



Bergvesenet

Postboks 3021, 7002 Trondheim

Rapportarkivet

Bergvesenet rapport nr BV 763	Intern Journal nr 449/84 FB	Internt arkiv nr T & F 622	Rapport lokalisering Trondheim	Gradering
Kommer fra ..arkiv Troms & Finnmark	Ekstern rapport nr Aspro 1520	Oversendt fra	Fortrolig pga	Fortrolig fra dato:
Tittel Low frequency electromagnetic and.... (2 stknr 1520 BV 763) og 1519 (BV 616))				
Forfatter Hansen, Finn		Dato 18.06 1984	Bedrift Prospektering A/S	
Kommune Kautokeino	Fylke Finnmark	Bergdistrikt Troms og Finnmark	1: 50 000 kartblad 18321 18332	1: 250 000 kartblad
Fagområde Geofysikk	Dokument type		Forekomster	
Råstofftype Malm/metall	Emneord			
Sammendrag				

Nv. 822.



PROSPEKTERING!

GAMLE RINGERIES Vei 14 POSTB. 83 - 1321 STABEKK

HELEID AV AKTIESELSKABET SYDVARANGER

Jm. 449/84 FB
9/8-84111. (02) 12 03 10
(02) 53 08 34

INTERN RAPPORT.

Telex 72987 aspro r

DATO: 18.06.84

RAPPORT NR: 1520

KARTBLAD

1832 I
1833 IIAntall sider
— " — bilag

SAKSBEARBEIDER FINN HANSEN

RAPPORT VEDRØRENDE:

LOW FREQUENCY ELECTROMAGNETIC AND MAGNETIC VERTICAL
FIELD MEASUREMENTS IN THE SUPERIOR OIL JOINT VENTURE
AREA WINTER 1984.

RESYMÉ:

The survey was conducted in order to locate and detail
a selection of HEM anomalies outlined by NGU surveyed
summer 1979 (Sander system, Report no. NGU 1782).
Data reprocessed by Dighem Ltd., Report no. 1381 and
HEM anomalies outlined by Dighem summer 1982, Report
no. 1413.

Eighteen localities were considered priority target
areas for follow up work, of which six are inside The
Superior Oil Joint Venture Area.

This is area 66, 68, 69 and 37^x) and are enclosed in
this report. Area 67 proved negative and has not been
paid further attention. Area 29 is expectant further
geophysical testing and will be reported on later.

The areas are presented in such a way that the reader
is able to do his/hers own interpretation without
having to work with raw data. A listing of data are
available on request.

Areas 54, 55, 56, 57, 58, 59, 61, 62, 63, 64, 65 and
14 are inside The Bidjovagge Consession/Gulf Joint
Venture Area and reported on in a simular way in
Report no. 1519.

x) Resurveyed with different profile direction (re-
ported on earlier in Report no. 1469).

LFEM, Apex MaxMin II 1777/222 Hz
MAGN., McPhar M 700 Vert. field comp.
MAGN.base, McPhar M 700/Rustrak chartrecorder
DATA REC./PLOT, APPLE II

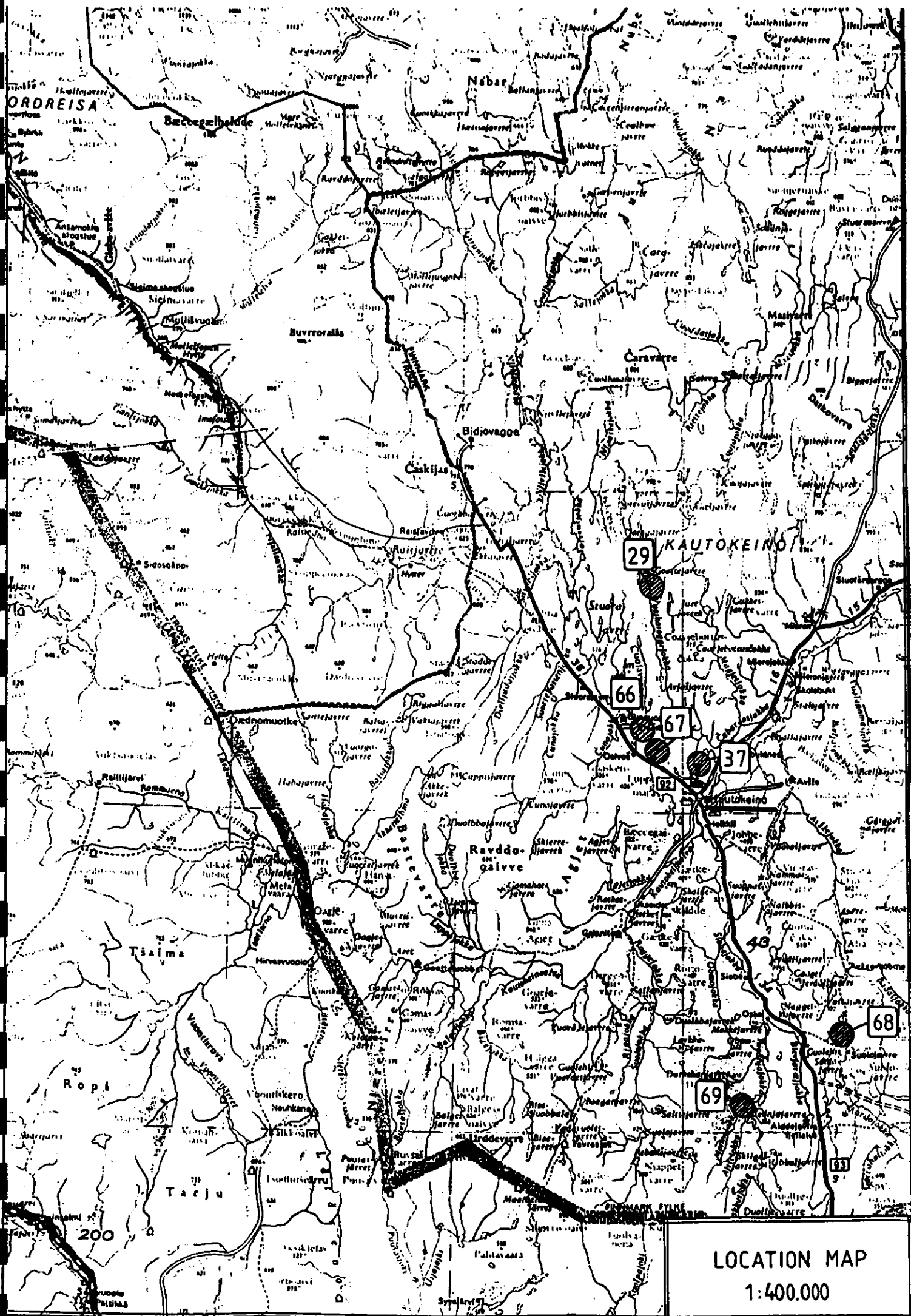
FORDELING
OSLO:

KIRKENES:

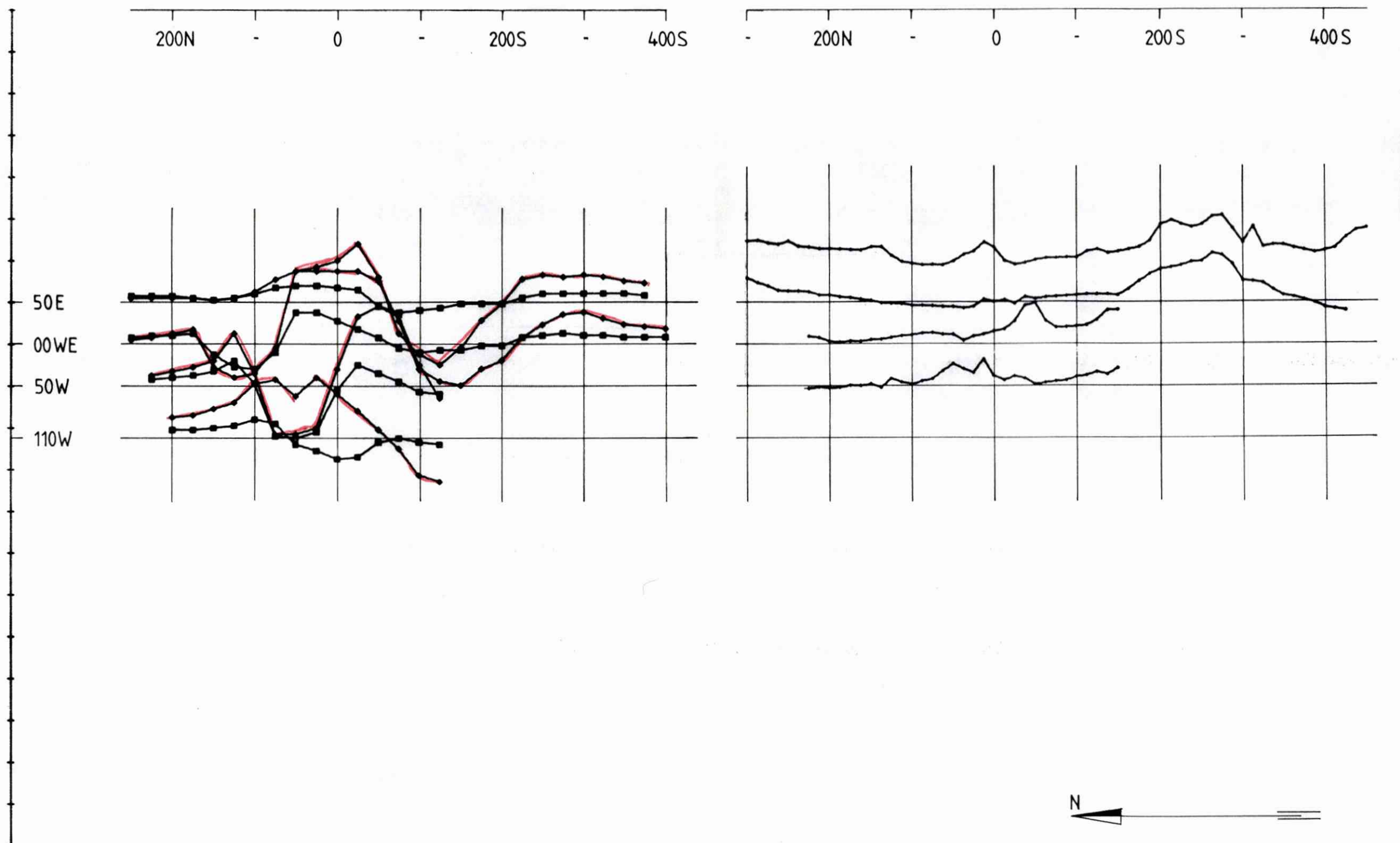
ANDRE:

KOMMENTAR:

This is a preliminary statusreport of June -84 displaying the
geophysical data as surveyed and plotted from the areas listed
above.



LOCATION MAP
1:400.000



OMR. 37 1777 HZ 100M COIL SEP.
ELEMENT MARKOR
RH
IH

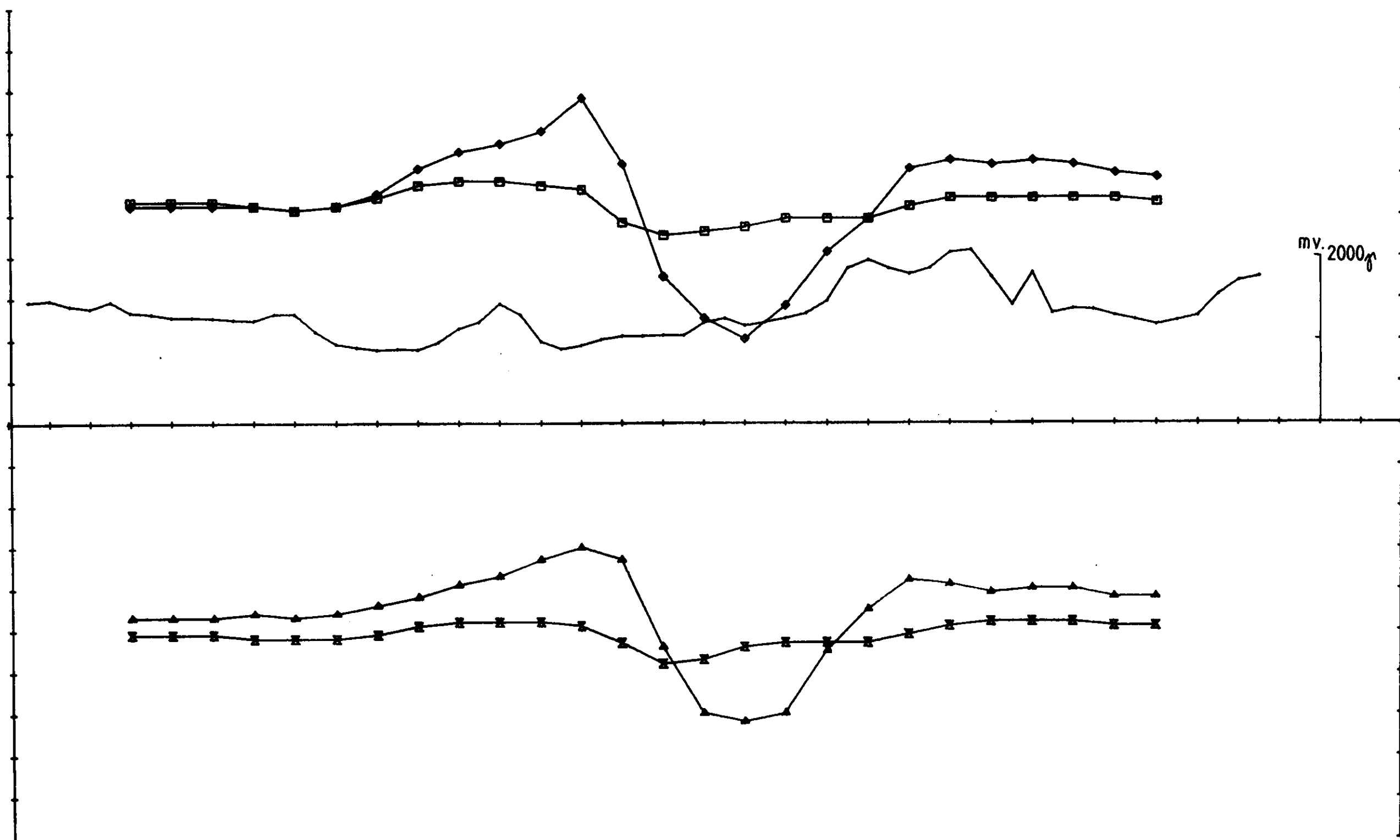
OMR. 37
EM - MAG
KAUTOKEINO

SCALE	OBS.	04-84
1:5000	DRAW.	05-84
	TRAC.	05-84
	CHK.	

$\frac{N}{S}$ SULFIDMALM

MAP NO.

MAP SHEET



OMR, 37 1777/222HZ 100M COIL SEP, PROFILE 3705DES1.

ELEMENT	MARKOR	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-30.0	20.0	500.0	10.0
IH	□—□	-5.0	6.0	500.0	10.0
RL	▲—▲	-22.0	20.0	-500.0	10.0
IL	×—×	-8.0	2.0	-500.0	10.0

X - SKALERING 100.0
 X - OFFSET 200.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

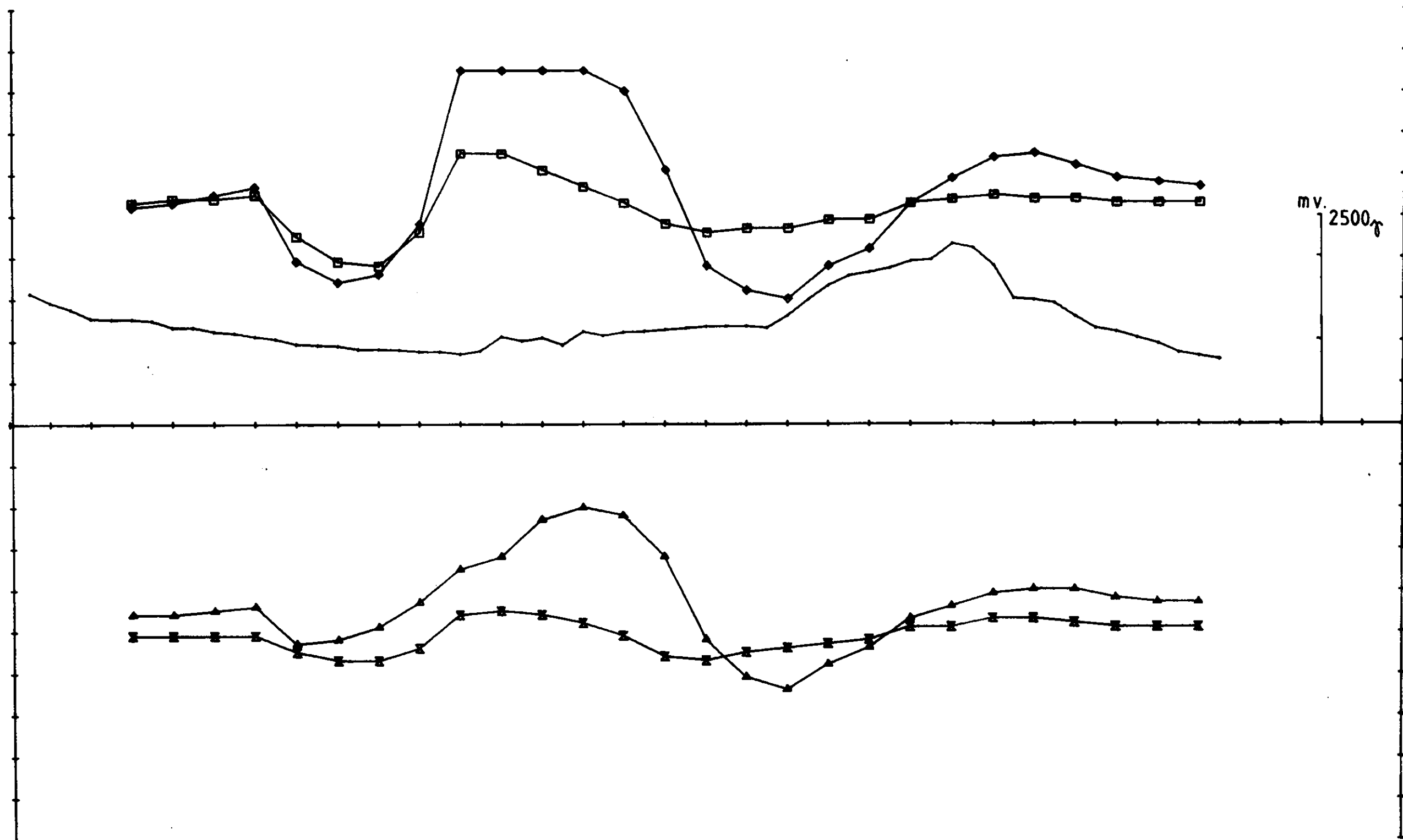
OMR. 37
 EM - MAG
 KAUTOKEINO

1/8 SULFIDMALM

SCALE	OBS.	04-84
1:2500	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET



OMR.37 1777/222HZ 100M COIL SEP, PROFILE 3700WES1.

ELEMENT	MARKOR	MIN.VERDI	MAX.VERDI	OFFSET	SKALA
RH	◆—◆	-20.0	35.0	500.0	10.0
IH	□—□	-12.0	15.0	500.0	10.0
RL	▲—▲	-14.0	30.0	-500.0	10.0
IL	×—×	-7.0	5.0	-500.0	10.0

X - SKALERING 100.0
 X - OFFSET 200.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

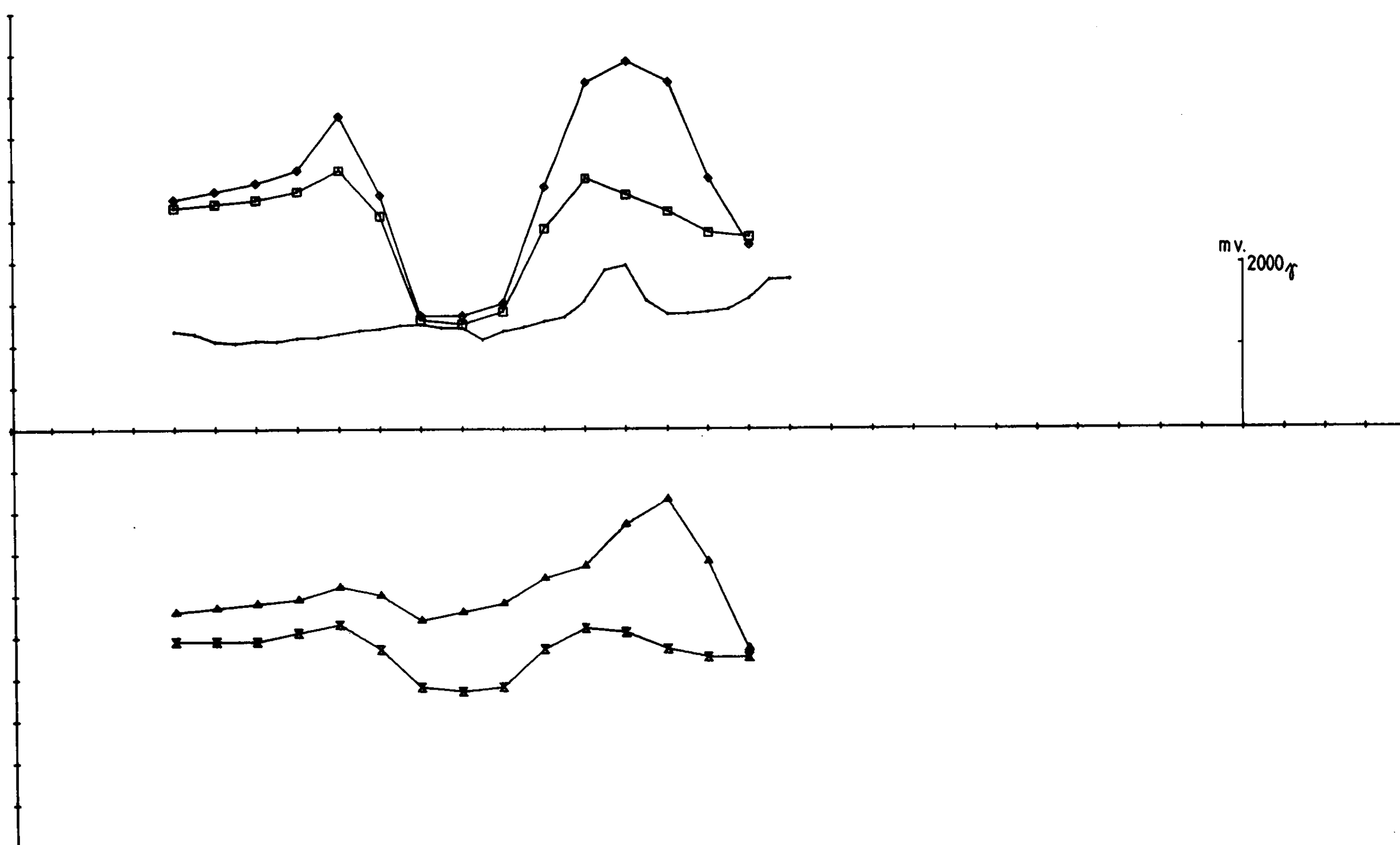
OMR. 37
 EM - MAG
 KAUTOKEINO

⅓ SULFIDMALM

SCALE 1:2500	OBS.	04-84
	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET



OMR, 37 1777/222HZ 100M COIL SEP, PROFILE 37050WS1.

ELEMENT	MARKER	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-23.0	30.0	500.0	10.0
IH	□—□	-25.0	12.0	500.0	10.0
RL	▲—▲	-3.0	33.0	-500.0	10.0
IL	×—×	-13.0	3.0	-500.0	10.0

X - SKALERING 100.0
 X - OFFSET 300.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

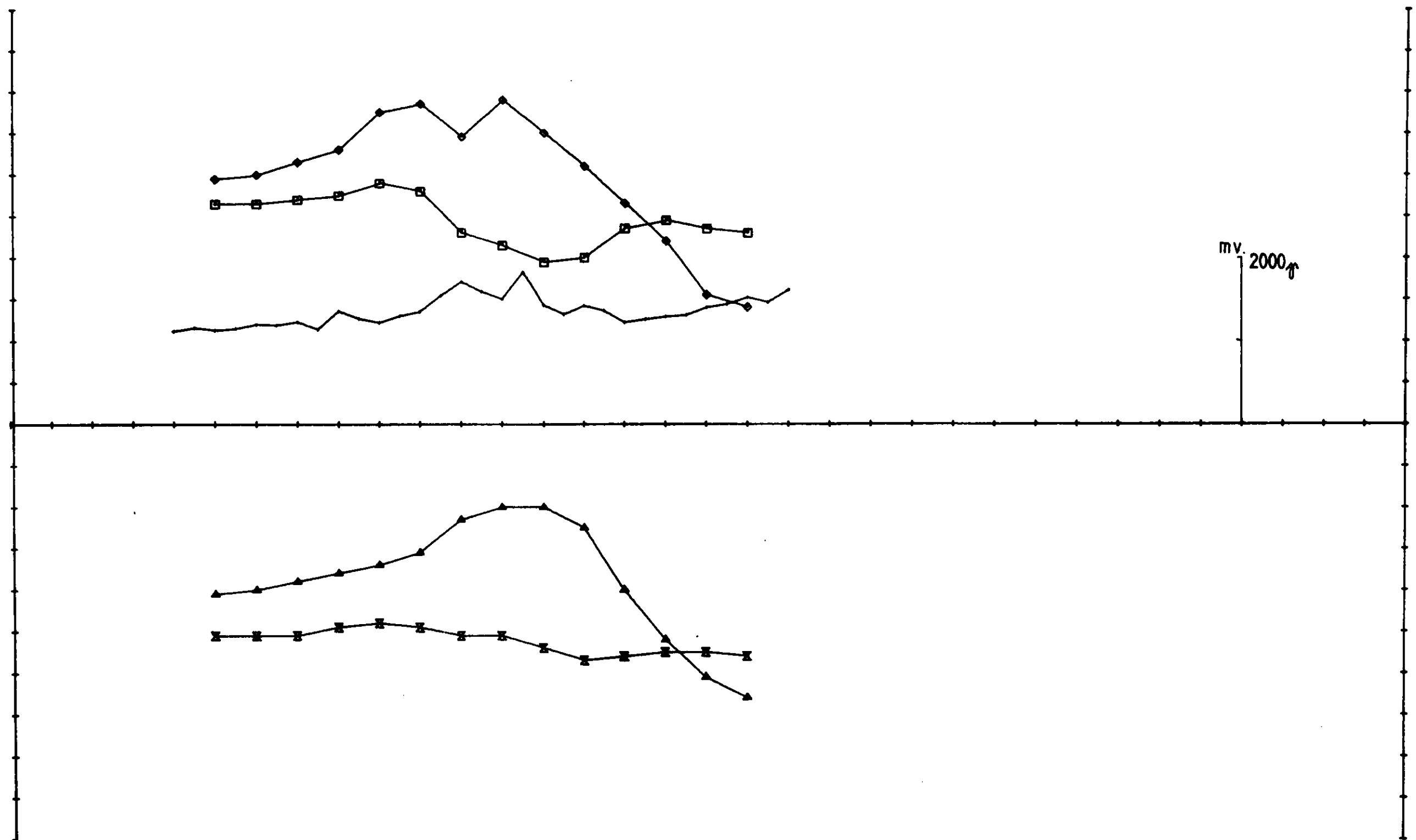
OMR. 37
 EM - MAG
 KAUTOKEINO

$\frac{N}{S}$ SULFIDMALM

SCALE	OBS.	04-84
1:2500	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET



OMR, 37 1777/222HZ 100M COIL SEP, PROFILE 37110WS1 .

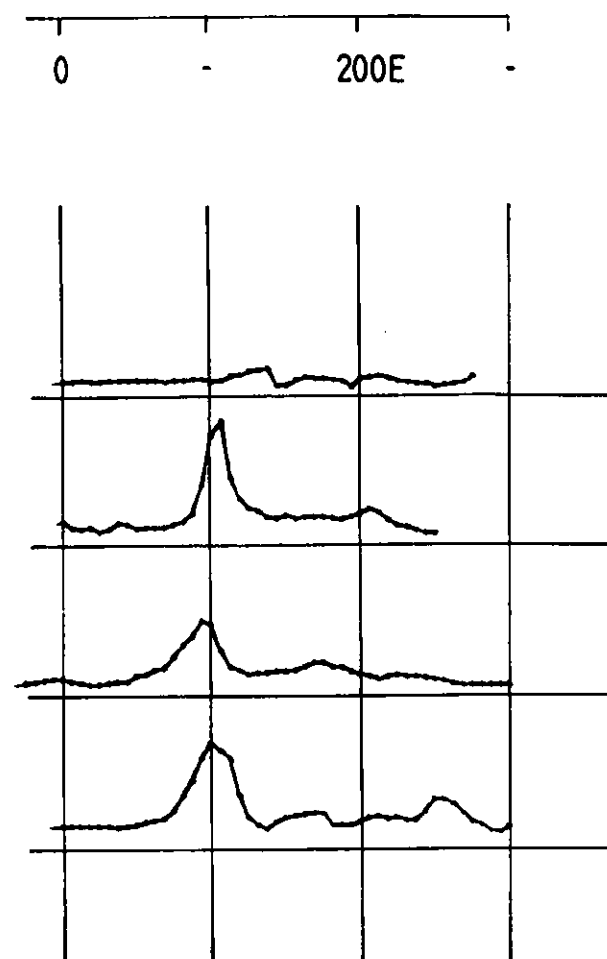
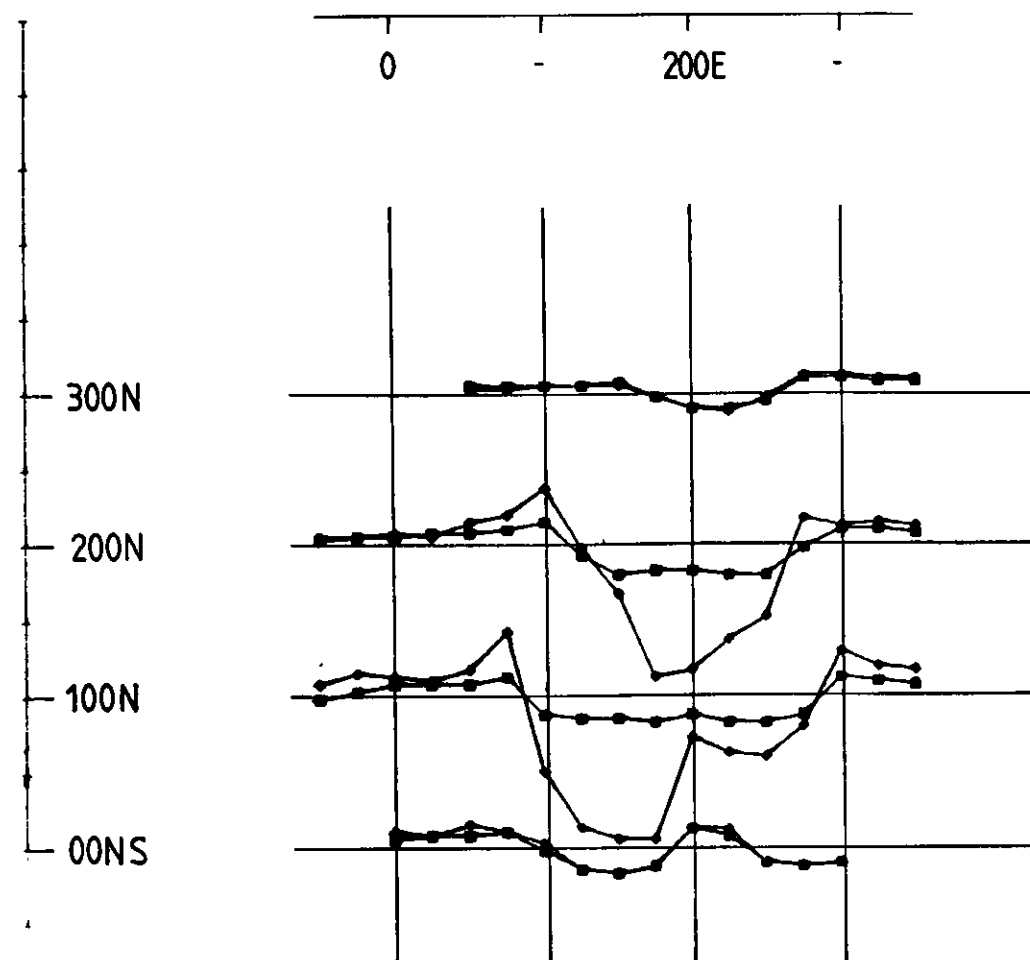
ELEMENT	MARKER	MIN. VERDI	MAX. VERDI	OFFSET	SKALA	
RH	◆	-22.0	26.0	-500.0	10.0	X - SKALERING 100.0
IH	■	-11.0	6.0	-500.0	10.0	X - OFFSET 400.0
RL	▲	-16.0	30.0	-500.0	10.0	X = 0 - 3400 DELER
IL	■	-7.0	2.0	-500.0	10.0	Y = +/- 1000 DELER

OMR. 37
EM - MAG
KAUTOKEINO

1/3 SULFIDMALM

SCALE 1:2500	OBS.	04-84
	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.
MAP SHEET



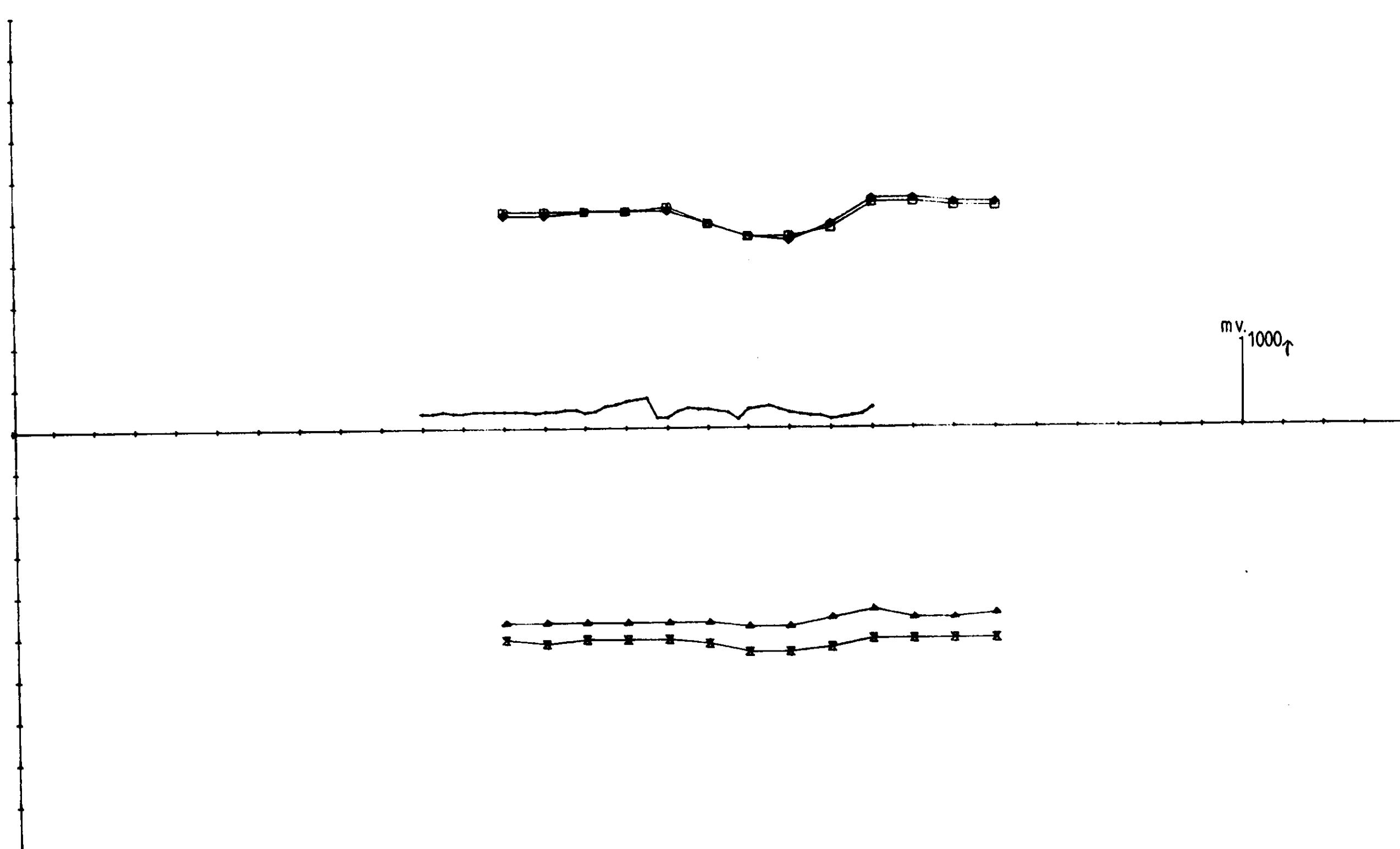
OMR. 66 1777. HZ 100M COIL SEP
 ELEMENT MARKOR
 RH —◆—
 IH —□—

OMR. 66
 EM - MAG
 KAUTOKEINO

SCALE 1:5000	OBS.	04-84
	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.
MAP SHEET

$\frac{1}{2}$ SULFIDMALM



OMR.66 1777/222HZ 100M COIL SEP. PROFILE 300N.

ELEMENT	MARKOR	MIN.VERDI	MAX.VERDI	OFFSET	SKALA
RH	◆—◆	-5.0	5.0	500.0	10.0
IH	□—□	-4.0	4.0	500.0	10.0
RL	▲—▲	0.0	6.0	-500.0	10.0
IL	⊠—⊠	-4.0	0.0	-500.0	10.0

X - SKALERING 100.0
 X - OFFSET 1100.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

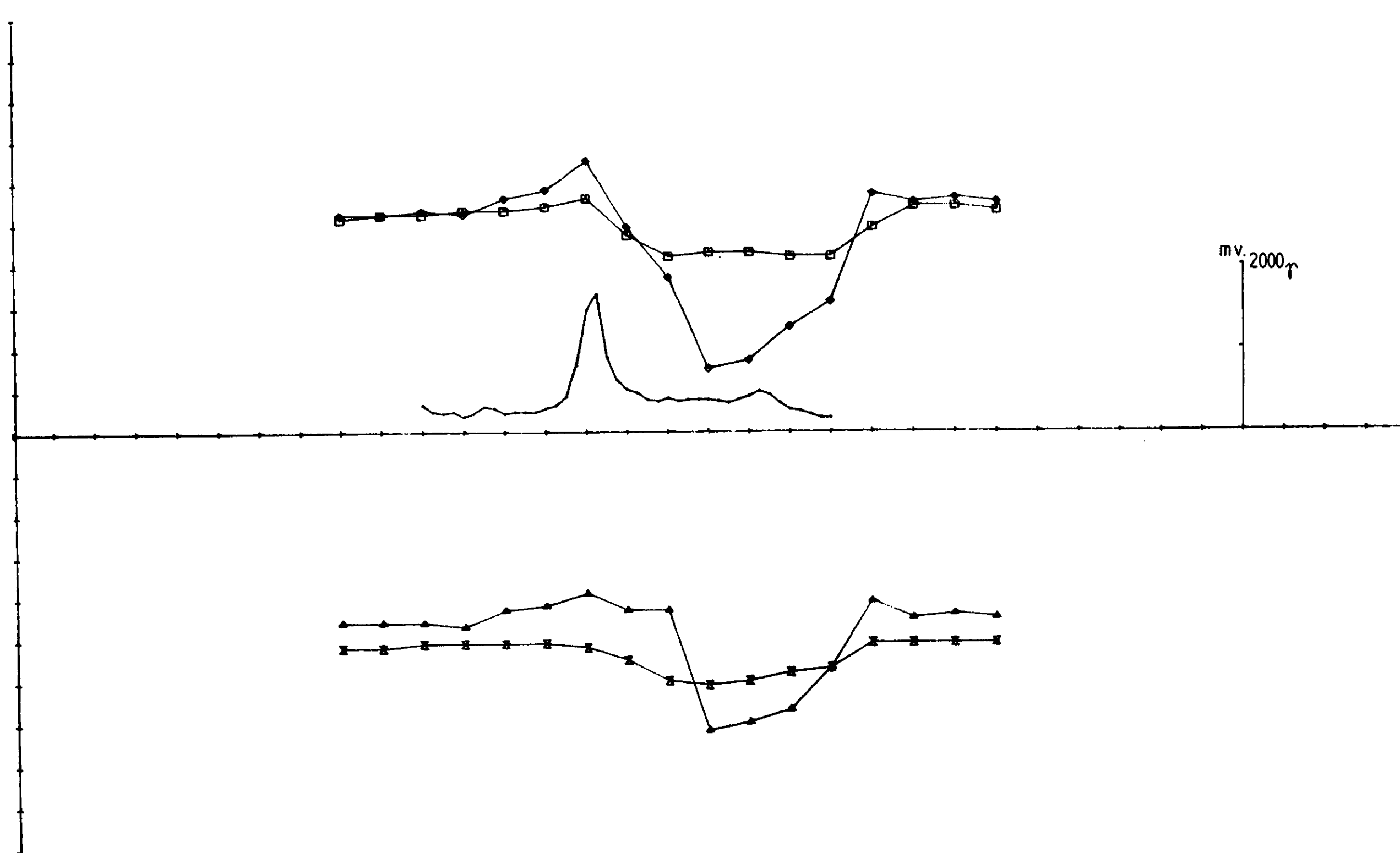
OMR. 66
 EM - MAG
 KAUTOKEINO

$\frac{1}{8}$ SULFIDMALM

SCALE	OBS.	04-84
1:2500	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET



OMR. 66 1777/222HZ 100M COIL SEP. PROFILE 200N.

ELEMENT	MARKER	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-35.0	15.0	500.0	10.0
IH	□—□	-6.0	6.0	500.0	10.0
RL	▲—▲	-22.0	11.0	-500.0	10.0
IL	■—■	-11.0	0.0	-500.0	10.0

X - SKALERING 100.0
 X - OFFSET 700.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

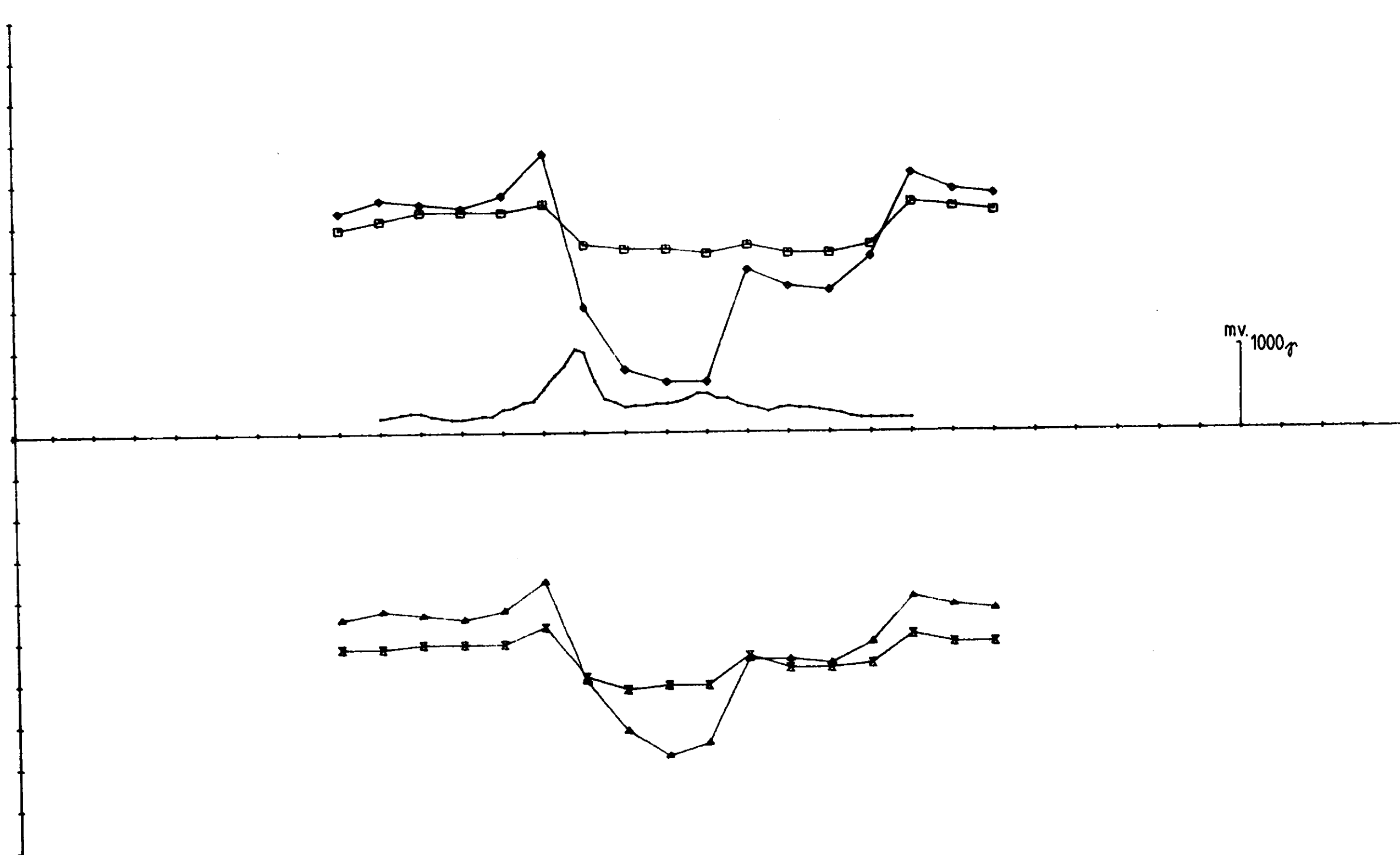
OMR. 66
 EM - MAG
 KAUTOKEINO

$\frac{1}{\%}$ SULFIDMALM

SCALE 1:2500	OBS.	04-84
	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET



OMR.66 1777/222HZ 100M COIL SEP. PROFILE 100N.

ELEMENT	MARKOR	MIN.VERDI	MAX.VERDI	OFFSET	SKALA
RH	—●—	-38.0	12.0	500.0	10.0
IH	—□—	-7.0	5.0	500.0	10.0
RL	—▲—	-28.0	14.0	-500.0	10.0
IL	—■—	-12.0	3.0	-500.0	10.0

X - SKALERING 100.0
 X - OFFSET 700.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

OMR. 66

EM - MAG
 KAUTOKEINO

$\frac{1}{8}$ SULFIDMALM

SCALE	OBS.	04-84
1:2500	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET

OMR.66 1777/222HZ 100M COIL SEP, PROFILE DONS .

ELEMENT	MARKOR	MIN.VERDI	MAX.VERDI	OFFSET	SKALA
RH	◆—◆	-7.0	6.0	500.0	10.0
IH	■—■	-7.0	5.0	500.0	10.0
RL	▲—▲	-1.0	5.0	-500.0	10.0
IL	■—■	-5.0	0.0	-500.0	10.0

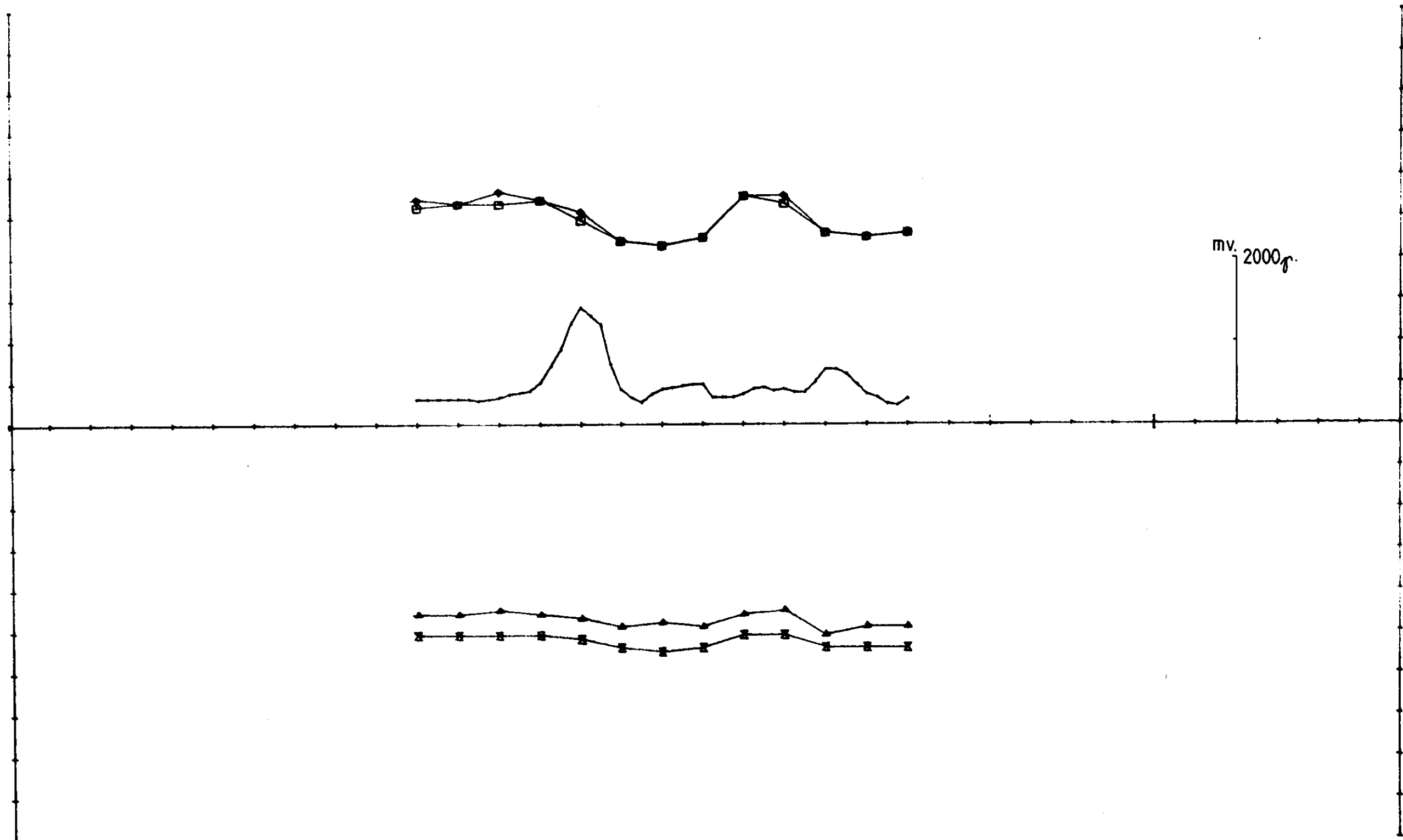
X - SKALERING 100.0
 X - OFFSET 900.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

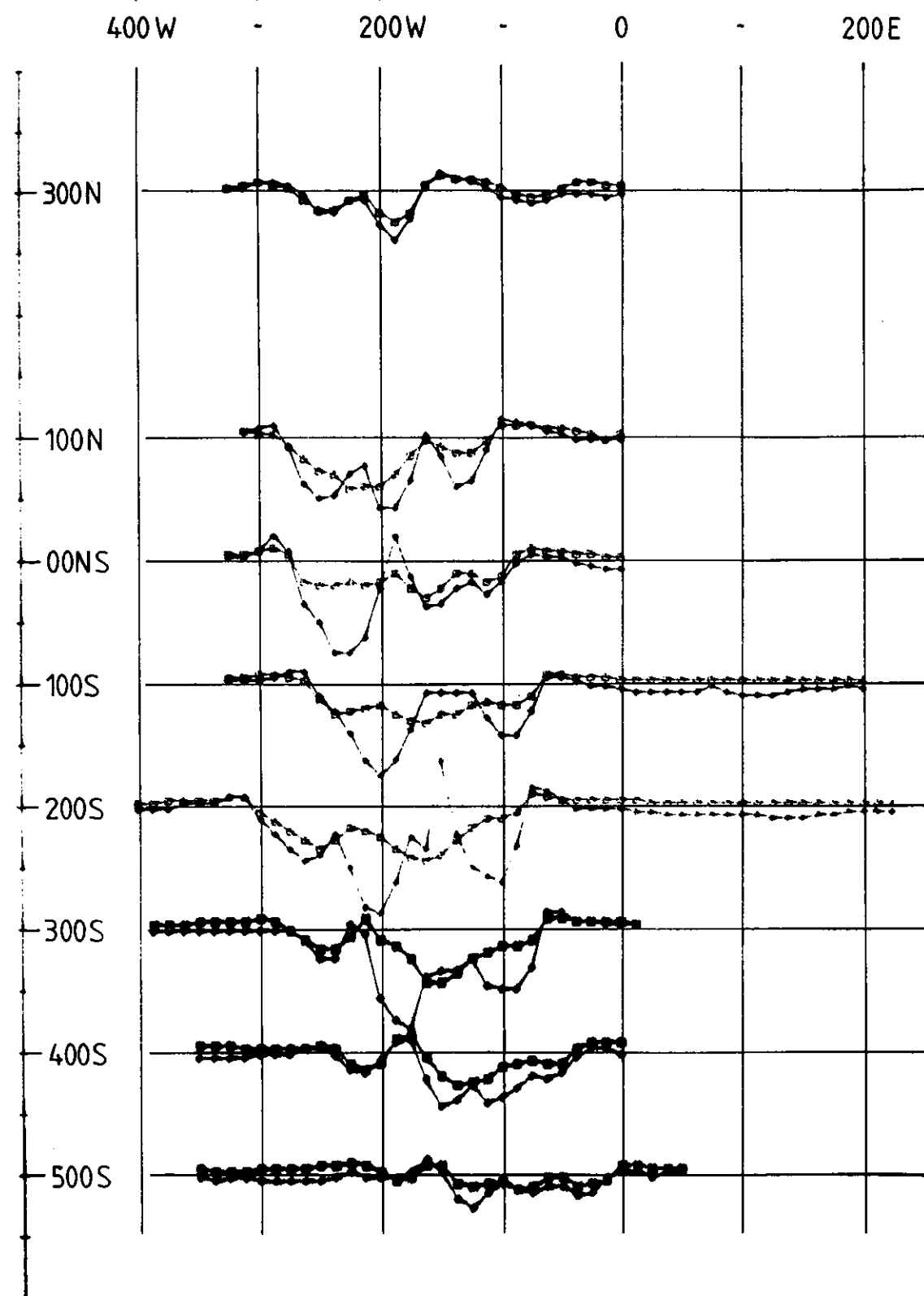
OMR. 66
 EM - MAG
 KAUTOKEINO

$\frac{1}{8}$ SULFIDMALM

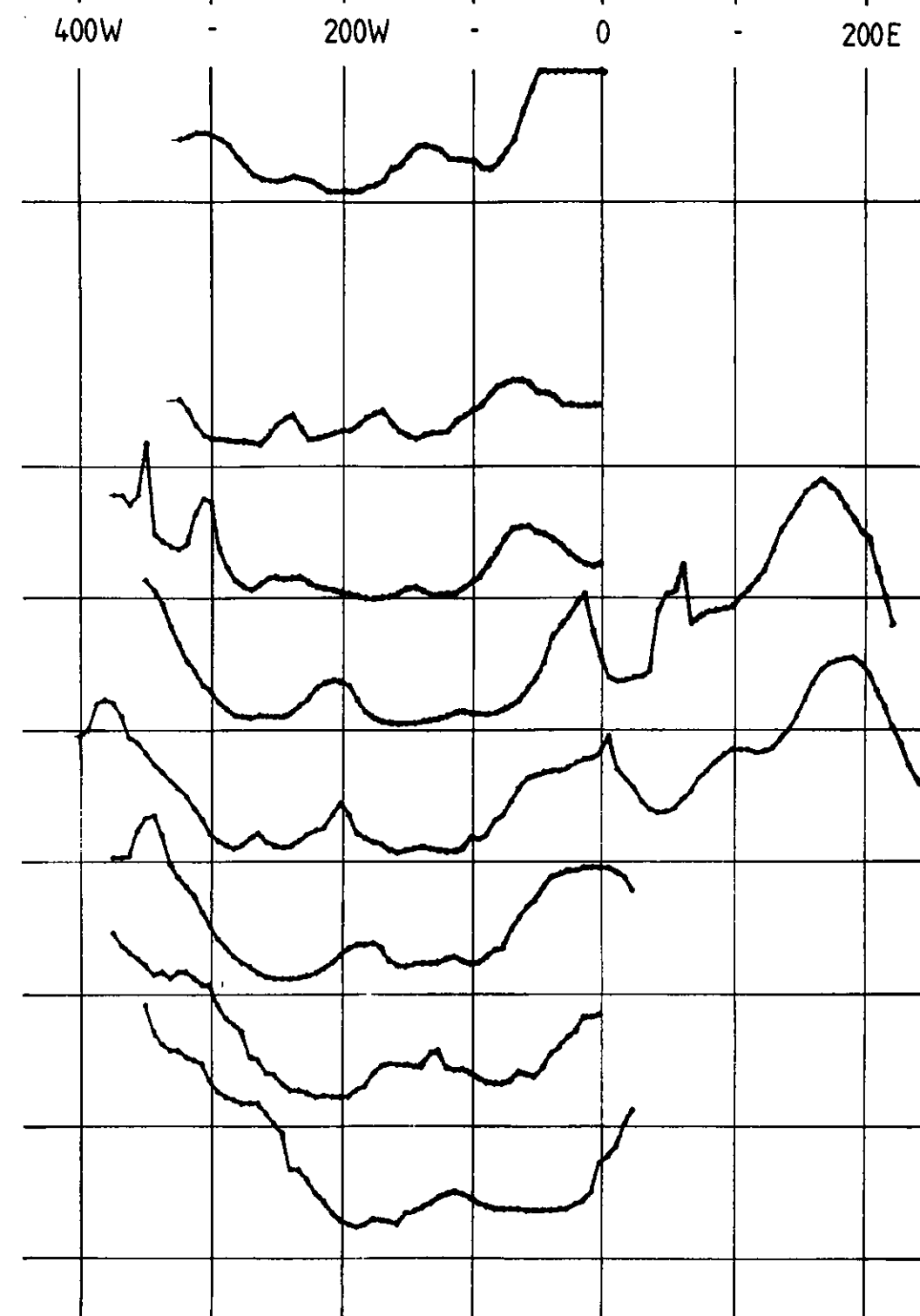
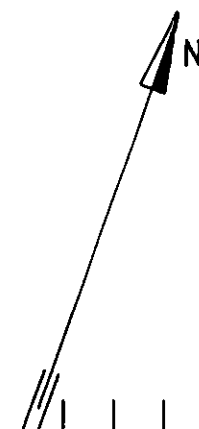
SCALE	OBS.	04-84
1:2500	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.
MAP SHEET





OMR. 68 1777 HZ 50M COIL SEP.
ELEMENT MARKOR
RH $\bullet$ — $\bullet$
IH $\square$ — $\square$



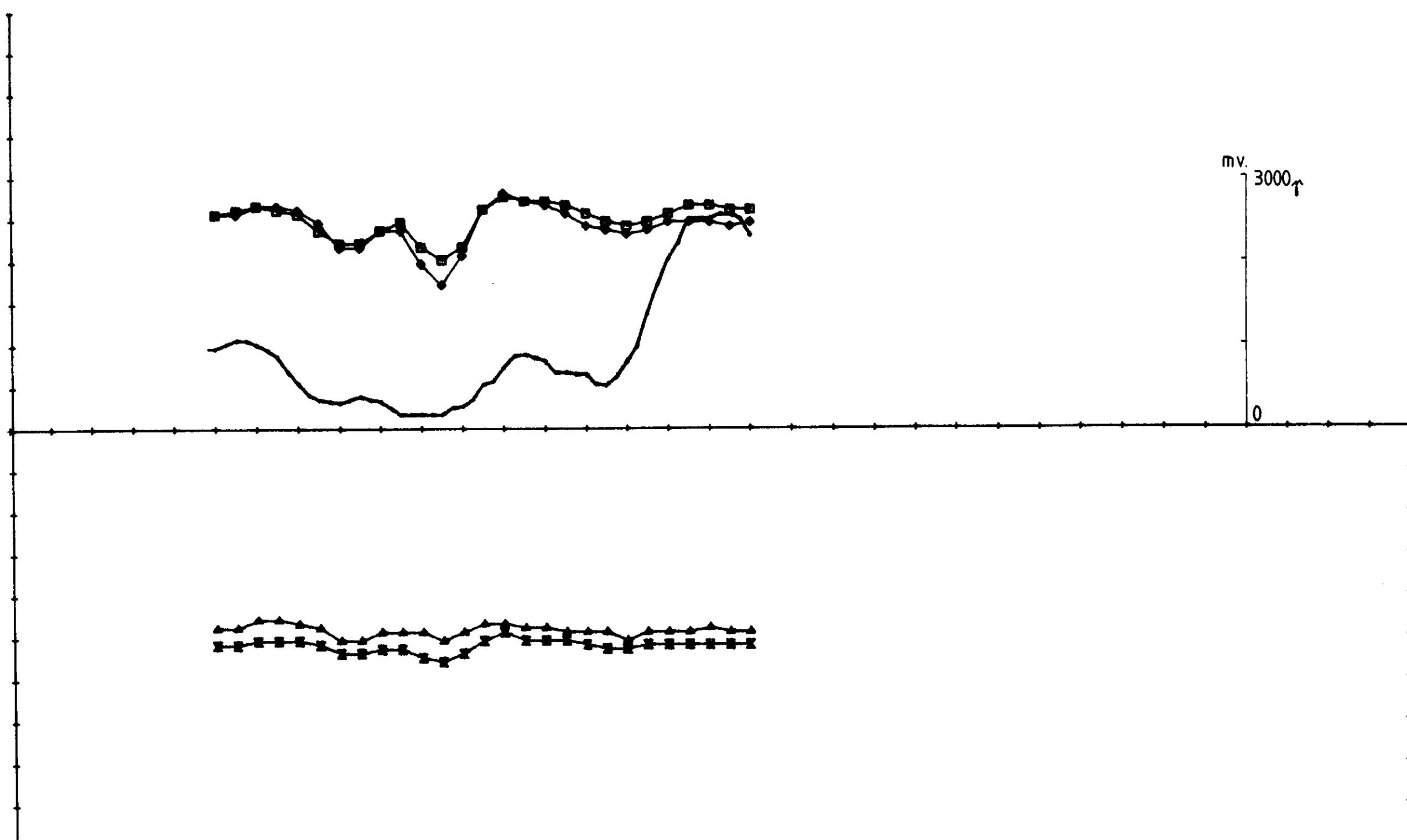
OMR. 68
EM - MAG
KAUTOKEINO

$\frac{1}{5}$ SULFIDMALM

SCALE	OBS.	04-84
1:5000	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET

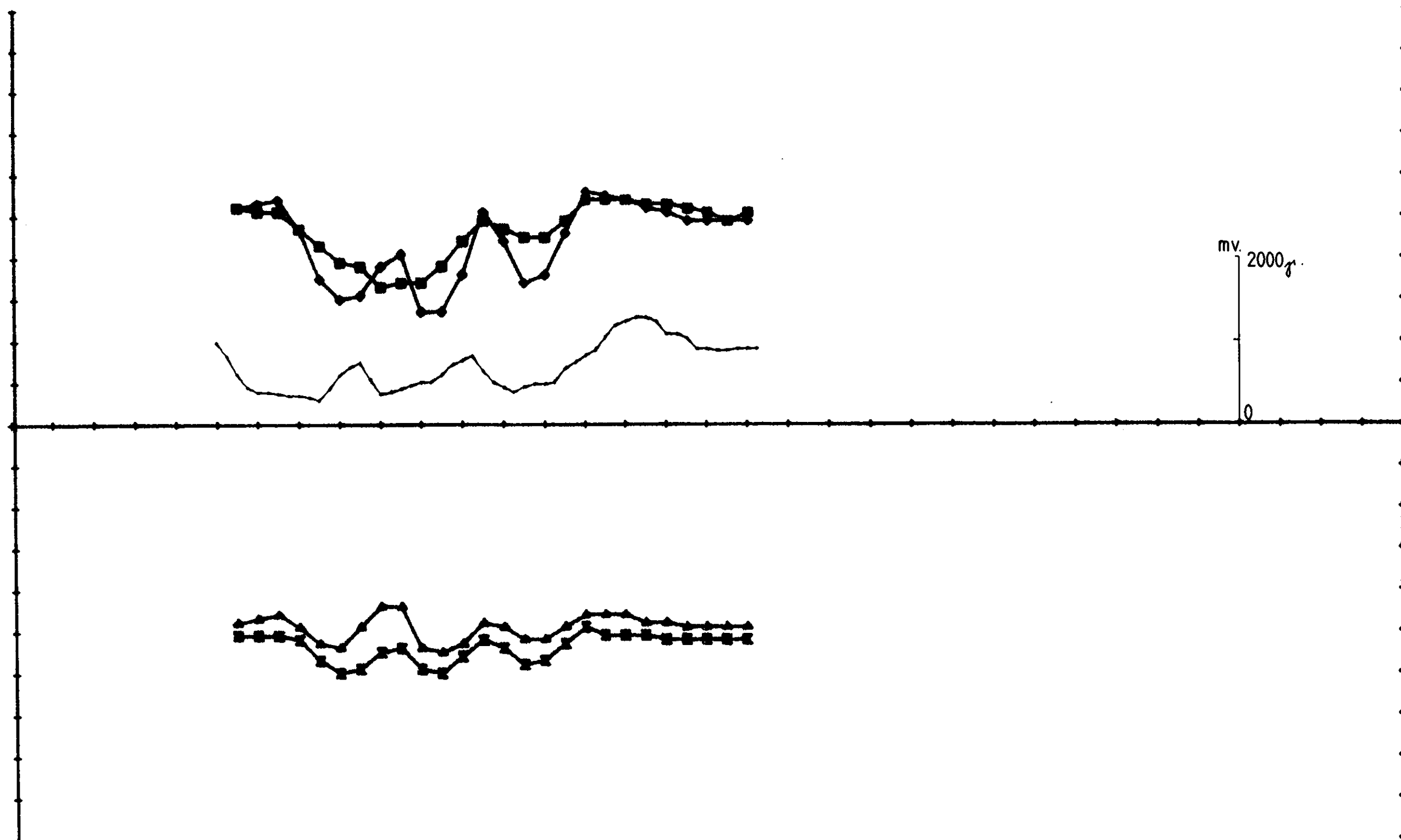


OMR. 68 1777/222HZ 50M COIL SEP. PROFILE 300N.

ELEMENT	MARKER	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-10.0	0.0	500.0	10.0
IH	■—■	-10.0	5.0	500.0	10.0
RL	▲—▲	-1.0	4.0	-500.0	10.0
IL	⦿—⦿	-0.0	1.0	-500.0	10.0

X - CENTERING 50.0
 X - OFFSET 450.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

OMR. 68 EM - MAG KAUTOKEINO	SCALE	OBS.	04-84
	1:2500	DRAW.	05-84
		TRAC.	05-84
		CHK.	
1/3 SULFIDMALM	MAP NO.		
	MAP SHEET		



OMR. 68 1777/222HZ SON COIL SEP. PROFILE 100M.

ELEMENT MARKER COIL. VERT. MAG. VERT. OFFSET SCALE

RH	—●—	-25.0	0.0	200.0	10.0
IH	—■—	-17.0	4.0	200.0	10.0
RL	—▲—	-5.0	0.0	-200.0	10.0
IL	—■—	-10.0	1.0	-200.0	10.0

X - SENSITIVITY 20.0

Z - OFFSET 200.0

K = 0 - 3400 DELTA

T = +/- 1000 DELTA

OMR. 68

EM - MAG

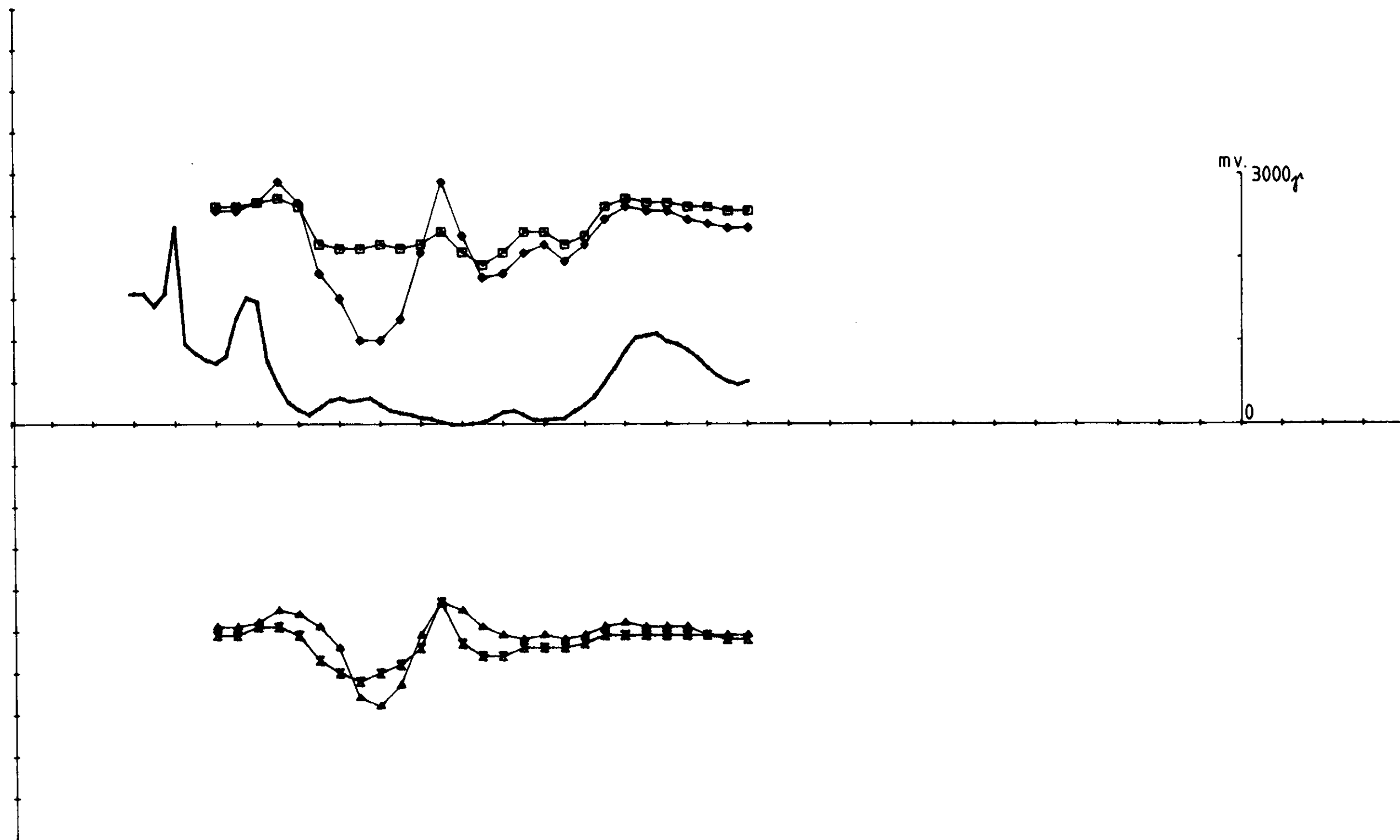
KAUTOKEINO

1/5 SULFIDMALM

SCALE 1:2500	OBS.	04-84
	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET



OMR.68 1777/222HZ 50M COIL SEP,PROFILE DONS.

ELEMENT	MARKER	MIN.VERDI	MAX.VERDI	OFFSET	SIGMA
RH	—◆—	-30.0	0.0	500.0	10.0
IH	—■—	-12.0	4.0	500.0	10.0
RL	—▲—	-10.0	7.0	-500.0	10.0
IL	—x—	-12.0	7.0	-500.0	10.0

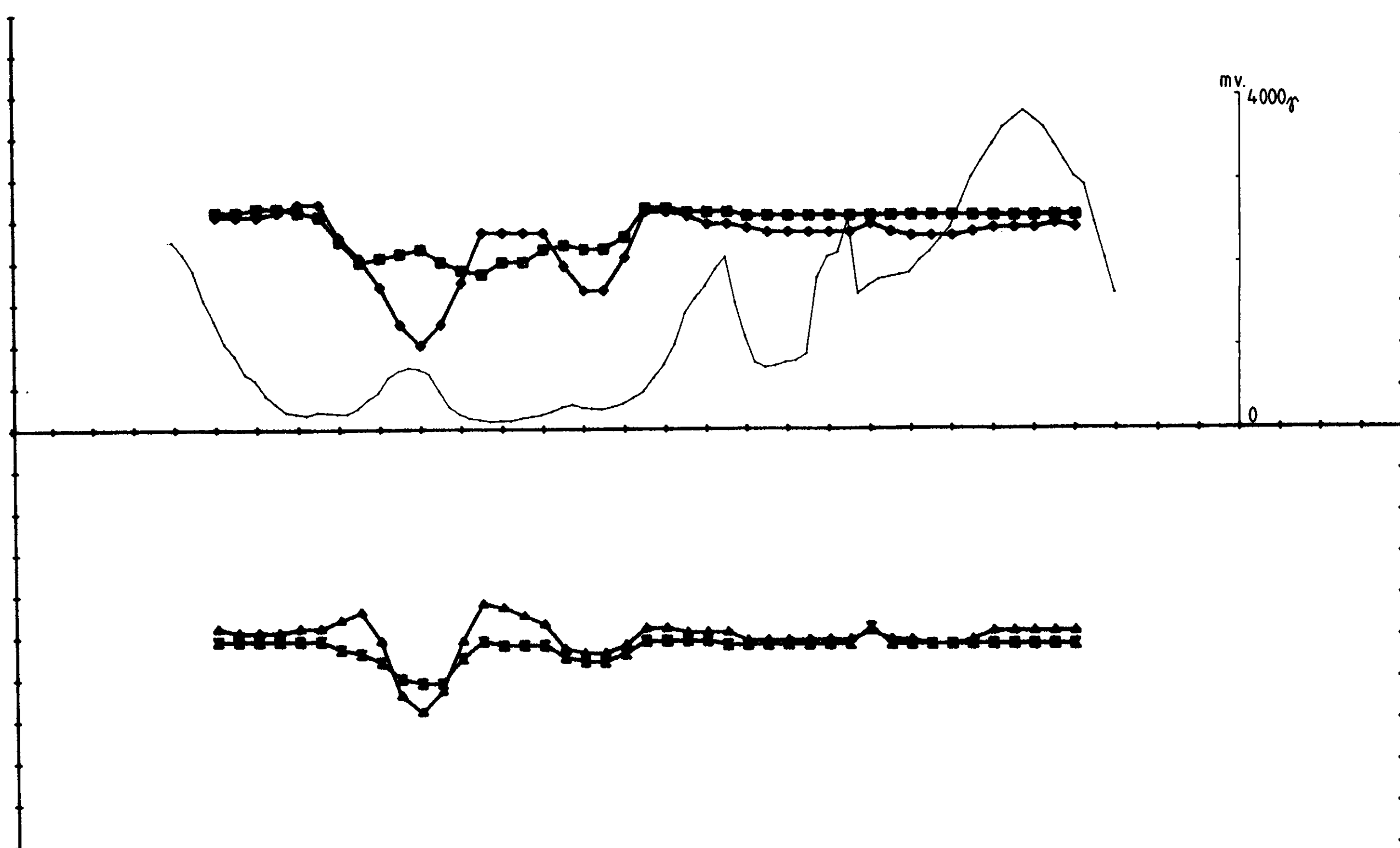
X - SKALERING 50.0
 X - OFFSET 450.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

OMR. 68
 EM - MAG
 KAUTOKEINO

SCALE 1:2500	OBS.	04-84
	DRAW.	05-84
	TRAC.	05-84
	CHK.	

1/8 SULFIDMALM

MAP NO.
MAP SHEET



OMR.68 12727/222HZ 50M COIL SEP. PROFILE 100S.

ELEMENT	MARKOR	MIN.VERDI	MAX.VERDI	OFFSET	SKALA
RH	◆—◆	-30.0	4.0	500.0	10.0
IH	□—□	-13.0	3.0	500.0	10.0
RL	▲—▲	-10.0	0.0	-500.0	10.0
IL	✕—✕	-11.0	2.0	-500.0	10.0

X - SKALERING 50.0
 X - OFFSET 450.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

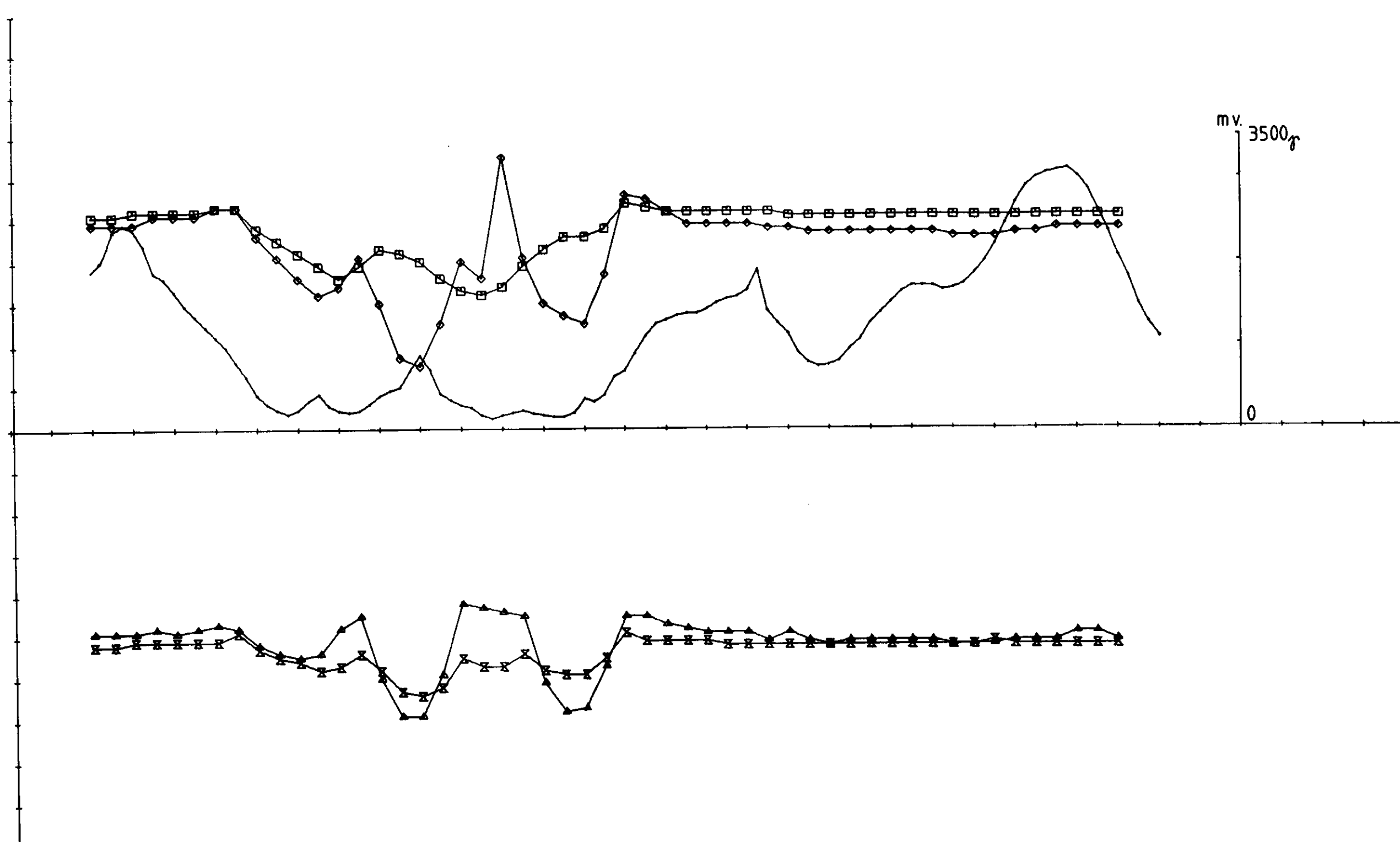
OMR. 68
 EM - MAG
 KAUTOKEINO

1/3 SULFIDMALM

SCALE	OBS.	04-84
1:2500	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET



OMR, 68 1777/222HZ 50M COIL SEP, PROFILE 200S .

ELEMENT	MARKØR	MIN.VERDI	MAX.VERDI	OFFSET	SKALA
RH	◆—◆	-35.0	15.0	500.0	10.0
IH	□—□	-18.0	4.0	500.0	10.0
RL	▲—▲	-19.0	8.0	-500.0	10.0
IL	×—×	-14.0	1.0	-500.0	10.0

X - SKALERING 50.0
 X - OFFSET 150.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

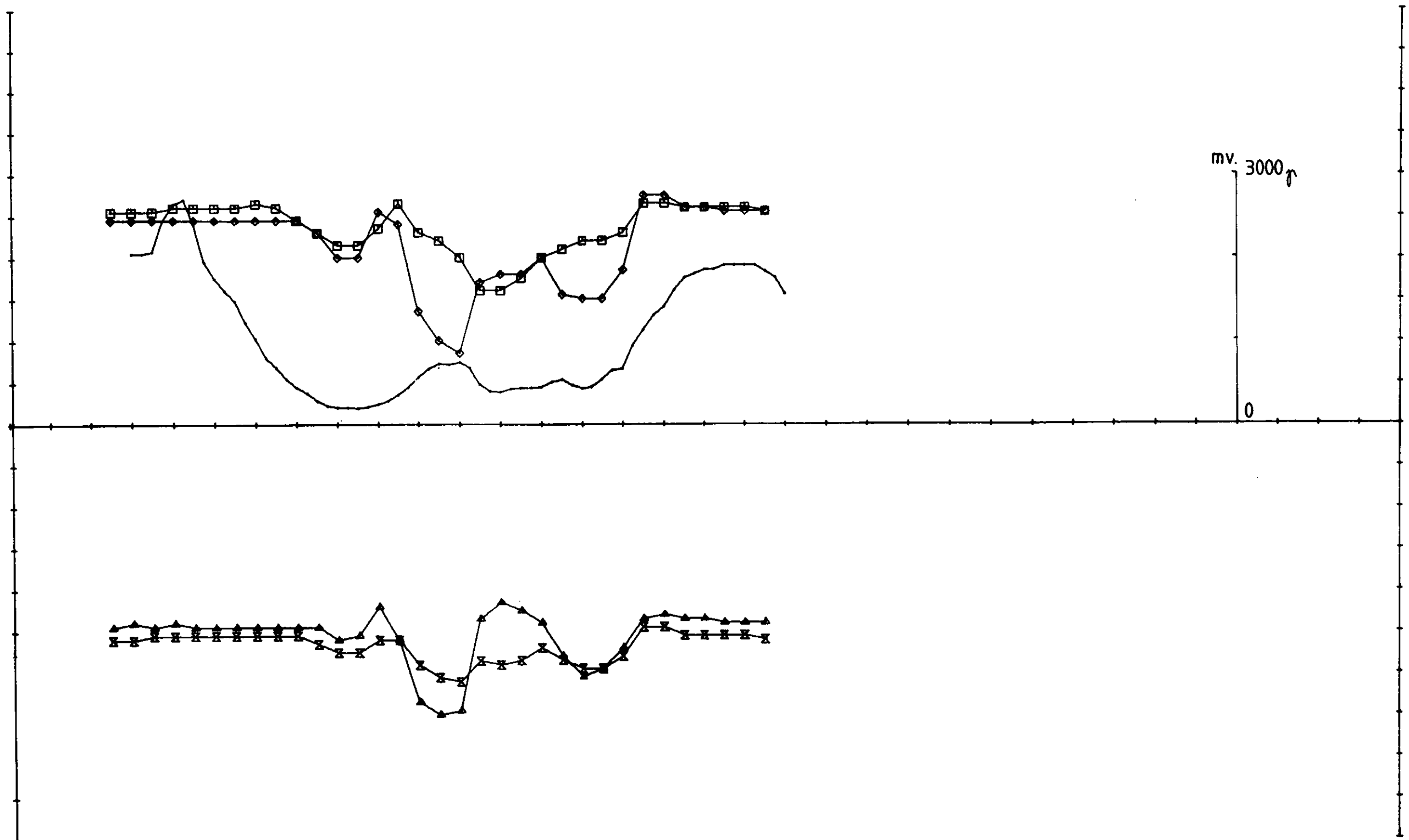
OMR. 68
 EM - MAG
 KAUTOKEINO

$\frac{1}{2}$ SULFIDMALM

SCALE 1:2500	OBS.	04-84
	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET



OMR, 68 1777/222HZ 50M COIL SEP, PROFILE 300S .

ELEMENT	MARKOR	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-33.0	5.0	500.0	10.0
IH	□—□	-18.0	3.0	500.0	10.0
RL	▲—▲	-20.0	7.0	-500.0	10.0
IL	×—×	-12.0	1.0	-500.0	10.0

X - SKALERING 50.0
 X - OFFSET 200.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

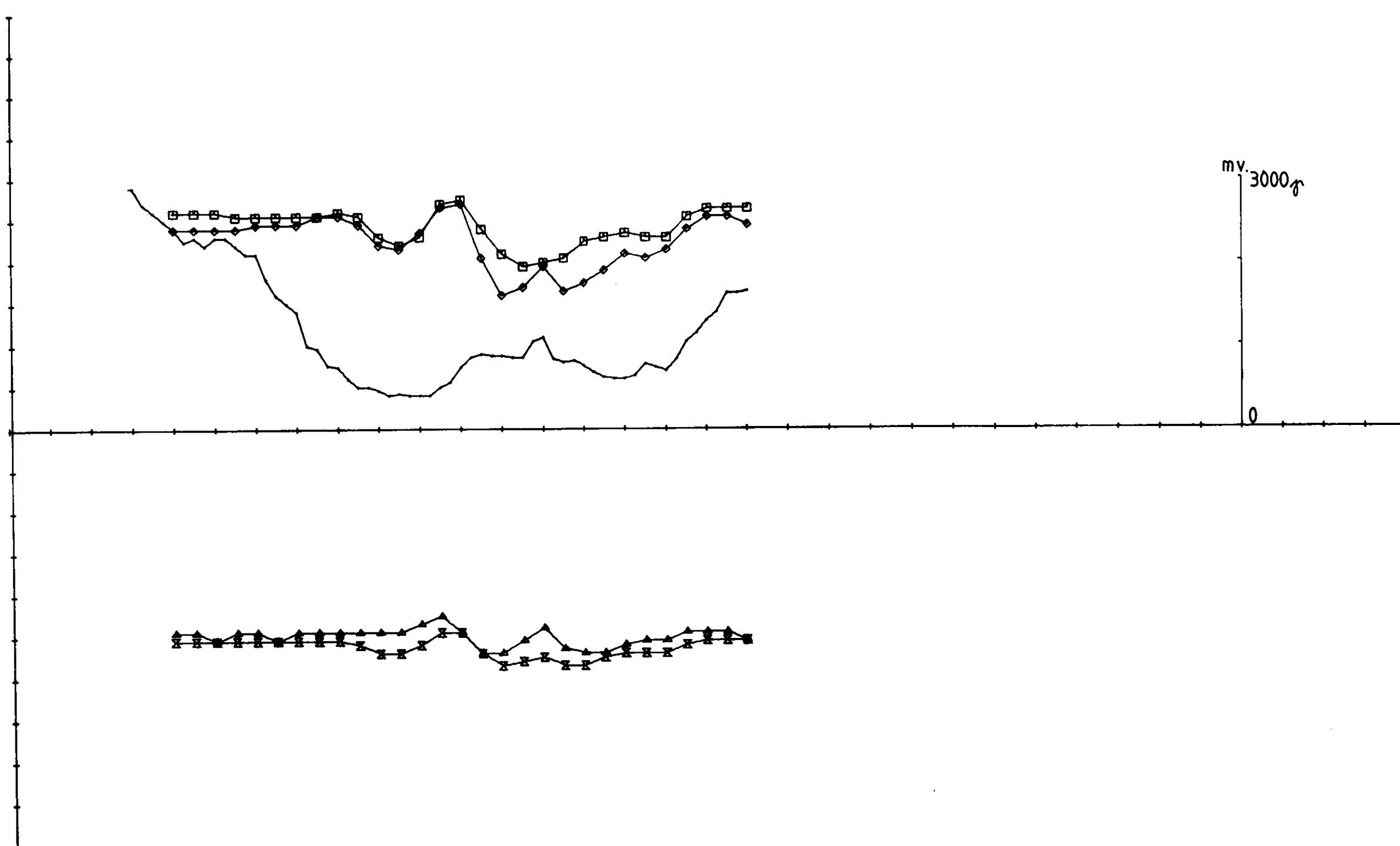
OMR. 68
 EM - MAG
 KAUTOKEINO

1/8 SULFIDMALM

SCALE	OBS.	04-84
1:2500	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET



OMR, 68 1777/222HZ 50M COIL SEP, PROFILE 400S.

ELEMENT	MARKØR	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-10.0	4.0	500.0	10.0
IH	□—□	-11.0	5.0	500.0	10.0
RL	▲—▲	-4.0	5.0	-500.0	10.0
IL	⋈—⋈	-7.0	1.0	-500.0	10.0

X - SKALERING 50.0
 X - OFFSET 350.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

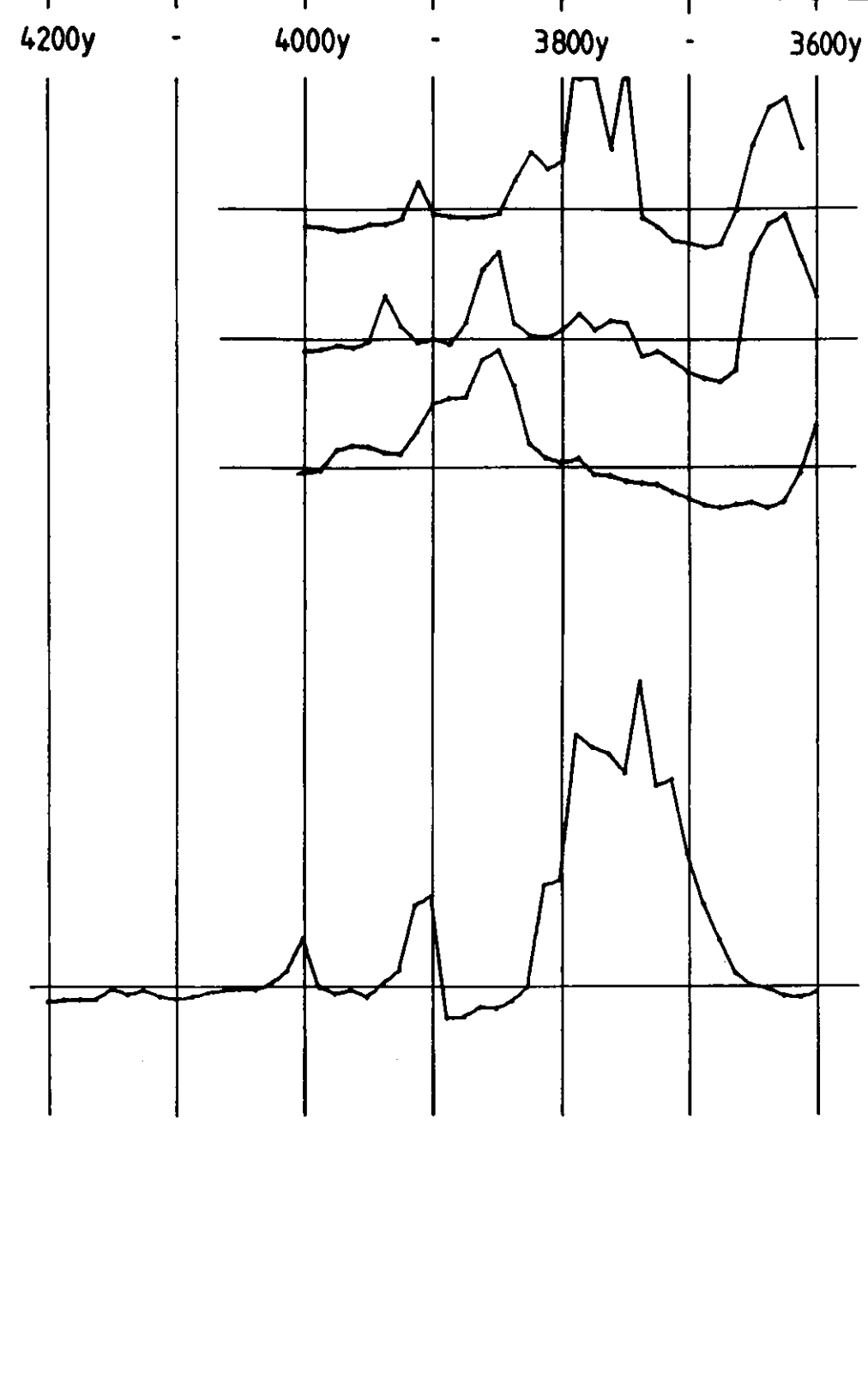
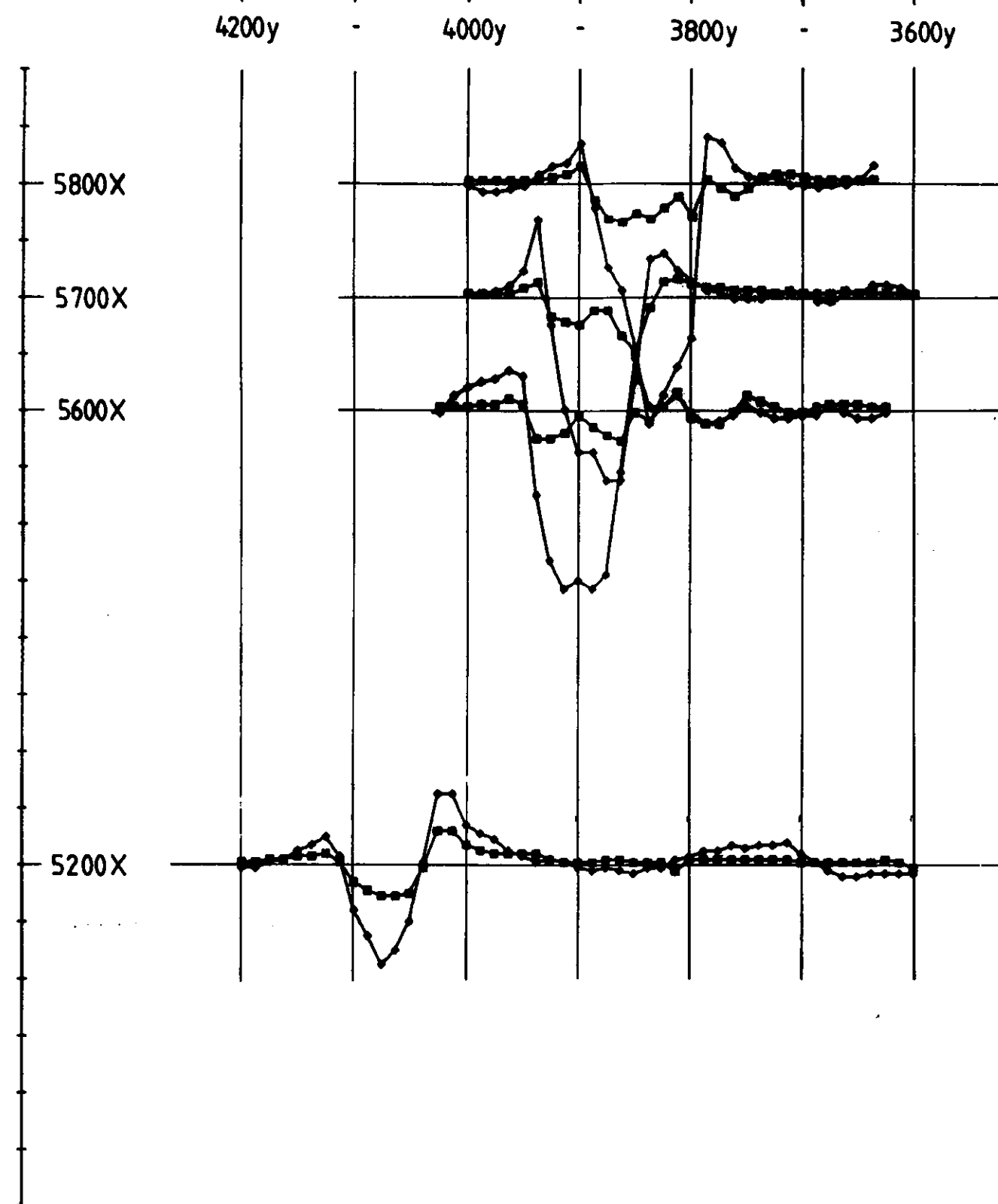
OMR. 68
 EM - MAG
 KAUTOKEINO

SCALE 1:2500	OBS.	04-84
	DRAW.	05-84
	TRAC.	05-84
	CHK.	

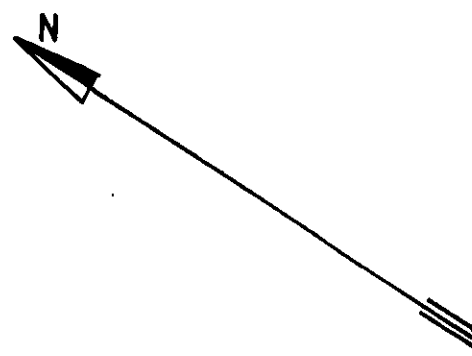
$\frac{N}{S}$ SULFIDMALM

MAP NO.

MAP SHEET



OMR, 69 1777 HZ 50M COIL SEP.
 ELEMENT MARKOR
 RH —●—
 IH —□—

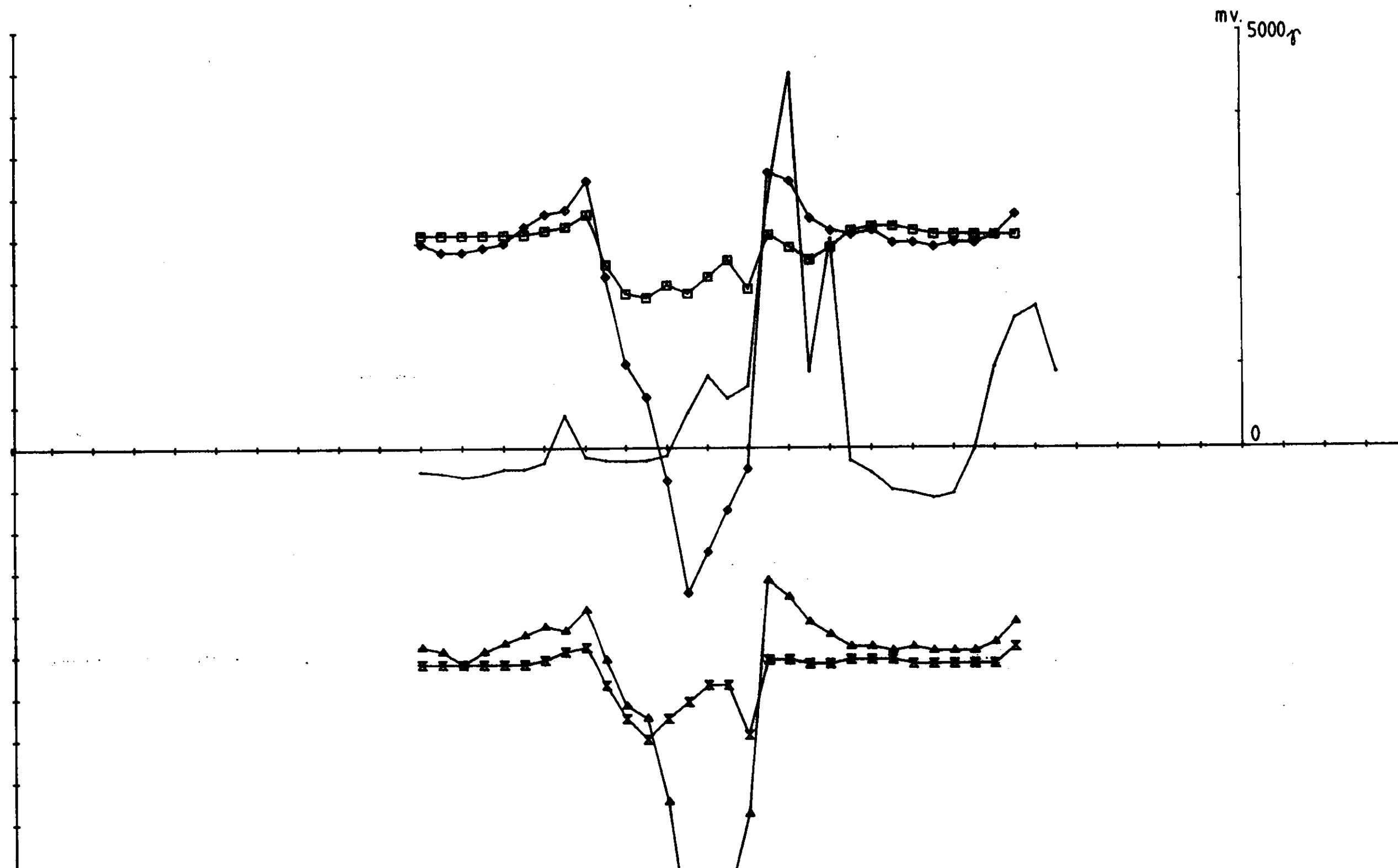


OMR. 69
 EM - MAG
 KAUTOKEINO

$\frac{1}{5}$ SULFIDMALM

SCALE	OBS.	04-84
1:5000	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.
MAP SHEET



OMR. 69 1777/222HZ 50M COIL SEP, PROFILE 580X.

ELEMENT	MARKOR	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-85.0	18.0	500.0	10.0
IH	■—■	-14.0	8.0	500.0	10.0
RL	▲—▲	-70.0	18.0	-500.0	10.0
IL	×—×	-20.0	2.0	-500.0	10.0

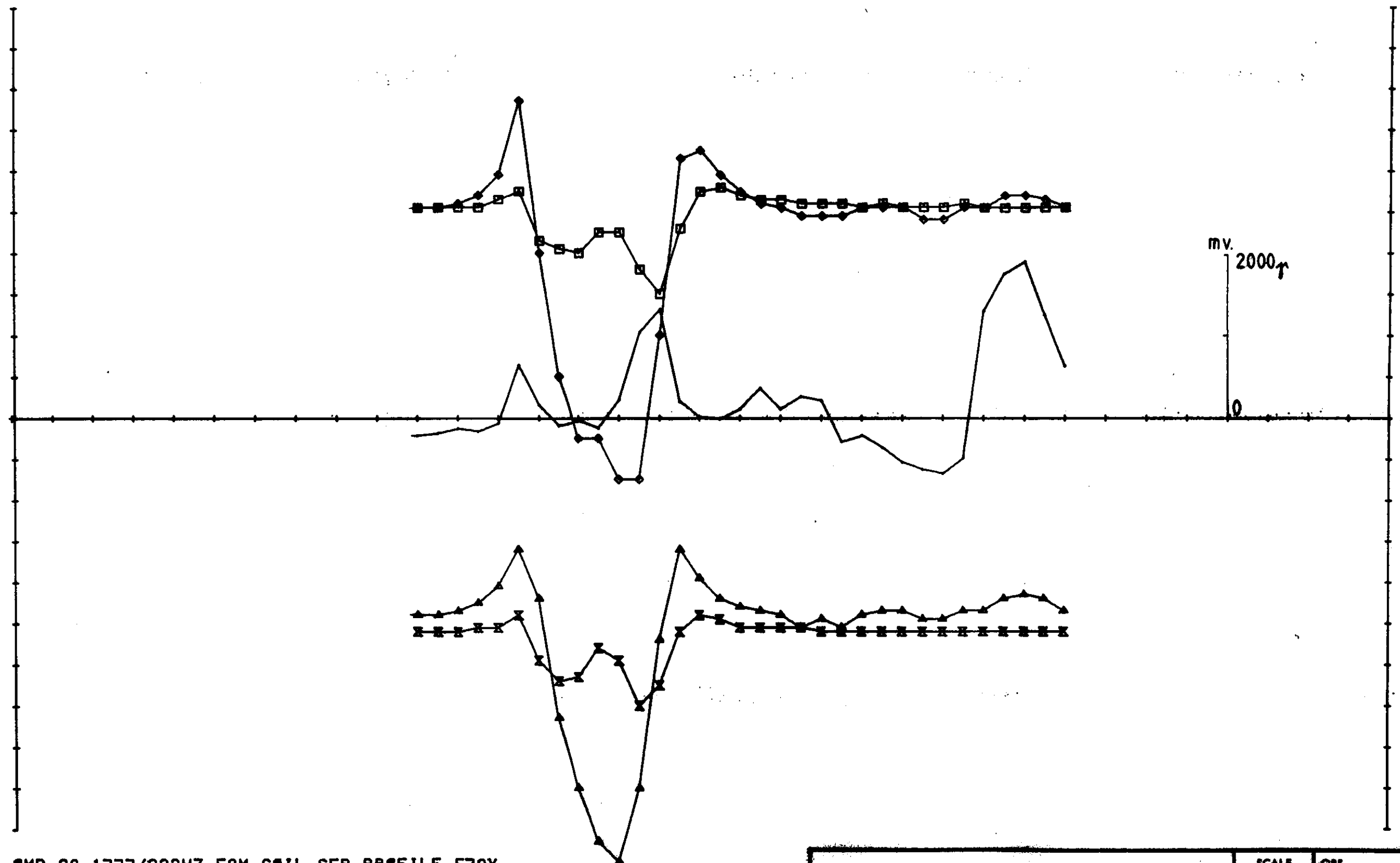
X - SKALERING 50.0
 X - OFFSET 950.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

OMR. 69
 EM - MAG
 KAUTOKEINO

SCALE 1:2500	OBS.	04-84
	DRAW.	05-84
	TRAC.	05-84
	CHK.	

$\frac{1}{2}$ SULFIDMALM

MAP NO.
MAP SHEET



OMR. 69 1777/222HZ 50M COIL SEP, PROFILE 570X.

ELEMENT	MARKOR	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-85.0	27.0	500.0	10.0
IH	□—□	-20.0	8.0	500.0	10.0
RL	▲—▲	-50.0	10.0	-500.0	10.0
IL	×—×	-20.0	2.0	-500.0	10.0

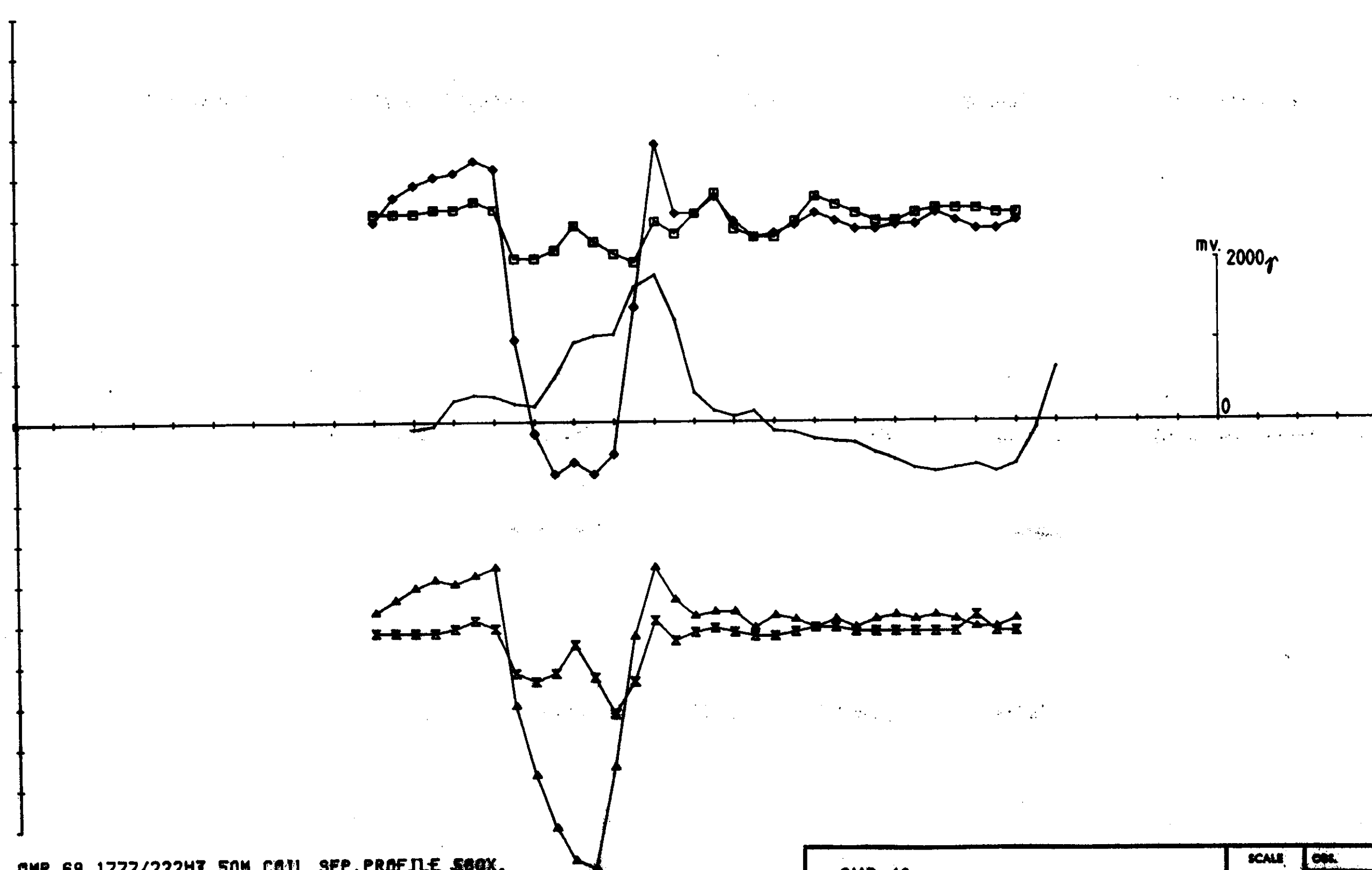
X - SKALERING 50.0
X - OFFSET 980.0
X = 0 - 3400 DELER
Y = +/- 1000 DELER

OMR. 69
EM - MAG
KAUTOKEINO

1/2 SULFIDMALM

SCALE	OBS.	04-84
1:2500	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.
MAP SHEET



OMR, 69 1777/222HZ 50M COIL SEP. PROFILE 500X.

ELEMENT	MARKER	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆	-63.0	10.0	500.0	10.0
IH	■	-11.0	6.0	500.0	10.0
RL	▲	-80.0	14.0	-500.0	10.0
IL	✕	-22.0	2.0	-500.0	10.0

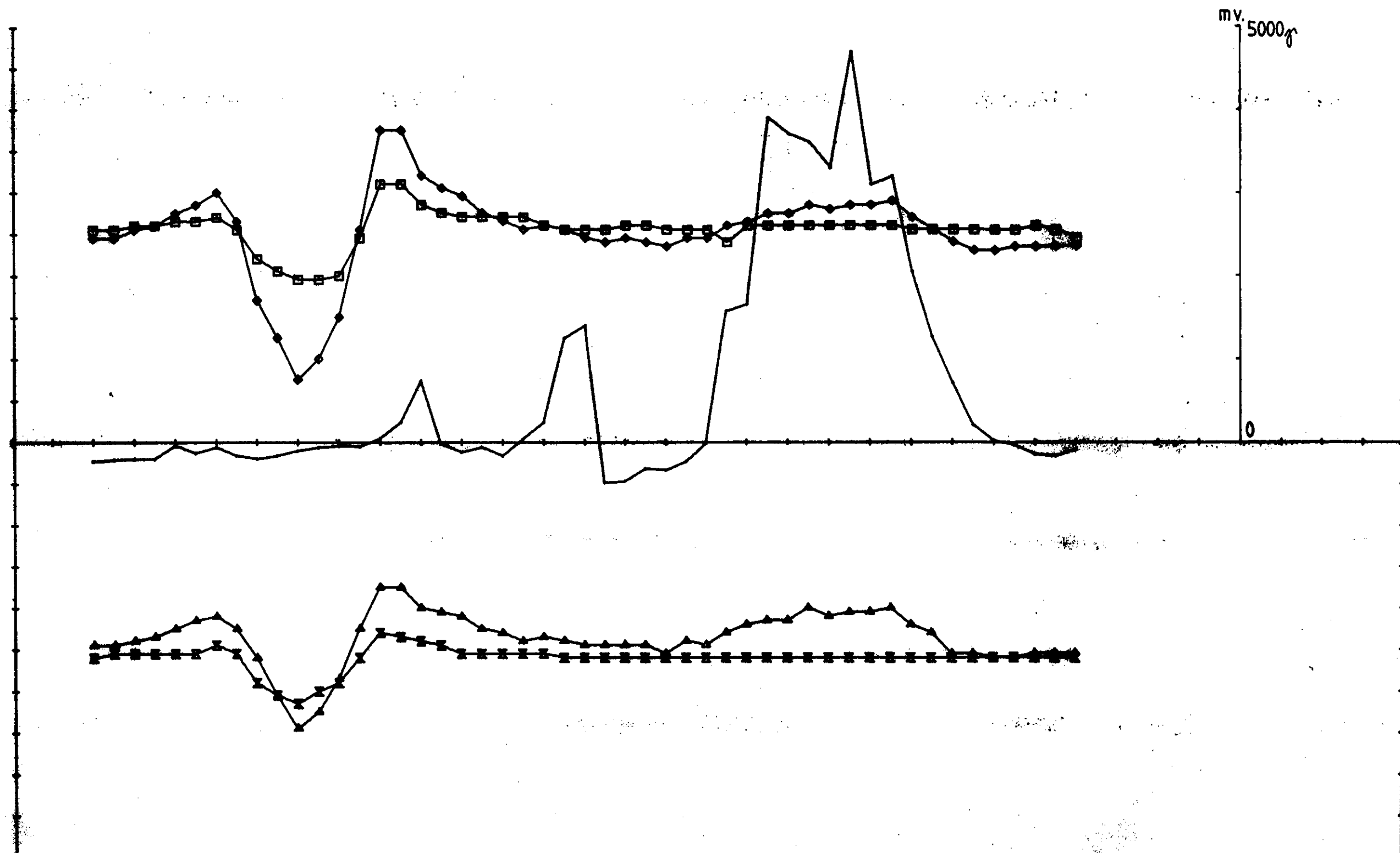
X - SWELERING 50.0
 X - OFFSET 850.0
 X = 0 - 3400 DELER
 Y = +/- 1000 DELER

OMR. 69
 EM - MAG
 KAUTOKEINO

1/2 SULFIDMALM

SCALE	05-84
1:2500	05-84
TRAC.	05-84
CHL.	

MAP NO.	
MAP SHEET	



OMR. 69 1777/222MHZ 50M COIL SEP. PROFILE 520X.

SENSOR	MIN. VERDI	MAX. VERDI	OFFSET	SCALE
IM	-88.0	25.0	500.0	10.0
IH	-11.0	12.0	500.0	10.0
IL	-18.0	18.0	-500.0	10.0
IL	-13.0	4.0	-500.0	10.0

X - SENSITIVITY 50.0
 K - OFFSET 100.0
 X = 0 - 3000 DELTA
 Y = +/- 1000 DELTA

OMR. 69 EM - MAG KAUTOKEINO	SCALE	DATE	04-84
	1:2500	RAW.	05-84
			05-84
1/3 SULFIDMALM		MAP NO.	
		MAP SHEET	