



31M05NE0126 2.16290 COLEMAN

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**GEOPHYSICAL SURVEYS**  
Property of  
**FALCONBRIDGE LIMITED**  
SASS LAKE Project (PN 6270)  
North Grid & South Grid  
Coleman Twp  
Province of Ontario  
March 1995

P. Boileau

P. Lortie

*Deal. # 2.15146*

*Deal. #  
2.12462*

**2.16290**

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**SUMMARY**

This report presents the results of magnetic and Pulse-EM (Deepem) surveys executed in March 1995 on behalf of **FALCONBRIDGE LIMITED**, on the **SASS LAKE Project (PN 6270)** North Grid & South Grid located in Coleman and Bucke Townships, in Northeastern Ontario.

The surveys detected four strong Deepem conductors, located inside a moderate to locally strong magnetic relief.

Recommendations for further work consist of detail geological mapping and complementary magnetic and Deepem surveys, followed by diamond drilling to test all zones of geologic interest.





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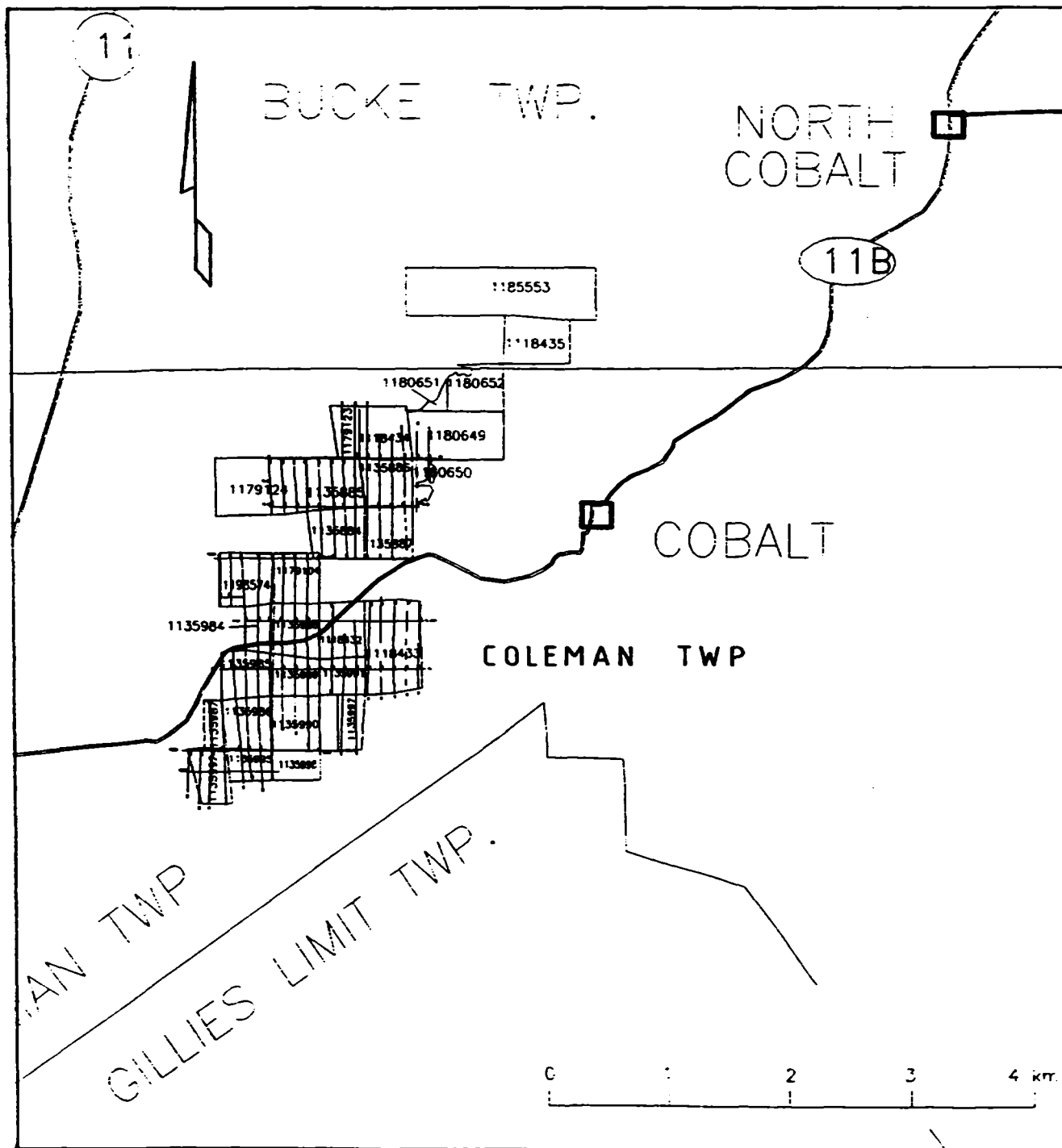
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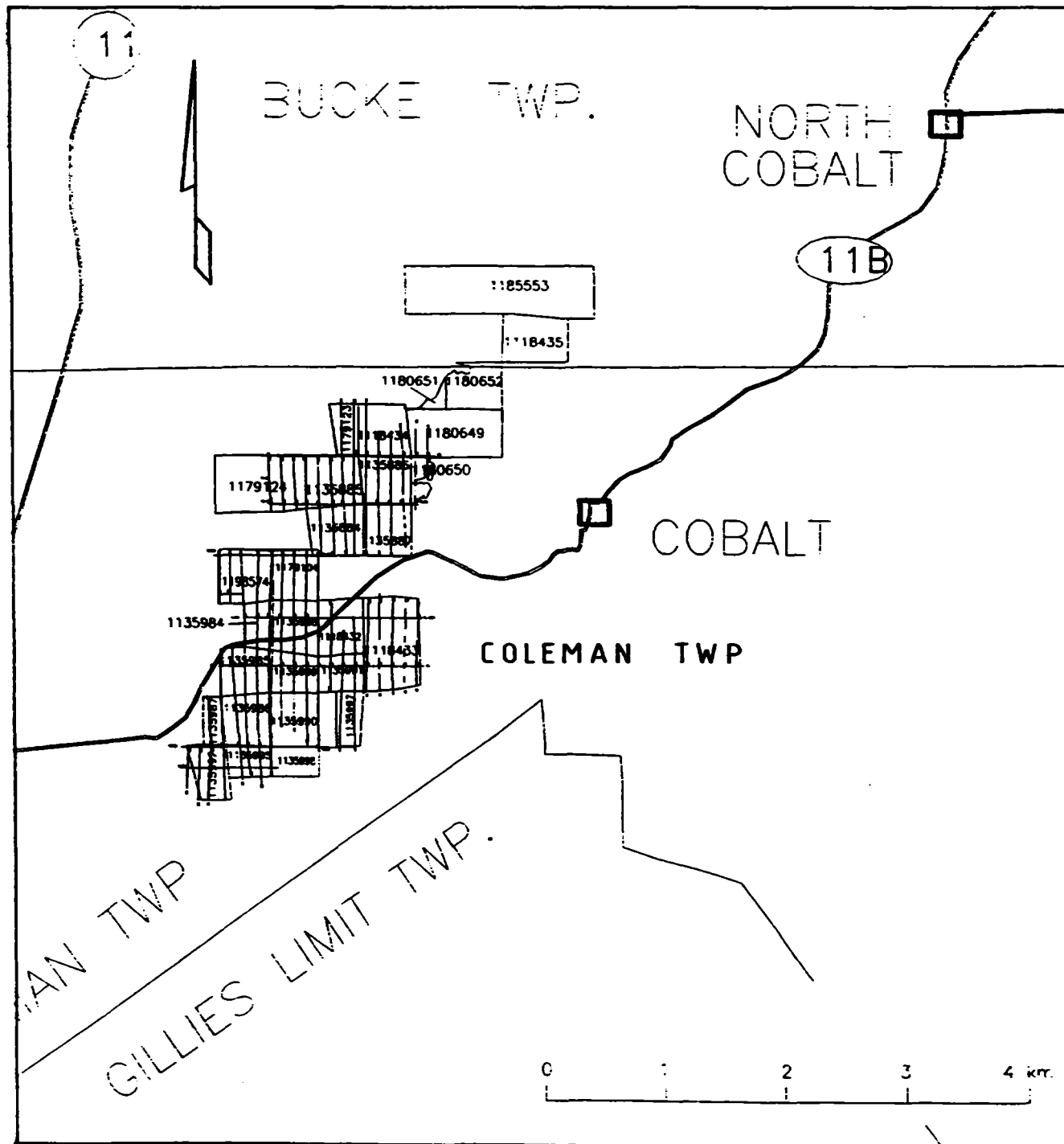


FALCONBRIDGE LIMITED

SASS LAKE (PN 6270) North Grid & South Grid

Figure #2: Area surveyed





FALCONBRIDGE LIMITED

SASS LAKE (PN 6270) North Grid & South Grid

Figure #2: Area surveyed



## **INTRODUCTION**

An electromagnetic Pulse EM (Deepem) survey and a magnetic survey were carried out during the month of March 1995 on a property owned by **FALCONBRIDGE LIMITED**, designated **SASS LAKE Project (PN 6270)**, North Grid and South Grid, in Coleman Township, Province of Ontario.

These surveys were designed to clarify the geological image of the underlying rock formations and to locate at depth anomalies potentially caused by sulphide-rich zones as favourable hosts for base metal and/or gold deposits.

## **PROPERTY, LOCATION AND ACCESS**

The property lies 140 km NE of Sudbury and less than 2 km west of Cobalt, in Coleman and Bucke Townships, province of Ontario. Access is easy via provincial road 11B which traverses the property near the town of Cobalt.

The property claims are wholly owned by **FALCONBRIDGE LIMITED**, and their numbers are shown in figure #1 of this report.

## **WORK COVERED BY THIS REPORT**

From March 10th to 19th, 1995, a magnetic survey and a Pulse-EM DEEPEM survey were executed on the **SASS LAKE Project (PN 6270) North Grid and South Grid**, province of Ontario. In total, 42.7 line-km of magnetic survey and 18.9 line-km of DEEPEM survey were executed on the property.



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## SURVEY SPECIFICATIONS AND INSTRUMENTATION

The geophysical surveys were carried out along a network of N-S picket lines cut at 100 metres intervals. The lines were chained and stations marked at 25 metres intervals.

The magnetic survey was executed with an ENVI proton magnetometer of Scintrex Ltd. The total magnetic field was measured every 2 seconds in a continuous reading mode, with a precision of 0.1 nanoTesla (nT). The readings were systematically controlled for location every 12,5 metres. The magnetometer was operated with the sensor mounted on top of a backpack frame. The noise envelope is estimated at less than 5 nT after a short wavelength filter was applied to remove noisy spikes. A base station magnetometer located on the property to measure the total magnetic field every 20 seconds was used as a reference for correction of the diurnal variation.

The DEEPEM survey was executed with the Crone Geophysics Pulse-EM (PEM) system. The PULSE-EM system consists of two main components: the transmitter and the receiver. The transmitter, powered by a 4000 Watt gas generator (High-Power System) produces a rectangular wave with a linear ramp cut-off. This signal is circulated in a single-turn loop of electric wire laid out on the ground and whose dimensions are dictated by the conductivity of the surrounding medium and by the required depth penetration. A total of 4 transmitting loop positions (shown on maps 5.1 and 5.3) were alternatively used with dimensions of 425 to 500 m x 600 to 800 m.



The sudden cut-off of the current in the transmitting loop (typically 12 to 18 Amperes) causes the induction of secondary currents in any conductive structure that is located within the activation distance of the loop.

The second component of the system, the receiver, detects the variations of the magnetic field associated with these secondary currents. A sensor picks-up the signal at surface and the receiver measures the amplitude of the 16 time-windows of the decaying secondary magnetic field. The decay rate, the amplitude of the individual windows (channels), and the spatial variations of these features are all specific characteristics of the target.

Measurements for each loop position were taken every 50, and locally 25 metres, along the survey lines. The decaying secondary magnetic field is measured in two components: the vertical component (Z) and the horizontal component (X) which is parallel to the survey line. The results are presented in the form of profiles of the amplitude of the individual channel, plotted against the reading point.

## RESULTS AND INTERPRETATION

### A) Magnetic Survey

The areas covered by the present survey show a moderate to strong magnetic relief where total field intensities fluctuate between 57 500 and 58 200 nanoTeslas in general. This magnetic relief is characterized by a very rapid succession of low and high total field intensities along most of the profiles. These fast changes which are likely due to





very shallow and rather small size magnetic sources (pyrrhotite and/or magnetite) produce on the magnetic contour map a rather spotty appearance which reflects the heterogeneity of the underlying rock units.

An upward continuation (5 m) of the gridded data allowed, however, to define a few principal features. In the North grid, the magnetic image is dominated by the presence of two zones of magnetic highs of about 200 to 1000 nT, both flanked to the south by a zone of magnetic low. On the South Grid, the survey detected a few more or less continuous zones of magnetic highs which locally show orientations varying from E-W to N-S.

Finally, the sudden breaks or inflexions noticed along most of the anomalies suggest intense folding or faulting on the property.

#### **B) Deepen Survey**

The survey detected mainly four strong conductors showing an E.NE-W.SW to E.SE-W.NW orientation.

On the North grid, two conductors were outlined with loop #4. The first one, which also produces the strongest responses, is present from L-7W to L-2W between 100S and 250S. This conductor shows a conductance of more than 40 mhos and an extension at depth which is estimated to be more than 200 m from the latest channel (16) responses, whereas the early channels often indicate an upper limit at less than 20 m. Moreover, the strong migration noticed between the late and early channels responses seems to indicate a dip which vary



from southerly on lines 6W and 7W to northerly on lines 4W, 3W and 2W. The strong and apparently isolated response picked-up on line 1W near BL could also possibly constitute the northeast extension of this conductor shifted to the North by a fault or a tight fold. Finally, two satellite responses were detected on lines 4W and 3W near 100S and 300S; these weaker anomalies seem to indicate shallow conductors (depth < 20 m) of lower conductances (9 to 14 channels).

A second strong conductor was found with loop #4 between stations 150N and 250N. The best responses were partially detected near the extremity of lines 1W to 3E with a possible extension to the East; they seem to indicate a conductor of more than 40 mhos apparently located at shallow depth, except on line 2E where a depth of 200 m was estimated.

A third conductor was partially detected with loop #3 near the southern end of lines 5W to 3W; the profiles indicate a moderate to strong conductor (13 to 16 channels) located at a depth varying from less than 5 m to more than 100 m.

On the South Grid, a fourth conductor was delineated with loop #2 between lines 2E and 5E with a possible extension to the southeast; this conductor is located at a depth of 0 to 50 m and presents a moderate to strong conductance (14 to 16 channels). Except for the responses produced by the powerline, no definite conductor was detected with loop #1.

Finally, a few isolated and weaker responses were also outlined on the property, the principal ones being located on L-2W near 0+25S, on L-1W near 5+00S and on L-1E near 6+50S.



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**CONCLUSION AND RECOMMENDATIONS**

The geophysical surveys executed on the North Grid and South Grid of the **SASS LAKE Project** detected four moderate to strong DEEPEM conductors located in a moderate to locally strong magnetic relief influenced by near surface magnetic sources.


It is recommended to execute, if warranted, intermediate magnetic profiles at 50 m intervals in order to obtain a more precise and complete magnetic image of the underlying rock formations.

It is also, recommended to execute complementary Deepem profiles with, in some cases, different loop locations to try to confirm or complete the interpretation of the four conductors and, overall, to try to study the spatial relation possibly existing between the northernmost conductors.


Recommendations for further work finally consist of diamond drilling to test all conductors.

Respectfully submitted  
VAL D'OR GEOPHYSIQUE LTEE

By:

  
Pierre Boileau, P.Eng.  
Consulting Geophysicist

and by:

  
Paul Lortie, P.Eng.  
Geophysicist



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**CERTIFICATE**

I, undersigned, Pierre Boileau, P.Eng., certify that:

I reside at 1725 Duchesne, Val d'Or, Quebec, since 1981.

I am a graduate of Ecole Polytechnique, Universite de Montreal, Quebec where I have obtained a B.Sc.A. in Geological engineering in 1971.

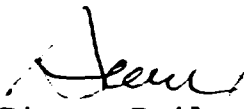
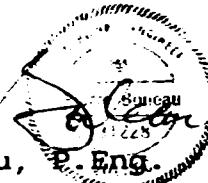
I have been engaged in Exploration Geophysics since 1968 and have been practicing as a professional engineer since 1971.

I am a member of the Ordre des Ingenieurs du Quebec, the Quebec Prospector Association, the Prospector & Developers Association of Canada, the Society of Exploration Geophysicist and the Canadian Institute of Mining & Metallurgy.

This report is based on the information contained in the survey described. The interpretation of the data was made using methods known in the literature and based on my personal experience.

I have not received, nor do I expect to receive directly or indirectly any interest in the property that belongs to **FALCONBRIDGE LIMITED.**

Signed in Val d'Or, this April 6th, 1995.

  
  
Pierre Boileau, P. Eng.  
Consulting Geophysicist



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**CERTIFICATE**

THIS IS TO CERTIFY THAT:

I reside at 681 Boullé, Beloeil, Province of Quebec, Canada, since 1990.

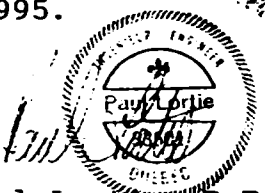
I am a graduate of Ecole Polytechnique, Université de Montréal, where I have received a B.Sc.A. in Geological Engineering in 1979.

I have been engaged in exploration geophysics since 1977 and have been practicing as a professional engineer since 1979.

I am a member of the Ordre des Ingénieurs du Québec since 1979.

I do not hold nor do I expect to receive an interest of any kind in the exploration concessions held by **FALCONBRIDGE LIMITED**, on the **SASS LAKE Project (PN 6270)**.

Signed in Val d'Or, this April 6th, 1995.

  
Paul Lortie, P.Eng.  
Geophysicist



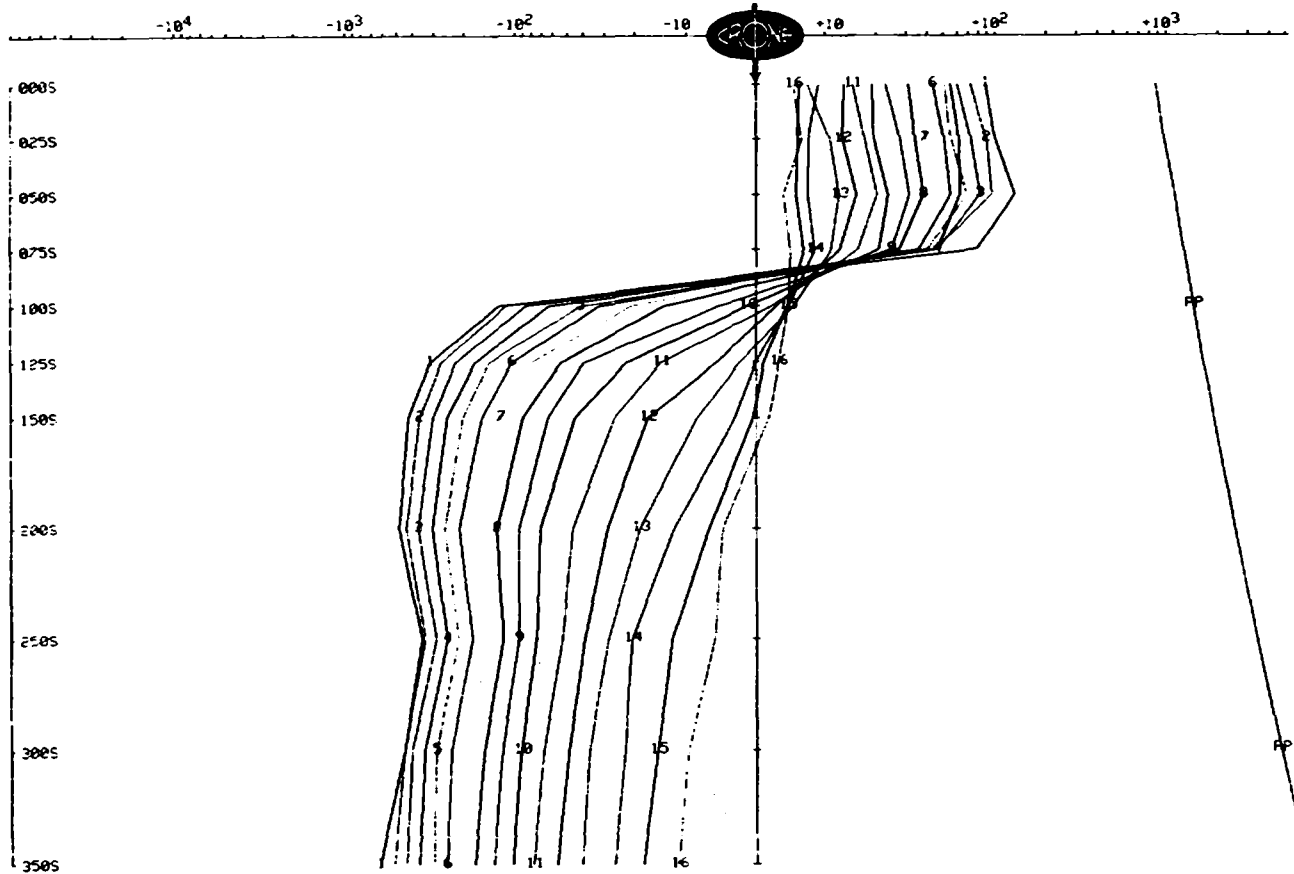
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Scale: 1:2500



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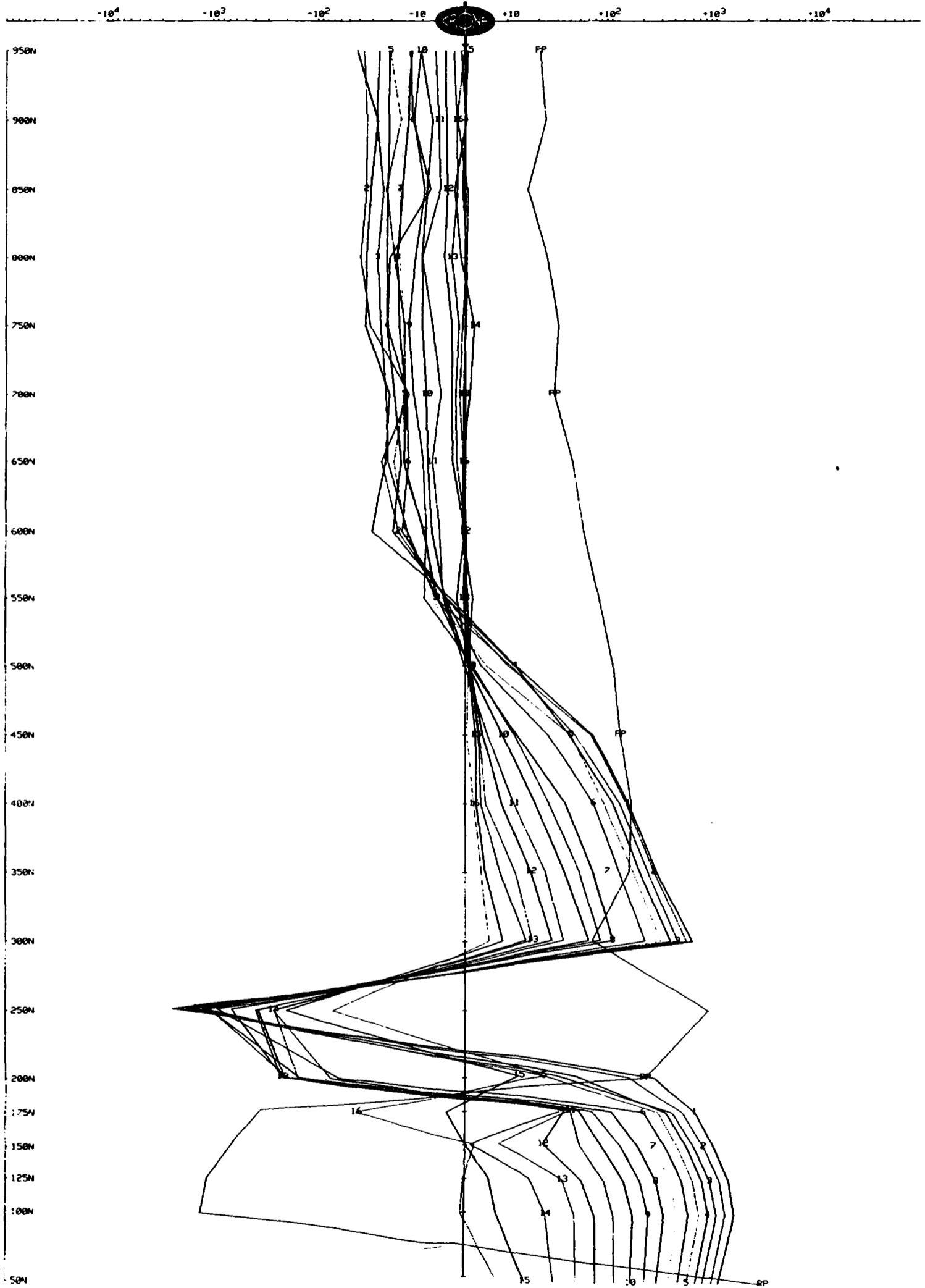
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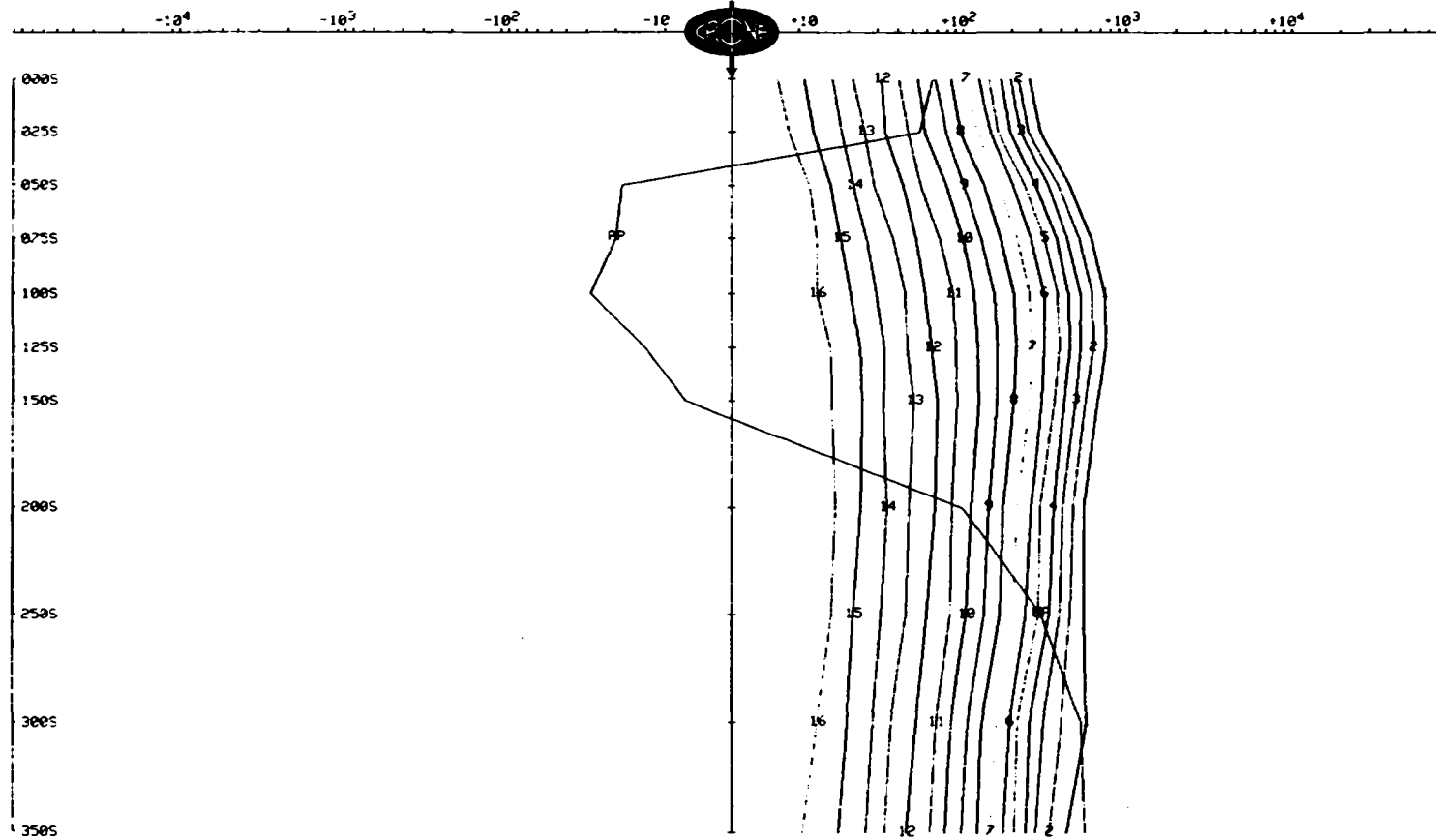
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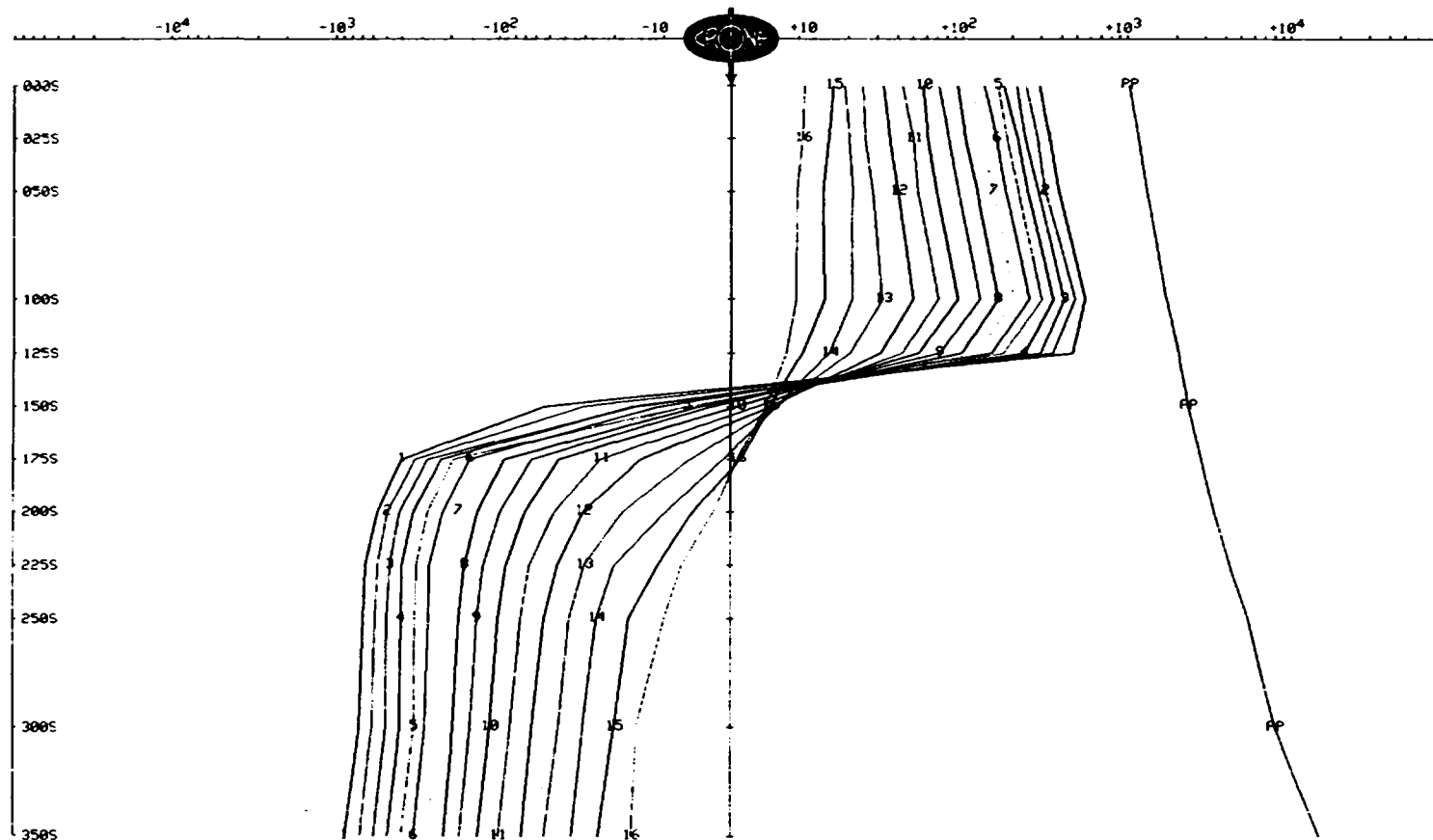
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Scale: 1:2500



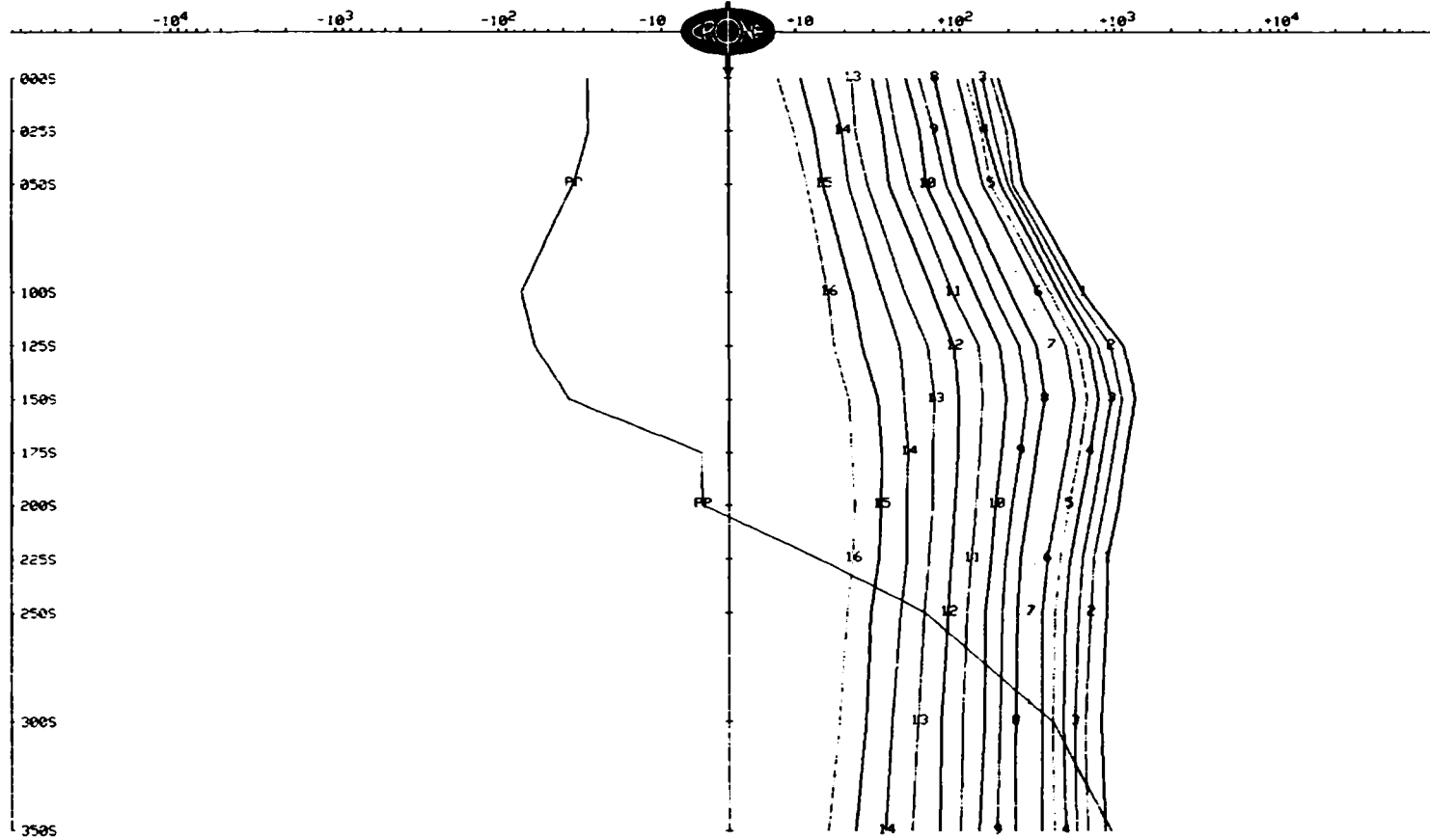
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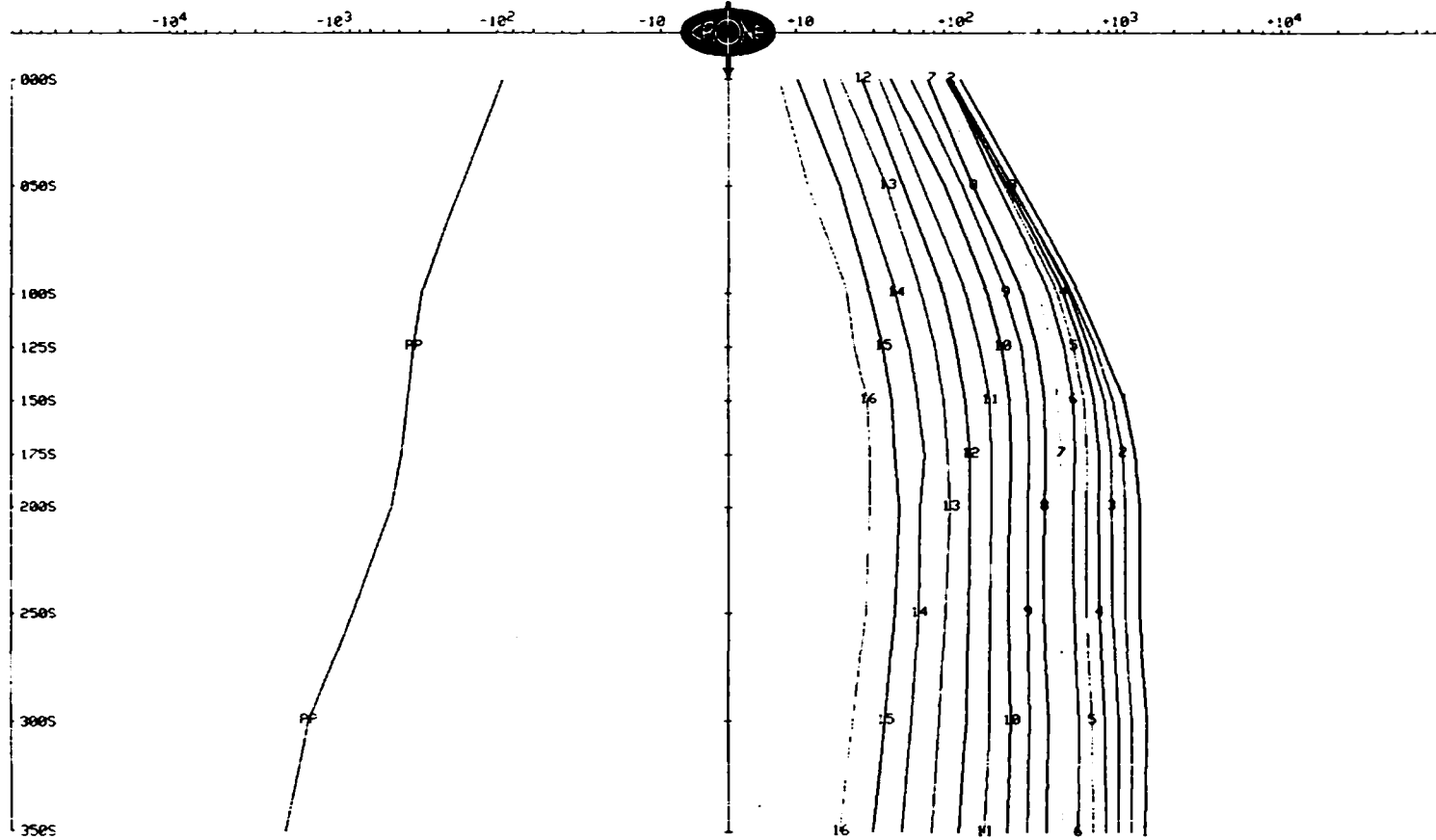
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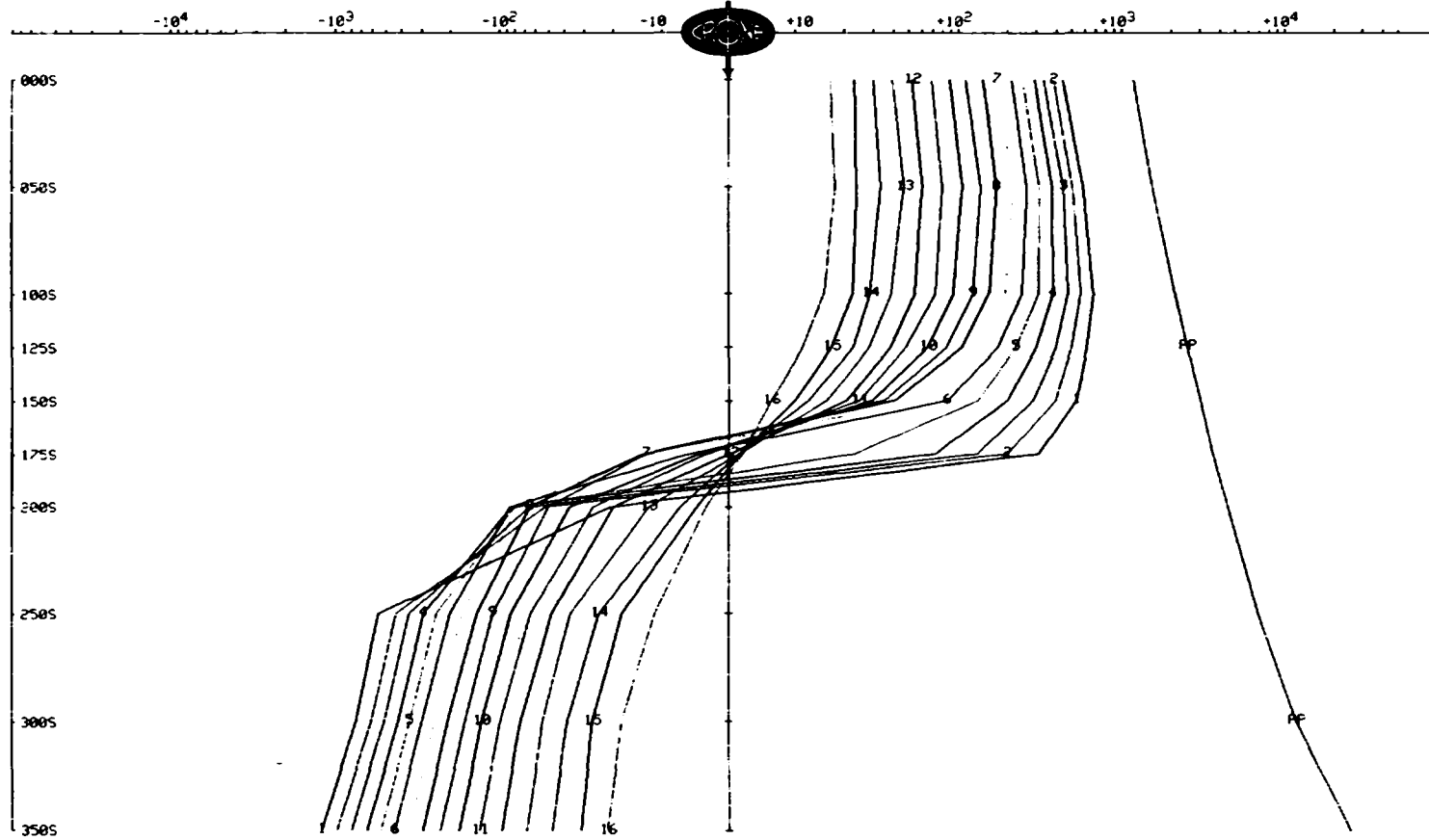
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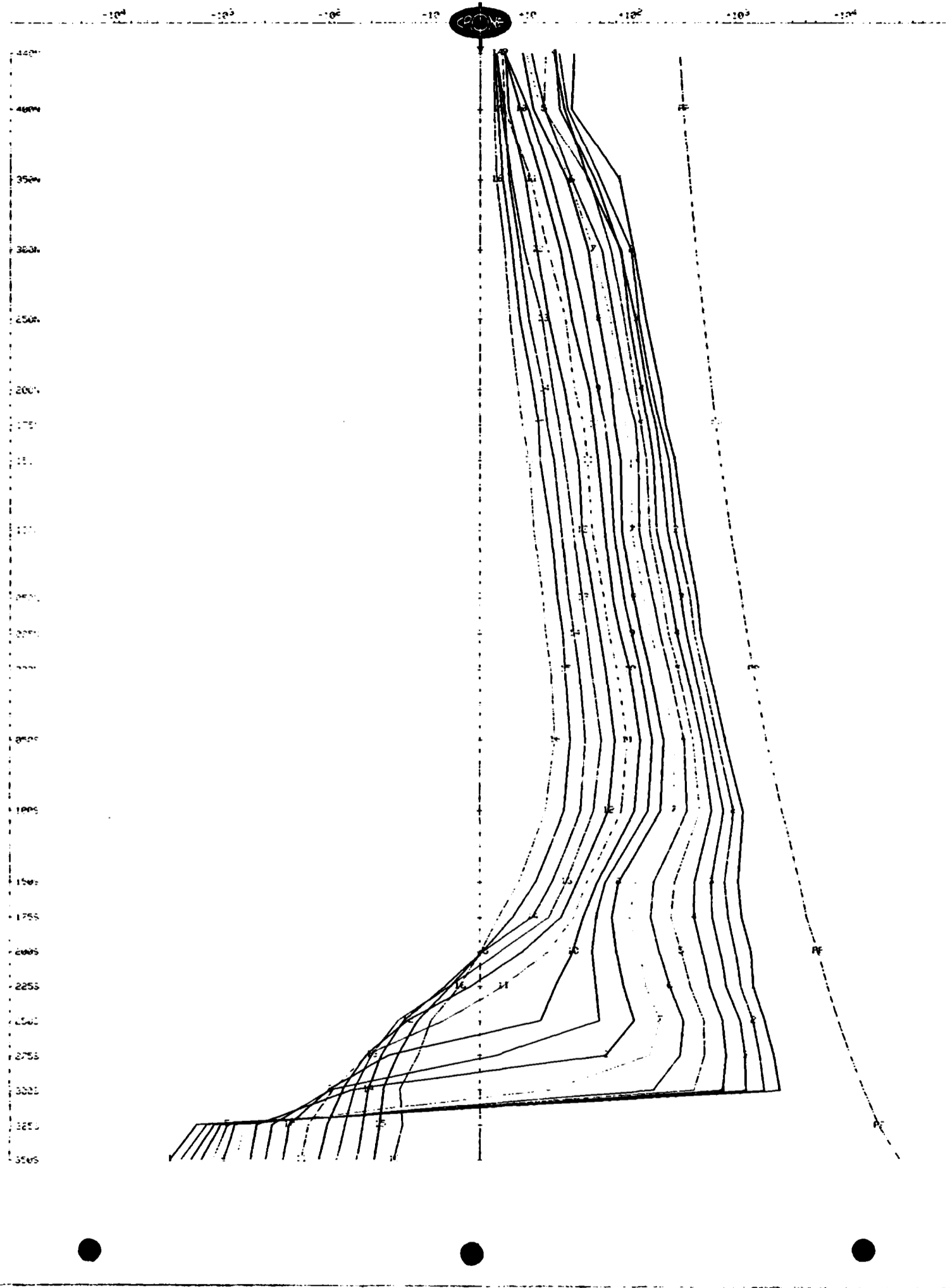
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VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



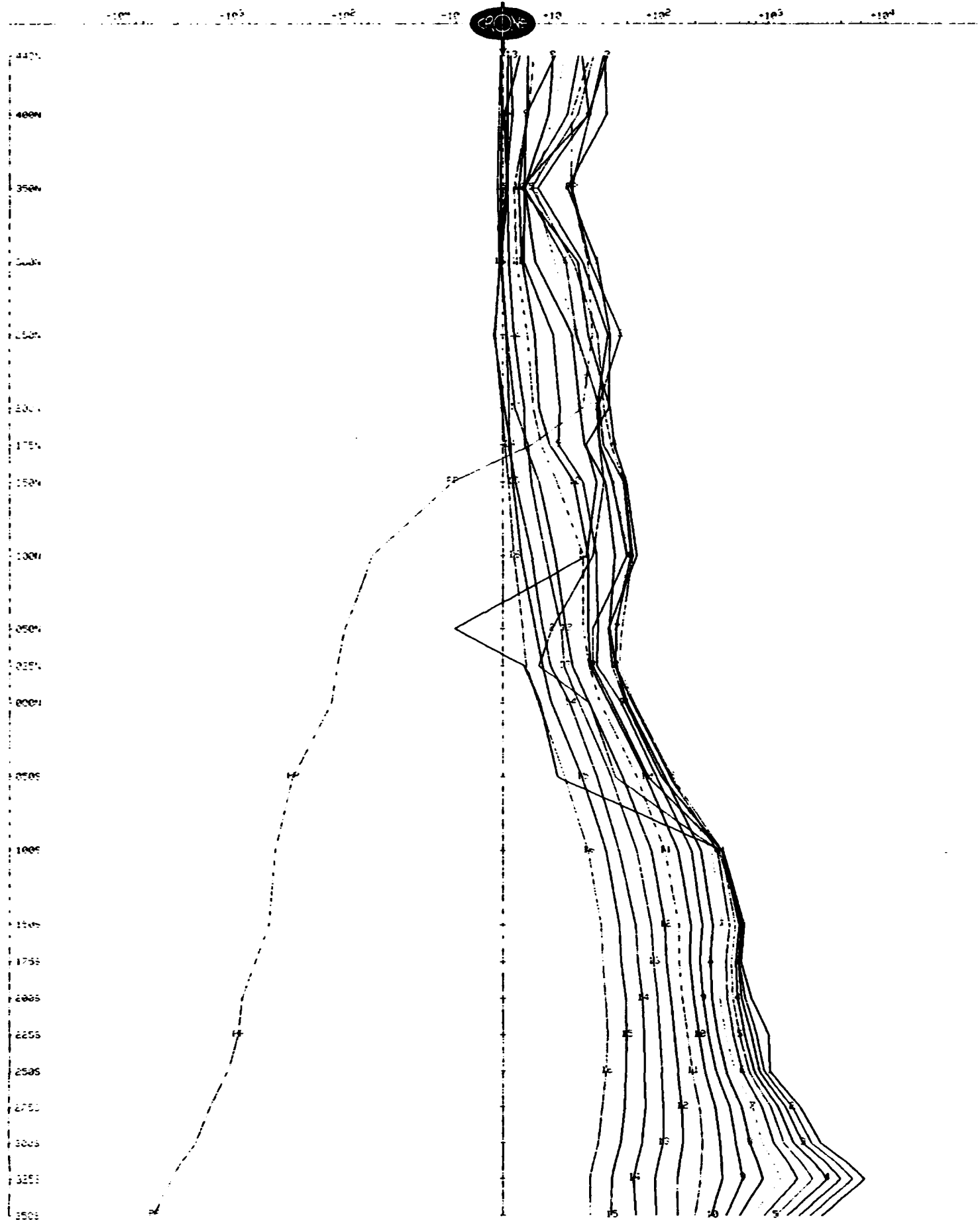
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IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

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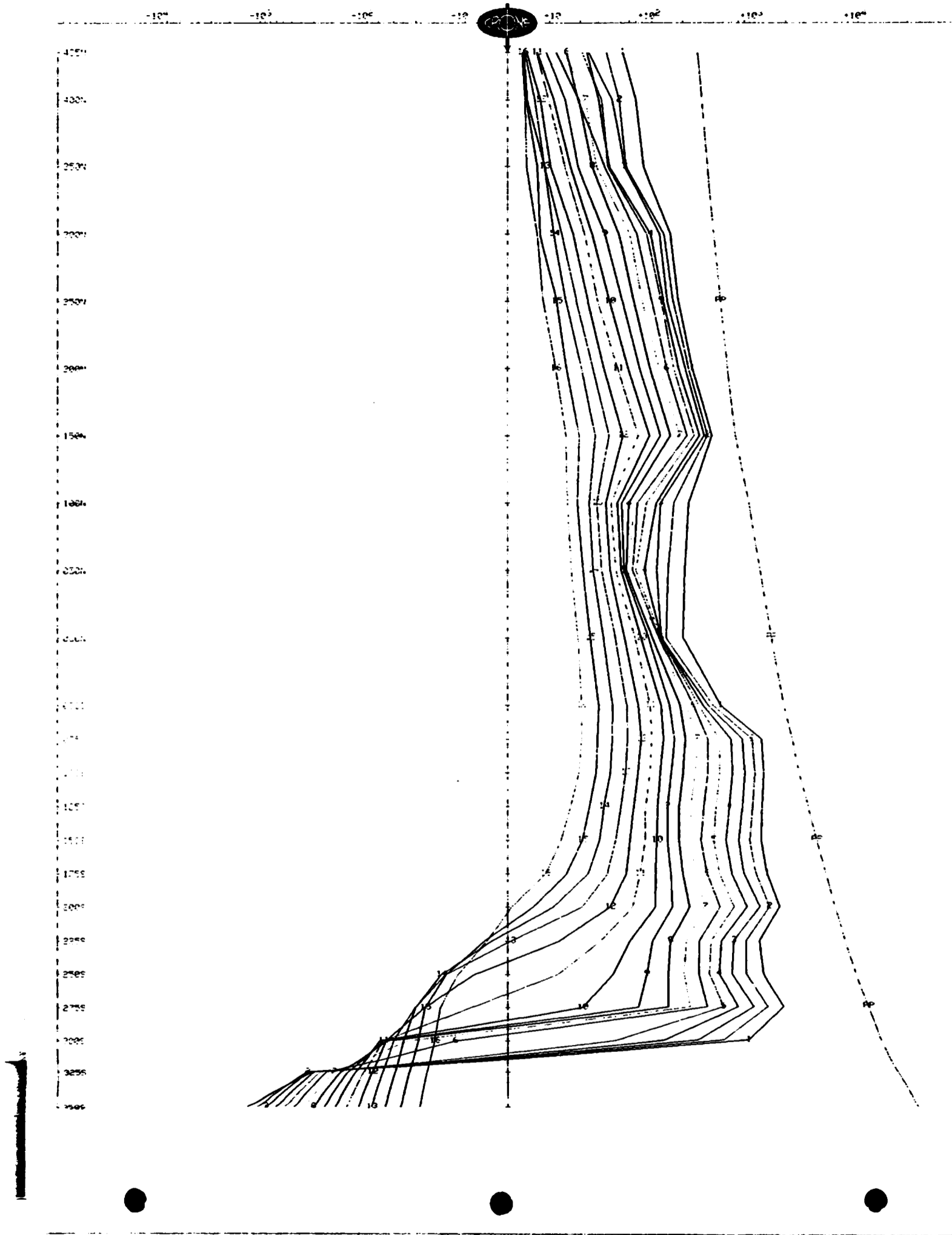


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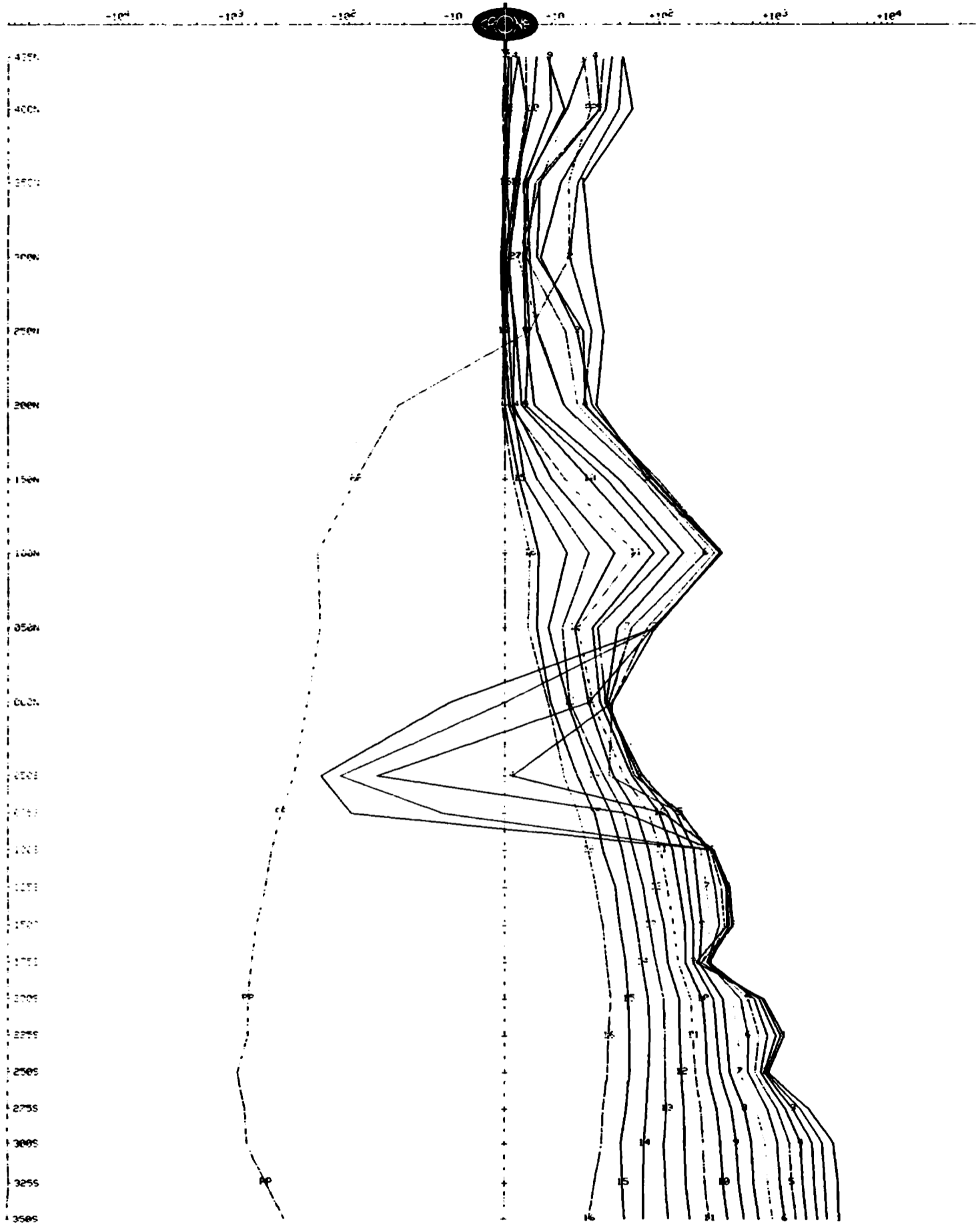
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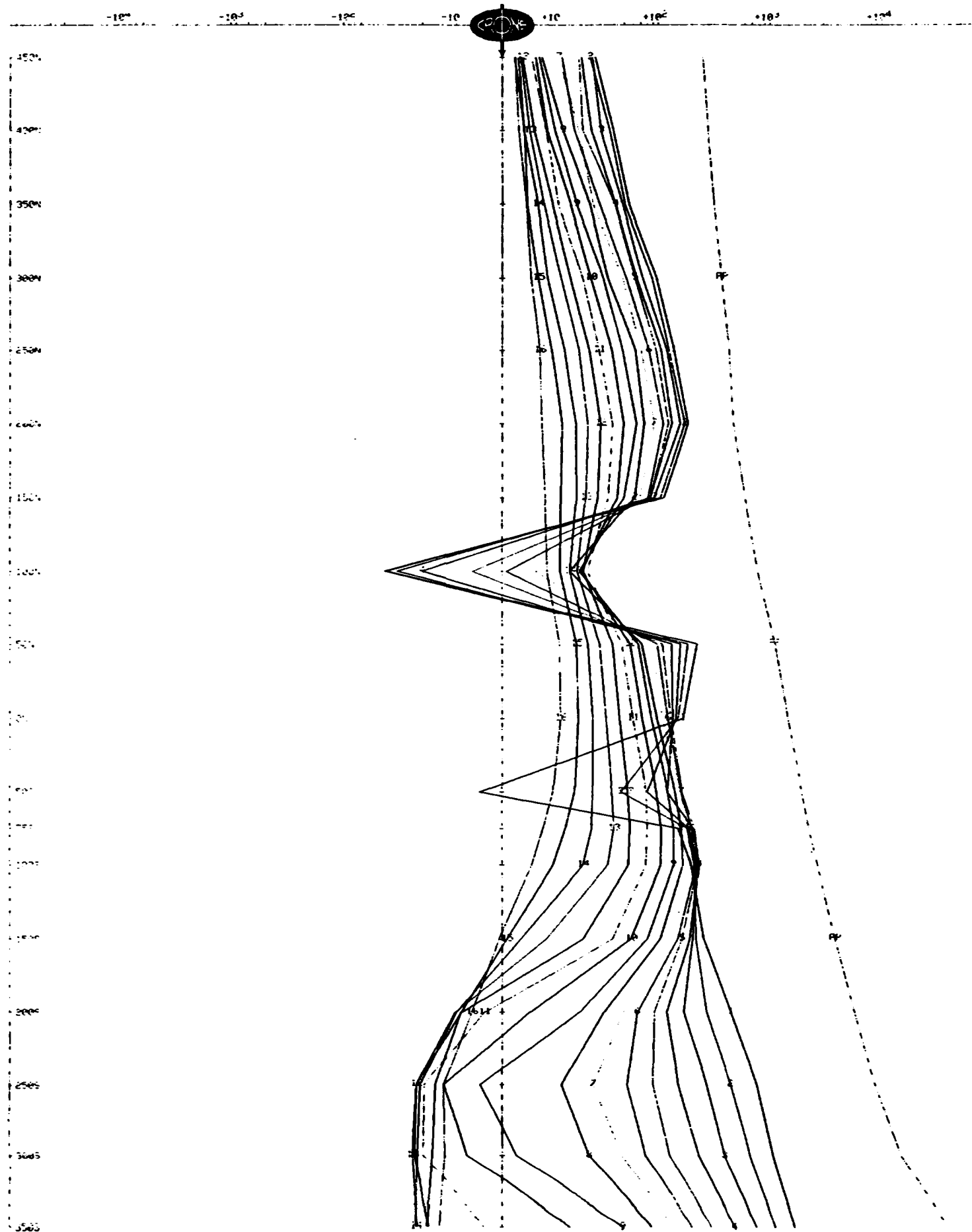
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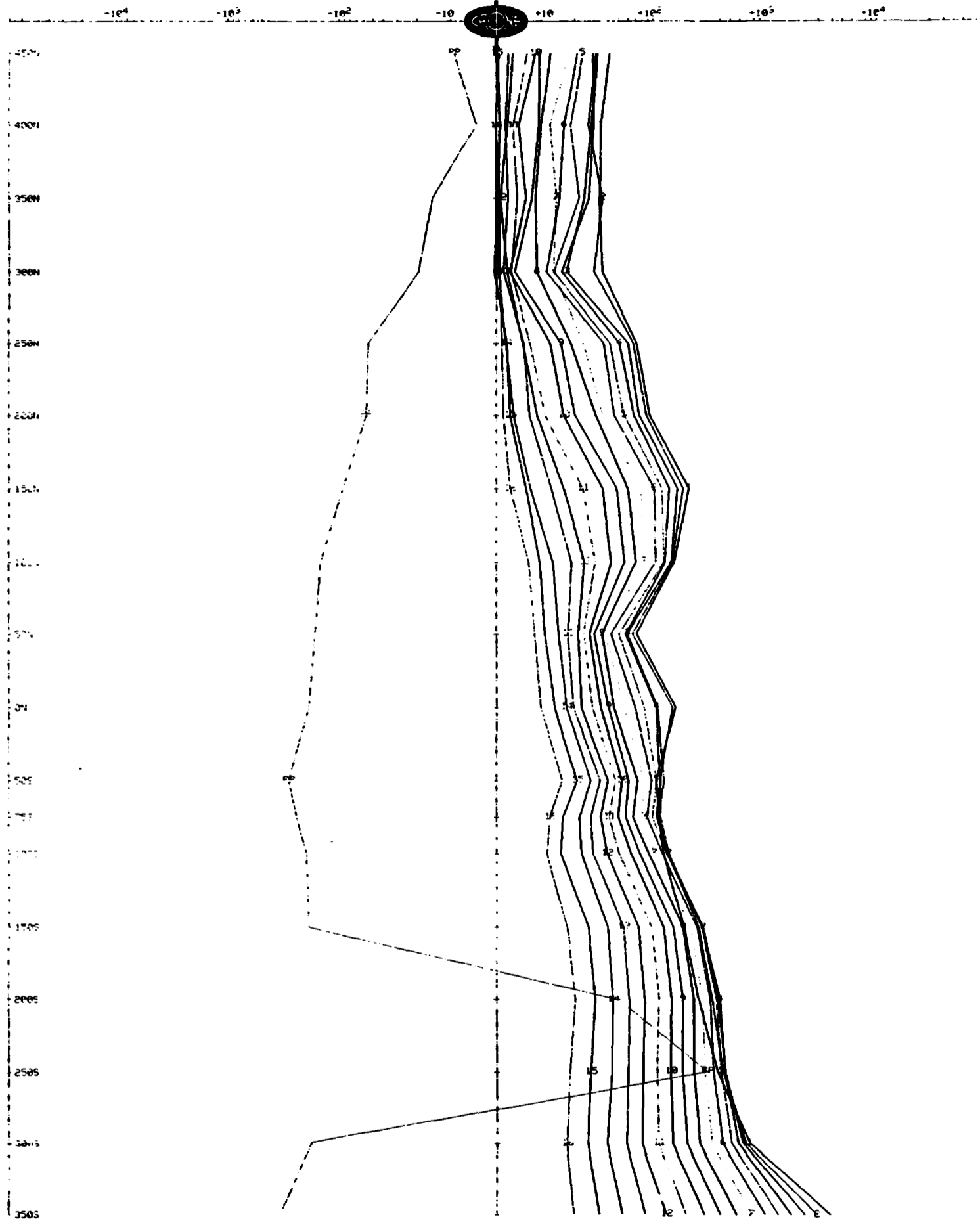
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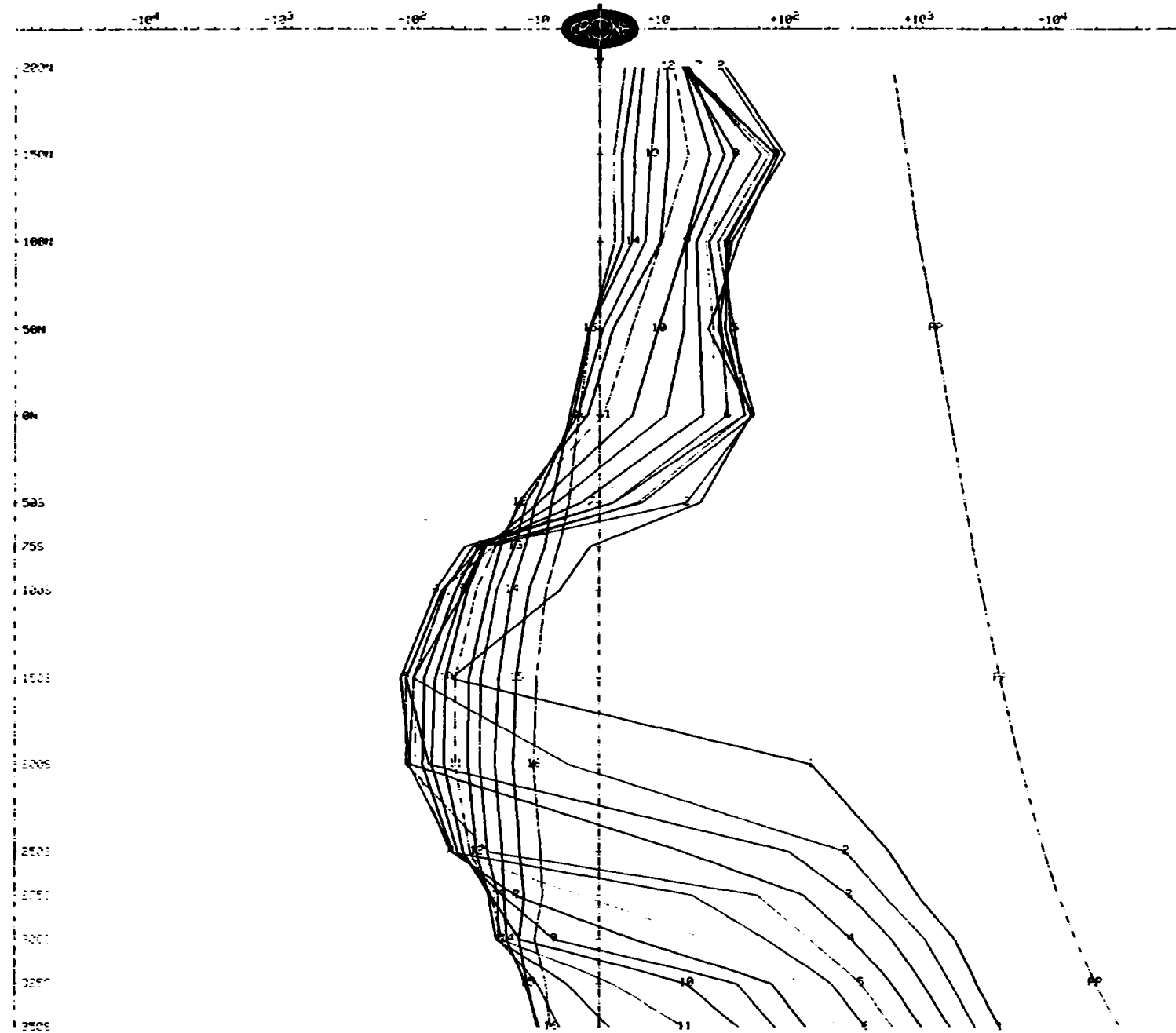
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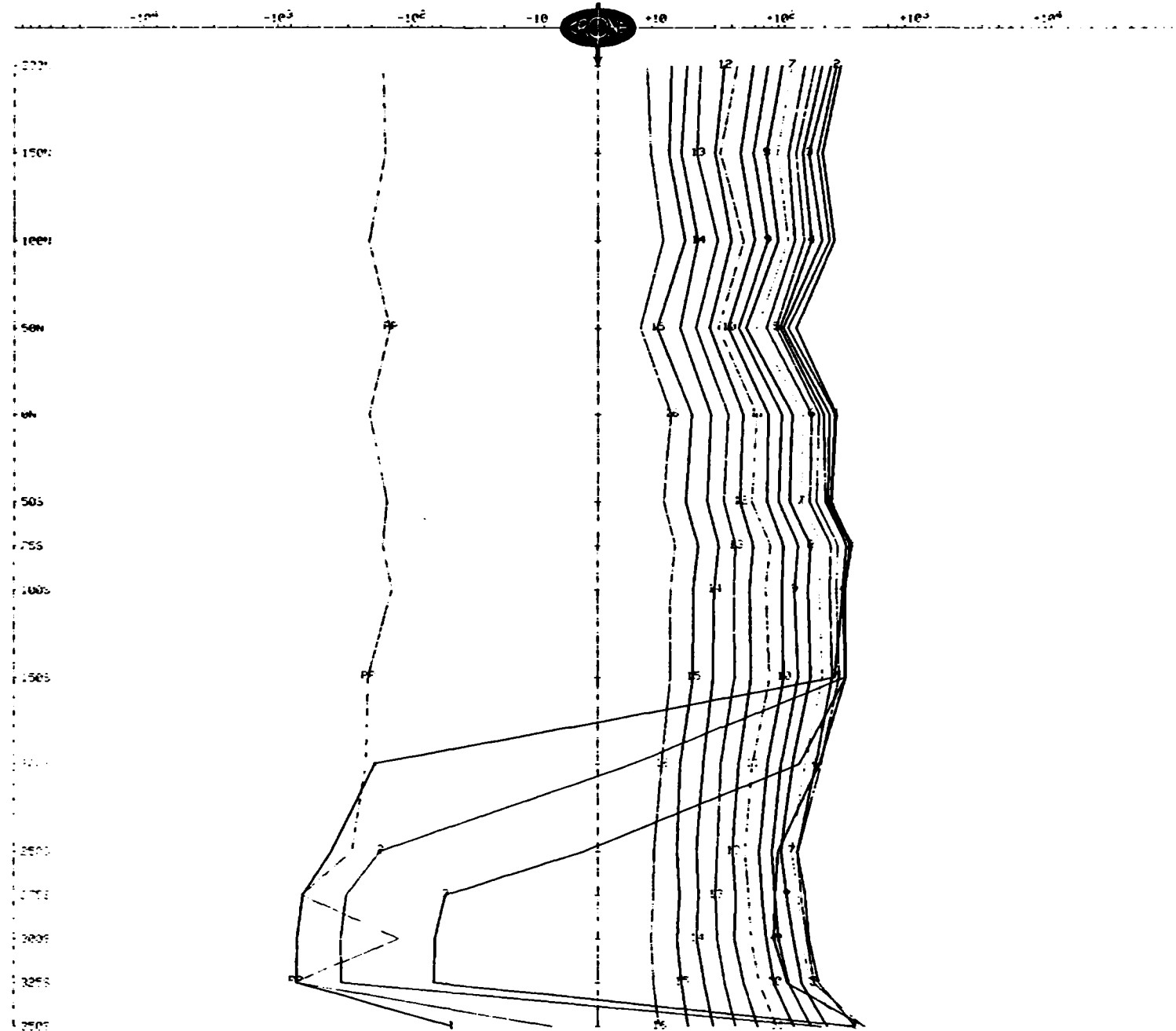
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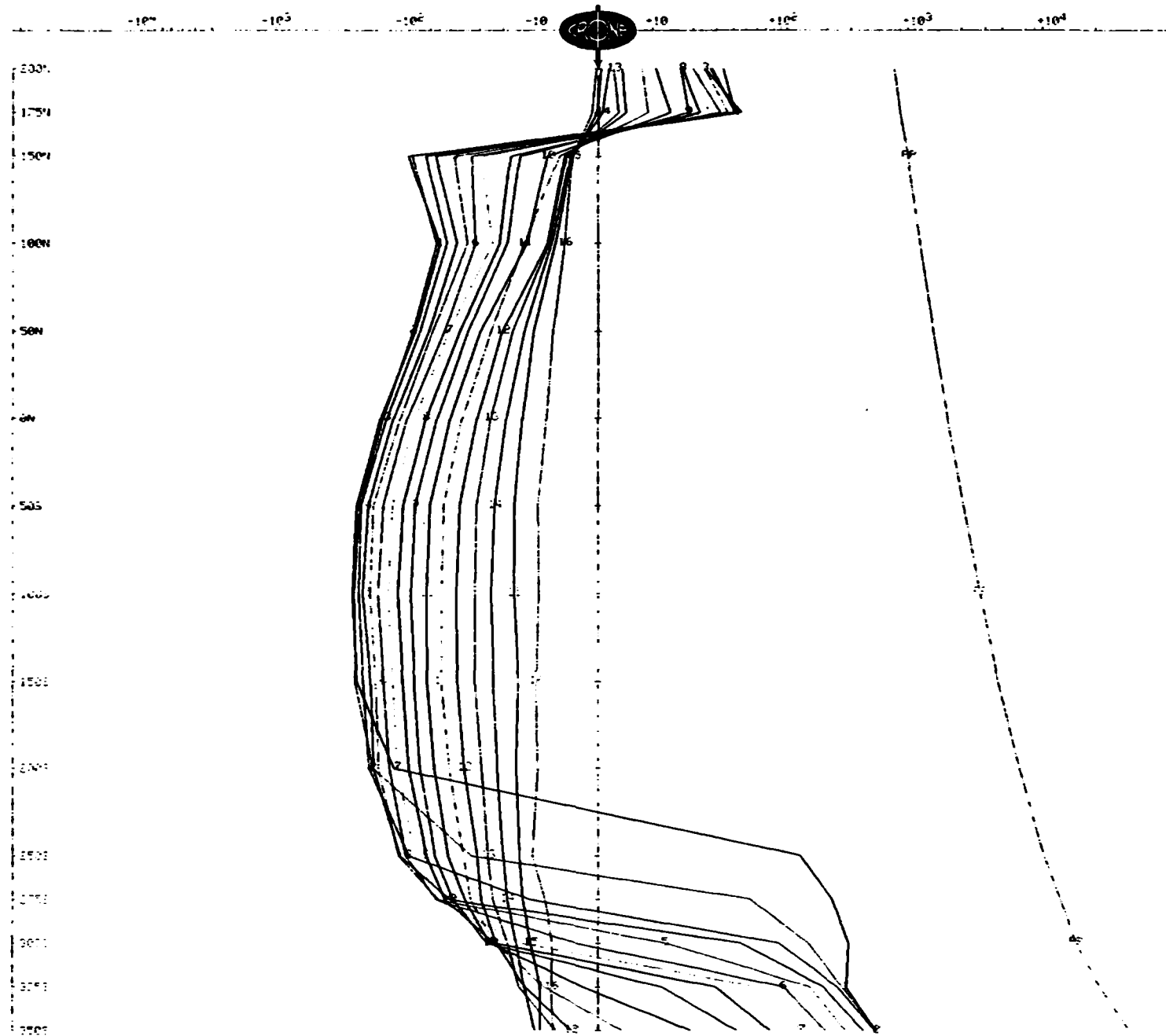
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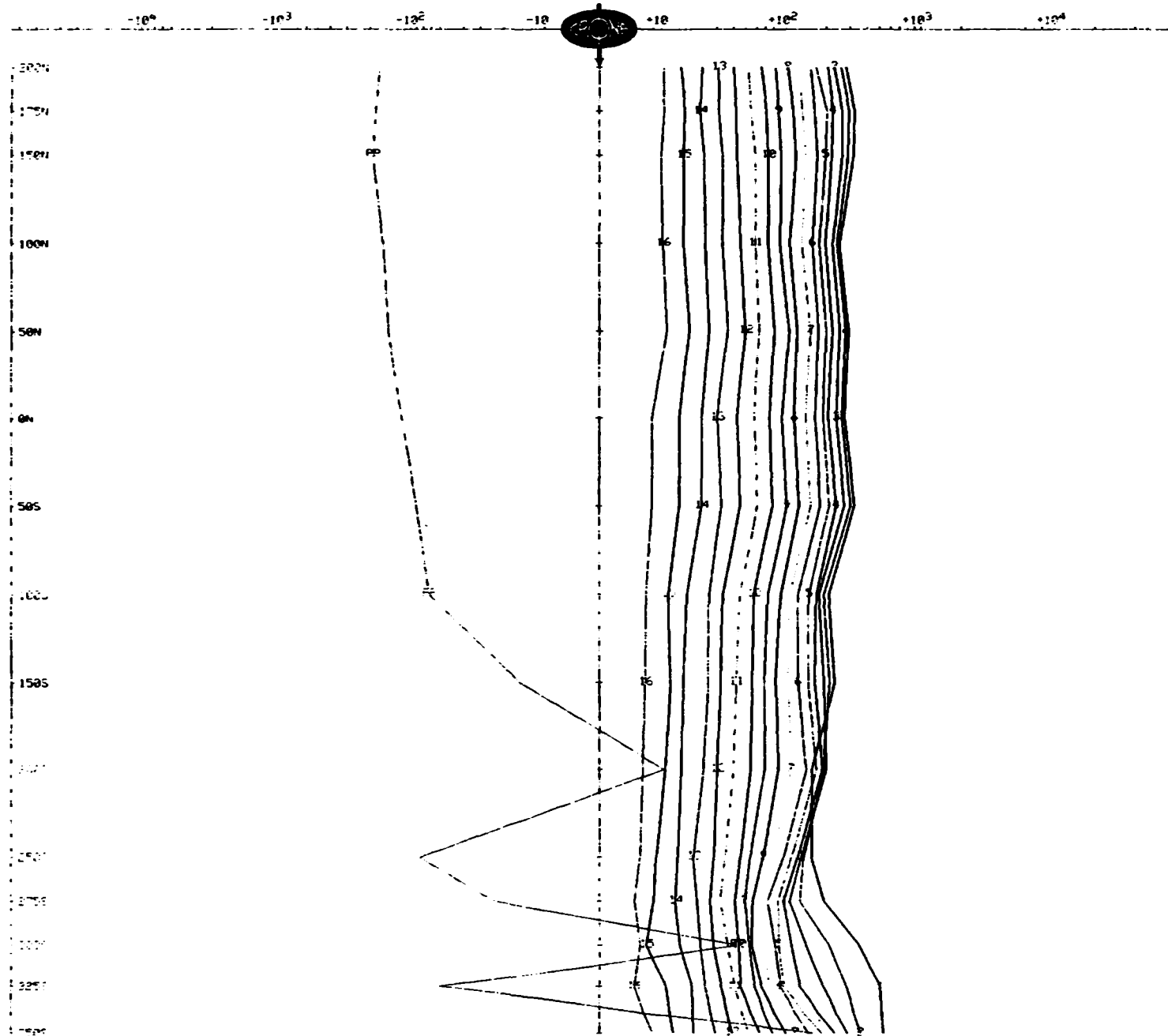
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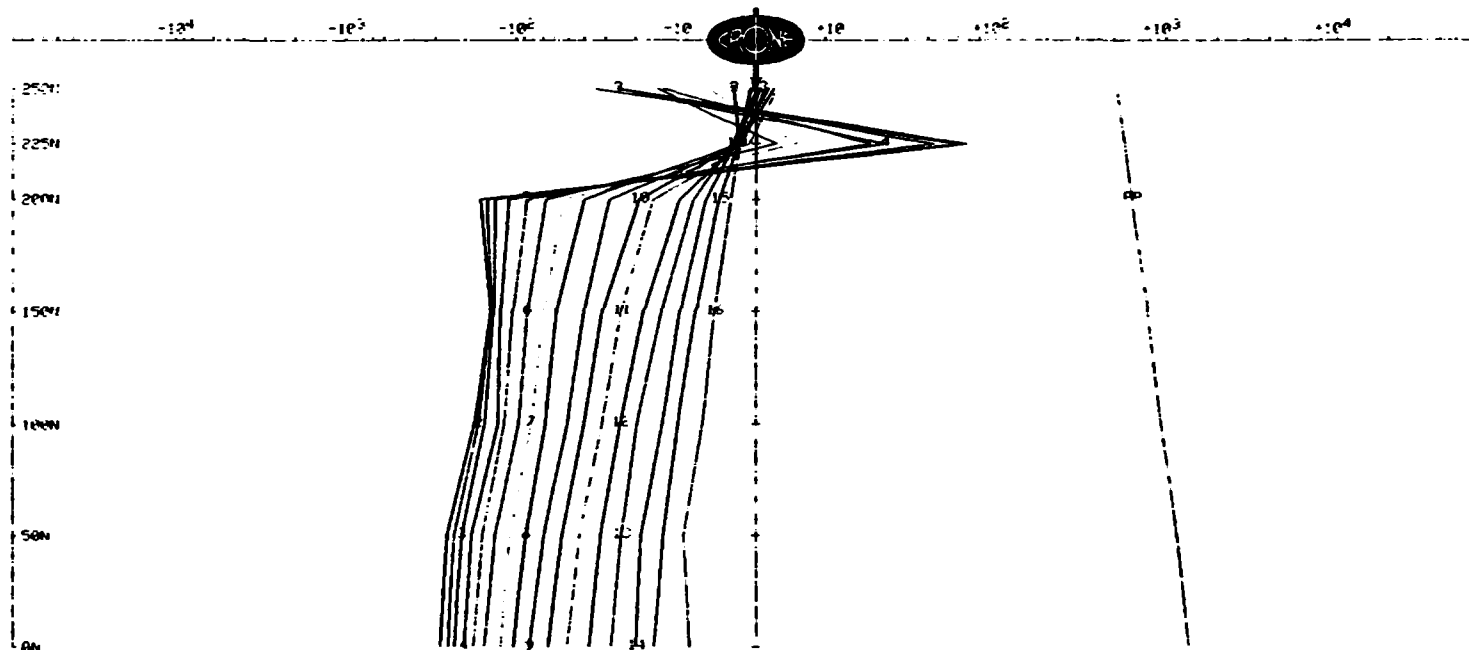


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VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

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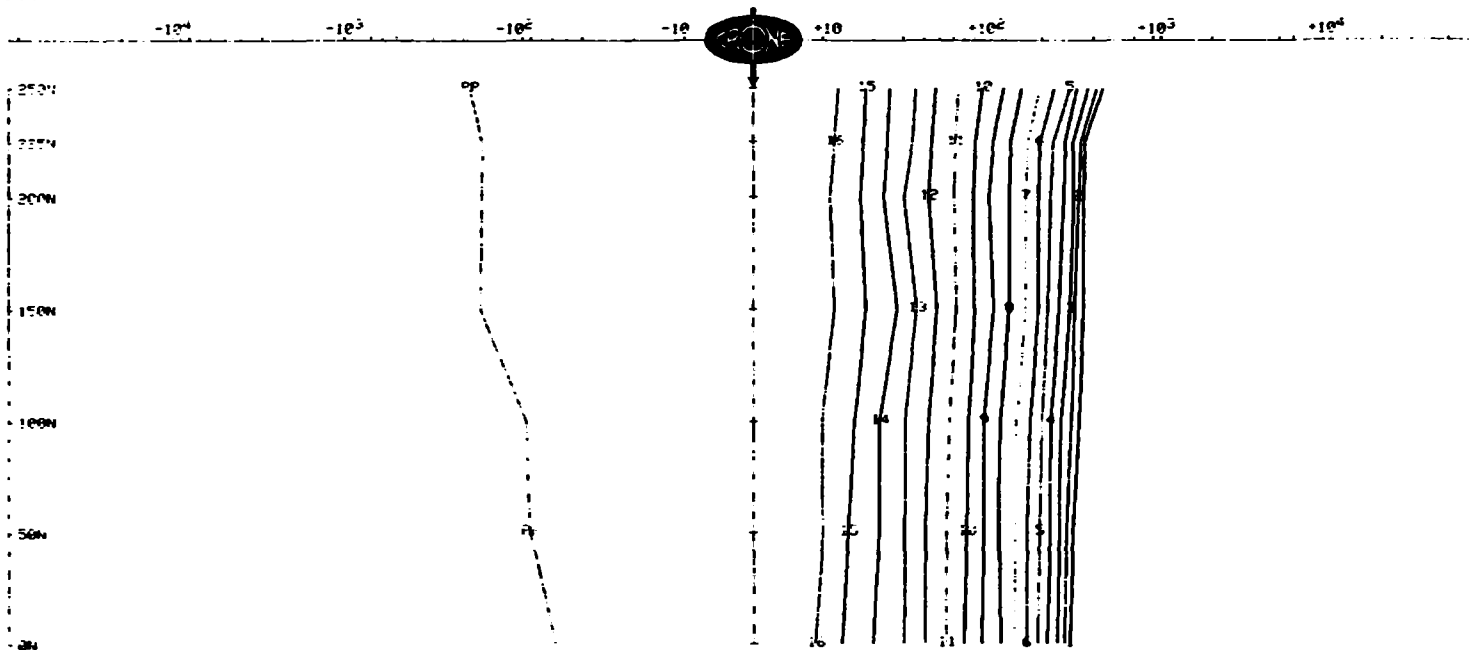
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Scale: 1:2500





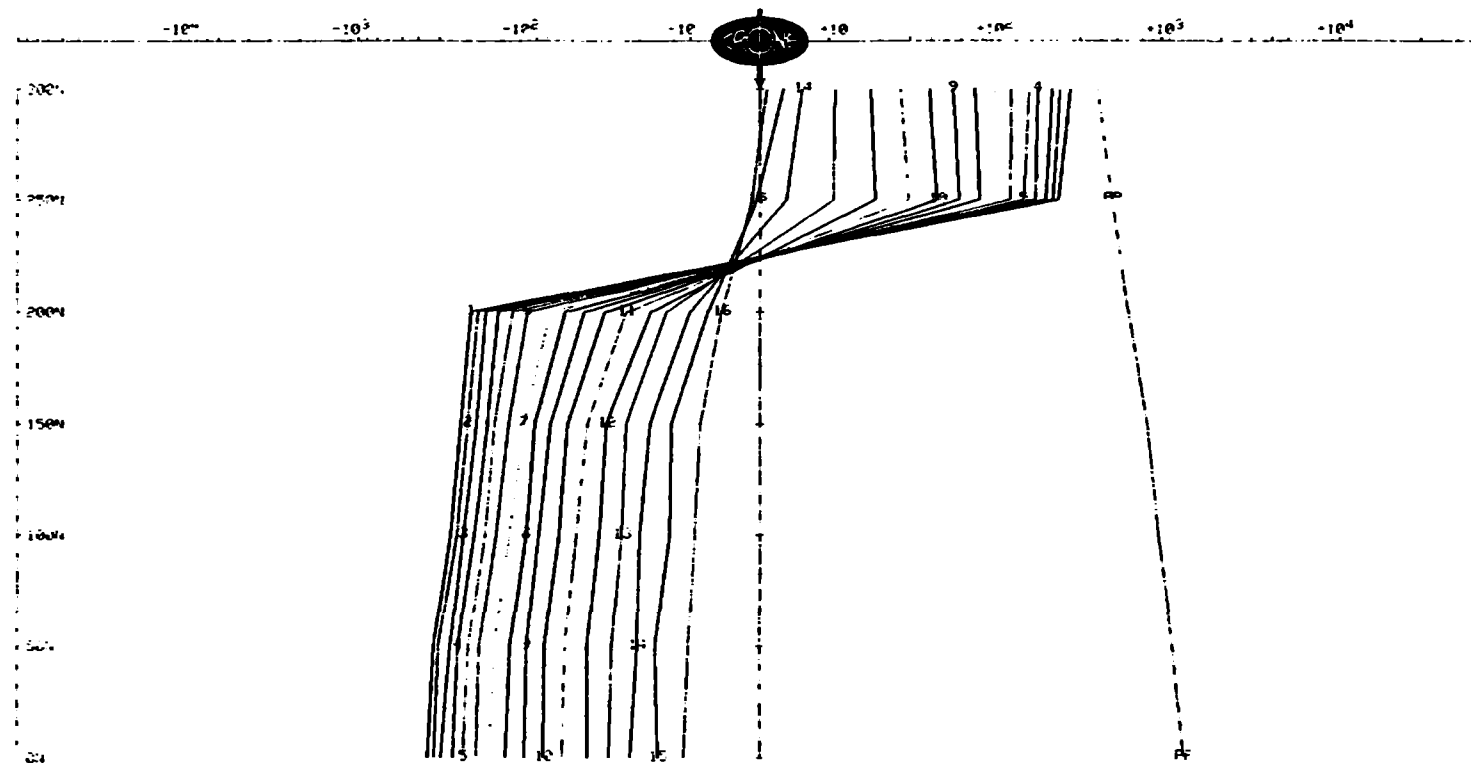
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VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

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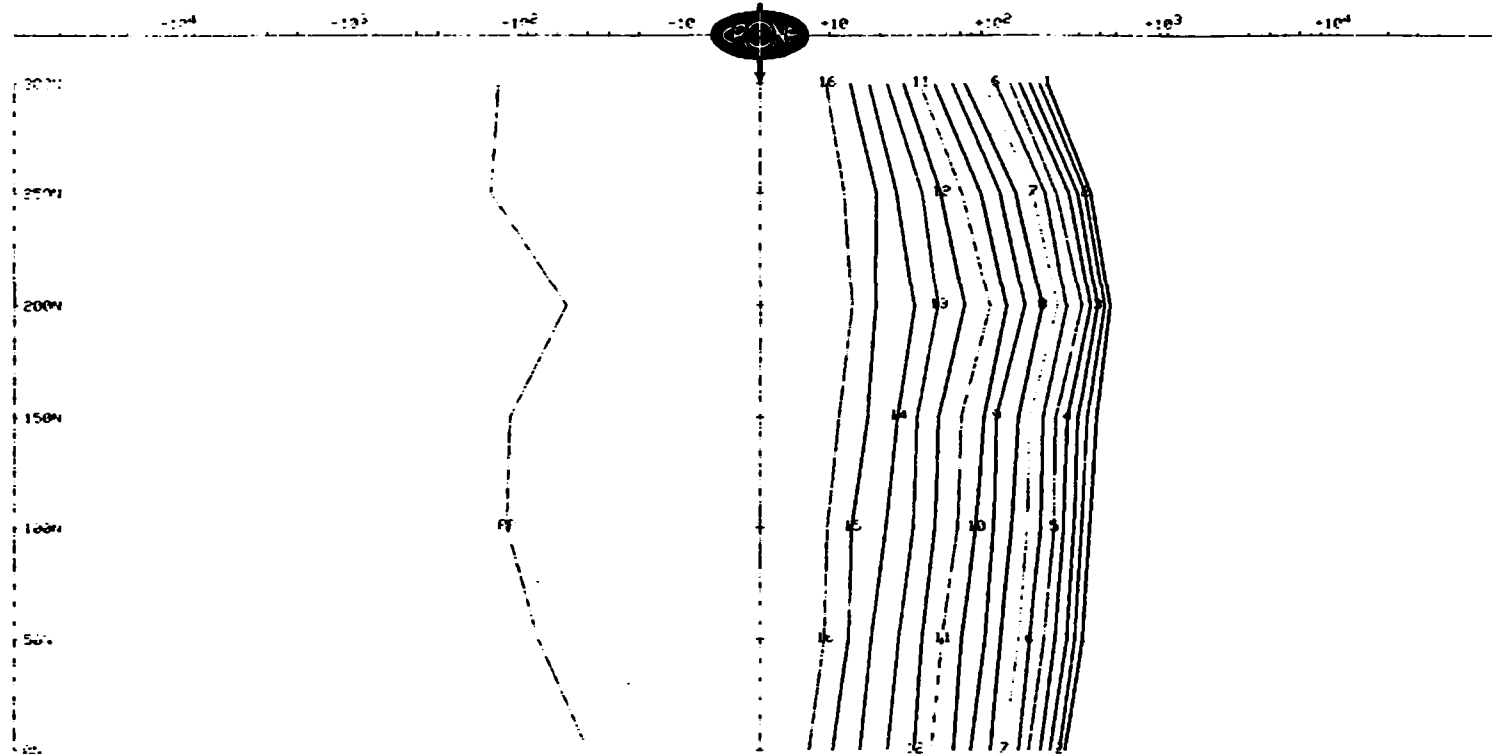
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Scale: 1:2500



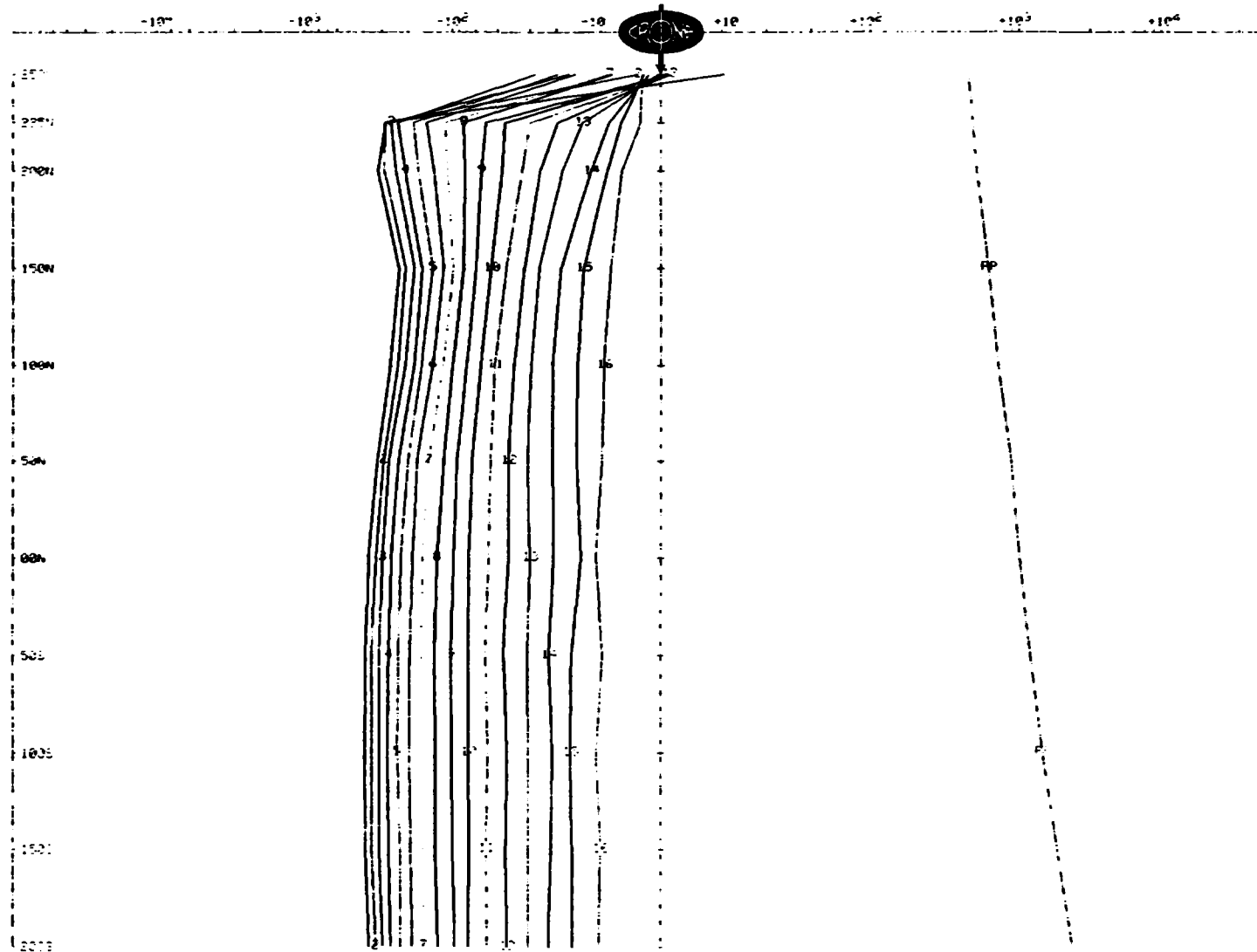
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VERTICAL COMPONENT dBz/dL nanoTesla/sec - 16 channels and PP

Scale: 1:2500



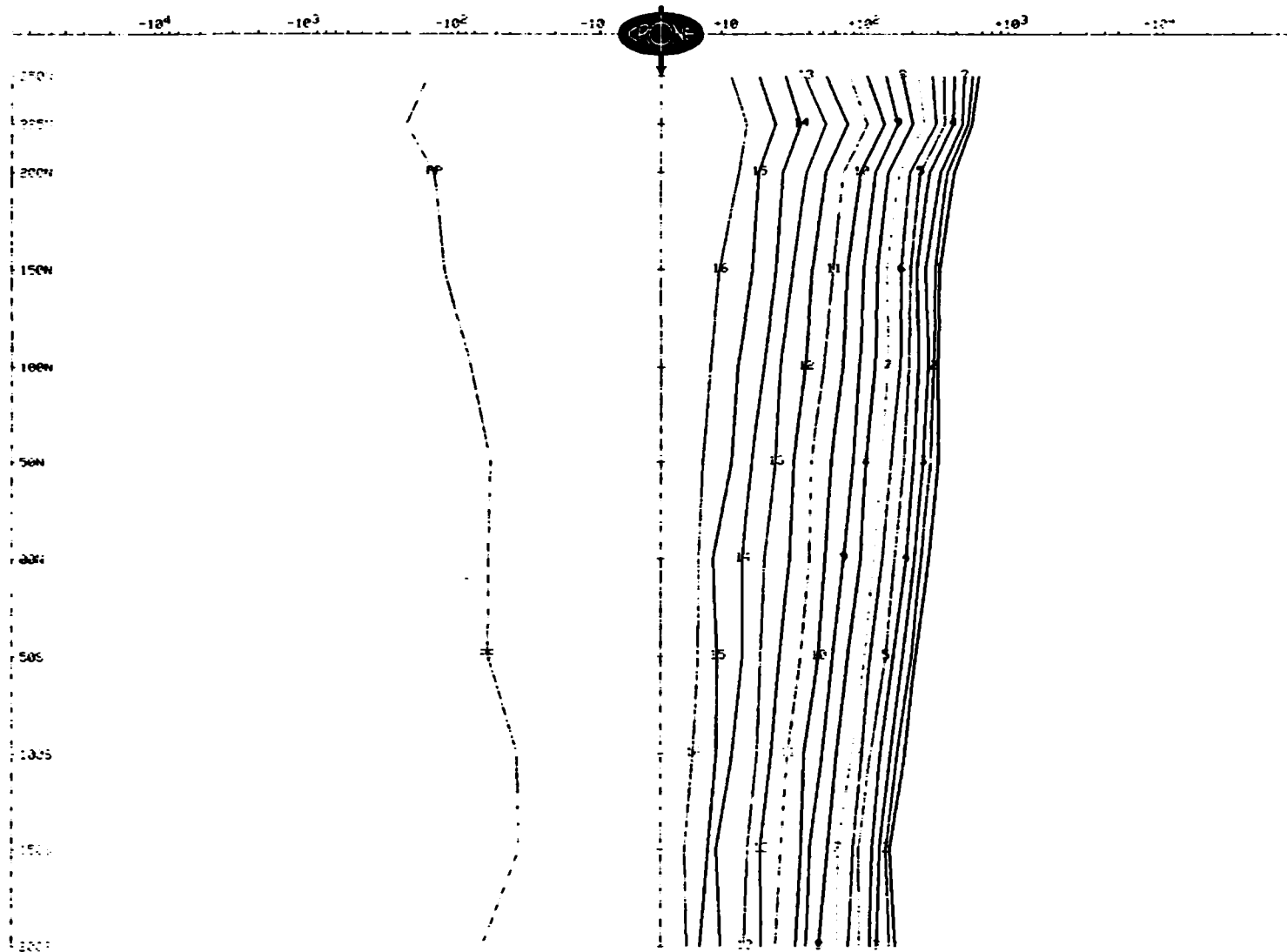
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL. D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SAASLAKE  
Date : Mar 13, 1995

Line : L300E  
Tx Loop : 4  
File name : L300ET4.PEM

IN-LINE HORIZONTAL COMPONENT  $\delta B_x/dt$  nanoTesla/sec - 16 channels and PP

Scale: 1:2500



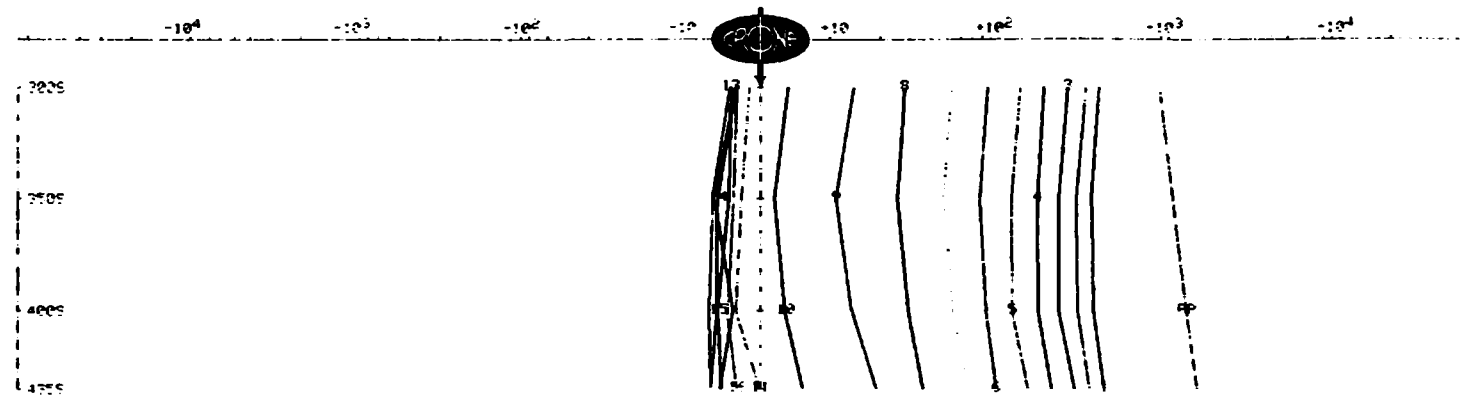
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1995

Line : L700W  
Tx Loop : 3  
File name : L700WT3.FEM

VERTICAL COMPONENT dBz/dt. nanoTesla/sec - 16 channels and PP

Scale: 1:2500



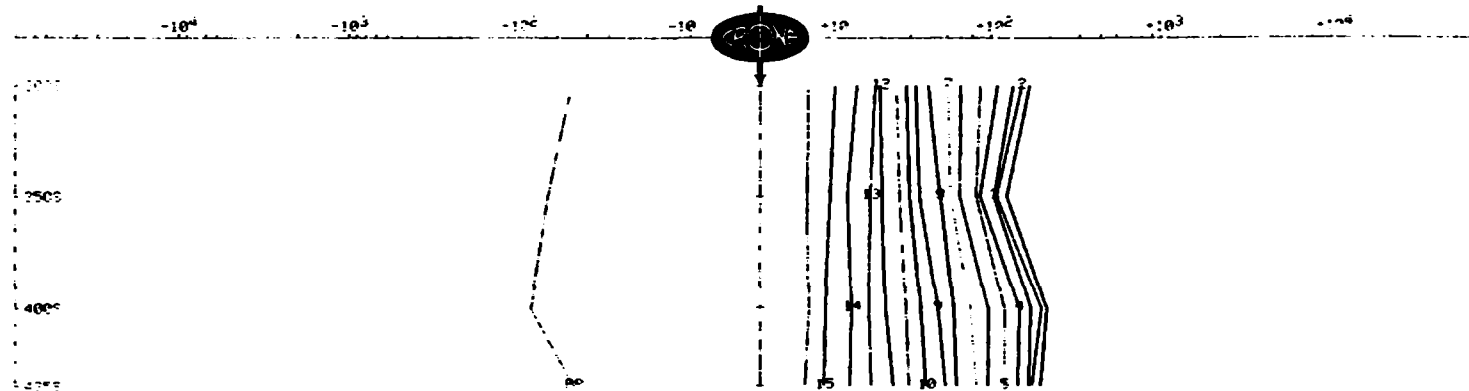
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE I/EE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1995

Line : L700W  
Tx Loop : 3  
File name : L700WT3.PEM

IN-LINE HORIZONTAL COMPONENT  $dBx/dt$  nanoTesla/sec - 16 channels and PP

Scale: 1:2500



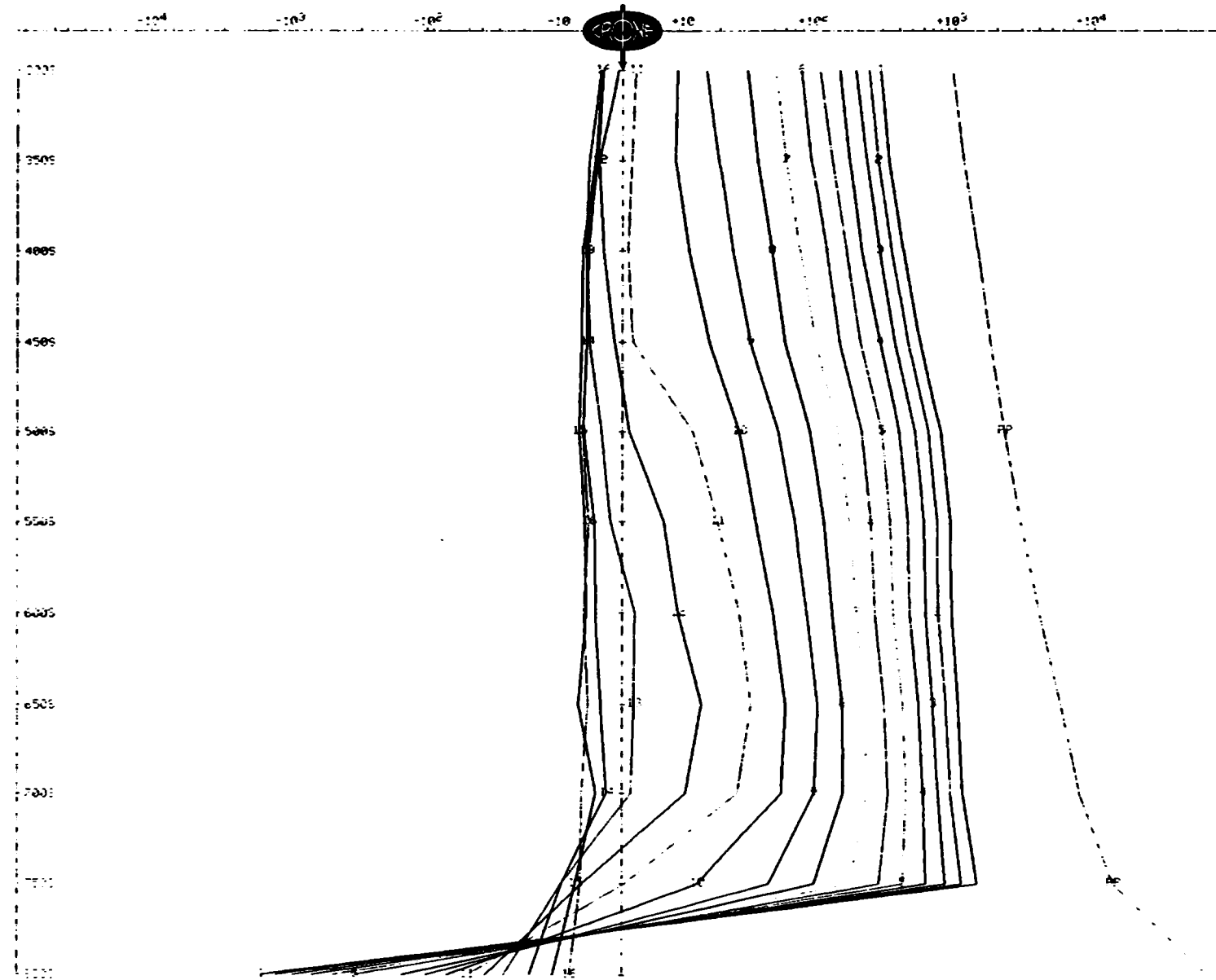
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1995

Line : L600W  
Tx Loop : 3  
File name : L600KT3.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



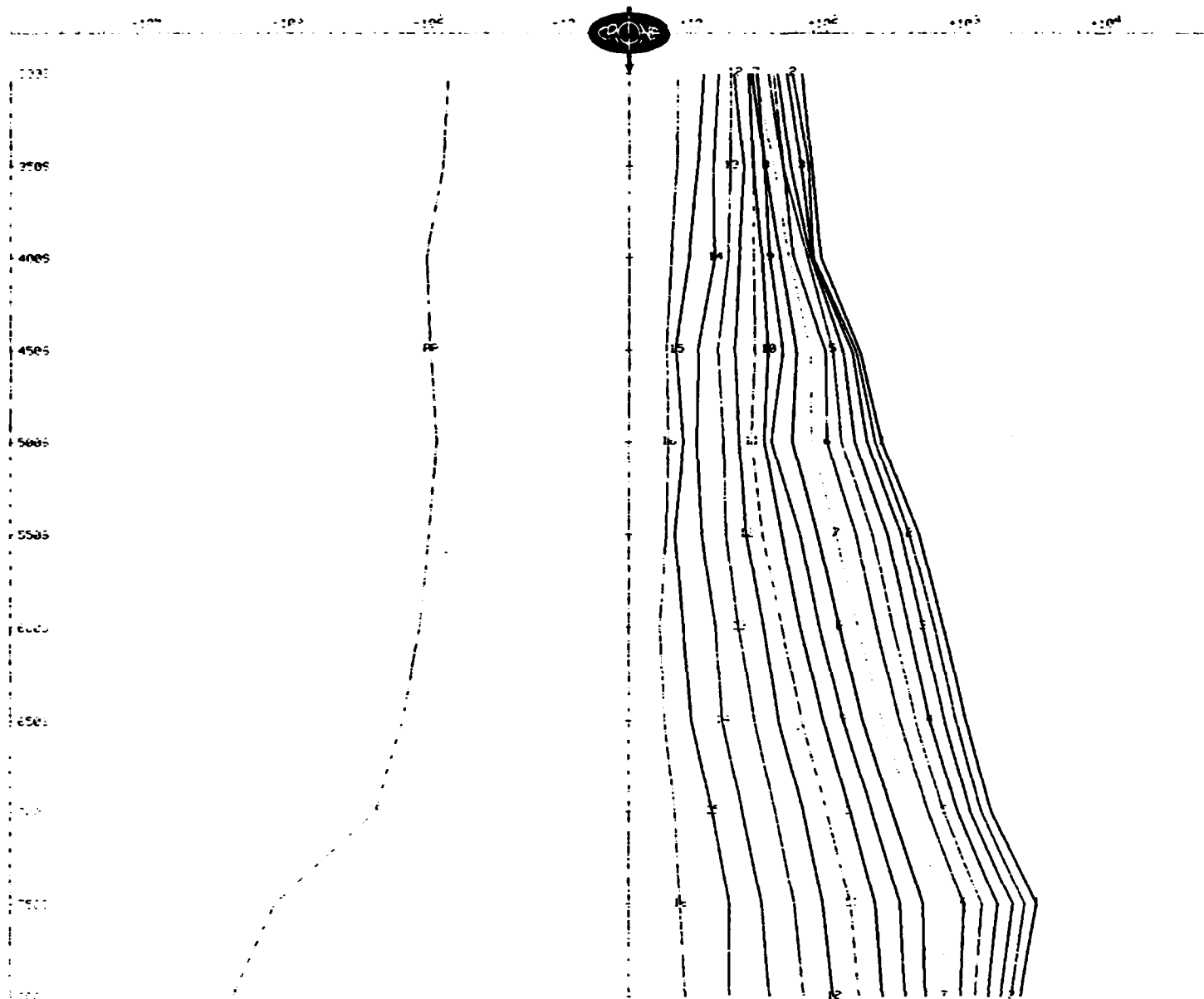
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1995

Line : L600W  
Tr Loop : 3  
File name : L600WT3.PEM

IN-LINE HORIZONTAL COMPONENT  $dBx/dt$  nanoTesla/sec - 16 channels and PP

Scale: 1:2500





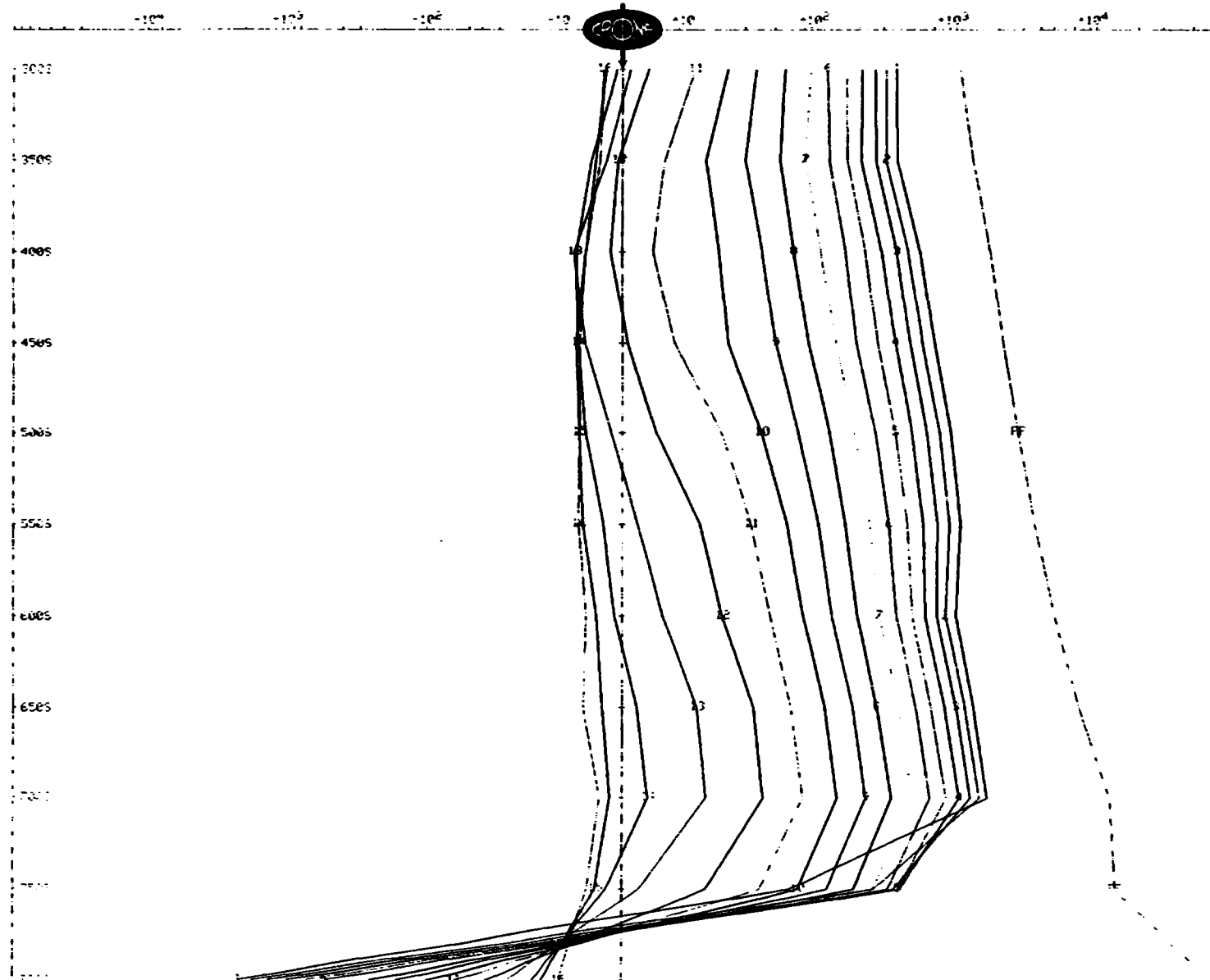
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL. D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1995

Line : L500W  
Tx Loop : 3  
File name : L500WT3.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



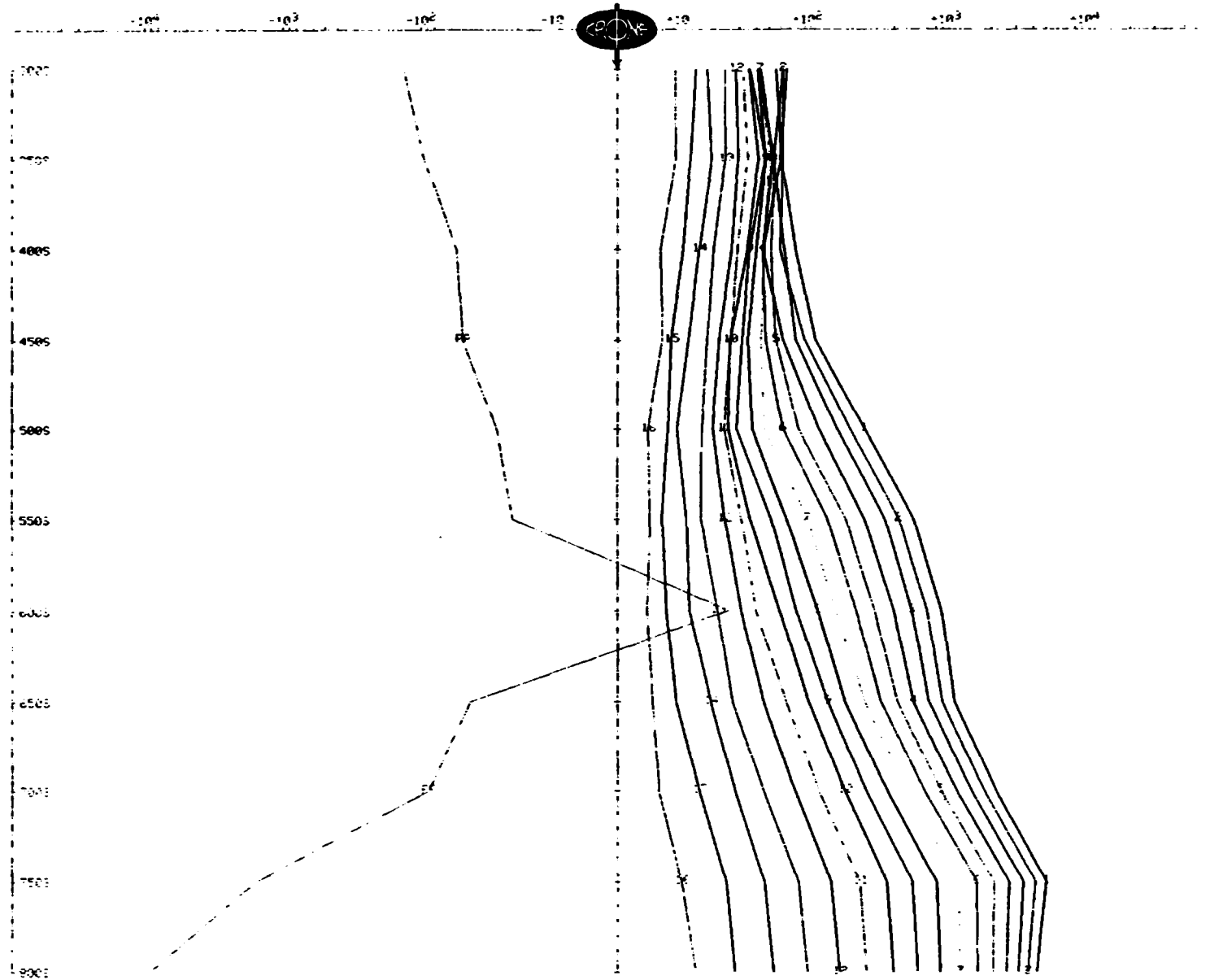
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1995

Line : L500W  
Tx Loop : 3  
File name : L500WT3.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



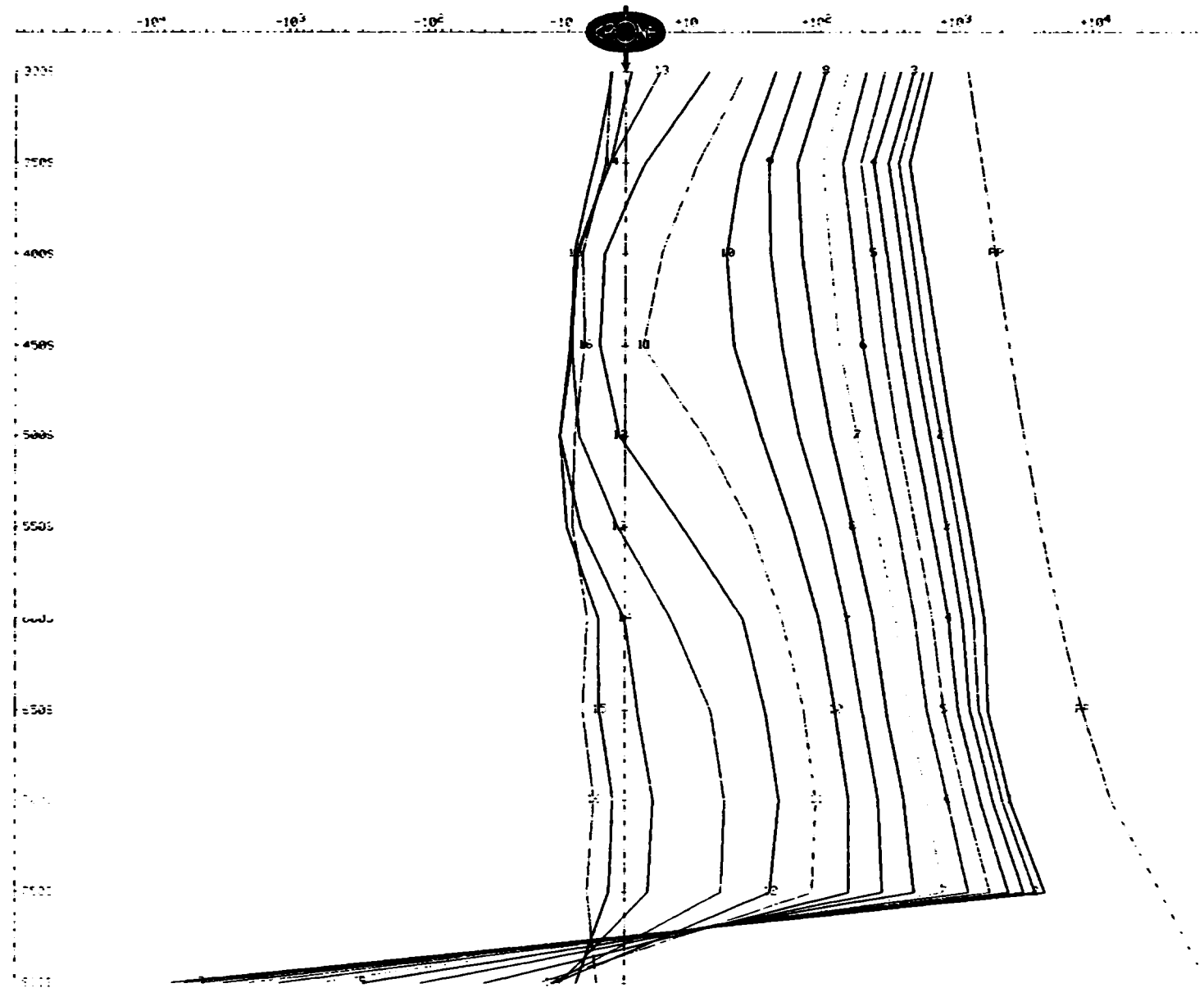
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1995

Line : L400W  
Tx Loop : 3  
File name : L400KT3.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



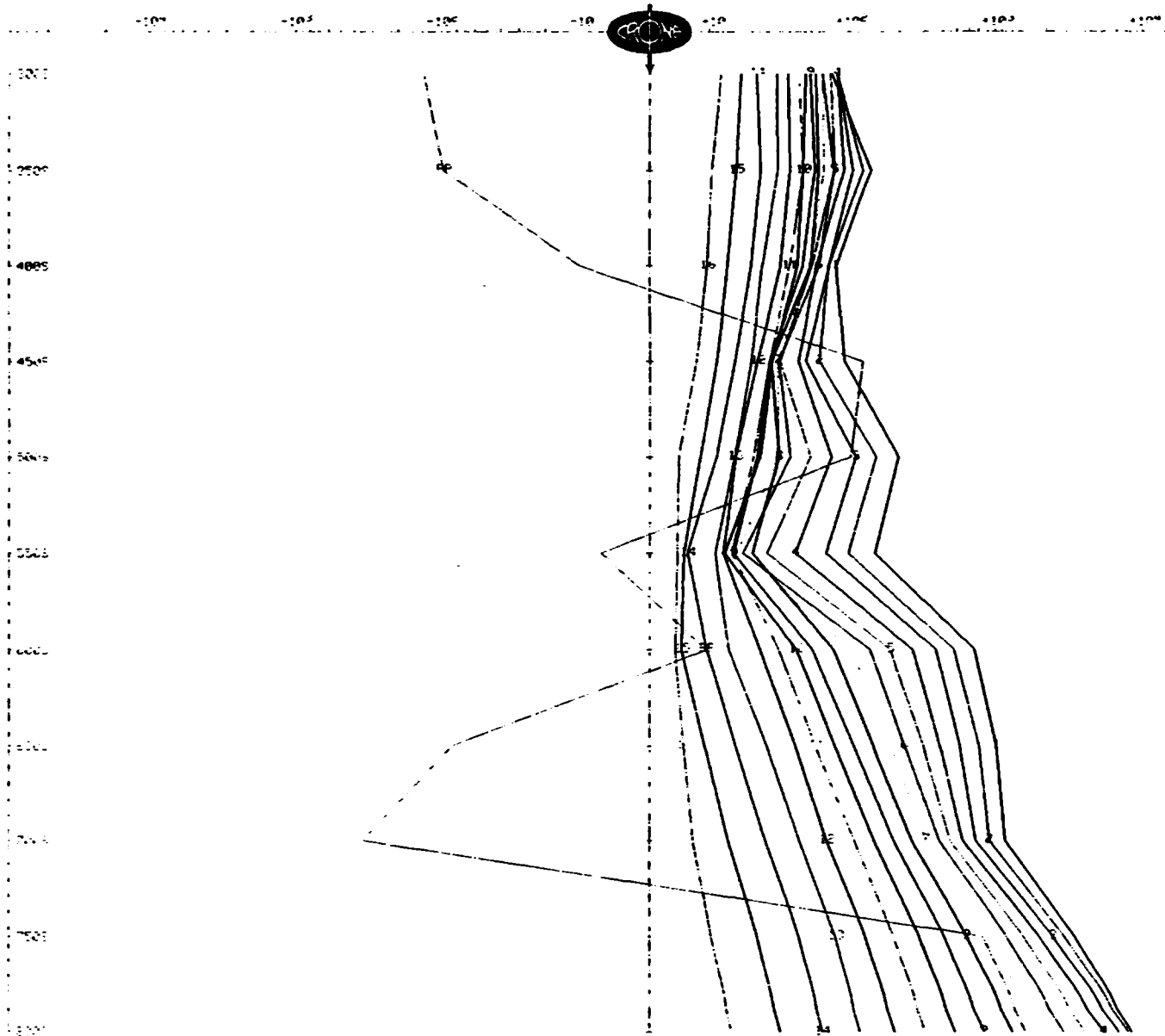
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL. D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1997

Line : L400W  
Tx loop : 3  
File name : L400WT3.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



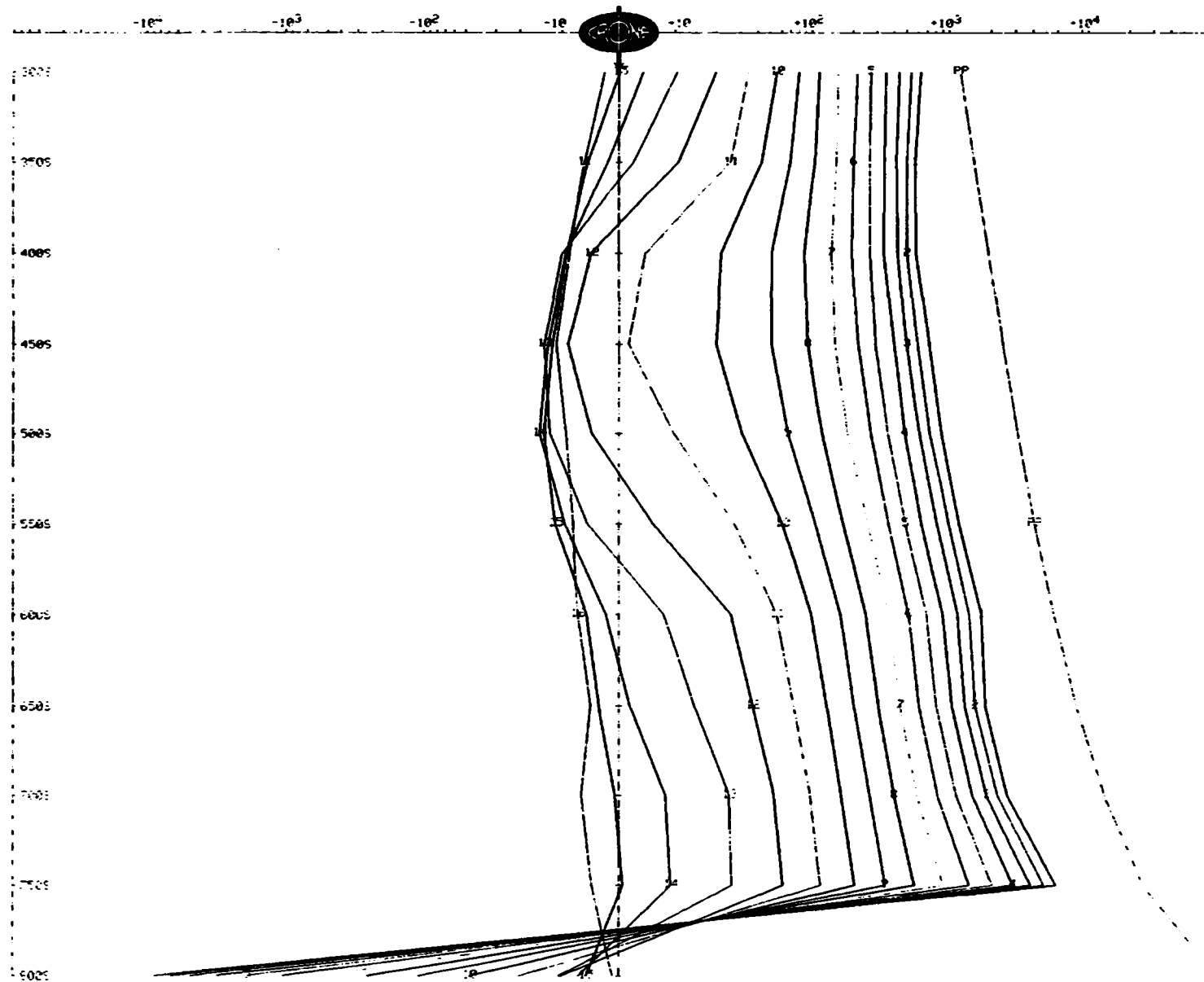
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1995

Line : L300W  
Tx Loop : 3  
File name : L300WT3.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



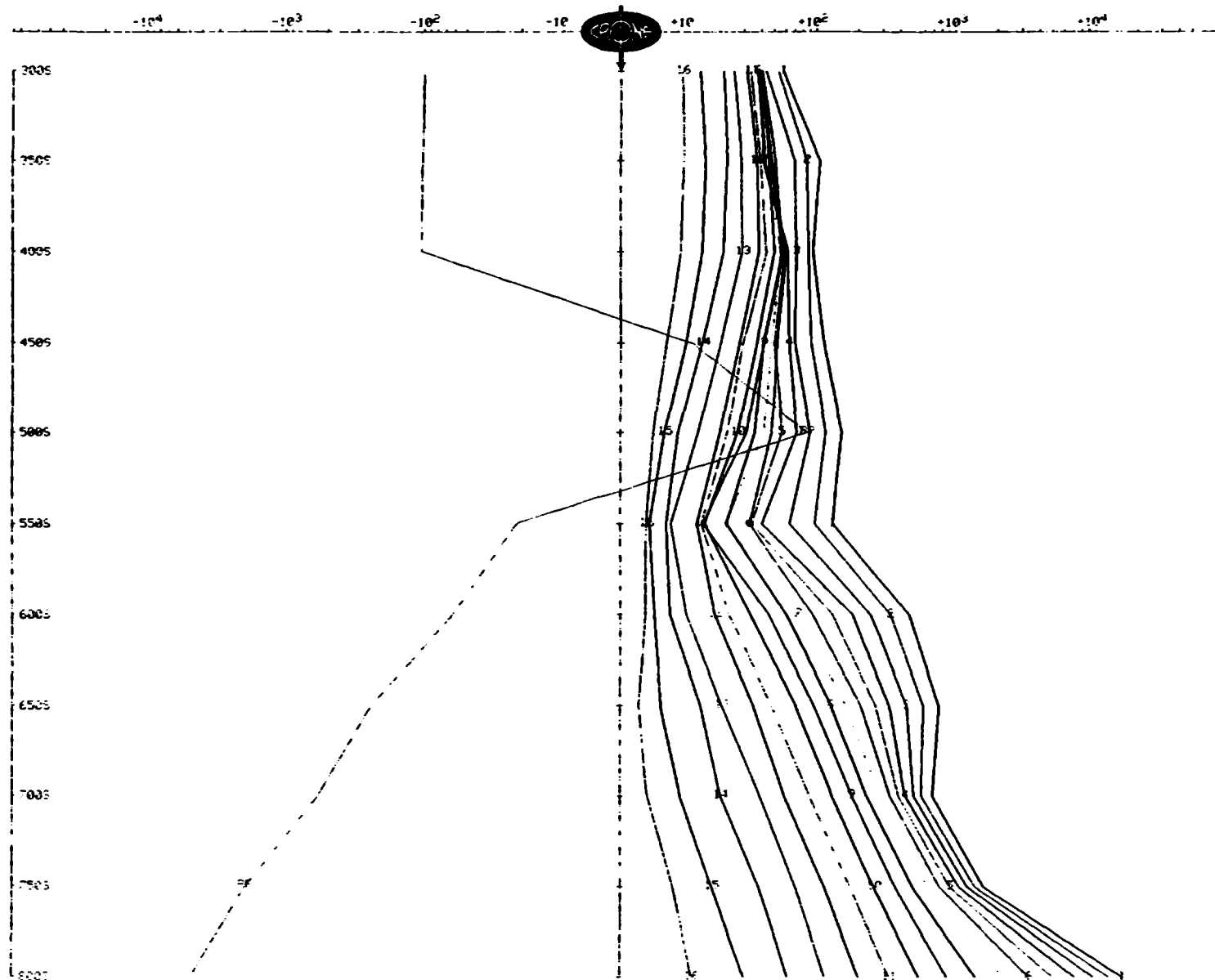
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL. D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1995

Line : L300W  
Tx Loop : 3  
File name : L300WT3.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



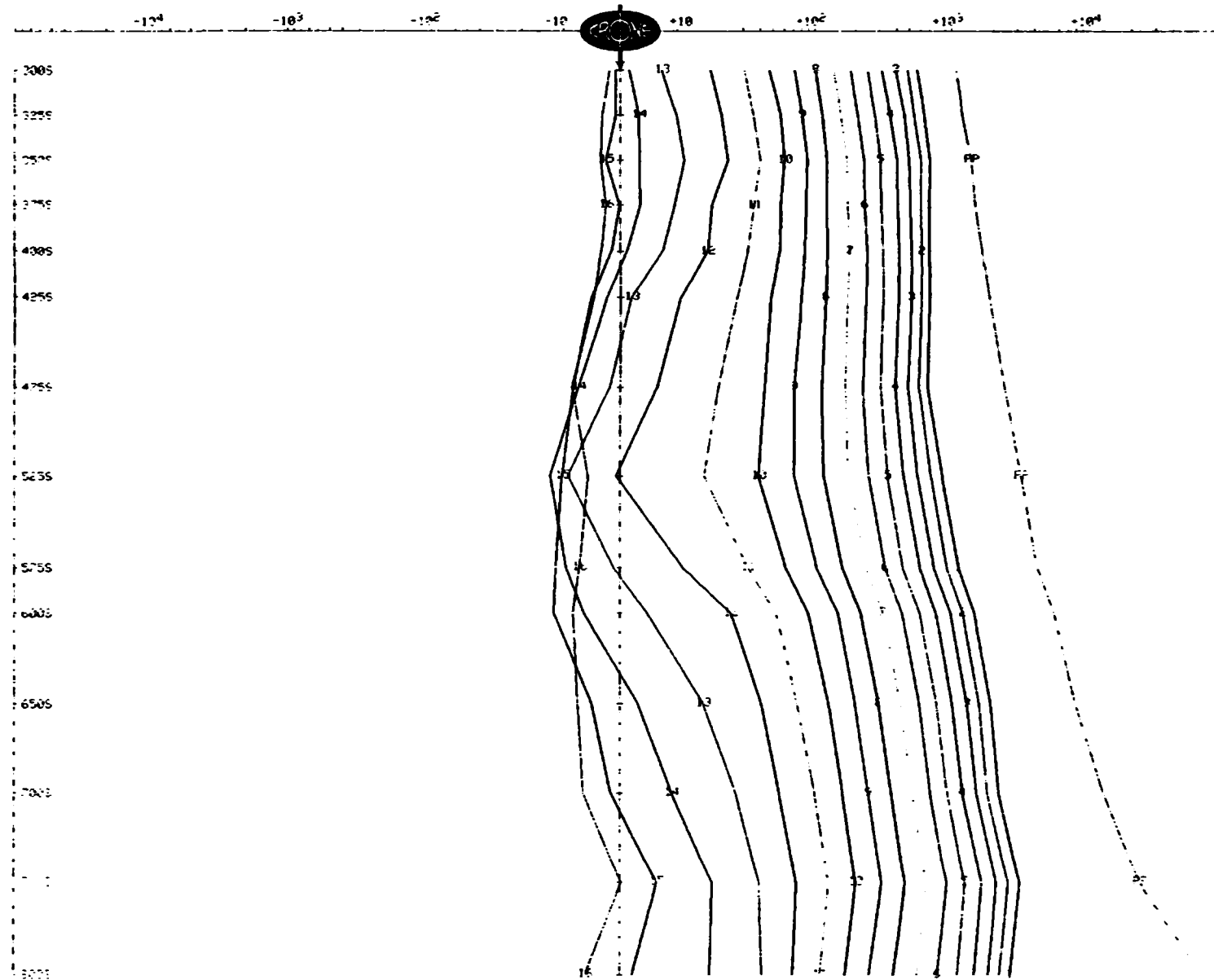
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1995

Line : L200W  
Tx Loop : 3  
File name : L200WT3.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



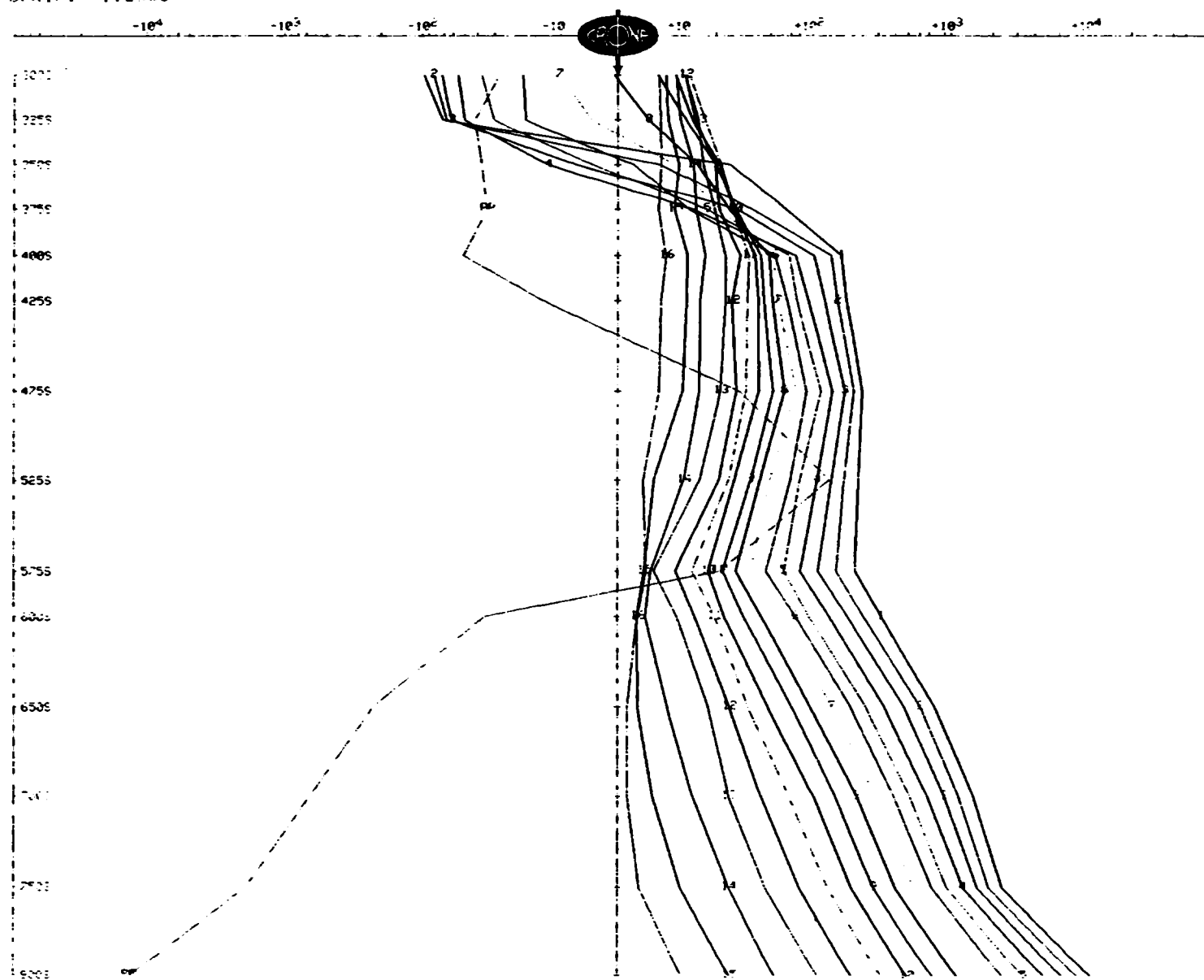
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 12, 1995

Line : L200W  
Tx Loop : 3  
File name : L200WT3.PFM

IN-LINE HORIZONTAL COMPONENT  $dBx/dt$  nanoTesla/sec - 16 channels and PP

Scale: 1:2500





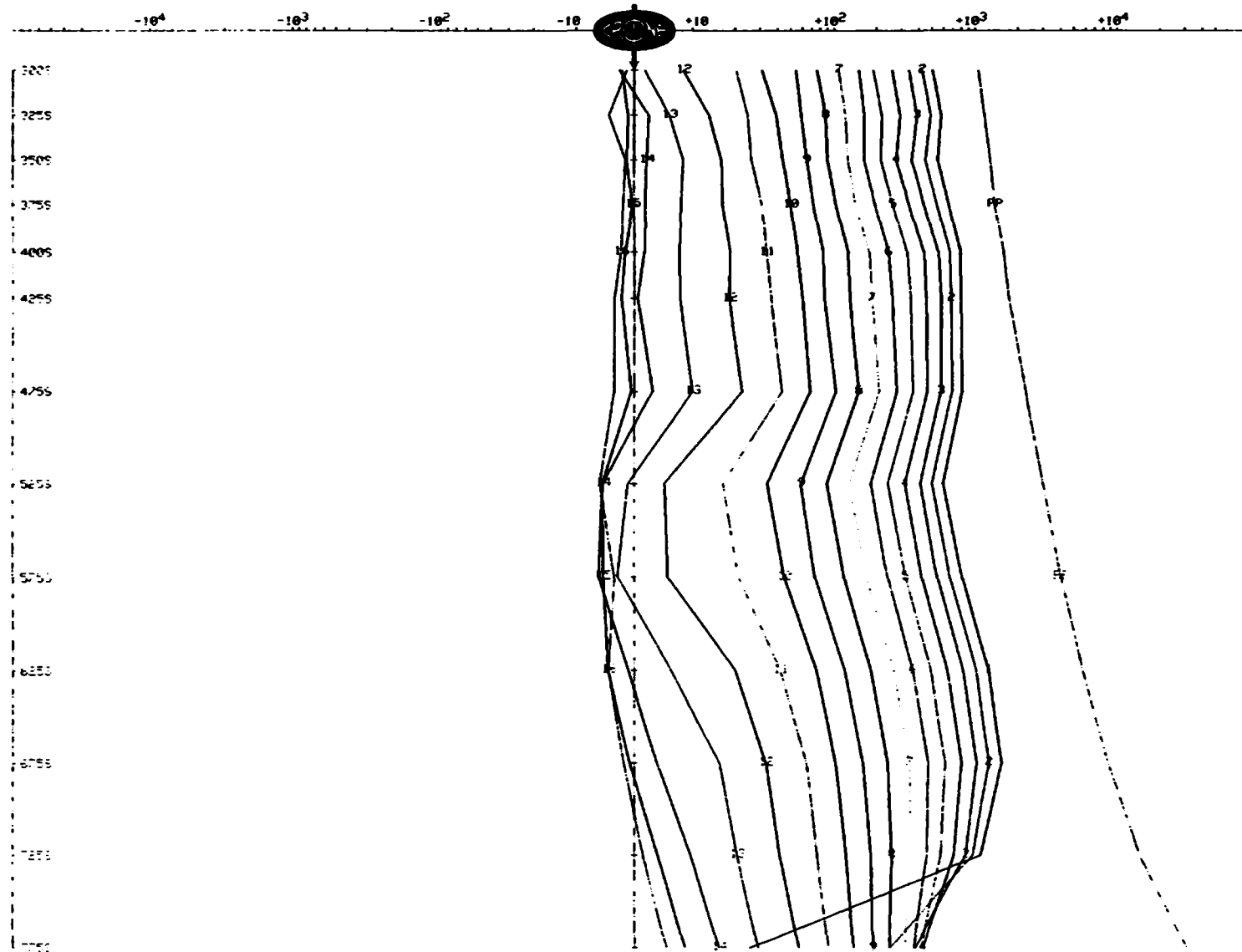
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 12, 1995

Line : 100W  
Tx Loop : 3  
File name : L100WT3.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



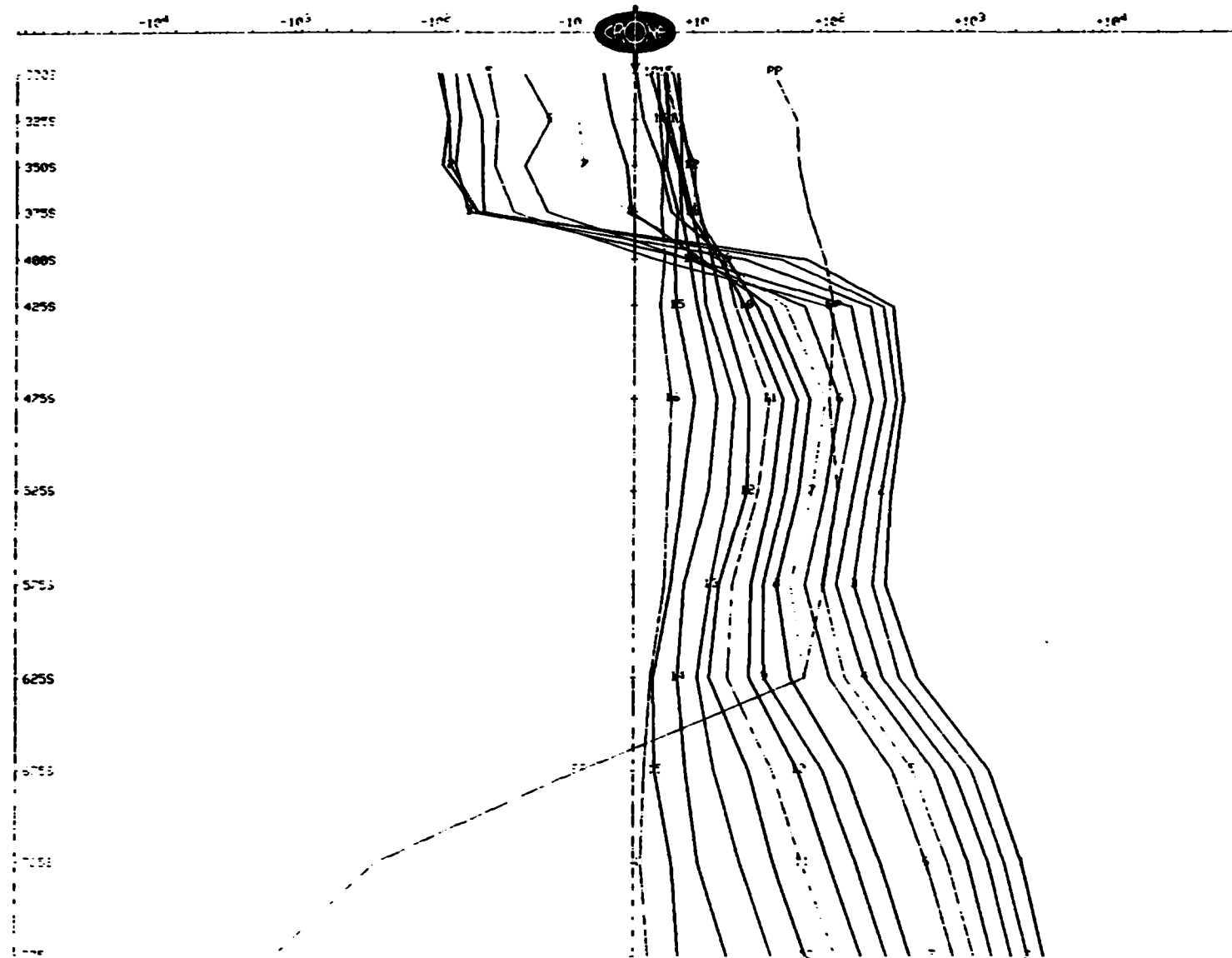
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 12, 1995

Line : 100W  
Tx Loop : 3  
File name : L100WT3.PEM

IN-LINE HORIZONTAL COMPONENT  $dBx/dt$  nanotesla/sec - 16 channels and PP

Scale: 1:2500



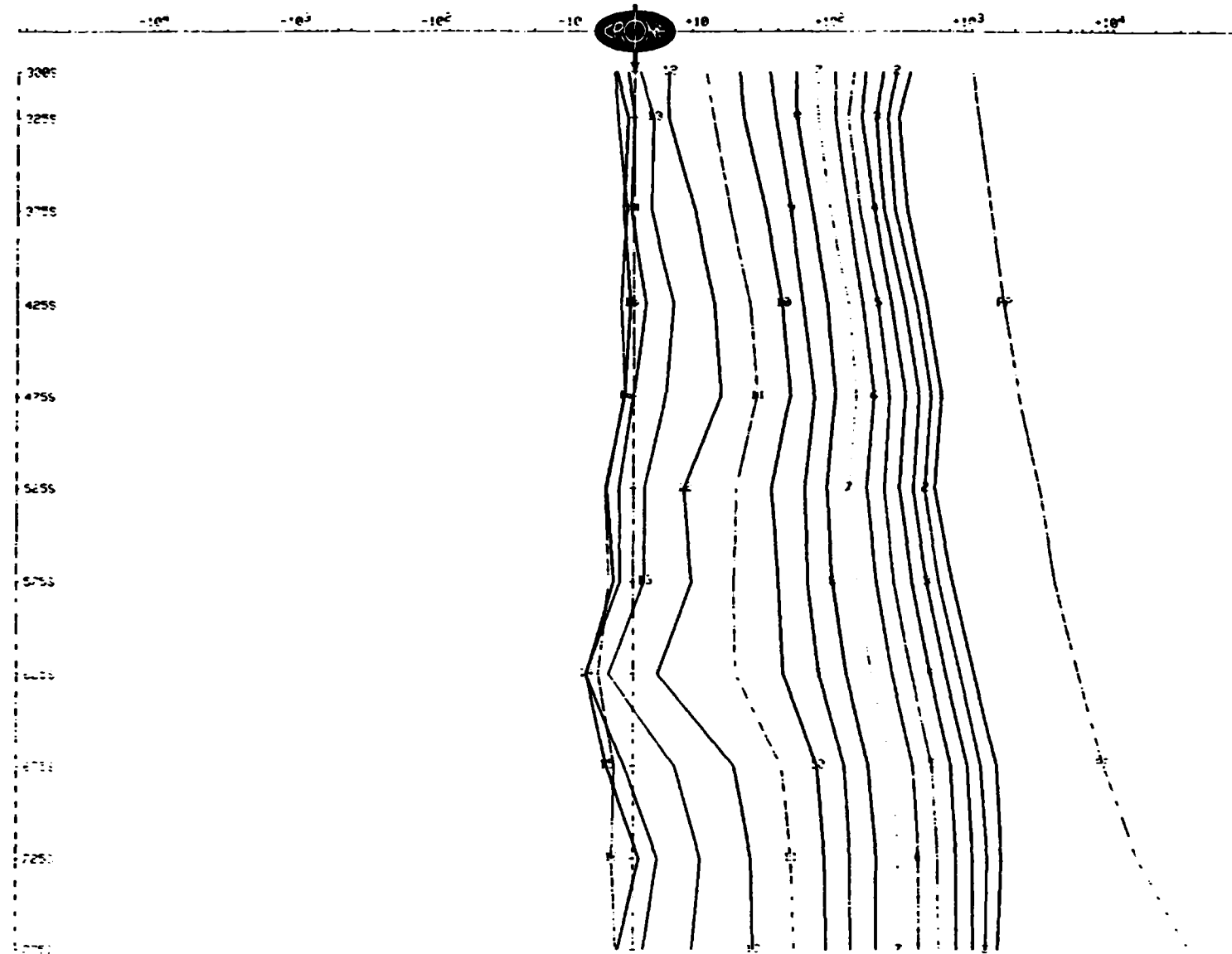
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 12, 1995

Line : 0E  
Tx Loop : 3  
File name : 10ET3.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



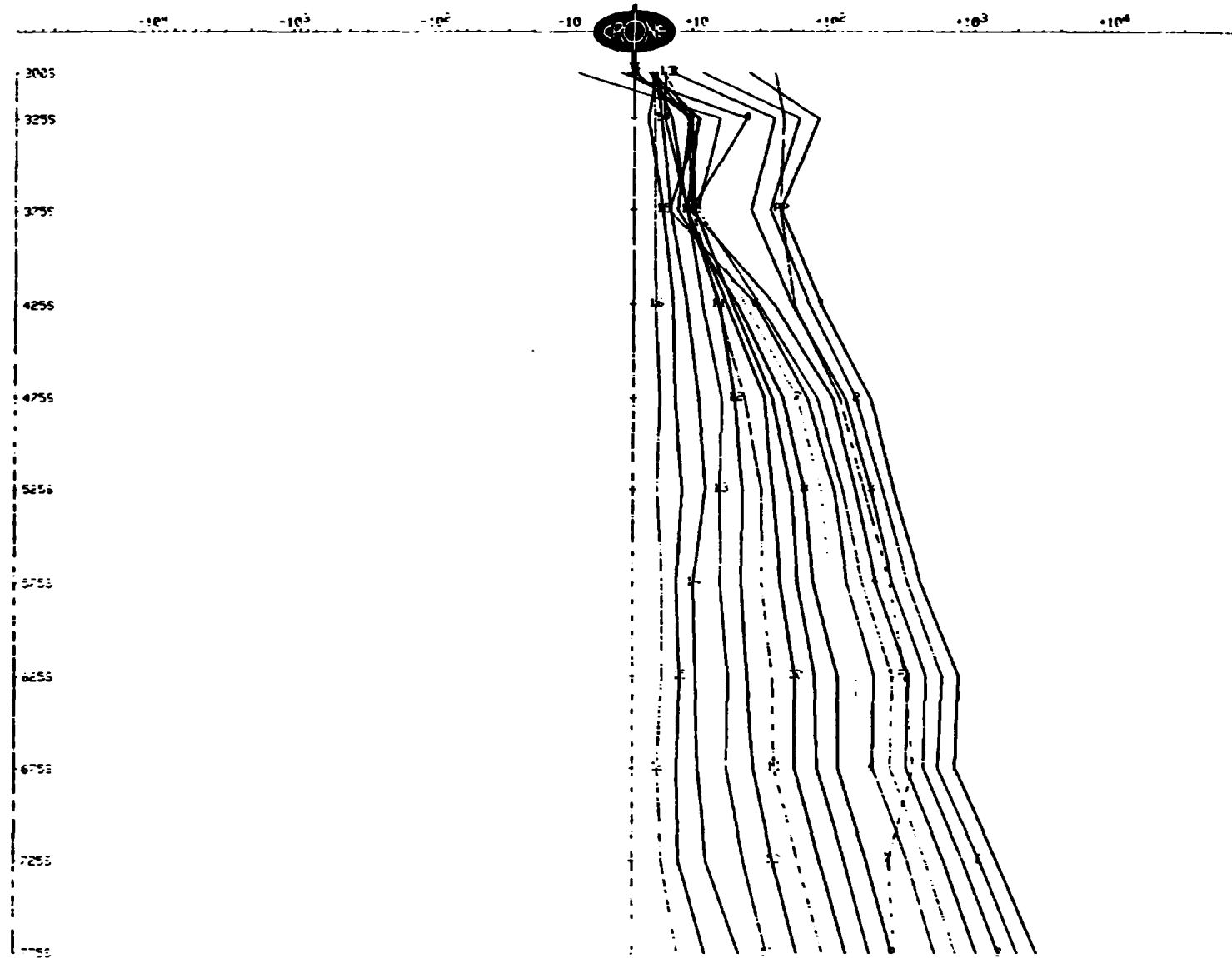
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL. D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 12, 1995

Line : 0E  
Tx Loop : 3  
File name : LOFT3.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dL nanoTesla/sec - 16 channels and PP

Scale: 1:2500



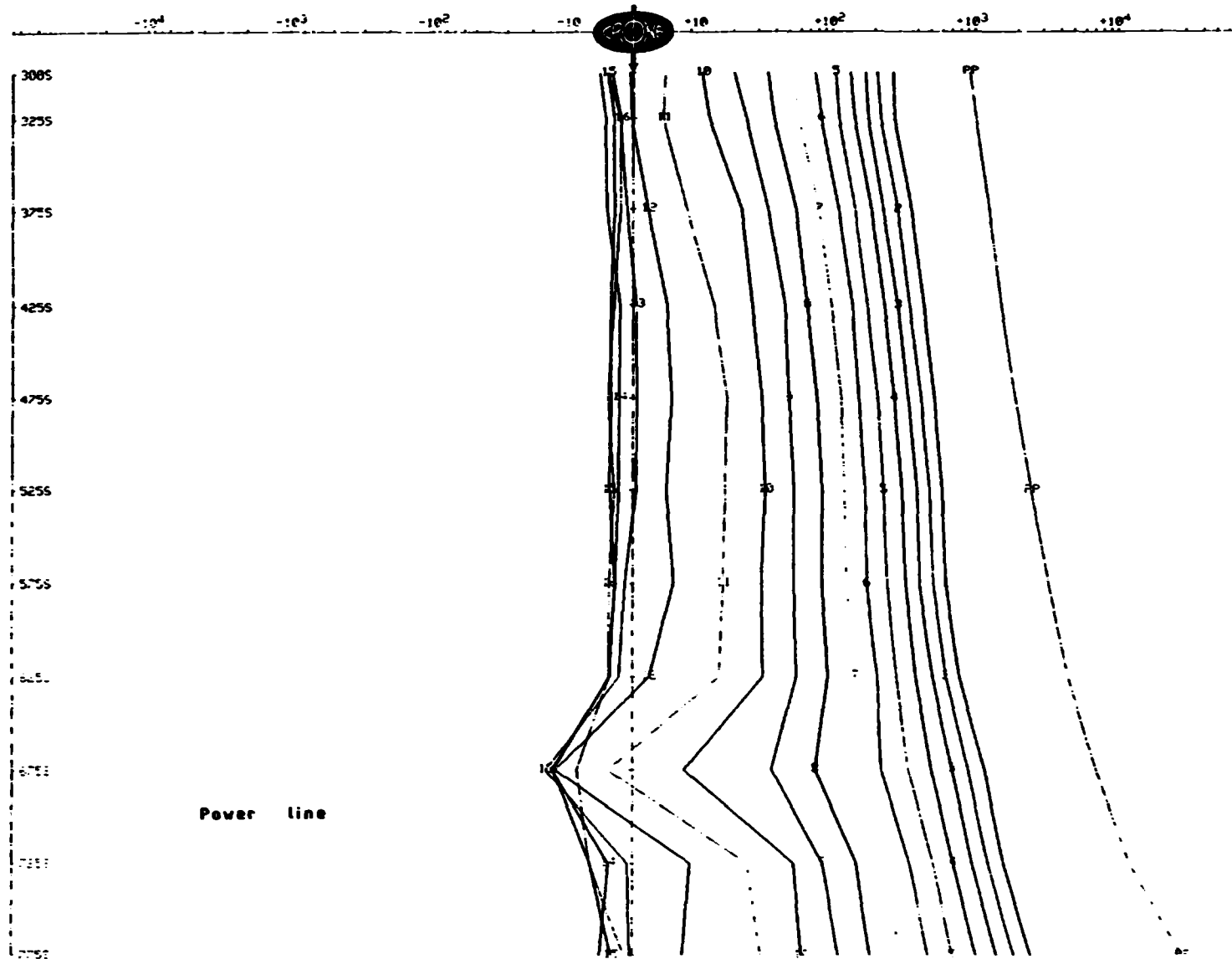
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 12, 1995

Line : 100E  
Tx Loop : 3  
File name : L100ET3.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



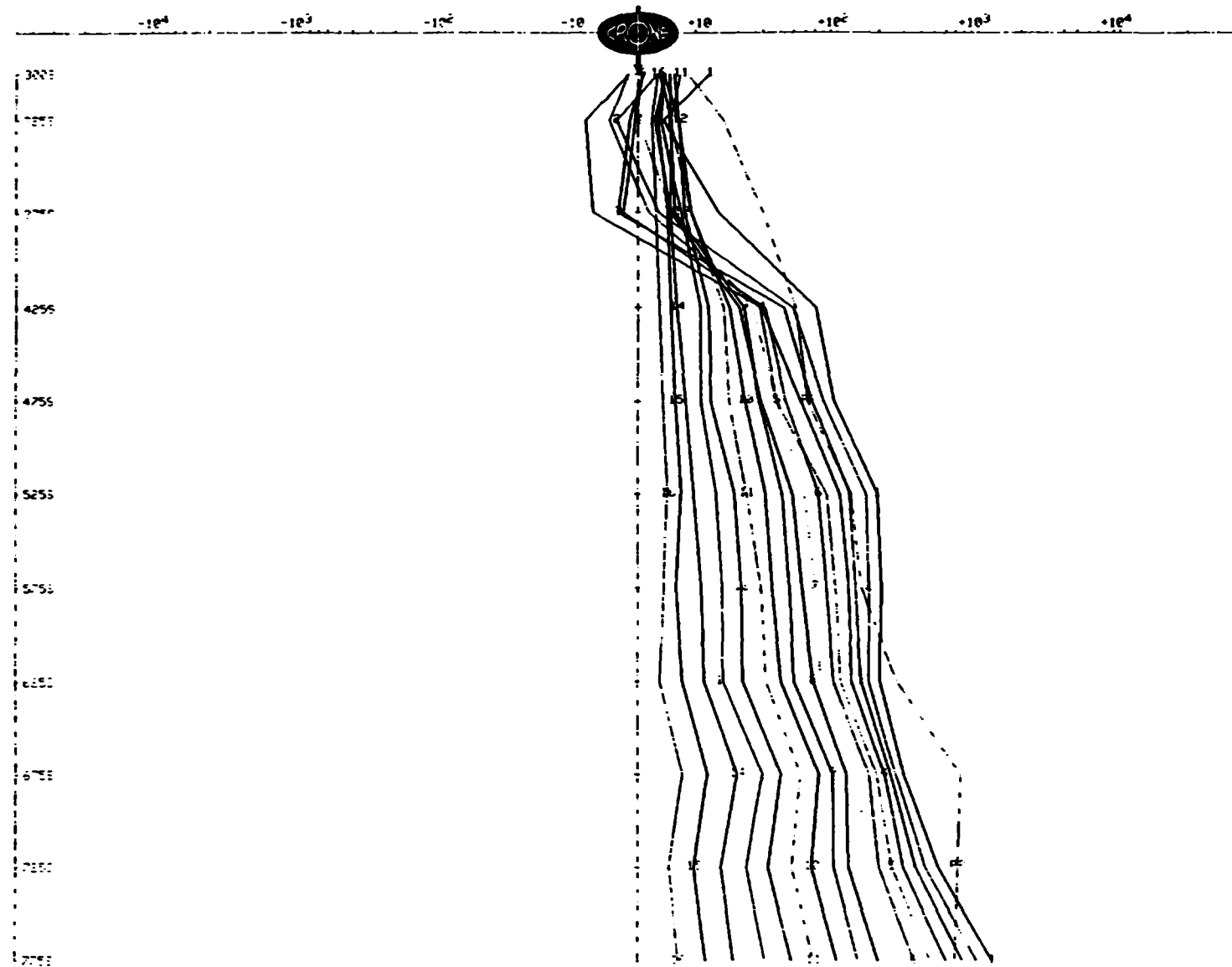
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 12, 1995

Line : 100E  
Tx Loop : 3  
File name : L100ET3.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



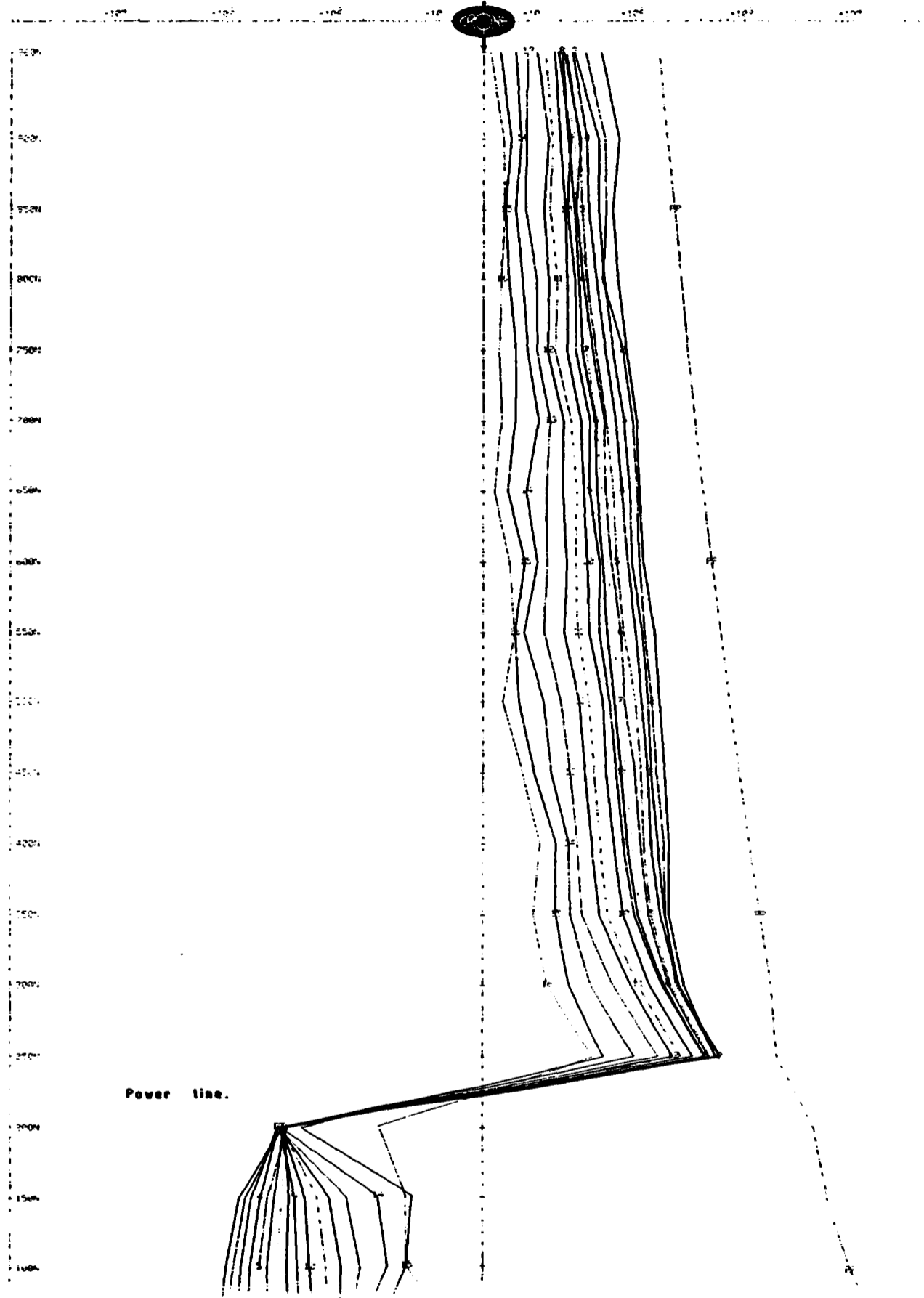
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 14, 1995

Line : L200W  
TX Loop : 2  
File name : L200WT2.PFM

VERTICAL COMPONENT dbz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



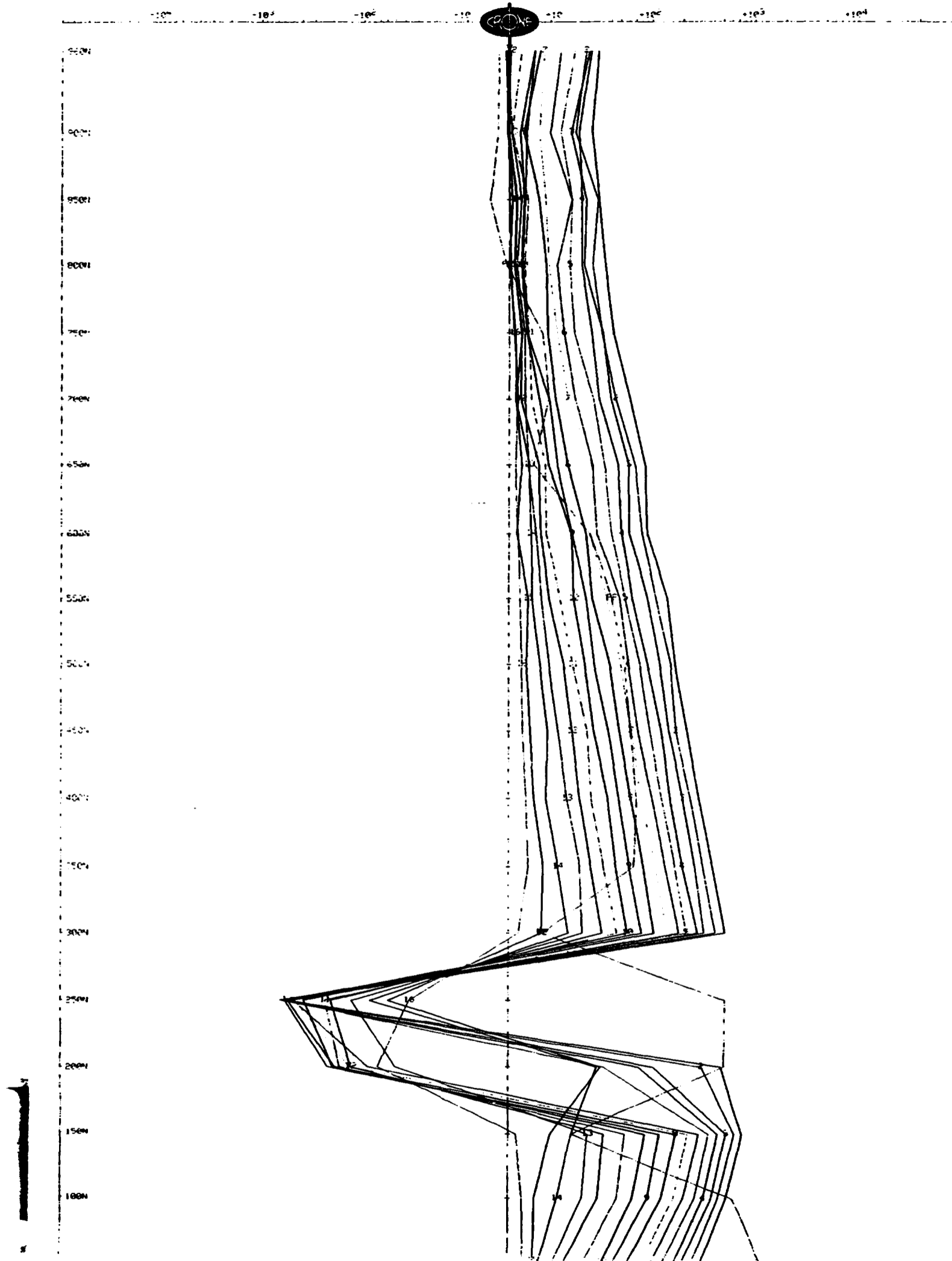
CRONIN GEOPHYSICAL & CONSULTANTS LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 14, 1995

Line : L200W  
Tx Loop : 2  
File name : L200WT2.PEM

IN-LINE HORIZONTAL COMPONENT  $dBx/dt$  nanoTesla/sec - 16 channels and PP

Scale: 1:2500



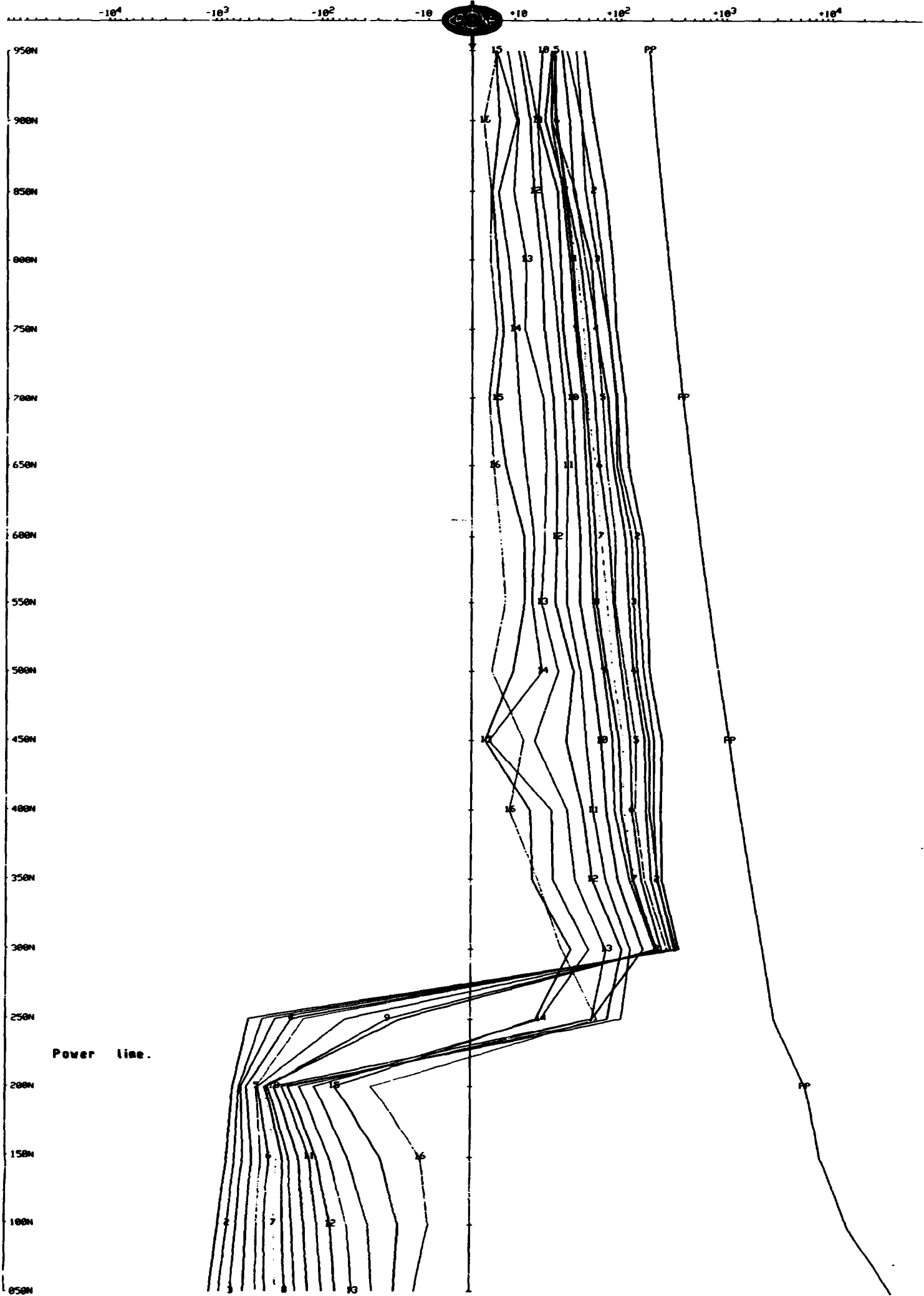


SURFACE PEM

Client : FALCONBRIDGE      Line : L100W  
Grid : SASS-LAKE      Tx Loop : 2  
Date : Mar 14, 1995      File name : L100WT2.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



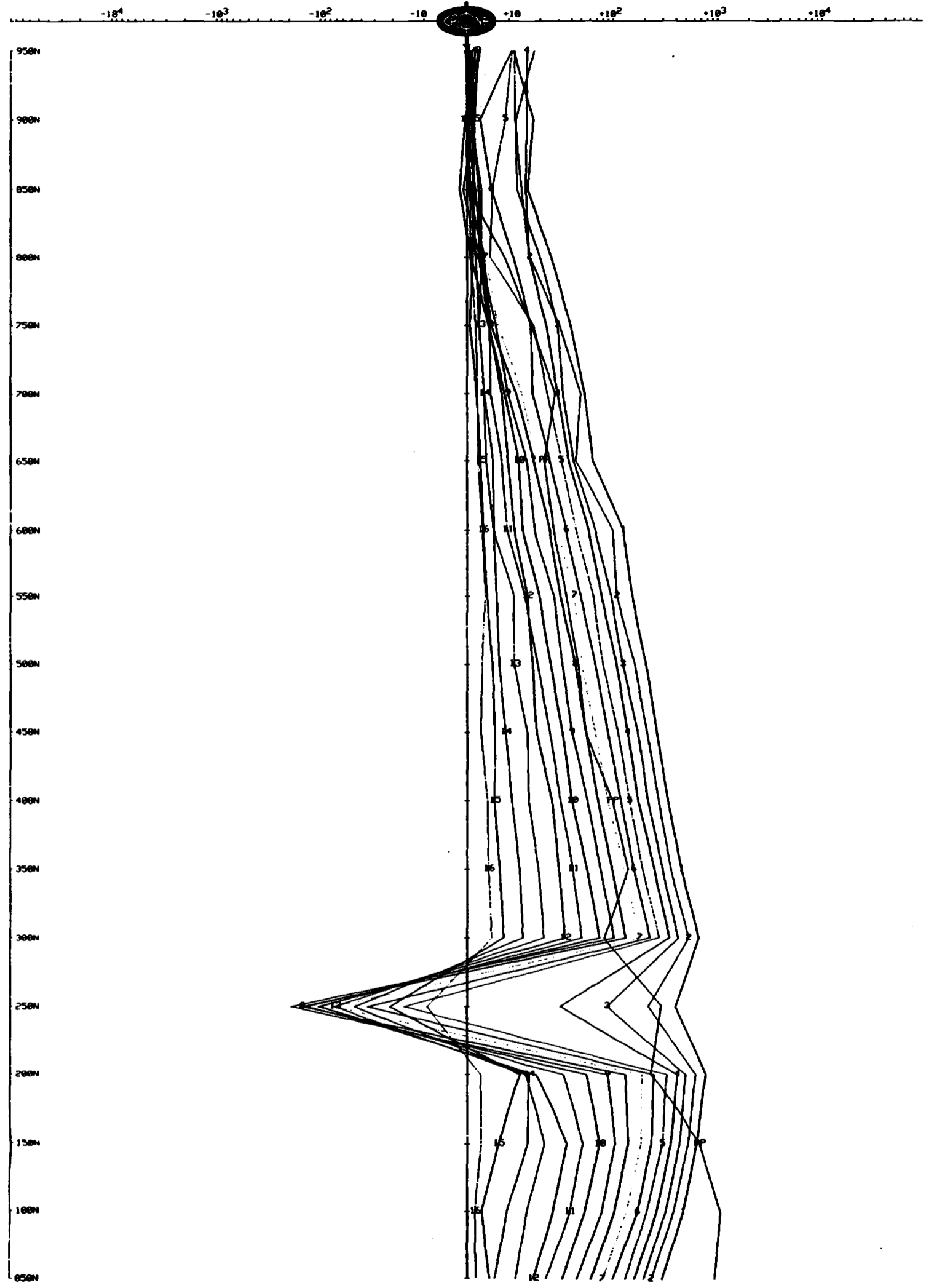
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 14, 1995

Line : L100W  
Tx Loop : 2  
File name : L100WT2.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500

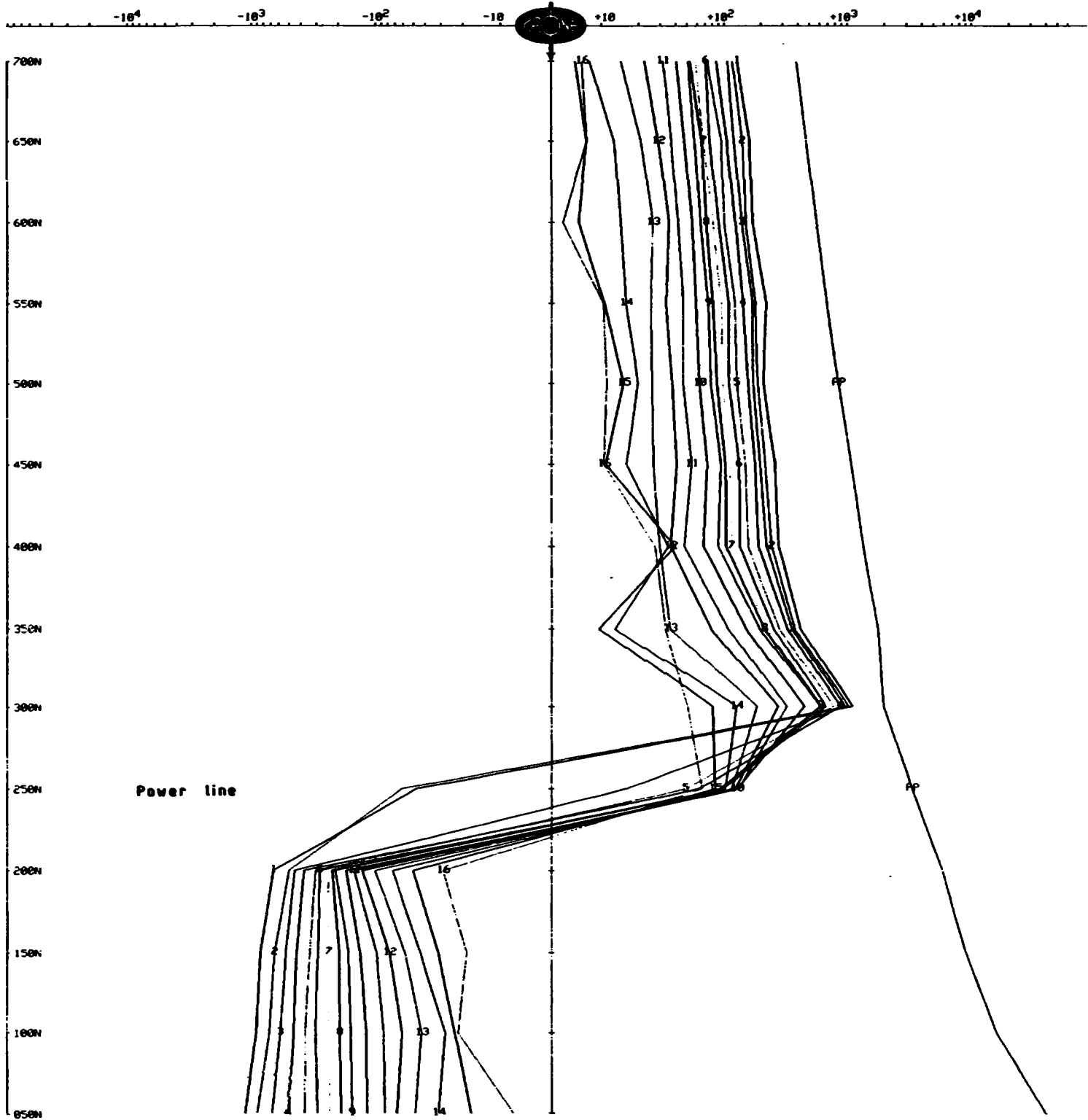


CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 14, 1995  
Line : L000W  
Tx Loop : 2  
File name : L000WT2.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



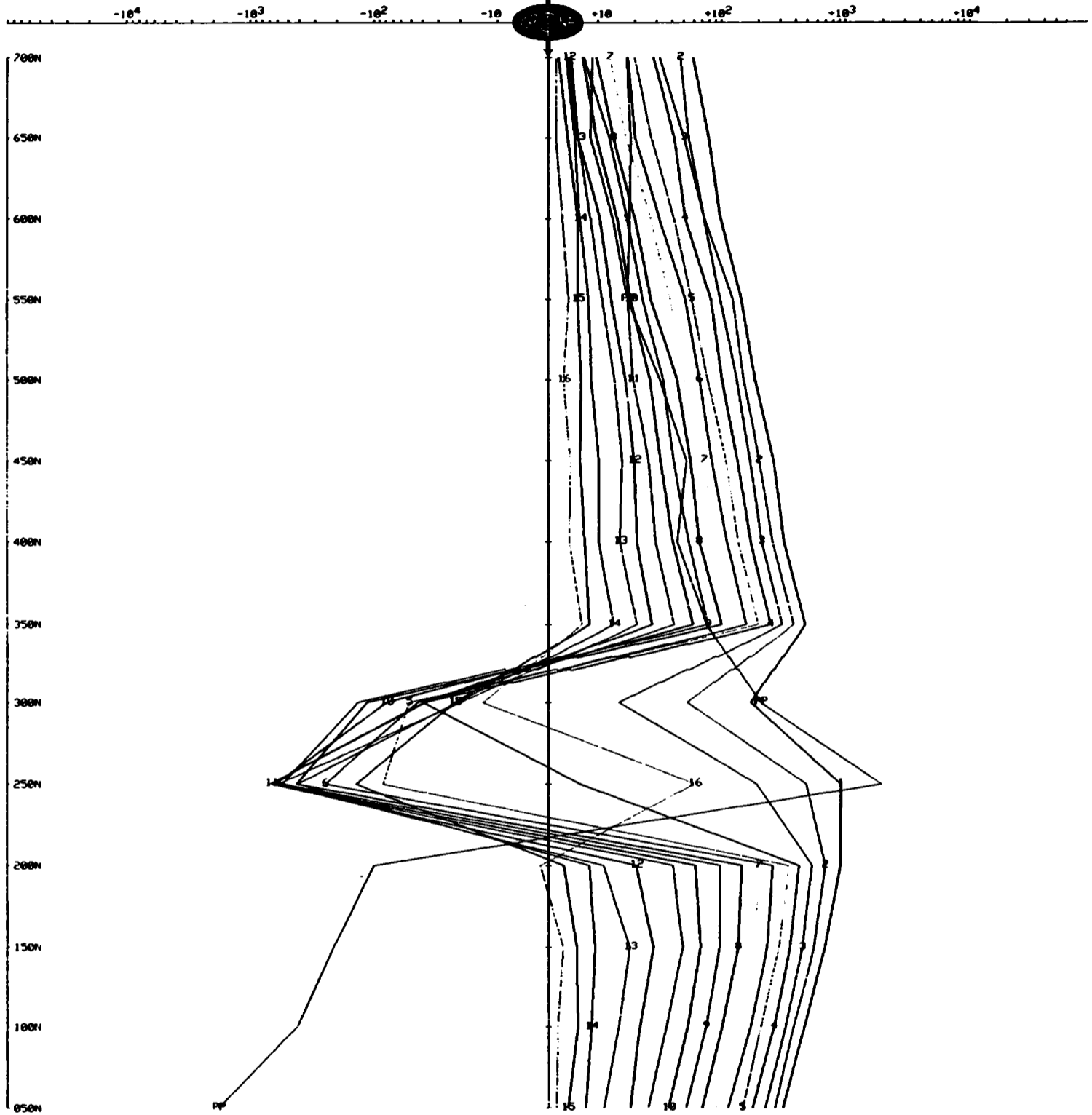
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 14, 1995

Line : L000W  
Tx Loop : 2  
File name : L000WT2.PEM

IN-LINE HORIZONTAL COMPONENT  $dB_x/dt$  nanoTesla/sec - 16 channels and PP

Scale: 1:2500



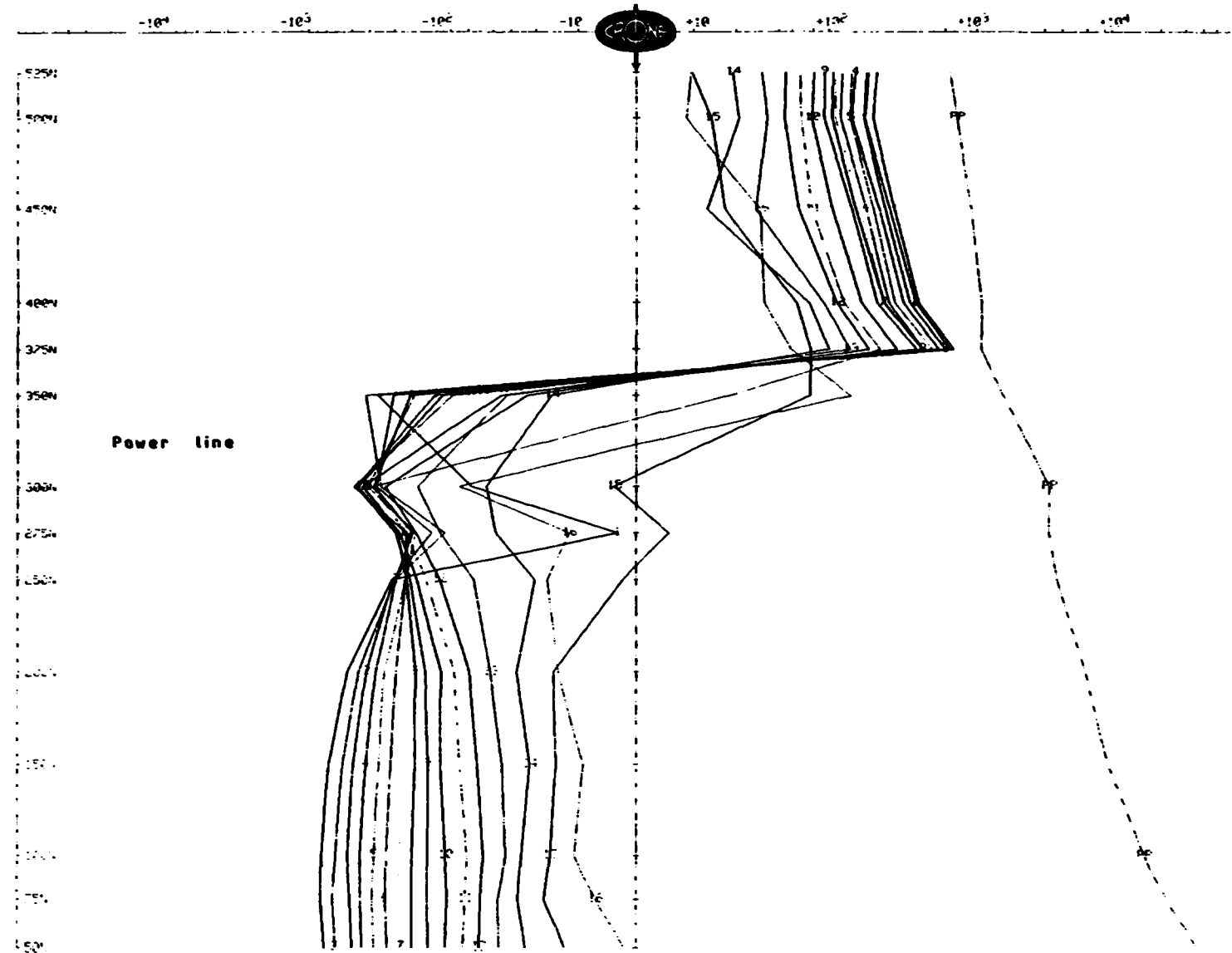
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 14, 1995

Line : 100E  
Tx Loop : 2  
File name : L100ET2.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



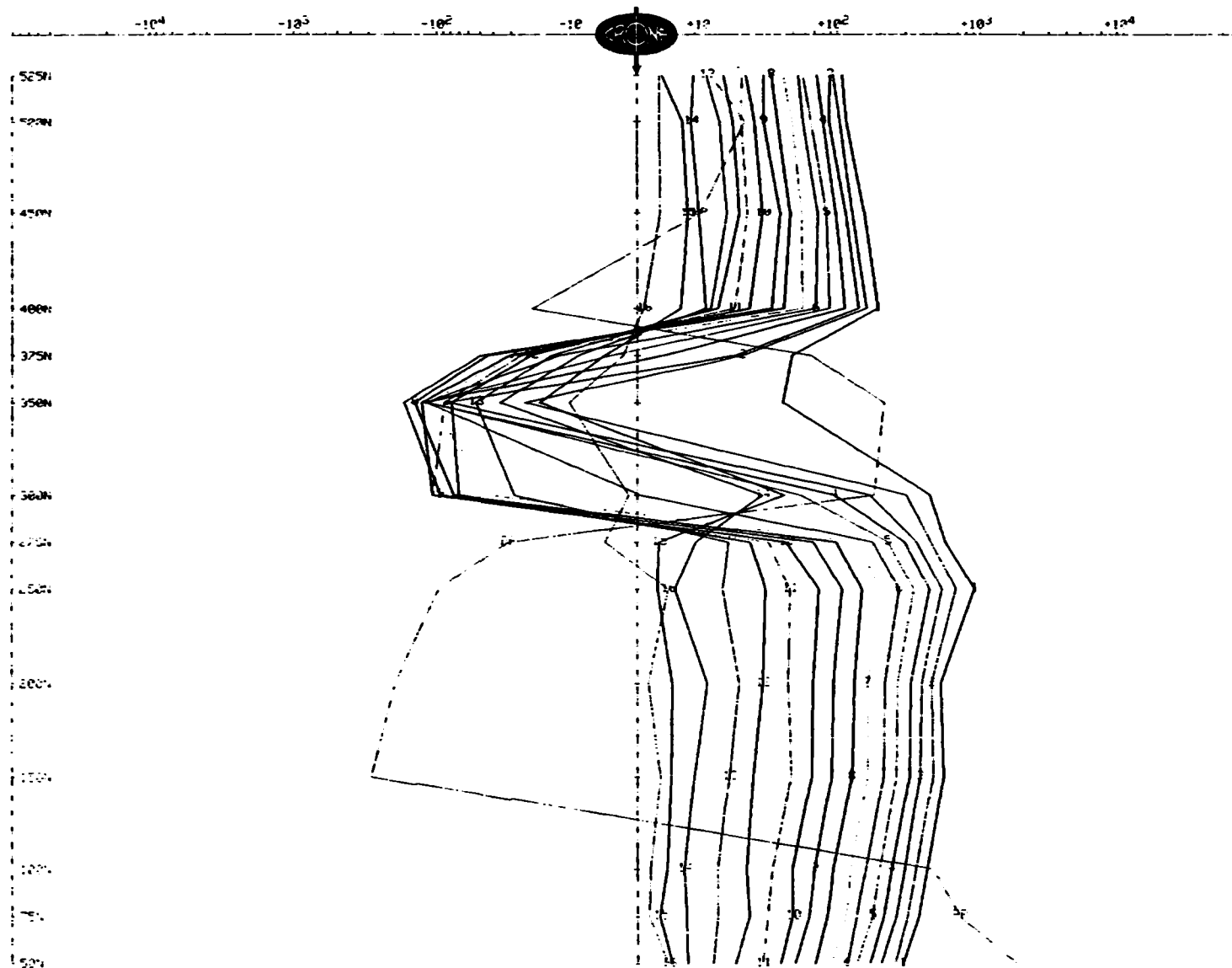
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL. D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 14, 1995

Line : 100E  
Tx Loop : 2  
File name : L100ET2.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



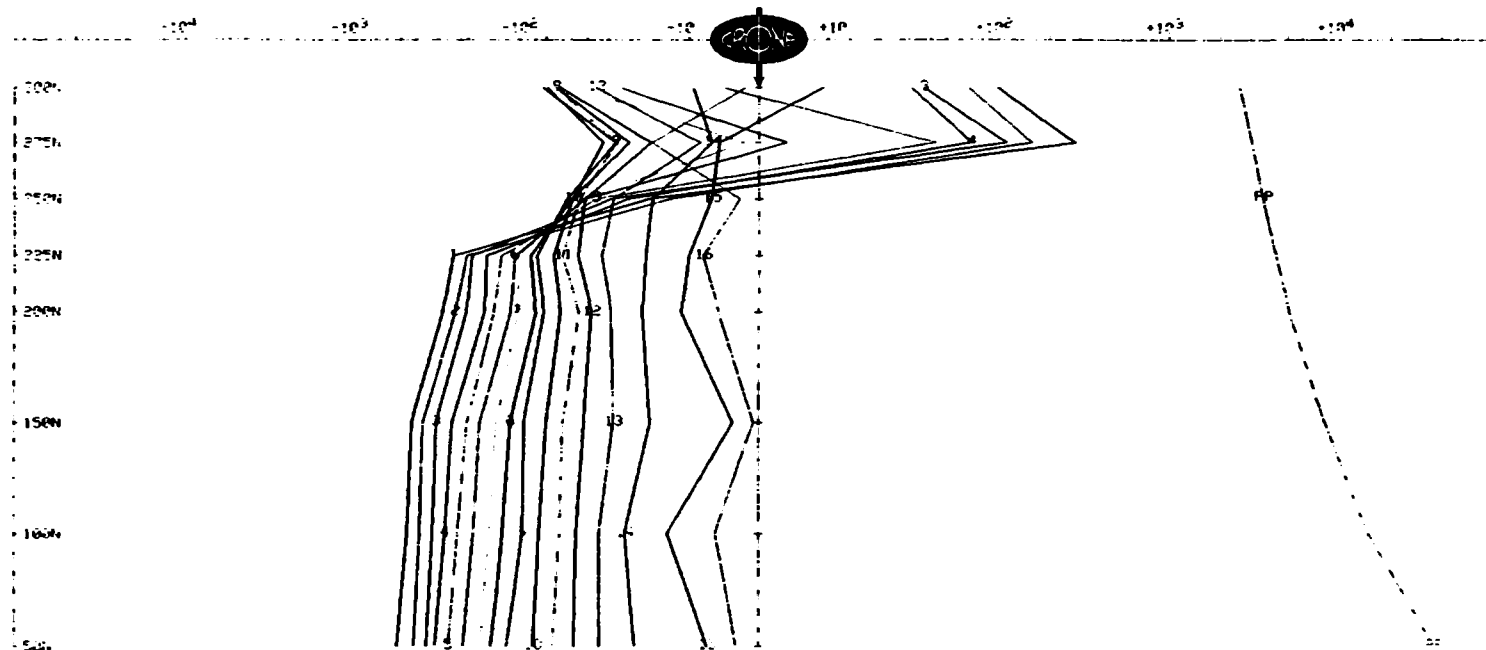
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE L'EE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 14, 1995

Line : 200E  
Tx Loop : 2  
File name : L200FT2.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



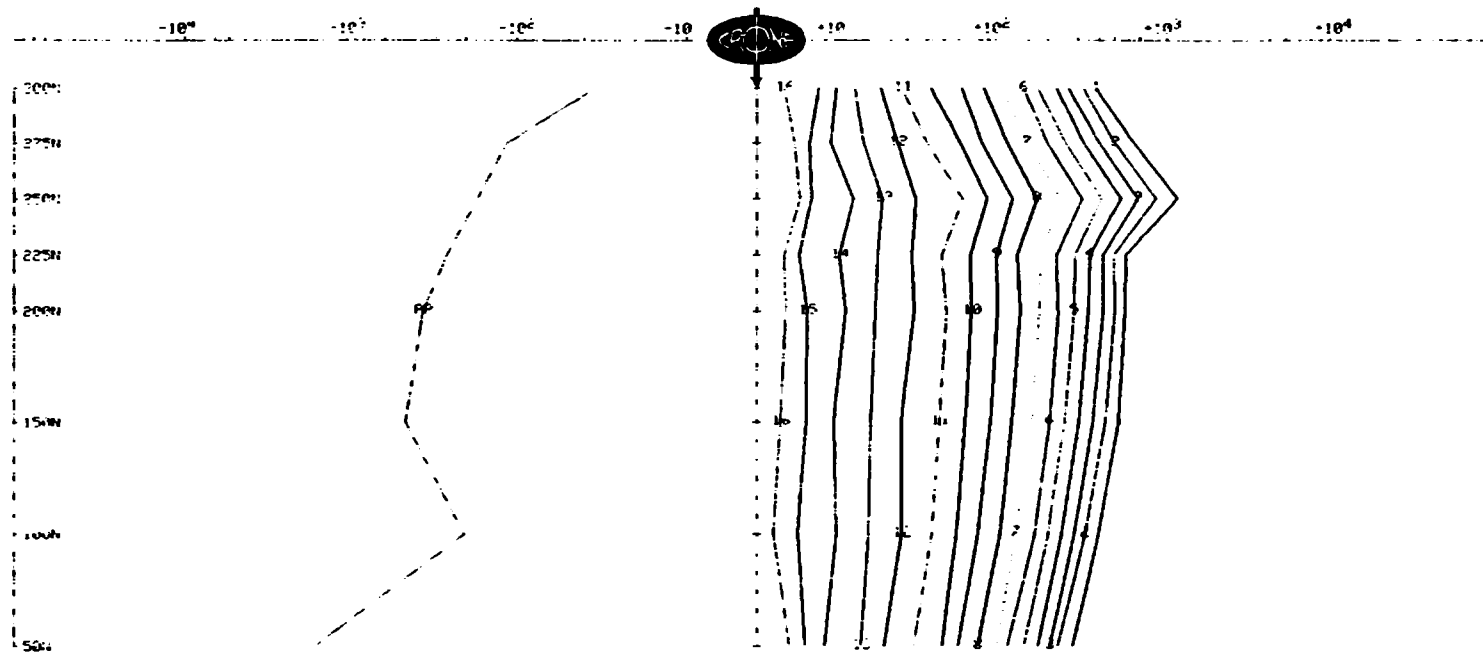
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSIAKE  
Date : Mar 14, 1995

Line : 200E  
Tx Loop : 2  
File name : L200ET2.PEM

IN-LINE HORIZONTAL COMPONENT  $\delta B_x/dt$  nanoTesla/sec - 16 channels and PP

Scale: 1:2500





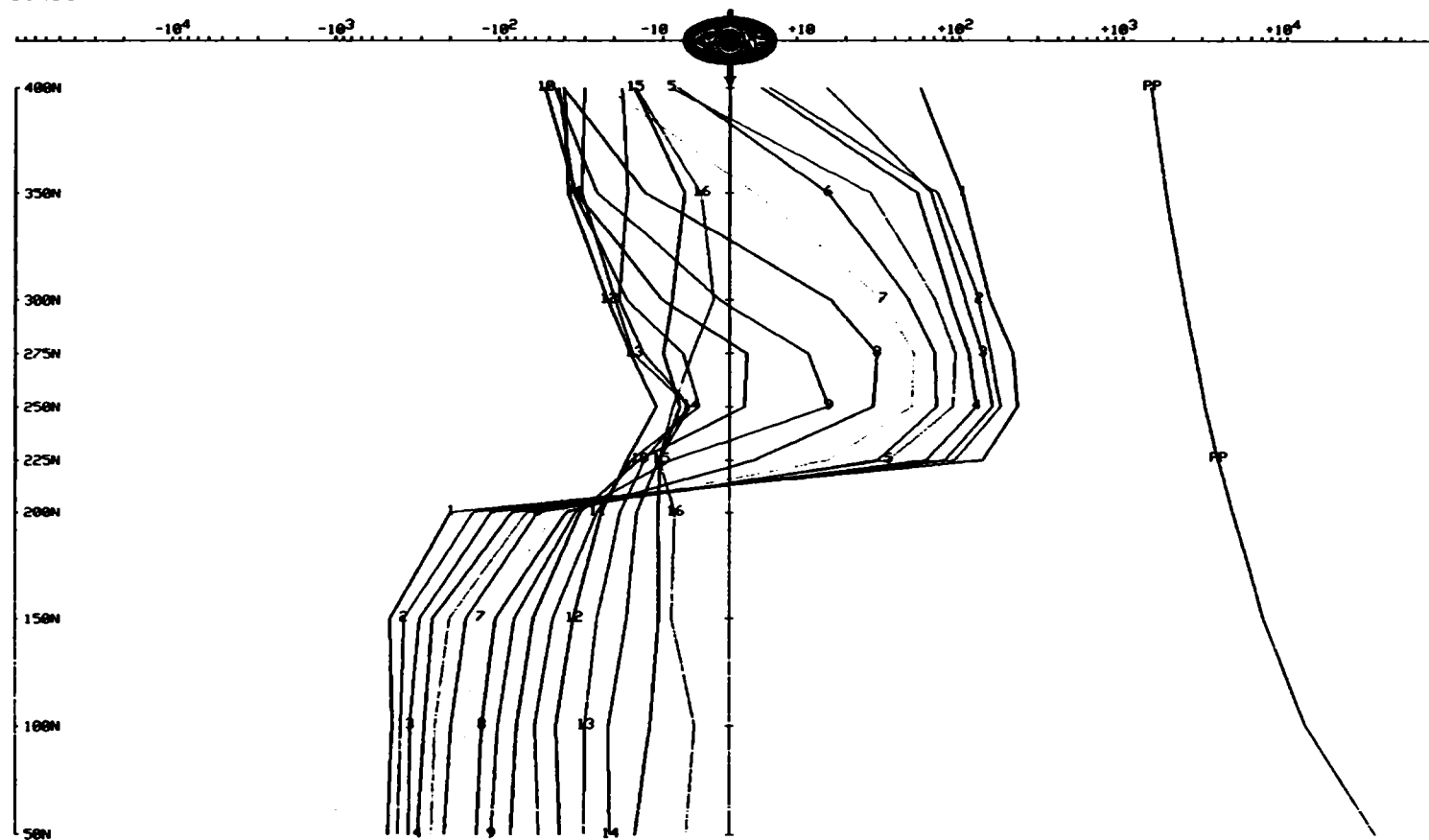
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 14, 1995

Line : 300E  
Tx Loop : 2  
File name : L300ET2.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



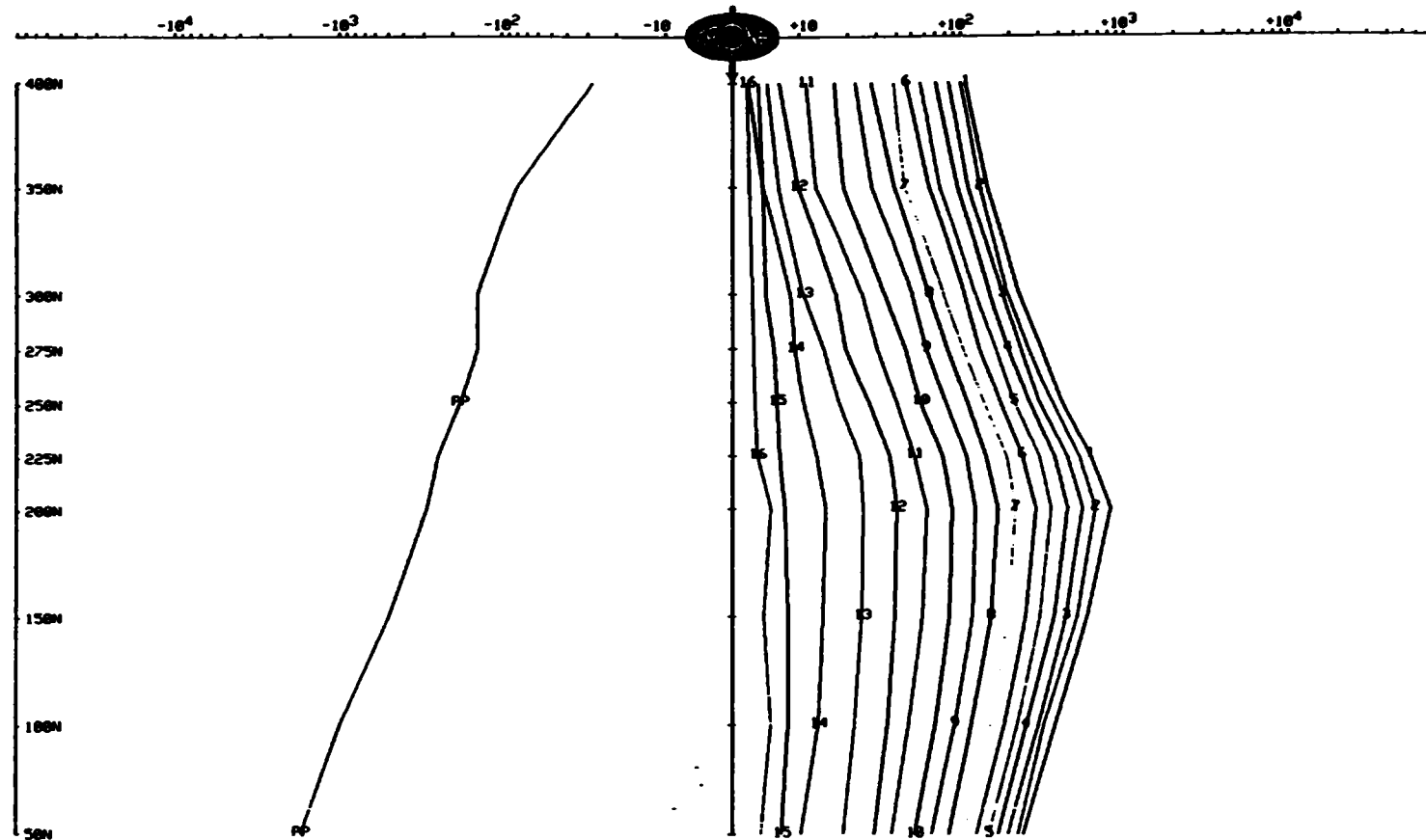
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 14, 1995

Line : 300E  
Tx Loop : 2  
File name : L300ET2.PEM

IN-LINE HORIZONTAL COMPONENT  $dBx/dt$  nanoTesla/sec - 16 channels and PP

Scale: 1:2500



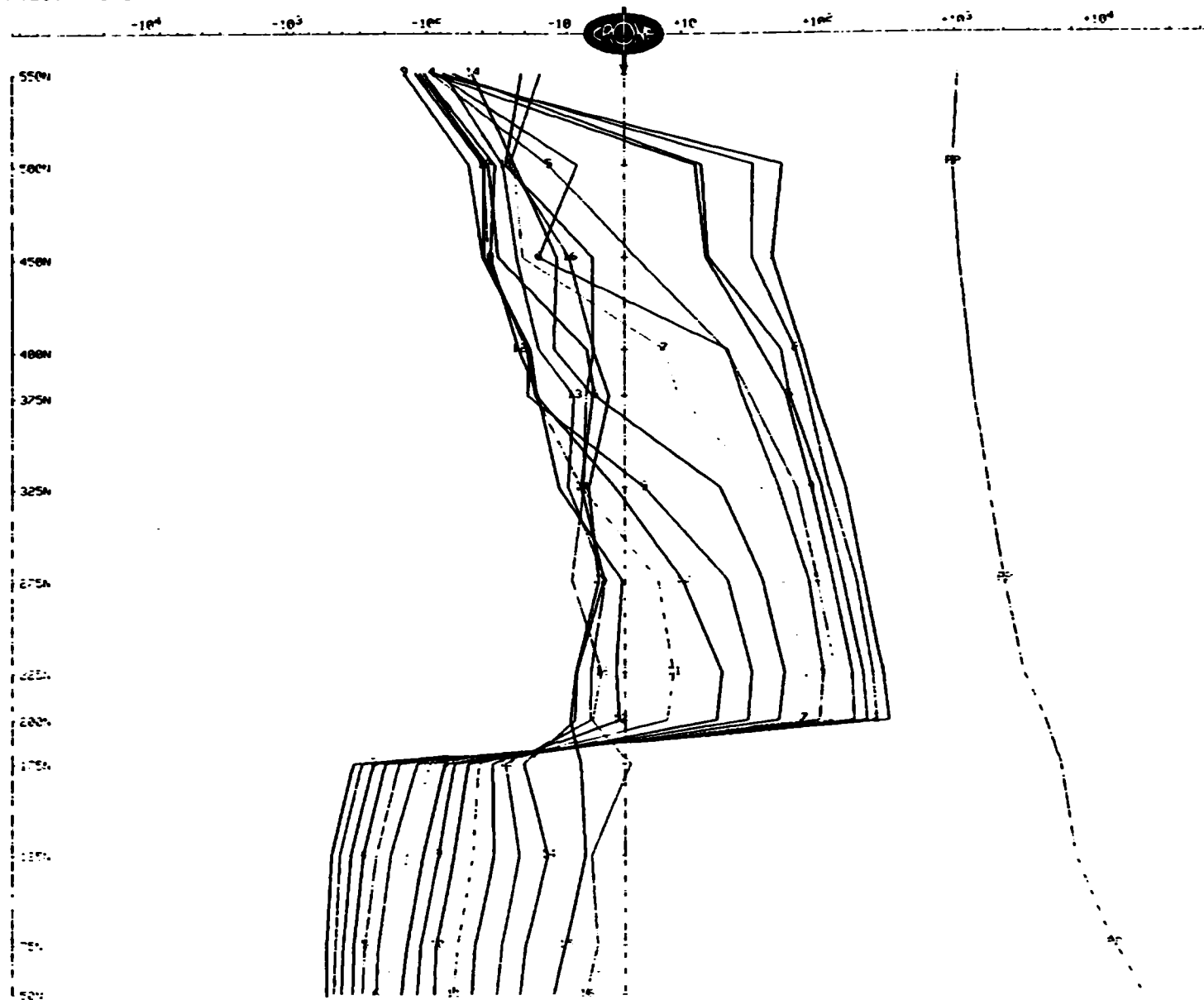
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 14, 1995

Line : 400E  
Tx Loop : 2  
File name : L400T2.PFN

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



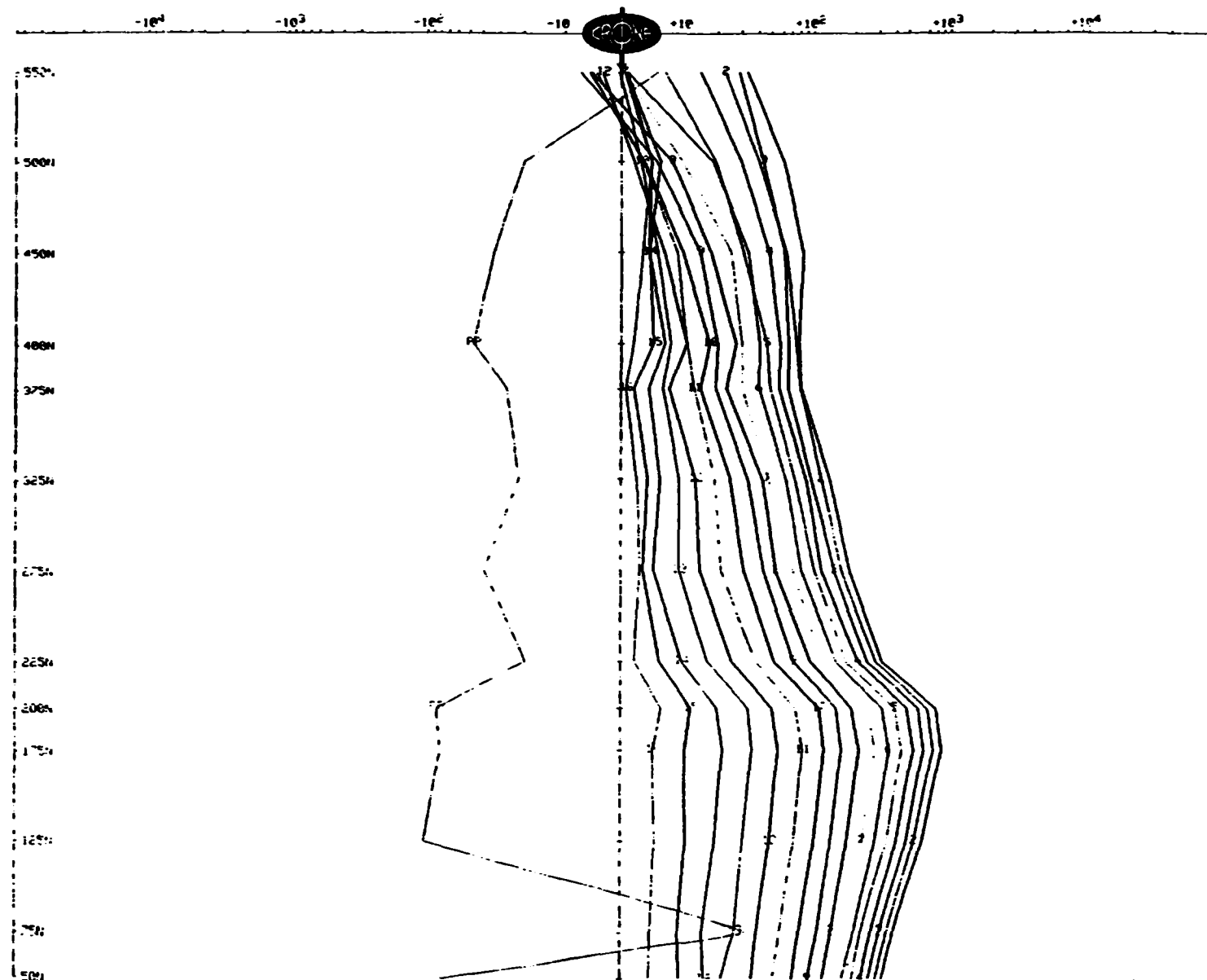
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL, D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 14, 1995

Line : 400E  
Tx Loop : 2  
File name : L400ET2.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



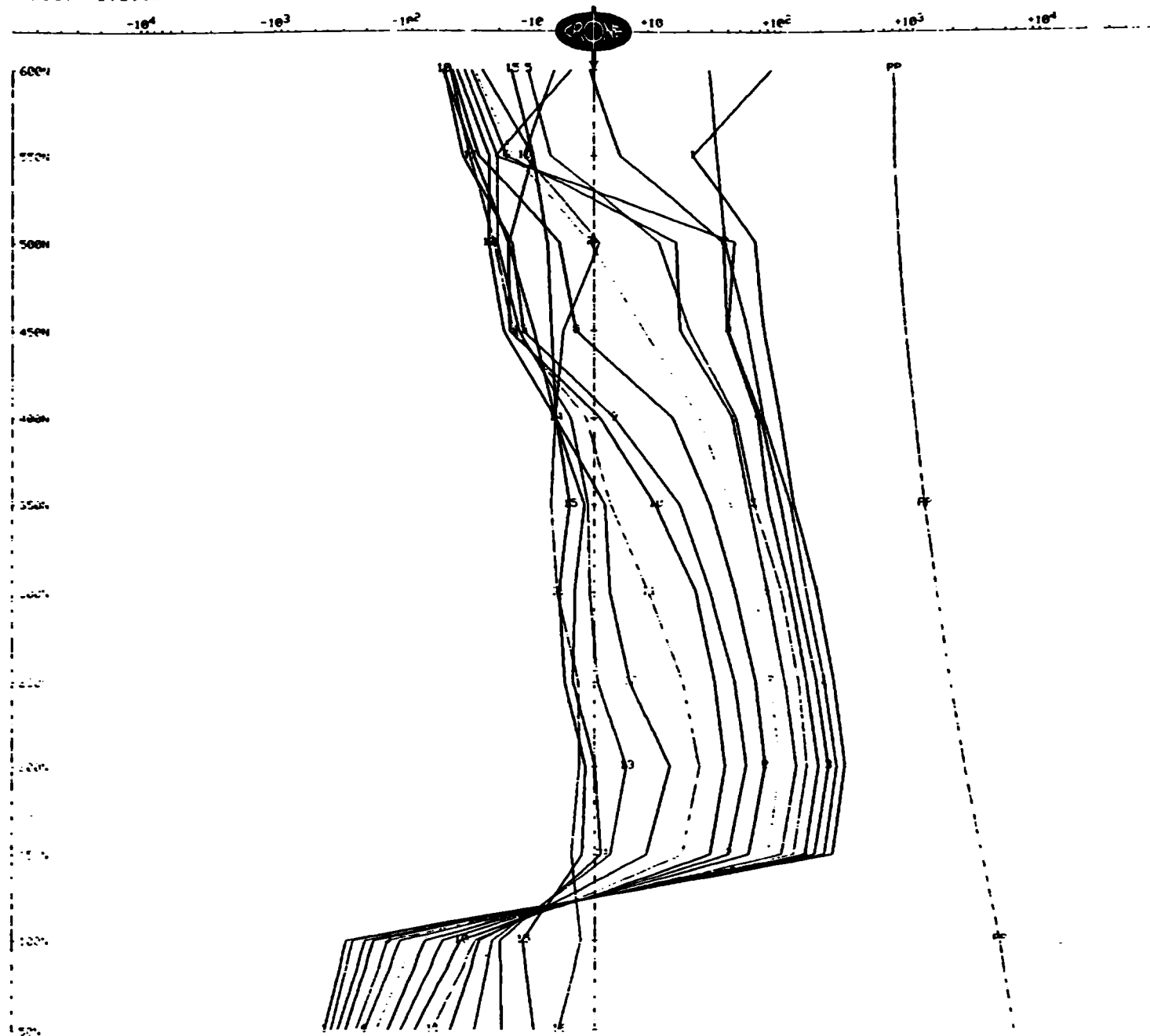
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL. D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 14, 1995

Line : 500E  
Tx Loop : 2  
File name : L500ET2.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



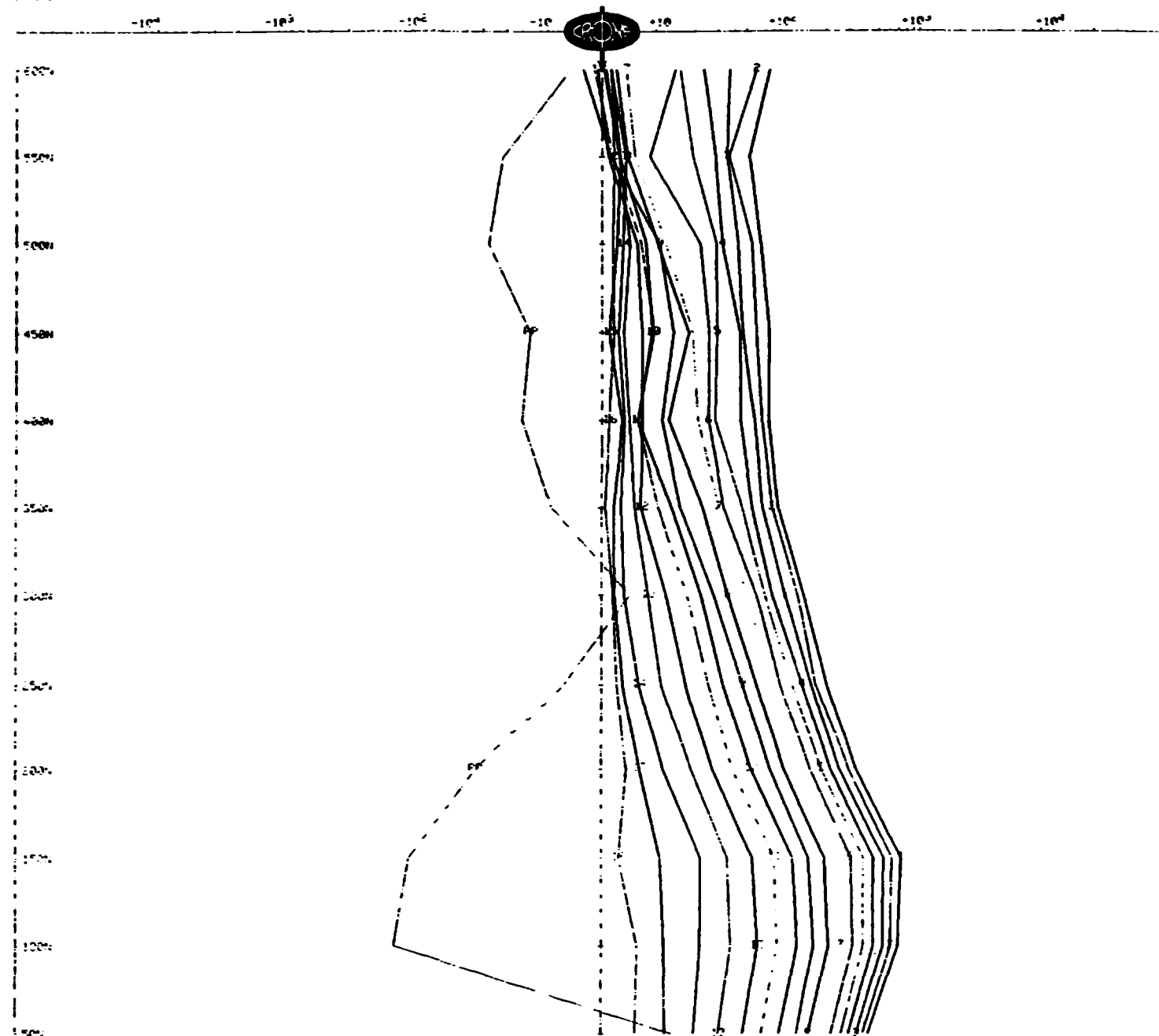
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 14, 1995

Line : 500E  
Tx Loop : 2  
File name : L500FT2.PFM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



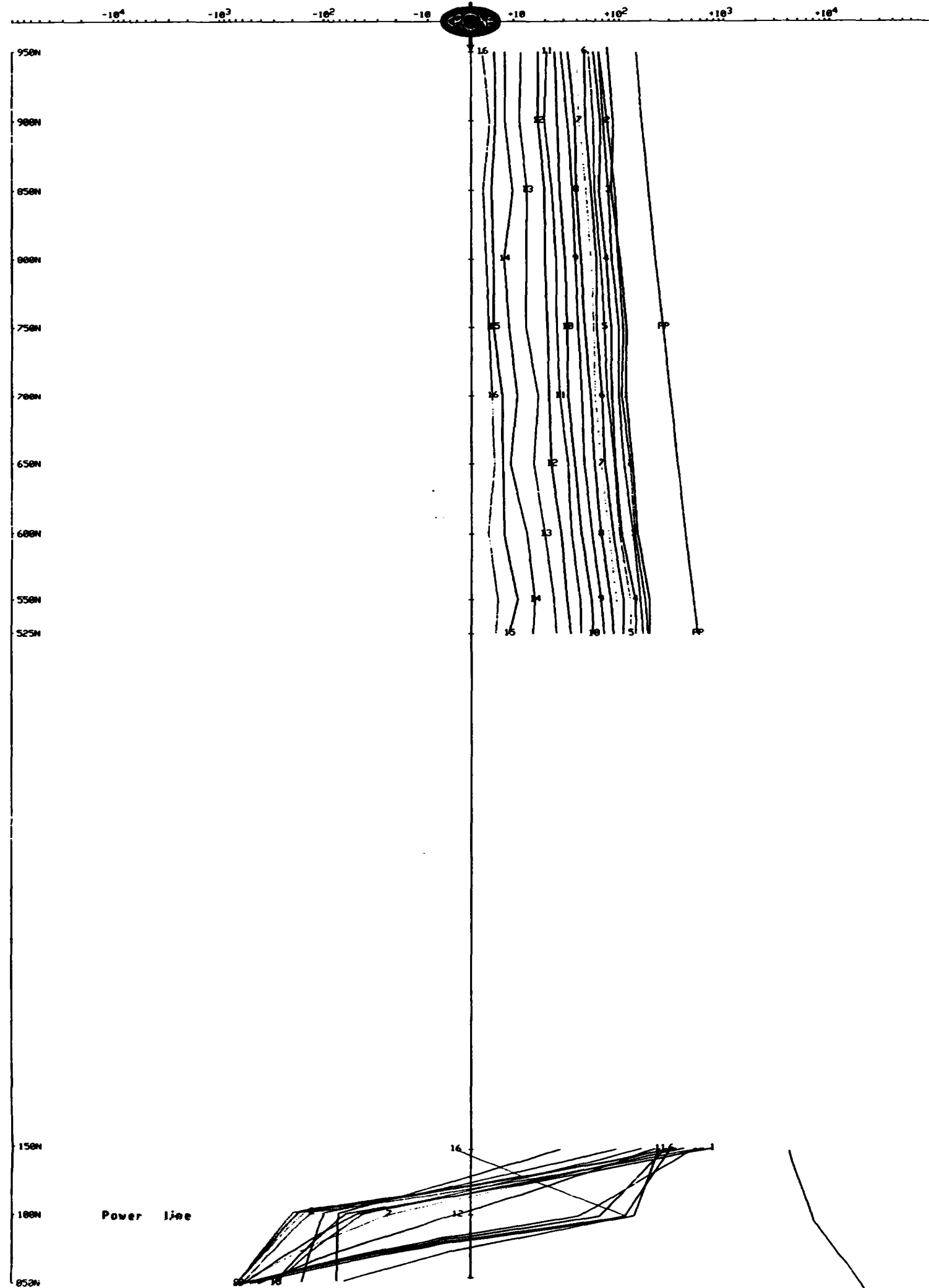
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 15, 1995

Line : L800W  
Tx Loop : 1  
File name : L800WT1.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



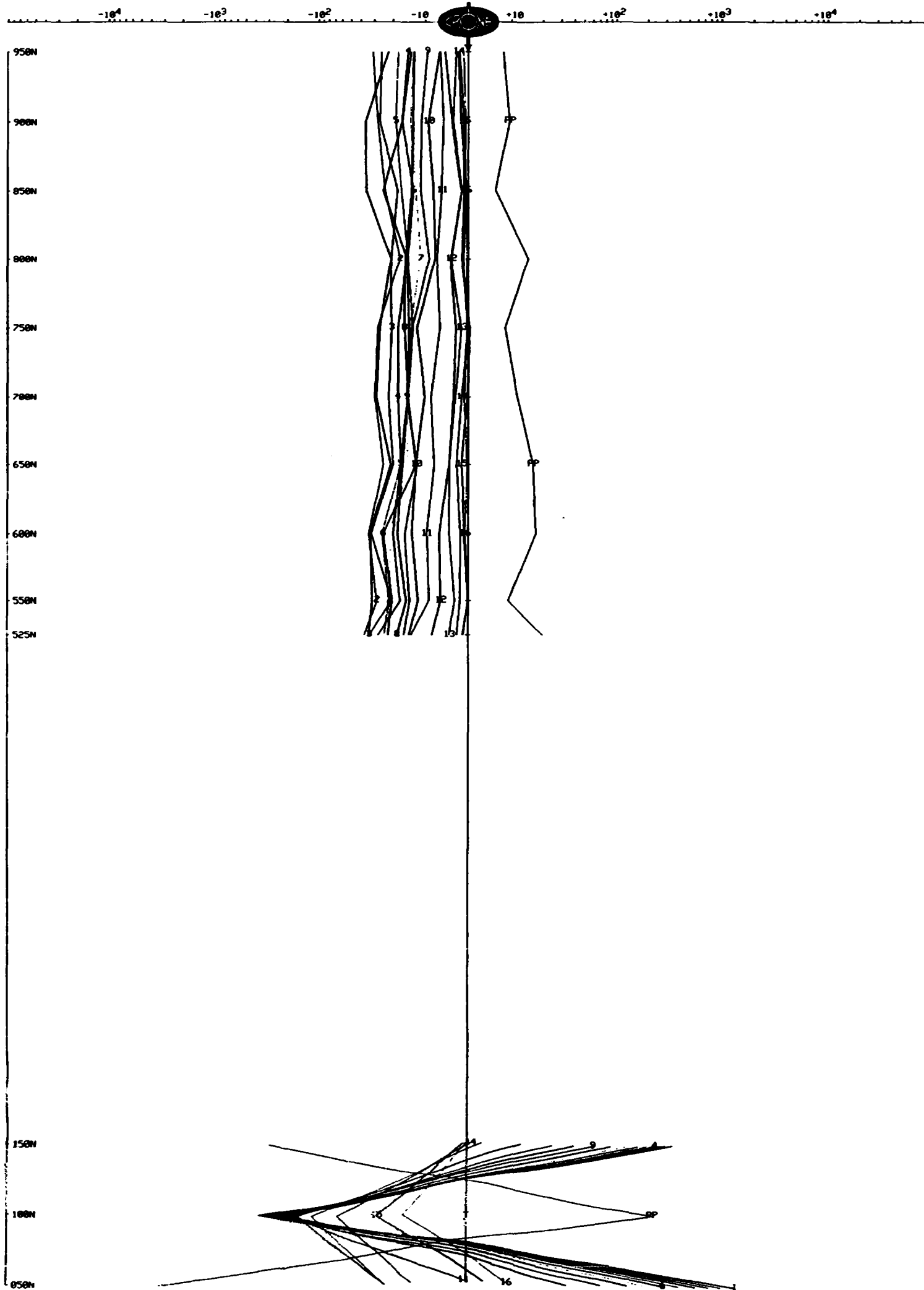
VAL. D'OR GEOPHYSIQUE LTÉE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 15, 1995

Line : L800W  
Tx Loop : 1  
File name : L800WT1.PEM

IN-LINE HORIZONTAL COMPONENT  $dB_x/dt$  nanoTesla/sec - 16 channels and PP

Scale: 1:2500





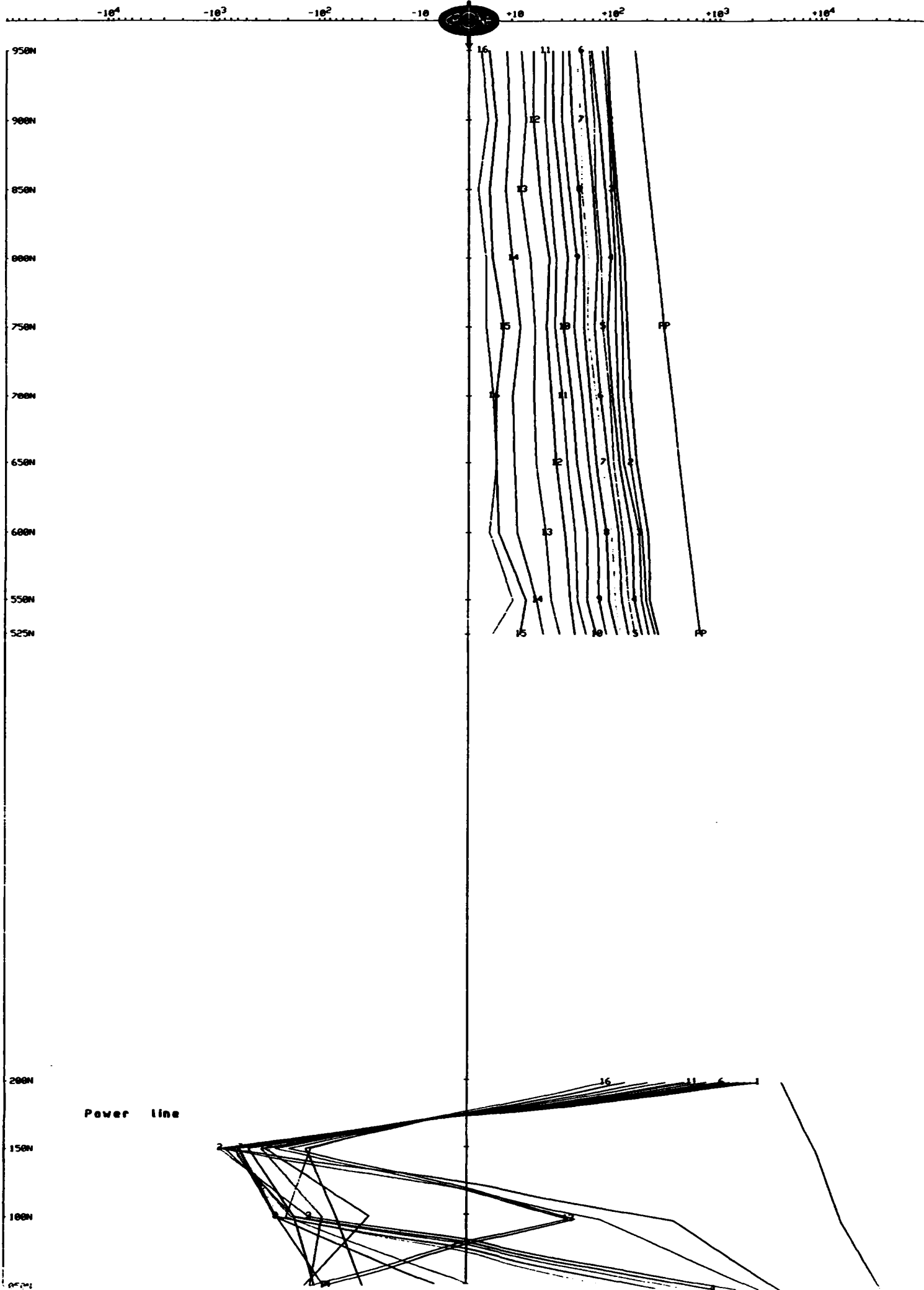
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 15, 1995

Line : L700W  
Tx Loop : 1  
File name : L700WT1.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



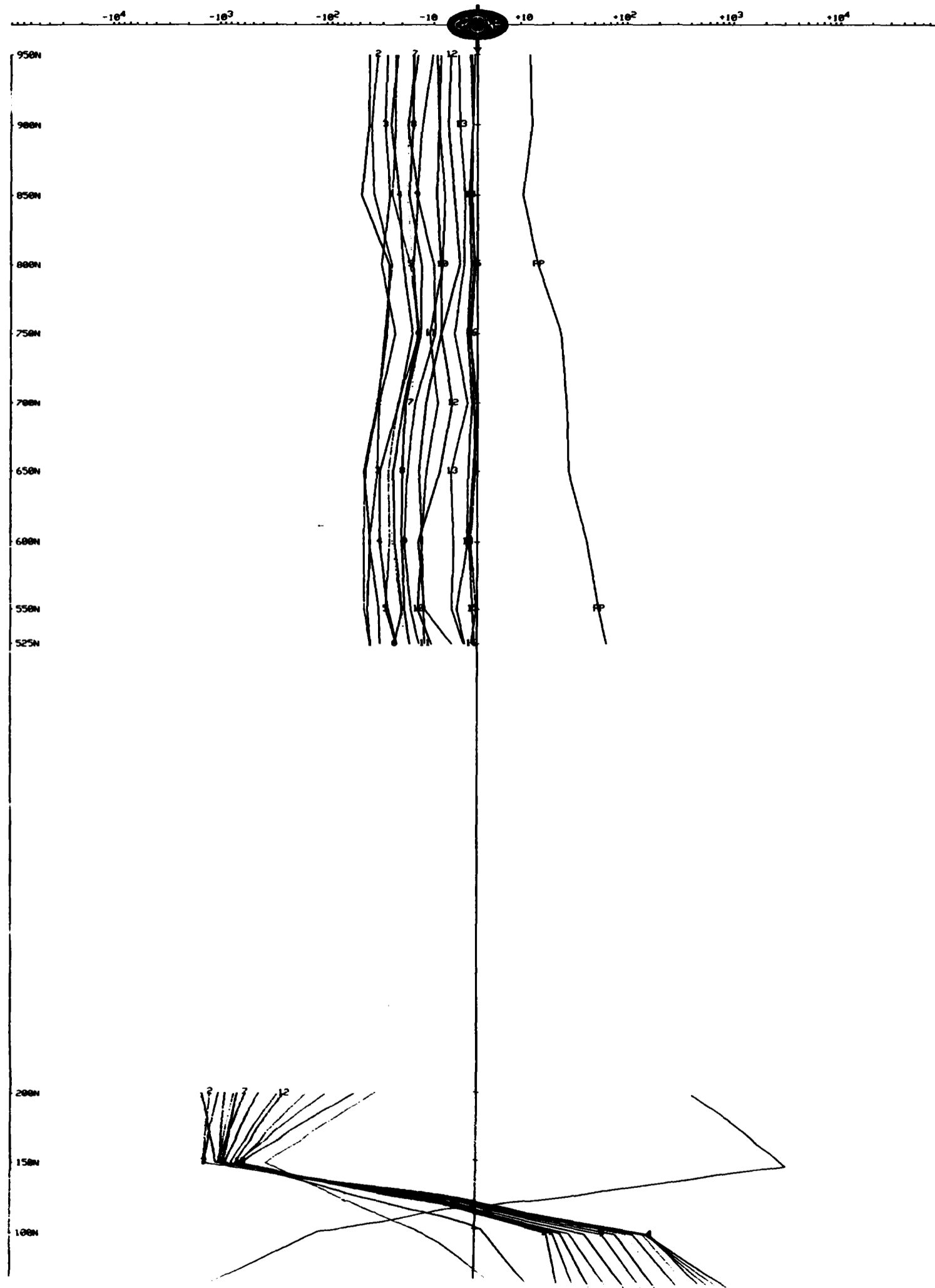
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 15, 1995

Line : L700W  
Tx Loop : 1  
File name : L700WT1.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



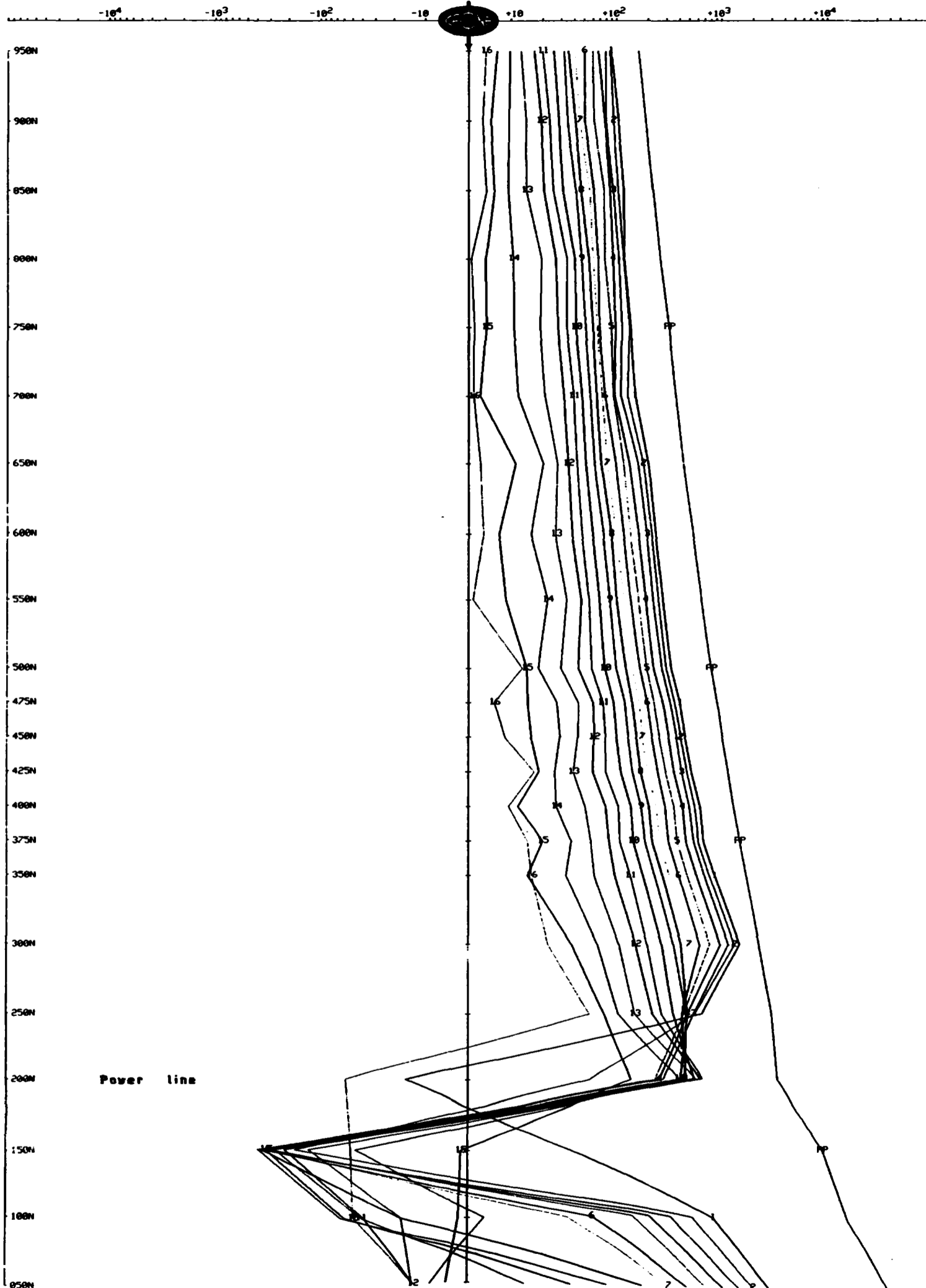
CROWN GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 15, 1995

Line : L600W  
Tx Loop : 1  
File name : L600WT1.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



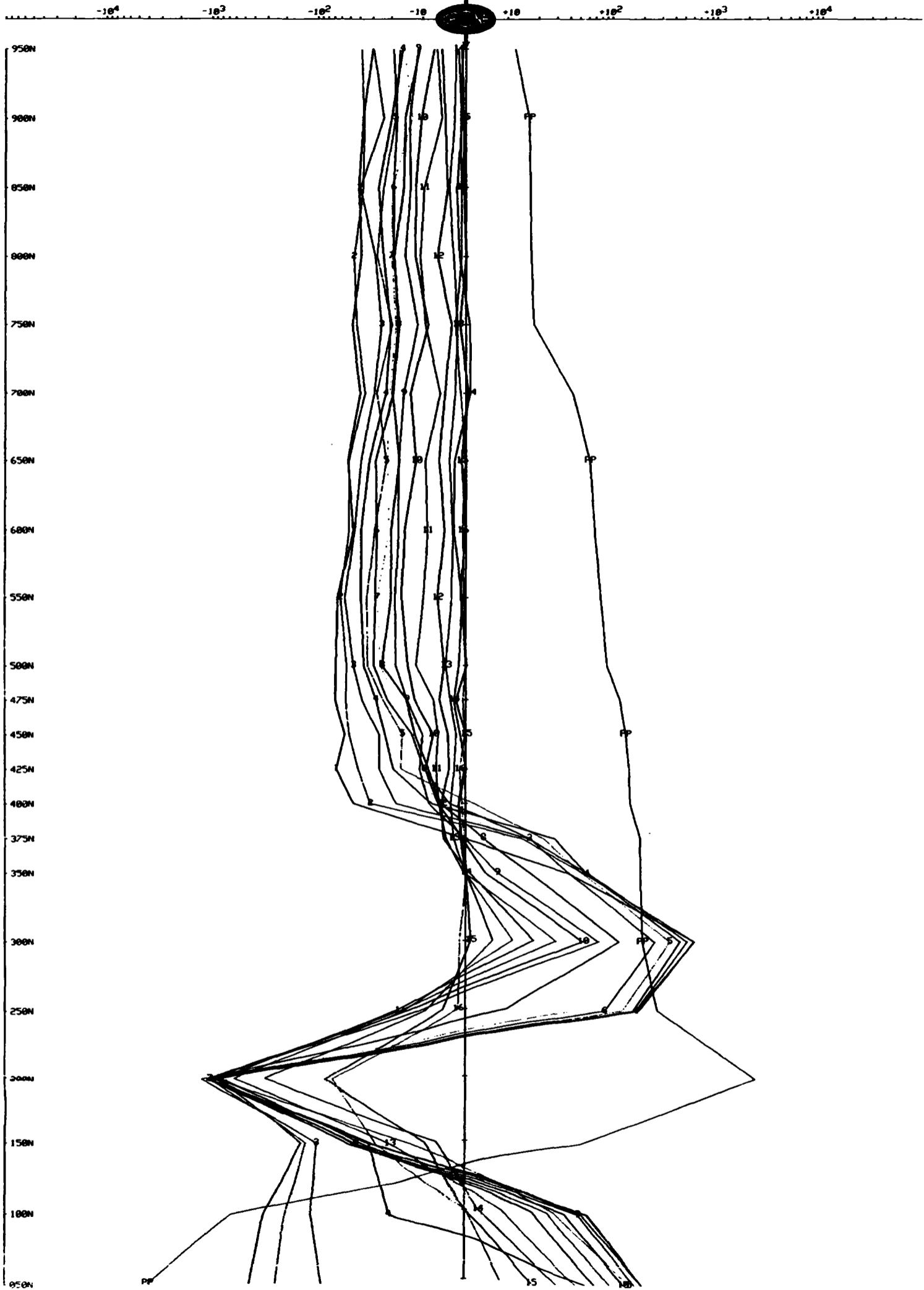
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASS-LAKE  
Date : Mar 15, 1995

Line : L600W  
Tx Loop : 1  
File name : L600WT1.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



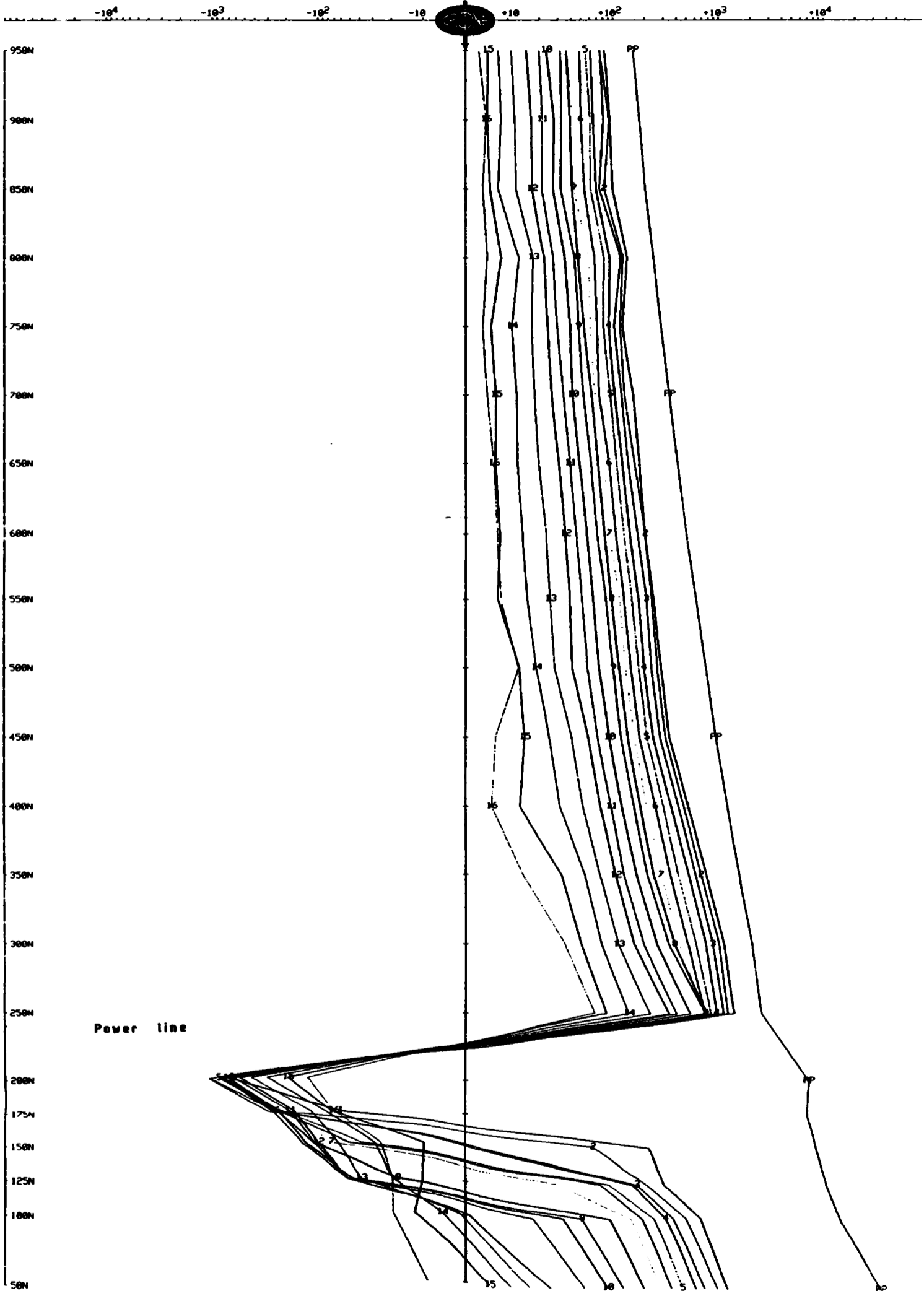
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 15, 1995

Line : 500W  
Tx Loop : 1  
File name : L500WT1.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



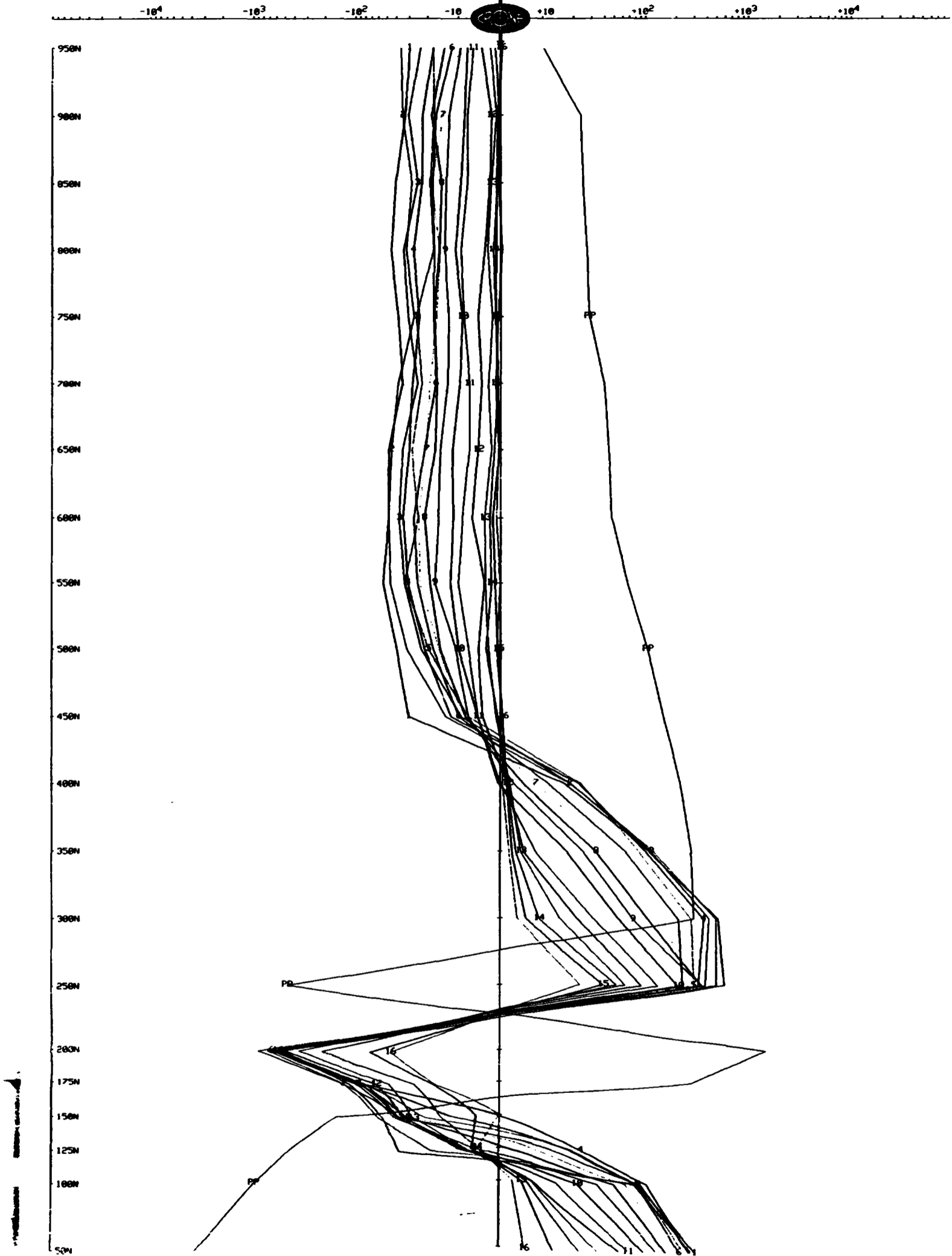
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASLAKE  
Date : Mar 15, 1995

Line : 500W  
Tx Loop : 1  
File name : L500WT1.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



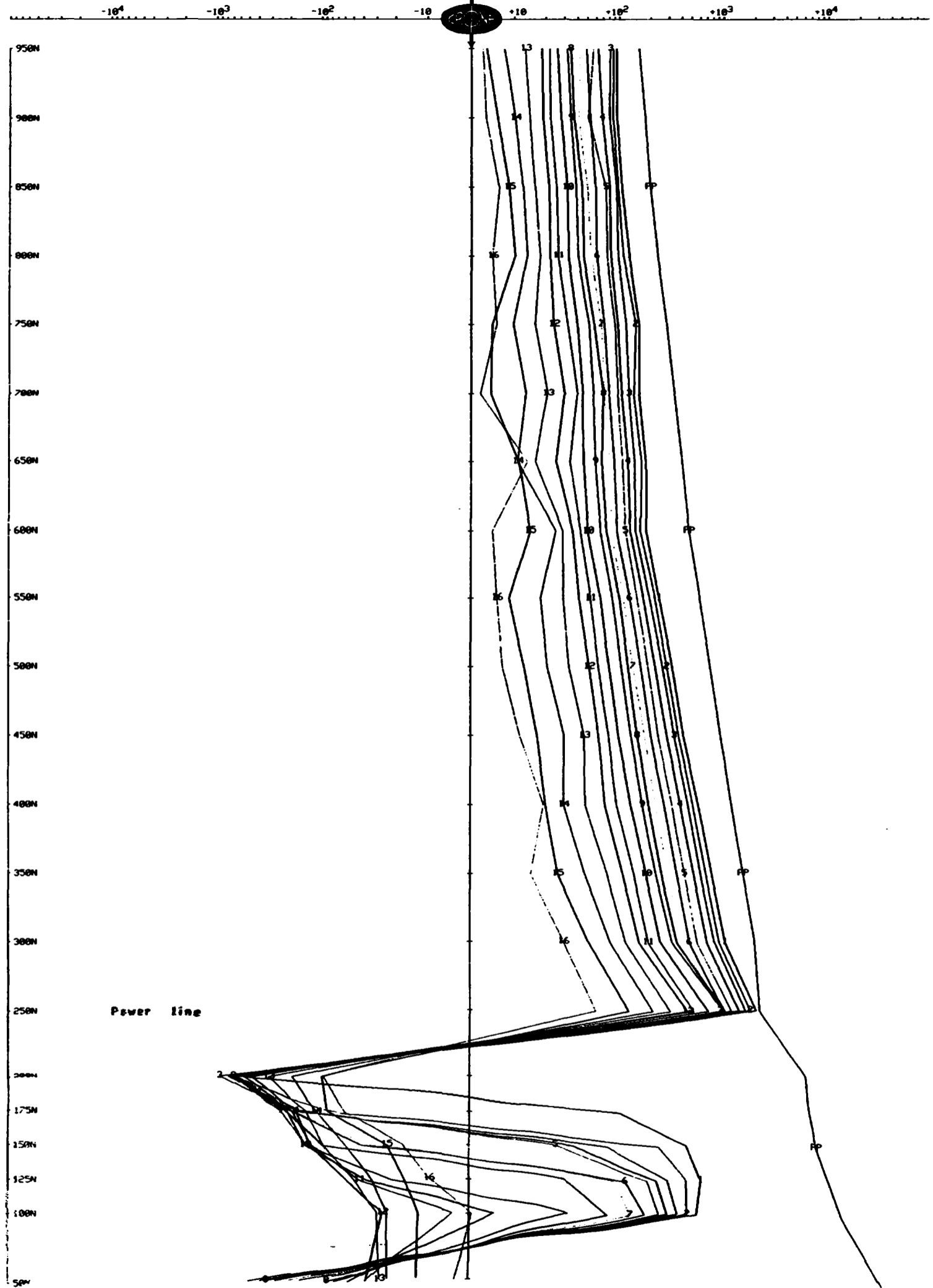
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 15, 1995

Line : 400W  
Tx Loop : 1  
File name : L400WT1.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



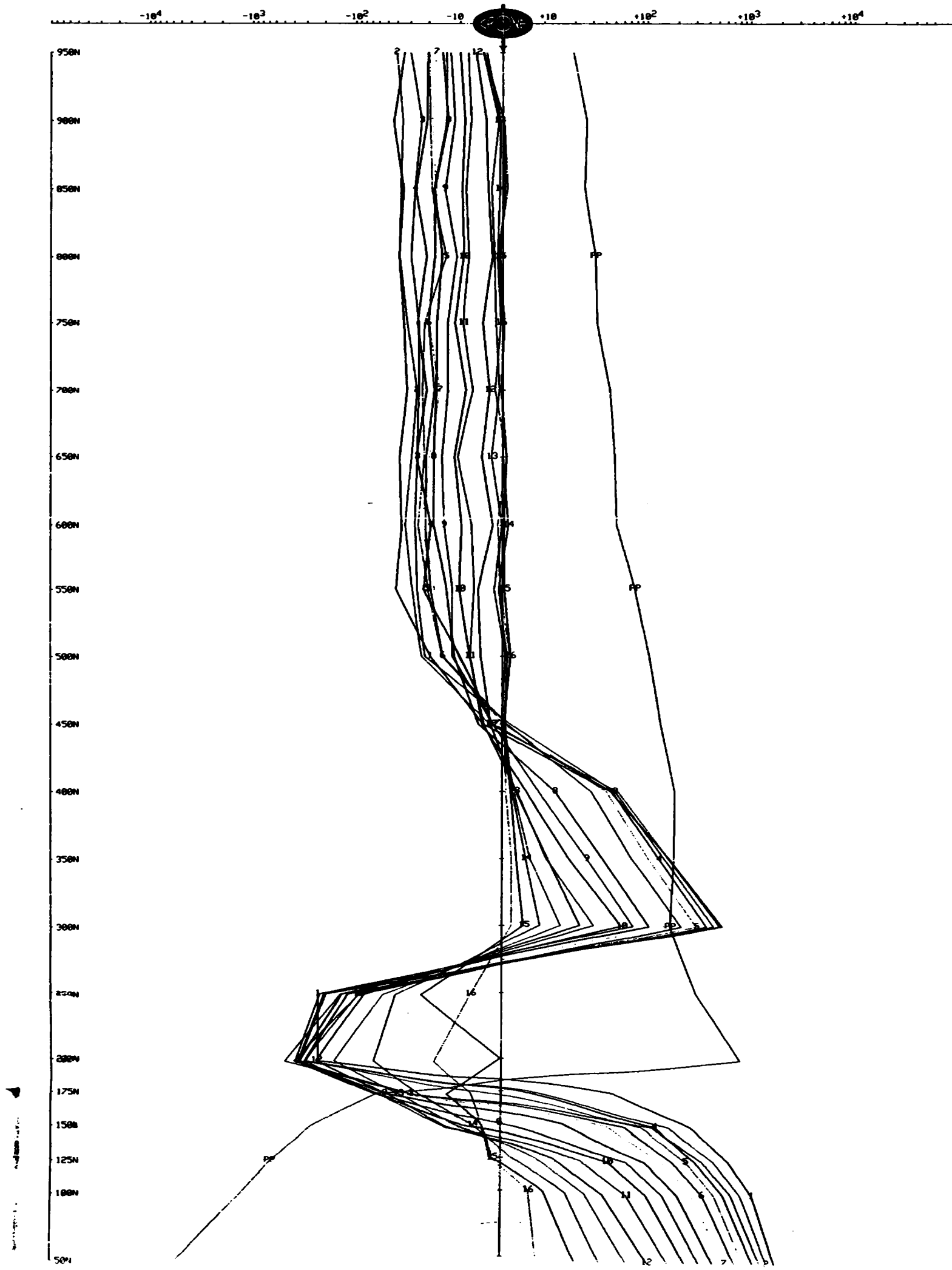
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 15, 1995

Line : 400W  
Tx Loop : 1  
File name : L400WT1.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500





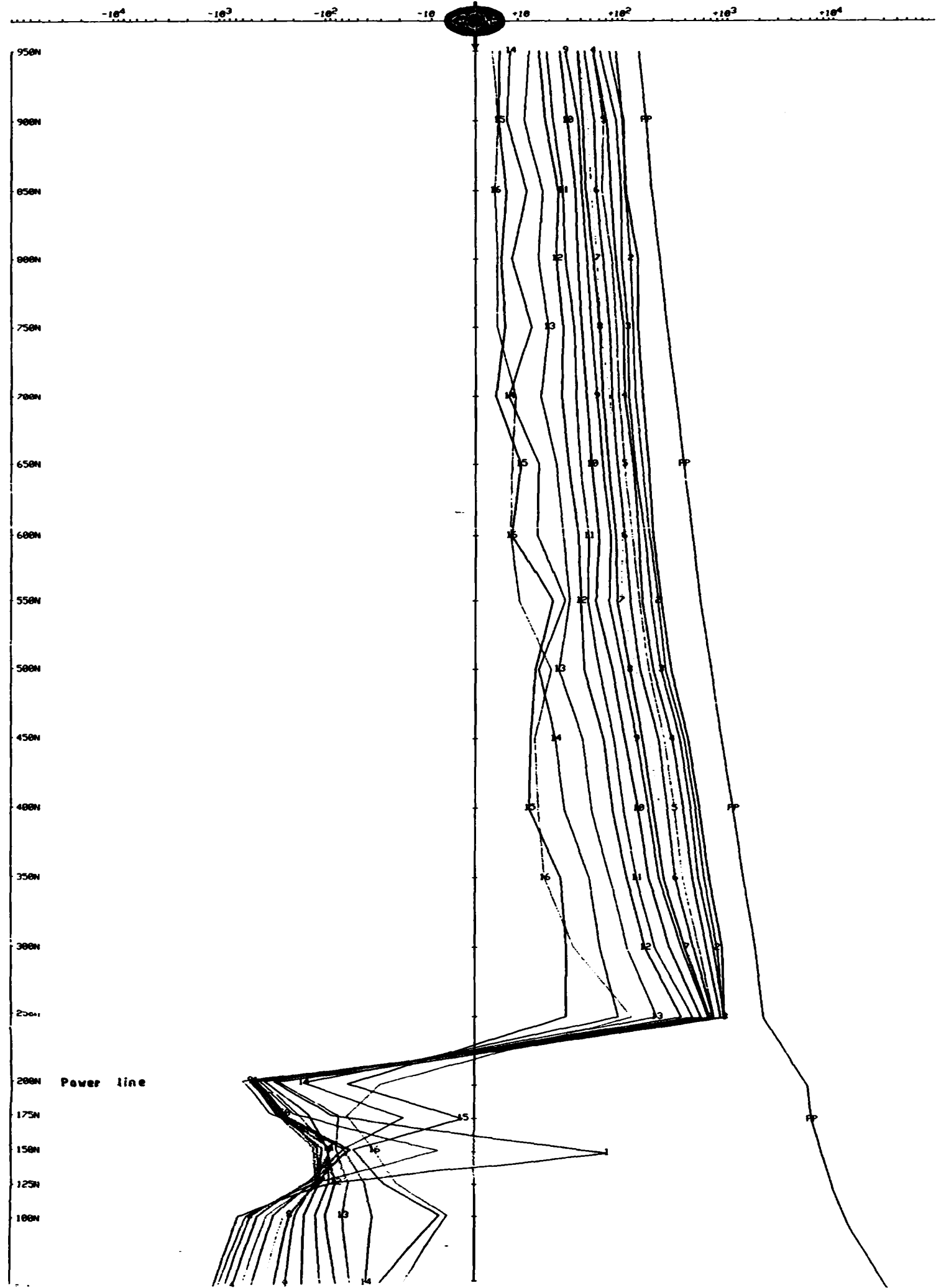
CRONE GEOPHYSICS & EXPLORATION LTD  
VAL D'OR GEOPHYSIQUE LTEE  
SURFACE PEM

Client : FALCONBRIDGE  
Grid : SASSLAKE  
Date : Mar 15, 1995

Line : 300W  
Tx Loop : 1  
File name : L300WT1.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

Scale: 1:2500



Report of Work Conducted After Recording Claim

Mining Act

Transaction Number  
W9580-00779

Res. Steel Cobalt

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.16290

- Instructions:
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for Recorder.
  - A separate copy of this form must be complete.
  - Technical reports and maps must accompany.
  - A sketch, showing the claims the work is assessed on.



900

Recorded Holder(s) <i>Falconbridge Limited MSJ 214</i>	Client No. <i>130679</i>
Address <i>Suite 1200, 95 Wellington St. W. Toronto</i>	Telephone No. <i>(705) 855-0311</i>
Mining Division <i>Larder Lake</i>	Township/Area <i>Coleman</i>
M or G Plan No.	
Dates Work Performed From: <i>March 10 1995</i> To: <i>March 19 1995</i>	

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<i>Geophysical report (Deep Em + Mag)</i>
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	<b>SECTION 18 ONLY</b>
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ 16,829.00

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
<i>Gregg Snyder</i>	<i>Falconbridge Exploration (Address below)</i>
<i>Val Dor Geophysic</i>	<i>50 boul Lamague Val Dor Quebec</i>

(attach a schedule if necessary)

Certification of Beneficial Interest \* See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <i>Nov 30/95</i>	Recorder/Holder or Agent (Signature) <i>[Signature]</i>
--	--------------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying <i>Gregg Snyder 1977 McKenzie Rd. RR #2 Chelmsford ON.</i>		
Telephone No. <i>(705) 855-0311</i>	Date <i>Nov 30/95</i>	Certified By (Signature) <i>[Signature]</i>

For Office Use Only

Total Value Cr. Recorded	Date Recorded <i>Dec 5/95</i>	ACTING Mining Recorder <i>[Signature]</i>	RECEIVED LARDER LAKE MINING DIVISION  DEC 5 1995
	Deemed Approval Date <i>March 4/96</i>	Date Approved <i>[Signature]</i>	
	Date Notice for Amendments Sent		



Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1135997	1
	1135998	1
	1179104	1
	1179123	1
	1179124	2
	1186049	2
	1186050	1
	1186051	1
	1186052	1
	1198574	1
<b>Total Number of Claims</b>		<b>12</b>

Value of Assessment Work Done on this Claim	Value Applied to this Claim
601	291
601	601
601	400
601	400
601	400
601	400
601	400
601	400
601	400
601	400
601	400
<b>Total Value Work Done</b>	<b>Total Value Work Applied</b>
\$ 606.00	\$ 606.00

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
320	
201	
201	
201	
201	
201	
201	
201	
201	
201	
201	
<b>Total Assigned From</b>	<b>Total Reserve</b>
\$ 1526.00	

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 DEC - 8 1995  
 MINING LANDS DIVISION

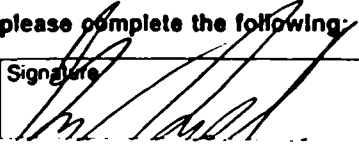
Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature 	Date Nov 30/95
---	--	-------------------

CREDIT FORM

FEBRUARY 20, 1996  
OUR FILE: 2.16290  
TRANSACTION #:W.9580.00779

CLAIM NUMBER	VALUE OF WORK PERFORMED ON CLAIM
L. 1118432	804
1118433	800
1118434	800
1135884	800
1135885	800
1135886	800
1135887	800
1135984	800
1135985	800
1135986	800
1135987	165
1135988	800
1135989	800
1135990	800
1135991	800
1135992	165
1135995	165
1135997	165
1135998	165
1179104	800
1179123	800
1179124	800
1186049	800
1186050	800
1186051	0
1186052	0
1198574	800
	<u>800</u>
	16,829



Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Geoscience Approvals Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (705) 670-5853  
Fax: (705) 670-5863

February 20, 1996

Our File: 2.16290  
Transaction #: W9580.00779

Mining Recorder  
Ministry of Northern Development & Mines  
4 Government Road East  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS  
L.1118432 ET AL IN COLEMAN TOWNSHIP**

Assessment work credits have been approved as outlined on the attached credit form. Note that the credits have been rearranged to more closely reflect where the work was done.

The credits have been approved under Section 14, Geophysics (Mag & EM), Mining Act Regulations.

**The approval date is February 19, 1996.**

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5858.

Yours Sincerely,  
ORIGINAL SIGNED BY:

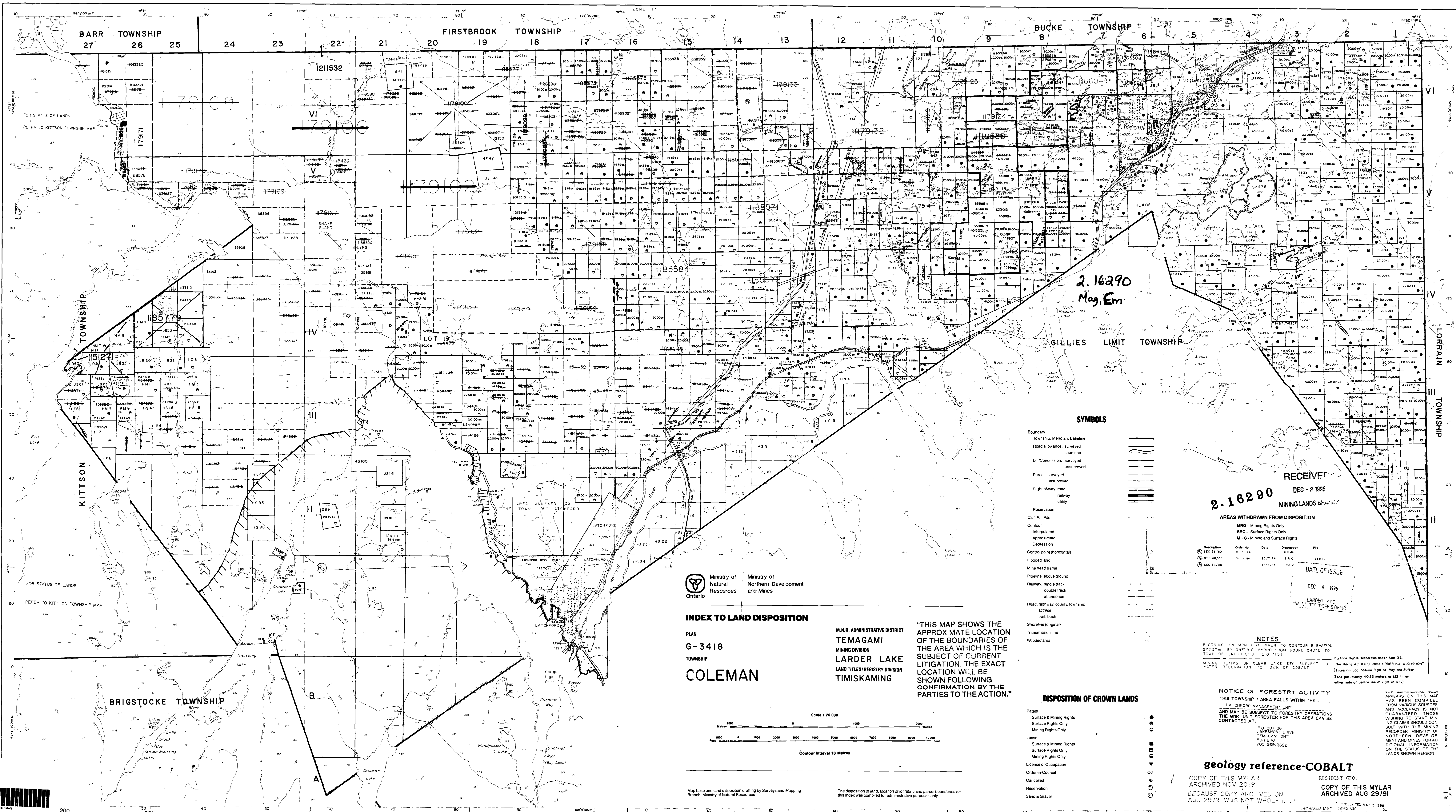
A handwritten signature in cursive script, appearing to read "Ron C. Gashinski".

Ron C. Gashinski  
Senior Manager, Mining Lands Section  
Mining and Land Management Branch  
Mines and Minerals Division

LJ/JL  
Enclosure:

cc: Resident Geologist  
Cobalt, Ontario

✓ Assessment Files Library  
Sudbury, Ontario



4-8  
COLEMAN TWP

FOR STATUS OF LANDS  
REFER TO KITSON TOWNSHIP MAP

FOR STATUS OF LANDS  
REFER TO KITSON TOWNSHIP MAP

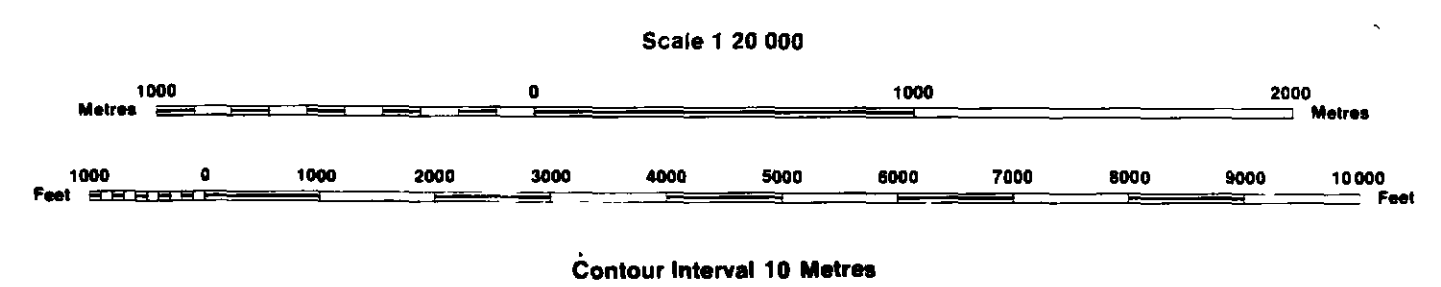
Ministry of Natural Resources  
 Ministry of Northern Development and Mines

**INDEX TO LAND DISPOSITION**

PLAN  
**G-3418**  
 TOWNSHIP  
**COLEMAN**

M.N.R. ADMINISTRATIVE DISTRICT  
**TEMAGAMI**  
 MINING DIVISION  
**LARDER LAKE**  
 LAND TITLES/REGISTRY DIVISION  
**TIMISKAMING**

"THIS MAP SHOWS THE APPROXIMATE LOCATION OF THE BOUNDARIES OF THE AREA WHICH IS THE SUBJECT OF CURRENT LITIGATION. THE EXACT LOCATION WILL BE SHOWN FOLLOWING CONFIRMATION BY THE PARTIES TO THE ACTION."



Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only

**SYMBOLS**

- Boundary
- Township, Meridian, Baseline
- Road allowance, surveyed
- shoreline
- Lot/Concession, surveyed
- unsurveyed
- Parcel: surveyed
- unsurveyed
- Right-of-way, road
- railway
- utility
- Reservation
- Chit, Pit, Pile
- Contour
- Interpolated
- Approximate
- Depression
- Control point (horizontal)
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway, single track
- double track
- abandoned
- Road, highway, county, township
- access
- trail, bush
- Shoreline (original)
- Transmission line
- Wooded area
- 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
- Cancelled
- Reservation
- Sand & Gravel

**2.16290**  
 Mag. Em  
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 DEC - R 1995  
 MINING LANDS DIVISION

**AREAS WITHDRAWN FROM DISPOSITION**

Description	Order No.	Date	Disposition	File
SEC 36/80	A 4' 80		S.R.O.	188540
SEC 36/80	W / 84	23/7/84	S.R.O.	
SEC 36/80		16/3/84	S.R.O.	

DATE OF ISSUE  
DEC 6 1995

**NOTES**  
 FLOODING ON MONTREAL RIVER TO CONTOUR ELEVATION 277.37M BY ONTARIO HYDRO FROM ROUND CHUTE TO TOWN OF LATCHFORD L.O. 7151  
 MINING CLAIMS ON CLEAR LAKE ETC. SUBJECT TO "WATER RESERVATION TO TOWN OF COBALT"  
 (Trans Concess. Patent Right of Way and Buffer Zone particularly 40.25 meters or 132 ft on either side of centre line of right of way)

**NOTICE OF FORESTRY ACTIVITY**  
 THIS TOWNSHIP / AREA FALLS WITHIN THE "LATCHFORD MANAGEMENT" UNIT  
 AND MAY BE SUBJECT TO FORESTRY OPERATIONS  
 THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT:  
 P.O. BOX 38  
 LAKESHORE DRIVE  
 TEMAGAMI, ONT.  
 P0H 2V0  
 705-569-3622

**geology reference-COBALT**  
 COPY OF THIS MYLAR ARCHIVED NOV 20/91  
 BECAUSE COPY ARCHIVED ON AUG 29/91 WAS NOT WHOLE MAP

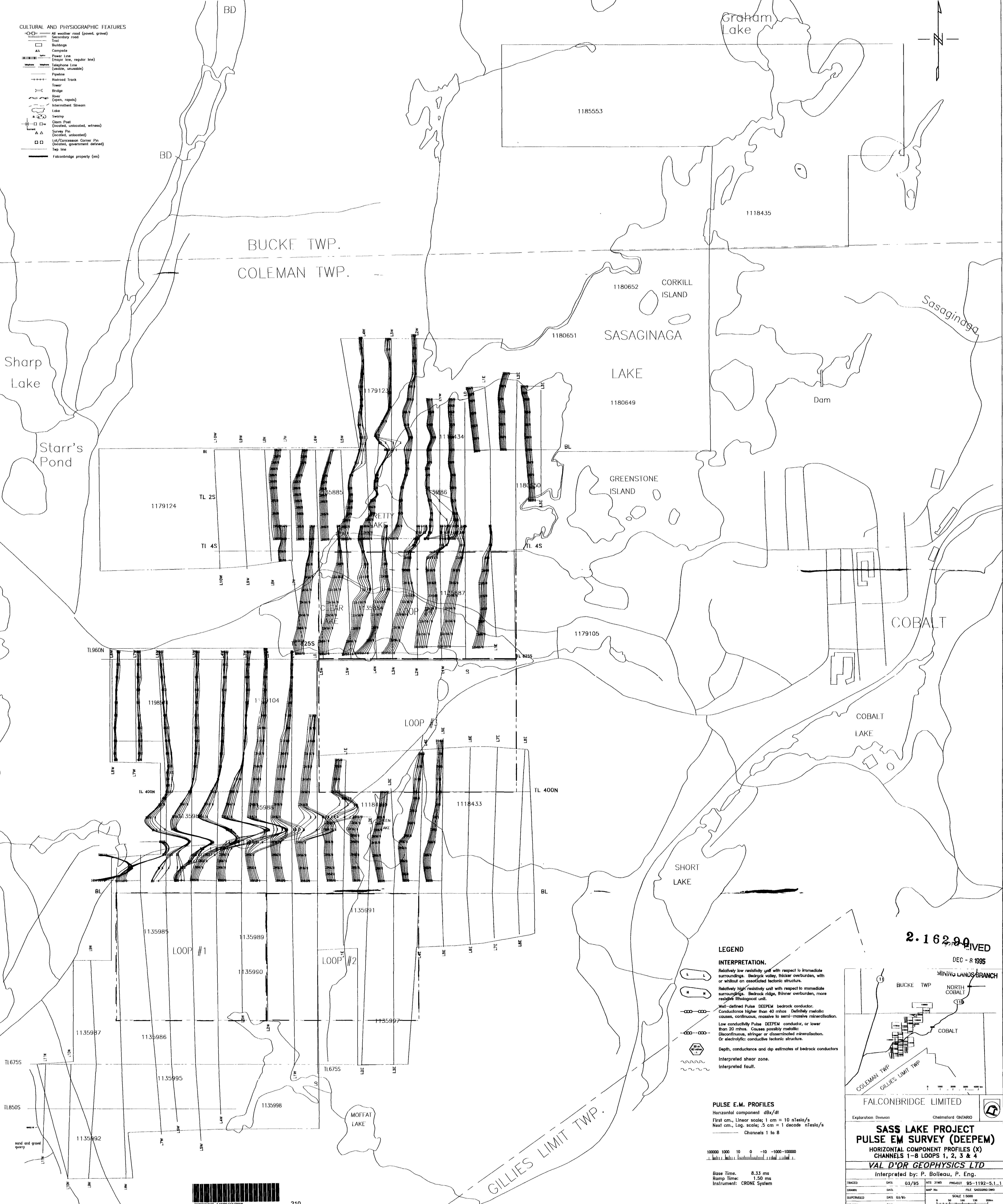
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE DESIRING TO STATE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDS DIVISION OF THE MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

RESIDENT P.O.  
 COPY OF THIS MYLAR ARCHIVED AUG 29/91  
 ARCHIVED MAY 1995 CM  
 ARCHIVED ON JUNE 9 1995



CULTURAL AND PHYSIOGRAPHIC FEATURES

- All weather road (paved, gravel)
- Secondary road
- Buildings
- △ Campsite
- Power Line
- (single line, regular line)
- Telephone Line (usable, unusable)
- Pipeline
- Railroad Track
- Tower
- Bridge
- River (open, rapids)
- Intermittent Stream
- Lake
- Swamp
- Claim Post (located, unlocated, witness)
- Survey Pin (located, unlocated)
- 1/4/6/Section Corner Pin (located, government defined)
- Tap line
- Falconbridge property (ms)



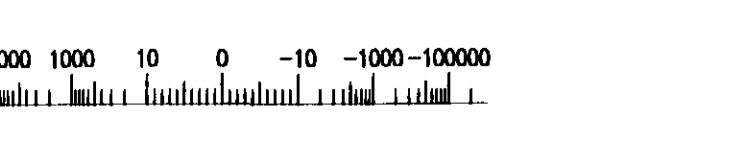
LEGEND

INTERPRETATION.

- Relatively low resistivity unit with respect to immediate surroundings. Bedrock valley, thicker overburden, with or without an associated tectonic structure.
- Relatively high resistivity unit with respect to immediate surroundings. Bedrock ridge, thinner overburden, more resistive lithological unit.
- Well-defined Pulse DEEPM bedrock conductor.
- Conductance higher than 40 mhos. Definitely metallic causes, continuous, massive to semi-massive mineralisation.
- Low conductivity Pulse DEEPM conductor, or lower than 20 mhos. Causes possibly metallic: Discontinuous, stringer or disseminated mineralisation. Or electrolytic conductive tectonic structures.
- Depth, conductance and dip estimates of bedrock conductors
- Interpreted shear zone.
- Interpreted fault.

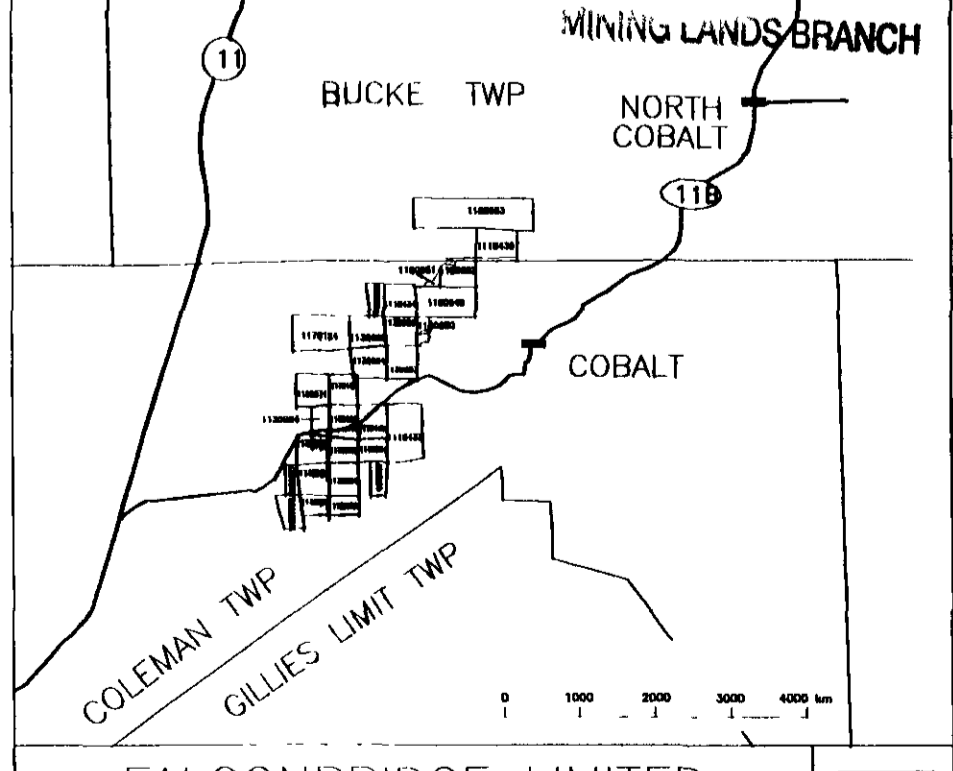
PULSE E.M. PROFILES

Horizontal component dBx/dt  
 First cm., Linear scale; 1 cm = 10 nTesla/s  
 Next cm., Log. scale; 5 cm = 1 decade nTesla/s  
 Channels 1 to 8



Base Time: 8.33 ms  
 Ramp Time: 1.50 ms  
 Instrument: CRONE System

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FALCONBRIDGE LIMITED  
 Exploration Division Chelmsford ONTARIO

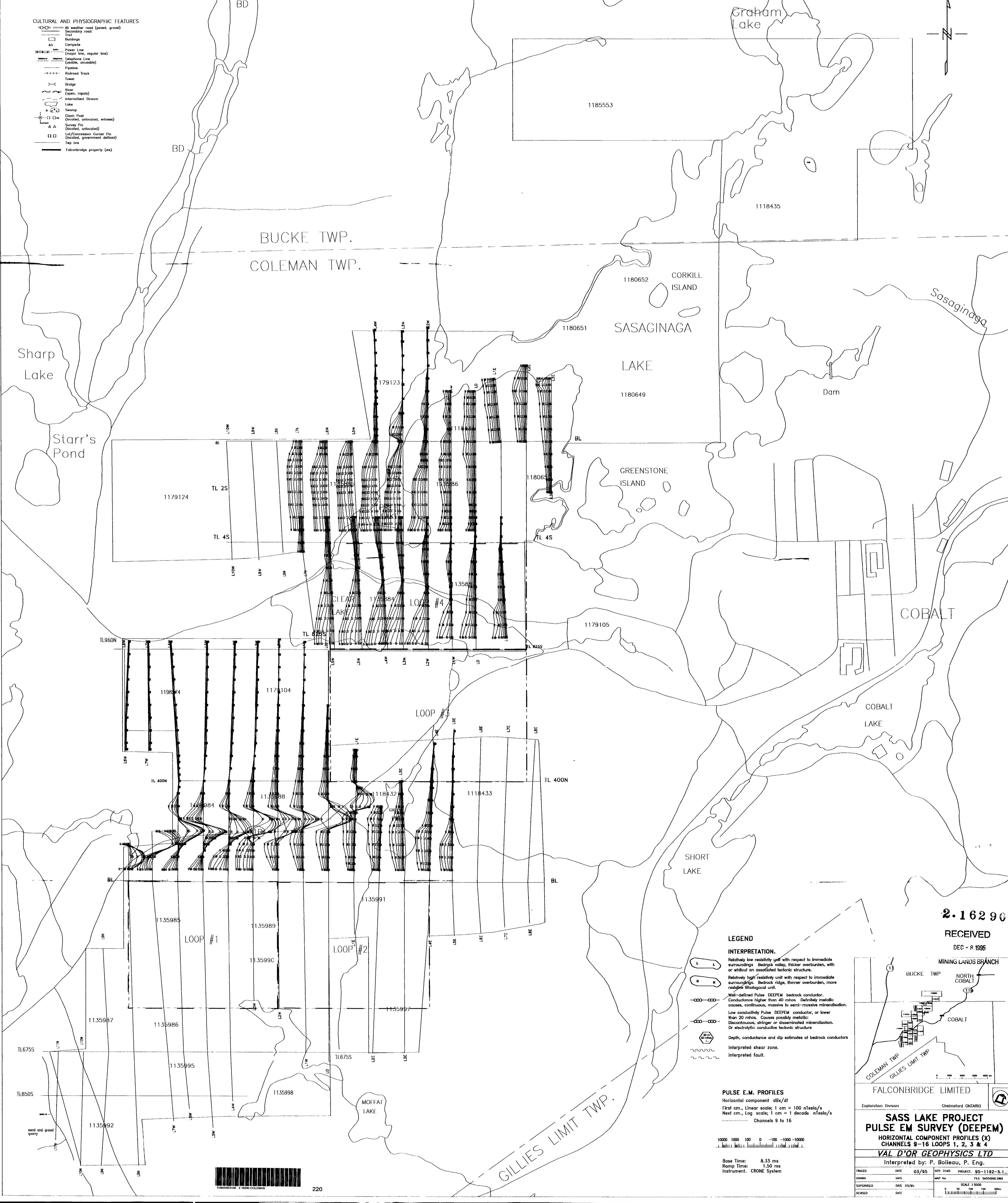
**SASS LAKE PROJECT**  
**PULSE EM SURVEY (DEEPM)**  
 HORIZONTAL COMPONENT PROFILES (X)  
 CHANNELS 1-8 LOOPS 1, 2, 3 & 4  
**VAL D'OR GEOPHYSICS LTD**  
 Interpreted by: P. Boileau, P. Eng.

TRACED	DATE	03/95	NTS 3140	PROJECT	95-1192-5.1-1
DRAWN	DATE		MAP No	FILE	SASSGRO DWO
SUPERVISED	DATE	03/95		SCALE	1:5000
REVISED	DATE				



CULTURAL AND PHYSIOGRAPHIC FEATURES

- ○ = All weather road (paved, gravel)
- = Secondary road
- = Trail
- = Buildings
- △ = Campsite
- = Power Line (major line, regular line)
- = Telephone Line (usable, unusable)
- = Pipeline
- = Railroad Track
- = Tower
- = Bridge
- = River (open, rapids)
- = Intermittent Stream
- = Lake
- = Swamp
- = Claim Post (located, unlocated, witness)
- = Survey Pin (located, unlocated)
- = Lot/Concession Corner Pin (located, government defined)
- = Tap line
- = Falconbridge property (es)



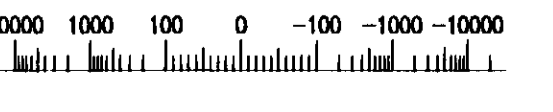
LEGEND

INTERPRETATION.

- (C) — Relatively low resistivity unit with respect to immediate surroundings. Bedrock valley, thicker overburden, with or without an associated tectonic structure.
- (H) — Relatively high resistivity unit with respect to immediate surroundings. Bedrock ridge, thinner overburden, more resistive lithological unit.
- (W) — Well-defined Pulse DEEPM bedrock conductor. Conductance higher than 40 mhos. Definitely metallic causes, continuous, massive to semi-massive mineralisation.
- (L) — Low conductivity Pulse DEEPM conductor, or lower than 20 mhos. Causes possibly metallic.
- (D) — Discontinuous, stringer or disseminated mineralisation. Or electrolytic: conductive tectonic structure.
- (DIP) — Depth, conductance and dip estimates of bedrock conductors
- (S) — Interpreted shear zone.
- (F) — Interpreted fault.

PULSE E.M. PROFILES

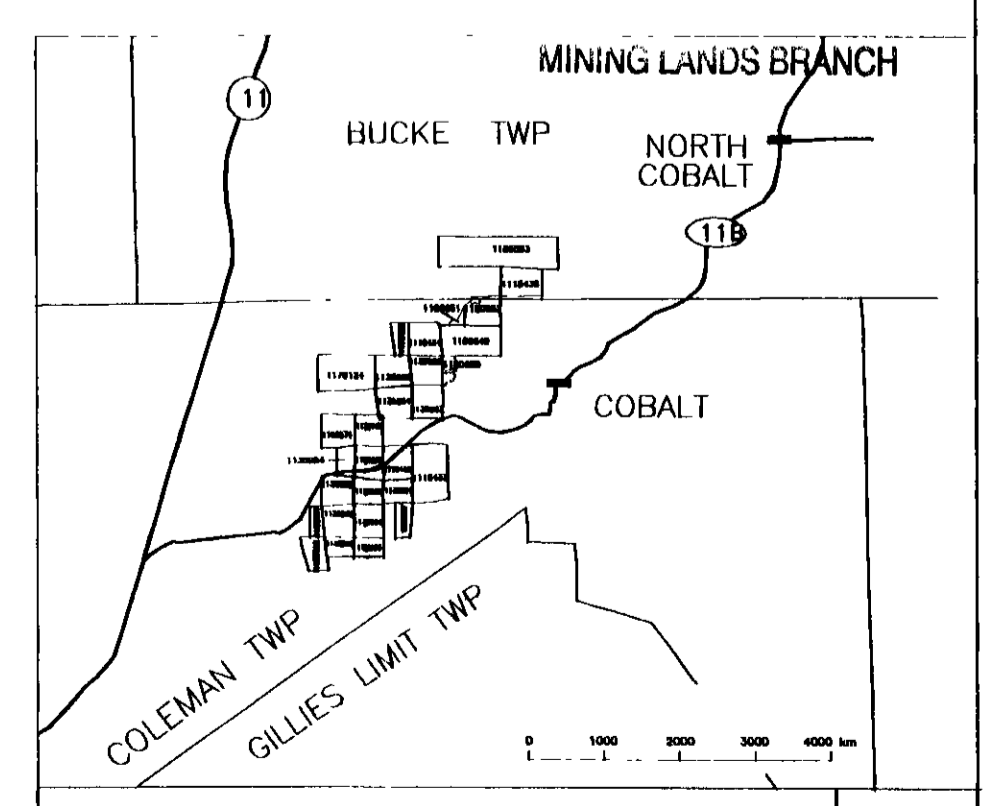
Horizontal component dBx/dt  
 First cm., Linear scale; 1 cm = 100 nTesla/s  
 Next cm., Log scale; 1 cm = 1 decade nTesla/s  
 Channels 9 to 16



Base Time: 8.33 ms  
 Ramp Time: 1.50 ms  
 Instrument: CRONE System

2.16290

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FALCONBRIDGE LIMITED

Exploration Division Chelmsford ONTARIO

**SASS LAKE PROJECT**  
**HORIZONTAL COMPONENT PROFILES (X)**  
**CHANNELS 9-16 LOOPS 1, 2, 3 & 4**

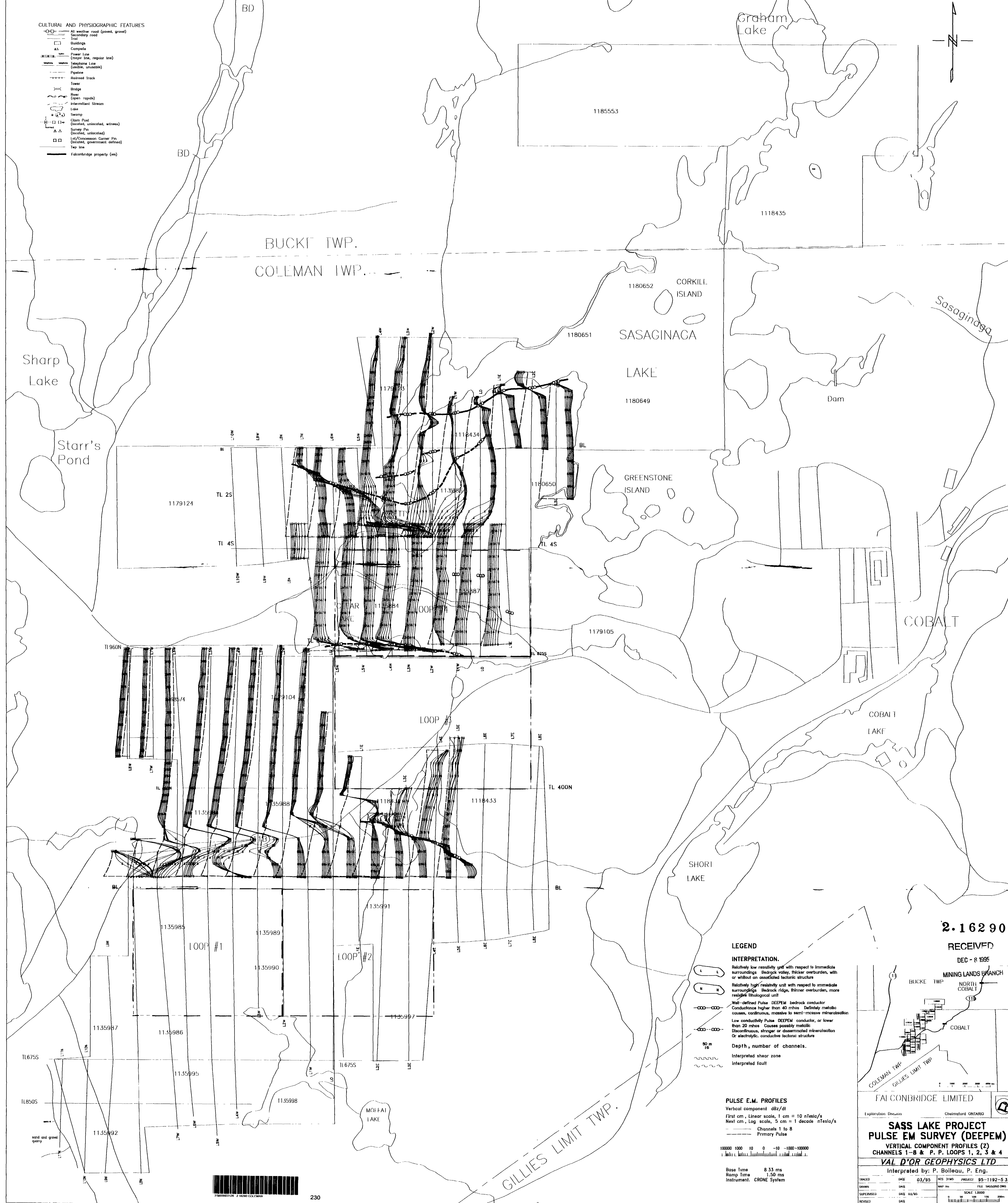
VAL D'OR GEOPHYSICS LTD  
 Interpreted by: P. Boileau, P. Eng.

TRACED	DATE	03/95	NTF 31MS	PROJECT	95-1192-5.1.2
DRAWN	DATE		MAP No.	FILE	SASSSDR.DWG
SUPERSEDED	DATE	03/95	SCALE	1:5000	
REVISED	DATE				



CULTURAL AND PHYSIOGRAPHIC FEATURES

- All weather road (paved, gravel)
- Secondary road
- Trail
- Buildings
- Compote
- Power Line (single line, regular line)
- Telephone Line (dashed, unisolate)
- Pipeline
- Railroad Track
- Tower
- Storage
- River (open rapids)
- Intermittent Stream
- Lake
- Swamp
- Claim Post (located, unisolated, witness)
- Survey Pin (located, unisolated)
- Lot/Concession Corner Pin (located, government defined)
- Top line
- Falconbridge property (m)



LEGEND

- INTERPRETATION.**
- Relatively low resistivity unit with respect to immediate surroundings. Bedrock valley, thicker overburden, with or without an associated tectonic structure.
  - Relatively high resistivity unit with respect to immediate surroundings. Bedrock ridge, thinner overburden, more resistive lithological unit.
  - Well-defined Pulse DEEPEM bedrock conductor. Conductance higher than 40 mhos. Definitely metallic causes, continuous, massive to semi-massive mineralization.
  - Low conductivity Pulse DEEPEM conductor, or lower than 20 mhos. Causes possibly metallic. Discontinuous, stringer or disseminated mineralization. Or electrolytic, conductive tectonic structure.
  - Depth, number of channels.
  - Interpreted shear zone.
  - Interpreted fault.

PULSE E.M. PROFILES

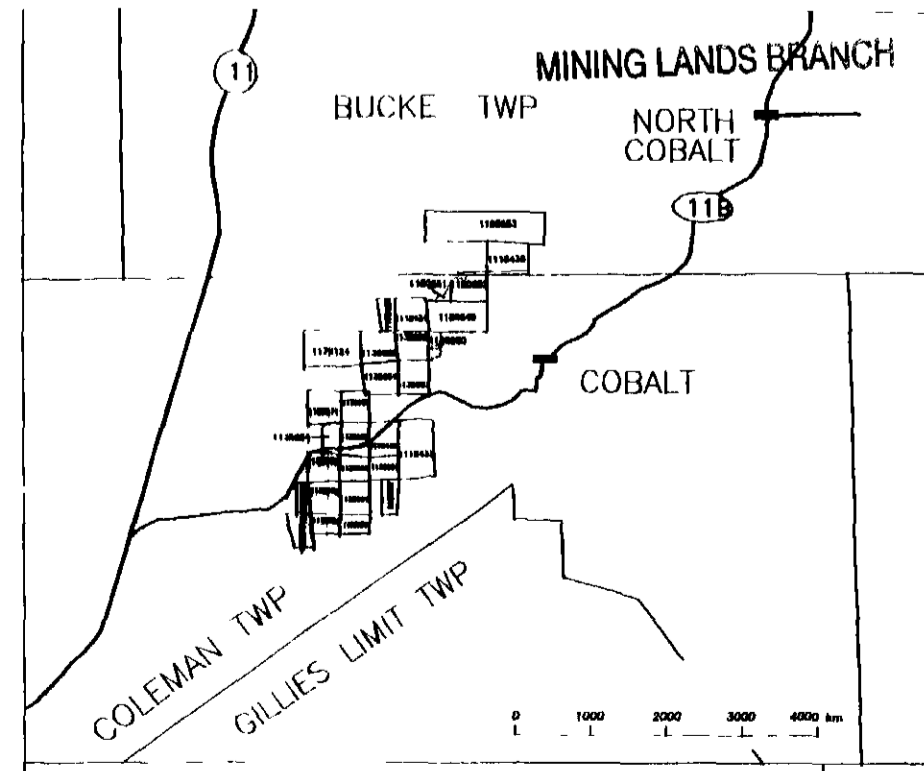
Vertical component dBz/dt  
 First cm, Linear scale, 1 cm = 10 nTesla/s  
 Next cm, Log scale, 5 cm = 1 decade nTesla/s  
 Channels 1 to 8  
 Primary Pulse

100000 1000 10 0 -10 -1000 -100000

Base Time 8.33 ms  
 Ramp Time 1.50 ms  
 Instrument CRONE System

2.16290

RECEIVED  
 DEC - 8 1995



FAI CONBRIDGE LIMITED  
 Exploration Division CHEMINOR ONTARIO

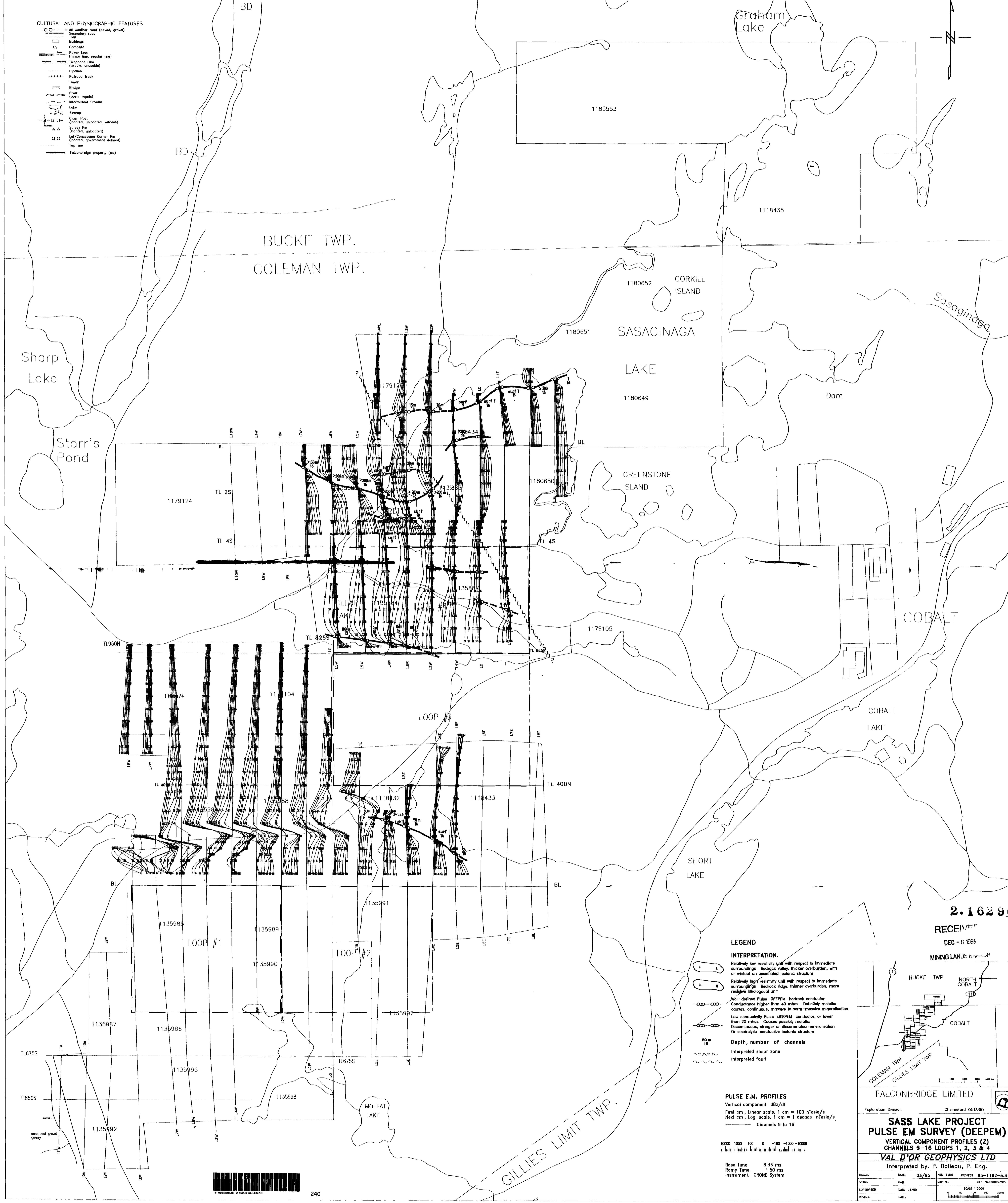
**SASS LAKE PROJECT**  
**PULSE EM SURVEY (DEEPEM)**  
 VERTICAL COMPONENT PROFILES (Z)  
 CHANNELS 1-8 & P. P. LOOPS 1, 2, 3 & 4  
**VAL D'OR GEOPHYSICS LTD**  
 Interpreted by: P. Boileau, P. Eng.

INDEXED	DATE	03/95	SYS 3100	PROJECT	95-1192-5-3.1
DRAWN	DATE		MAP No.		FILE BACKGROUND DWS
SUPERSEDED	DATE	04/95	SCALE	1:5000	
REVISED	DATE				



**CULTURAL AND PHYSIOGRAPHIC FEATURES**

- All weather road (paved, gravel)
- Secondary road
- Trail
- Buildings
- AS Concrete
- Power Line (major line, regular line)
- Telephone Line (enclosed, unenclosed)
- Pipeline
- ++++ Railroad Track
- Tower
- Bridge
- River (open rapids)
- Intermittent Stream
- Lake
- Swamp
- Claim Pin (located, unlocated, witness)
- Survey Pin (located, unlocated)
- Lot/Concession Corner Pin (located, government defined)
- Tap line
- Falconbridge property (ms)



**LEGEND**

**INTERPRETATION.**

- Relatively low resistivity unit with respect to immediate surroundings. Bedrock valley, thicker overburden, with or without an associated tectonic structure
- Relatively high resistivity unit with respect to immediate surroundings. Bedrock ridge, thinner overburden, more resistive lithological unit
- Well-defined Pulse DEEPEM bedrock conductor. Conductance higher than 40 mhos. Definitely metallic causes, continuous, massive to semi-massive mineralization
- Low conductivity Pulse DEEPEM conductor, or lower than 20 mhos. Causes possibly metallic. Discontinuous, stringer or disseminated mineralization. Or electrolytic conductive tectonic structure
- 50 m  
16 Depth, number of channels
- Interpreted shear zone
- Interpreted fault

**PULSE E.M. PROFILES**

Vertical component dBz/dt  
 First cm, Linear scale, 1 cm = 100 nTesla/s  
 Next cm, Log scale, 1 cm = 1 decade nTesla/s  
 Channels 9 to 16

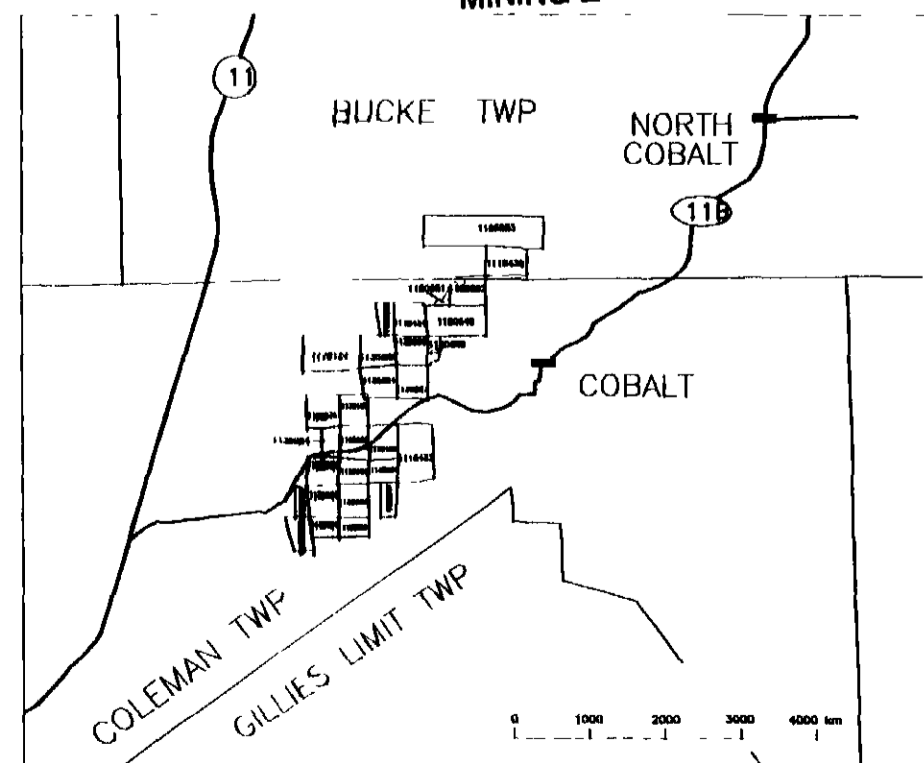
10000 1000 100 0 -100 -1000 -10000

Base Time. 8.33 ms  
 Ramp Time. 1.50 ms  
 Instrument. CRONE System

2.16290

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 DEC - 8 1995

MINING LANDS DIVISION



FALCONBRIDGE LIMITED

Exploration Division Chetumford ONTARIO

**SASS LAKE PROJECT**

**PULSE EM SURVEY (DEEPEM)**

VERTICAL COMPONENT PROFILES (2)

CHANNELS 9-16 LOOPS 1, 2, 3 & 4

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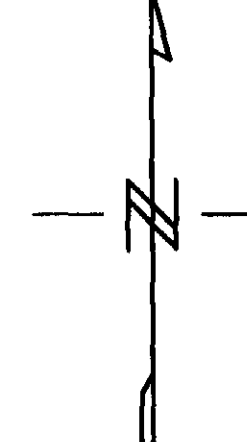
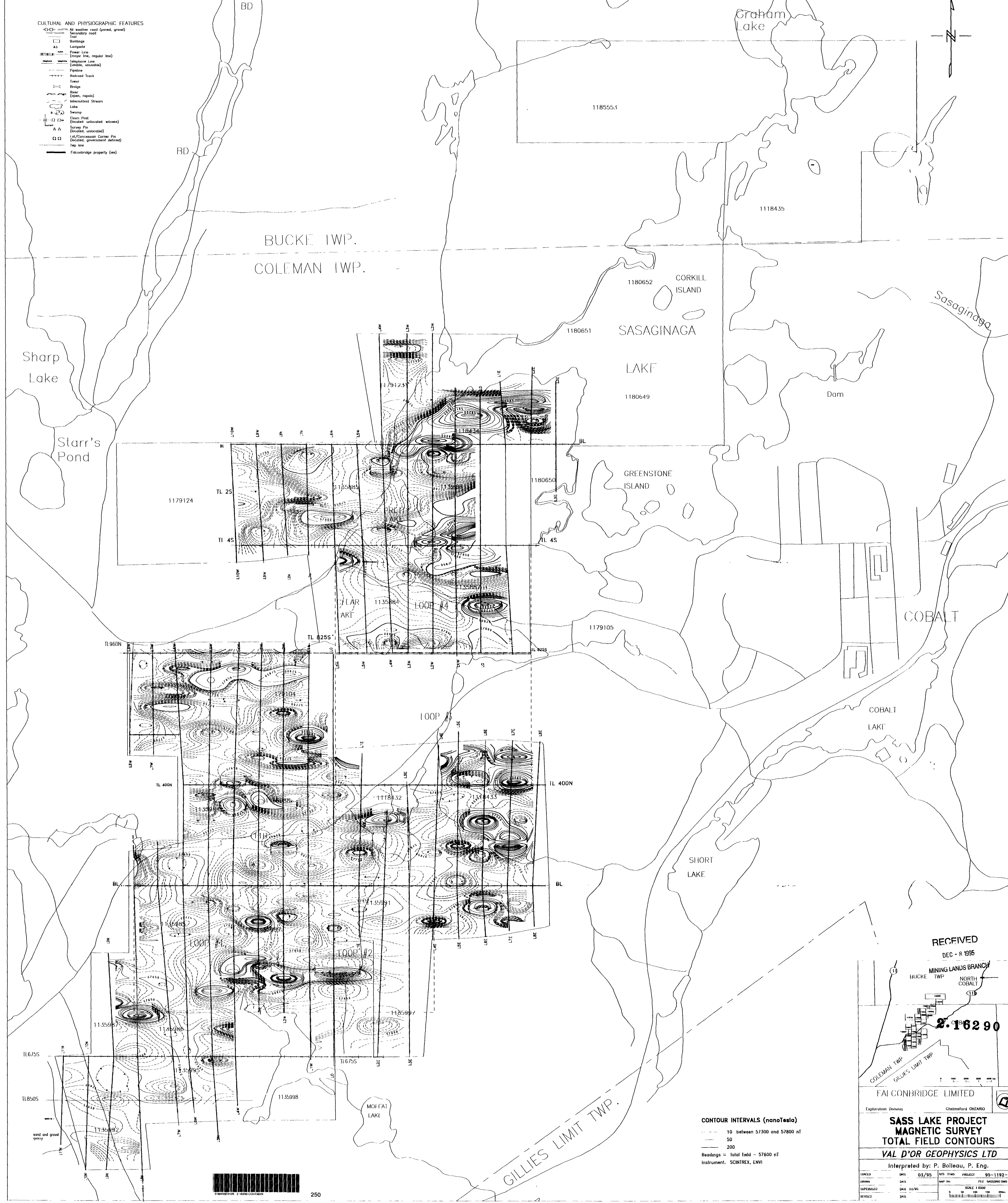
Interpreted by: P. Boileau, P. Eng.

TRACED	DATE	03/95	NTS 31MS	PROJECT	95-1192-5.3.2
DRAWN	DATE		MAP No	FILE	SASSORIO.DWG
SUPERVISED	DATE	04/95			
REVISED	DATE				



CULTURAL AND PHYSIOGRAPHIC FEATURES

- All weather road (paved, gravel)
- Secondary road
- Tram
- Buildings
- Contour
- Power Line (major line, regular line)
- Telephone Line (cable, unshielded)
- Pipeline
- Railroad Track
- Trestle
- Bridge
- River (open, regular)
- Intermittent Stream
- Lake
- Swamp
- Chain Post (located, unlocated witness)
- Survey Pin (located, unlocated)
- Lot/Concession Corner Pin (located, government defined)
- Top line
- Falconbridge property (see)



**CONTOUR INTERVALS (nanoTesla)**  
 --- 10 between 57300 and 57800 nT  
 --- 50  
 --- 200  
 Readings = total field - 57600 nT  
 Instrument: SCINTREX, ENVI

**RECEIVED**  
DEC - 8 1995

MINING LANDS BRANCH  
BUCKLE TWP NORTH  
COBALT

**2-16290**

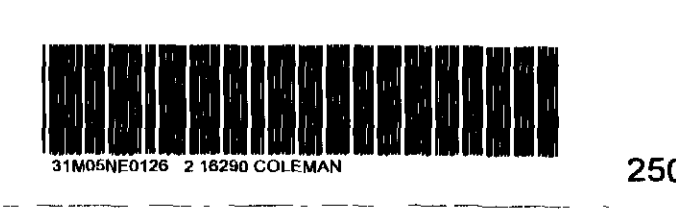
COLEMAN TWP  
GILLIES LIMIT TWP

**FALCONBRIDGE LIMITED**  
Exploration Division Chelmsford ONTARIO

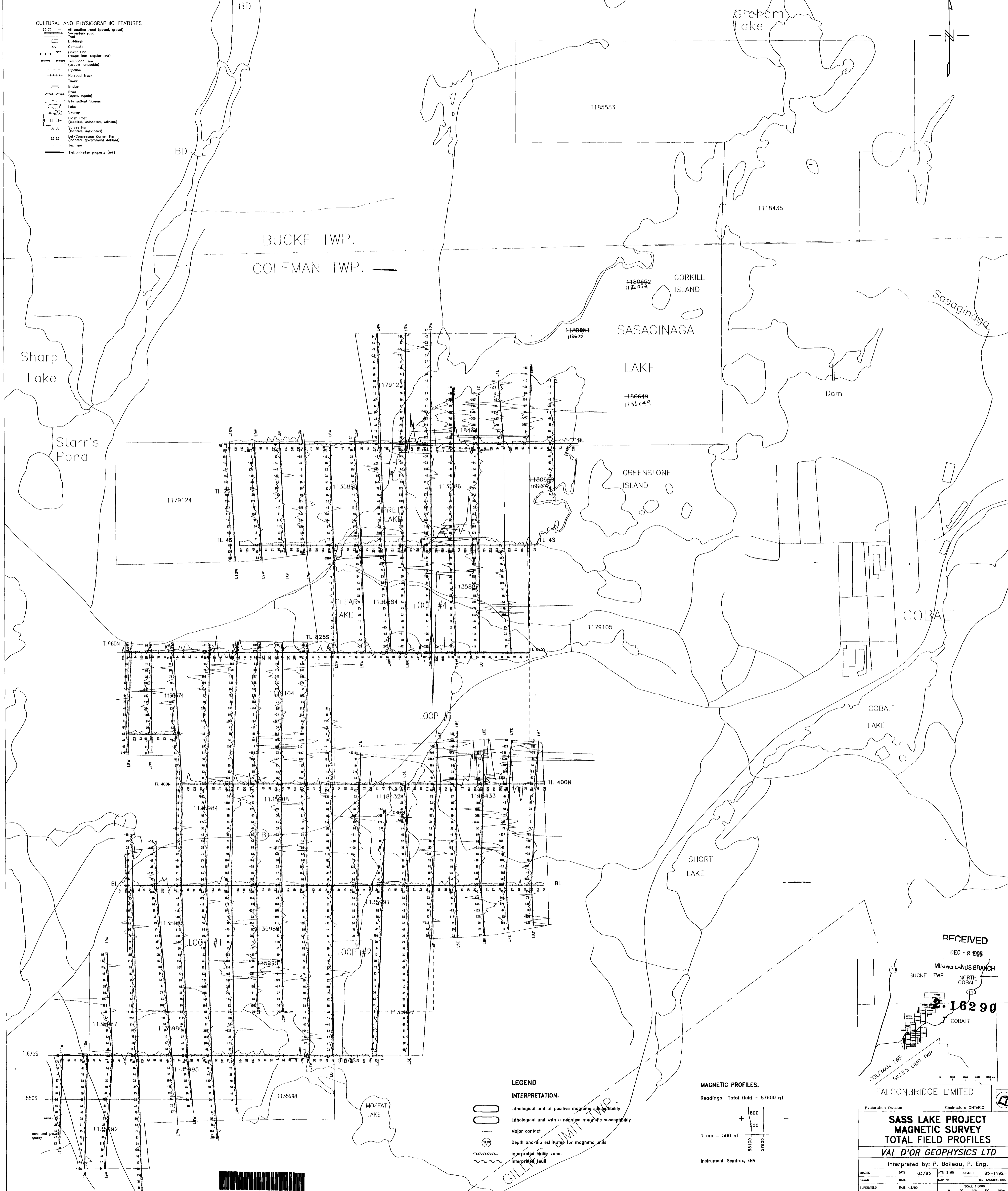
**SASS LAKE PROJECT  
MAGNETIC SURVEY  
TOTAL FIELD CONTOURS  
VAL D'OR GEOPHYSICS LTD**

Interpreted by: P. Boileau, P. Eng.

TRACED	DATE	03/95	NTS STMS	PROJECT	95-1192
DRAWN	DATE		MAP No	FILE	SASAGINAGA DND
SUPERVISED	DATE	03/95	SCALE	1:6000	
REVISED	DATE				



- CULTURAL AND PHYSIOGRAPHIC FEATURES**
- All weather road (paved, gravel)
  - Secondary road
  - Foot
  - Buildings
  - Campsite
  - Power line (major line regular line)
  - Telephone Line (encircle structure)
  - Pipeline
  - Railroad Track
  - Tower
  - Bridge
  - River (open, rapids)
  - Intermittent Stream
  - Lake
  - Swamp
  - Clear Patch (located, unlocated, witness)
  - Survey Pin (located, unlocated)
  - Lot/Concession Corner Pin (located, government defined)
  - Tap line
  - Falcobridge property (see)



- LEGEND**
- INTERPRETATION.**
- Lithological unit of positive magnetic susceptibility
  - - - Lithological unit with a negative magnetic susceptibility
  - · · Major contact
  - Depth and dip estimates for magnetic units
  - ▨ Interpreted shear zone.
  - ~ Interpreted fault

**MAGNETIC PROFILES.**

Readings: Total field - 57600 nT

1 cm = 500 nT

Instrument Scintrex, ENVI

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DEC - R 1995

MINING LANDS BRANCH  
BUCKLE TWP NORTH COBALT

2-16290

COLEMAN TWP GILLES LIMIT TWP

FALCONBRIDGE LIMITED  
Exploration Division Chelmsford ONTARIO

**SASS LAKE PROJECT  
MAGNETIC SURVEY  
TOTAL FIELD PROFILES**

VAL D'OR GEOPHYSICS LTD

Interpreted by: P. Boileau, P. Eng.

TRACED	DATE	03/95	NETS 2110	PROJECT	95-1192-1.2
ISSUED	DATE		MAP No.	FILE	SASSLAKE.DWG
SUPERVISED	DATE	03/95	SCALE	1:5000	
REVISED	DATE				

