



Bergvesenet

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Rapportarkivet

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Tittel Exploration 1992, along the Skogfoss arch in Pasvik, Finnmark. Oksfjell, Svartfjell, Finntjørn areas. Apendix D. Tecnical report for ground geophysical surves in Skogfoss, Pasvik				
Forfatter Hudson- Edwards, Karen Hodges, Daryl		Dato Nov 1992	Bedrift Sulfidmalm A/S	
Kommune Sør-Varanger	Fylke Finnmark	Bergdistrikt Troms og Finnmark	1: 50 000 kartblad 24334 23331	1: 250 000 kartblad Kirkenes
Fagområde Geologi Geofysikk Geokjemi Boring		Dokument type Rapport	Forekomster Oksfjell Svartfjell Finntjørn	
Råstofftype Malm/metall		Emneord Ni Cu Co S		
Sammendrag Dette er tekstdelen til en stor samlerapport fra arbeidene innen mutingsområdene i Skogfoss - Oksfjellområdet i Pasvik. BV 3842 Tekst del med figurer og tabeller. BV 3843 Apendix A. Summary of Oksfjell 1992 Drilling BV 3844 Apendix B. Drill log and sections BV 3845 Apendix C. A report on a combined helicopter-borne Mag, EM and VLF-EM survey in Pasvik. BV 3846 Apendix D. Tecnical report for ground geophysical surves in Skogfoss, Pasvik				

TECHNICAL REPORT FOR GROUND
GEOPHYSICAL SURVEYS IN SKOGFOSS,
PASVIK, FINNMARK, NORWAY

Prepared by Suomen Malmi Oy Finnexploration
on behalf A/S Sulfidmalm, Kristiansand, Norway


Hannu Silvennoinen

September 3, 1991

SUOMEN MALMI OY

FINNEXPLORATION



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1. INTRODUCTION

The ground geophysical surveys were carried out according to the Client's instructions during the period July 22 - August 15, 1991. The contact persons of the Client were Ms. Karen Hudson and Mr. Tony Green.

The survey crew consisted of a foreman and three observers. Mr. Hannu Silvennoinen was responsible for the technical back-up of the project.

The quantity of the field work was:

- base line 4.05 km
- orientation line 5.78 km
- slingram and magnetic survey 37.88 km

The preliminary results were plotted on site by a portable computer and a matrix printer. The final results and report were compiled at SMOY Finn-exploration's office in Espoo, Finland.

2. LINE CUTTING

The base line was cut with the help of a Sokkisha Red Mini instrument for surveying both the direction and the distance (see app. 2). The orientation lines were made visually. The accuracy of the base line is better than ± 1 m and the accuracy of the orientation line is better than ± 5 m.

The NE-coordinates used are local and based on the Client's practise on site. All the lines are staked and labelled using these coordinates. Direction of the coordinate system differs approx. 3 to 4 degrees from the geographical coordination.

3. EQUIPMENT AND FIELD PROCEDURE

For the magnetic survey a proton magnetometer Scintrex MP-2 with a KTP-84 datalogger was used both as a base station and a survey instrument. The resolution of the instrument is 1 nT. A station spacing of 12.5 metres and a line spacing of 50 metres were used.

For the slingram survey an APEX MaxMin I-10 equipment with MMC data logger was used, with a coil spacing of 100 metres and frequencies of 110, 440 and 1770 Hz.

4. DATA PROCESSING AND PRESENTATION

All the magnetic data was corrected using the base station data with the aid of a computer and a program developed by SMOY Finnexploration. The absolute accuracy of the final data is better than ± 5 nT and the proportional accuracy much better than this.

The corrected magnetic total field data was presented as a colour equipotential map on the scale of 1:5 000. The map is as app. 3.

A very few individual peaks were removed from the slingram data and plotted as profile maps. One map for each frequency was compiled. The maps are as app. 4 A-F.

Both the magnetic and slingram data were stored on diskettes and delivered to the Client. The format used is described in the first file of each diskette.

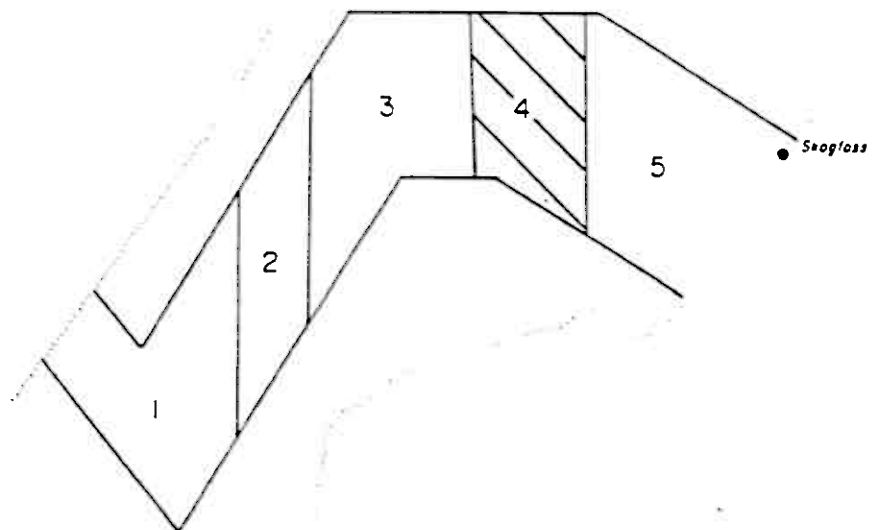
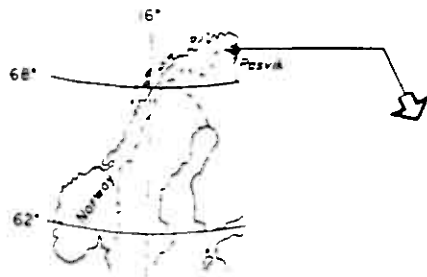
5. CONCLUSIONS

Except the minor difficulties in carrying out the field work, the project was completed according to the plan and schedule. It seems to be very strong

anomalies on both results which forced us to use rather coarse scale in plotting. For final interpretation, maps with fine scales may be necessary to produce in order to emphasize the features of interest, which may not be seen in the maps produced.

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LOCATION MAP



E = 94.00

E = 95.00

E = 96.00

E = 97.00

- N = 702.25

- N = 702.00

- N = 701.20

- N = 701.00

- N = 700.80

E = 94.00

E = 95.00

E = 96.00

E = 97.00



NOTE:

The NE-coordinates are local ones and their direction differs from the Geographical coordination appr. 2 degrees clockwise

- BASE LINE
- - - ORIENTATION LINE (pickets with aluminium labels)
- . - . - ORIENTATION LINE (no pickets)

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PASVIK NORWAY

1: 00

24331V

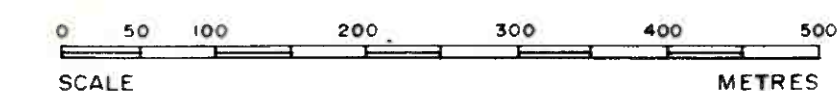
CUT LINES

28.8.1991 /SMOY

7702300 N
7702200 N
7702100 N
7702000 N
7701900 N
7701800 N
7701700 N
7701600 N
7701500 N
7701400 N
7701300 N
7701200 N
7701100 N
7701000 N
7700900 N
7700800 N
7700700 N

594400E 594600E 594800E 595000E 595200E 595400E 595600E 595800E 596000E 596200E 596400E 596600E 596800E 597000E 597200E 597400E 7700700N

Pasvik 1:5000
Filtered Ground Mag
(60m Low-Pass Filter)
ICM = 500m
Datum = 33600m



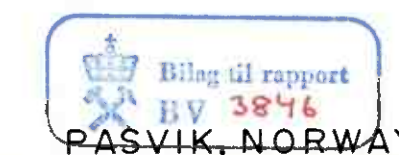
APPENDIX 3

A/S SULFIDMALM

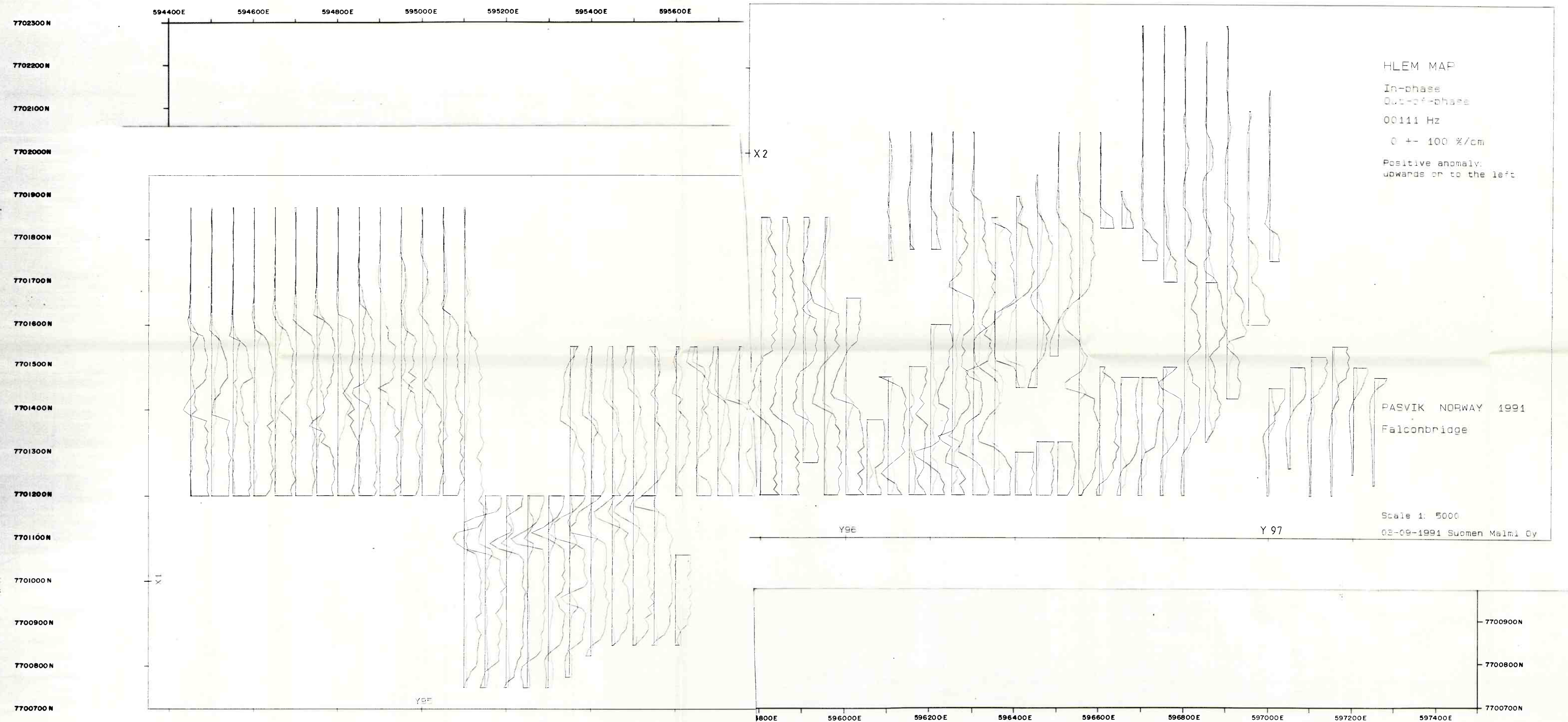
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OKSFJELL EAST AREA
FILTERED MAG PROFILES

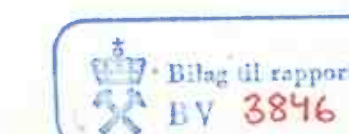
Ground Survey



Project No 015-904	N.T.S. No 24331 V, 2333 I	Scale 1:5000
Date	Geologist K.A.H.	Drafted by

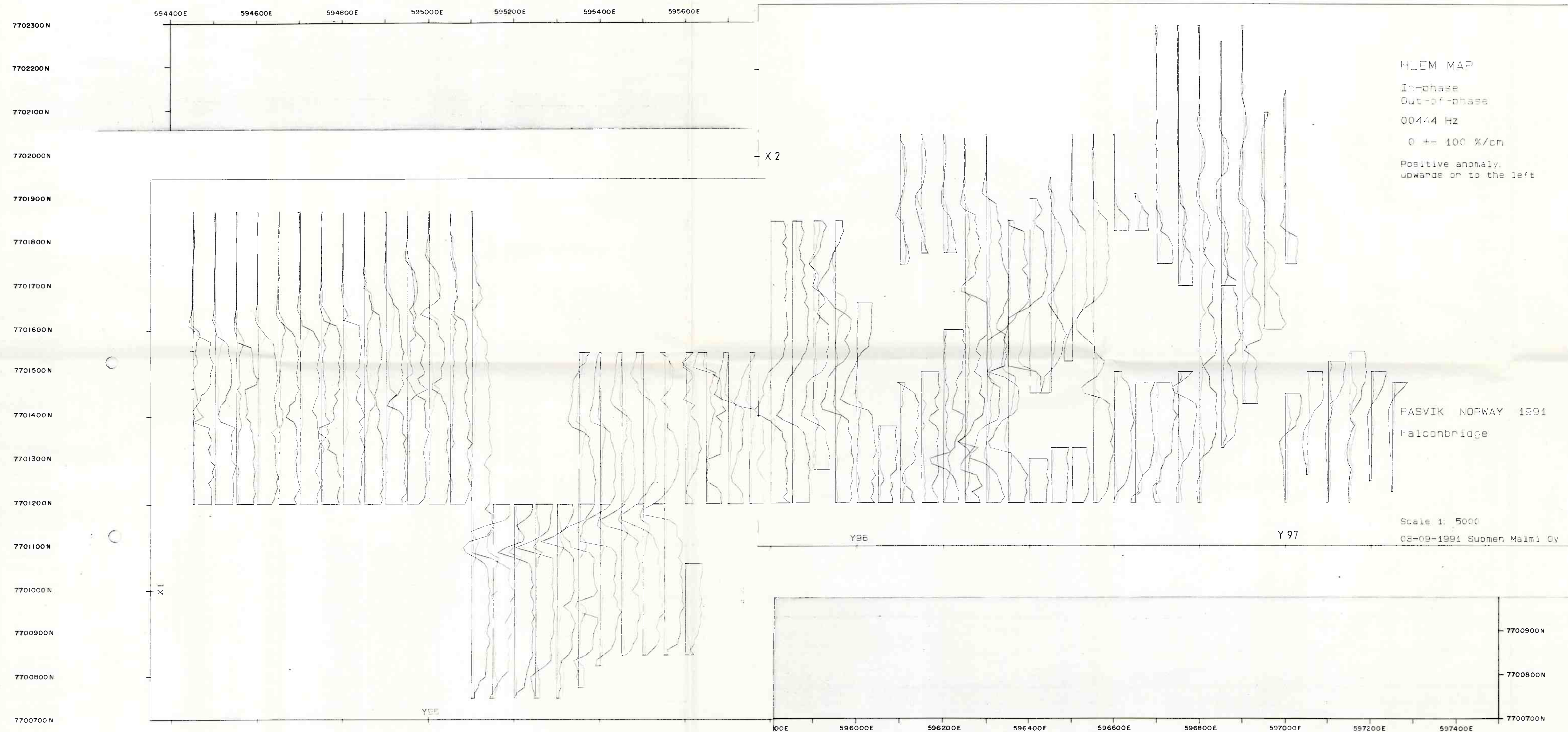


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Date	Geologist K.A.H.	Drafted by

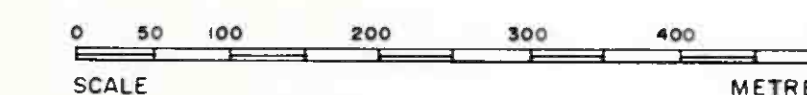
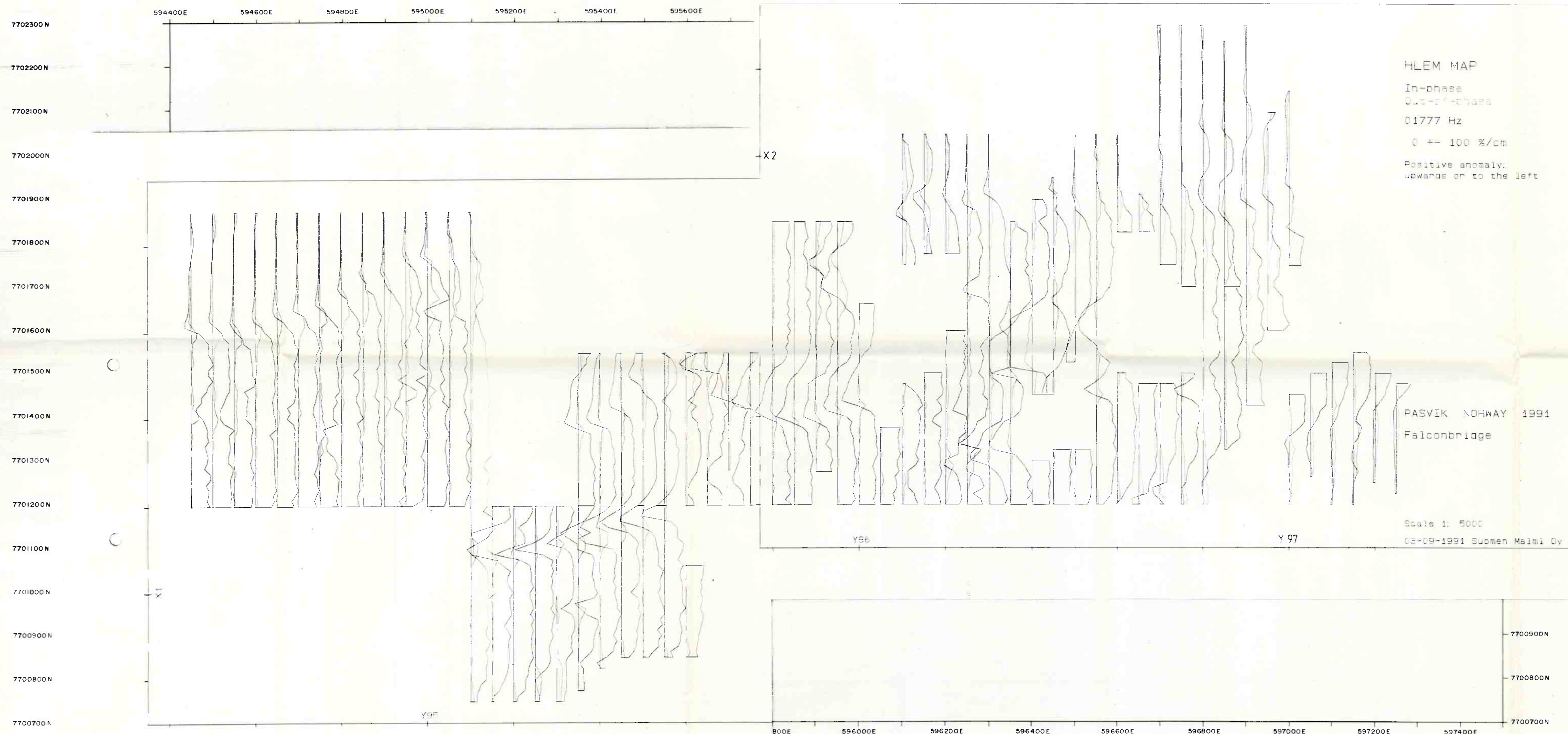


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