

FREDART LAKE G-1779

TRIM LINE

TRIM LINE

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
43 MIN ACT		25/8/70	S.R.O.	163474

DATE OF ISSUE
FEB 16 1983
Ministry of Natural Resources
TORONTO

SAND AND GRAVEL

- QUARRY PERMIT

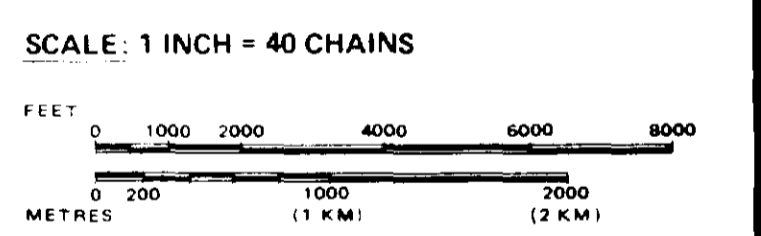
LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES: LOT LINES, PARCEL BOUNDARY, MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	◑
" SURFACE RIGHTS ONLY	◒
" MINING RIGHTS ONLY	◓
LICENCE OF OCCUPATION	◔
ORDER IN COUNCIL	◕
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 4, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910, CHAP. 380, SEC. 63, SUBSEC. 1.



AREA
GERRY LAKE
M.N.R. ADMINISTRATIVE DISTRICT
RED LAKE
MINING DIVISION
RED LAKE
LAND TITLES / REGISTRY DIVISION
KENORA / PATRICIA

Ministry of Natural Resources
Land Management Branch
Ontario

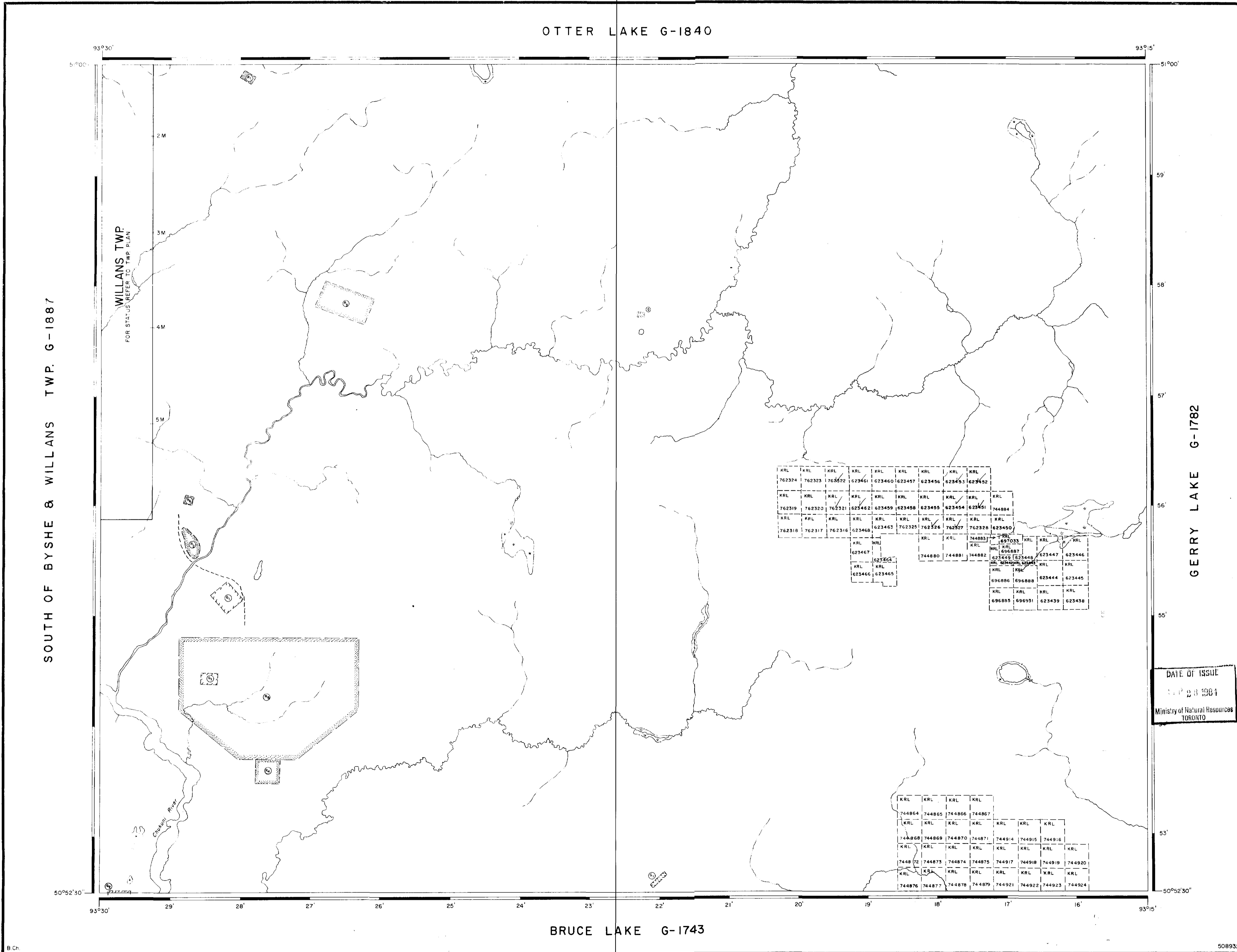
Date: FEBRUARY 16, 1983
Number: **G-1782**



G-1888

SOUTH OF OTTER LAKE

G-1888



REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC 36/80	W 1/82	8/1/82	S.R.O.	
SEC 36/80	W 3/82	8/1/82	M.S.	
SEC 36/80	W 5/82	8/1/82	M.S.	
SEC 36/80	W 64/82	17/12/82	M.S.	165163
SEC 36/80	W 65/82	17/12/82	M.S.	165163
SEC 36/80	W 37/82	19/5/82	M.S.	165163

- SAND and GRAVEL**
- ① QUARRY PERMIT
 - ② GRAVEL, FILE 165163
 - ③ GRAVEL, FILE 96937

LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES:	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES:	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS

DATE OF ISSUE: FEB 1983

Ministry of Natural Resources TORONTO

FEET	0	1000	2000	4000	6000	8000
METRES	0	300	600	1200	1800	2400

AREA

SOUTH OF OTTER LAKE

M.N.R. ADMINISTRATIVE DISTRICT

RED LAKE

MINING DIVISION

RED LAKE

LAND TITLES / REGISTRY DIVISION

KENORA/PATRICIA

Ministry of Natural Resources Ontario

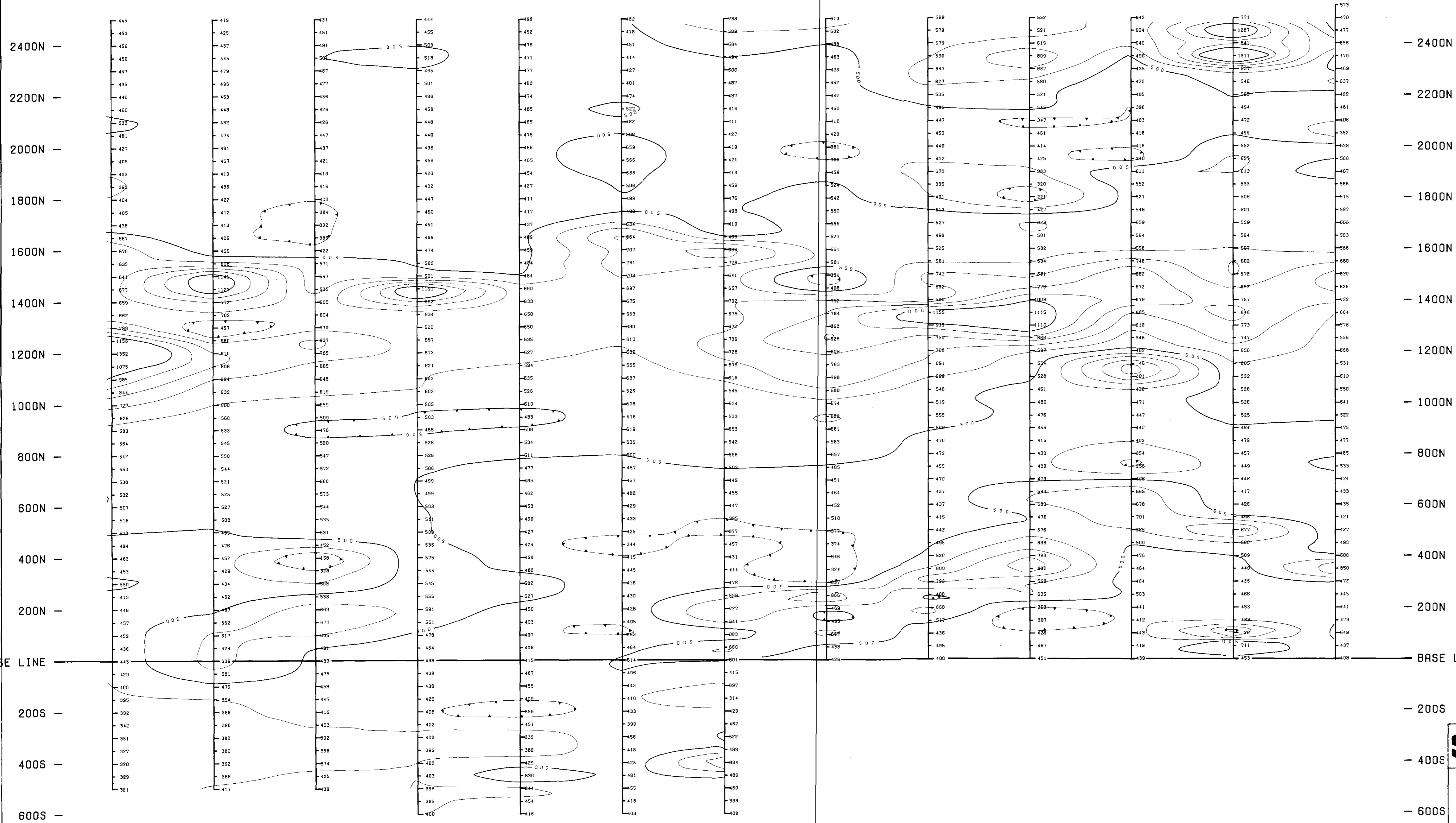
Land Management Branch

Date: FEB. 1983

Number: **G-1888**

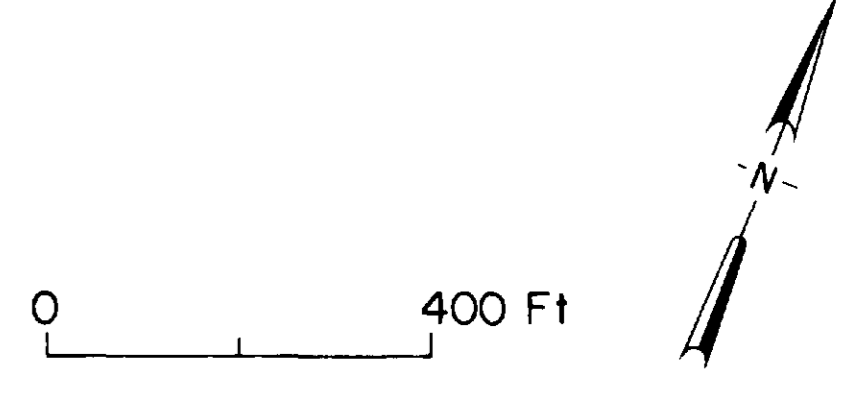


0 400E 800E 1200E 1600E 2000E 2400E 2800E 3200E 3600E 4000E 4400E 4800E



MAGNETOMETER INSTRUMENT
 Type: EDA PPM 300
 Readings in Gammas: { 839
 Scale: 60,000 { 829
 Precision: 732
 Counting Interval: Every 100 gammas

OTHER INFORMATION	
SEE DRWG. NO	TYPE
SB 3799 B(1)	H.L.E.M. (1777 Hz), CLAIMS,
SB 3799 B(2)	LOC. PLAN H.L.E.M. (444 Hz)



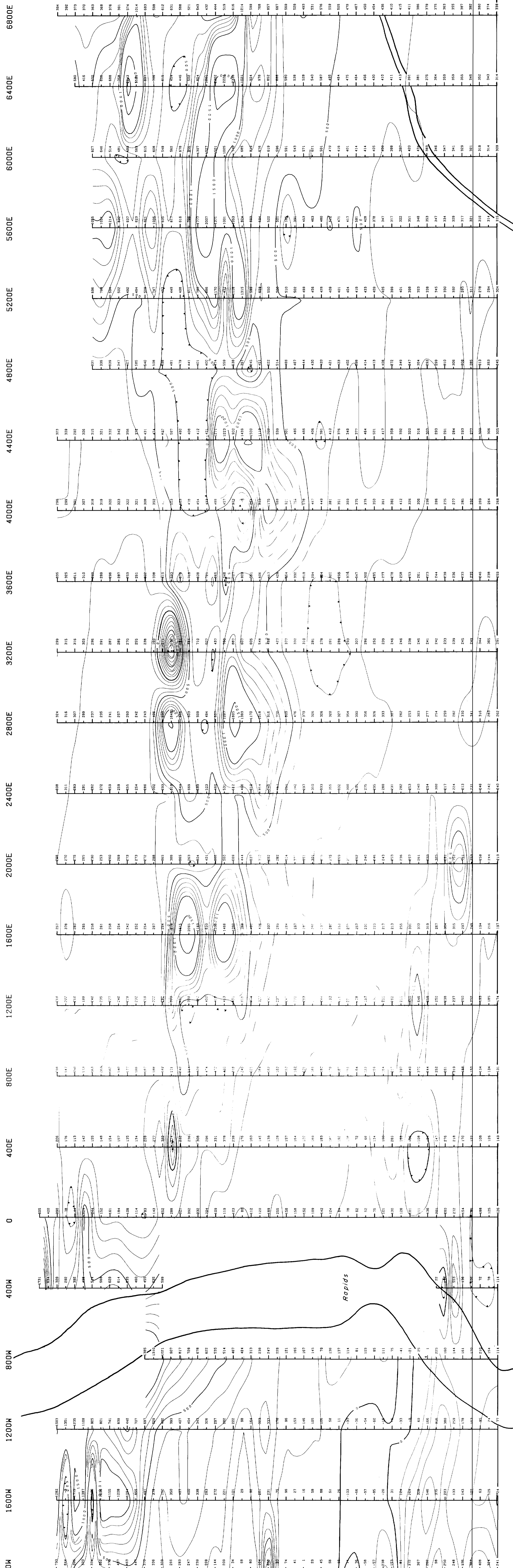
L.P. Pugh 27182

SELCO INC. EXPLORATION

DIXIE-SOUTH BAY PROJECT
 GRID 26 EAST, P.26 — MAG. SURVEY

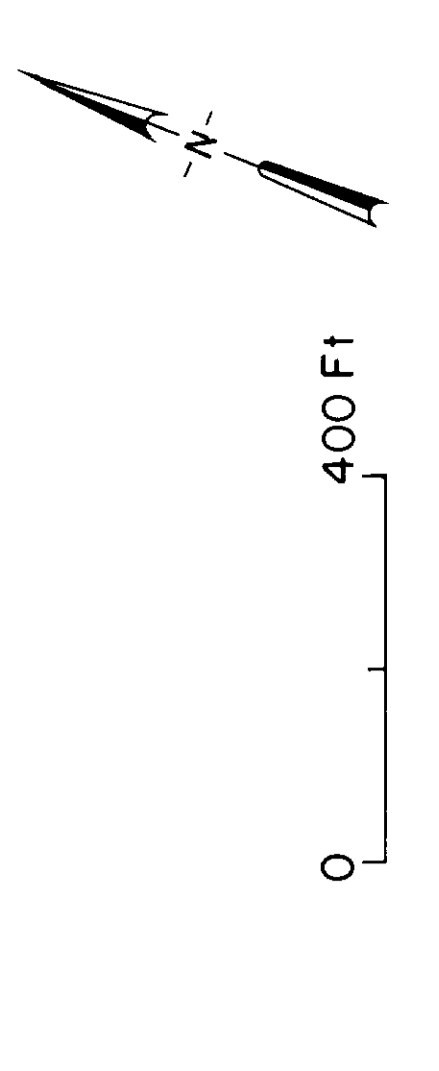
DRAWN BY I.E.S. LTD.	DATE APRIL 1984	N.T.S.	PLAN
TRACED BY C.P.	DATE JUNE 1984	52 K/14	SB 3799





MAGNETOMETER INSTRUMENT
 TYPE: EDA PPM 300
 Readings in Gammas: 612
 Base: 60,000
 Profile:
 Contour Interval: Every 100 gammas to 1000 gammas
 Every 500 gammas thereafter

OTHER INFORMATION
 SEE DRWG. NO. TYPE
 SB 3798 B(1) H.L.E.M. (1777 Hz), CLAIMS,
 LOC. PLAN
 SB 3798 B(2) H.L.E.M. (444 Hz)

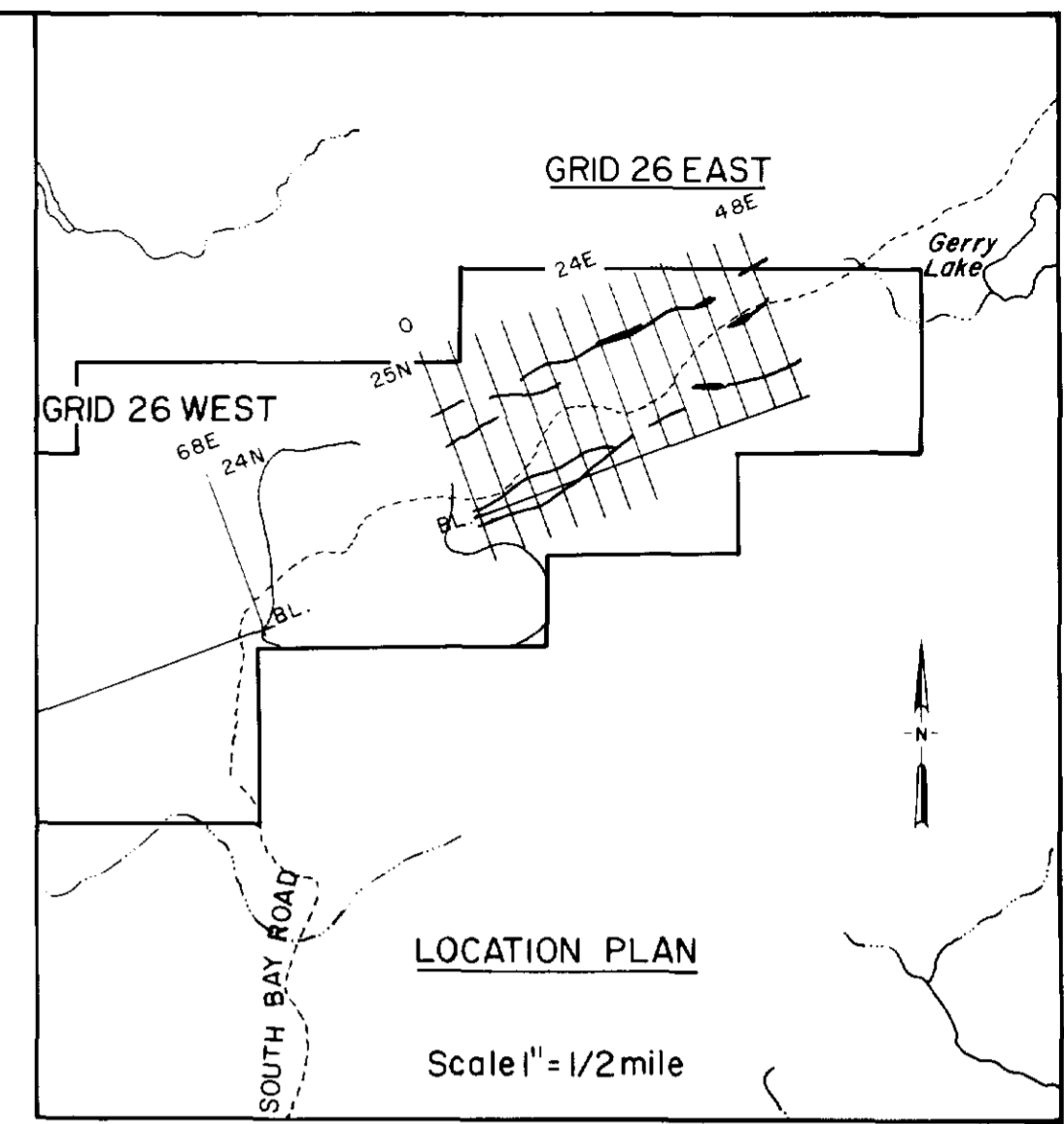
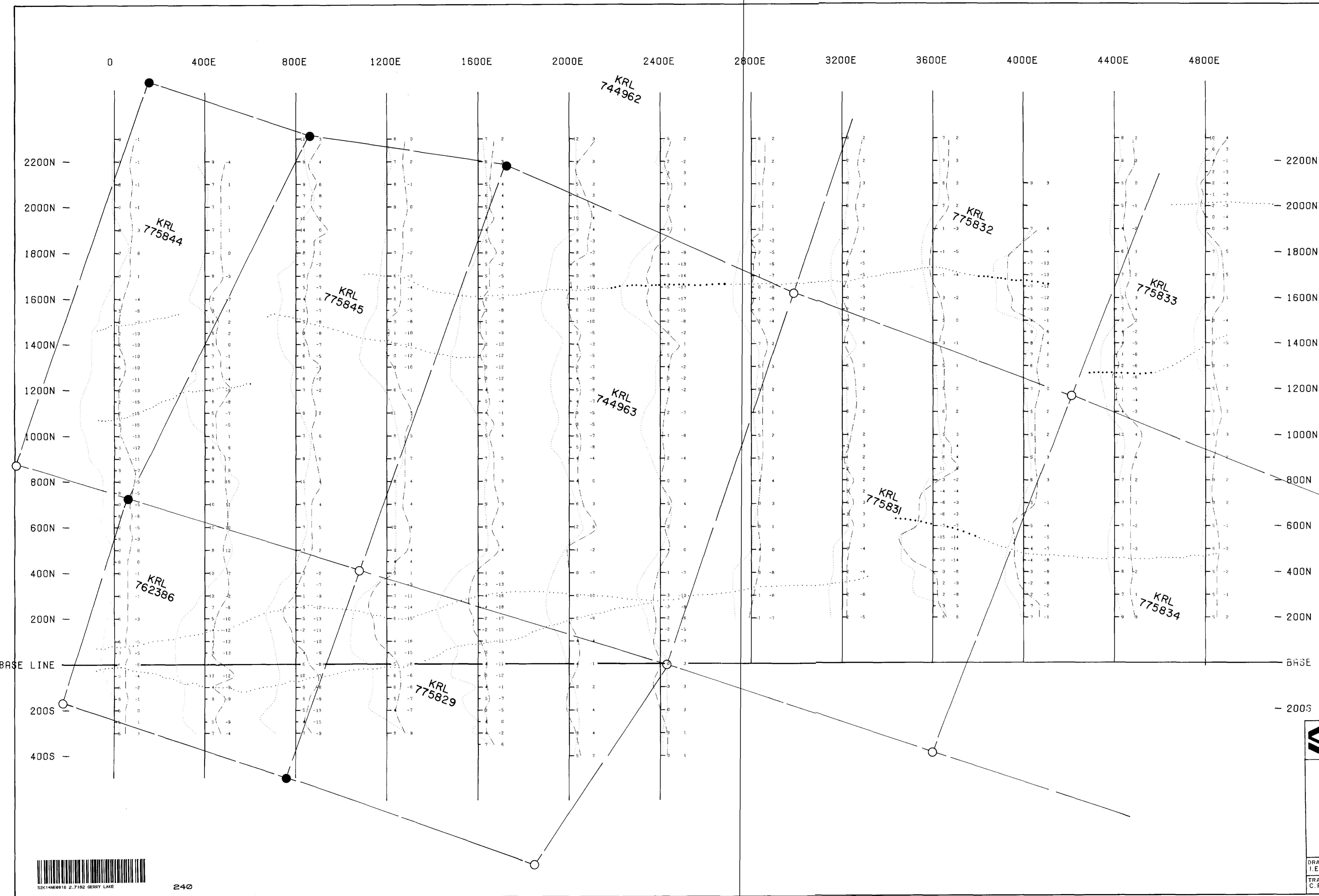


L. P. Lydell
SELCO INC. EXPLORATION

DIXIE-SOUTH BAY PROJECT
 GRID 26 WEST, P. 26—MAG. SURVEY

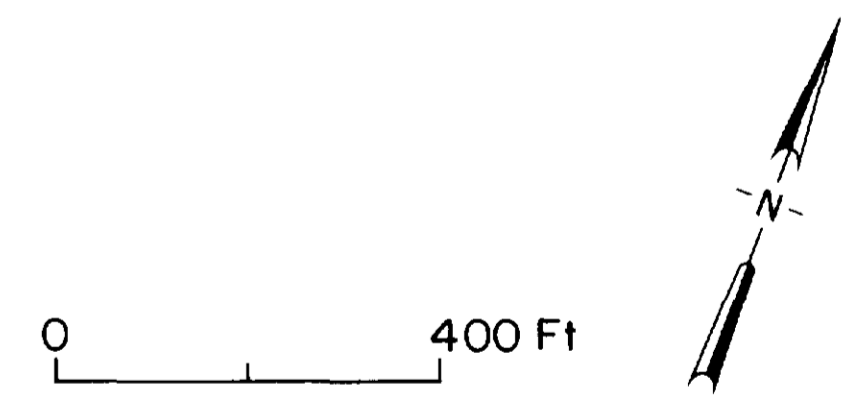
DATE: APRIL 1984
 DATE: JUNE 1984
 PLAN: SB 3798
 DRAWN BY: I.E.S. LTD.
 TRACED BY: C.P.

2600N — 2400N — 2200N — 2000N — 1800N — 1600N — 1400N — 1200N — 1000N — 800N — 600N — 400N — 200N — BASE LINE —



ELECTROMAGNETIC INSTRUMENT
TYPE: APEX MAX-MIN II
HORIZONTAL LOOP (Percent of Primary Field)
Frequency: 1777 Hz
Cable Length: 125m
In Phase: **Out of Phase**
Conductor Width:
Profile Scale: 1" = 20°

OTHER INFORMATION	
SEE DRWG. NO	TYPE
SB 3799	MAG.
SB 3799B(2)	H.L.E.M. (444 Hz)



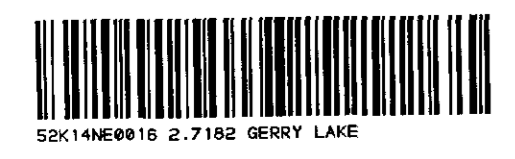
BASE LINE Az 70°

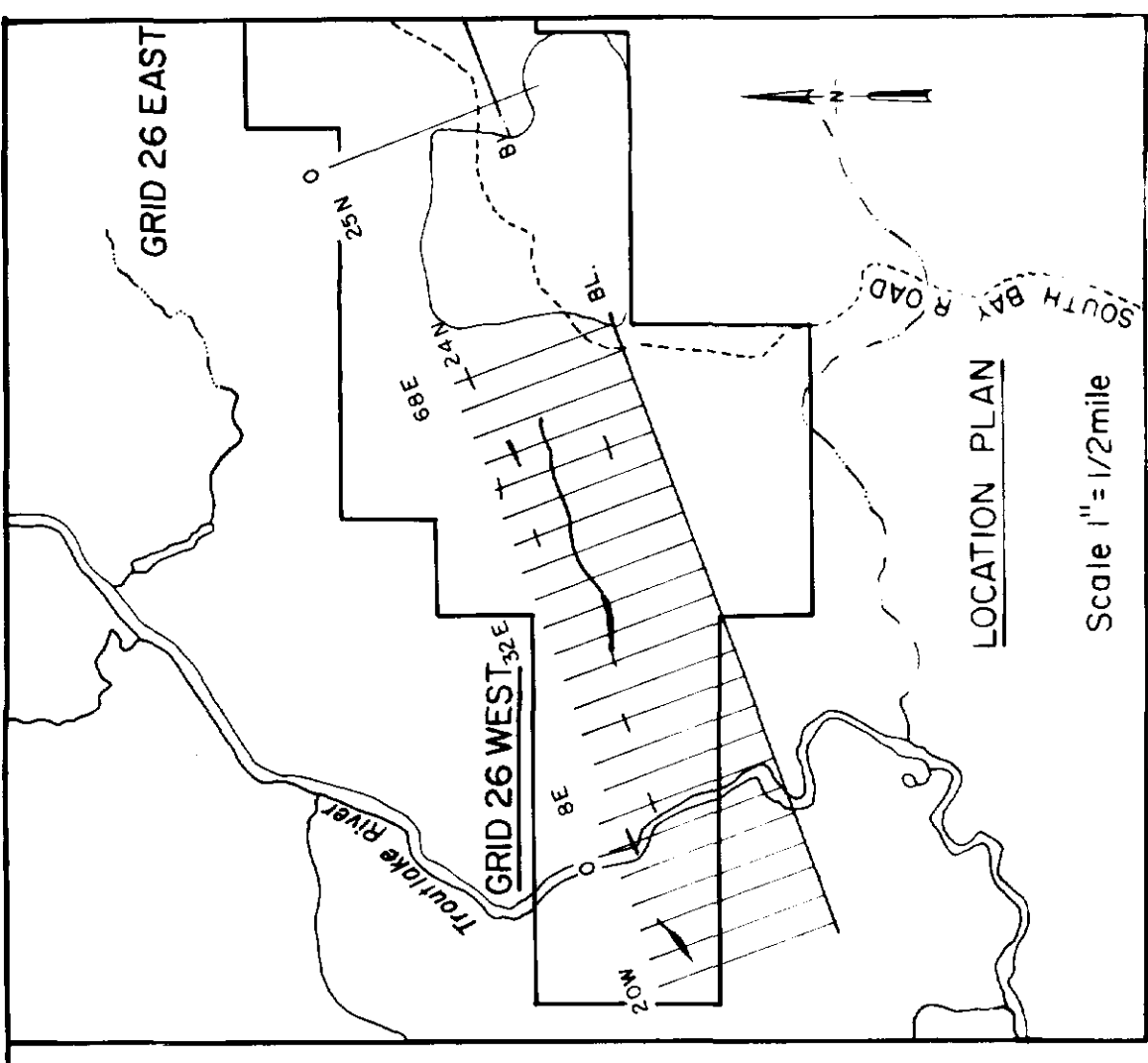
27182
A.P. Russell

SELCO INC. EXPLORATION

DIXIE-SOUTH BAY PROJECT
 GRID 26 EAST, P.26—H.L.E.M. SURVEY

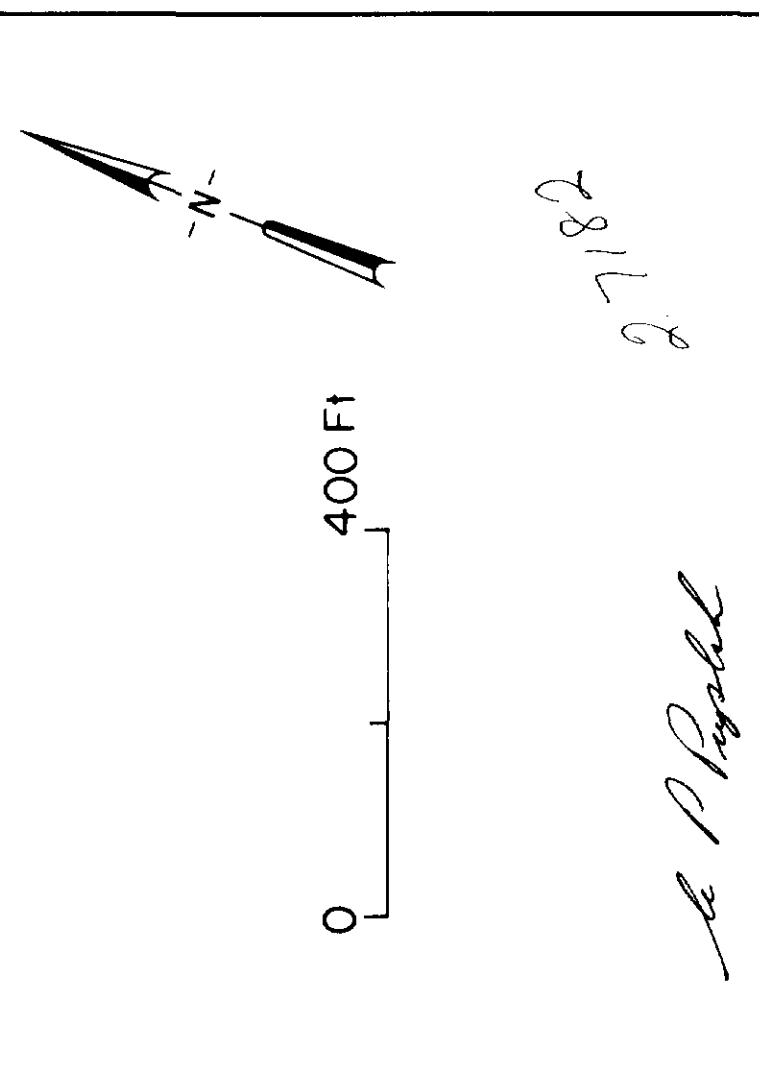
DRAWN BY I.E.S. LTD.	DATE APRIL 1984	N.T.S.	PLAN
TRACED BY C.P.	DATE JUNE 1984	52K/14	SB3799B(1)





ELECTROMAGNETIC INSTRUMENT
 TYPE: APEX MAX-MIN II
HORIZONTAL LOOP (Percent of Primary Field)
 Frequency: 1777 Hz
 Cable Length: 125 m
 In Phase: ●●●●● Out of Phase: ○○○○○○
 Conductor Width: 22/24
 Profile Scale: 1" = 20'

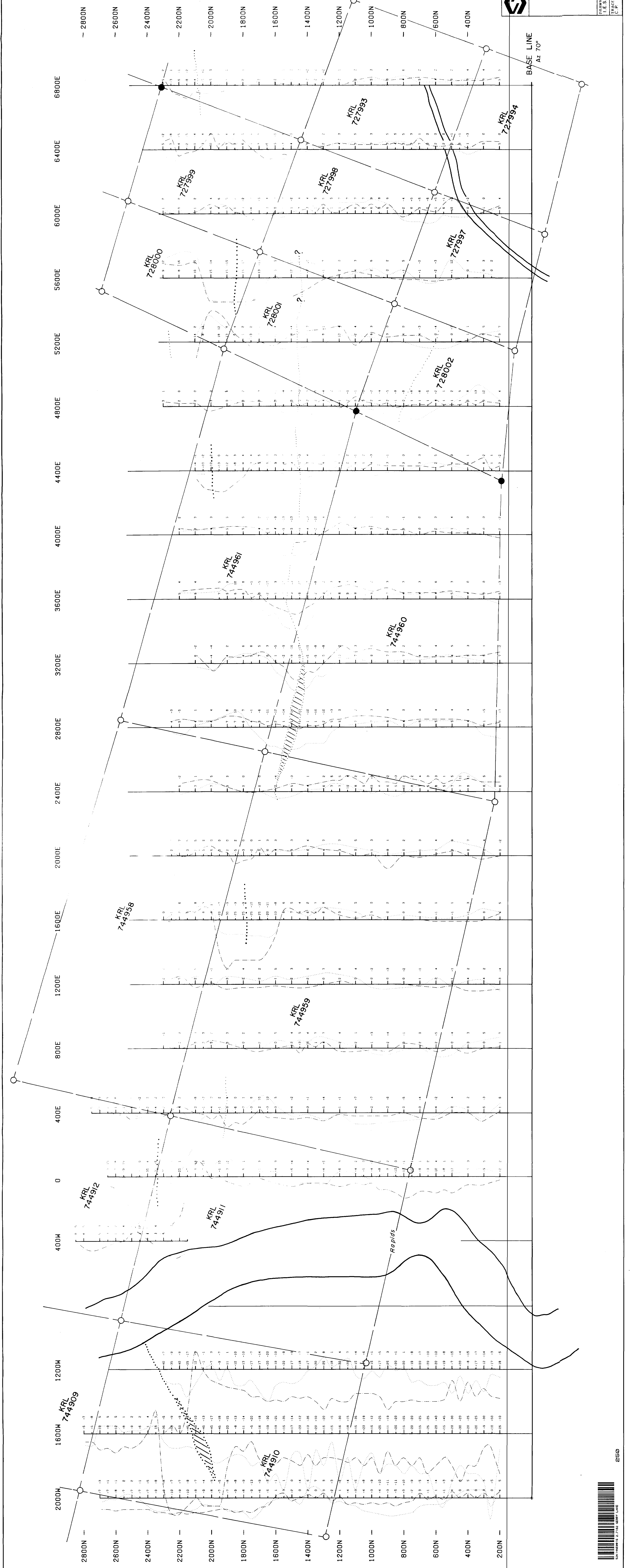
OTHER INFORMATION	
SEE DRAWG. NO.	TYPE
SB 3798	MAC
SB 3798 B(2)	M.L.E.M. (444 Hz)

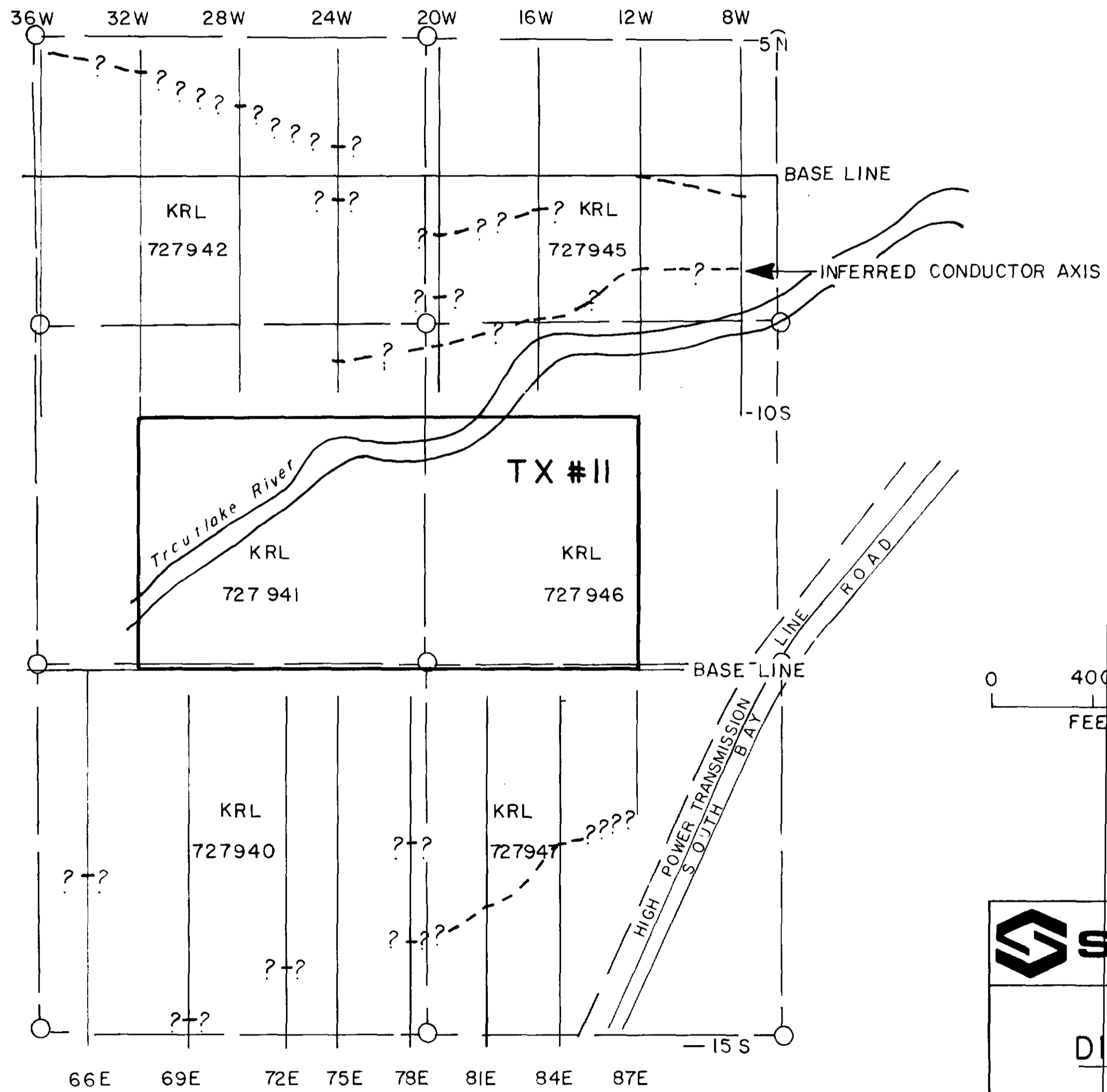


SELCO INC. EXPLORATION

DIXIE-SOUTH BAY PROJECT
 GRID 26 WEST, P.26—H.L. & M. SURVEY

DRAWN BY I.E.S.	DATE APRIL 1984	PLAN N.T.S.	52 K/14
TRACED BY C.P.	DATE JUNE 1984		SB 3798B(1)





2.7182

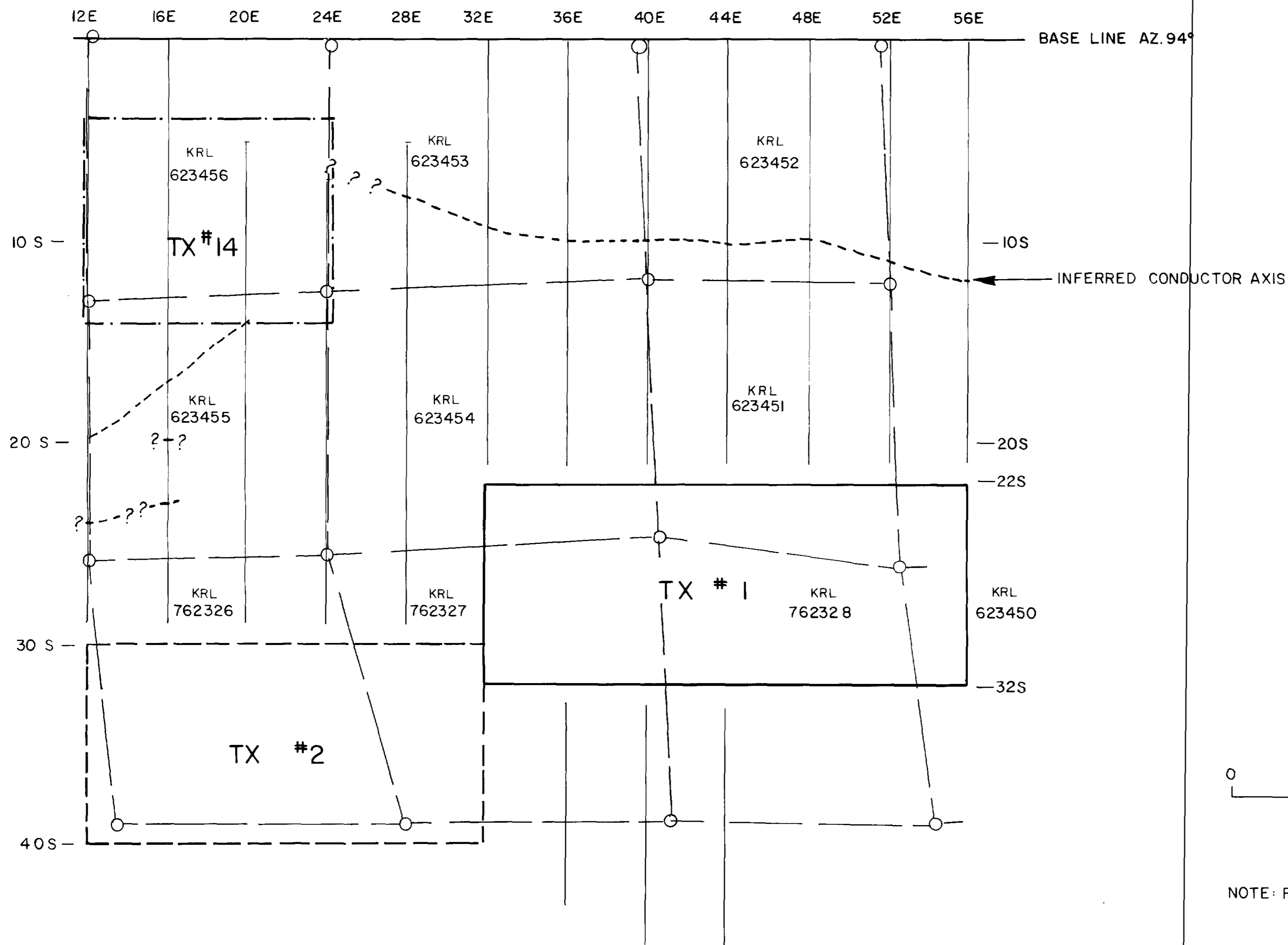
SELCO INC. EXPLORATION

DIXIE- SOUTH BAY PROJECT
 P. 21
CRONE GEOPHYSICS-DEEPEM LOOP LOCATIONS

DRAWN BY M.S.	DATE JULY, 1984	N.T.S.	PLAN SB. 3815
TRACED BY	DATE		



Carroll



NOTE: REFER TO SB.3767 SHEET 2 OF 2

27182

SELCO INC. EXPLORATION

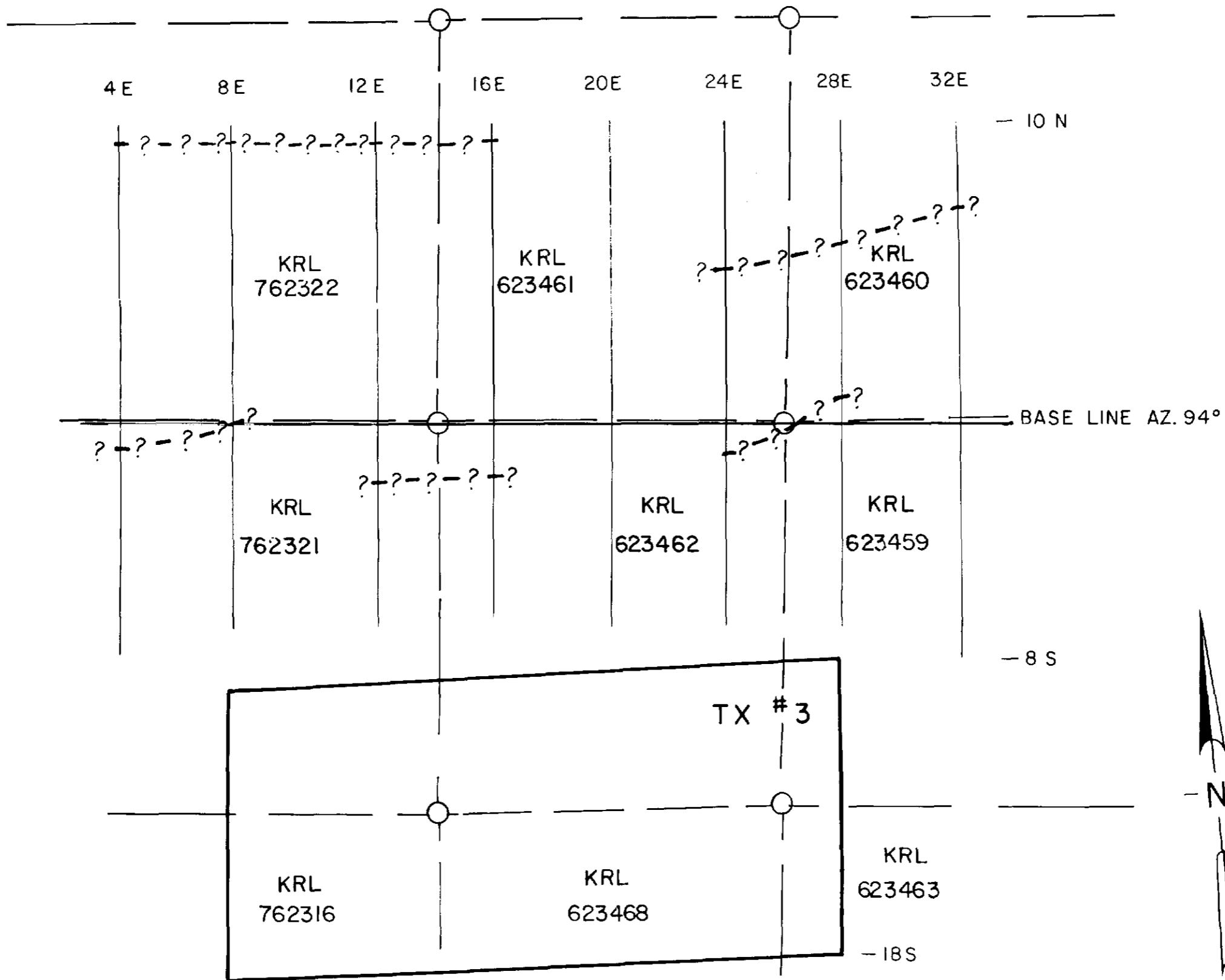
DIXIE - SOUTH BAY PROJECT
 PART OF P.18
 CRONE GEOPHYSICS - DEEPEM LOOP LOCATIONS

SHEET 1 OF 2

DRAWN BY M.S.	DATE MARCH, 1984	N.T.S.	PLAN
TRACED BY M.S.	DATE MARCH, 1984		SB. 3727



Amie Jubin



NOTE: REFER TO SB. 3727 SHEET 1 OF 2

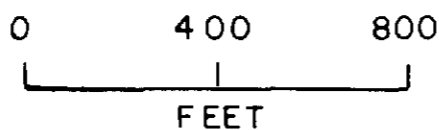
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DIXIE-SOUTH BAY PROJECT
PART OF P.18
CRONE GEOPHYSICS-DEEPEM LOOP LOCATIONS

SHEET 2 OF 2

DRAWN BY M. S.	DATE MAY, 1984	N.T.S.	PLAN SB. 3767
TRACED BY M. S.	DATE MAY, 1984		



Gene Jones

