



Bergvesenet

Postboks 3021, N-7441 Trondheim

Rapportarkivet

Bergvesenet rapport nr 4789	Intern Journal nr	Internt arkiv nr	Rapport lokalisering	Gradering Apen
Kommer fra ..arkiv Grong Gruber AS	Ekstern rapport nr	Oversendt fra Grong Gruber a.s.	Fortrolig pga	Fortrolig fra dato:
Tittel Godejord Grong, Norway Geophysical measurement in september 1992.				
Forfatter Laurila, Tero		Dato År 12.10 1992	Bedrift (Oppdragsgiver og/eller oppdragstaker) Norsulfid AS Soumen Malmi OY Finnexploration	
Kommune Grong	Fylke Nord-Trøndelag	Bergdistrikt	1: 50 000 kartblad 18234	1: 250 000 kartblad Grong
Fagområde Geofysikk	Dokument type		Forekomster (forekomst, gruvefelt, undersøkelsesfelt) Godejord	
Råstoffgruppe Malm/metall	Råstofftype Cu Zn			
Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse				

NORSULFID A/S
OUTOKUMPU NORGE A/S
GODEJORD
GRONG, NORWAY
GEOPHYSICAL MEASUREMENTS
IN SEPTEMBER 1992

Espoo 12.10.1992

SUOMEN MALMI OY
FINNEXPLORATION

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1. INTRODUCTION

According to the quotation 221/92 007 to Norsulfid A/S Suomen Malmi Oy-Finnexploration carried out geophysical measurements in the Godejord area in Grong, Norway, during the period September 17 - 20, 1992. The work was done under leadership of Mr Aimo Hattula, Outokumpu Finnmines Oy Exploration. The field crew consisted of one foreman and one observer. The duration of the work was 153 manhours.

Following survey methods and instruments were used:

Method:

Equipment:

Mise-a-la-masse (MAM, called
charged potential as well)
Borehole logging

Gefinex 100
KTP-84/DHI

The quantity of measurements was 5.150 meters of ground surveys and 552,5 hole meters of MAM with 3-6 active groundings and 545,80 meters of borehole logging in 5 holes.

2. BOREHOLE LOGGING

In the borehole survey, a borehole logging system consisting of a hand-held computer KTP-84 and a drill hole interface KTP-DHI made by Rautaruukki Oy, was used. Following parameters were measured:

- galvanic resistivity (wenner array)
- susceptibility

The electrode spacing of wenner sensor is $a=31,4$ cm. The unit of calibrated output value is ohm-m. The susceptibility sensor is an inductive sensor. The unit of the calibrated output value is a susceptibility unit in SI-system. The measuring interval was 10 cm. The results are presented in Appendix 5.3.

3. MAM-MEASUREMENTS

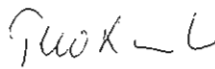
For MAM-measurements, a Gefinex 100 system made by Outokumpu Oy was used.

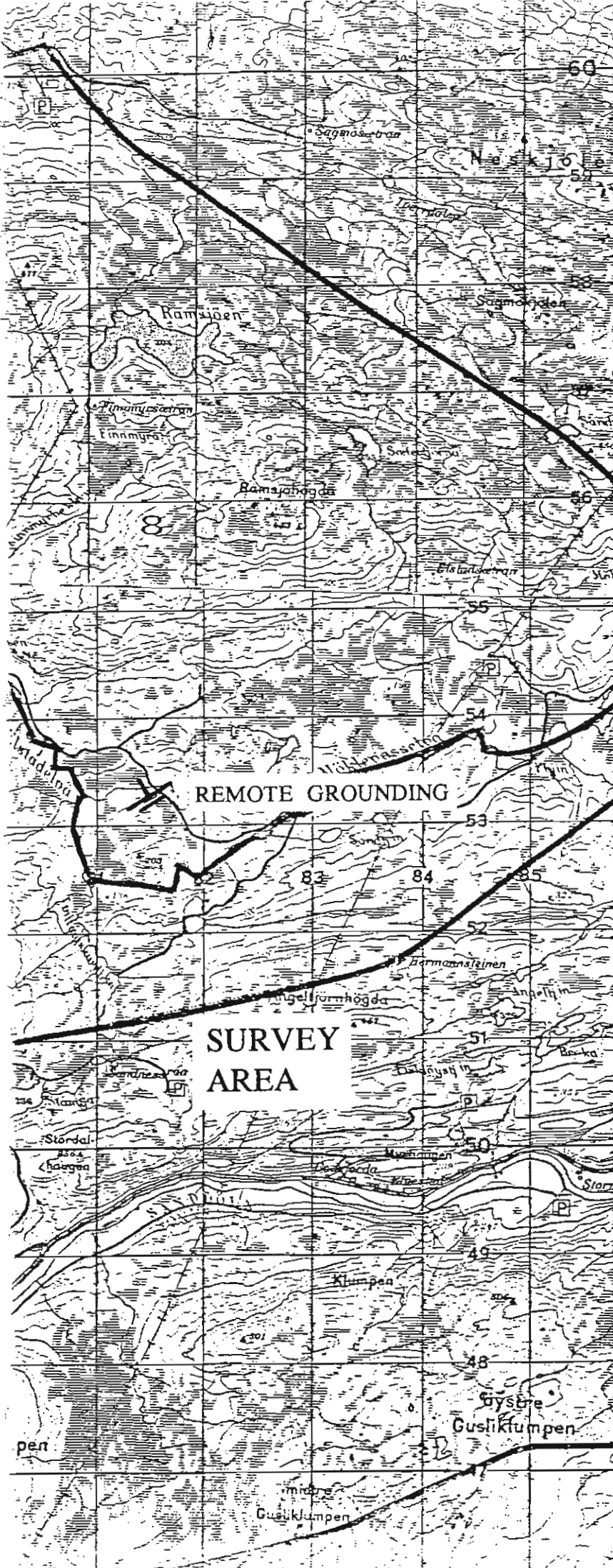
The location of remote grounding is shown in Appendix 5.1, the active groundings and the fixed reference potential electrode are shown in Appendix 5.2. Surface measurements were made using a station separation of 10 or 20 meters. Line separation was 50 meters accordingly. In the holes the station separation was 5 meters. Equipotential and section maps are shown in Appendices 5.4-5.9. All the results are presented as normalized unit, mV/A.

4. CONCLUSION

Technically the field work succeeded well in accordance with the advance planning. The actual usefulness of the results for exploration will be made by the project professionals.

SUOMEN MALMI OY
Measurements


Tero Laurila
engineer

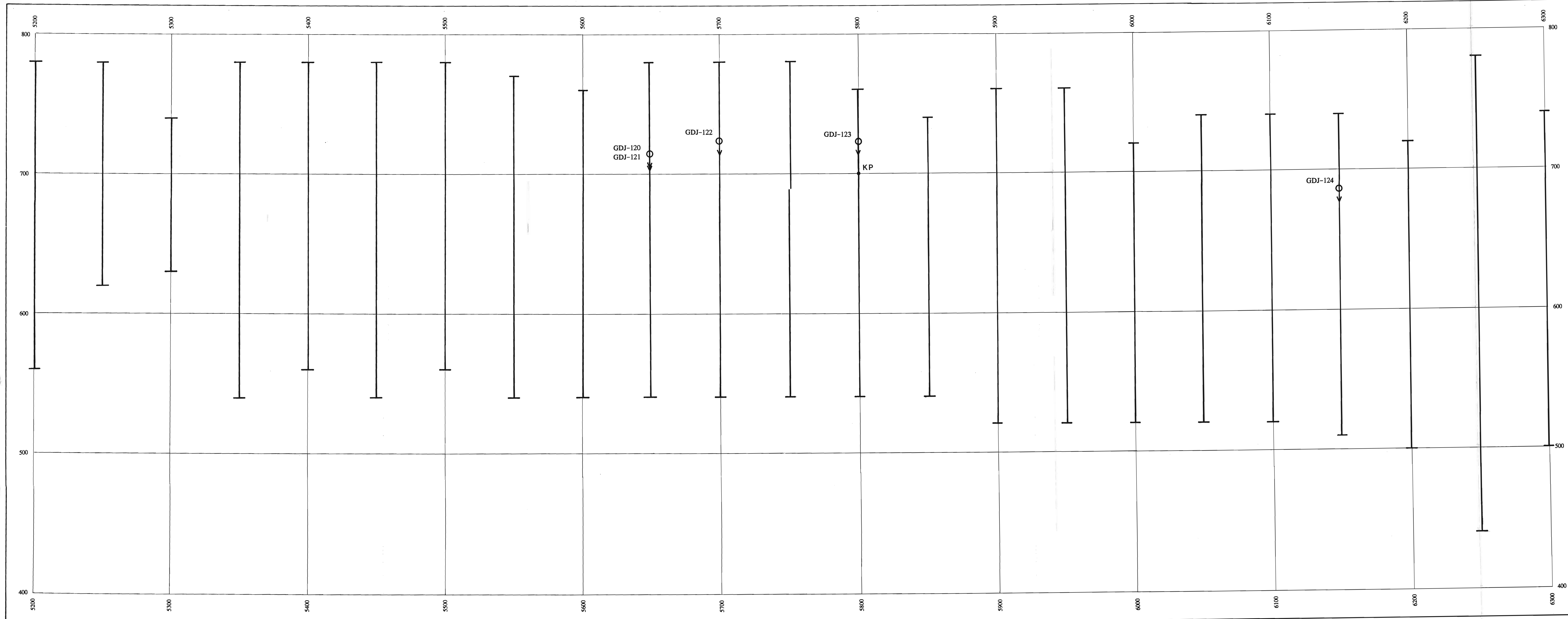


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GODEJORD
GRONG, NORWAY

1:50 000
INDEX MAP

NORSULFID A/S
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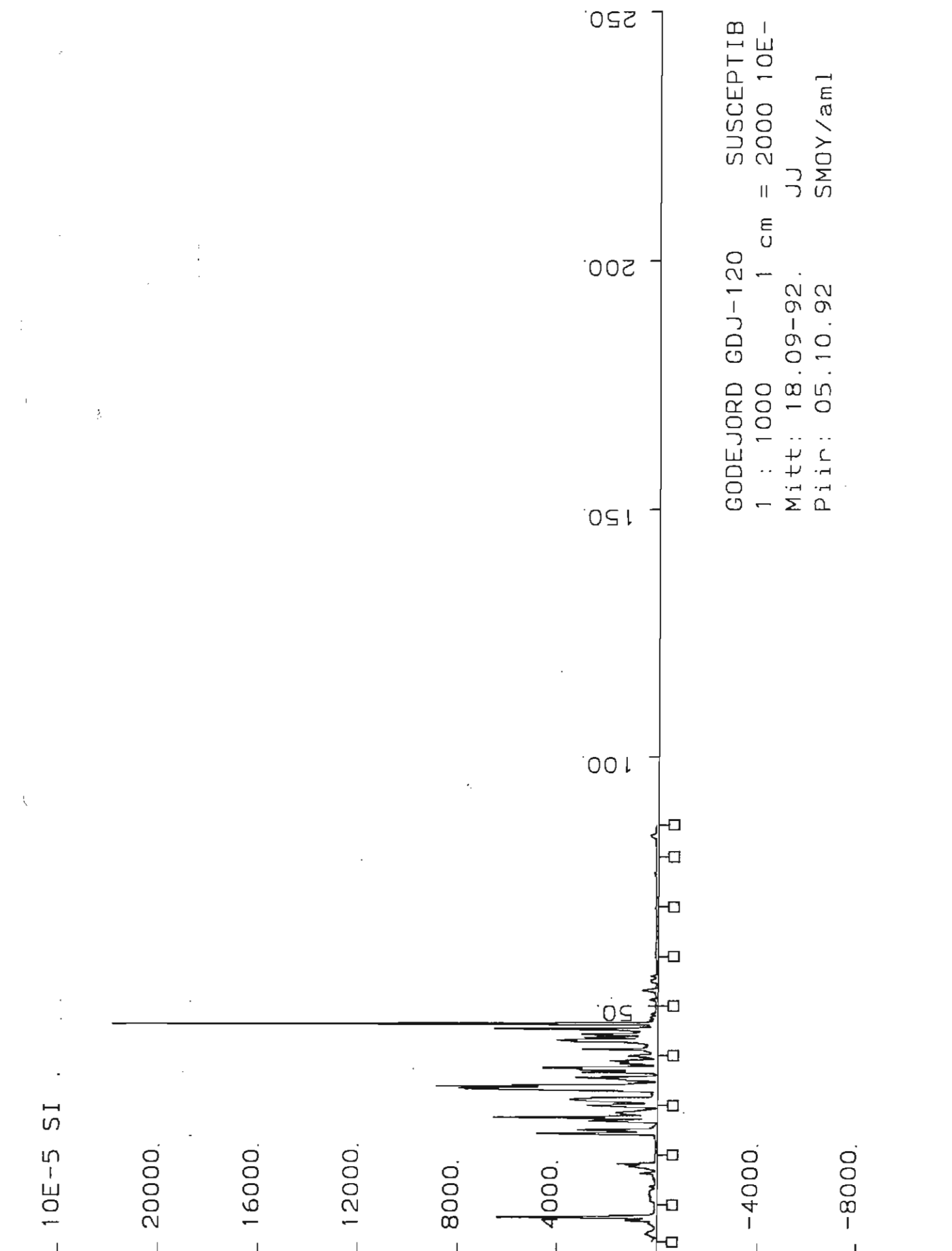


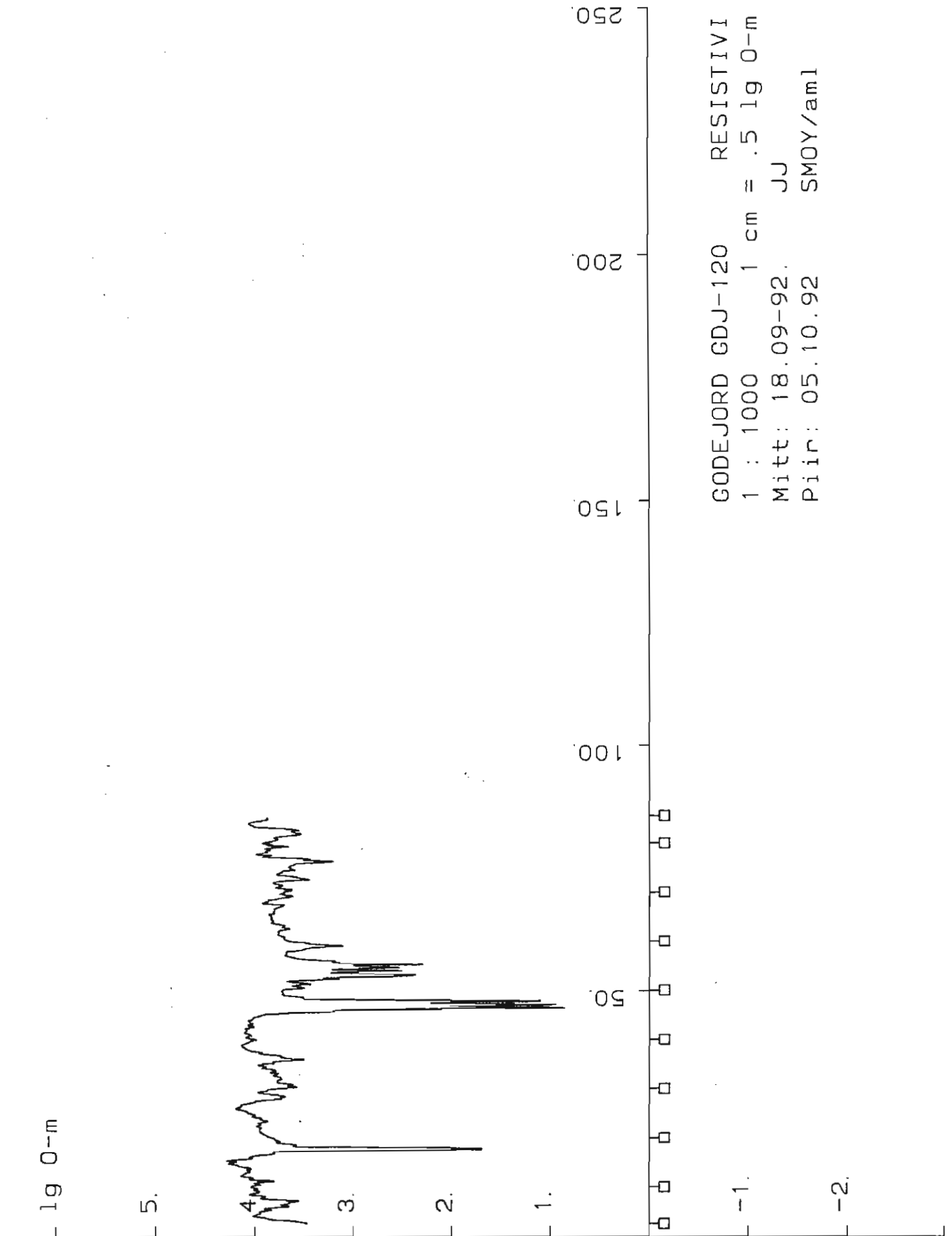
- ┃ lines surveyd
- ↓ holes surveyd and logged
- KP reference potential electrode

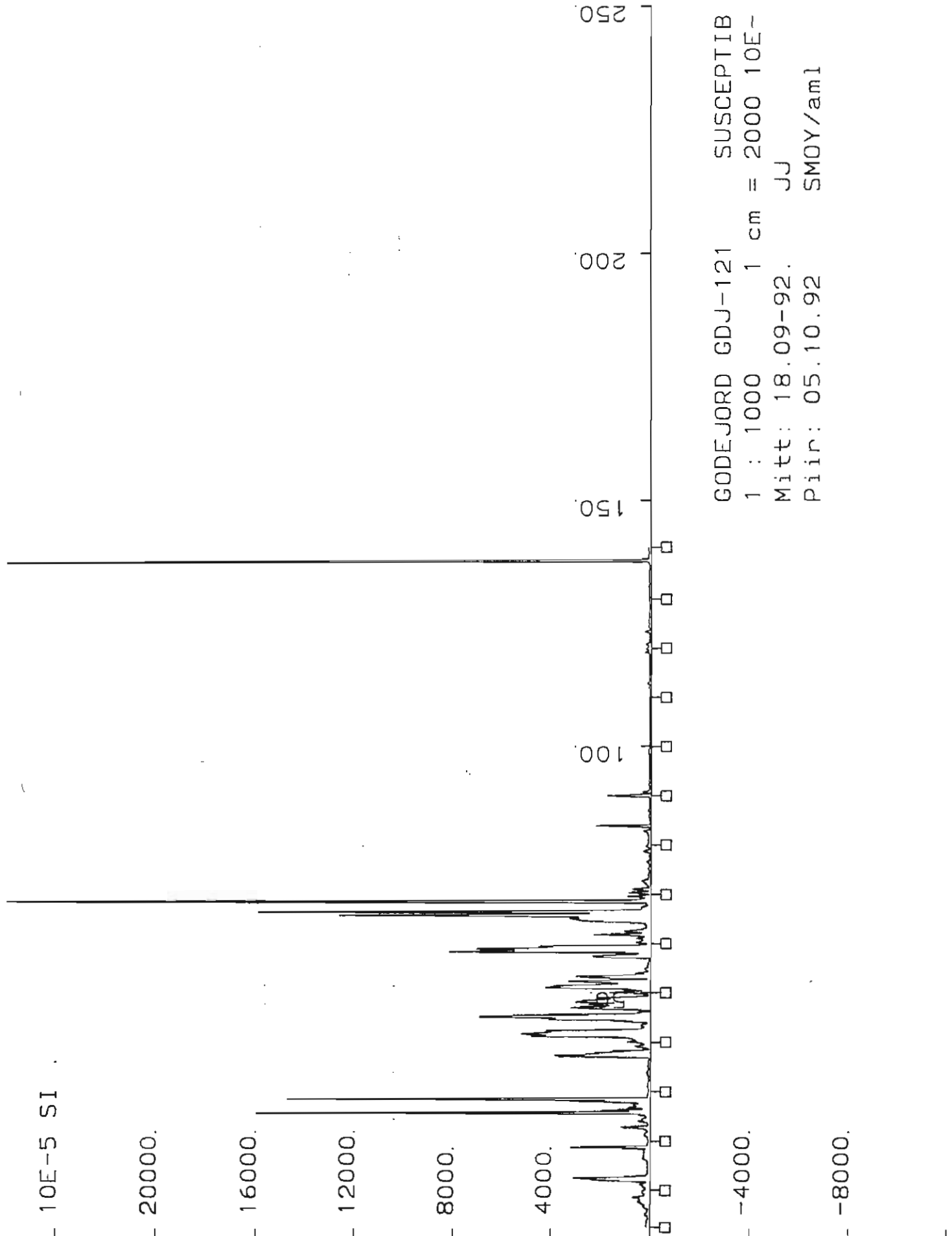
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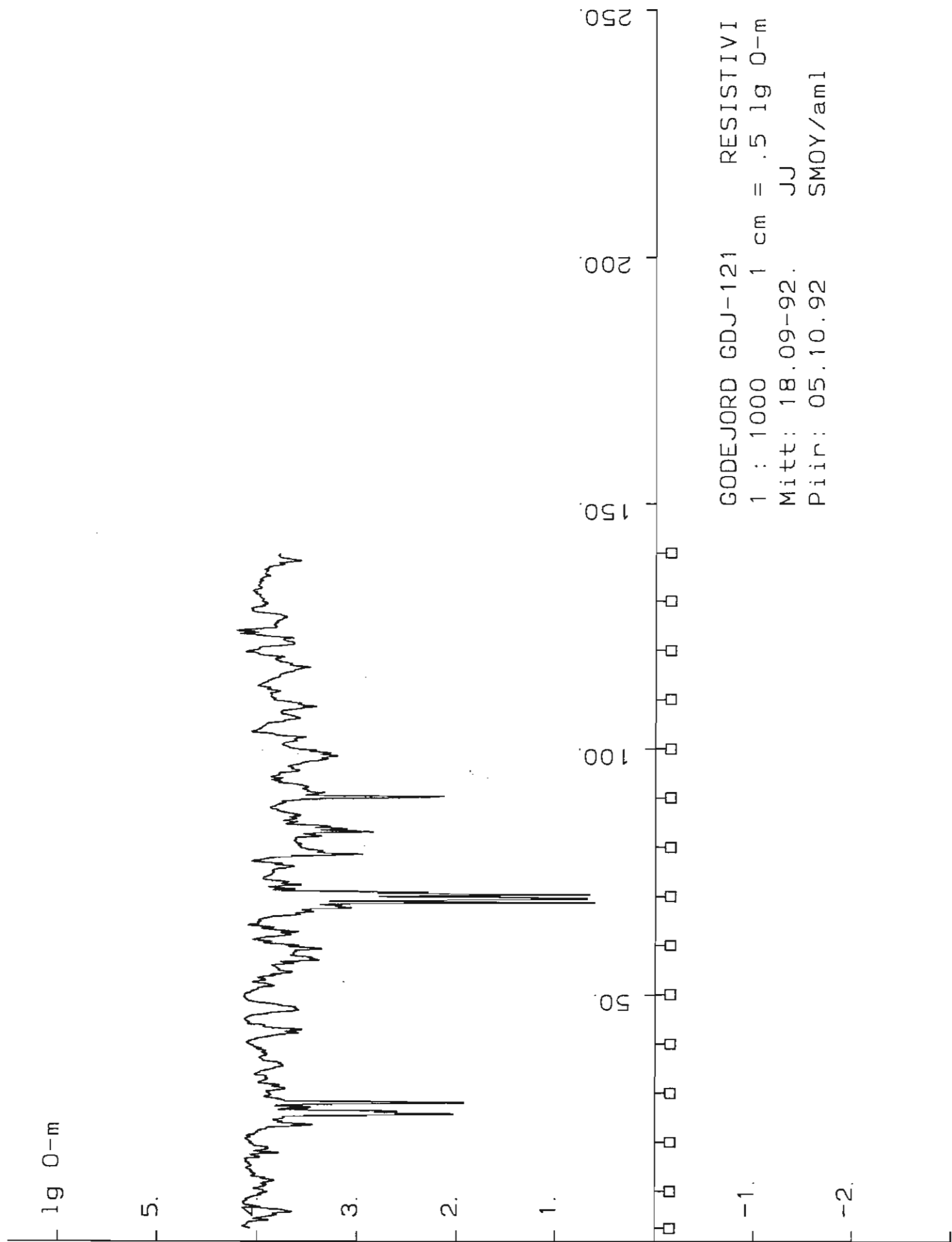
GODEJORD
GRONG, NORWAY
1:1000
Survey grid

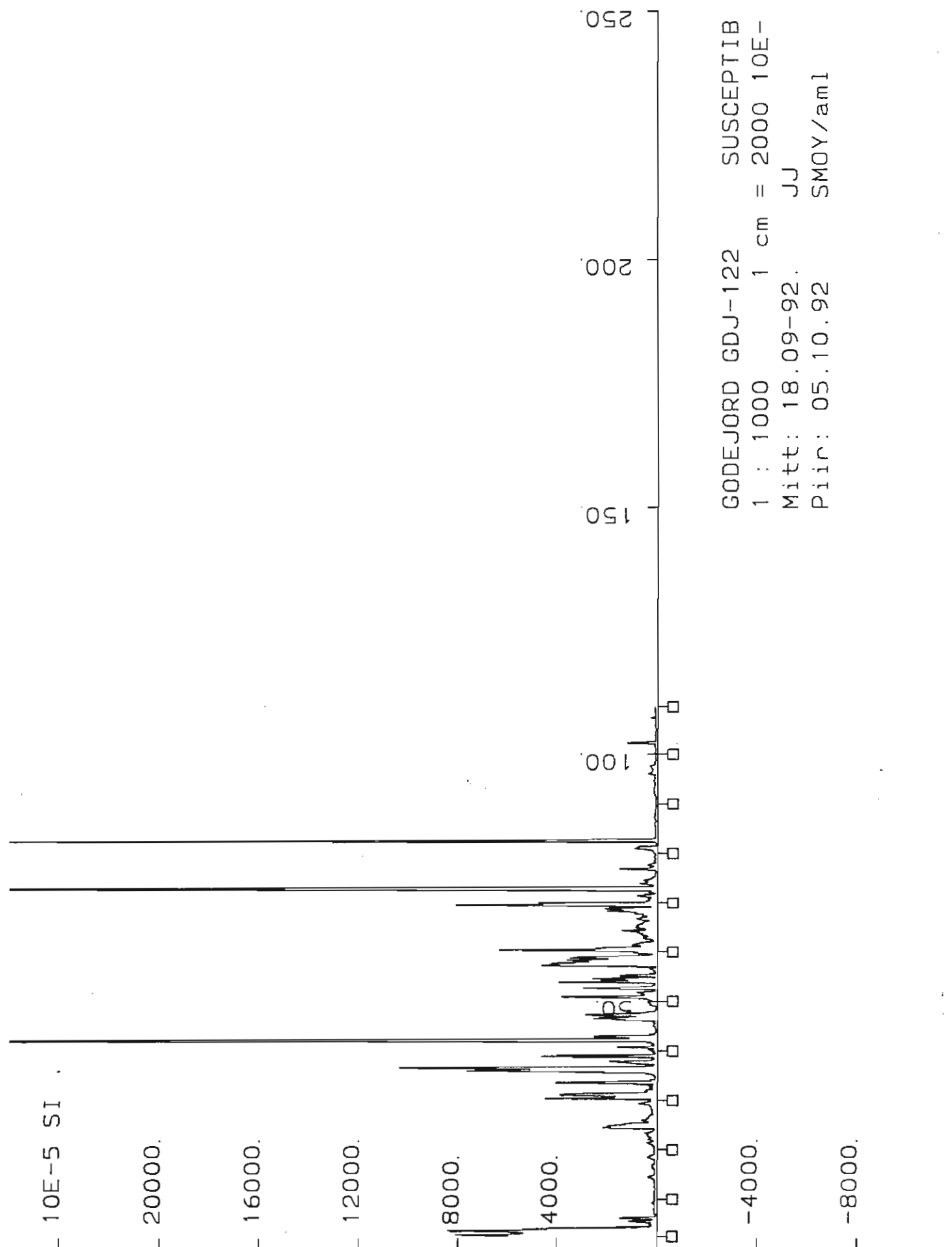
NORSULFID A/S
10.1992 SMOY/aml



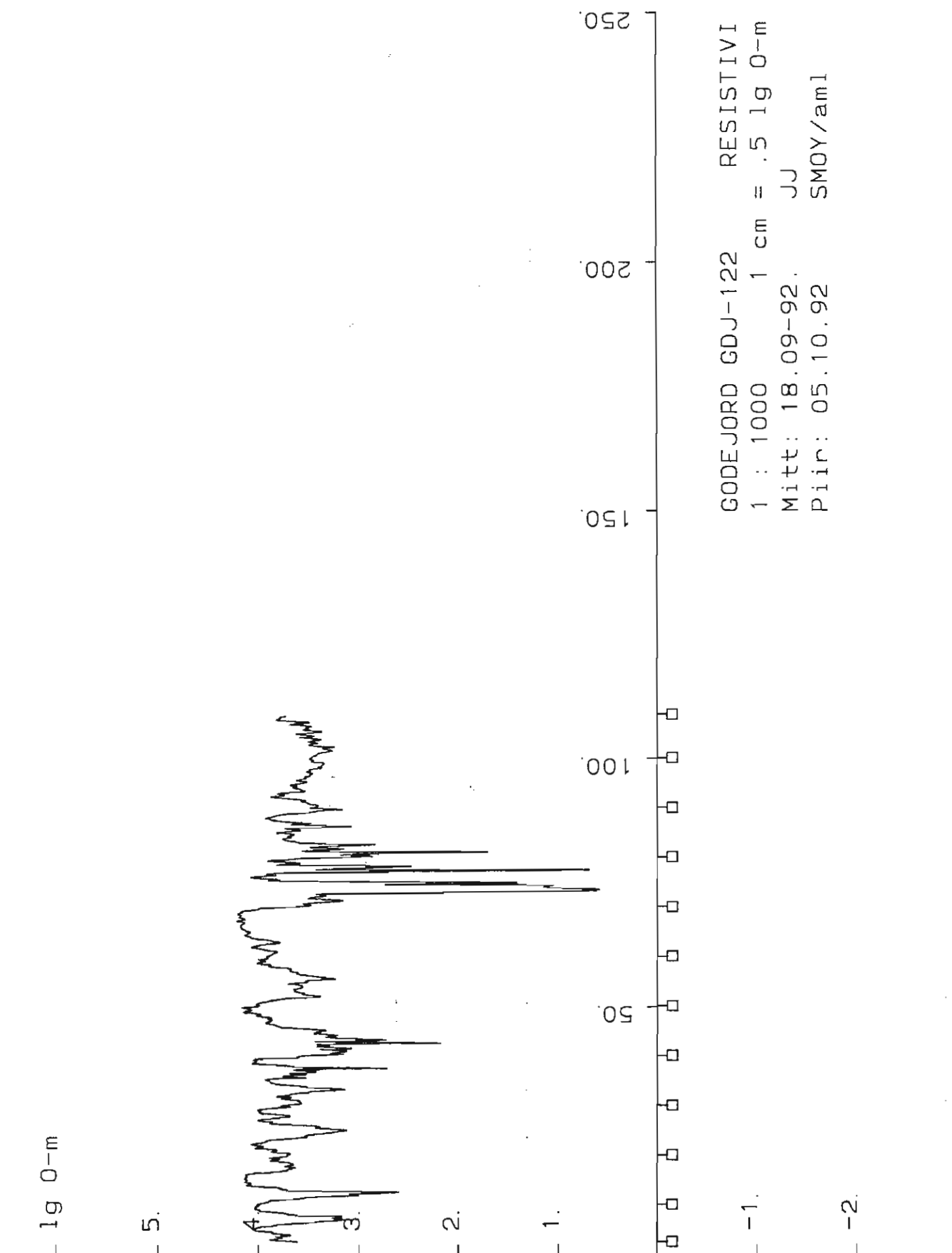


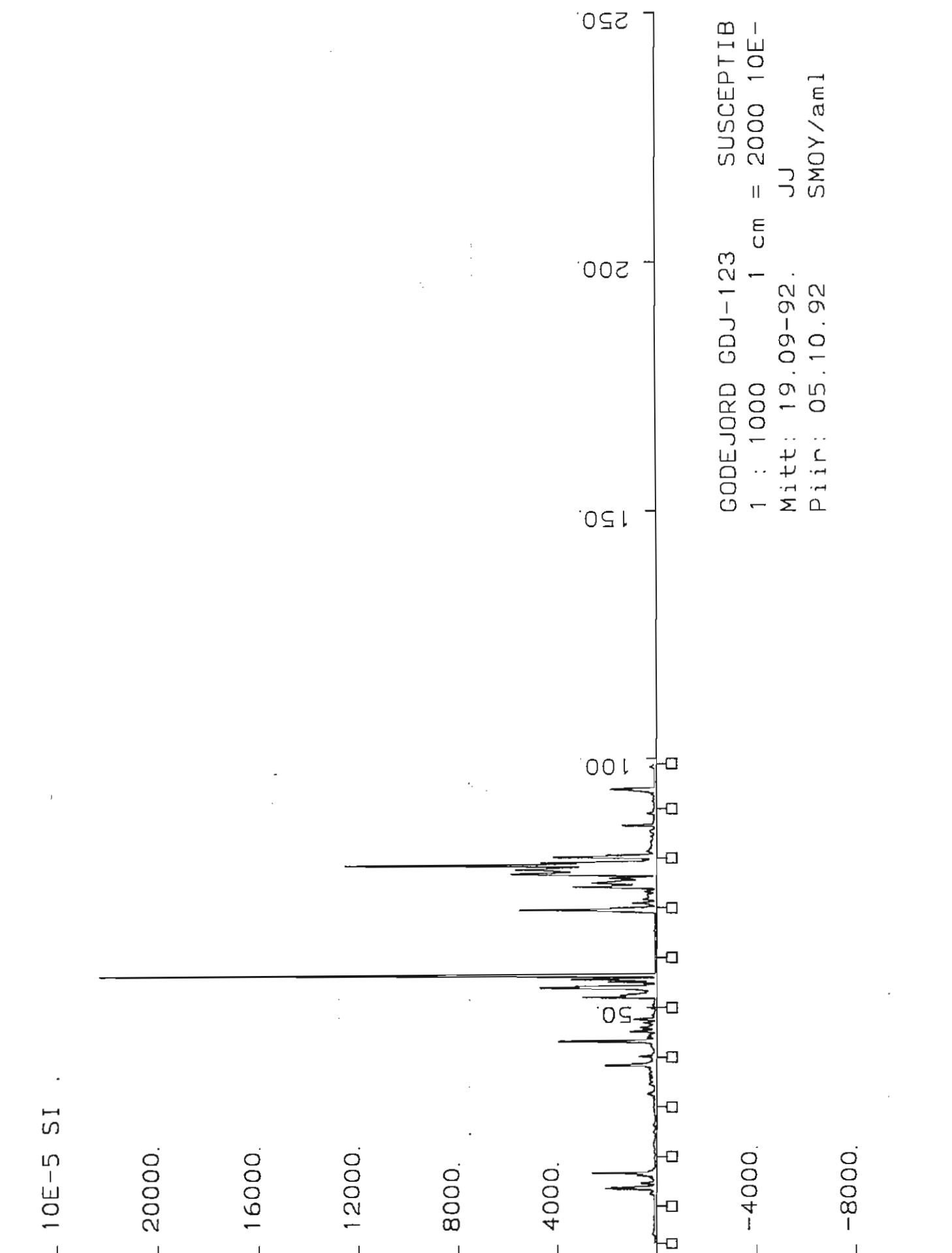


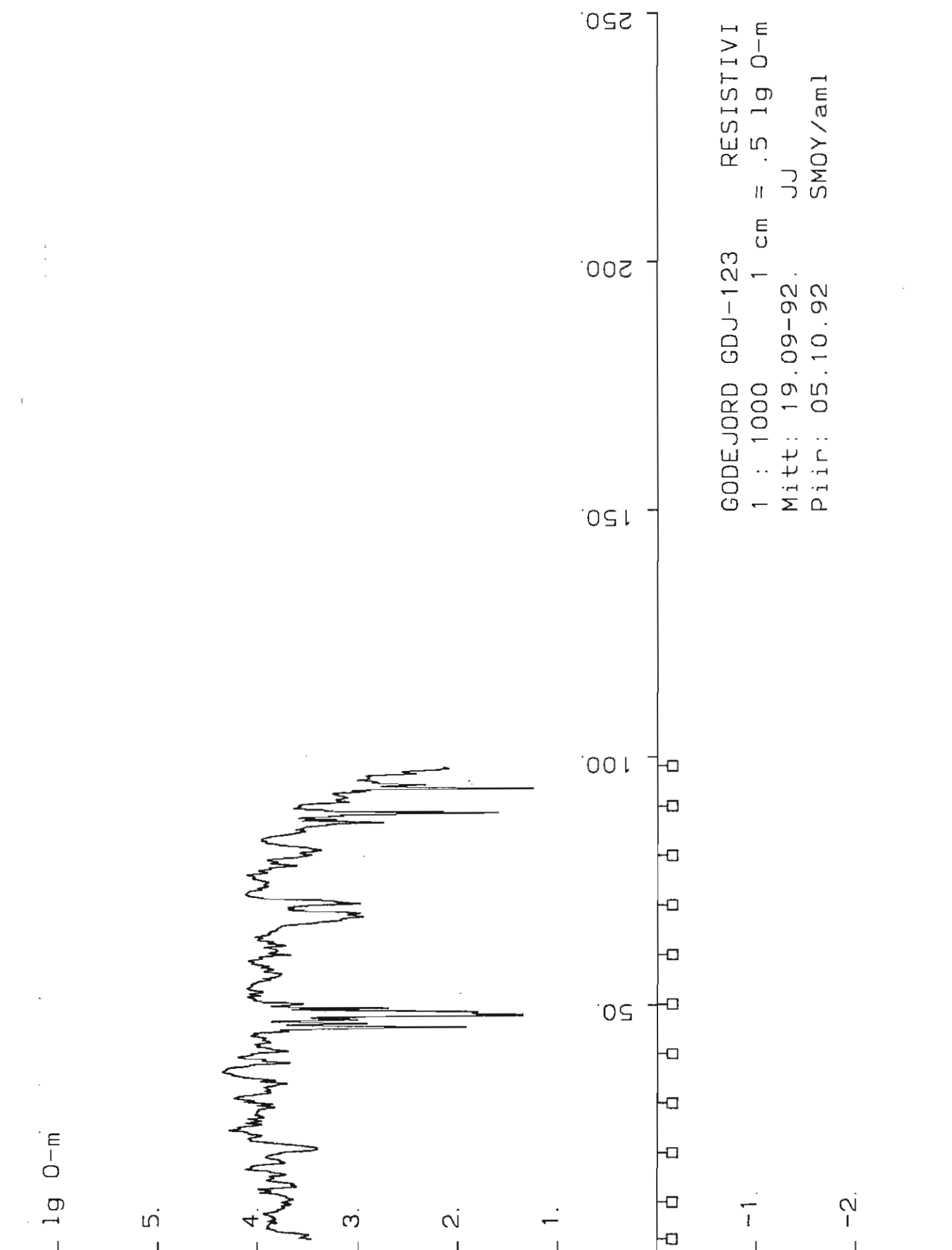


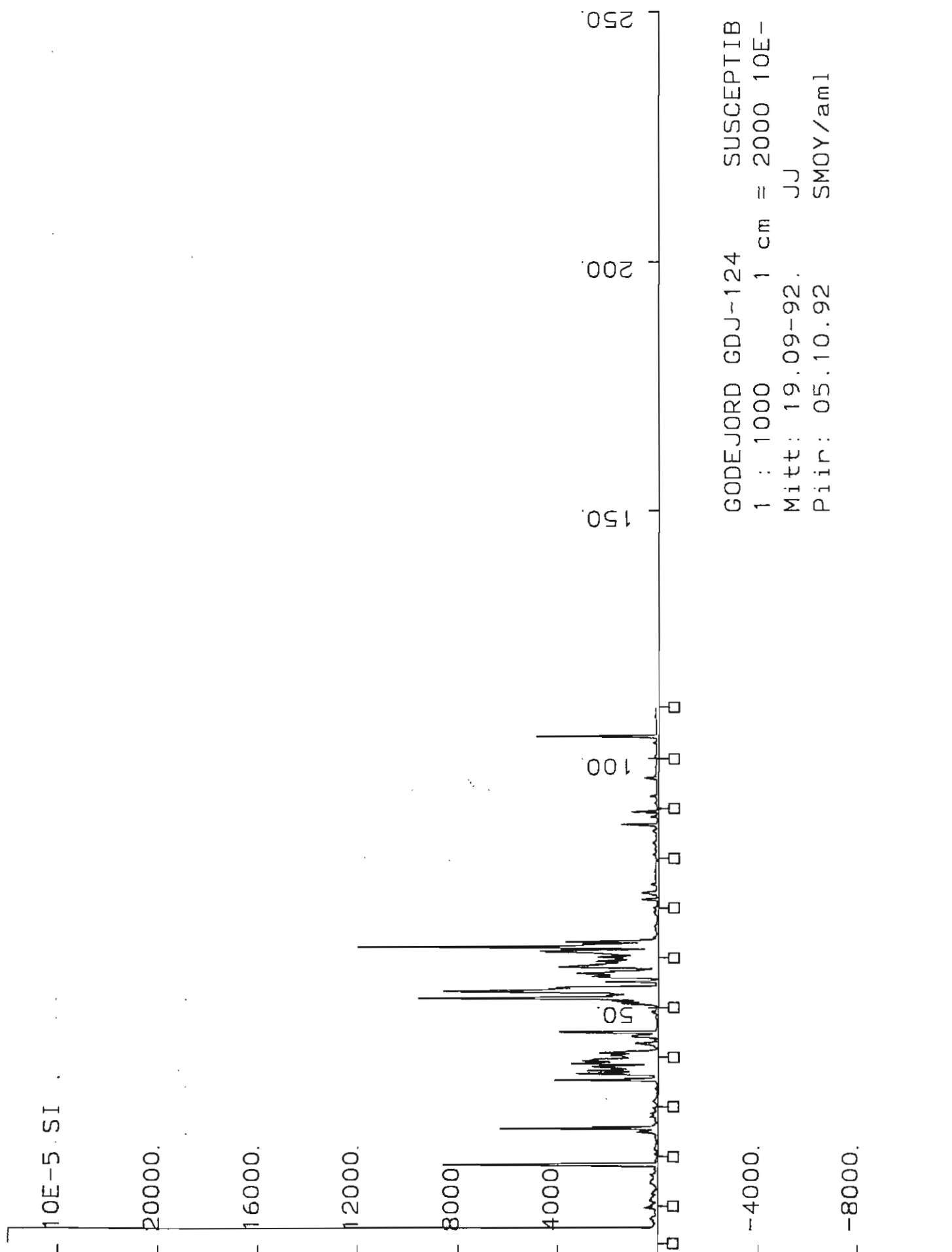


CODEJORD GDJ-122 SUSCEPTIB
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Mitt: 18.09-92. JJ
Pirr: 05.10.92 SMOY/aml

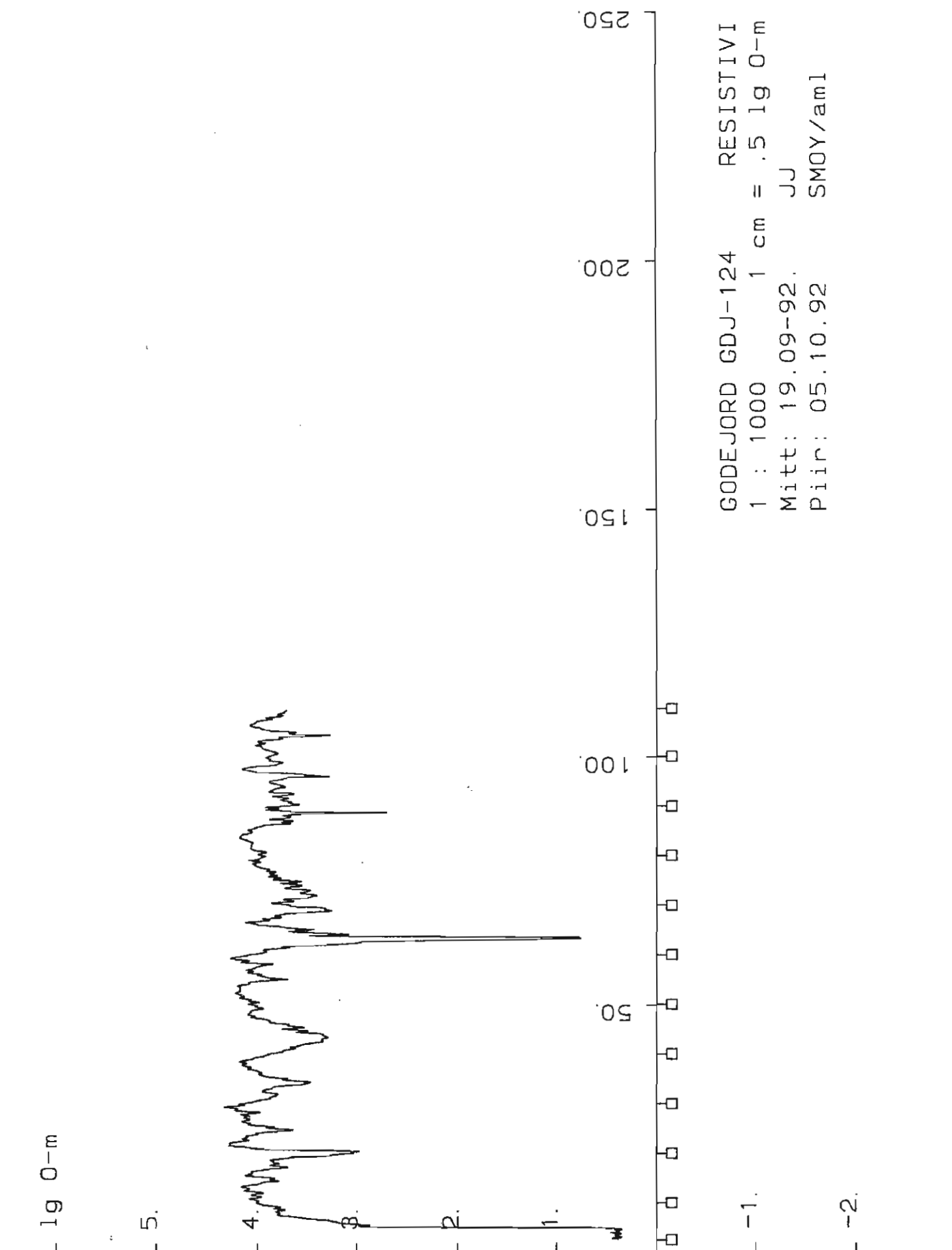




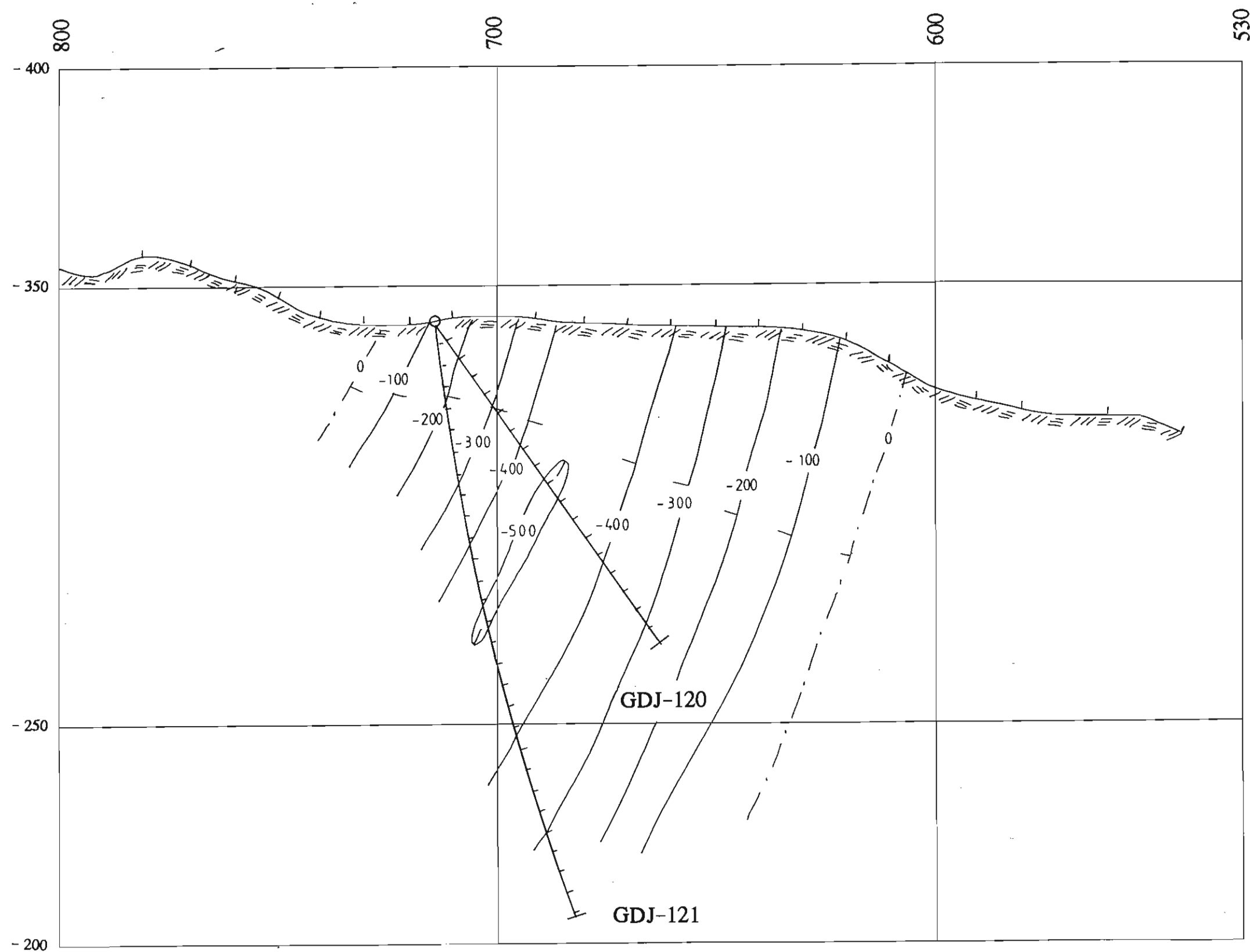




GODEJORD GDJ-124 SUSCEPTIB
1 : 1000 1 cm = 2000 10E-
Mitt: 19.09-92. JJ
Pirr: 05.10.92 SMOY/aml



CORE HOLES: GDJ - 120
GDJ - 121



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GODEJORD

GRONG, NORWAY

PROFILE 5650

1:1000

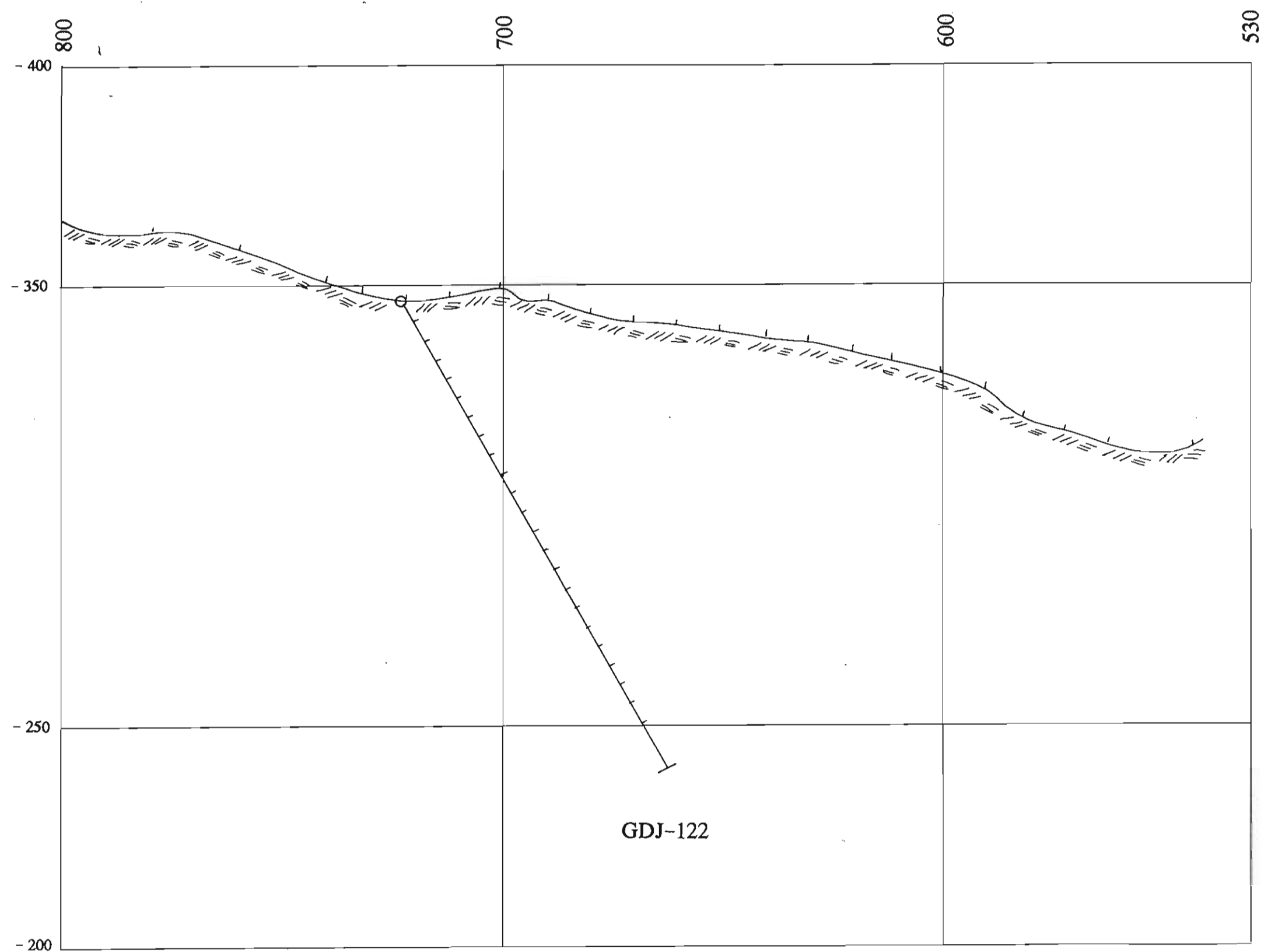
CHARGED POTENTIAL SECTION

Active grounding GDJ-120 / 46.9 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 122



SUOMEN MALMI OY
FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5700

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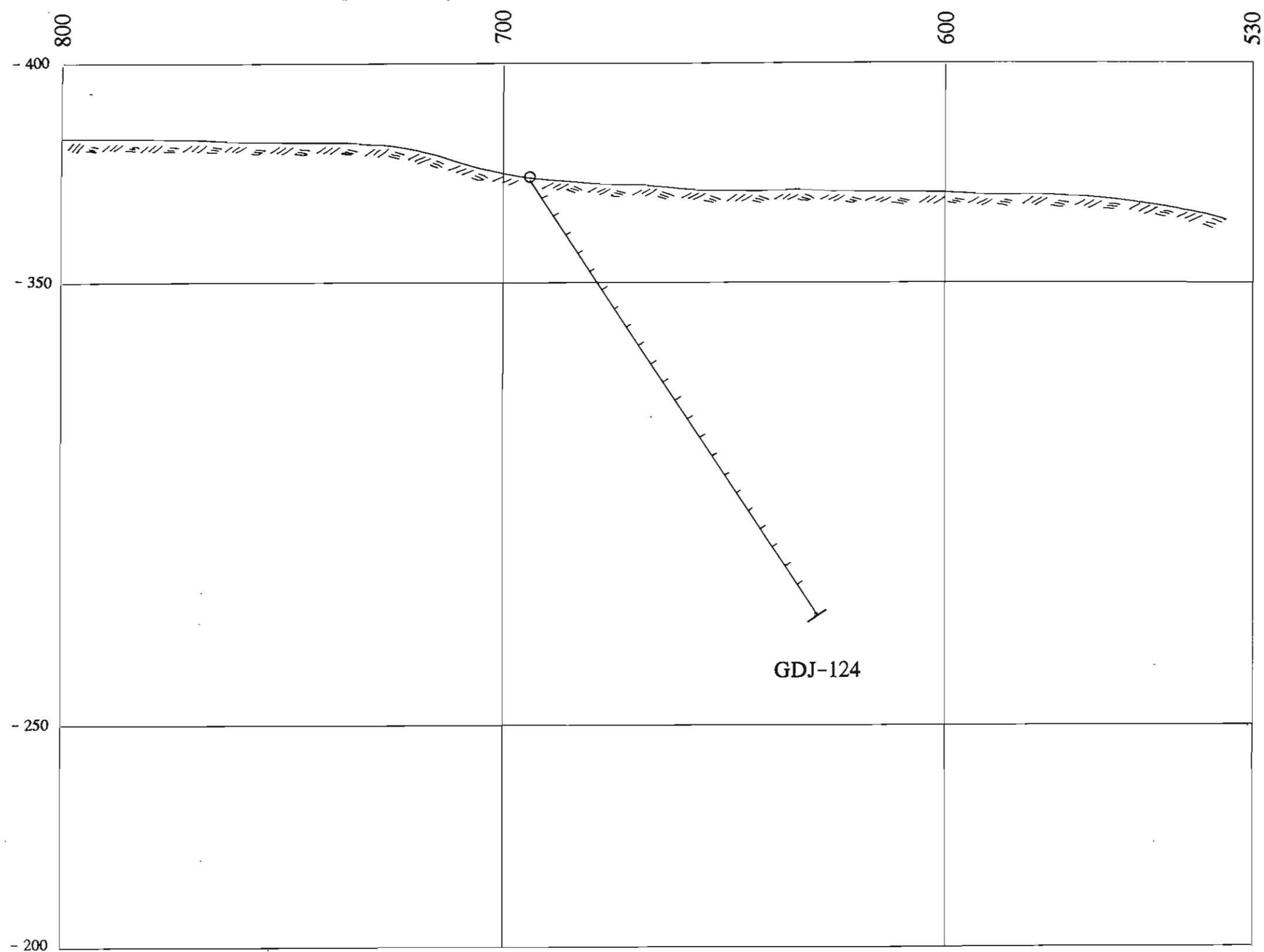
CHARGED POTENTIAL SECTION

Active grounding GDJ-120 / 46.9 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 124

**SUOMEN MALMI OY**
FINNEXPLORATION**GODEJORD**

GRONG, NORWAY

PROFILE 6150

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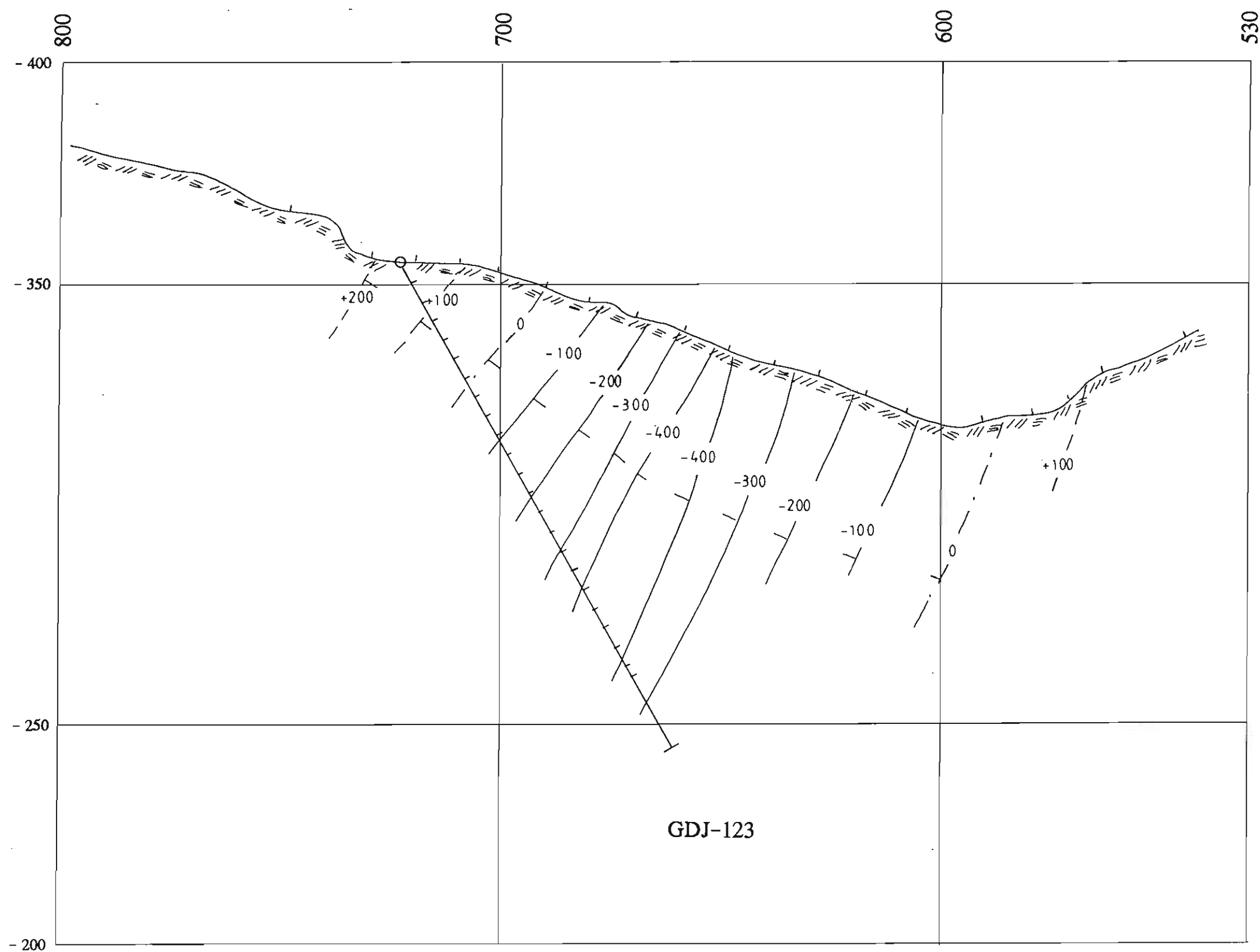
CHARGED POTENTIAL SECTION

Active grounding GDJ-120 / 46.9 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 123



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FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5800

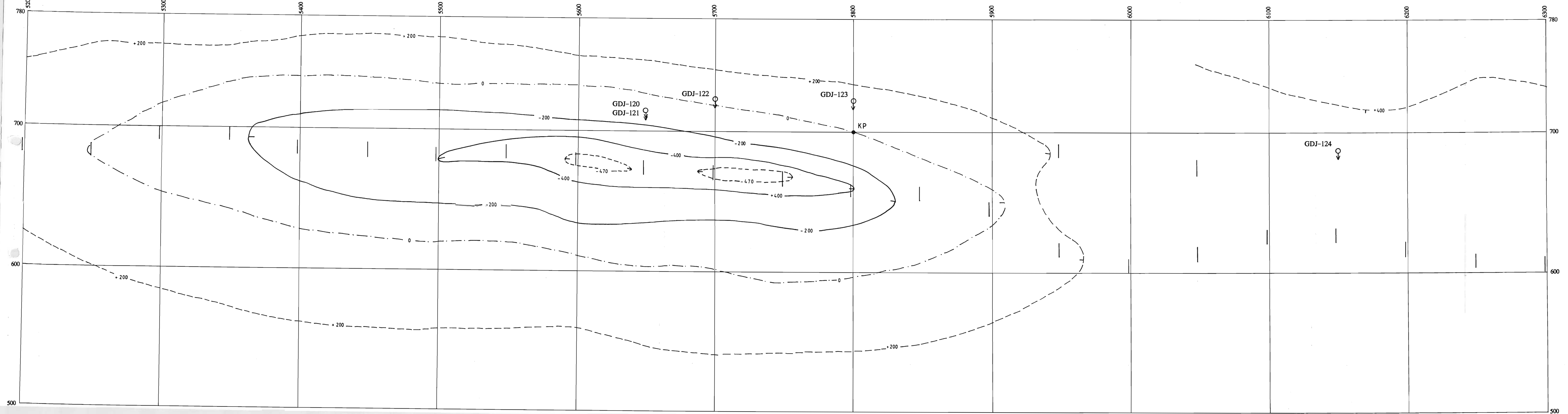
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CHARGED POTENTIAL SECTION

Active grounding GDJ-120 / 46.9 m

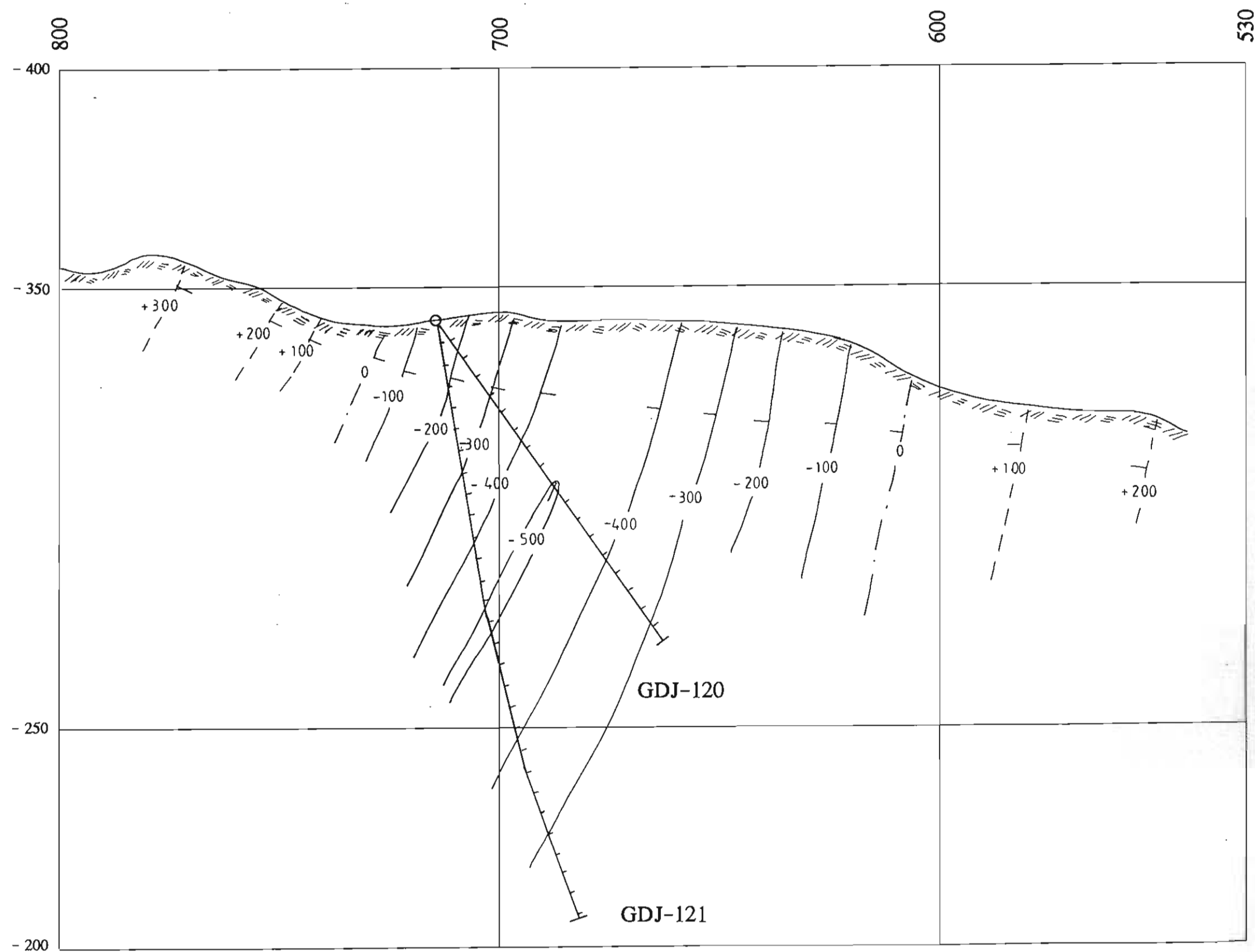
NORSULFID A/S

10.1992 / SMOY/aml



SUOMEN MALMI OY FINNEXPLORATION	
GODEJORD	
GRONG, NORWAY	
1:1000	
CHARGED POTENTIAL MAP	
Active grounding GDJ-121 / 69.6 m	
NORSULFID A/S	
9.1992 / SMOY/aml	

CORE HOLES: GDJ - 120
GDJ - 121



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FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5650

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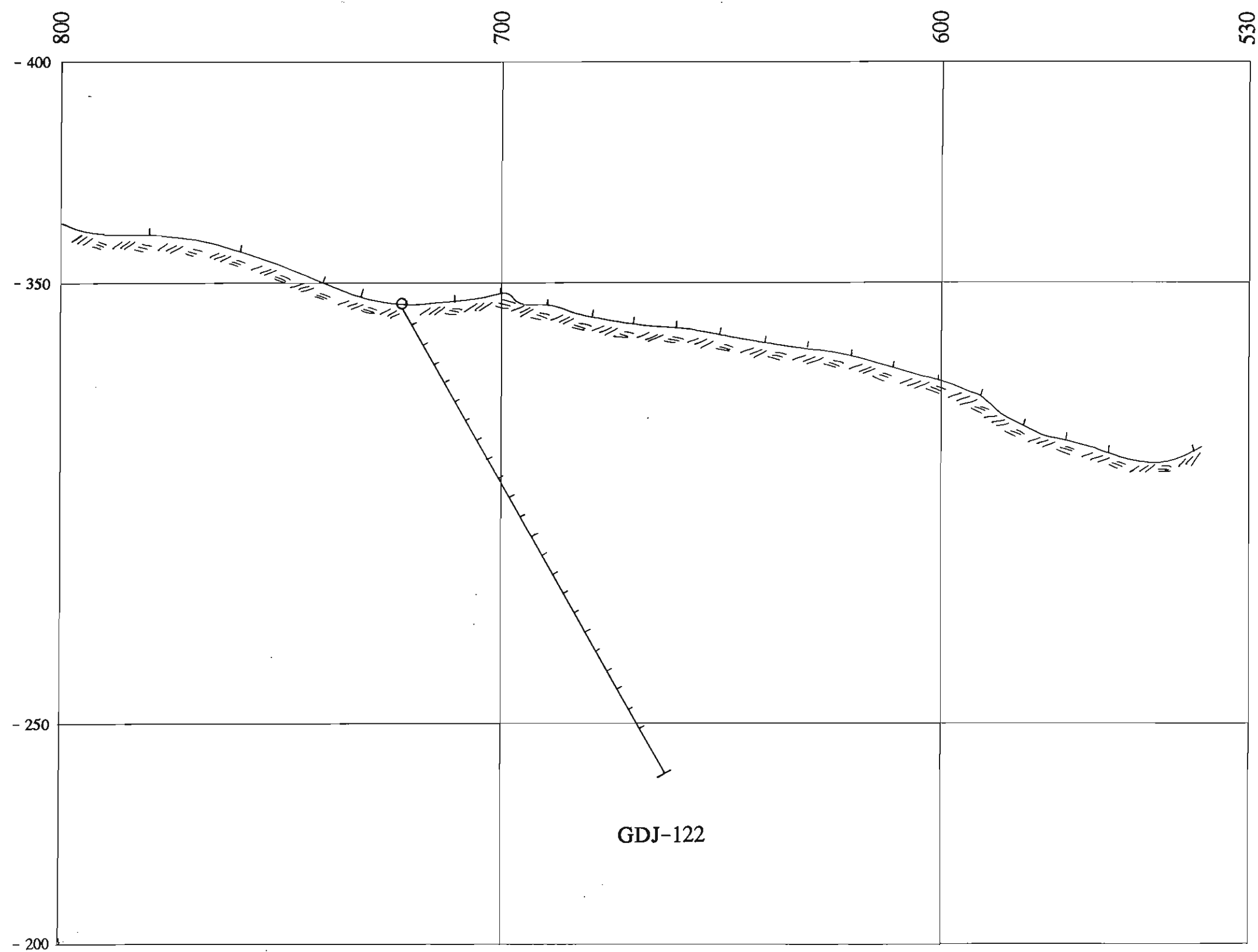
CHARGED POTENTIAL SECTION

Active grounding GDJ-121 / 69.6 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 122



SUOMEN MALMI OY
FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5700

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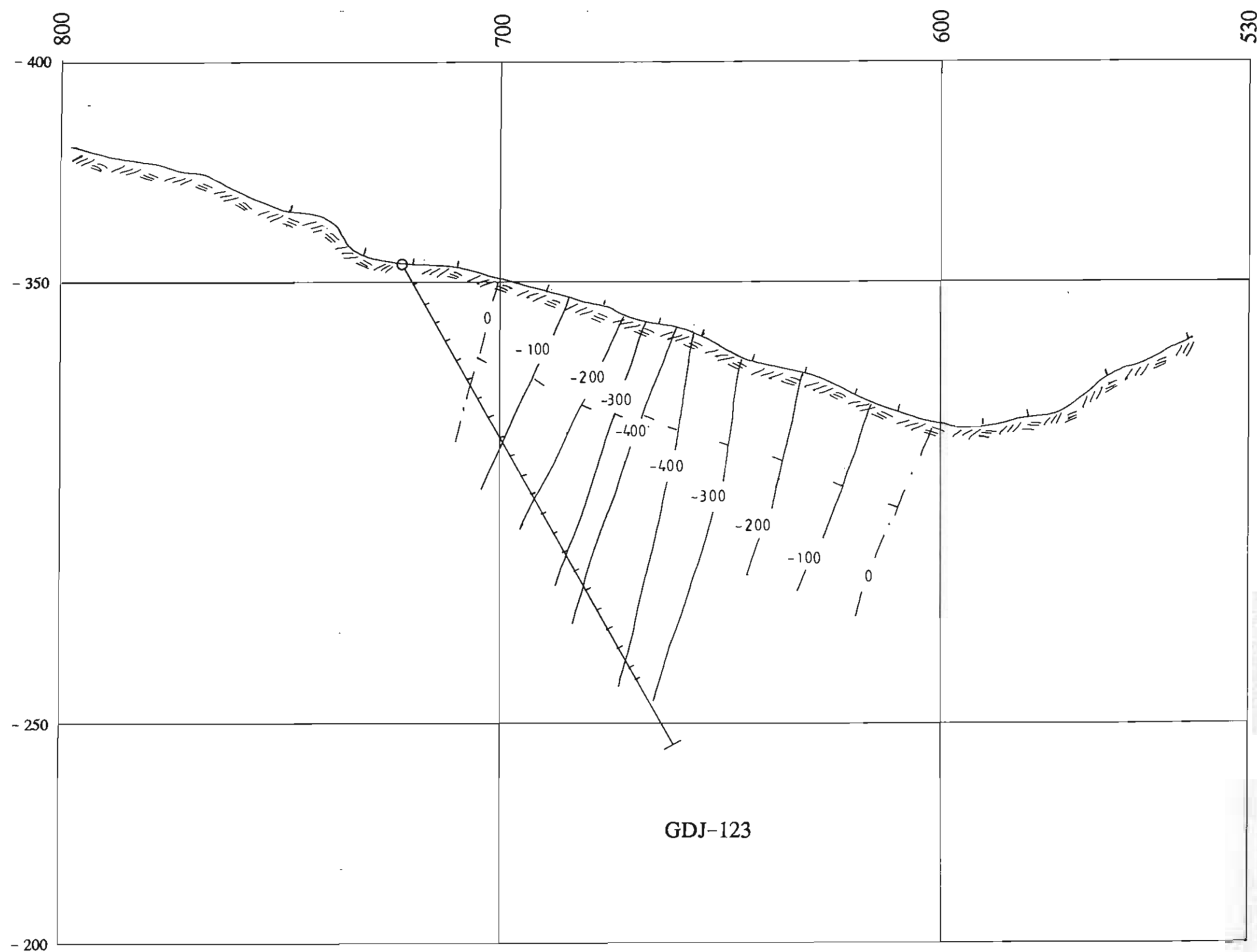
CHARGED POTENTIAL SECTION

Active grounding GDJ-121 / 69.6 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 123



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GODEJORD

GRONG, NORWAY

PROFILE 5800

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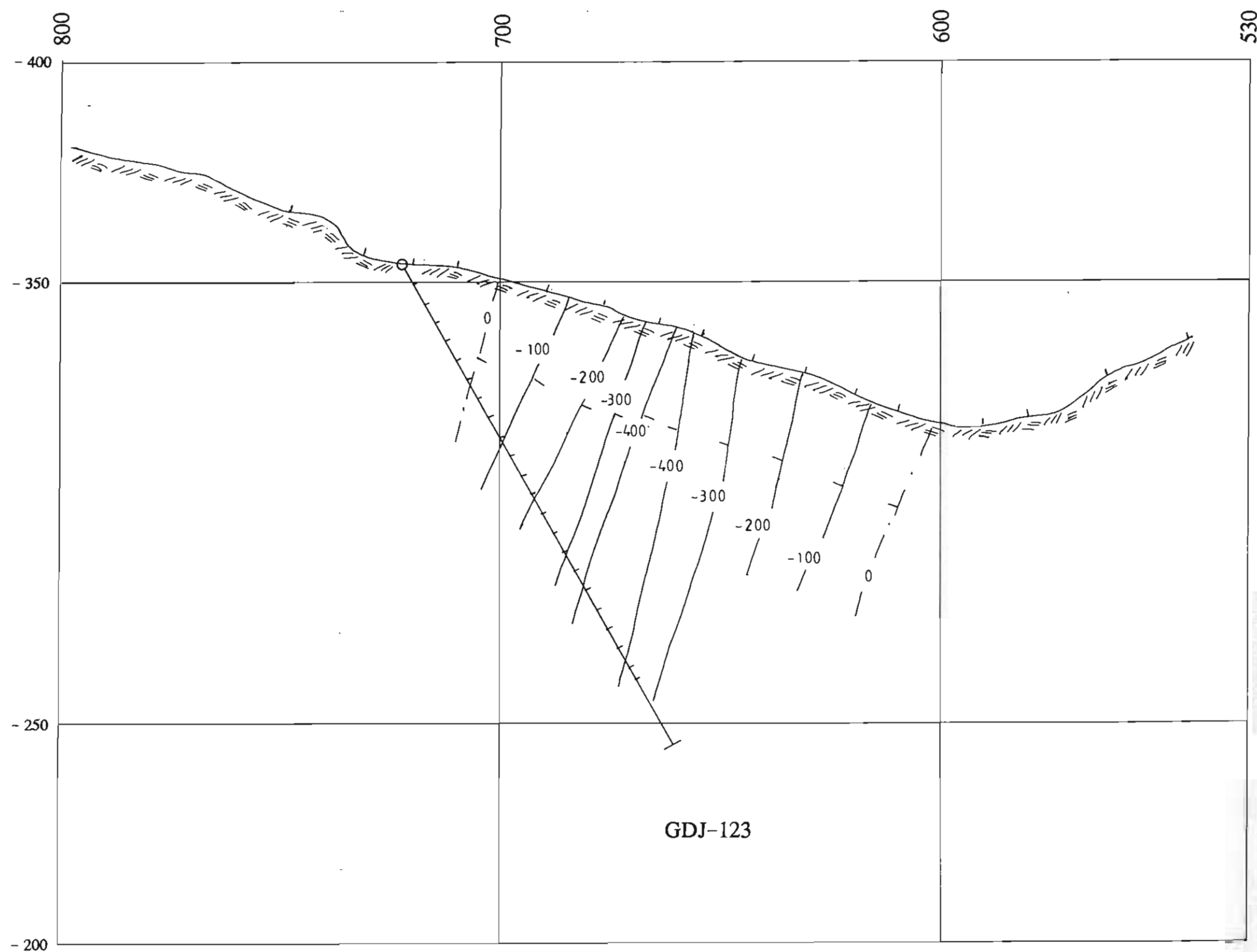
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Active grounding GDJ-121 / 69.6 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 123



SUOMEN MALMI OY
FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5800

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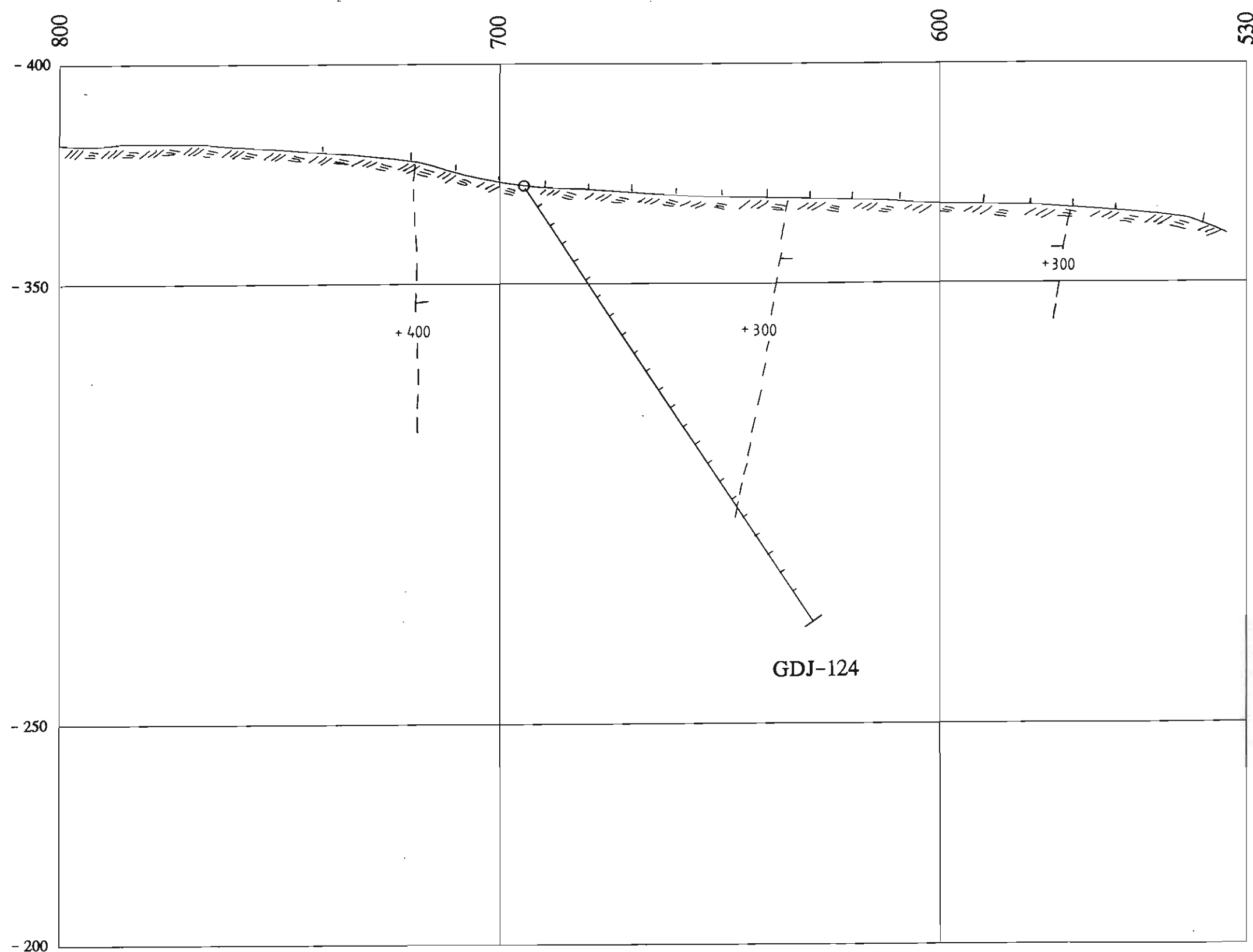
CHARGED POTENTIAL SECTION

Active grounding GDJ-121 / 69.6 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 124



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GODEJORD

GRONG, N O R W A Y

PROFILE 6150

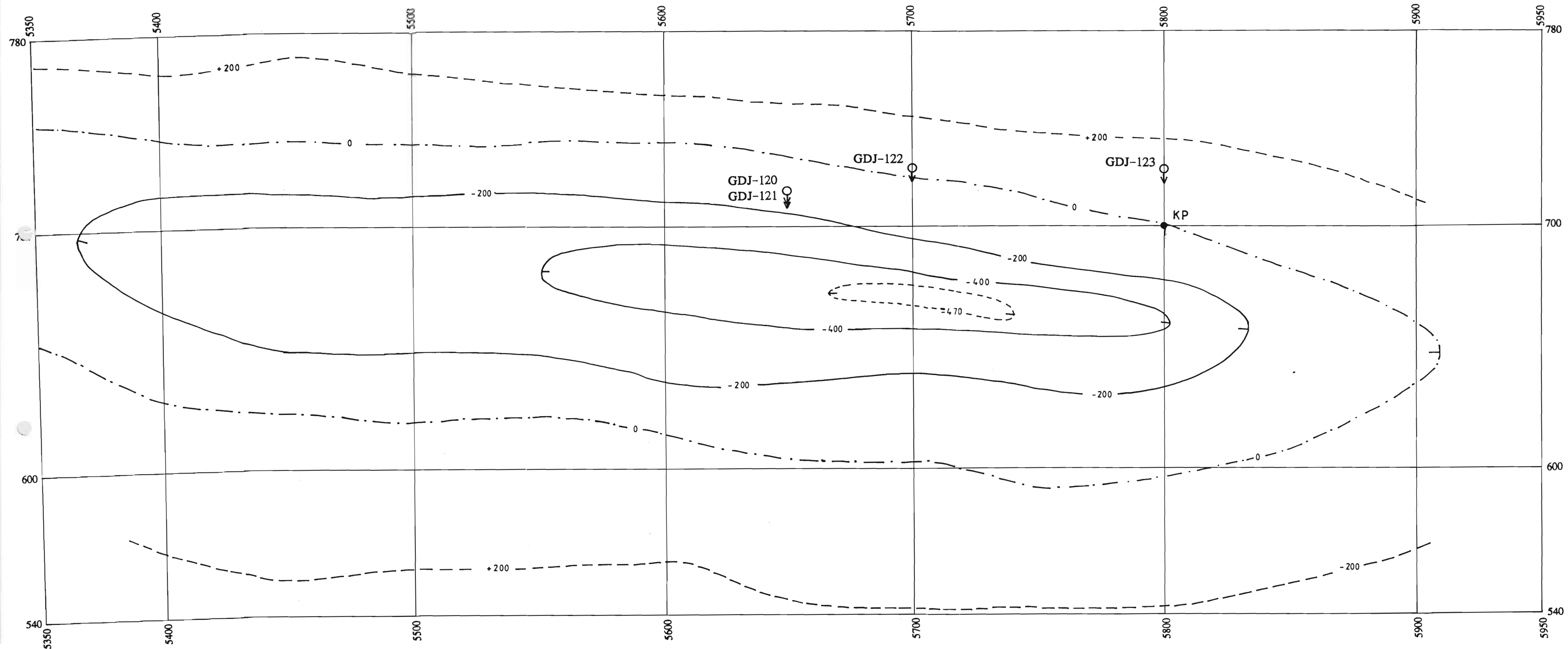
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CHARGED POTENTIAL SECTION

Active grounding GDJ-121 / 69.6 m

NORSULFID A/S

10.1992 / SMOY/aml

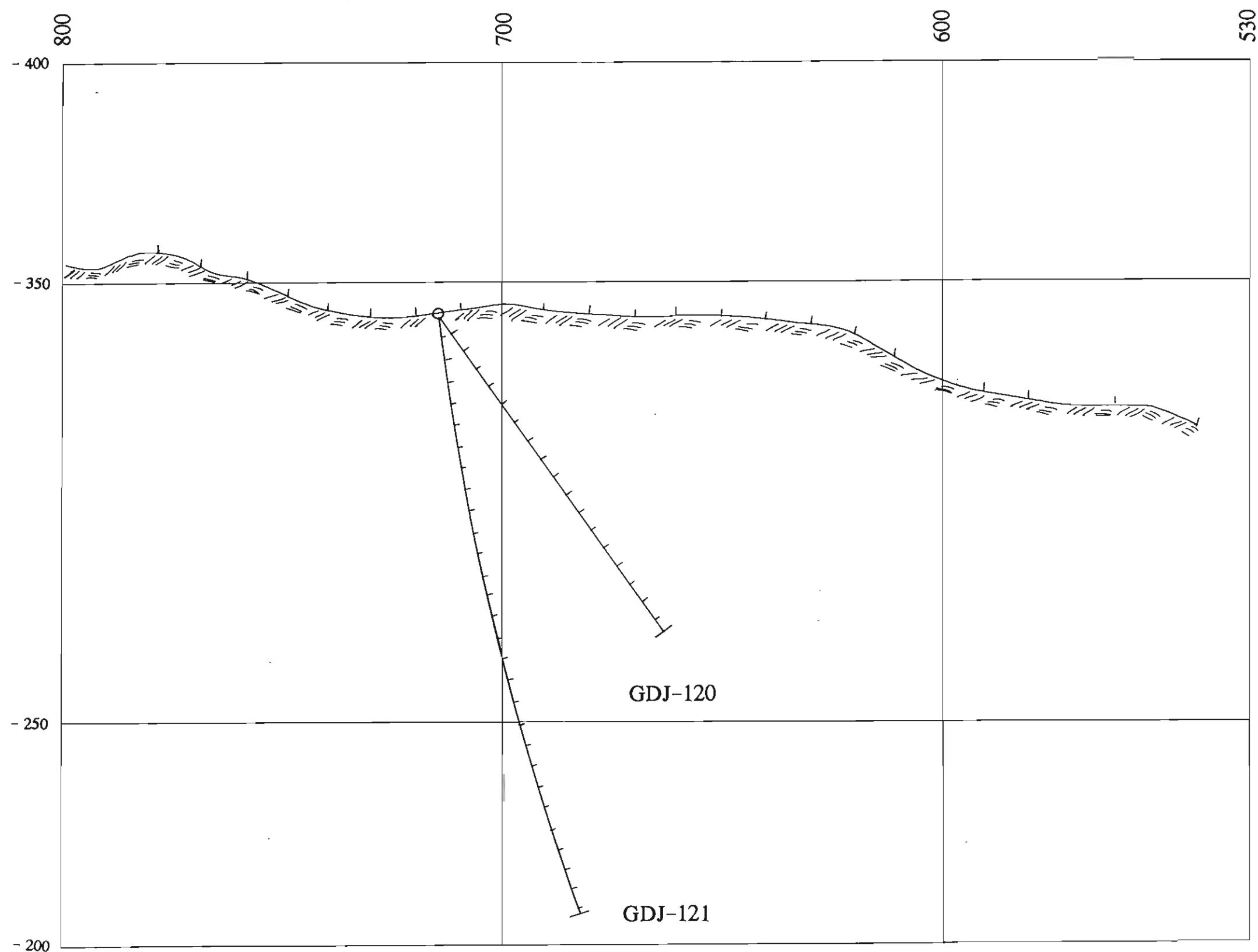


SUOMEN MALMI OY
FINNEXPLORATION

GODEJORD
GRONG, NORWAY
1:1000
CHARGED POTENTIAL MAP
Active grounding GDJ-122 / 73.5 m

NORSULFID A/S
9.1992 / SMOY/aml

CORE HOLES: GDJ - 120
GDJ - 121



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FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5650

1:1000

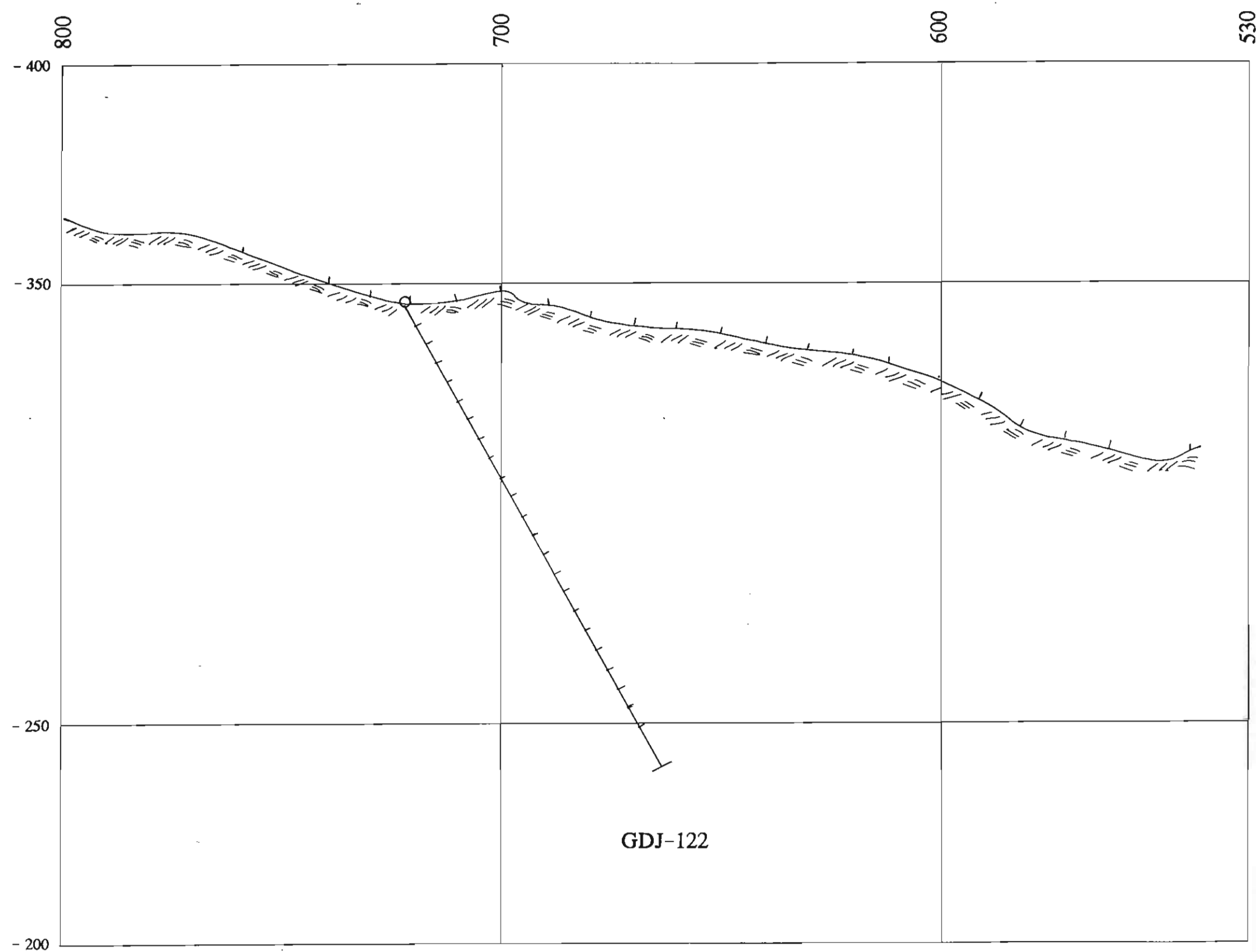
CHARGED POTENTIAL SECTION

Active grounding GDJ-122 / 73.5 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 122



SUOMEN MALM OY
FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5700

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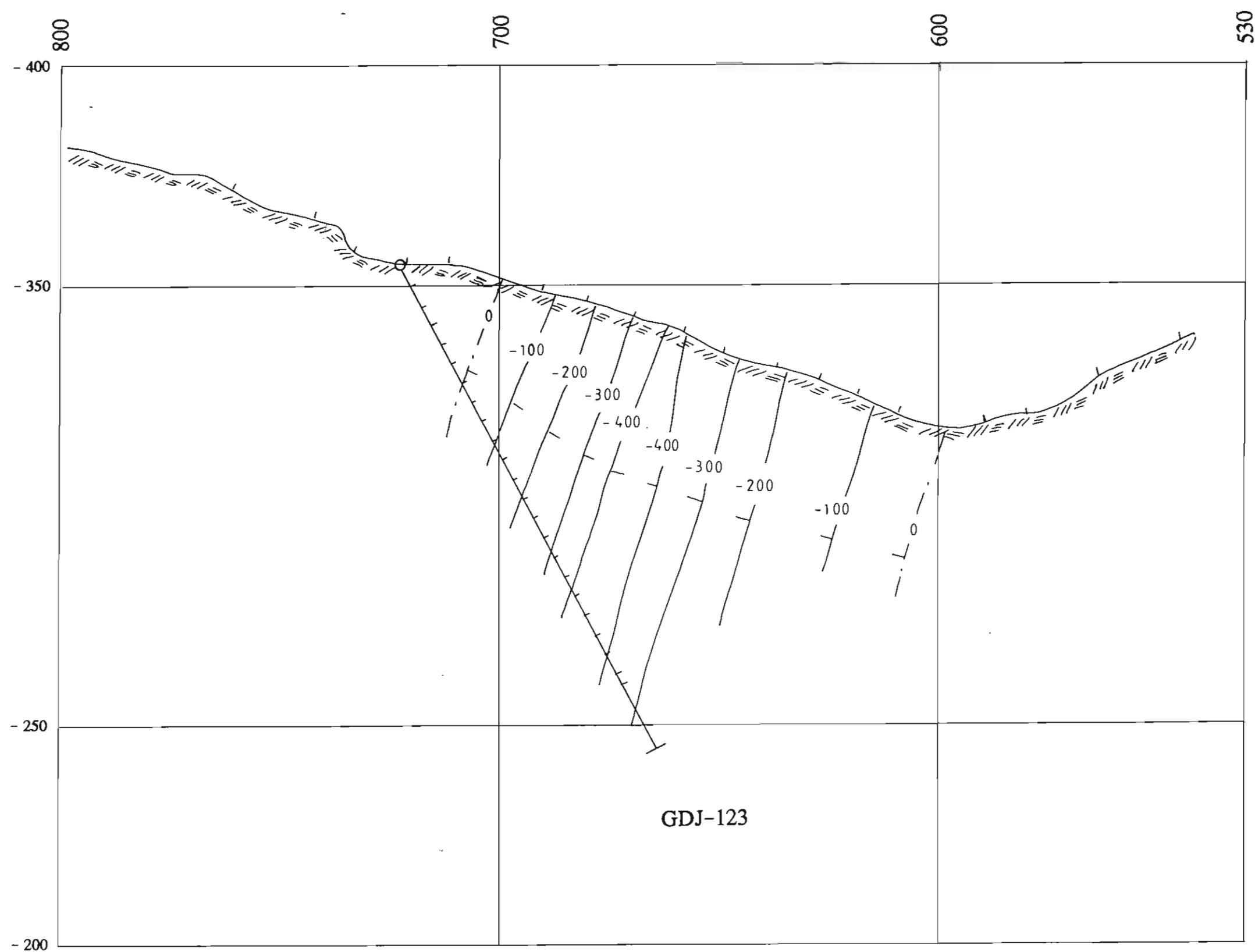
CHARGED POTENTIAL SECTION

Active grounding GDJ-122 / 73.5 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 123



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FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5800

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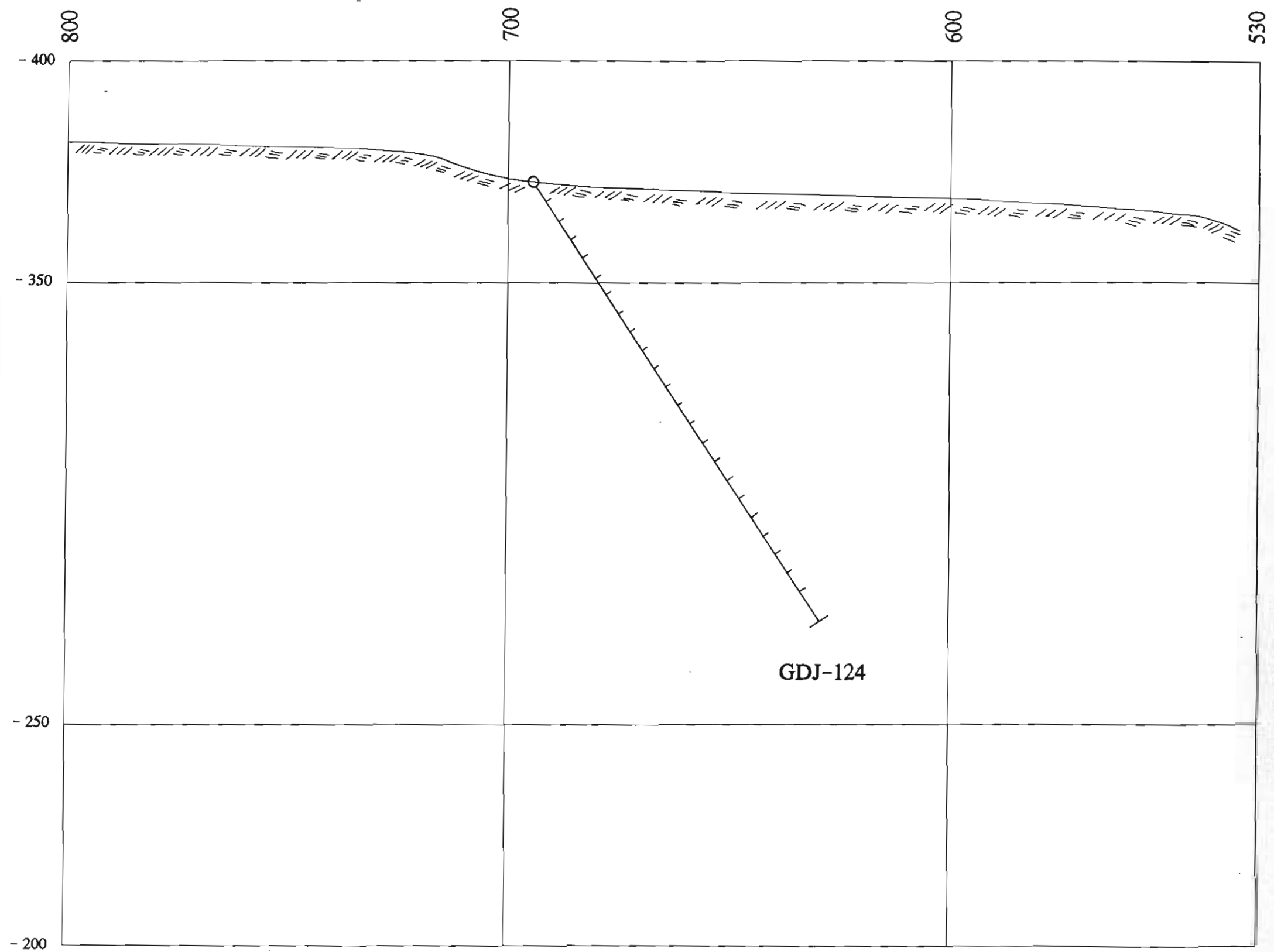
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Active grounding GDJ-122 / 73.5 m

NORSULFID A/S

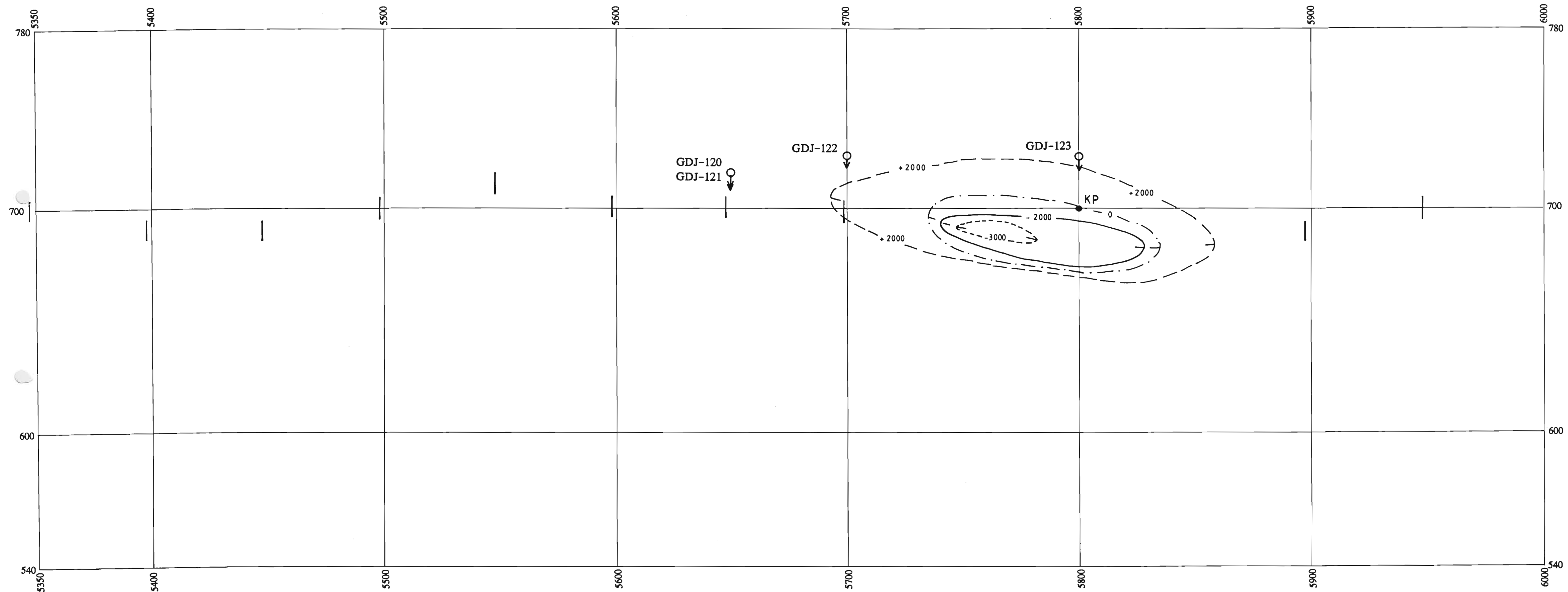
10.1992 / SMOY/aml

CORE HOLE: GDJ - 124



SUOMEN MALMI OY
FINNEXPLORATION

GODEJORD
GRONG, NORWAY
PROFILE 6150
1:1000
CHARGED POTENTIAL SECTION
Active grounding GDJ-122 / 73.5 m
NORSULFID A/S
10.1992 / SMOY/aml



SUOMEN MALMI OY
FINNEXPLORATION

GODEJORD

GRONG, NORWAY

1:1000

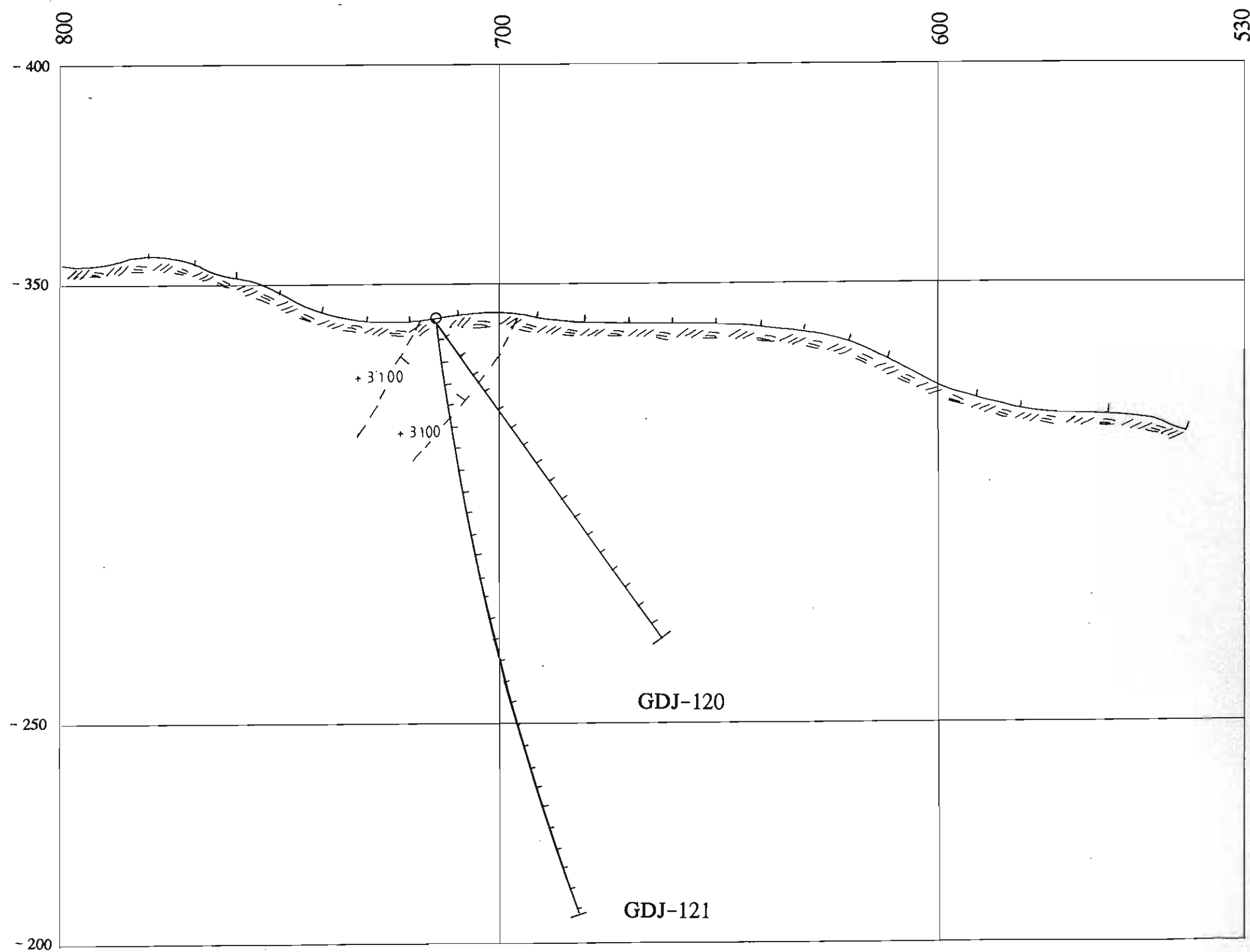
CHARGED POTENTIAL MAP

Active grounding GDJ-123 / 47.8 m

NORSULFID A/S

9.1992 / SMOY/aml

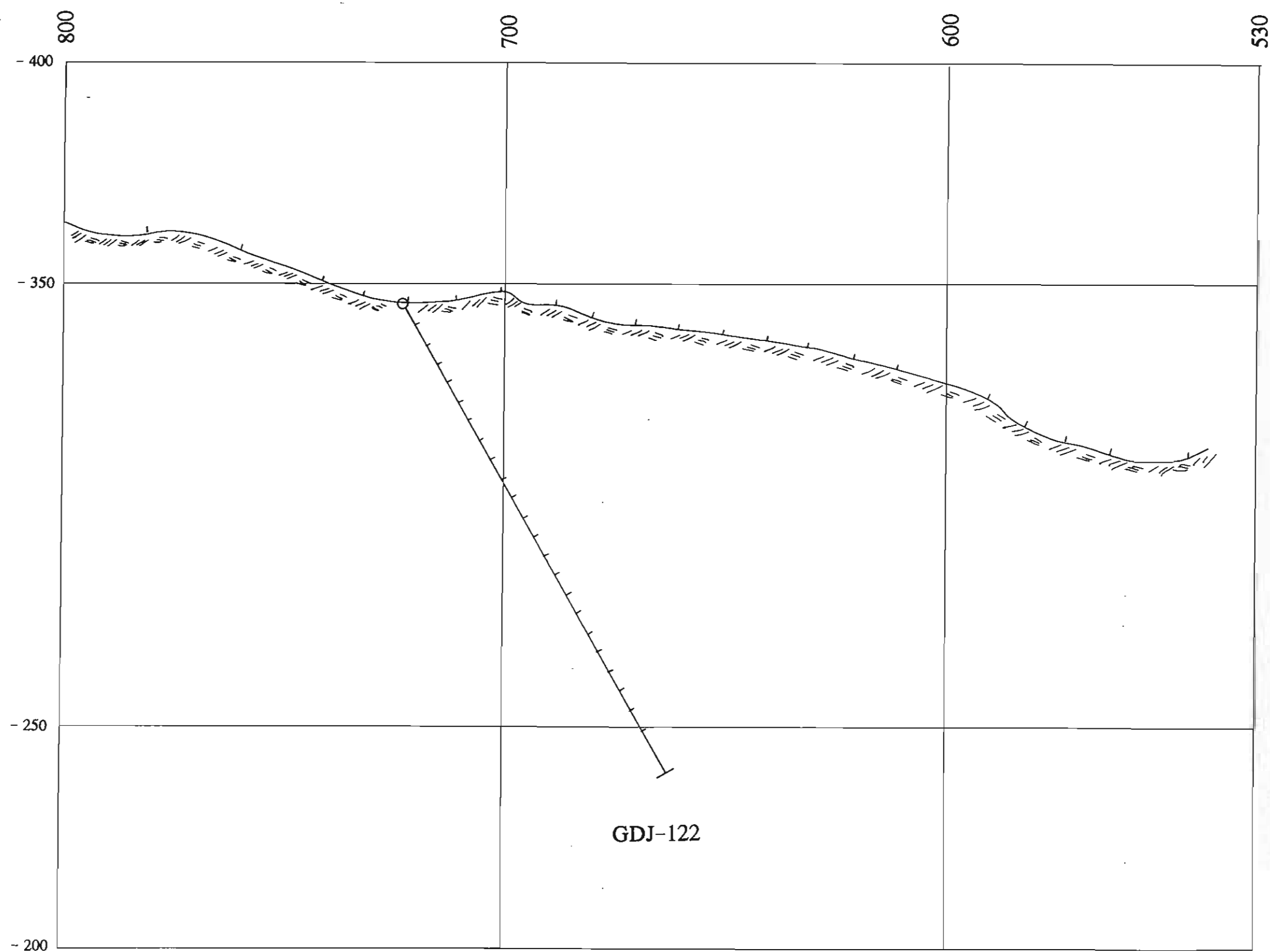
CORE HOLES: GDJ - 120
GDJ - 121



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GODEJORD
GRONG, NORWAY
PROFILE 5650
1:1000
CHARGED POTENTIAL SECTION
Active grounding GDJ-123 / 47.6 m
NORSULFID A/S
10.1992 / SMOY/aml

CORE HOLE: GDJ - 122



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GODEJORD

GRONG, NORWAY

PROFILE 5700

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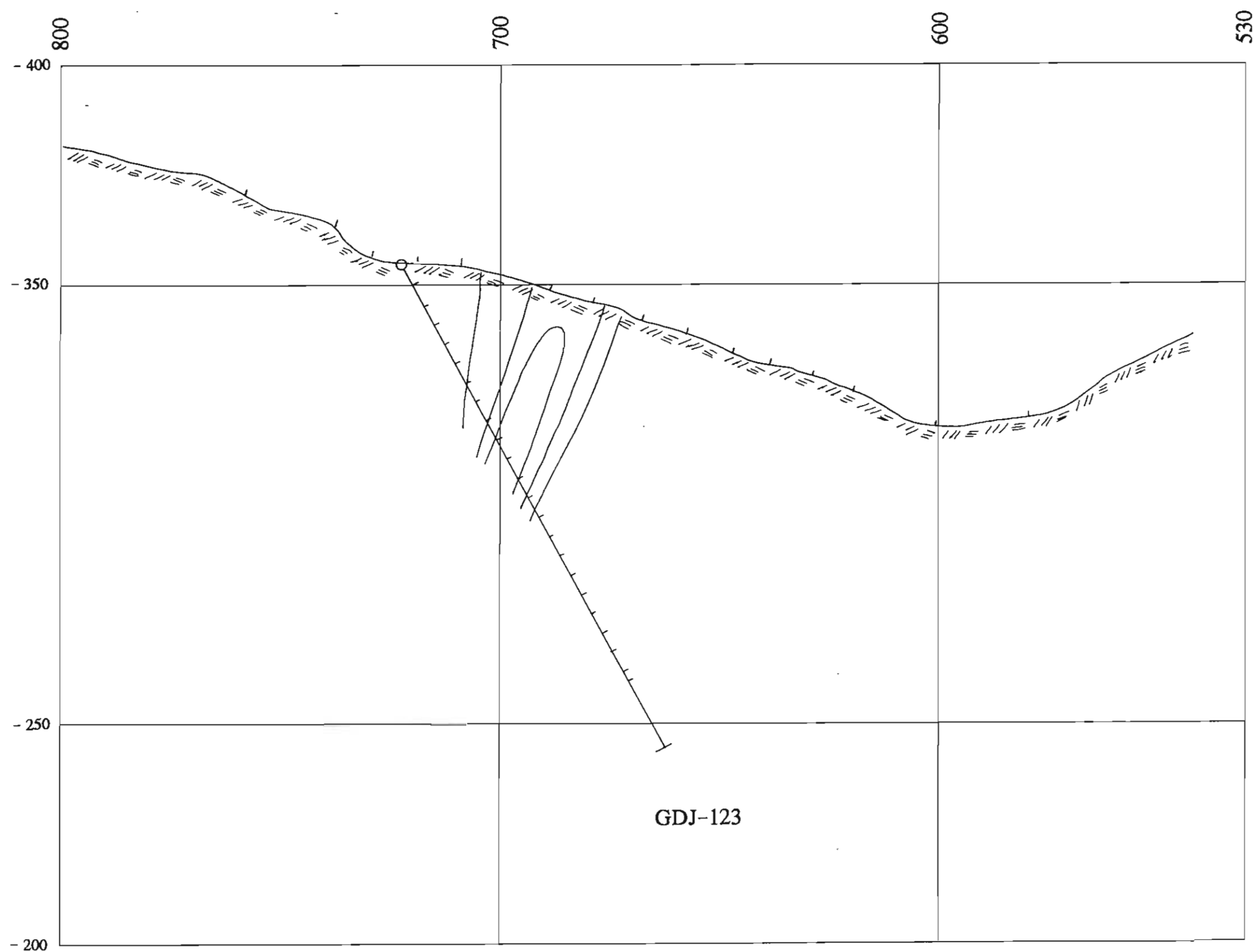
CHARGED POTENTIAL SECTION

Active grounding GDJ-123 / 47.6 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 123



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GODEJORD

GRONG, NORWAY

PROFILE 5800

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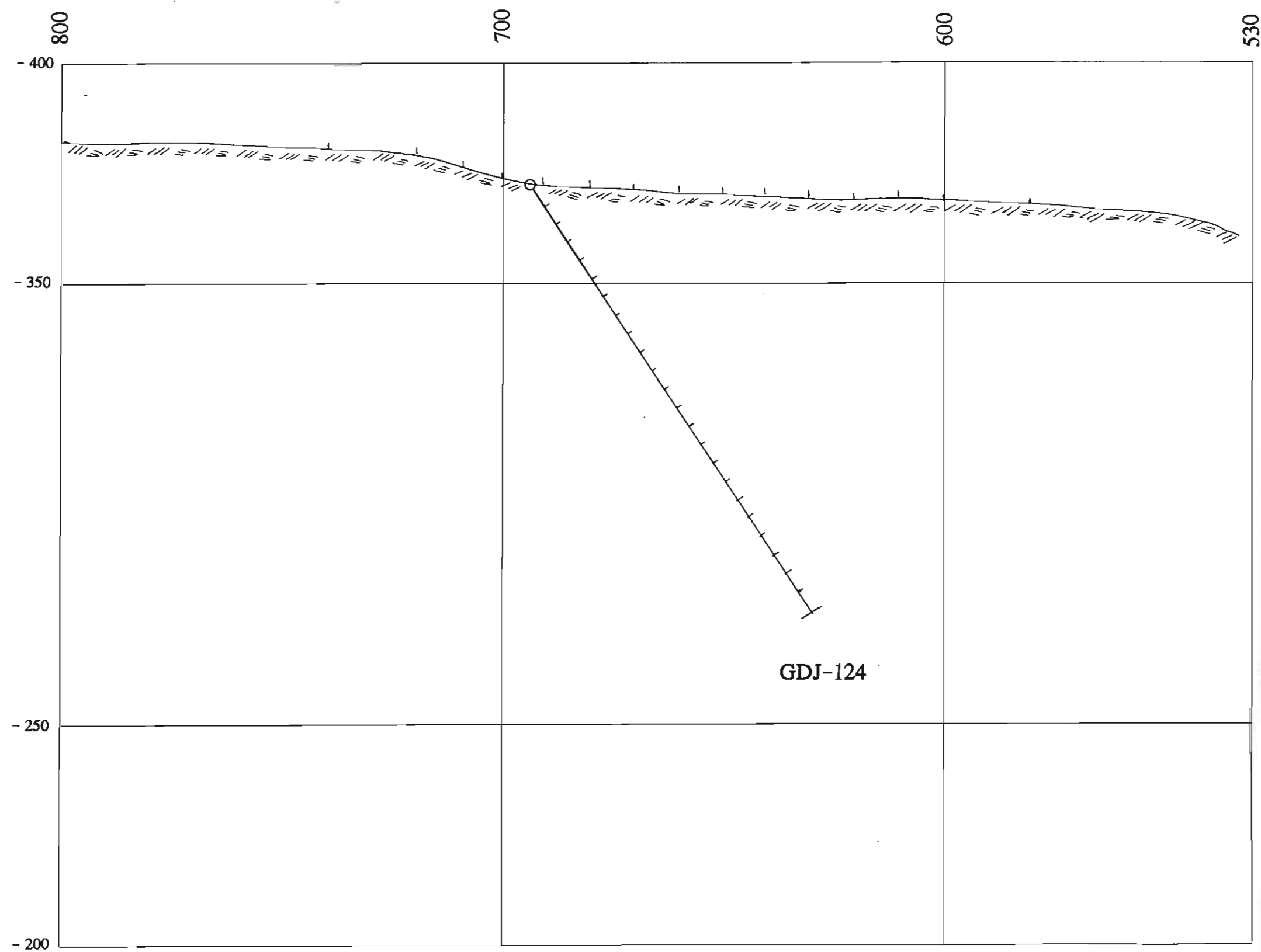
CHARGED POTENTIAL SECTION

Active grounding GDJ-123 / 47.8 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 124

**SUCMEN MALMØY
FINNEXPLORATION****GODEJORD**

GRONG, N O R W A Y

PROFILE 6150

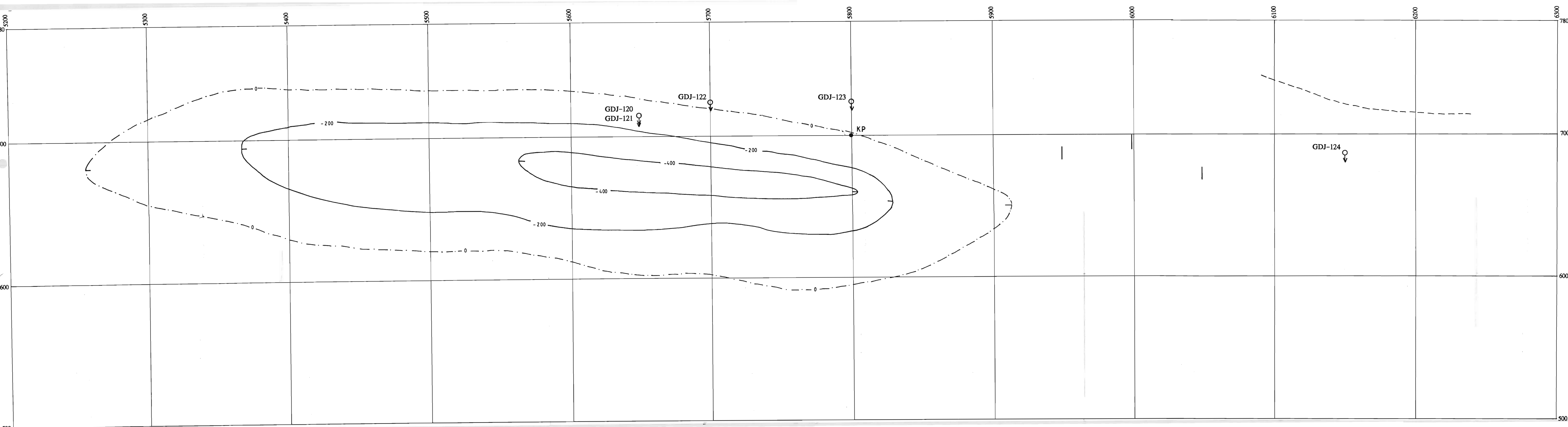
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CHARGED POTENTIAL SECTION

Active grounding GDJ-123 / 47.8 m

NORSULFID A/S

10.1992 / SMOY/aml

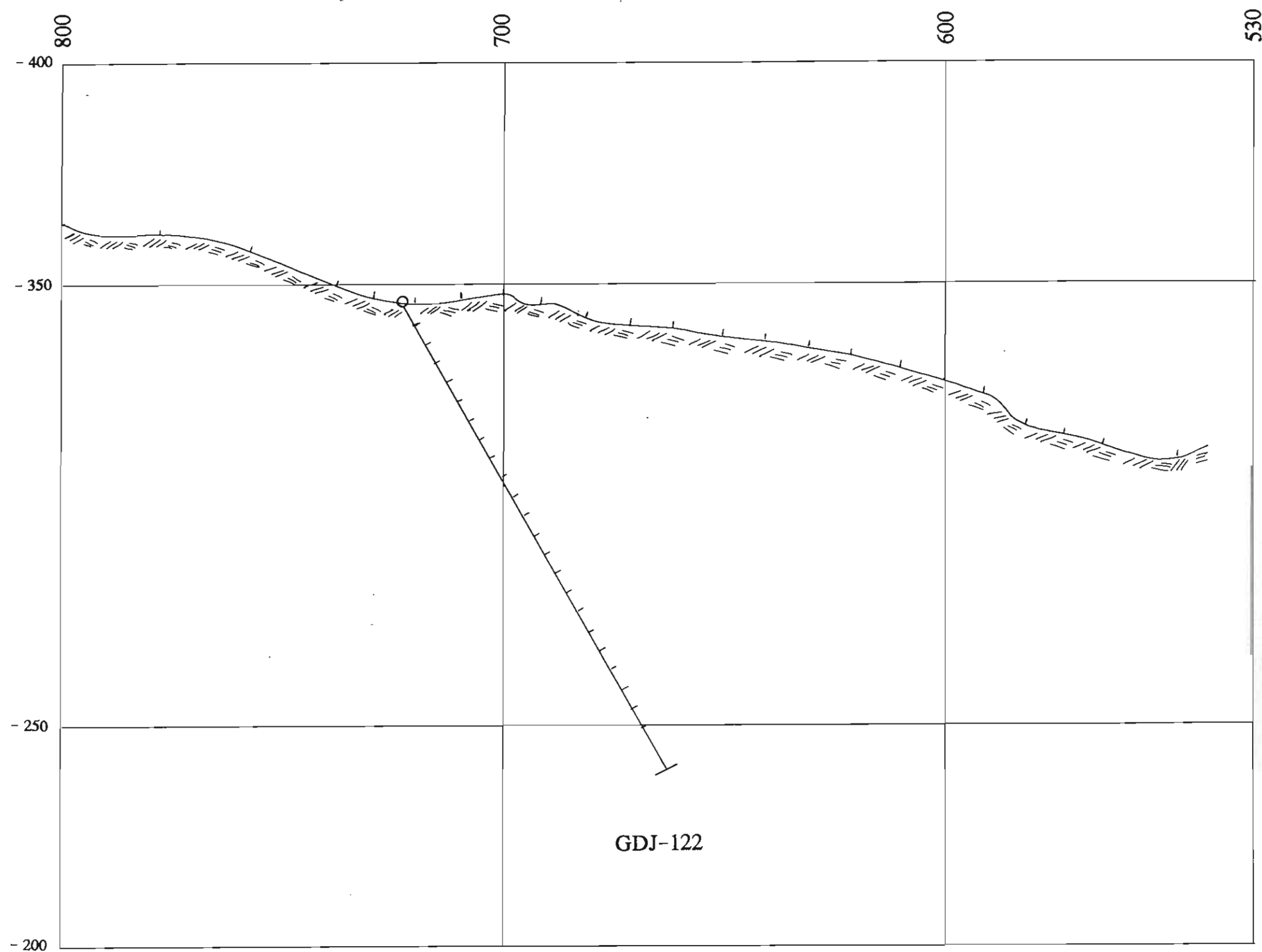


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GODEJORD
GRONG, NORWAY
1:1000
CHARGED POTENTIAL MAP
Active grounding GDJ-123 / 93.6 m

NORSULFID A/S
9.1992 / SMOY/aml

CORE HOLE: GDJ - 122



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FINNEXPLORATION

GODEJORD

GRONG, N O R W A Y

PROFILE 5700

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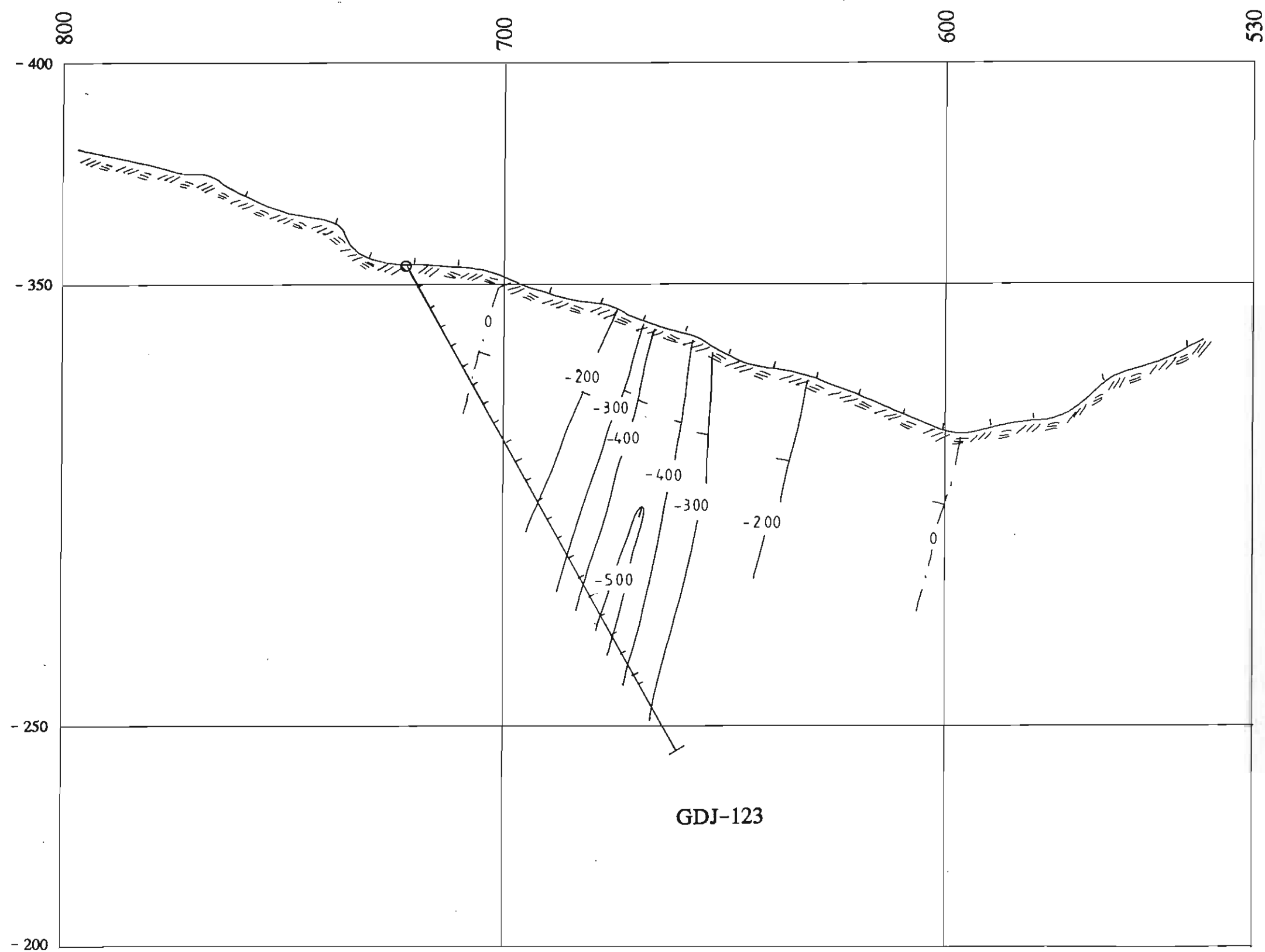
CHARGED POTENTIAL SECTION

Active grounding GDJ-123 / 93.6 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 123



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FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5800

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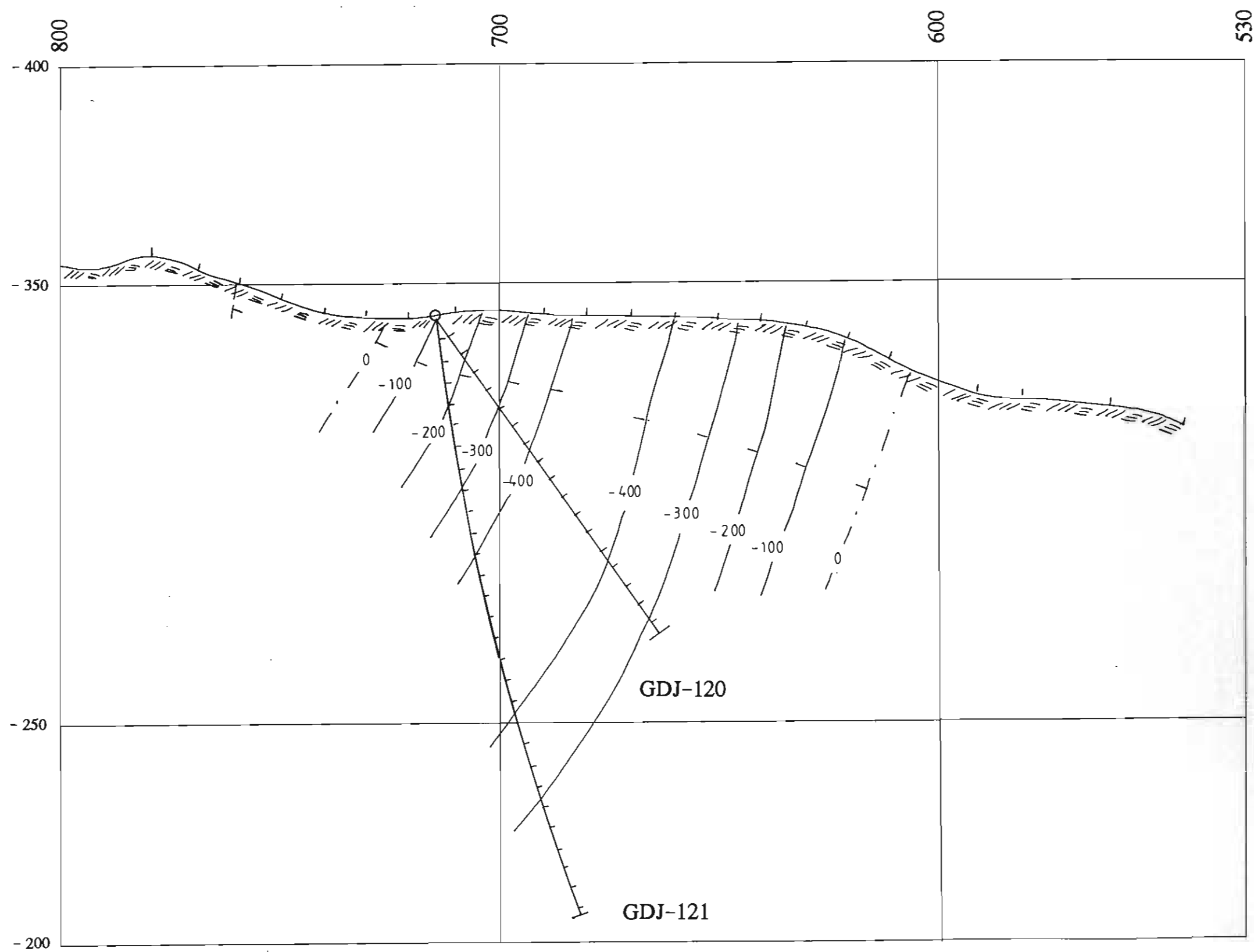
CHARGED POTENTIAL SECTION

Active grounding GDJ-123 / 93.6 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLES: GDJ - 120
GDJ - 121



SUOMEN MALMI OY
FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5650

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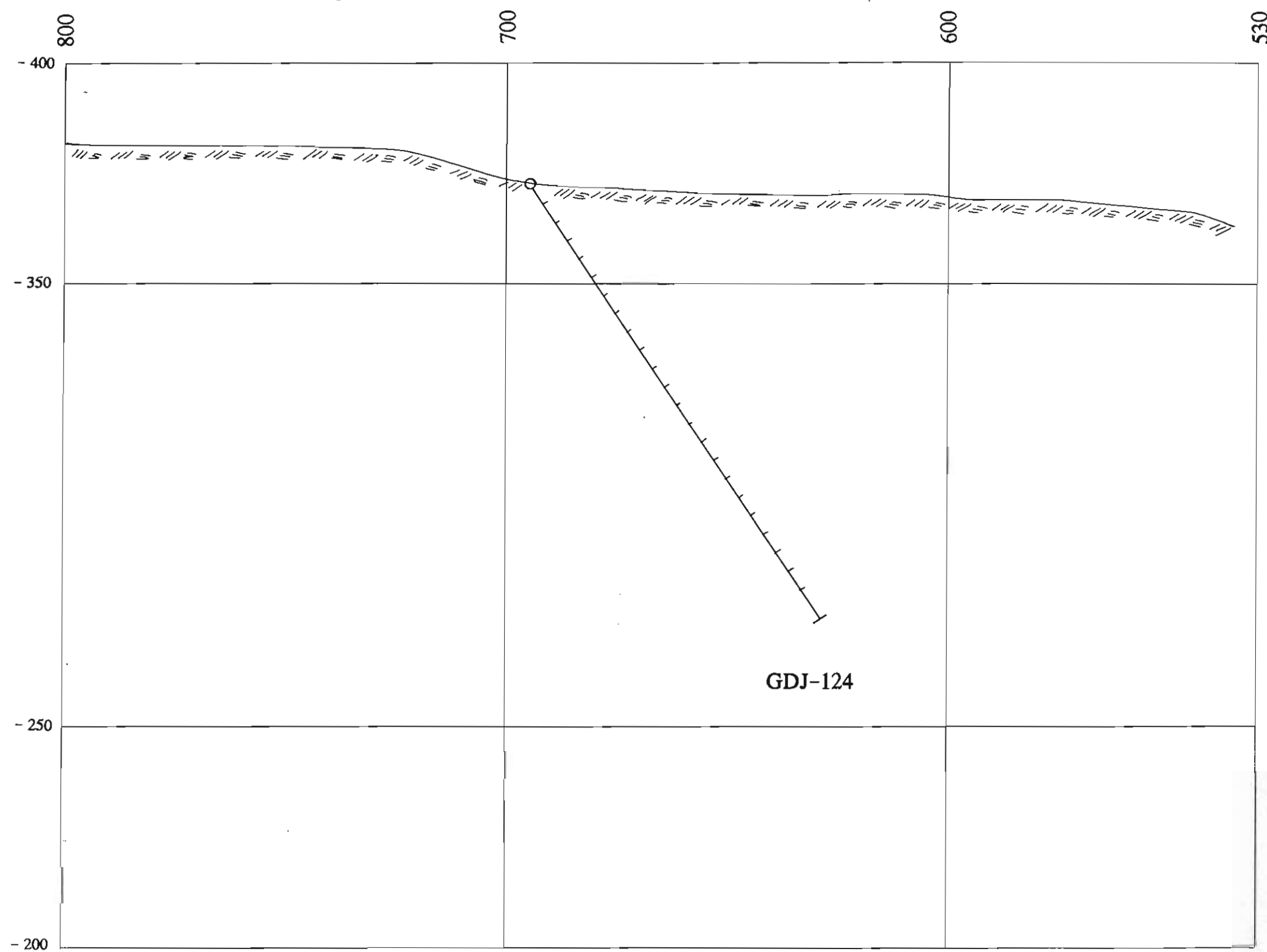
CHARGED POTENTIAL SECTION

Active grounding GDJ-123 / 93.6 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 124



SUOMEN MALMI OY
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GODEJORD

GRONG, NORWAY

PROFILE 6150

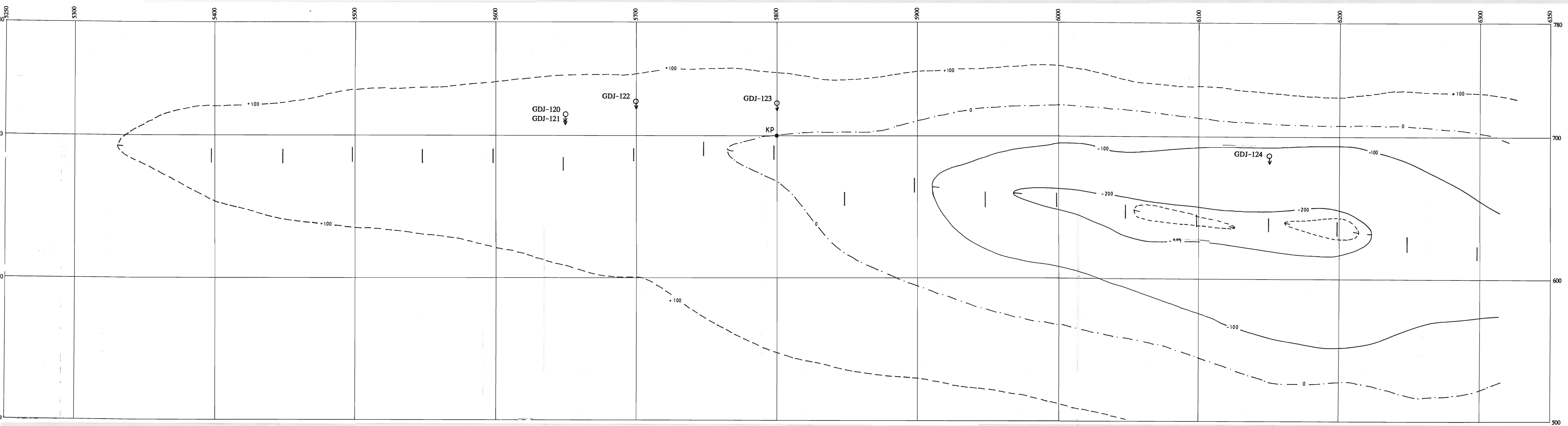
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CHARGED POTENTIAL SECTION

Active grounding GDJ-123 / 93.6 m

NORSULFID A/S

10.1992 / SMOY/aml

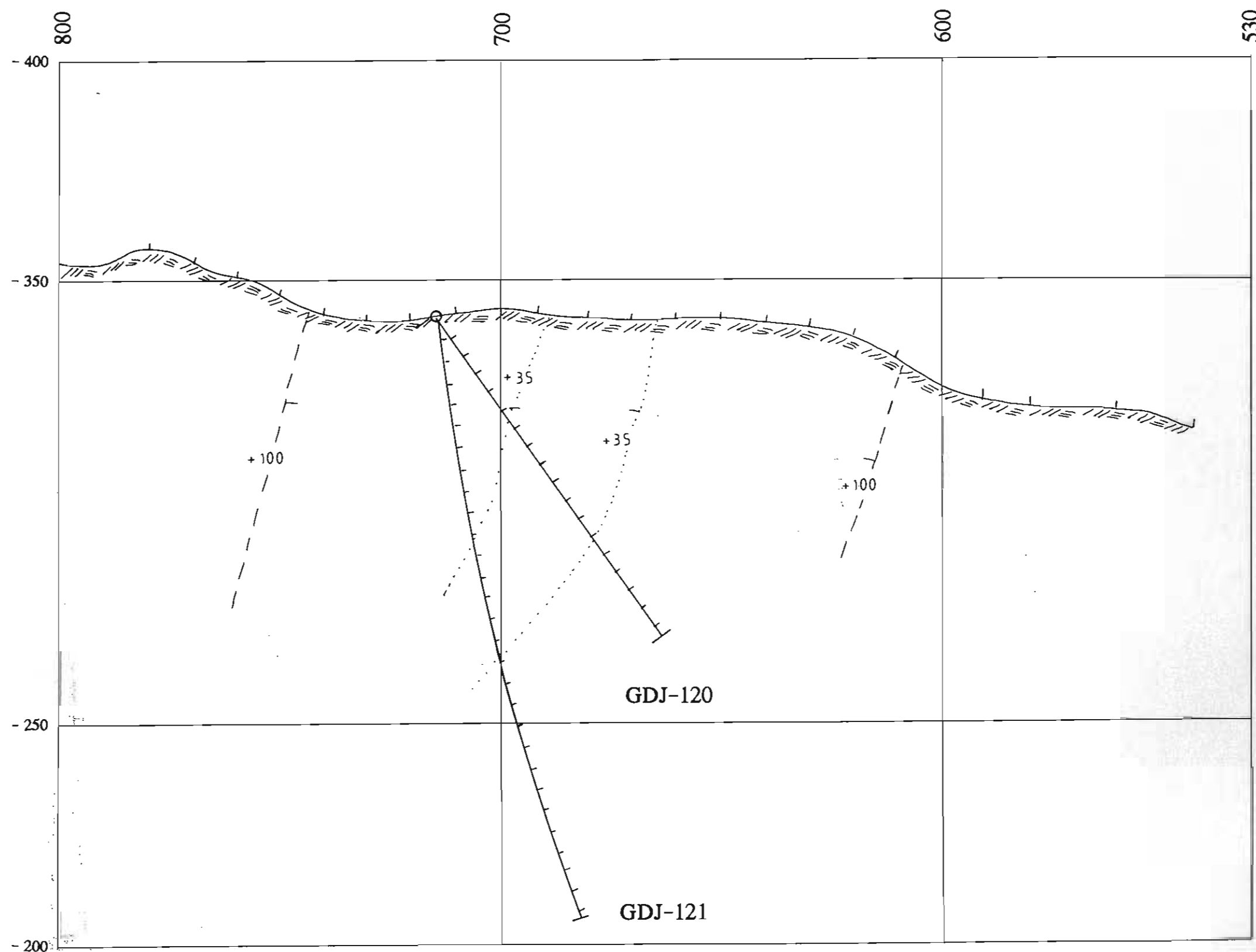


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FINNEXPLORATION

GODEJORD
GRONG, NORWAY
1:1000
CHARGED POTENTIAL MAP
Active grounding GDJ-124 / 63.6 m

NORSULFID A/S
9.1992 / SMOY/aml

CORE HOLES: GDJ - 120
GDJ - 121



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FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5650

1:1000

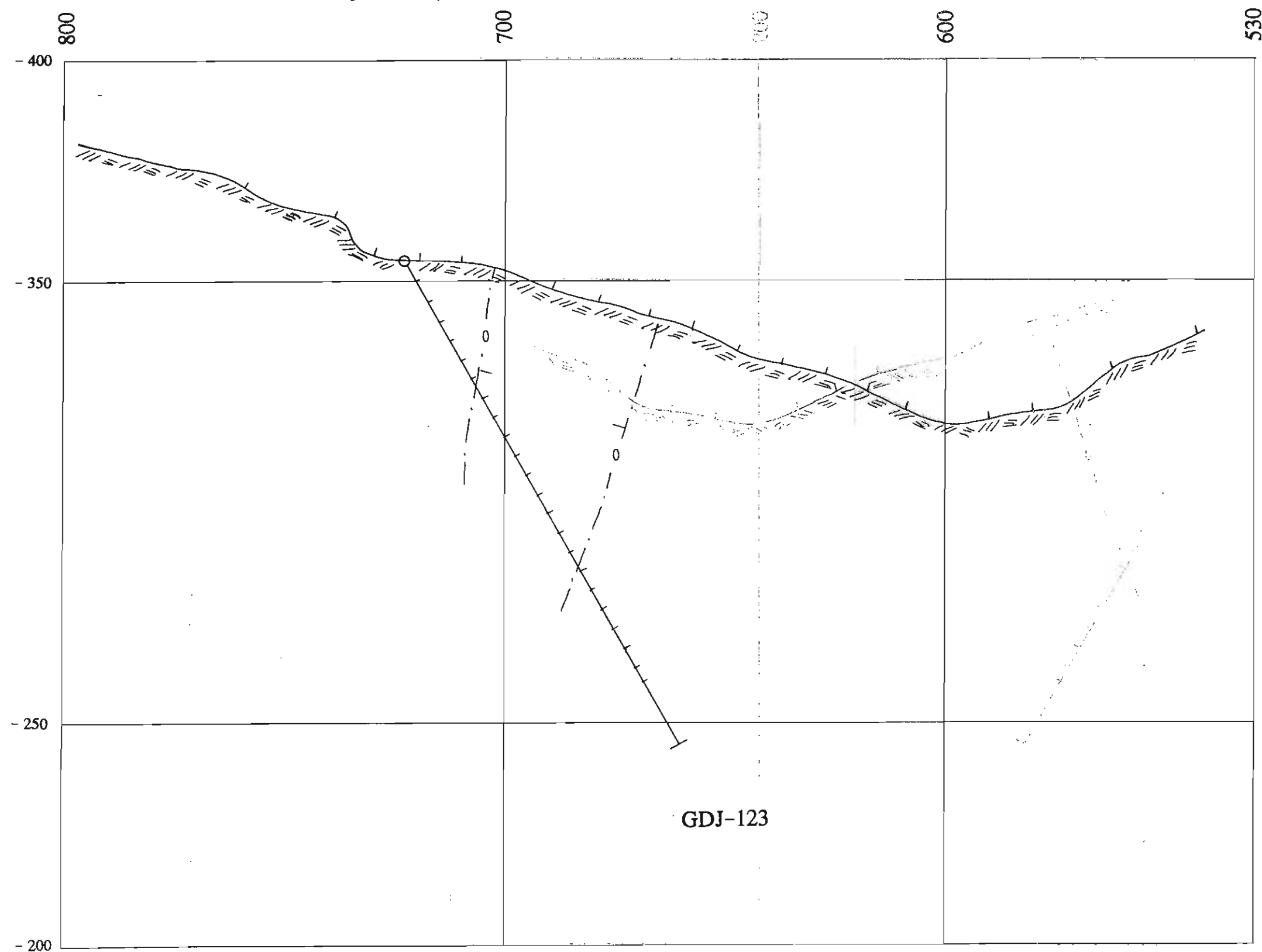
CHARGED POTENTIAL SECTION

Active grounding GDJ-124 / 63.6 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 123



SUOMEN MALMI OY
FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5800

1:1000

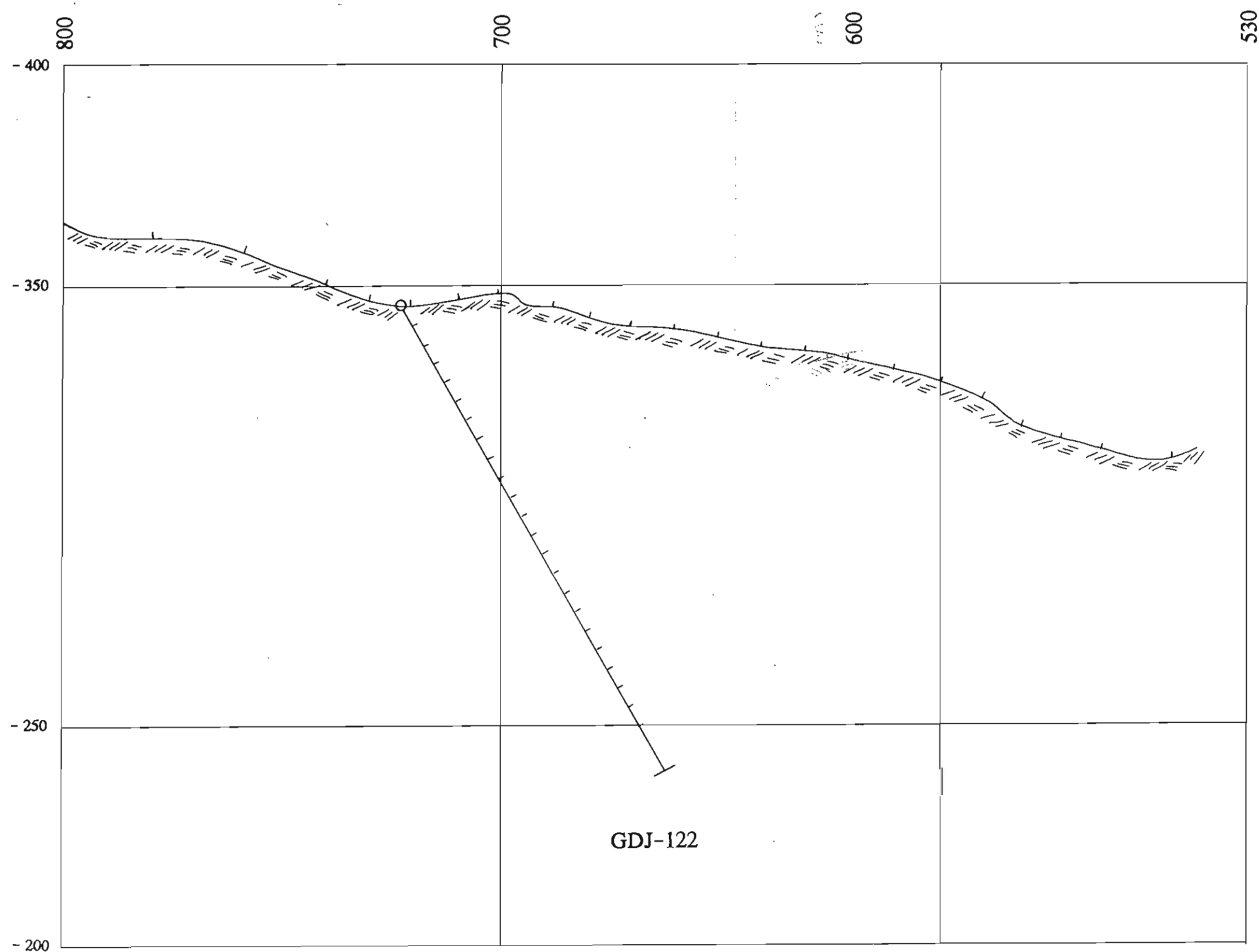
CHARGED POTENTIAL SECTION

Active grounding GDJ-124 / 63.6 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 122



SUOMEN MALMI OY
FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 5700

1:1000

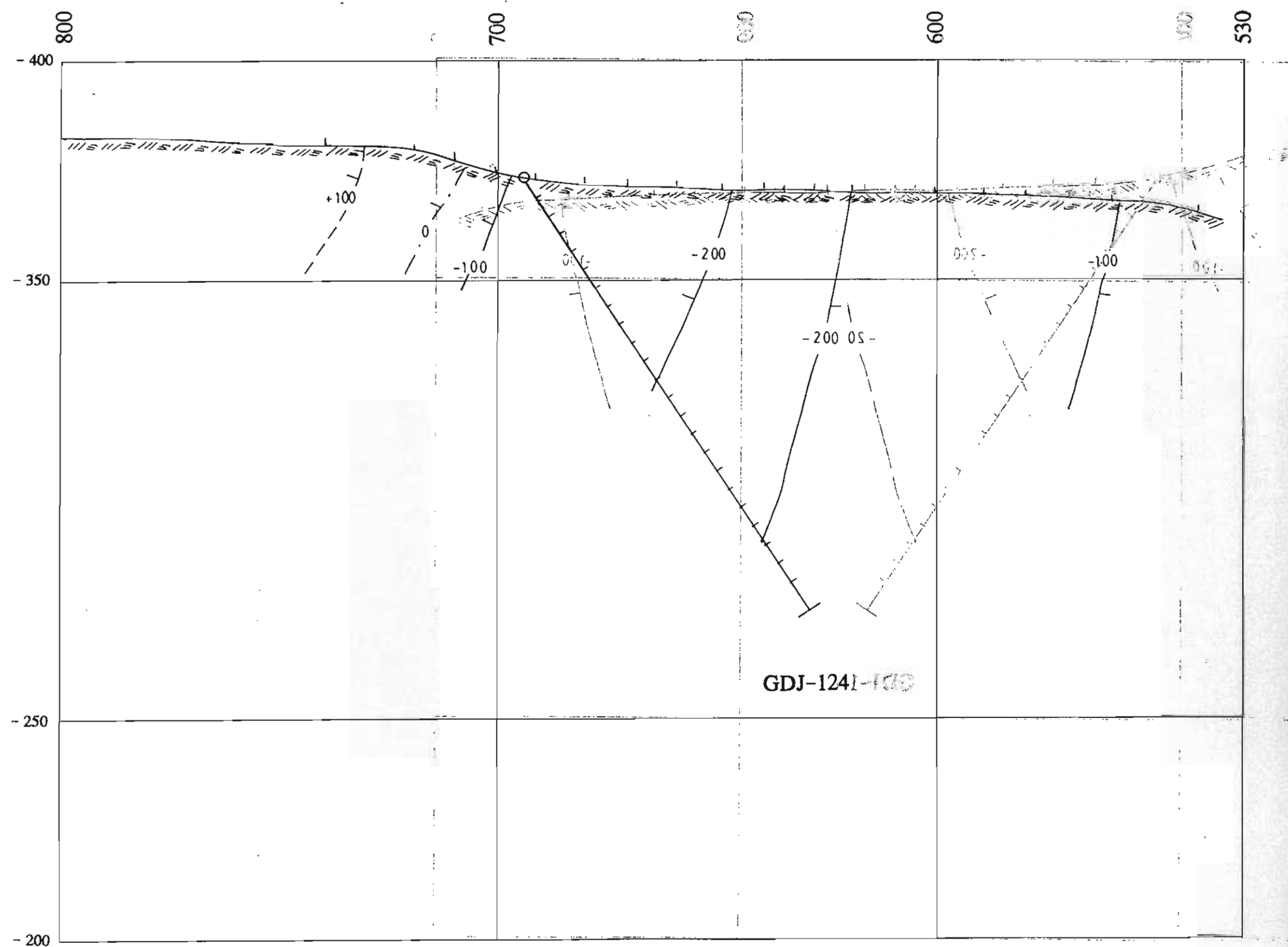
CHARGED POTENTIAL SECTION

Active grounding GDJ-124 / 63.6 m

NORSULFID A/S

10.1992 / SMOY/aml

CORE HOLE: GDJ - 124



SUGMEN MALMI ØY
FINNEXPLORATION

GODEJORD

GRONG, NORWAY

PROFILE 6150

1:1000

CHARGED POTENTIAL SECTION

Active grounding GDJ-124 / 63.6 m

NORSULFID A/S

10.1992 / SMOY/aml