



Bergvesenet

Postboks 3021, 7002 Trondheim

Rapportarkivet

Bergvesenet rapport nr BV 1247	Intern Journal nr	Internt arkiv nr	Rapport lokalisering Trondheim	Gradering Åpen
Kommer fra ..arkiv	Ekstern rapport nr	Oversendt fra BP Minerals Norge	Fortrolig pga	Fortrolig fra dato:
Tittel Dighem airborne Geophysics, Meråker, Norway. Dighem ground geophysical follow up Meråker, Norway, March-May 1985 (phase A) Bilagsdel område 2				
Forfatter Paul Hayston		Dato May 1985	Bedrift BP Minerals Interanational LTD Norsk Hydro	
Kommune Meråker	Fylke Sør-Trøndelag	Bergdistrikt Trondheimske	1: 50 000 kartblad 17222 17223 17211 17214	1: 250 000 kartblad Trondheim
Fagområde Geofysikk Geologi	Dokument type Rapport	Forekomster Meråker: Kongens gruver, Mannfjell / Storbekk knollen, Furuhaugen, Flatrya.		
Råstofftype Malm/metall	Emneord Kis Cu Zn			
Sammendrag Se også tekstdel i geofysisk rapport BV 953, med henvisning til disse 5 ringpermene. INNHold: 1. Meråker -Tydalen, område 2, Kompilasjonskart, geologi og EM-anomalier, 1 : 10 000 2. Meråker -Tydalen, område 2, Resistivity uncoloured, 1 : 10 000 3. Meråker -Tydalen, område 2, Resistivity coloured, 1 : 10 000 4. Meråker -Tydalen, område2, Electromagnetic anomalies, 1 : 10 000, (MANGLER) 5. Meråker -Tydalen, område2, Total field magnetics, 1 : 10 000 6. Meråker -Tydalen, område2, Enhanced magnetics, 1 : 10 000 7. Mannfjell/ Storbekken-knollen, Summary Geophysics, Bilag 32, 1 : 10 000 8. Mannfjell/ Storbekken-knollen, VLF bakkemålinger, bilag 33, 1 :10 000 9. Mannfjell/ Storbekken-knollen, Total magnetisk, bilag 34, 1 :10 000 10. Mannfjell/ Storbekken-knollen, Geokjem., Anomaly plot Cu Pb Zn, 1 : 10 000 11. Mannfjell/ Storbekken-knollen, Geokjem., Anomaly plot Mn Co 1:10 000				

BP Minerals Norge A/S

Meråker - Tydal prosjektet 1985

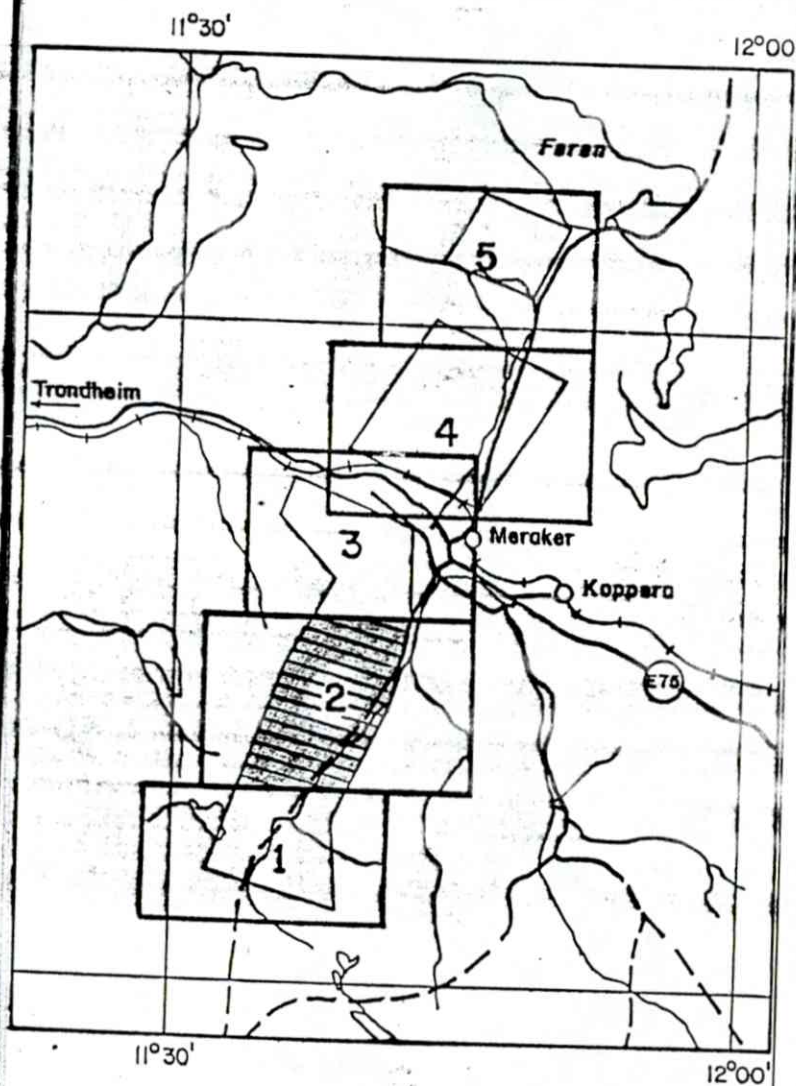
Innholdsfortegnelse

Område 2 Meråker

OMRÅDE	UNDERSØKELSE	SKALA	UTFØRT AV
Meråker -Tydalen Område 2	Kompilasjonsskart Geologi og EM- anomalier	1:10 000	Dighem/BP
Meråker -Tydalen Område 2	Resistivity uncoloured	1:10 000	Dighem
Meråker -Tydalen Område 2	Resistivity, coloured	1:10 000	Dighem
Meråker -Tydalen Område 2 MANGLER	Electromagnetic anomalies	1:10 000	Dighem
Meråker -Tydalen Område 2	Total field magnetics	1:10 000	Dighem
Meråker -Tydalen Område 2	Enhanced magnetics	1:10 000	Dighem
Mannfjell / Storbekk- knollen	Summary Geophysics Bilag 32	1:10 000	Dighem/BP Minerals Norge a.s
Mannfjell / Storbekk- knollen	VLF bakkemålinger bilag 33	1:10 000	Paulsen / BP Minerals Norge a.s
Mannfjell / Storbekk- knollen	Total magnetisk bilag 34	1:10 000	Paulsen / BP Minerals Norge a.s
Mannfjell / Storbekk- knollen	Geokjem.(?) Anomaly plot Cu Pb Zn	1:10 000	BP Minerals Norge a.s
Mannfjell / Storbekk- knollen	Geokjem.(?) Anomaly plot Mn Co	1:10 000	BP Minerals Norge a.s

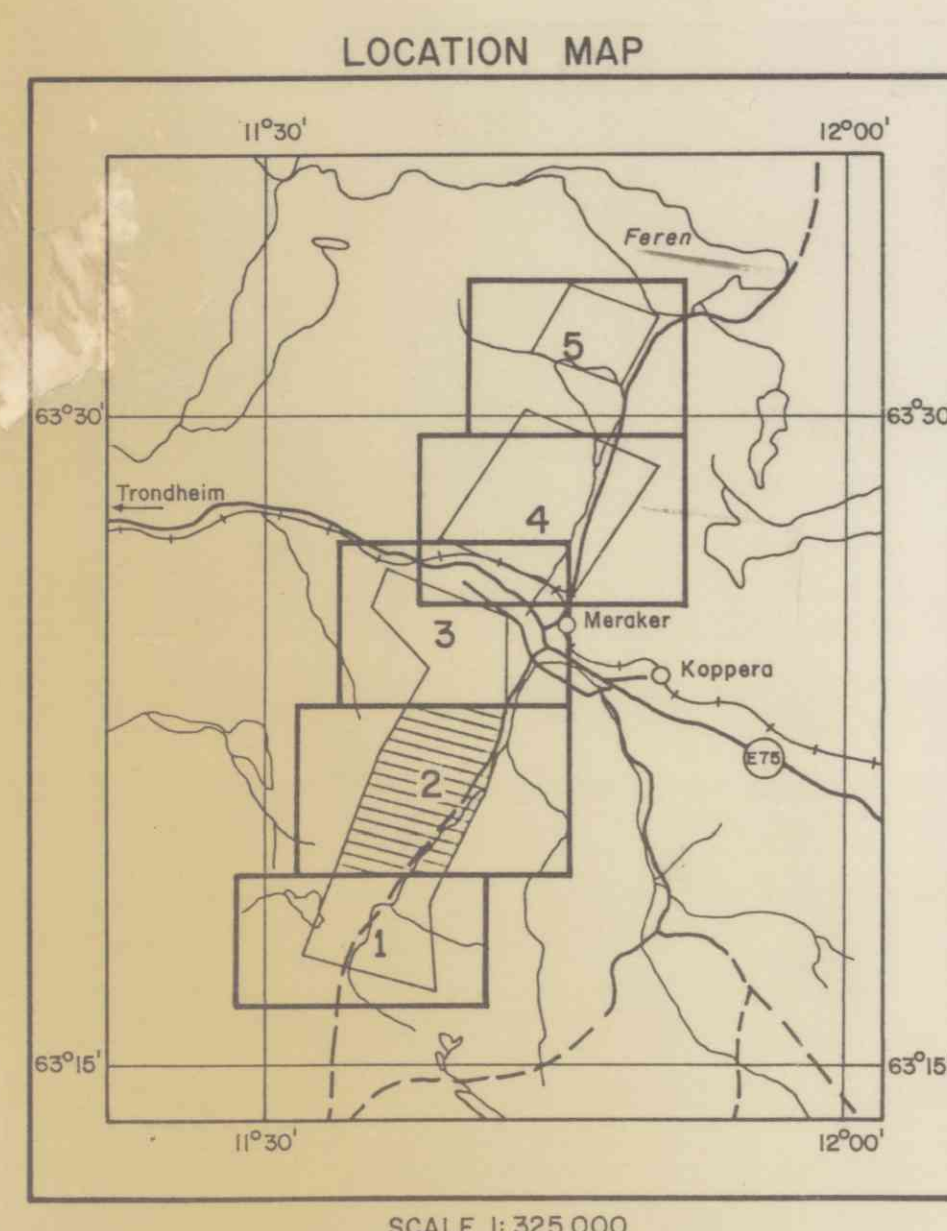
BP NORGE A.S. MINERALS MERÅKER TYDALEN PROSJEKT 1985

LOCATION MAP



1985

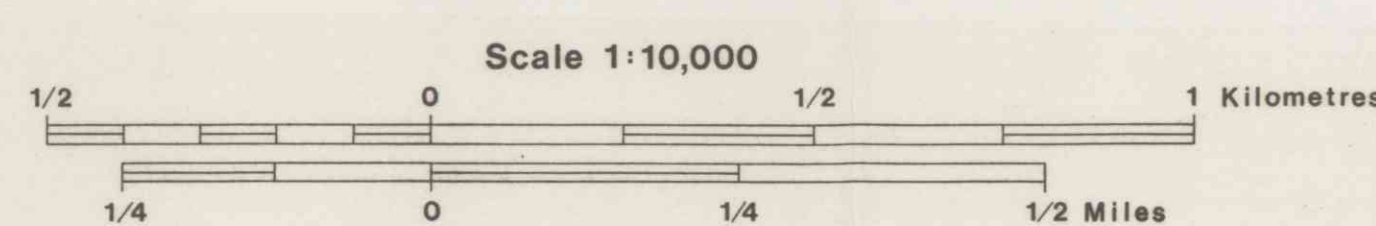
SCALE 1:325 000



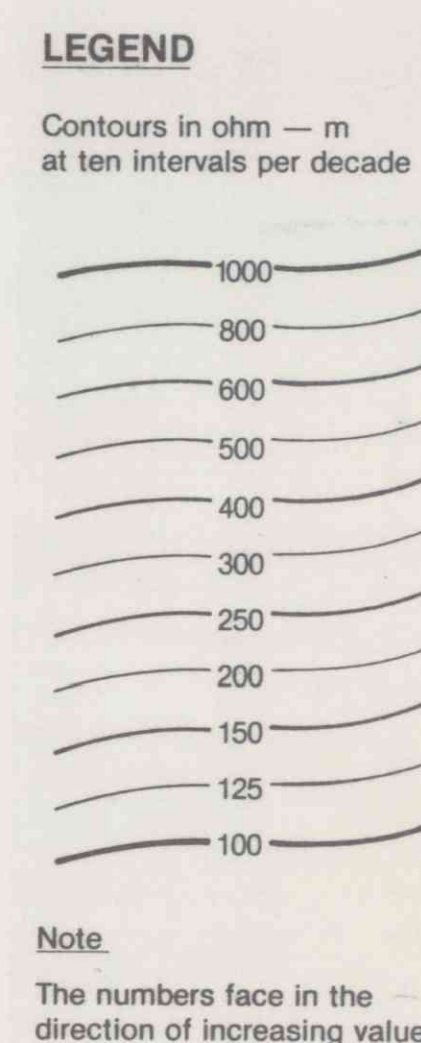
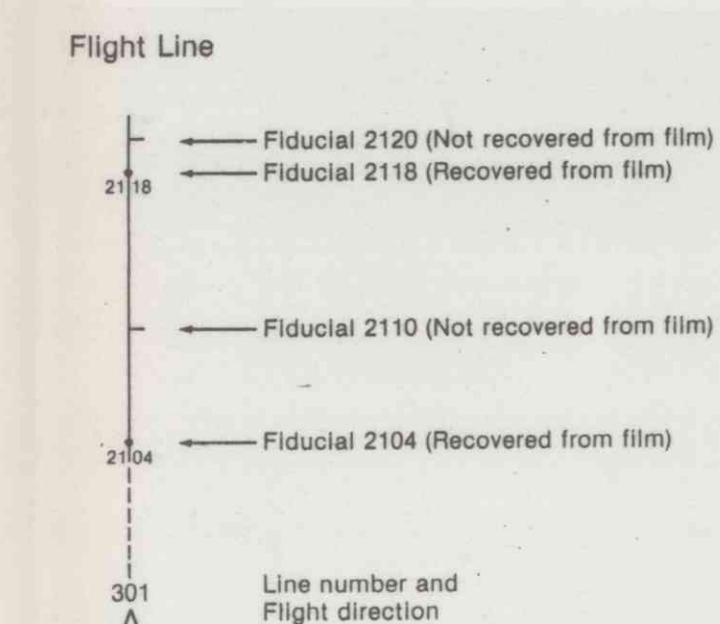
Resistivity uncoloured



B.P. NORGE A/S MINERALS
MERAKER AREA
RESISTIVITY

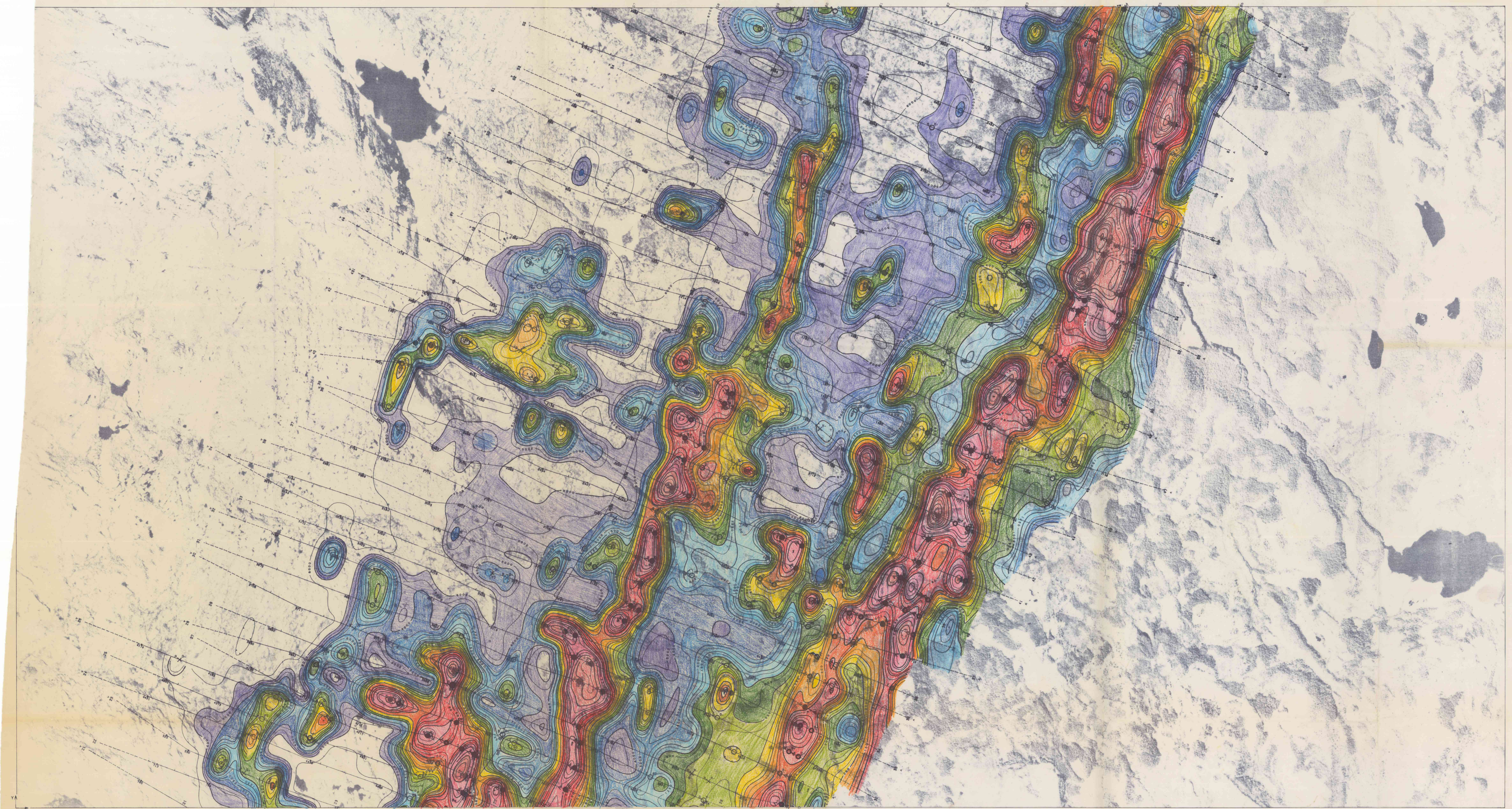


SHEET 2



DIGHEMTM survey by:
DigheM Surveys & Processing Inc.

JOB	DATE	DRAWN BY	CHECKED BY
117	JANUARY / 85	SM	2.2.



B.P. NORGE A/S MINERALS
MERAKER AREA
RESISTIVITY

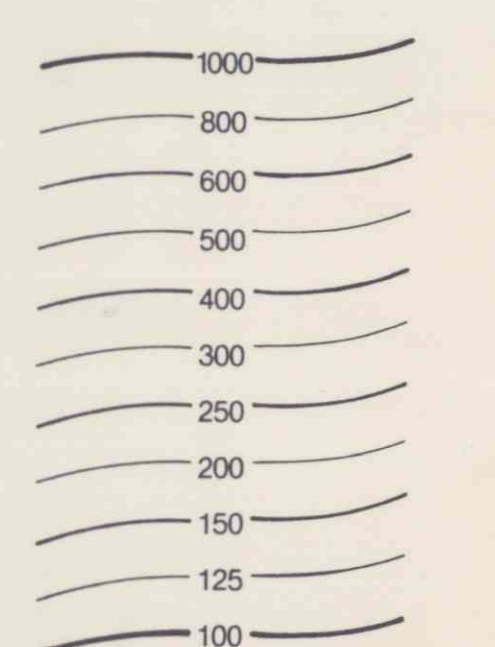
Scale 1:10,000
1/2 0 1/2 1 Kilometres
1/4 0 1/4 1/2 Miles

SHEET 2

Flight Line
— Fiducial 2120 (Not recovered from film)
— Fiducial 2118 (Recovered from film)
— Fiducial 2110 (Not recovered from film)
— Fiducial 2104 (Recovered from film)
Line number and
Flight direction

LEGEND

Contours in ohm — m
at ten intervals per decade

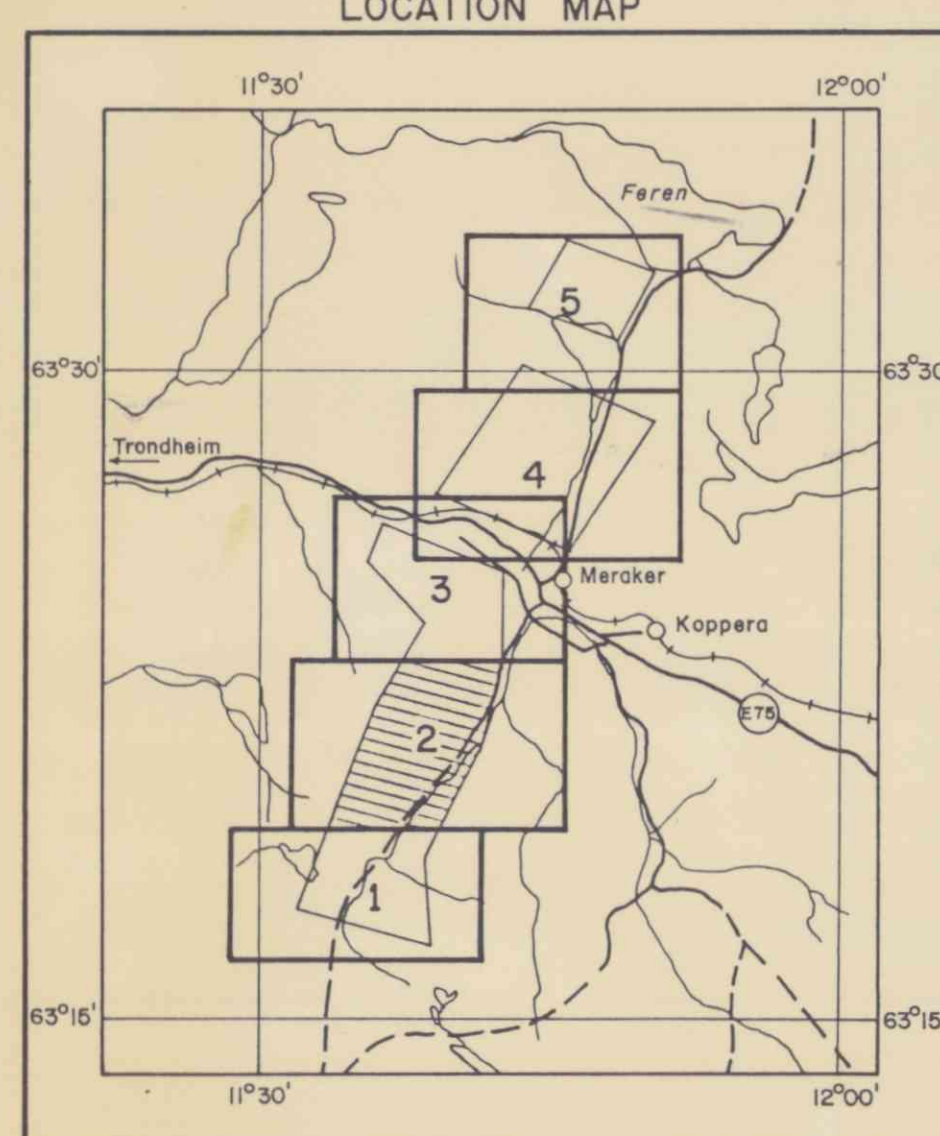


Note
The numbers face in the
direction of increasing value.

DIGHEMTM survey by:
Dighem Surveys & Processing Inc.

JOB	DATE	DRAWN BY	CHECKED BY
117	JANUARY / 85	SM	22

LOCATION MAP



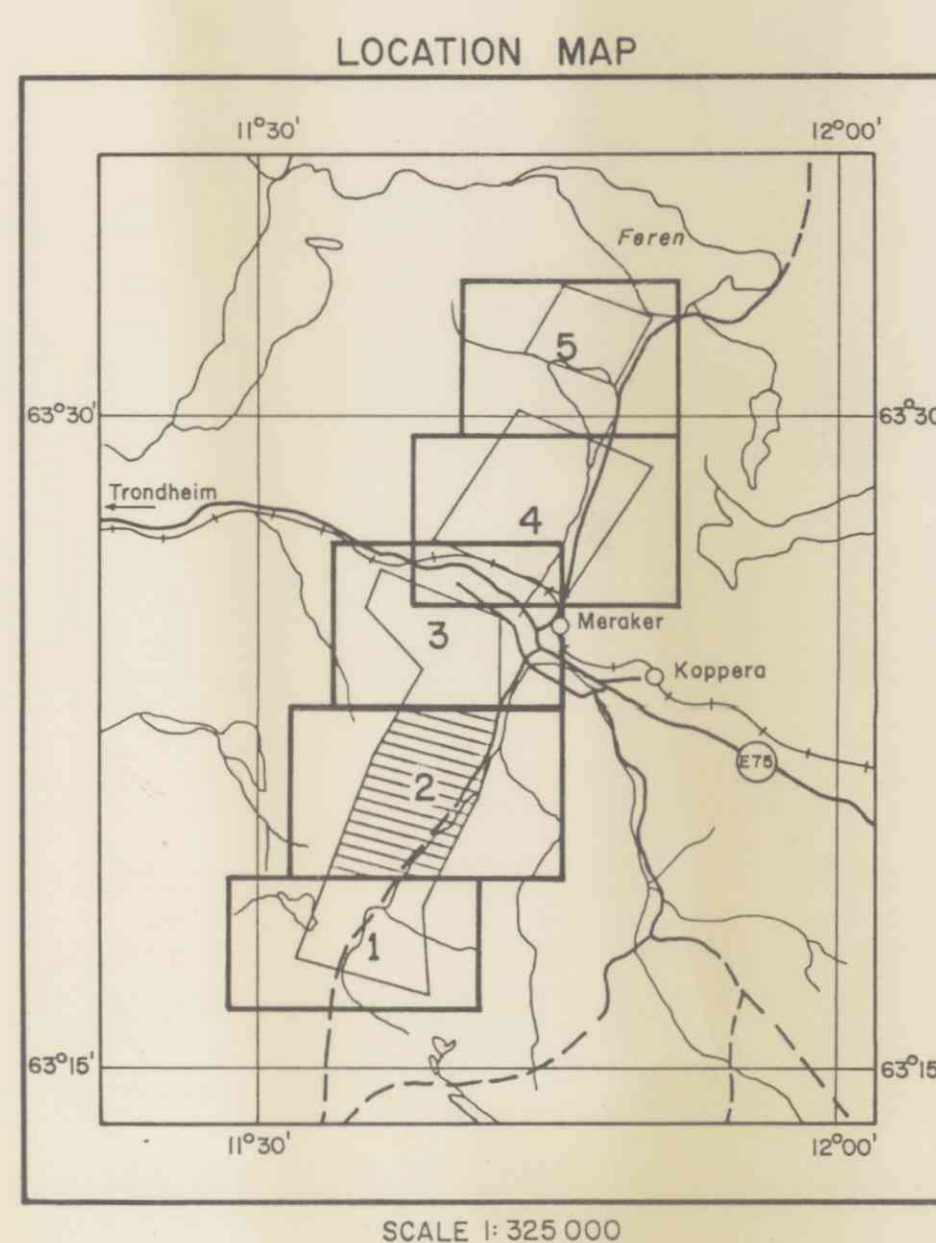
SCALE 1:325,000

Resistivity coloured



EM anomalies

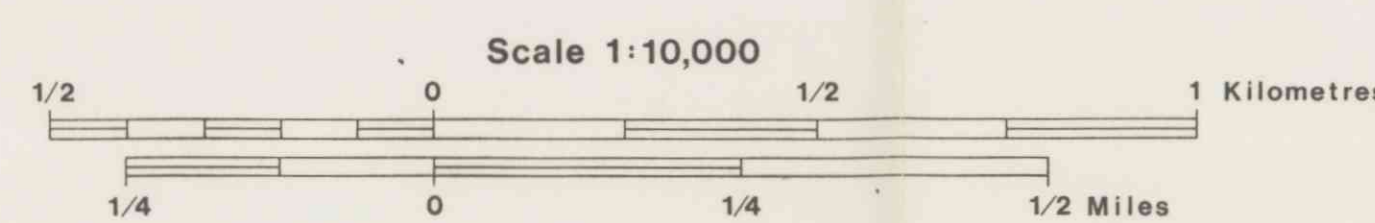
mangler



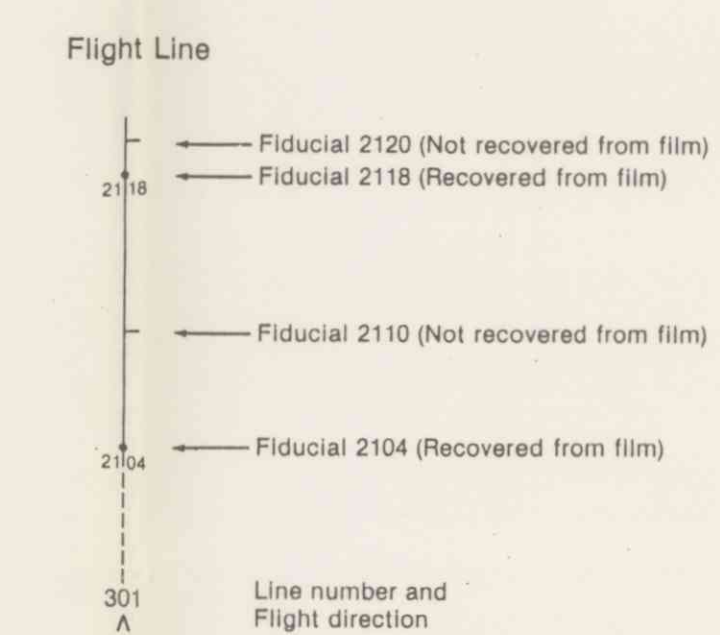
B.P. NORGE A/S MINERALS

MERAKER AREA

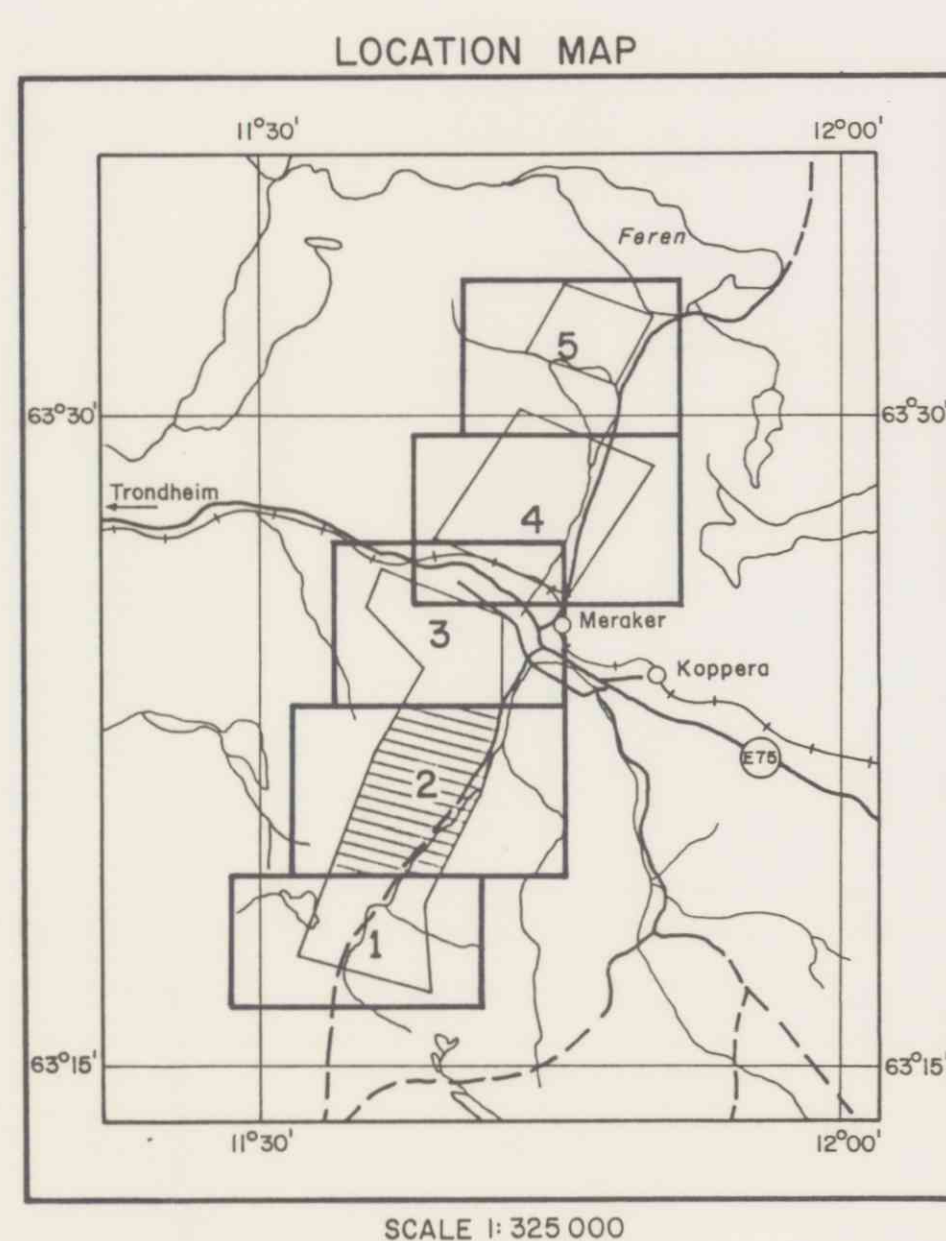
TOTAL FIELD MAGNETICS



SHEET 2



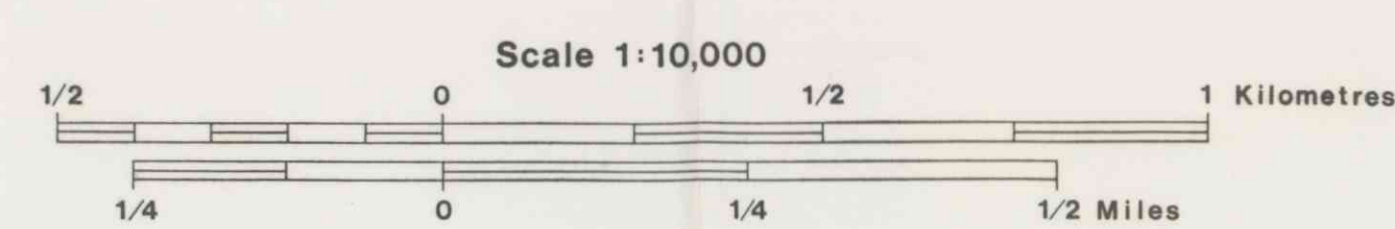
Total field magnetics



B.P. NORGE A/S MINERALS

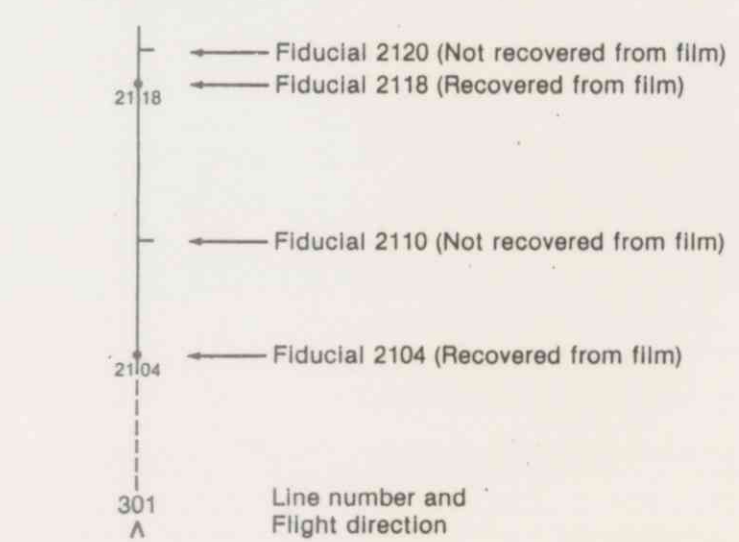
MERAKER AREA

ENHANCED MAGNETICS

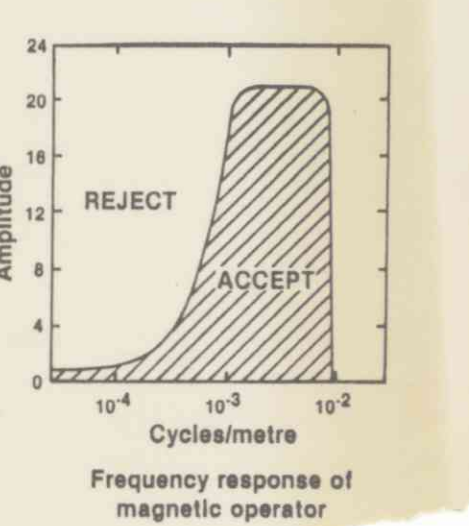
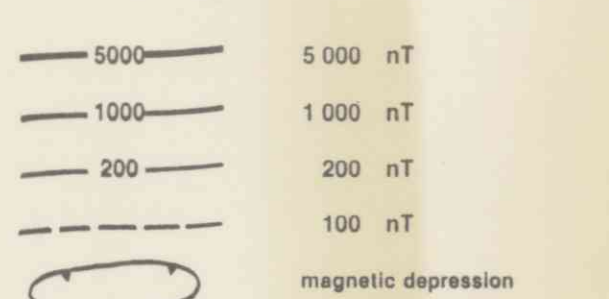


SHEET 2

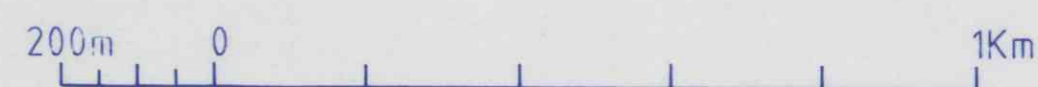
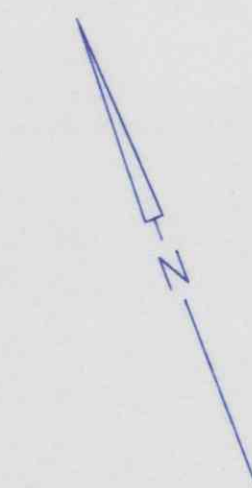
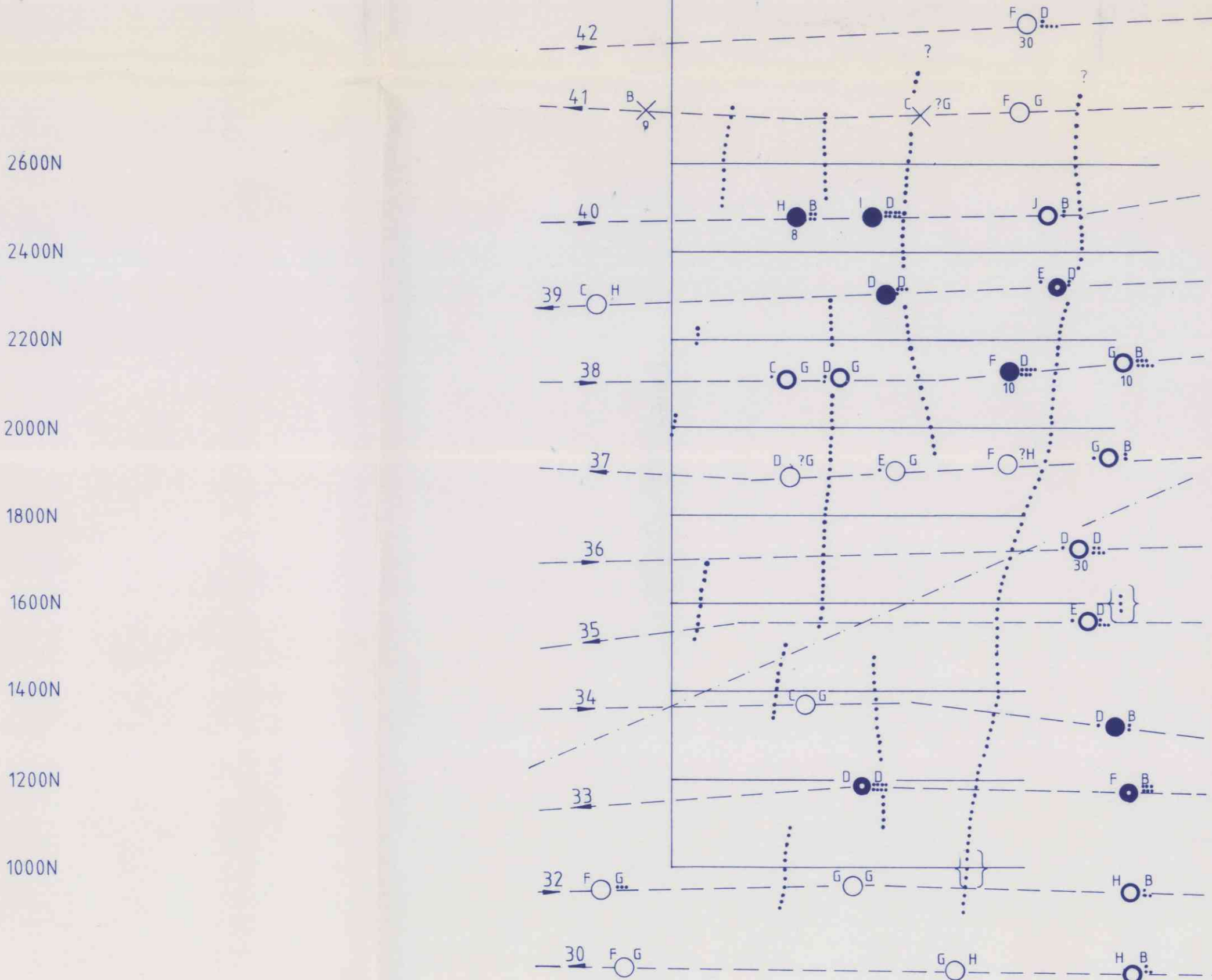
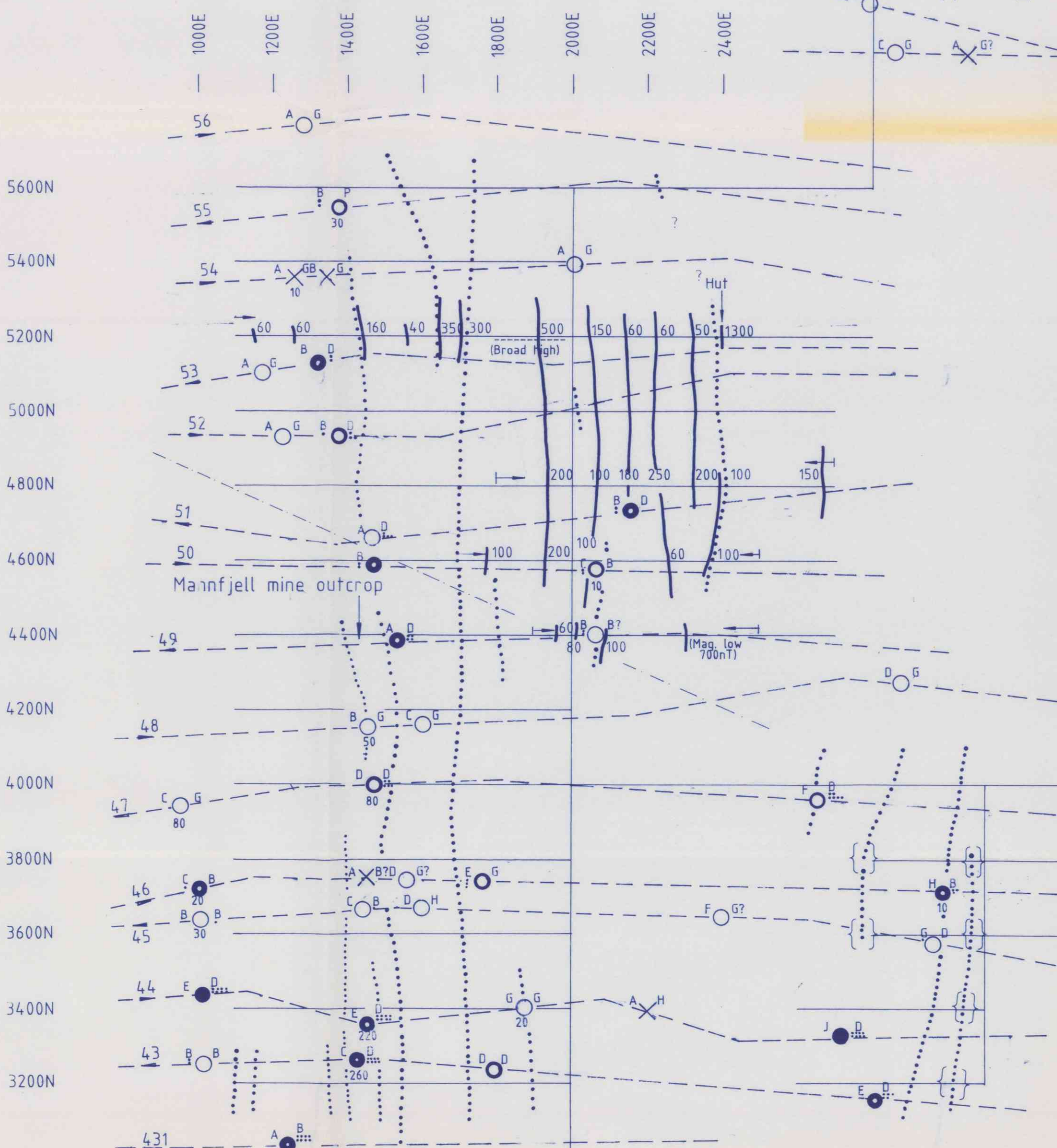
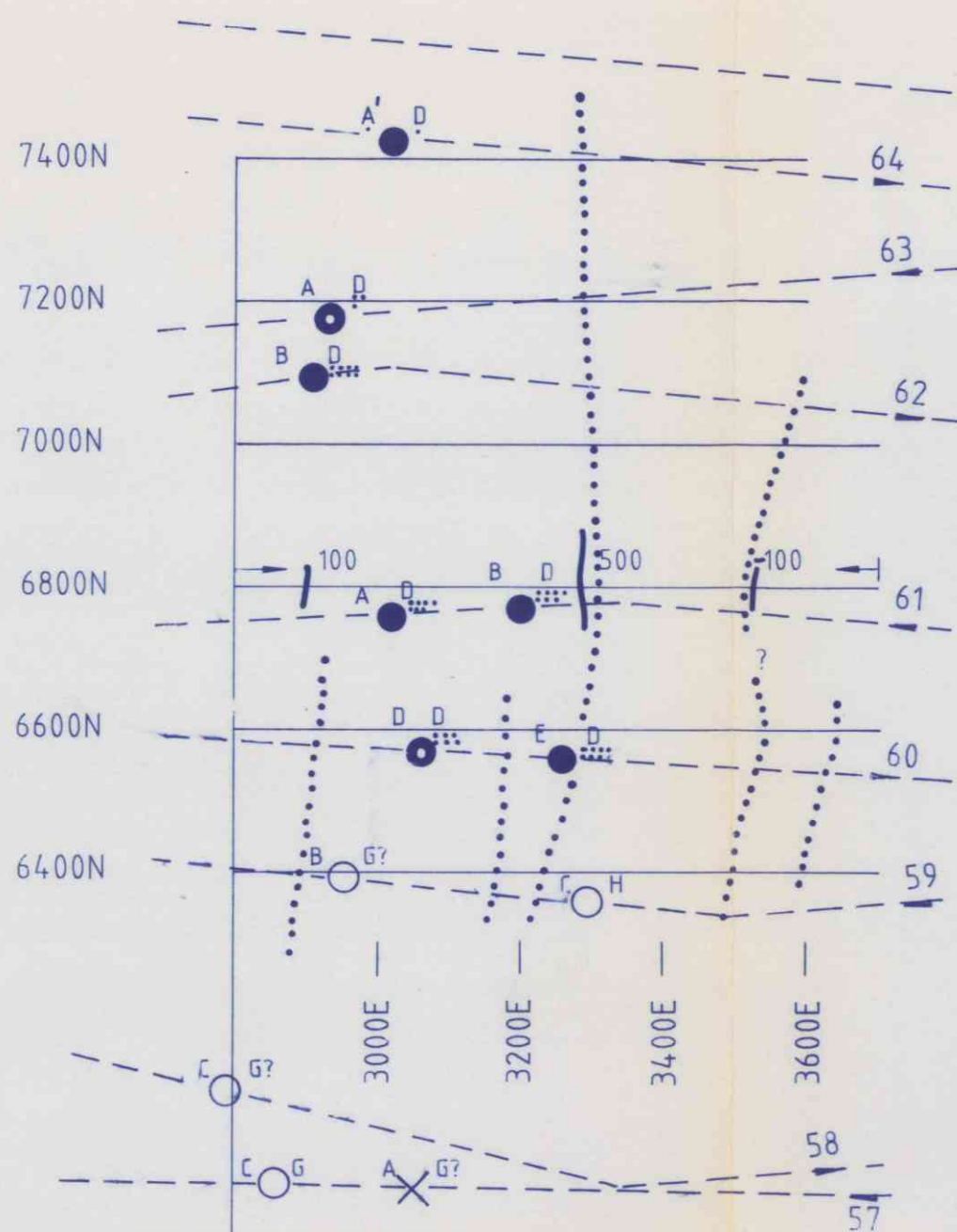
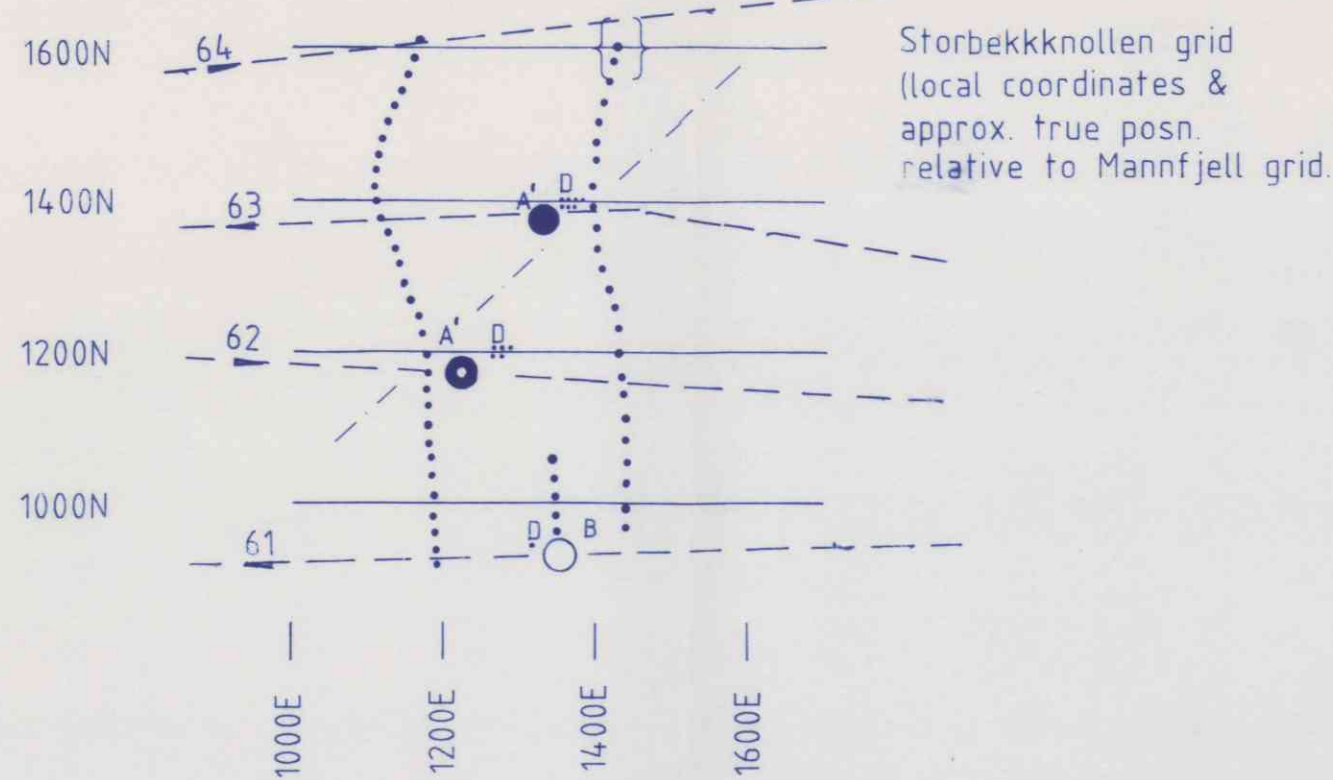
Flight Line



ISOMAGNETIC LINES
(enhanced field)



DIGHEM^{III}
Dighem



FOLLOW-UP KEY

- Principal magnetic anomalies, amplitudes(nT) & line to line correlation.
- Extent of magnetics coverage.
- VLF conductor trends (weak where bracketed)
- Inferred fault

DIGHEM ANOMALY KEY

ANOMALY GRADE	EM GRADE SYMBOL	CONDUCTANCE RANGE (MHOS)
6	●	> 99
5	●	50-99
4	●	20-49
3	●	10-19
2	●	5-9
1	○	< 5
-	×	Indeterminate

Identifier:
 Depth is greater than:
 15 m
 30 m
 45 m
 60 m

Interpretive symbol:
 Increase and decrease of
 Conductive
 is greater than:
 5 ppm
 10 ppm
 15 ppm
 20 ppm

Refer to list of anomalies in survey report for the actual ppm values for all coils and for the conductance and depth of conductors.

The interpretation is shown by the interpretive symbol (see legend below). The left letter is the anomaly identifier. The horizontal rows of dots indicate anomaly amplitude on the right record, and the vertical column gives the estimated depth. This depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or conductive overburden effects.

SYMBOL	GEOPHYSICAL MODEL	BEDROCK CONDUCTOR	or	NON-BEDROCK CONDUCTOR	MOIST LAYER
D.	steeply dipping thin disk	steeply dipping planar conductor	or	metal culture which contacts conductive ground	diatreme bedrock conductor
T.	thick disk	thick conductor, with thickness greater than 10 m.	or		
B.	indeterminate	bedrock conductor	or		
P.	conductor to one side of flight line	flight line passed off the end or side of conductor	or	flight line passed off the end or side of culture.	
E.	indeterminate	discrete conductor close to a much stronger conductor	or	edge of large conductive zone	
H.	half space (close to surface)	conductive rock unit	or	deep conductive weathering or thick conductive cover	conductive rock
G.	buried half space	conductive rock unit, "buried" under non-conductive cover or under a dense forest canopy	or	deep conductive weathering or thick conductive cover, "buried" under a dense forest canopy	conductive rock
S.	horizontal sheet	horizontal conductor	or	thin conductive cover (e.g. occasionally, culture which contacts conductive cover)	conductive cover
R.	horizontal ribbon	thin dipping narrow conductor (e.g. copper jackhead)	or	narrow surface conductor, e.g. stream bediments, or large fenced area	conductive cover
C.	sphere, horizontal disk	sphere plunging compact conductor	or	metal roof or fenced yard	culture
L.	line	bedrock conductor masked by culture	or	fence, pipeline, power line	
ca.	is one of the above symbols, "ca." means that the correct identification of the geophysical model is only a reasonable possibility, rather than being a reasonable probability				
af?	probable aerodynamic noise, meaning that conductive material may, in fact, not exist				

arcs indicate the conductor has a thickness > 10 m

dip direction
 magnetic correlation in nT (gammas)
 conductor axis
 flight line

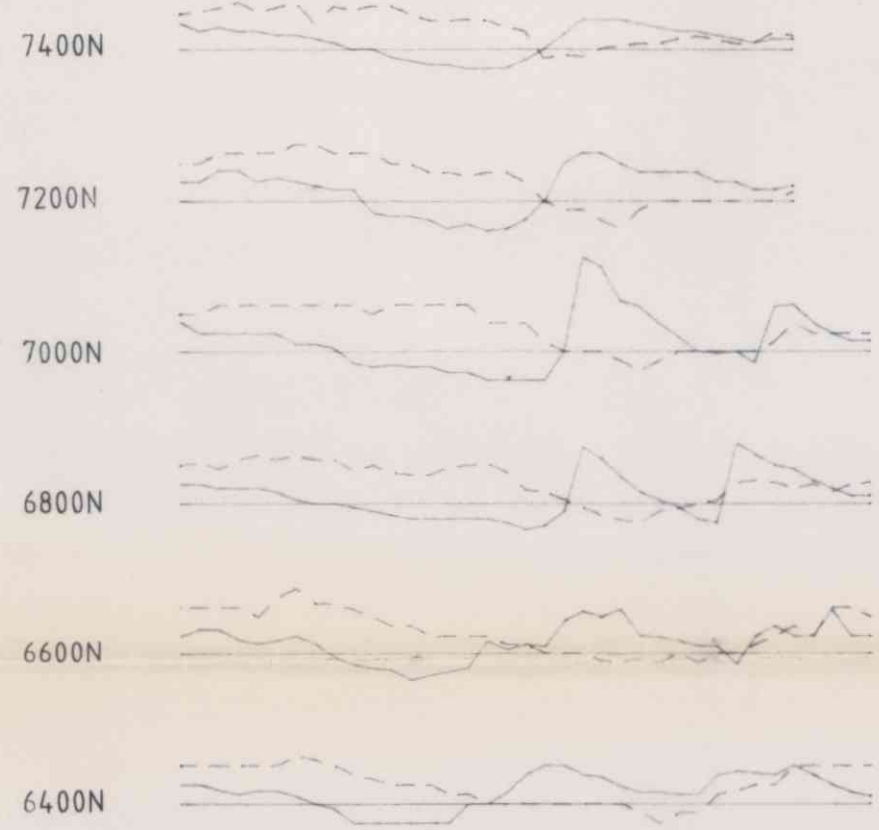
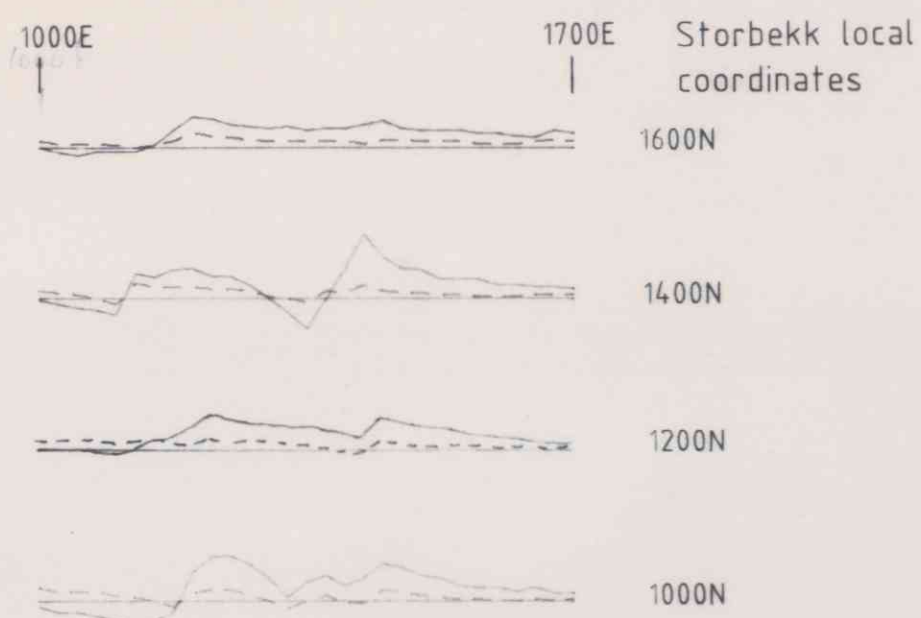
MANNFJELL/STORBEKKKNOLLEN GEOPHYSICS SUMMARY

Enclosure 32

BPH
1:10000

ILF

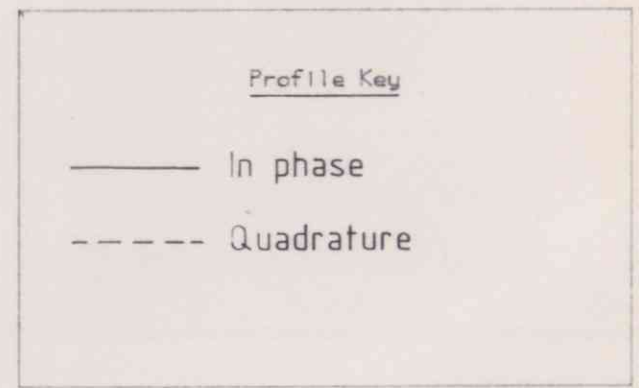
10/06/85



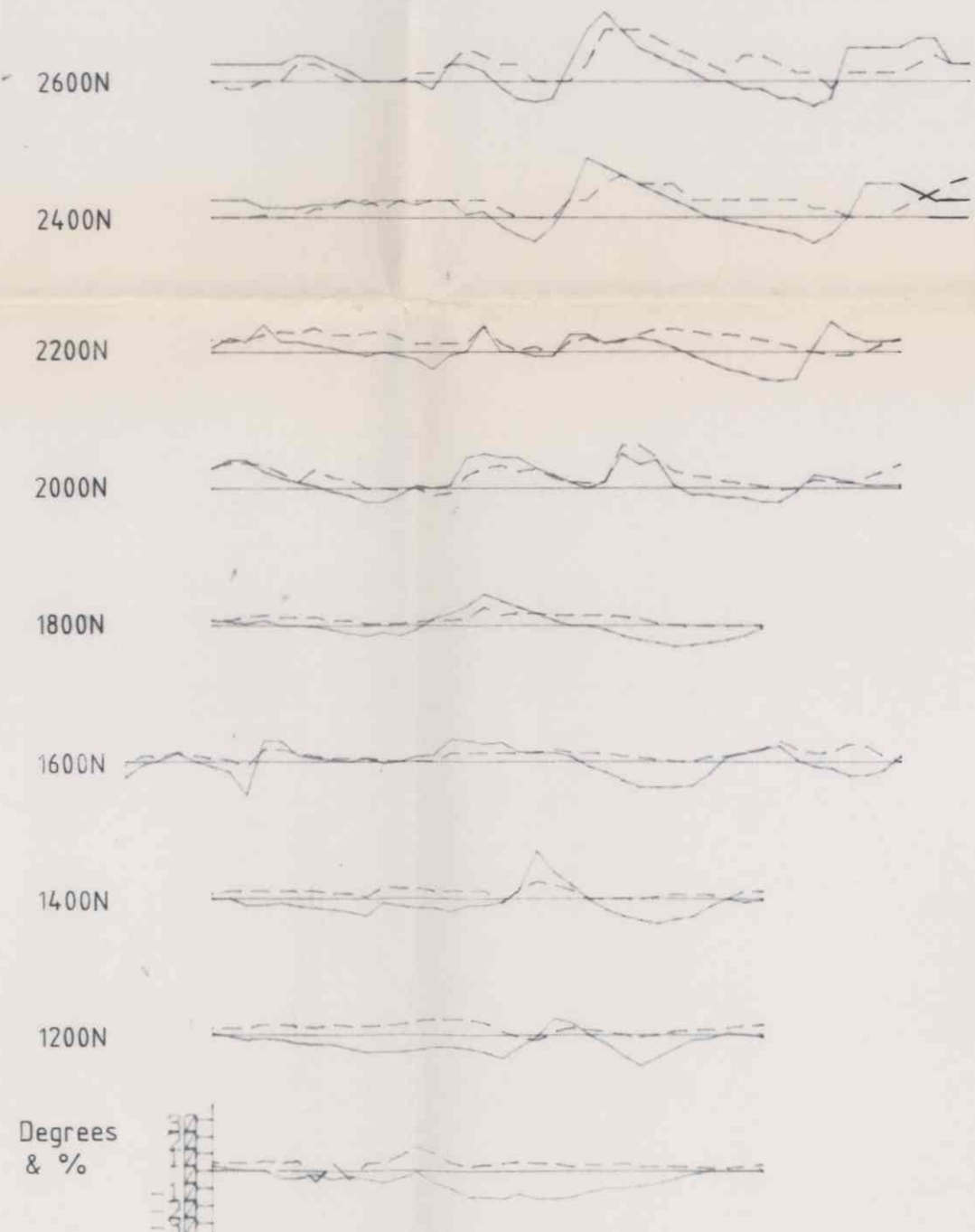
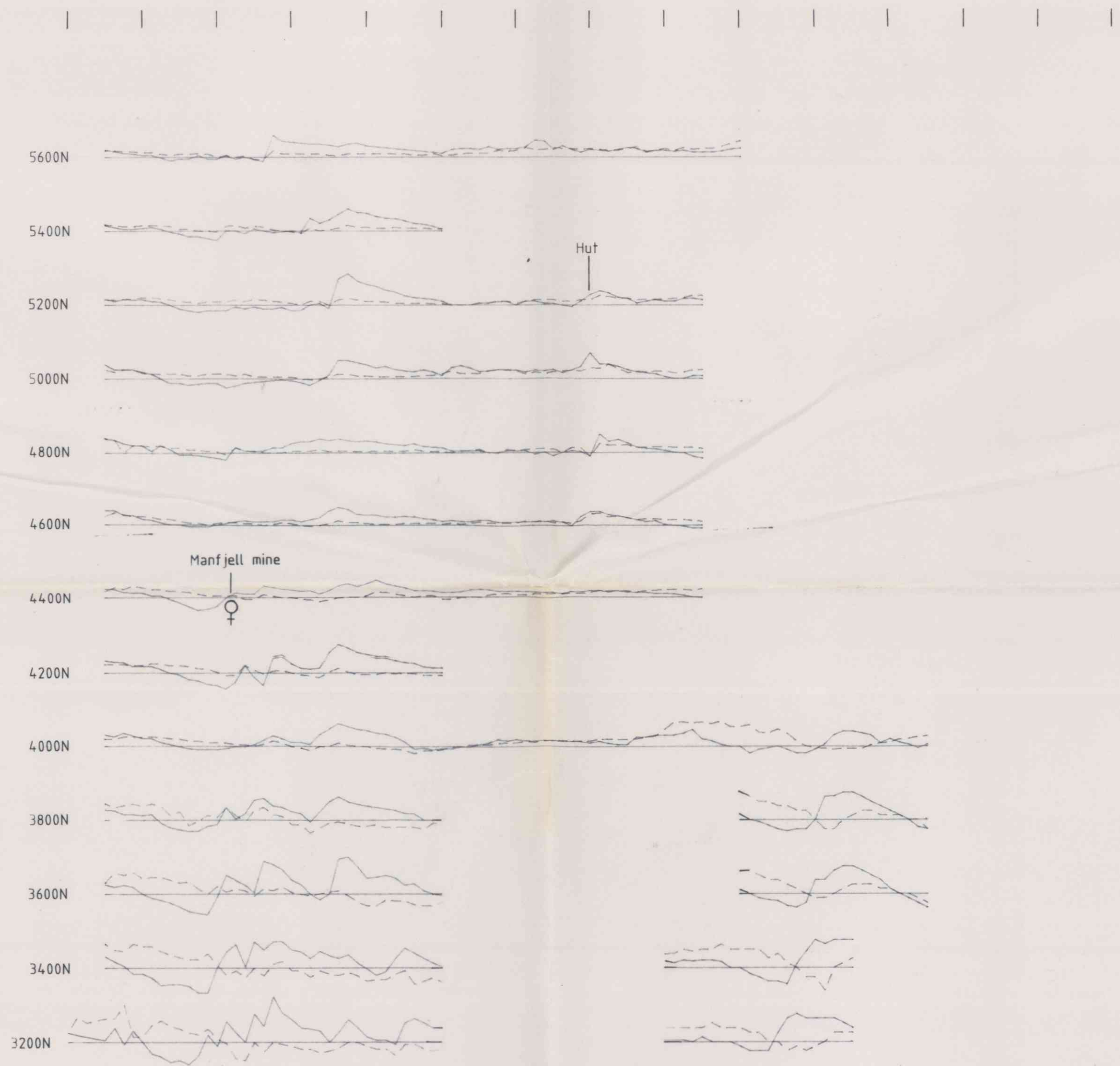
Enclosure 33

BP MINERALS INTERNATIONAL
 PROSPECT : mersker
 GRID : MANNFJELL/STORBEEK
 VLF, FUD Transmitter.
 Facing north, Scale 1:10000
 DATE : SPRING 1985

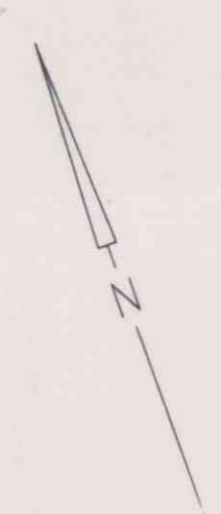
All lines P1 inst. except:
 2200N/2325-2400E; 4000N/1100-
 2500E; 4200-4800N inclusive;
 5000N/1100-1975E; 5200N; 5400N;
 5600N/1100-2000E.
 (read using inst. P2)



NORTHING



Degrees & %



EASTING

Enclosure 34

BP MINERALS INTERNATIONAL

PROSPECT : MERAKER

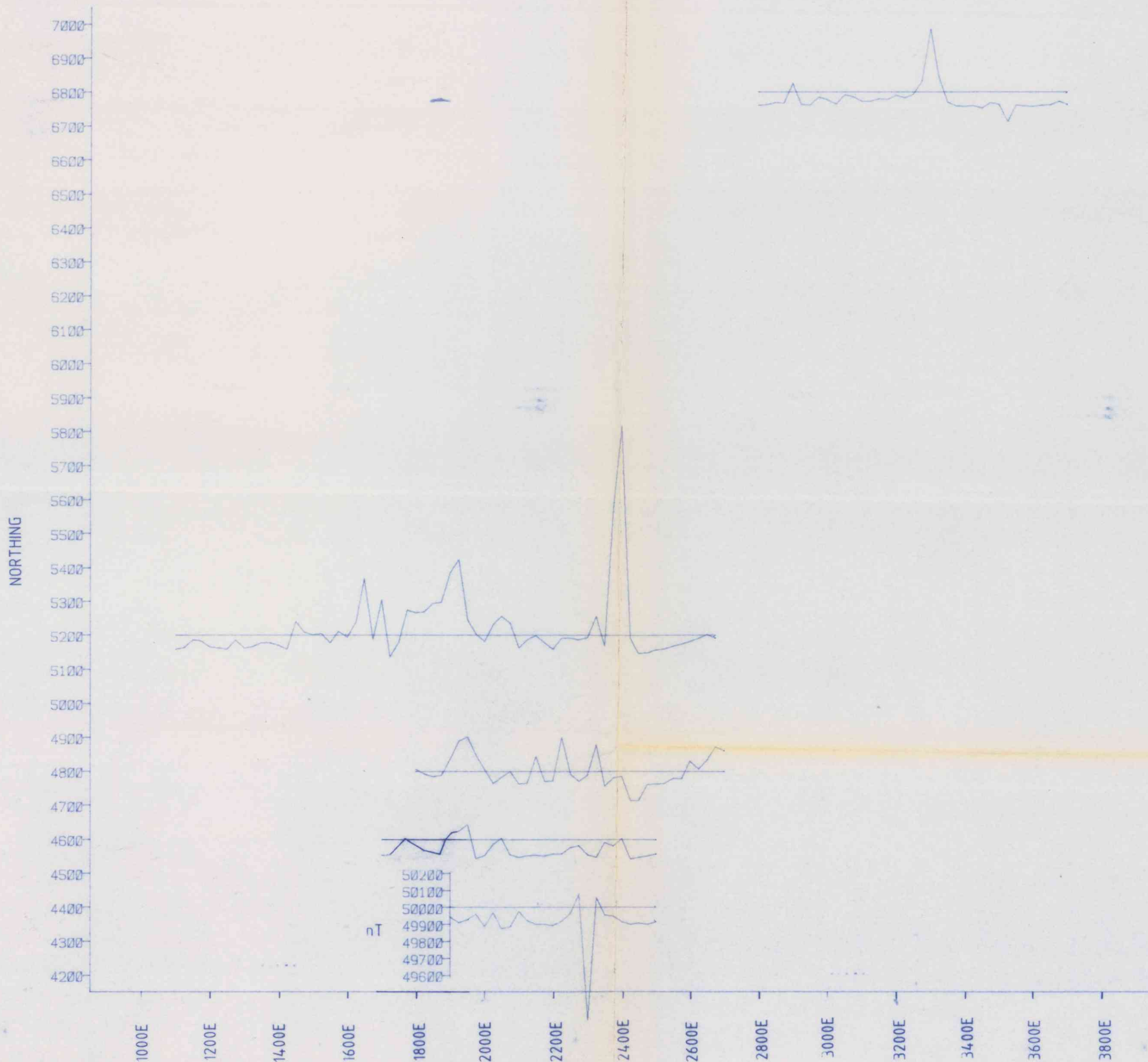
GRID : MANNFJELL

TOTAL MAGNETIC INTENSITY

EDA 375 units, Scale 1:10000

DATE : APRIL 1985

Base: 5200N/2700E = 50000nT



1600N
1400N
1200N
1000N

5600N
5400N
5200N
5000N
4800N
4600N
4400N
4200N
4000N
3800N
3600N
3400N
3200N

2600N
2400N
2200N
2000N
1800N
1600N
1400N
1200N
1000N

1000E
1200E
1400E
1600E

1000E
1200E
1400E
1600E
1800E
2000E
2200E
2400E

7400N
7200N
7000N
6800N
6600N
6400N

3000E
3200E
3400E
3600E

200M 0 1Km



1000E
1200E
1400E
1600E
1800E
2000E
2200E
2400E
2600E
2800E
3000E
3200E
3400E
3600E

BP

BP NORGE a.s Minerals

MANNFJELL / STORBEKKNOLLEN

ANOMALY PLOT, Mn, Co

Author

Scale

Drawn by

Report No

Date

Drawing No

Mn Co