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Titel

GEOPHYSICAL MEASUREMENTS IN GRONG,
NORWAY DURING JUNE 1992

Forfatter	Dato	År	Bedrift (oppdragsgiver og/eller oppdragstaker)
Arto Julkunen	30.06	1992	Suomen Malmi OY Finnexploration

Kommune	Fylke	Bergdistrikt	1: 50 000 kartblad	1: 250 000 kartblad
Grong	Nord-Trøndelag		18234	Grong

Fagområde	Dokument type	Forekomst(er) (forekomst, gruvefelt, undersøkelsesfelt)
Geofysikk		Godejord
Råstoffgruppe	Råstofftype	
Malm/metall	Cu Kis	

Sammendrag, innholdstegnelse eller innholdsbeskrivelse

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***GEOPHYSICAL MEASUREMENTS IN GRONG,
NORWAY DURING JUNE 1992***

Arto Julkunen, M.Sc (Eng.)

Espoo 30.6.1992

SUOMEN MALMI OY
FINNEXPLORATION 

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1. INTRODUCTION

According to the quotation 221/92 003 to Norsulfid A/S Suomen Malmi Oy (SMOY) carried out geophysical measurements in Grong, Norway, in the Godejord area. The measurements took place during the period 9.6.1992-16.6.1992. The work was done under leadership of Mr. Aimo Hattula, Outokumpu Finnmines Oy Exploration. The field crew consisted of a foreman and two observers.

The number of MaxMin points was 2044 and the amount of magnetic points was 8219.

Locating of the survey lines was based on the existing grid made by the Client.

The location of the survey grid is shown in appendix 1.

2. EM MEASUREMENTS

The measurements were made with a MaxMin system, using a station separation of 20 m. Line separation was 50 m. Three frequencies were used: 110 Hz, 1760 Hz and 7040 Hz. The results are shown in appendix 2. as profiles.

3. MAGNETIC MEASUREMENTS

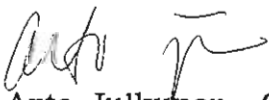
The measurement was made using Scintrex IGS-2 units for both field measurement and as base station.

The station separation was 5 m while the line separation was 50 m.

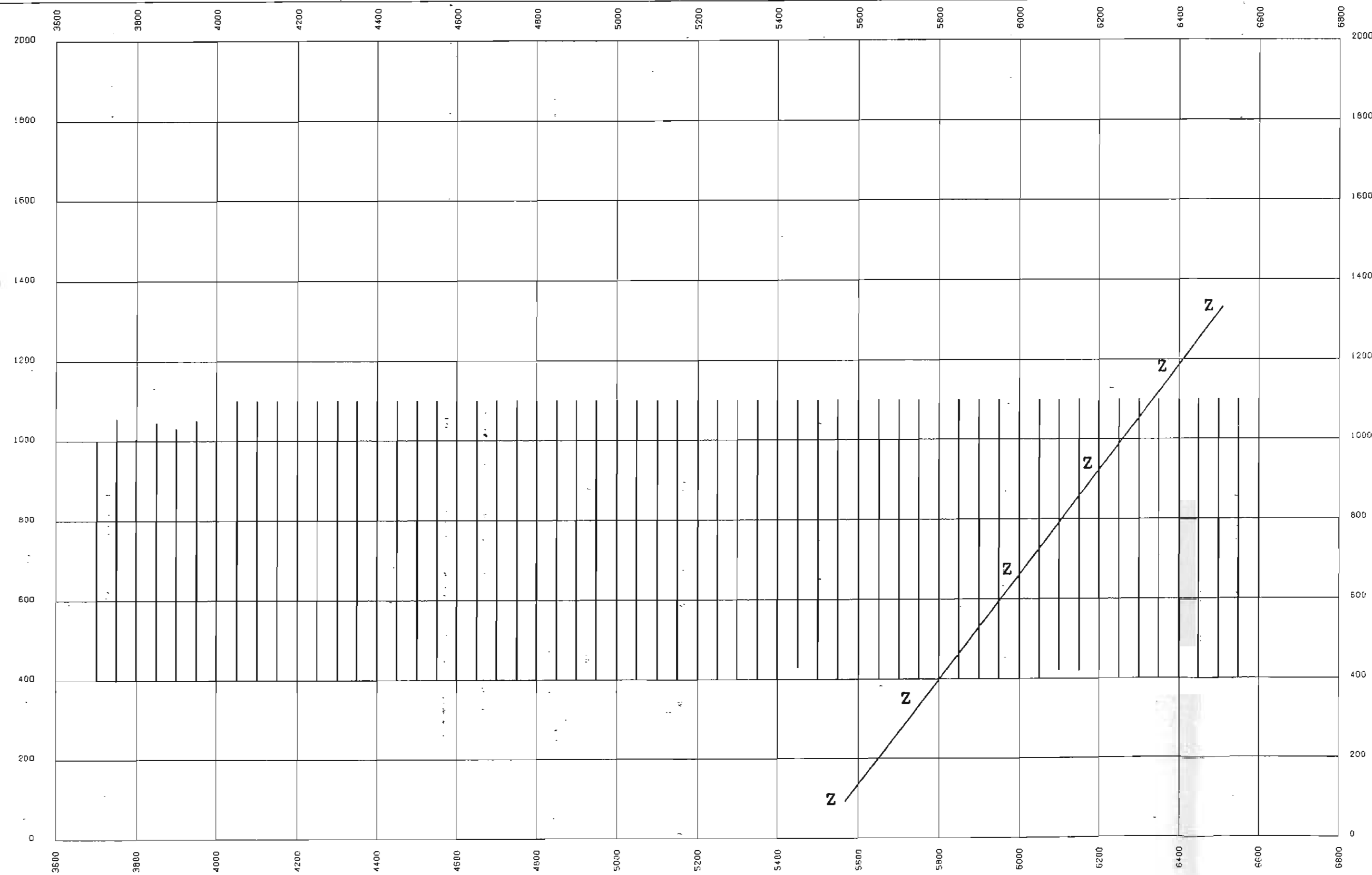
The results are shown as profiles and as colour maps (Appendices 3.1, 3.2 and 3.5). Also two shadow maps were made in order to recognise some discontinuity zones (Appendices 3.3 and 3.4).

The work succeeded well in accordance with the plans.

Suomen Malmi Oy
Measurements



Arto Julkunen, Geophysicist



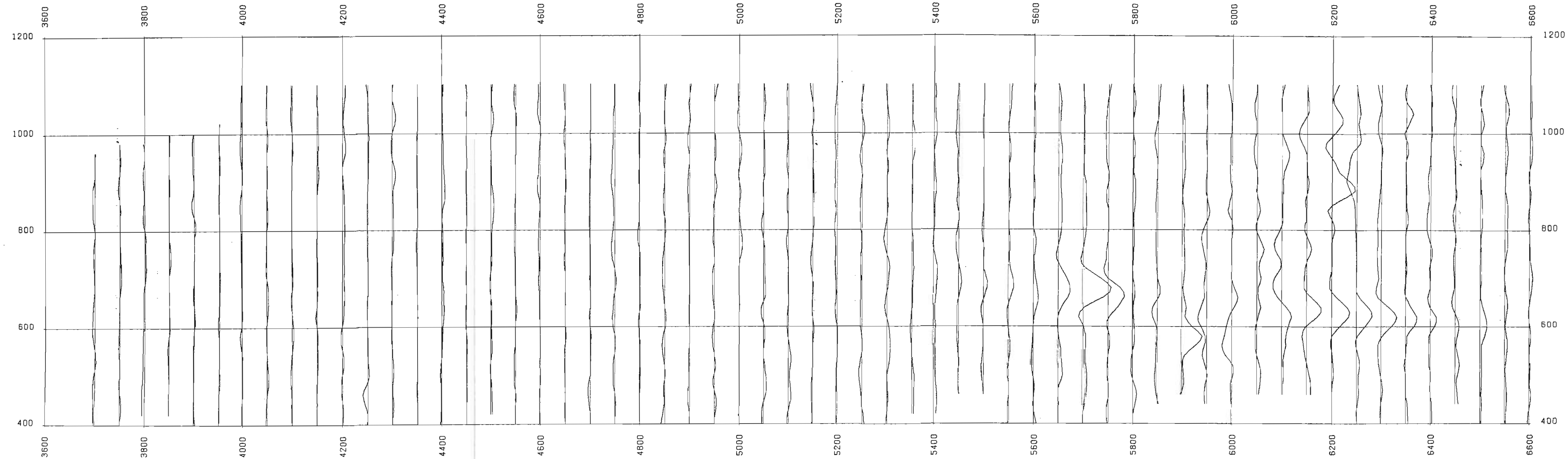
GRCNG

GODEJORD

Survey Grid
Z=Electric Cable

1:10000

SUOME MALMI OY

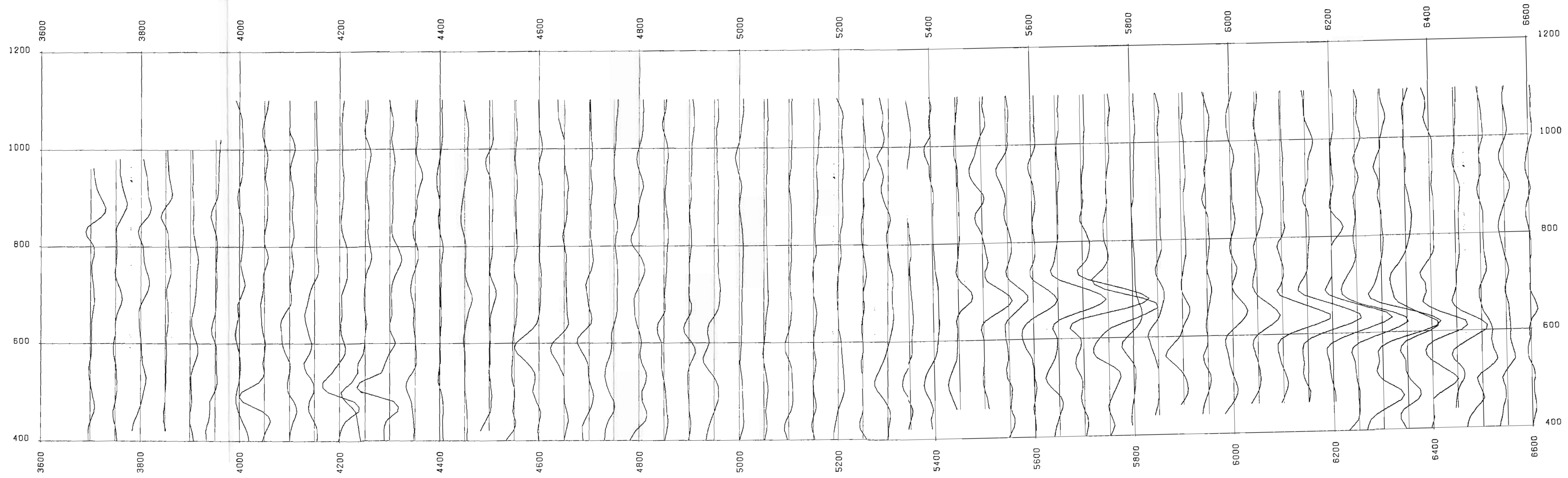


Appendix 2/2

GRONG GODEJORD
 Max-Min Slingram
 a=60 m
 1 cm = 20 %
 + <<---->> -
 f = 110 Hz Im

1:5000

Suomen Malmi Oy



GRONG GODEJORD
Max-Min Slingram
a=60 m
1 cm = 20 %
+ <<----->> -
f = 1760 Hz Re

1:5000

Suomen Malmi Oy



Appendix 2/4

GRONG GODEJORD

Max-Min Slingram

$a = 60 \text{ m}$

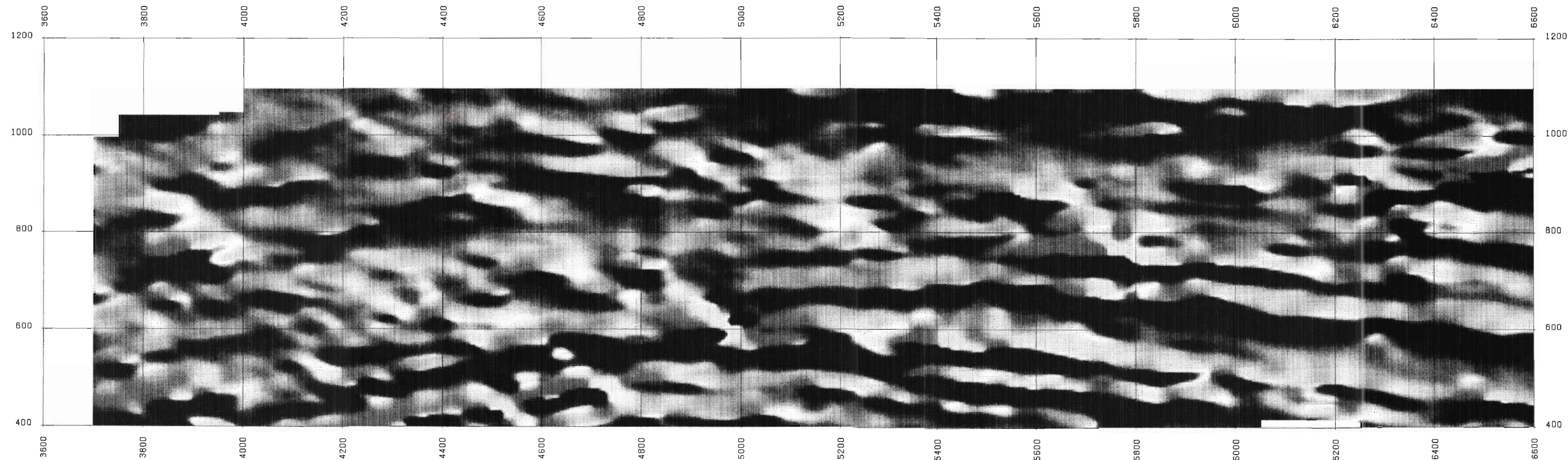
$1 \text{ cm} = 20 \%$

+ <<---->> -

$f = 1760 \text{ Hz Im}$

1:5000

Suomen Maailma



GRONG GODEJORD

Magnetic Map

Total Field

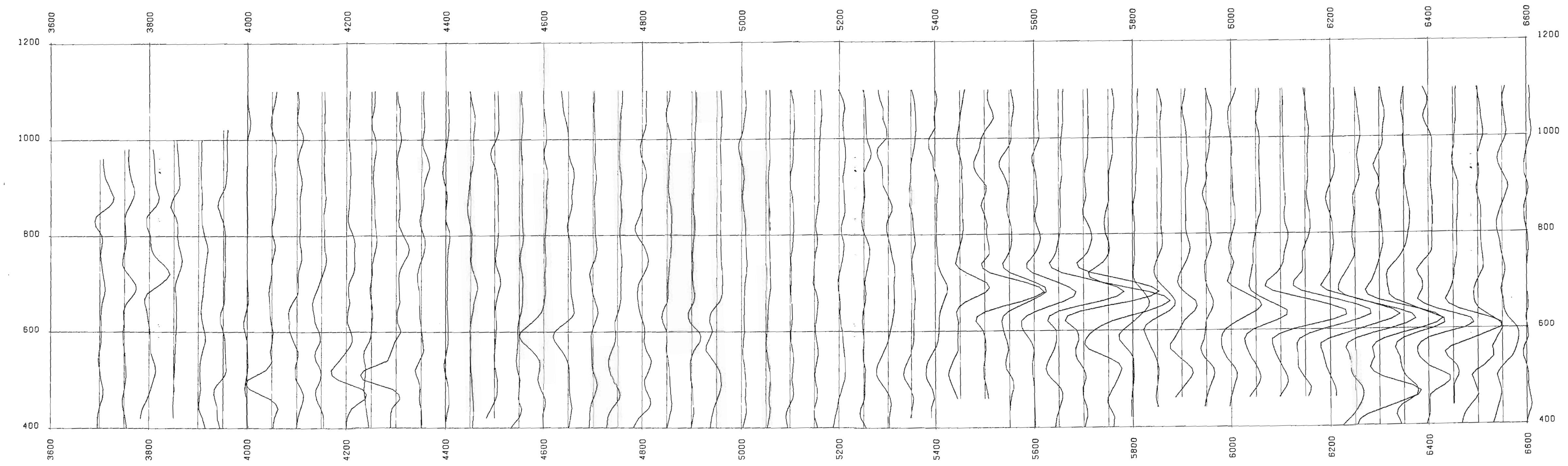
Shadow Map

Sun direction:

Dec= 40, Inc=60

1:5000

Suomen Malmi Oy

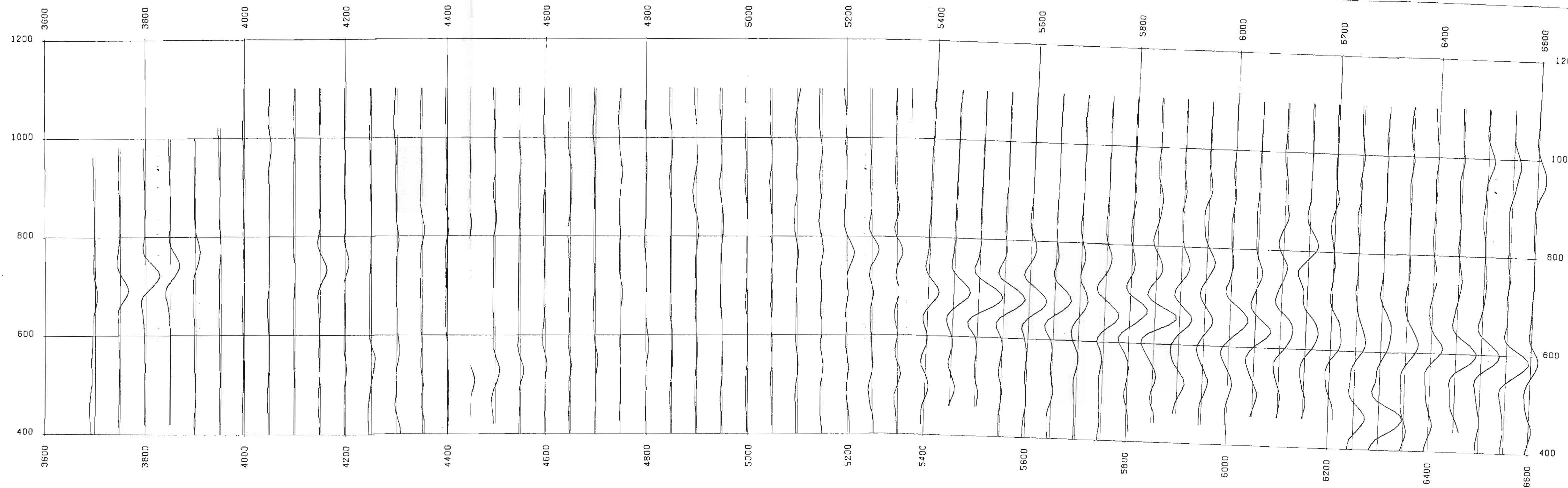


GRONG GODEJORD
Max-Min Slingram

$a = 60 \text{ m}$
 $1 \text{ cm} = 20 \%$
+ <<---->> --
 $f = 7040 \text{ Hz Re}$

1:5000

Suomen Malmi Oy



GRONG GODEJORD

Max-Min Slingram

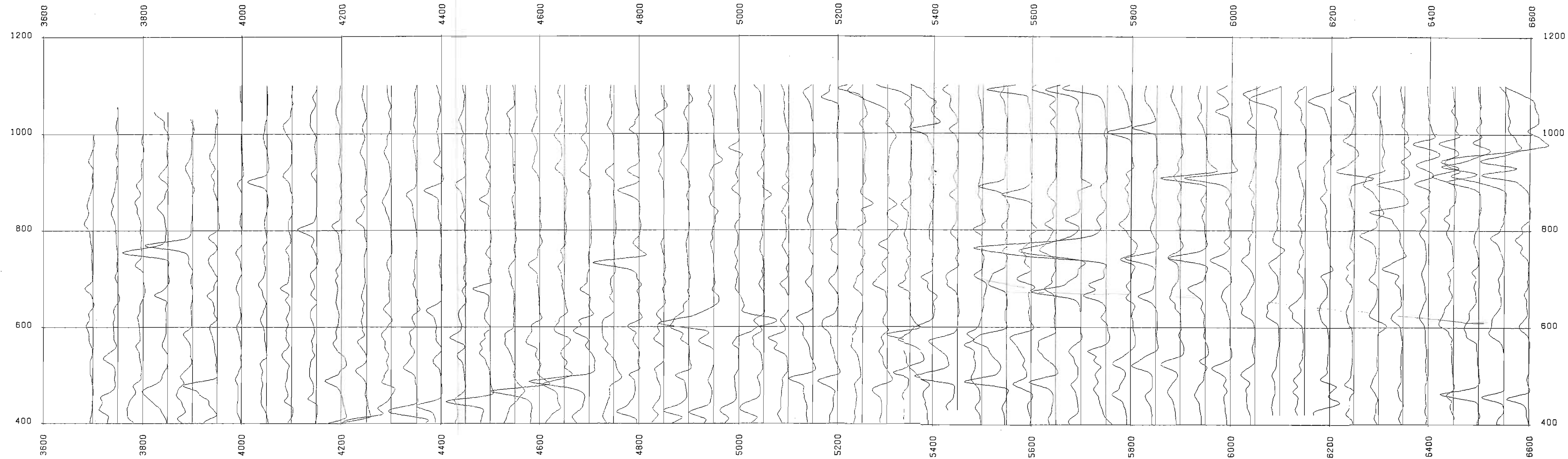
$a = 60 \text{ m}$

$1 \text{ cm} = 20 \%$

+ <<---->> -

$f = 7040 \text{ Hz Im}$

1:5000



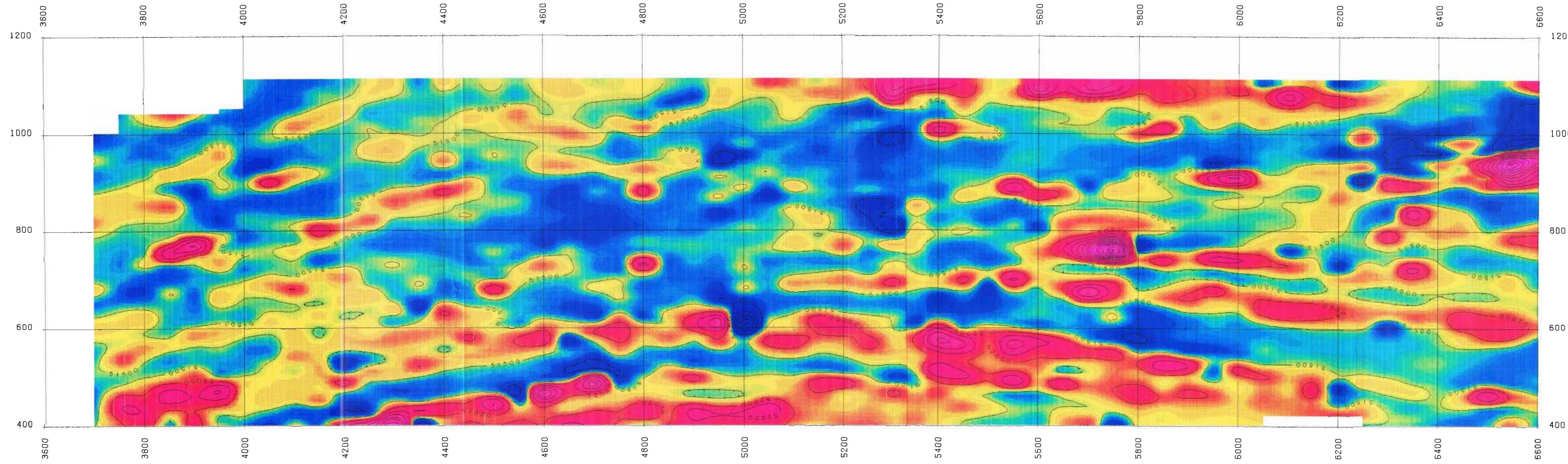
GRONG GODEJORD

Magnetic Map

Total Field

1 cm = 2000 nT

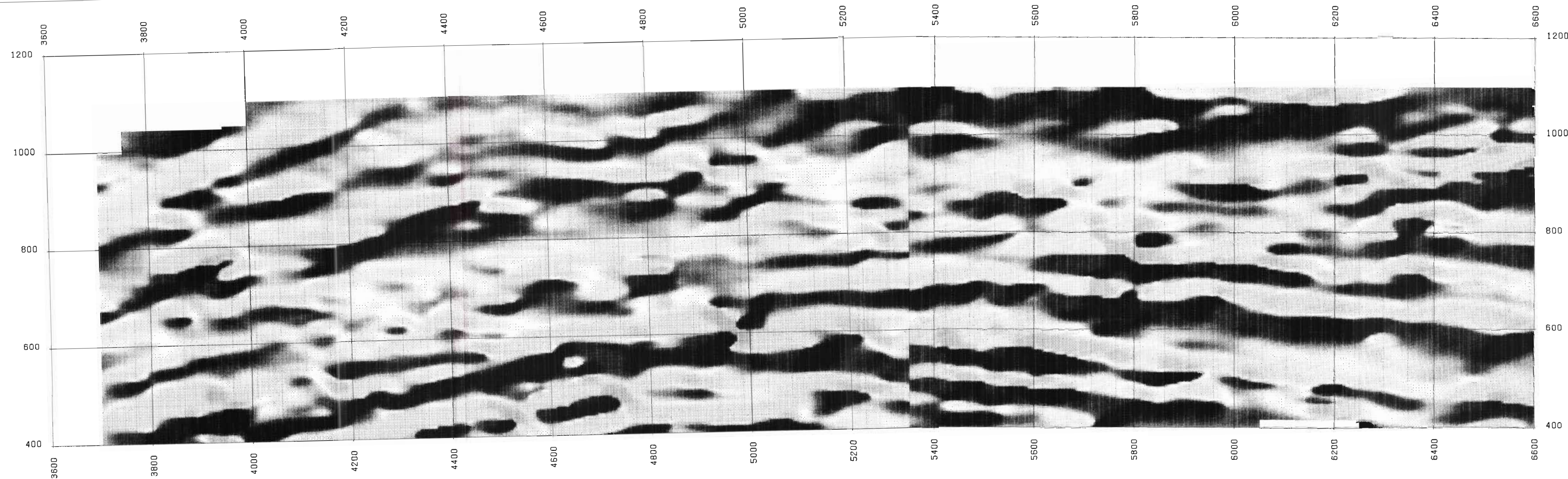
1:5000



Appendix 3/2

GROG GODEJORD
Magnetic Map
Total Field

1:5000



GRONG GODEJORD

Magnetic Map

Total Field

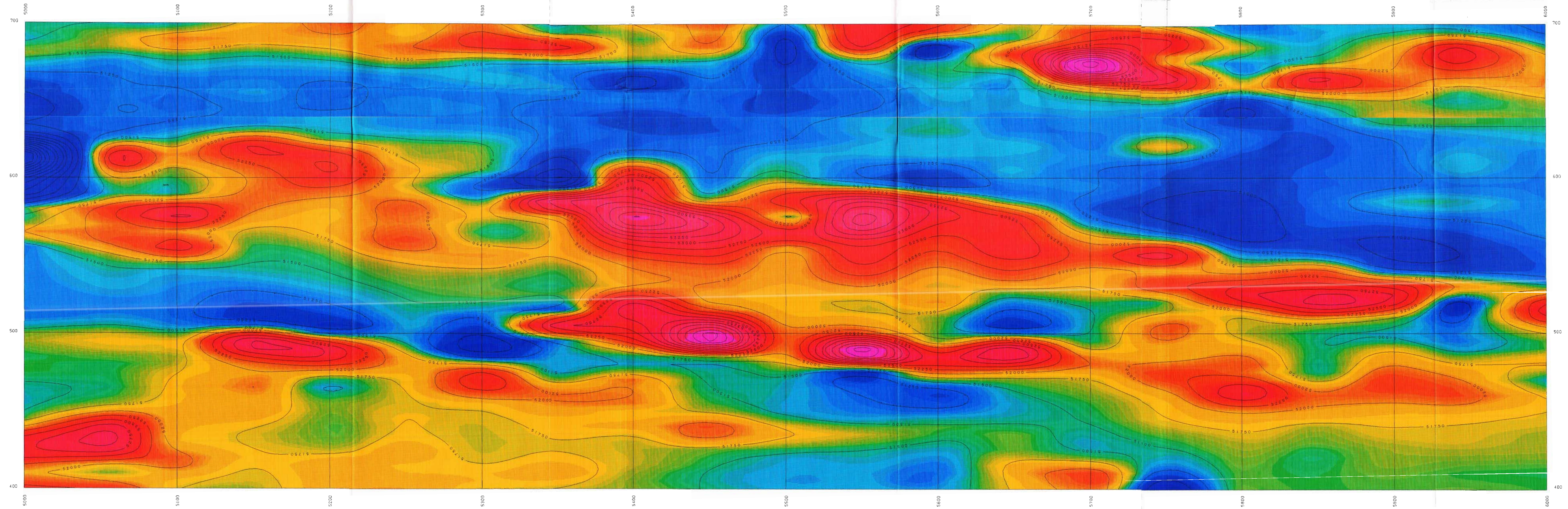
Shadow Map

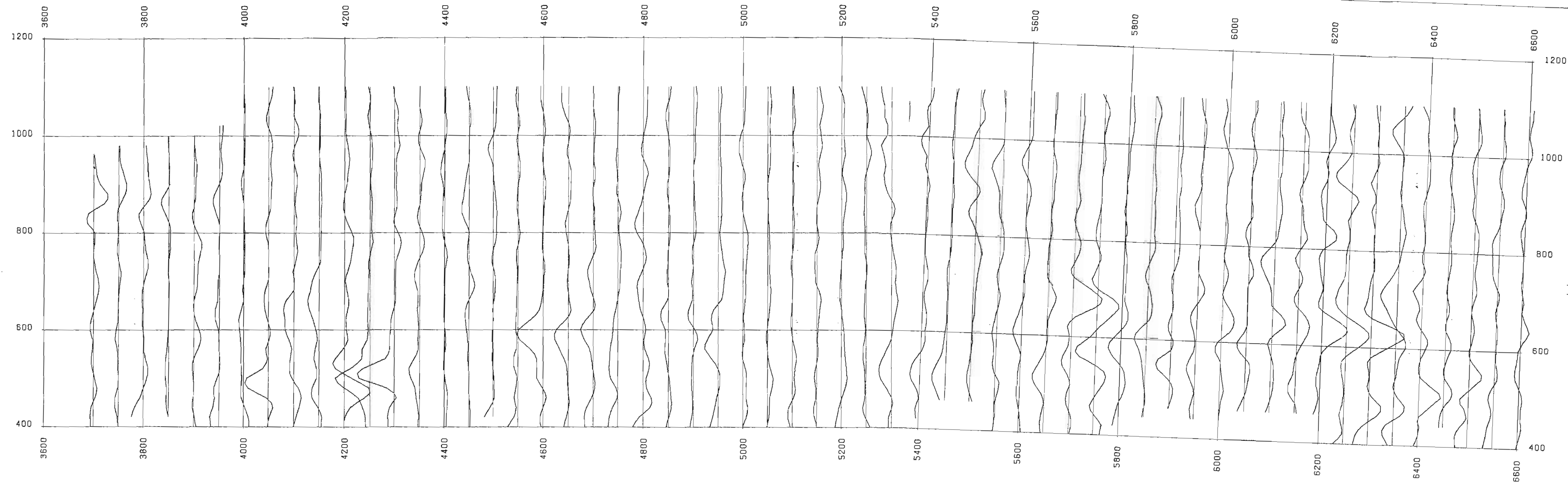
Sun direction:

Dec=-40, Inc=60

1:5000

Suomen Malmi Oy





Appendix 2/1

GRONG GODEJORD

Max-Min Slingram

$a=60\text{ m}$

$1\text{ cm} = 20\%$

+ <<---->> -

$f = 110\text{ Hz Re}$

1:5000

Suomen Malmi Oy