



INTERN RAPPORT.

JAMLE RINGERIKS Vei 14 POSTBOKS 1321 STABEKK
HELEID AV AKTIESELSKABET SYDVARANGER

Telex 72 987 aspro r

DATO: 18.06.84	RAPPORT NR: 1520	KARTBLAD 1832 I 1833 II	Antall sider — H — 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 Digheim Ltd., Report no. 1381 and
HEM anomalies outlined by Digheim 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

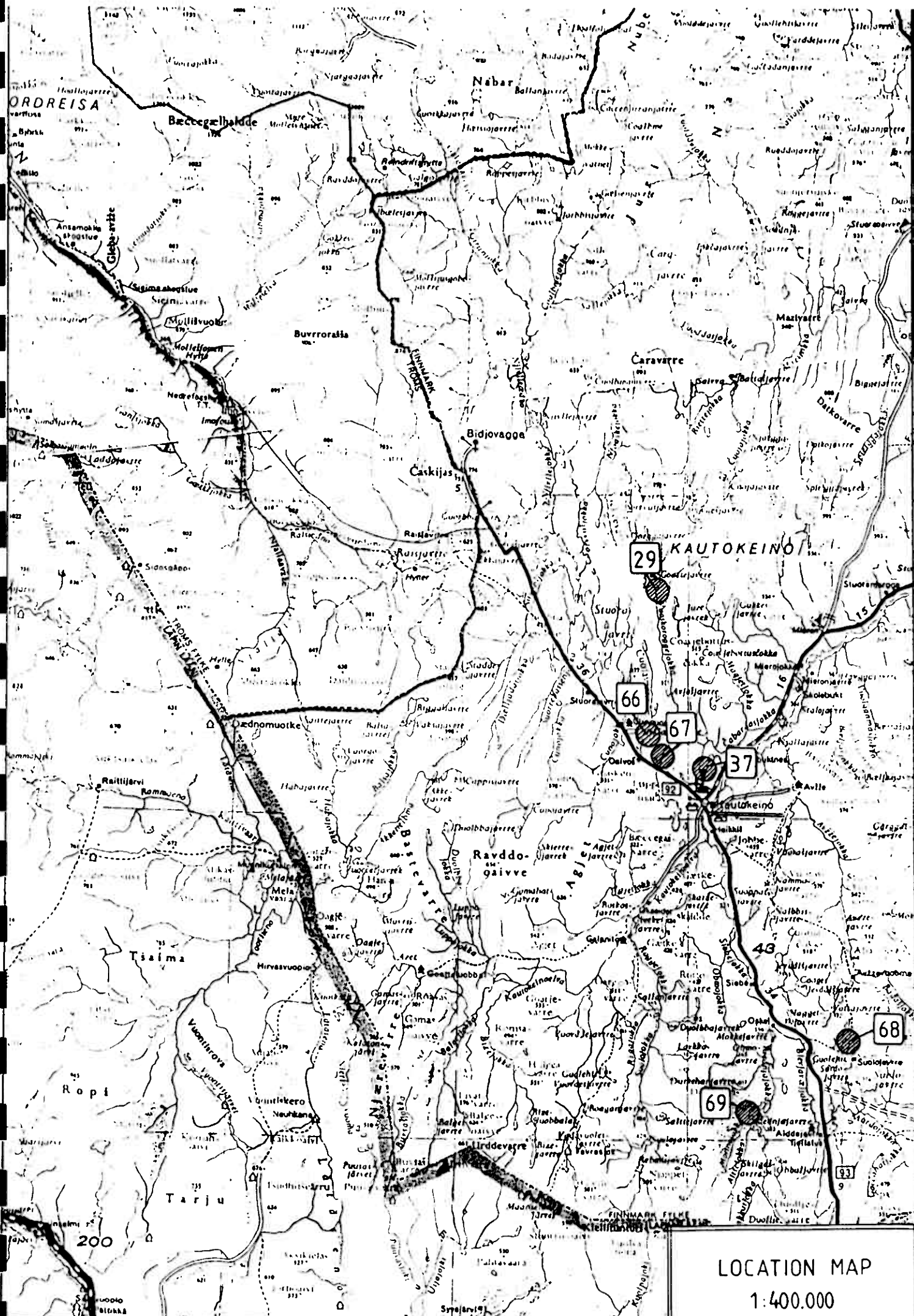
FORDELING
OSLO:

KIRKENES:

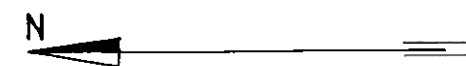
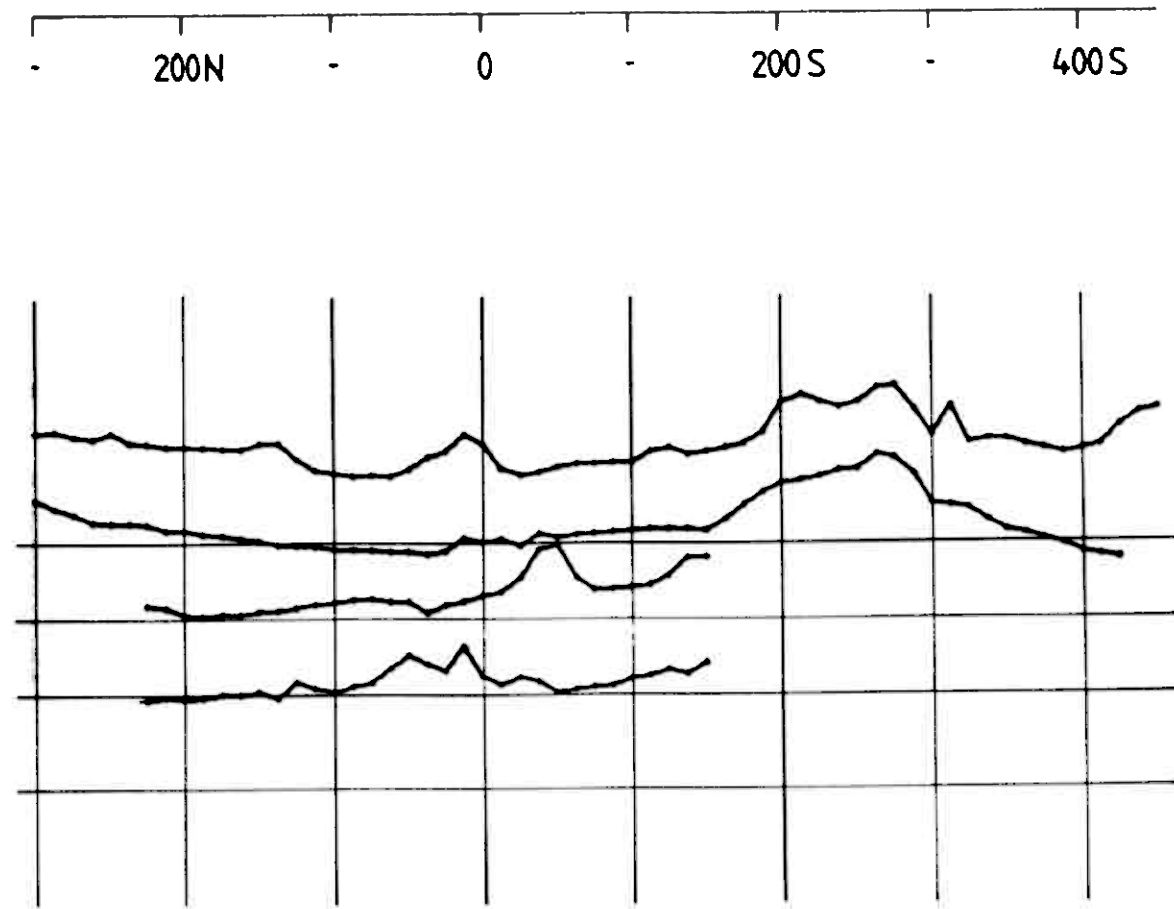
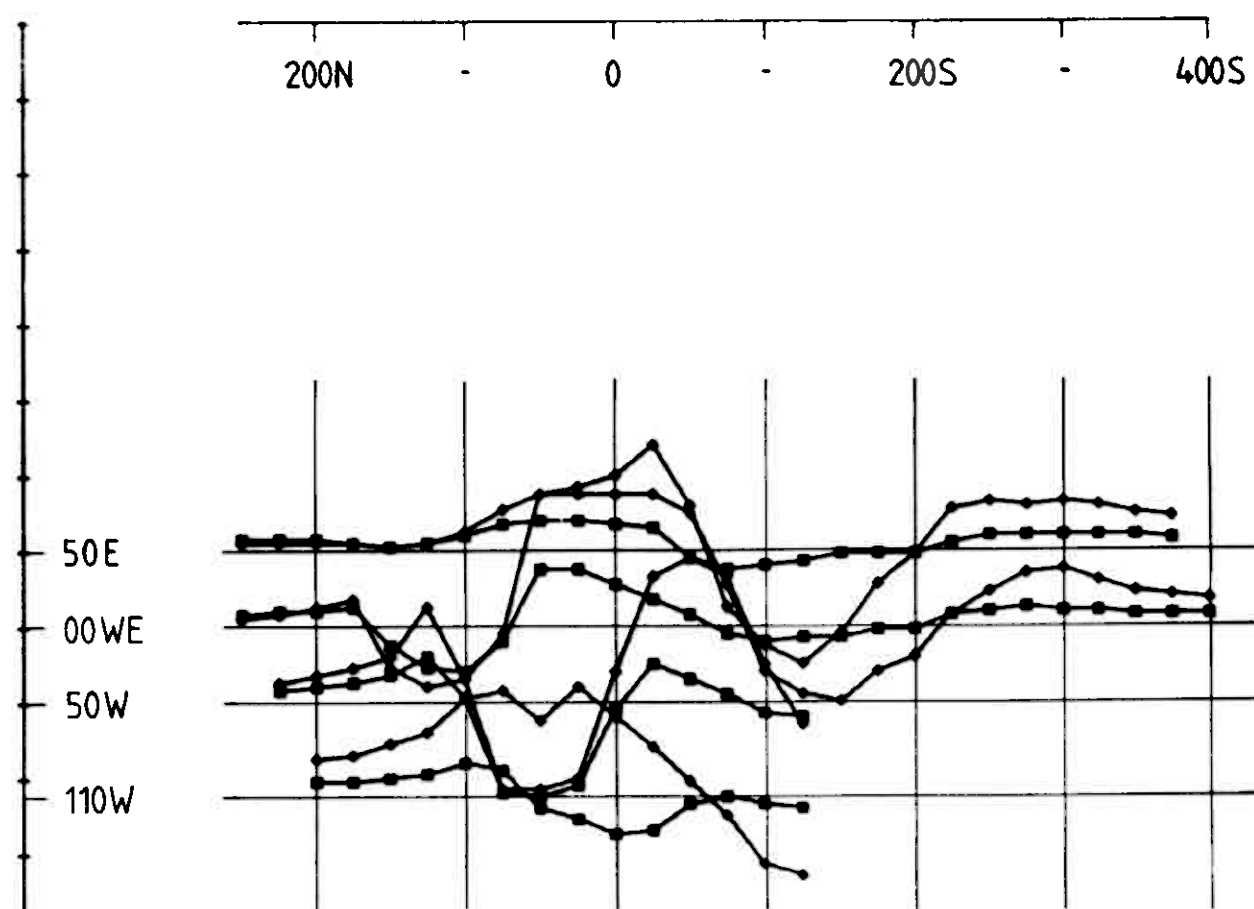
ANDRE:

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 $\diamond$
 IH $\square$

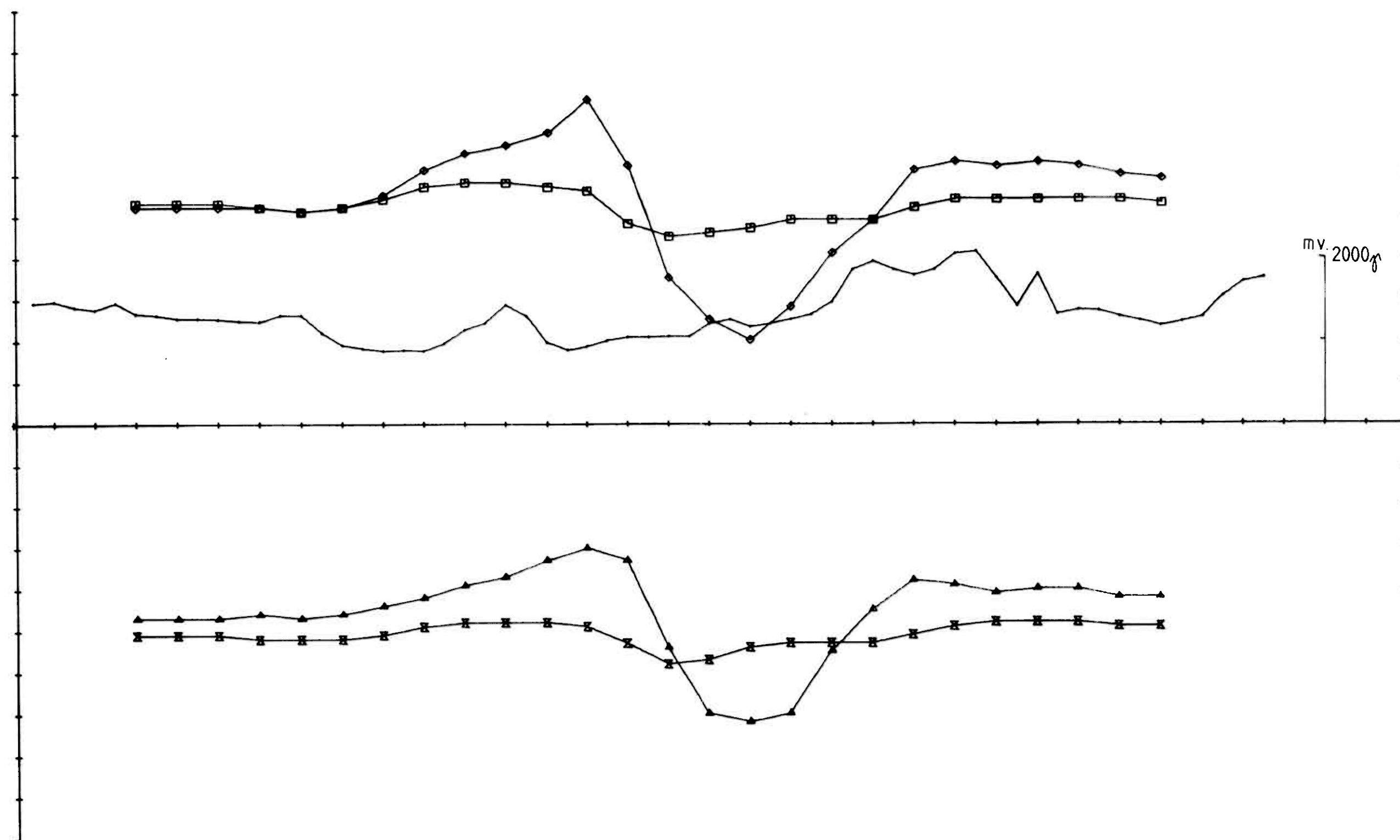
OMR. 37
 EM - MAG
 KAUTOKEINO

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

$\frac{1}{2}$ SULFIDMALM

MAP NO.

MAP SHEET



OMR, 37 1777/222HZ 100M COIL SEP, PROFILE 37050ES1.

ELEMENT	MARKOR	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-30.0	20.0	500.0	10.0
IH	□—□	-5.0	0.0	500.0	10.0
RL	▲—▲	-22.0	20.0	-500.0	10.0
IL	×—×	-0.0	2.0	-500.0	10.0

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

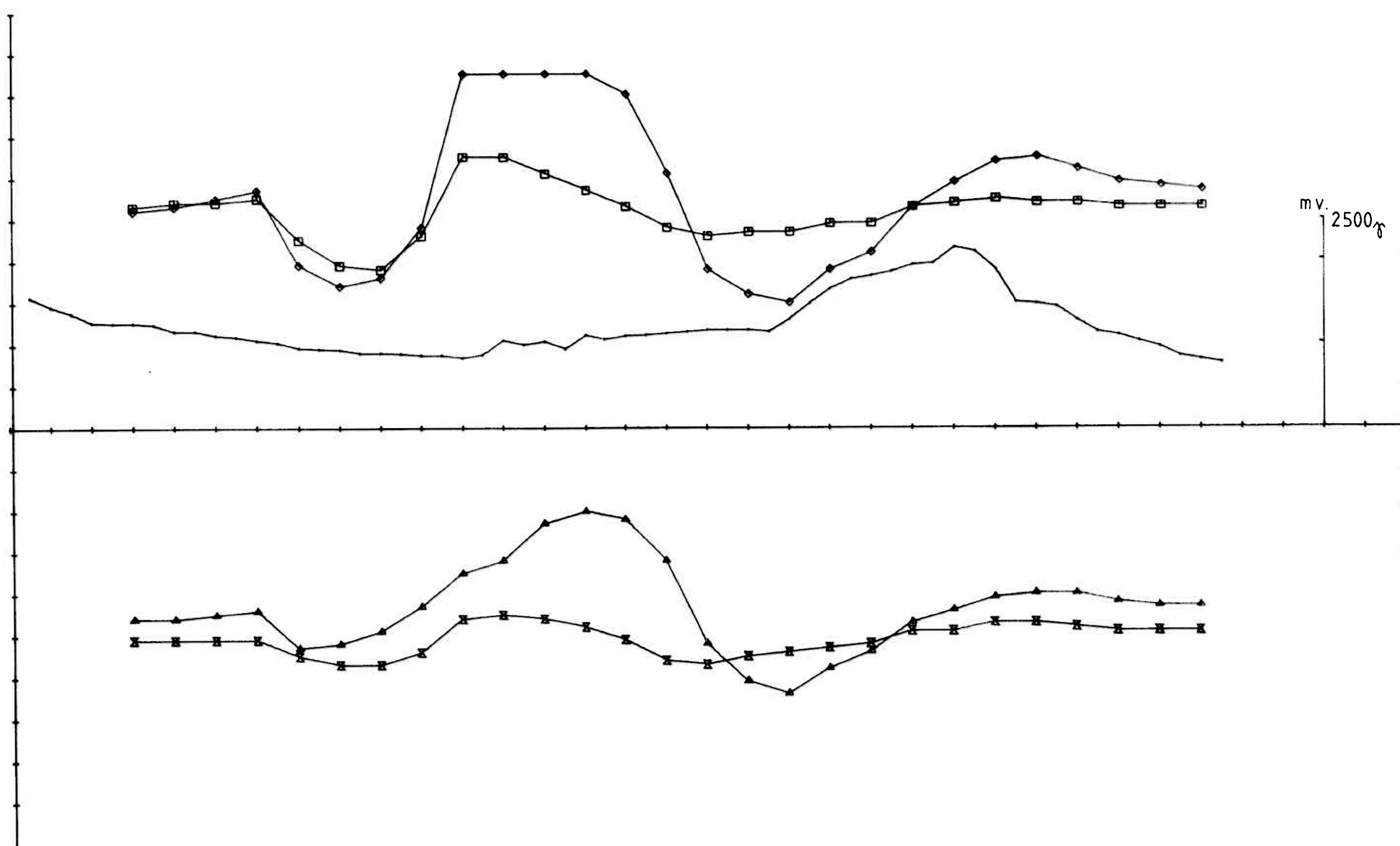
OMR. 37
EM - MAG
KAUTOKEINO

1/2 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

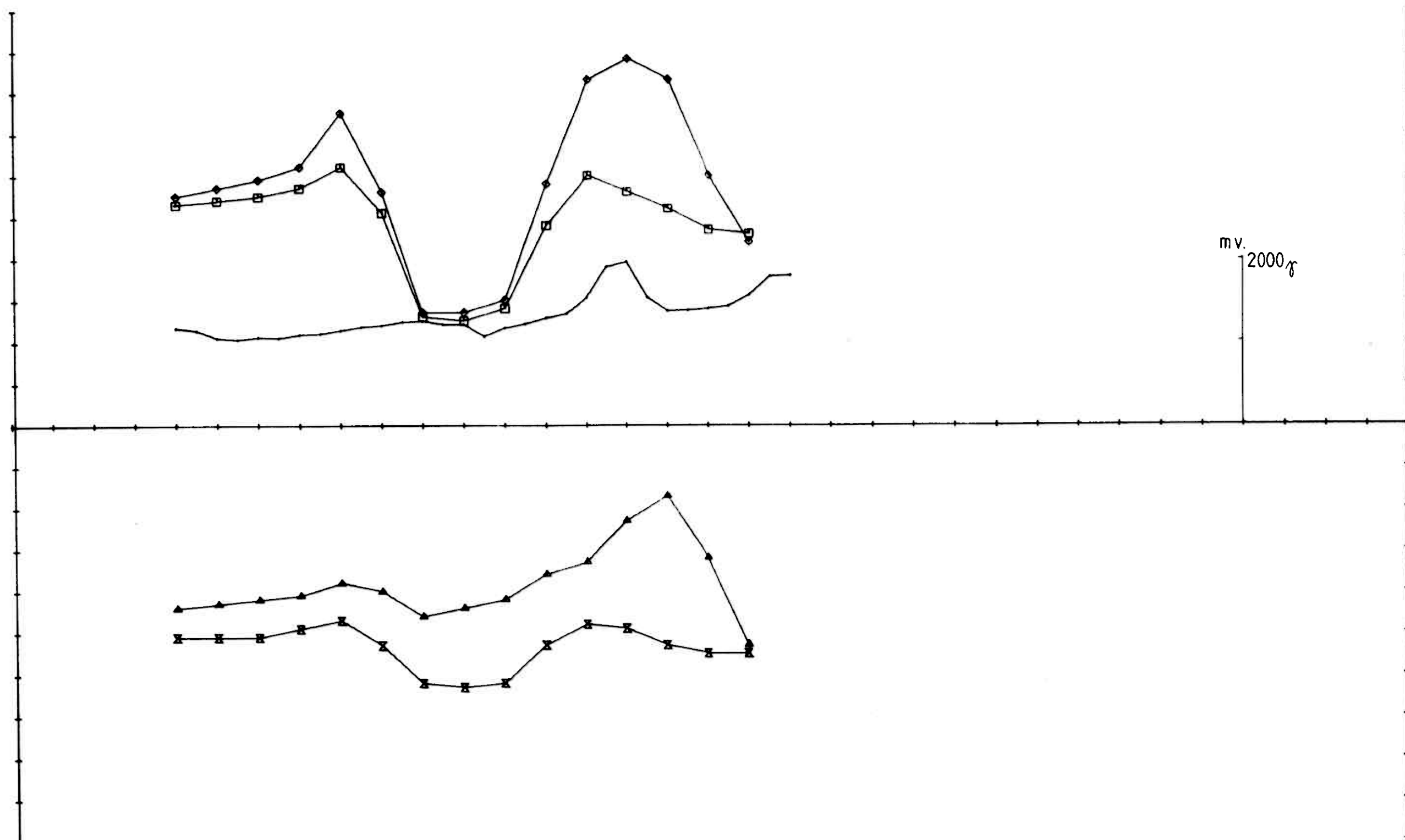
OMR. 37
 EM - MAG
 KAUTOKEINO

$\frac{1}{8}$ 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	MARKOR	MIN. VERD	MAX. VERD	OFFSET	SKALA
RH	◆—◆	-23.0	38.0	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

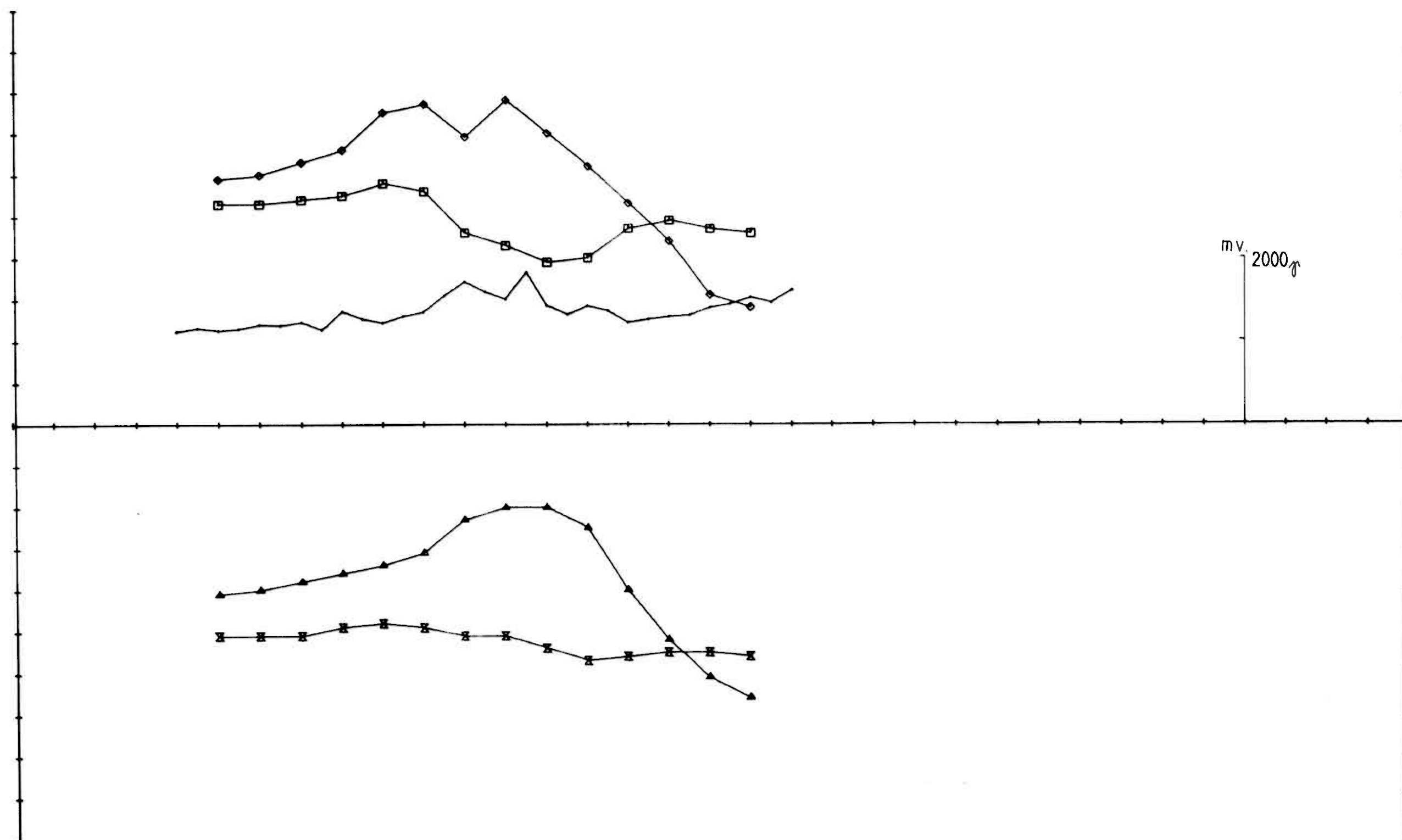
OMR. 37
 EM - MAG
 KAUTOKEINO

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 37110WS1 .

ELEMENT	MARKOR	MIN. VERD	MAX. VERD	OFFSET	SKALA	
RH	◆—◆	-22.0	28.0	-500.0	10.0	X - SKALERING 100.0
IH	□—□	-11.0	8.0	-500.0	10.0	X - OFFSET 400.0
RL	▲—▲	-18.0	30.0	-500.0	10.0	X = 0 - 3400 DELER
IL	×—×	-7.0	2.0	-500.0	10.0	Y = +/- 1000 DELER

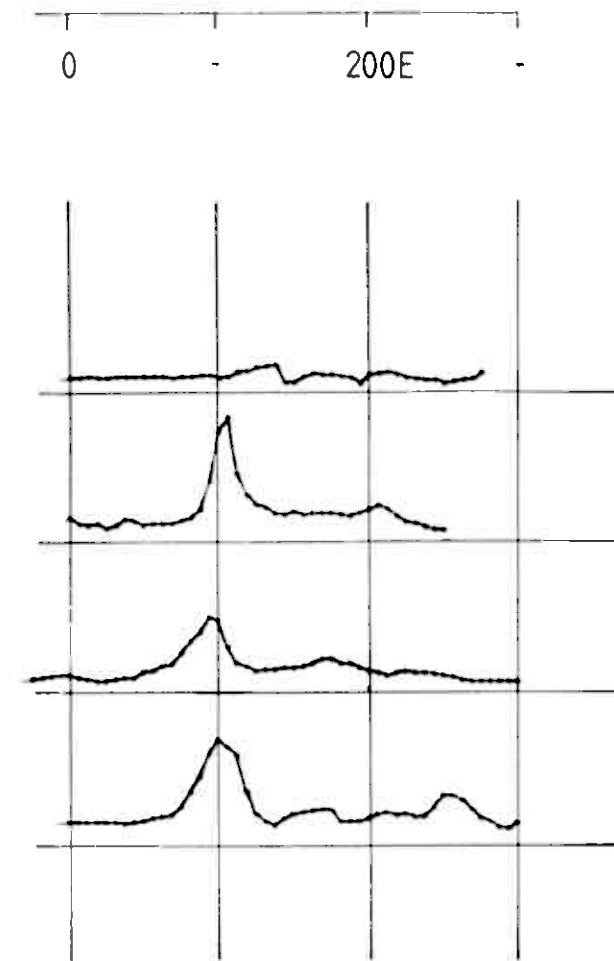
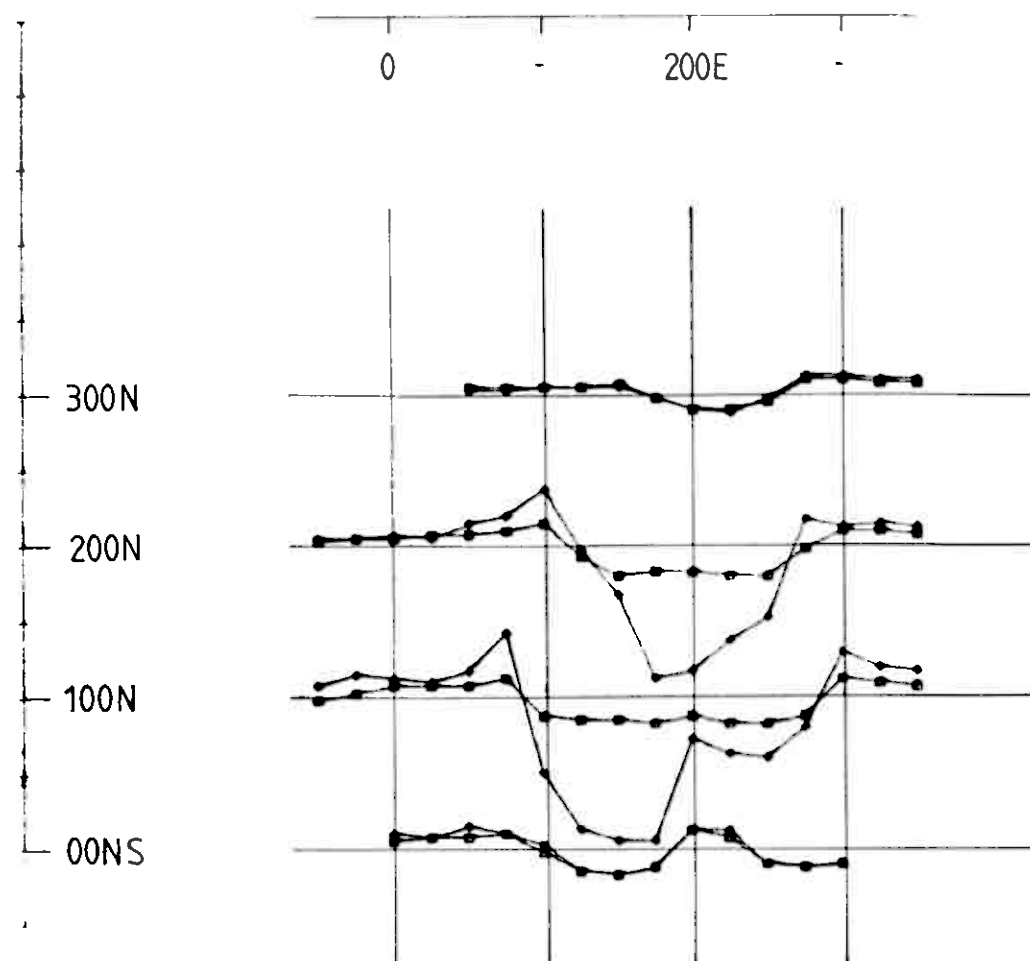
OMR. 37
EM - MAG
KAUTOKEINO

$\frac{1}{2}$ SULFIDMALM

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

MAP NO.

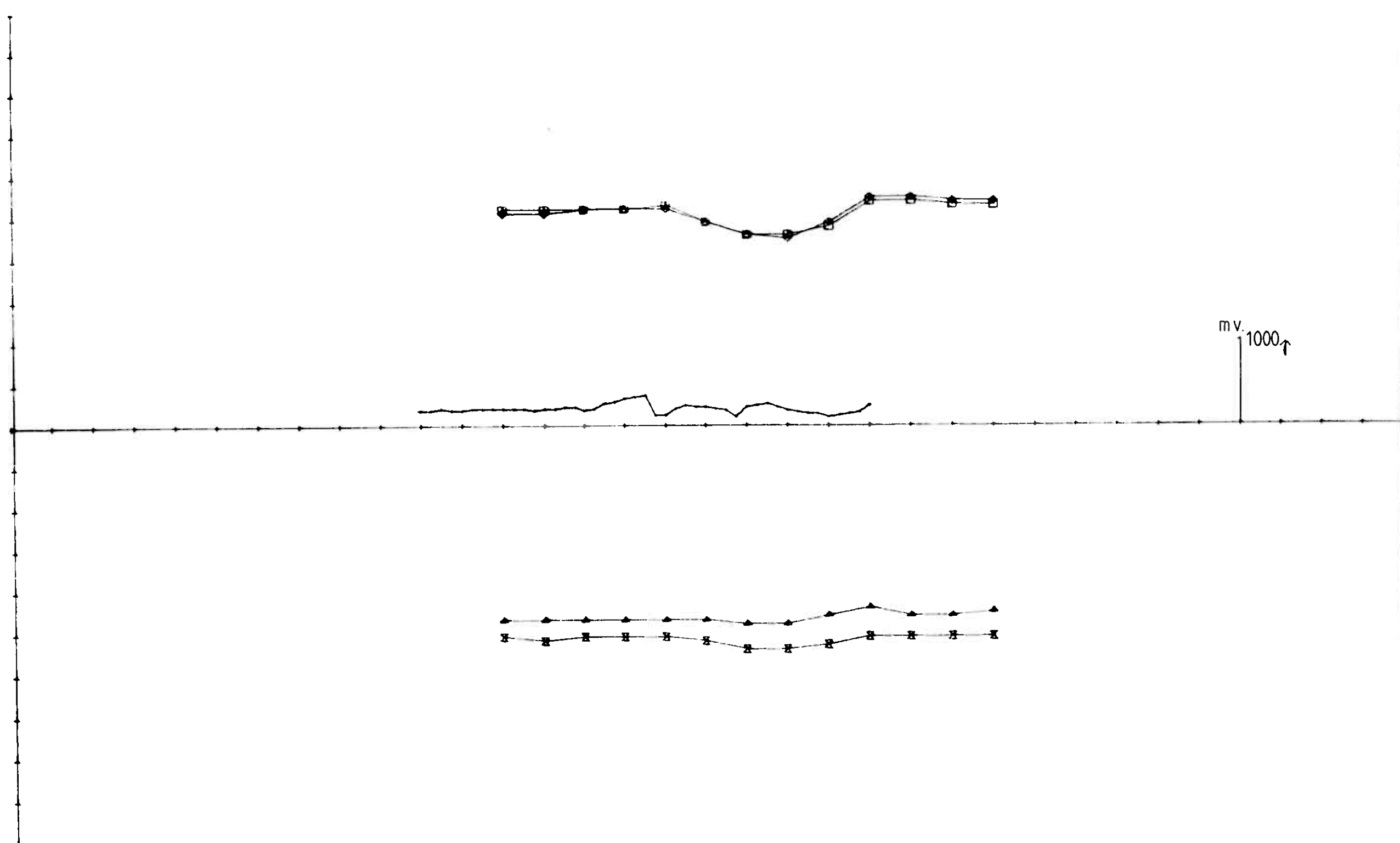
MAP SHEET



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



OMR. 66 EM - MAG KAUTOKEINO	SCALE	OBS.	04-84
	1:5000	DRAW.	05-84
		TRAC.	05-84
		CHK.	
1/5 SULFIDMALM	MAP NO.		
	MAP SHEET		



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

ELEMENT	MARKØR	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

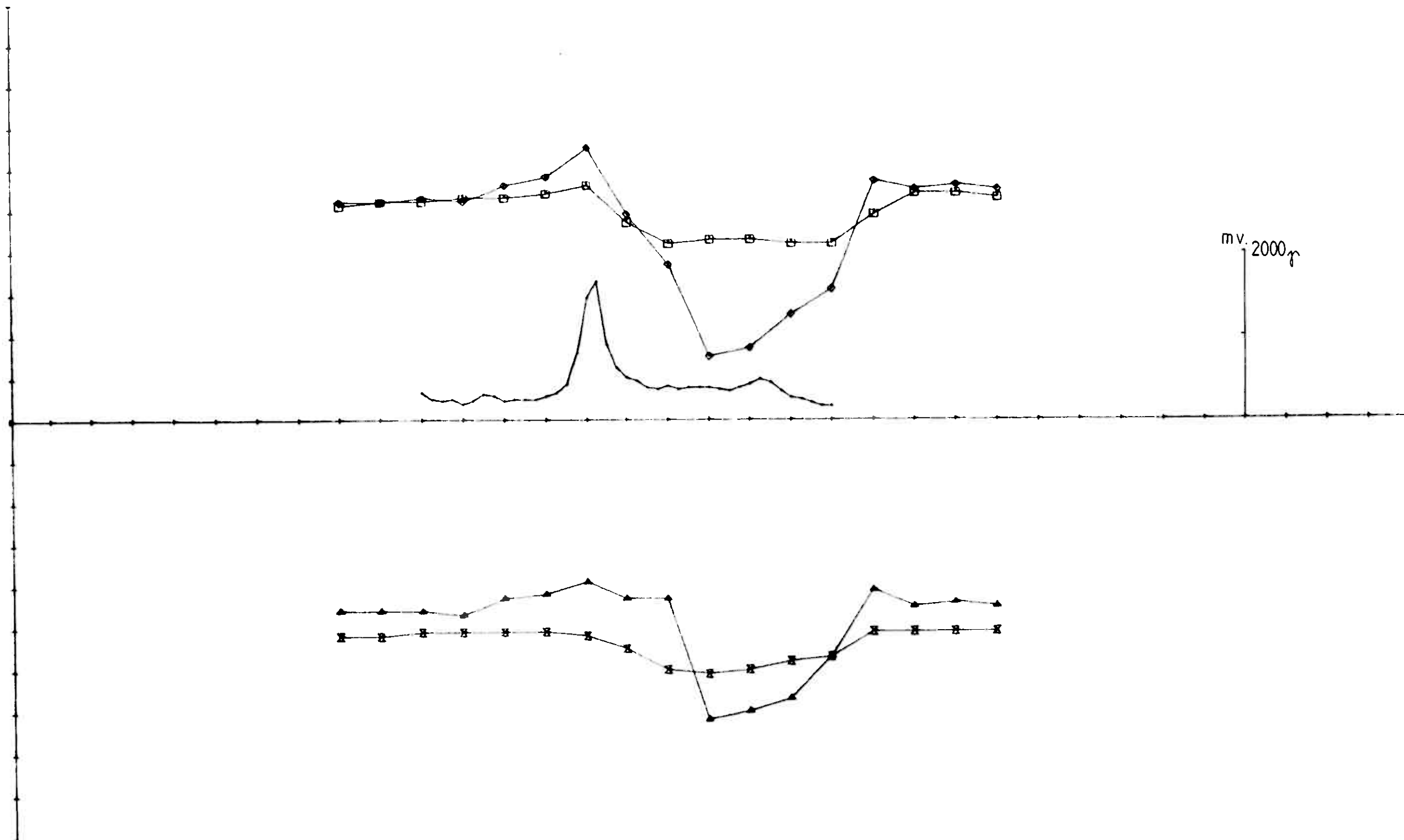
OMR. 66
 EM - MAG
 KAUTOKEINO

$\frac{1}{8}$ SULFIDMALM

SCALE 1:2500	OBS.	04-84
	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	□—□	-8.0	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

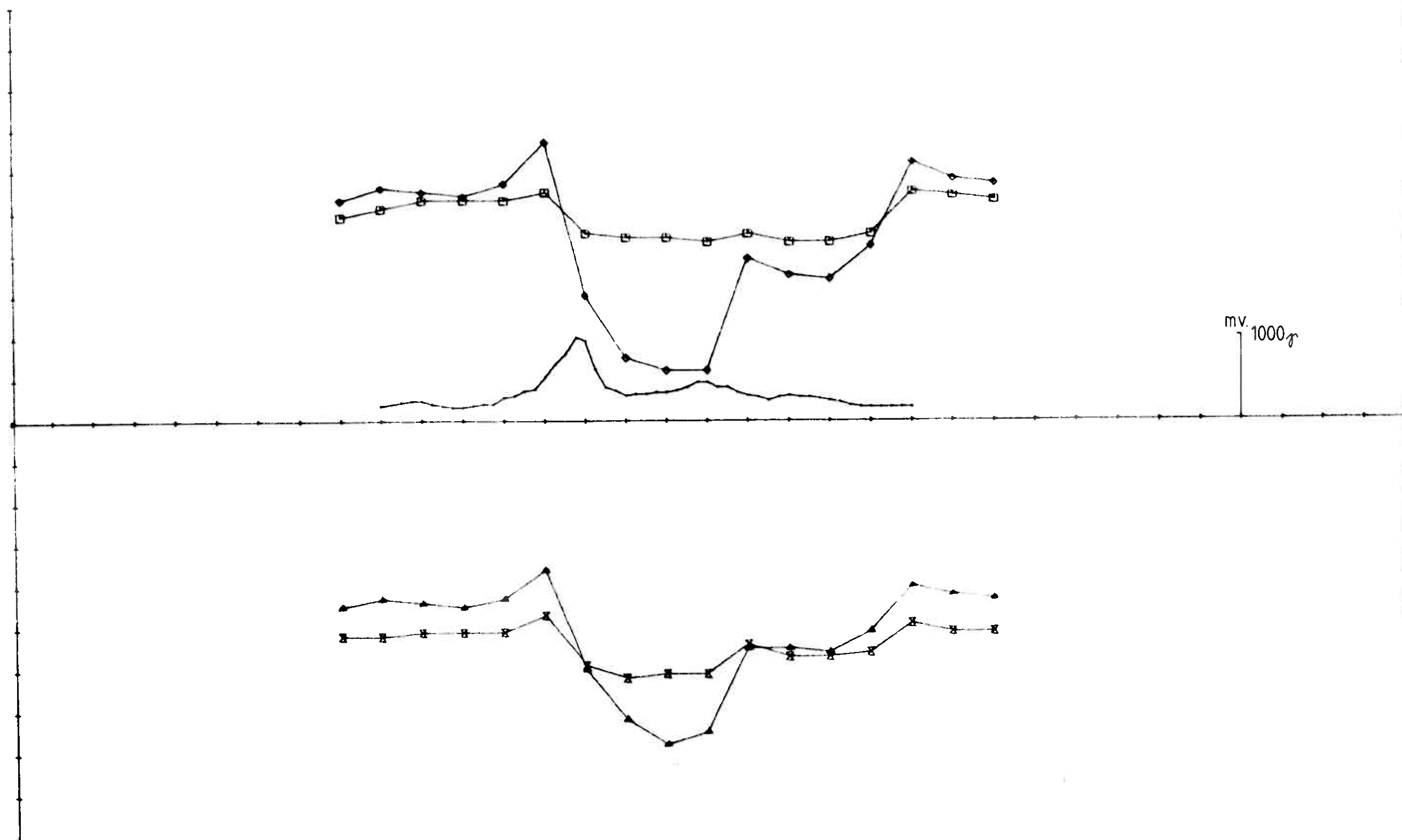
KAUTOKEINO

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

SCALE	OBS.	04-84
1:2500	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	◆—◆	-30.0	12.0	500.0	10.0
IH	□—□	-7.0	5.0	500.0	10.0
RL	▲—▲	-20.0	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

$\frac{A}{S}$ SULFIDMALM

SCALE

1:2500

OBS.

DRAW.

TRAC.

CHK.

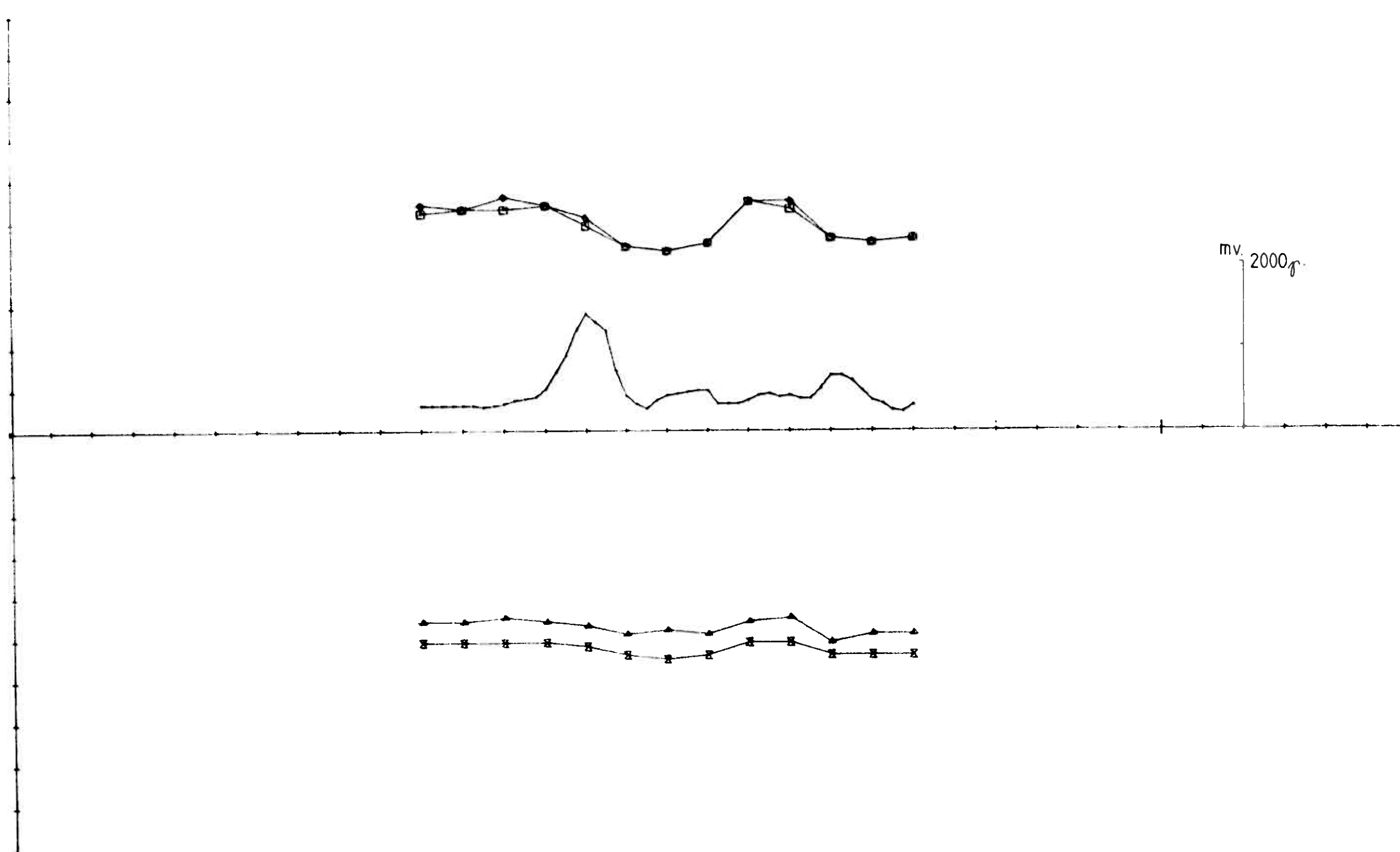
04-84

05-84

05-84

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

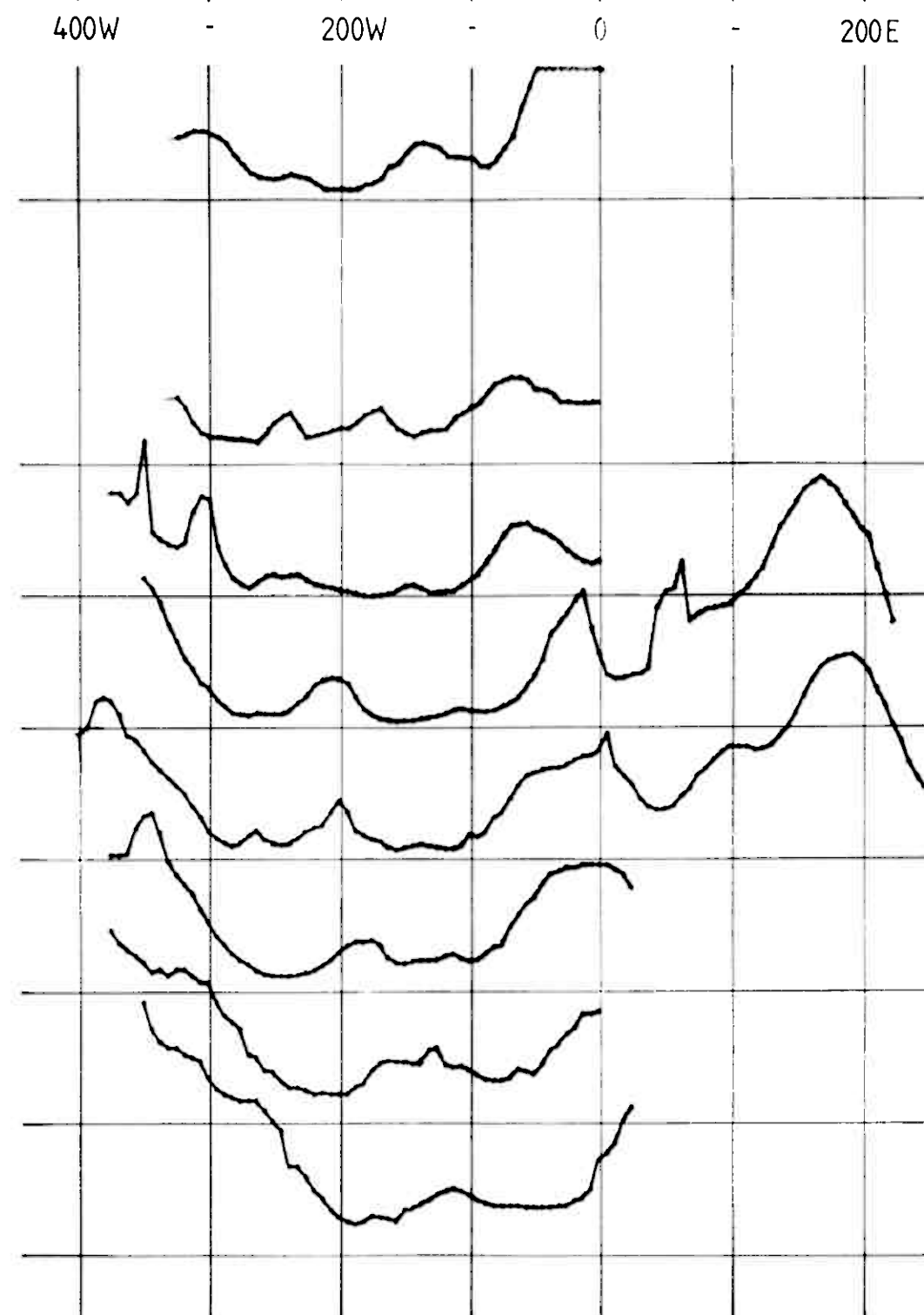
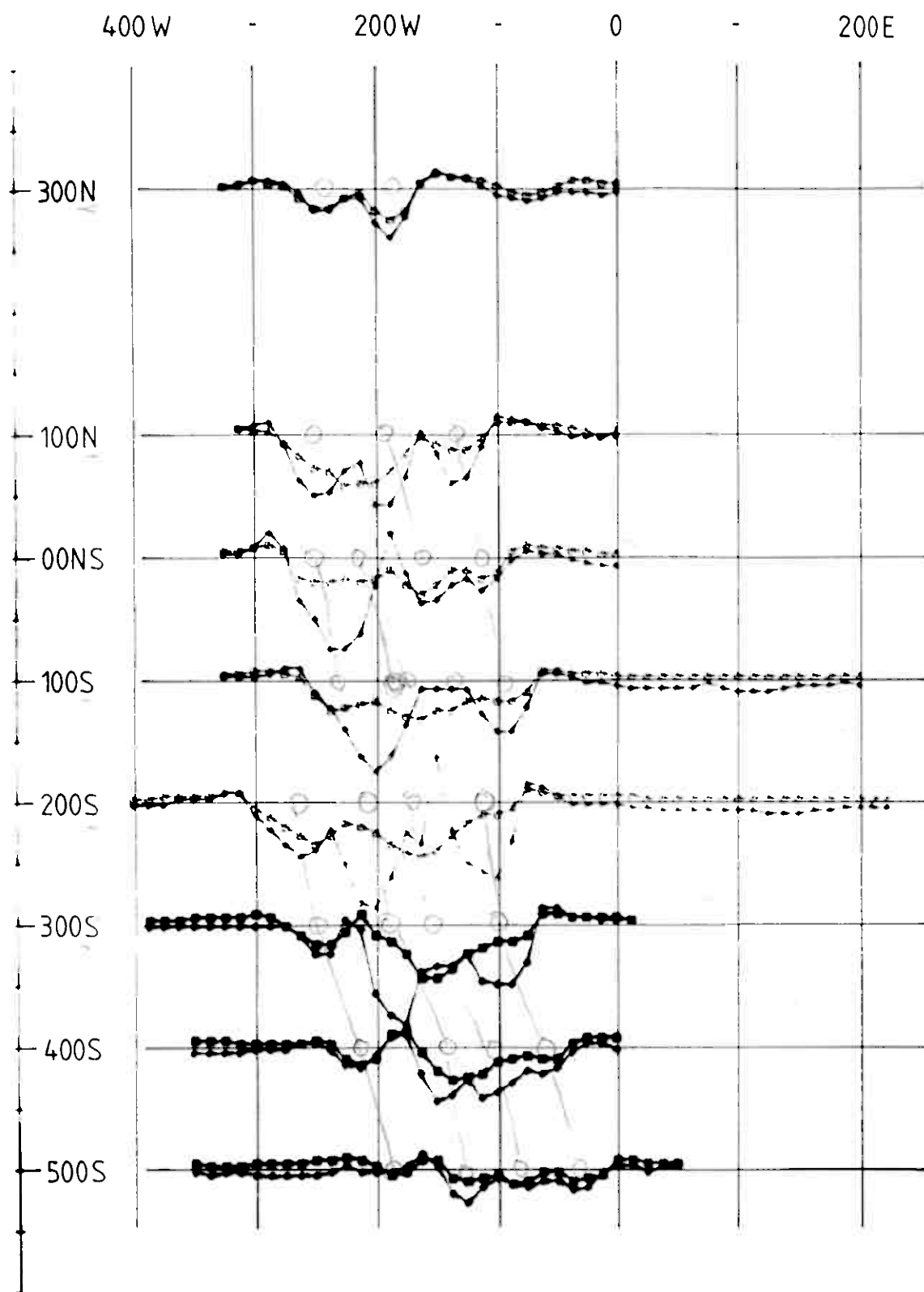
KAUTOKEINO

$\frac{A}{S}$ SULFIDMALM

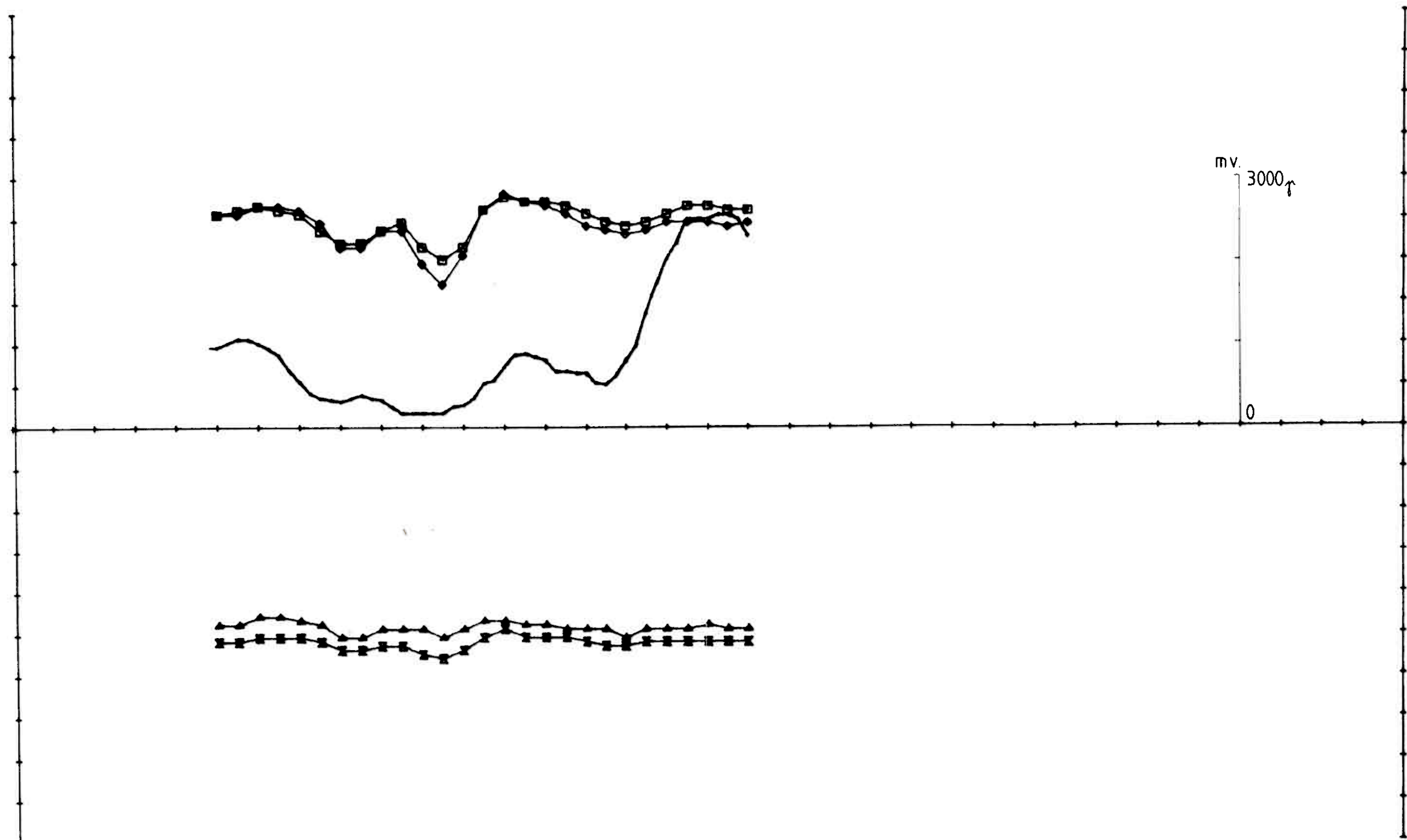
SCALE	OBS.	04-84
1:2500	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET



OMR. 68 EM - MAG KAUTOKEINO	SCALE	OBS.	04-84
	1:5000	DRAW.	05-84
		TRAC.	05-84
		CHK.	
$\frac{1}{5}$ SULFIDMALM	MAP NO.		
	MAP SHEET		



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

ELEMENT	MARKER	MIN. VERDI	MAX. VERDI	OFFSET	SCALE
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 - SENSITIVITY 50.0
 X - OFFSET 400.0
 X = 0 - 3400 DELTA
 Y = +/- 1000 DELTA

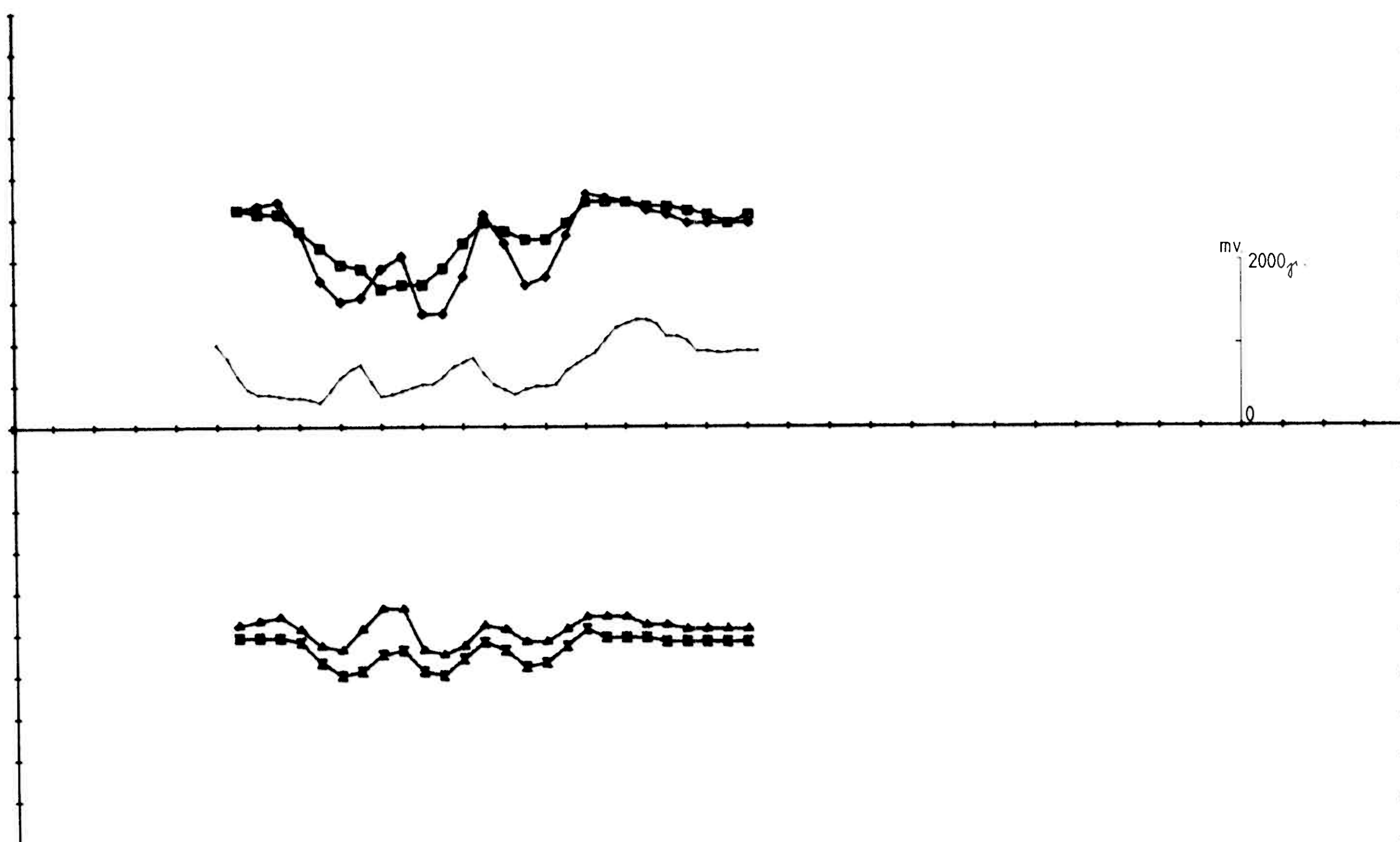
OMR. 68
 EM - MAG
 KAUTOKEINO

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 100M.

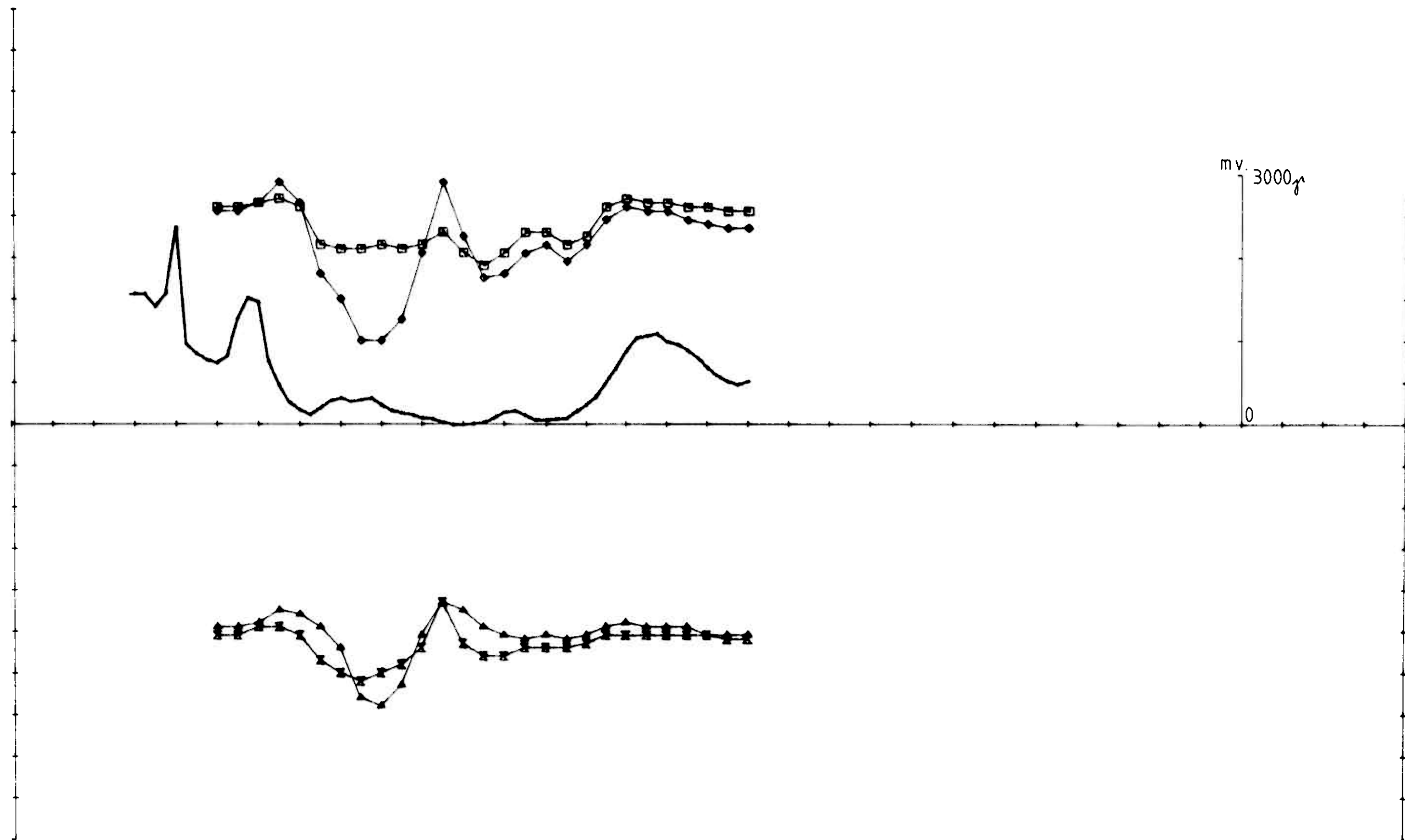
ELEMENT	MARKER	NPH. VERT	MAG. VERT	OFFSET	SCALE
RH	◆—◆	-25.0	0.0	500.0	10.0
IH	■—■	-17.0	4.0	500.0	10.0
RL	▲—▲	-5.0	0.0	-500.0	10.0
IL	■—■	-10.0	1.0	-500.0	10.0

X - SAMPLE TIME 50.0
 X - OFFSET 500.0
 K = 5 - 1400 SCLER
 T = +/- 1000 SCLER

OMR. 68
 EM - MAG
 KAUTOKEINO

$\frac{A}{S}$ 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	SKALA
RH	◆—◆	-10.0	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	■—■	-12.0	7.0	-500.0	10.0

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

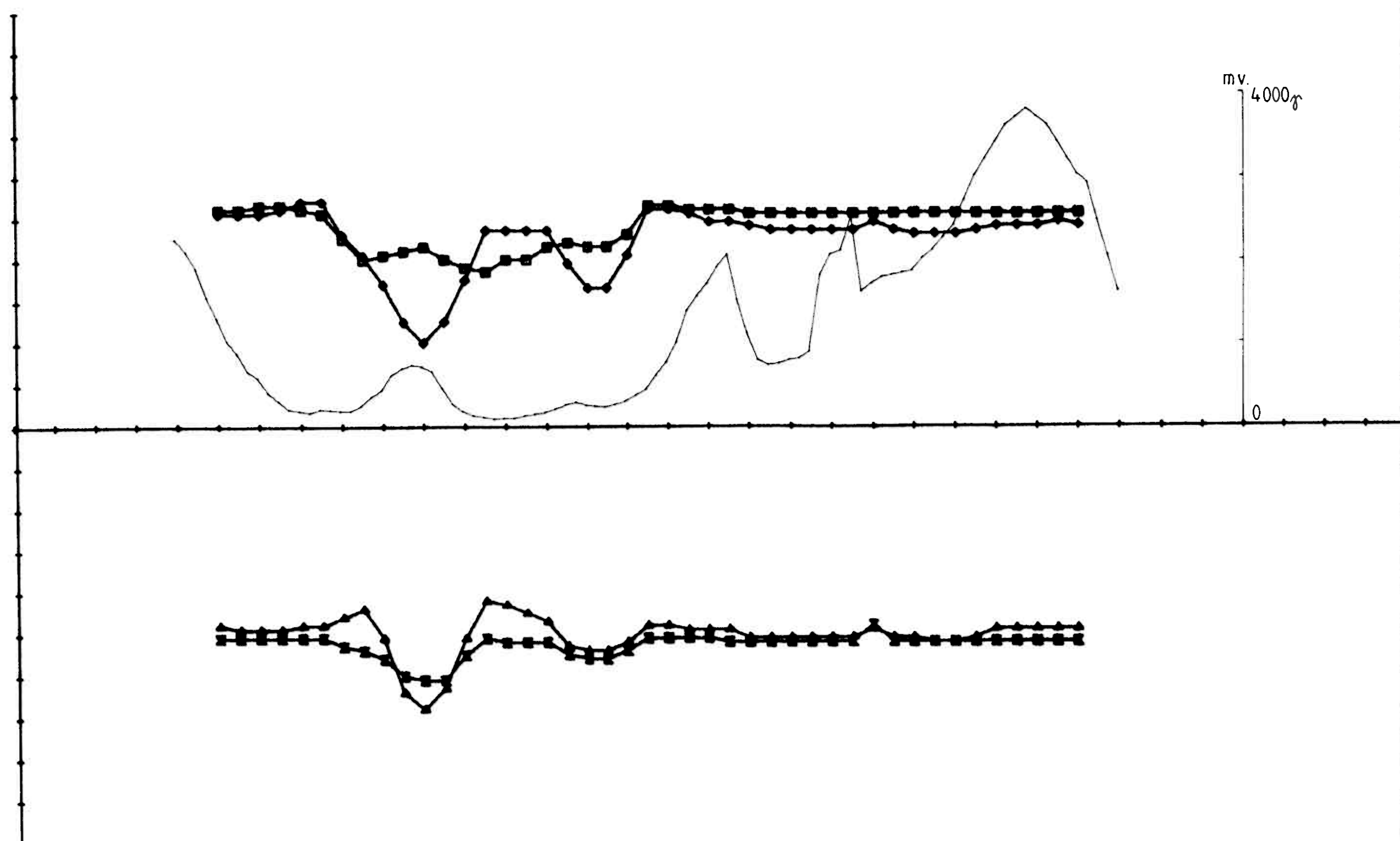
OMR.68
 EM - MAG
 KAUTOKEINO

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

$\frac{A}{S}$ SULFIDMALM

MAP NO.

MAP SHEET

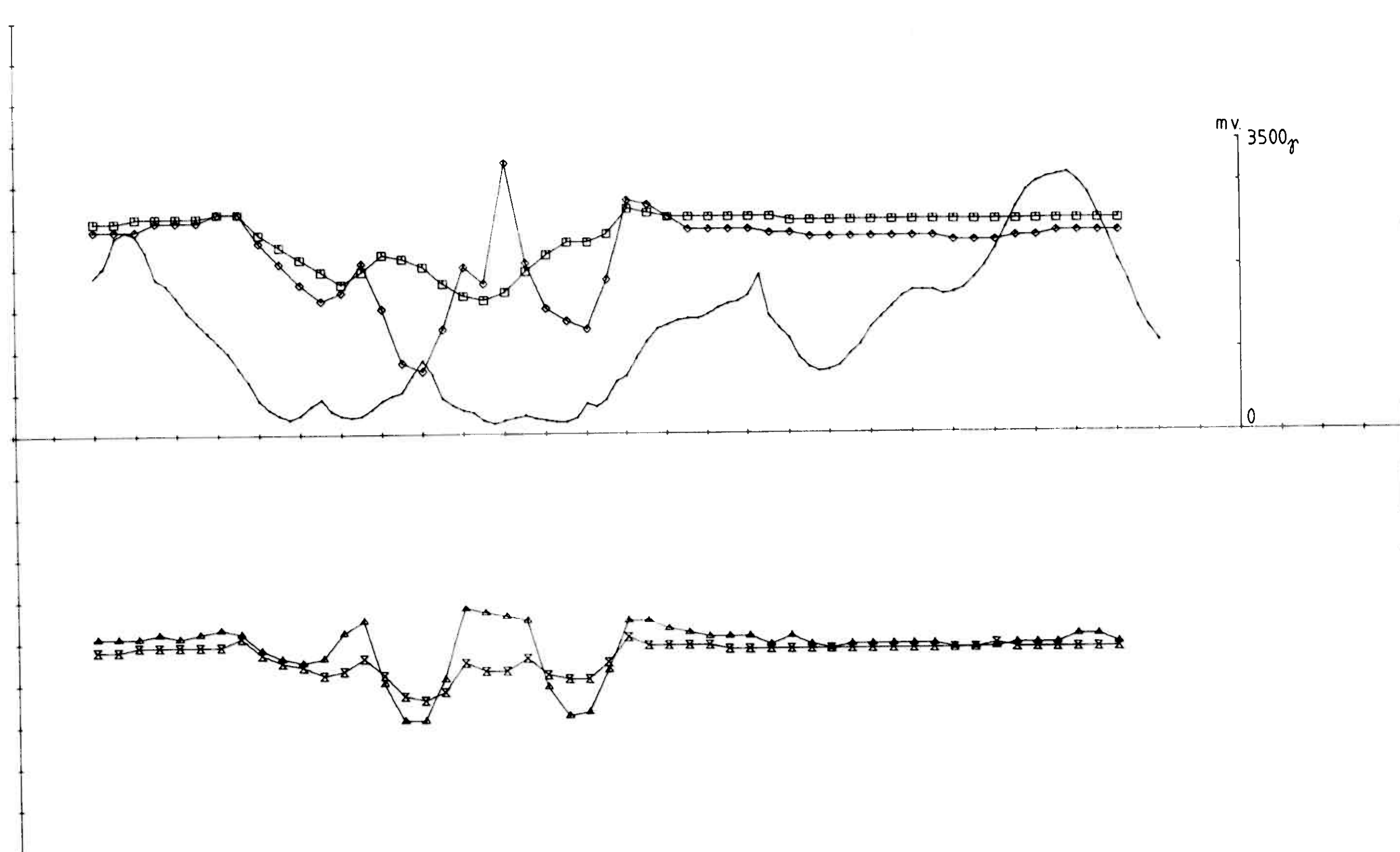


OMR.68 1777/222HE 50M COIL SET, 100S.

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	▲—▲	-16.0	6.0	-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	SCALE	OBS.	04-84
	1:2500	DRAW.	05-84
		TRAC.	05-84
		CHK.	
1/8 SULFIDMALM	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

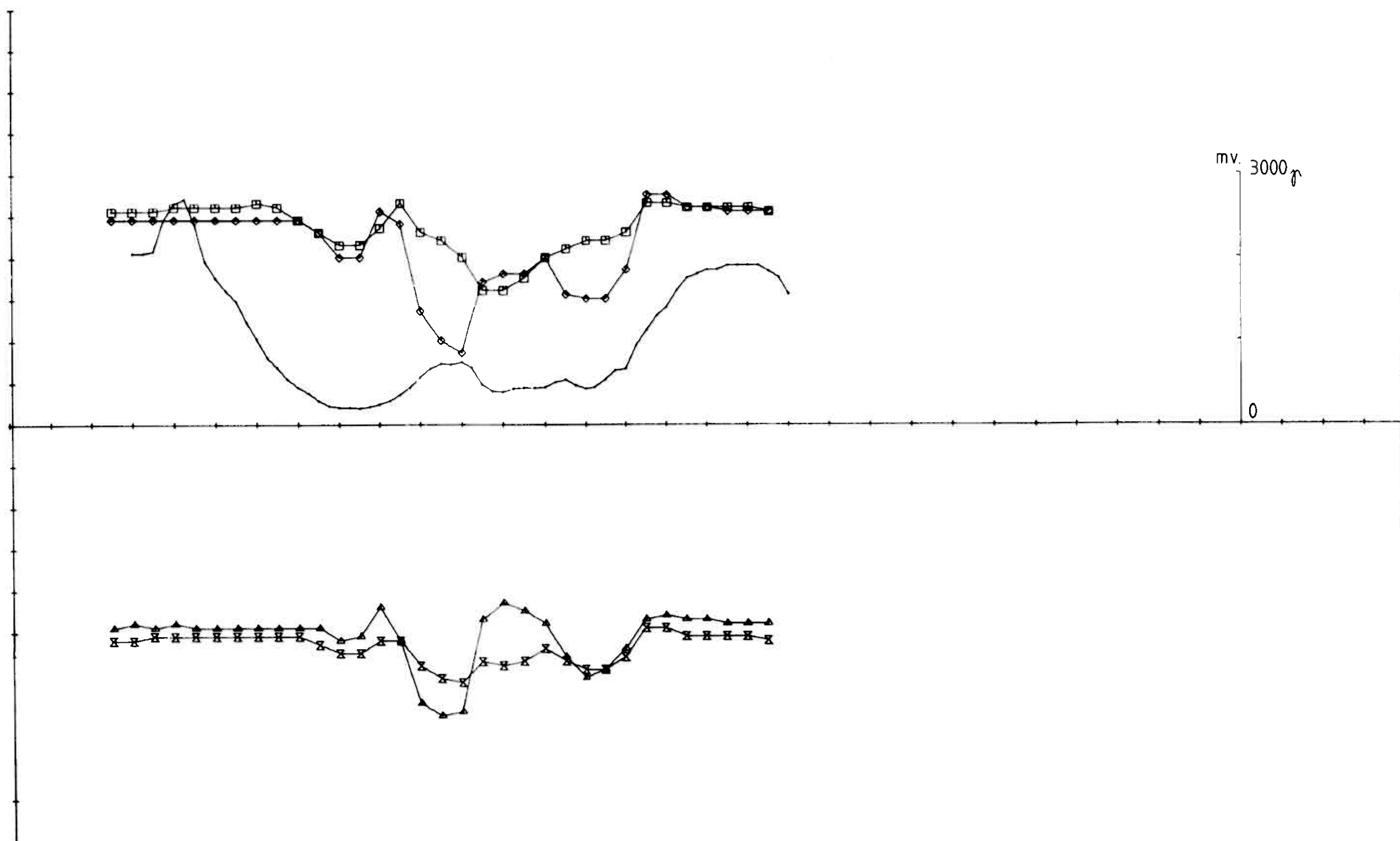
OMR. 68
 EM - MAG
 KAUTOKEINO

$\frac{A}{S}$ 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 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

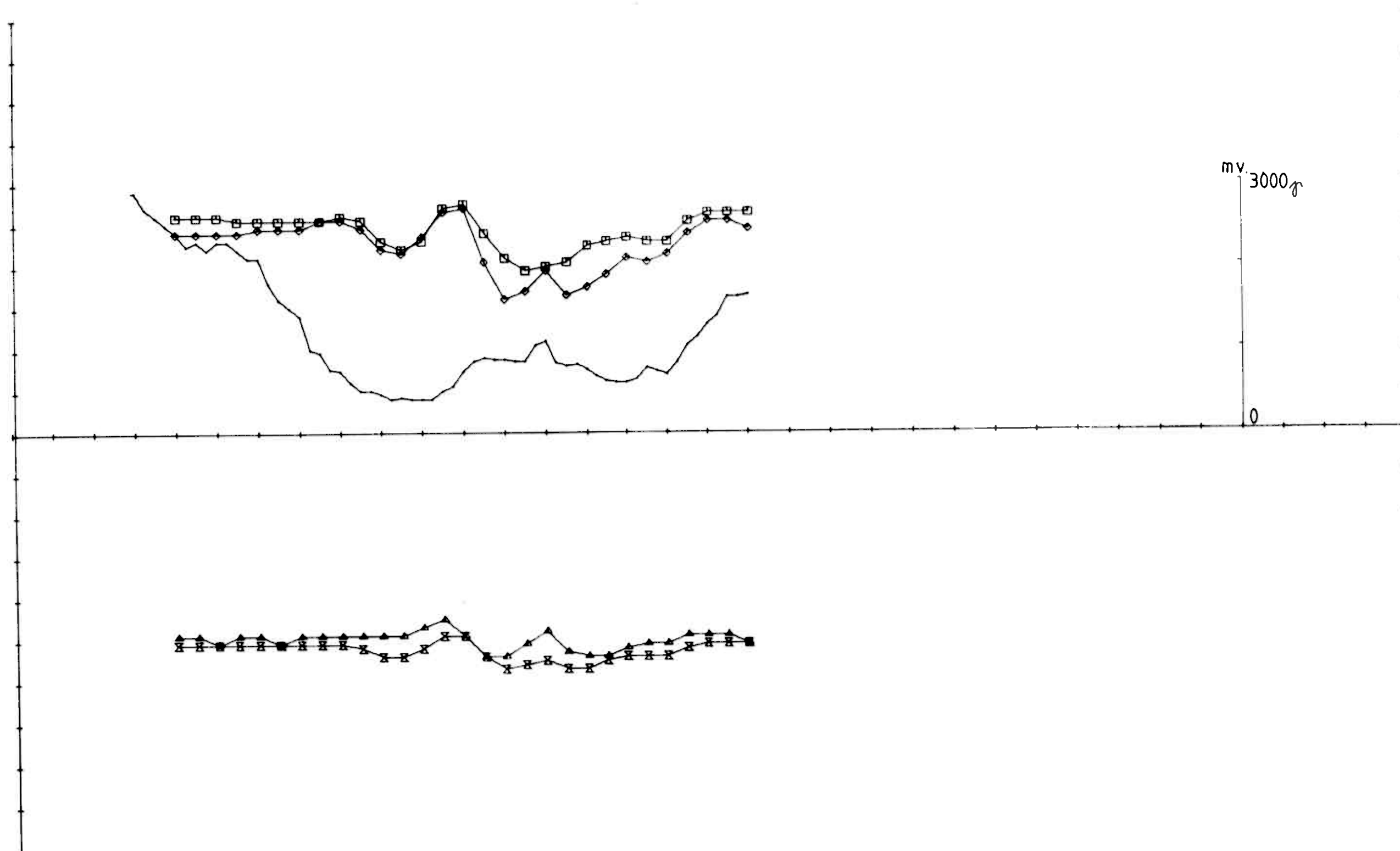
OMR. 68
 EM - MAG
 KAUTOKEINO

$\frac{1}{2}$ 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	MARKOR	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-18.0	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

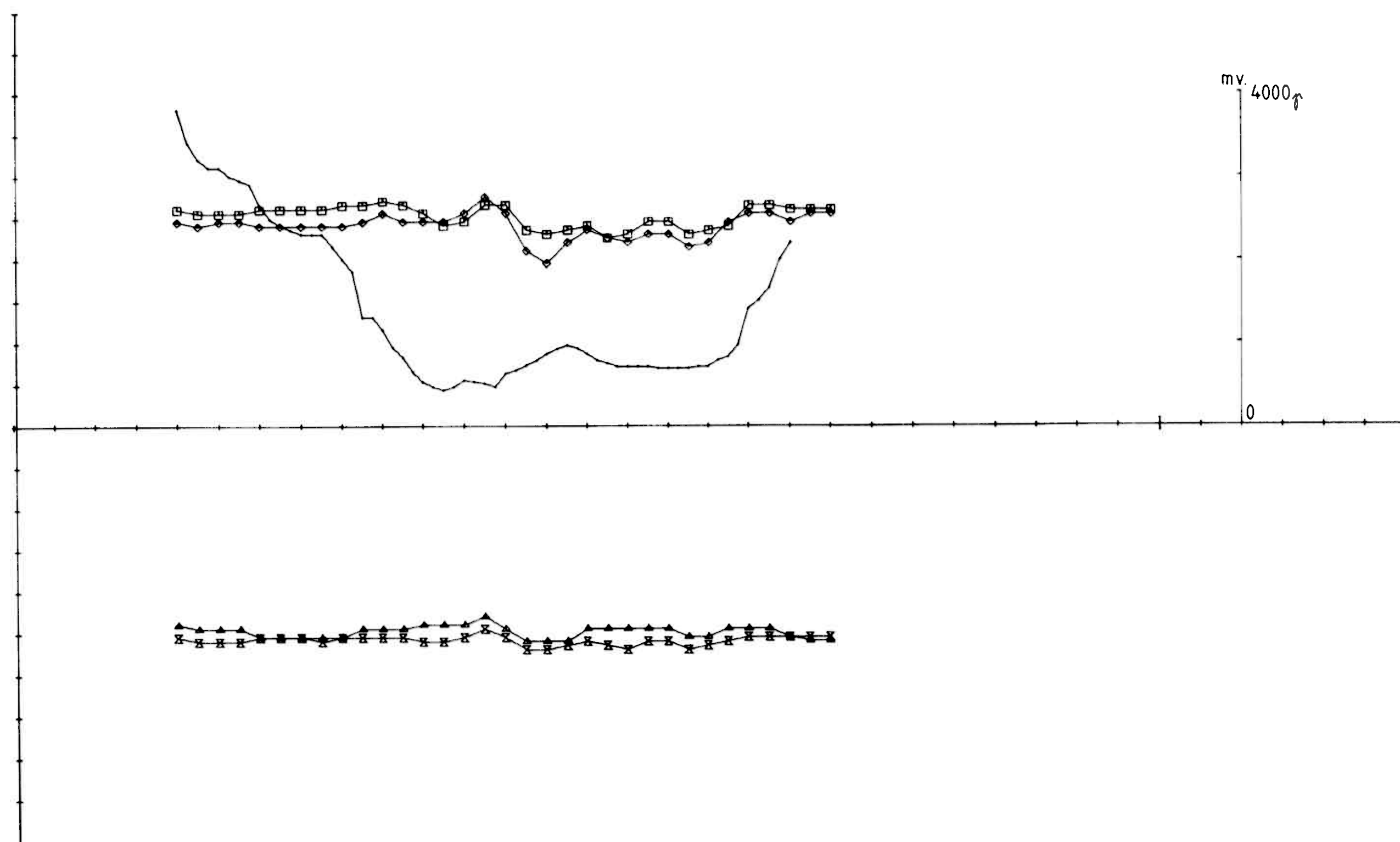
OMR. 68
 EM - MAG
 KAUTOKEINO

$\frac{1}{8}$ 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 50DS.

ELEMENT	MARKØR	MIN.VERDI	MAX.VERDI	OFFSET	SKALA
RH	◆—◆	-11.0	5.0	500.0	10.0
IH	□—□	-5.0	4.0	500.0	10.0
RL	▲—▲	-2.0	4.0	-500.0	10.0
IL	×—×	-4.0	1.0	-500.0	10.0

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

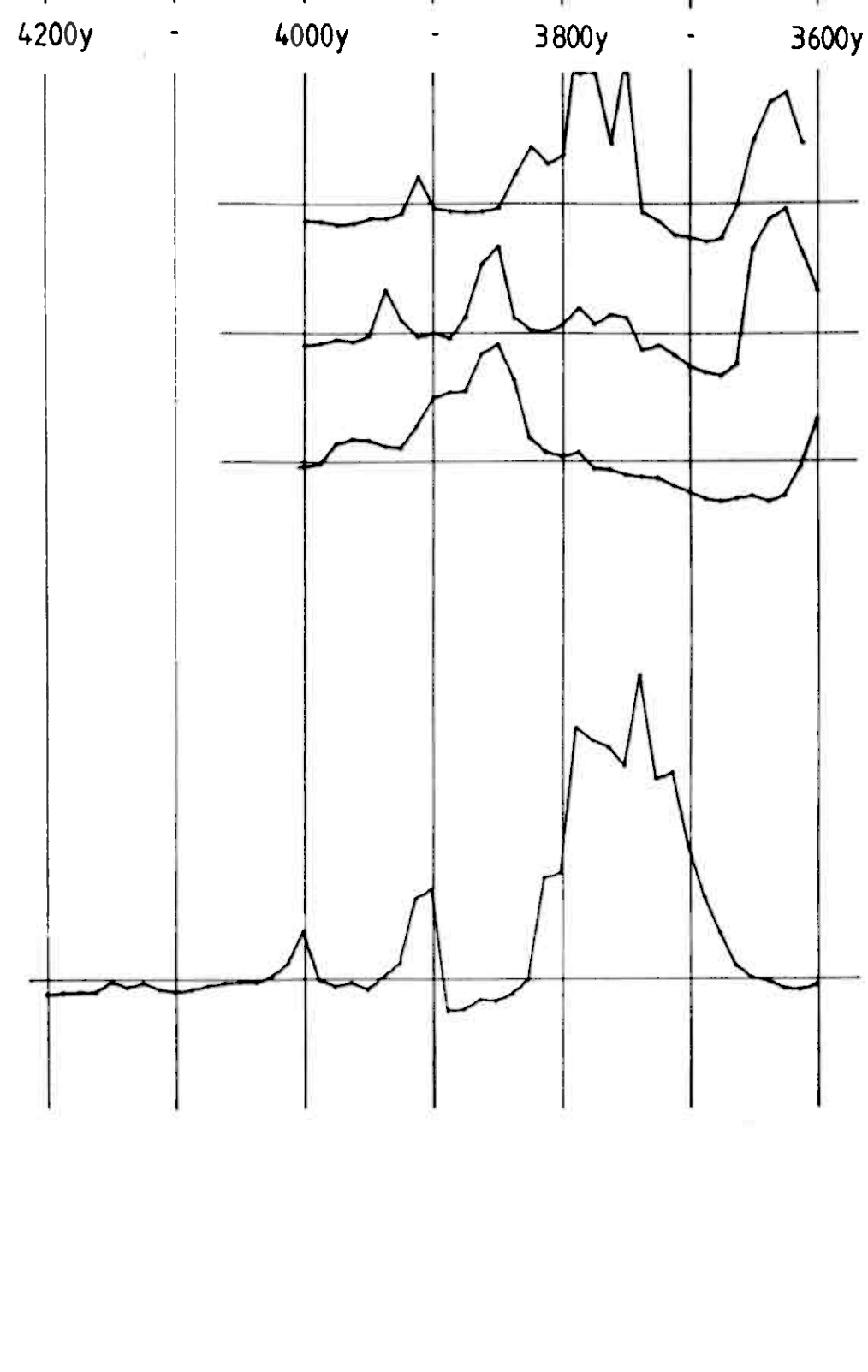
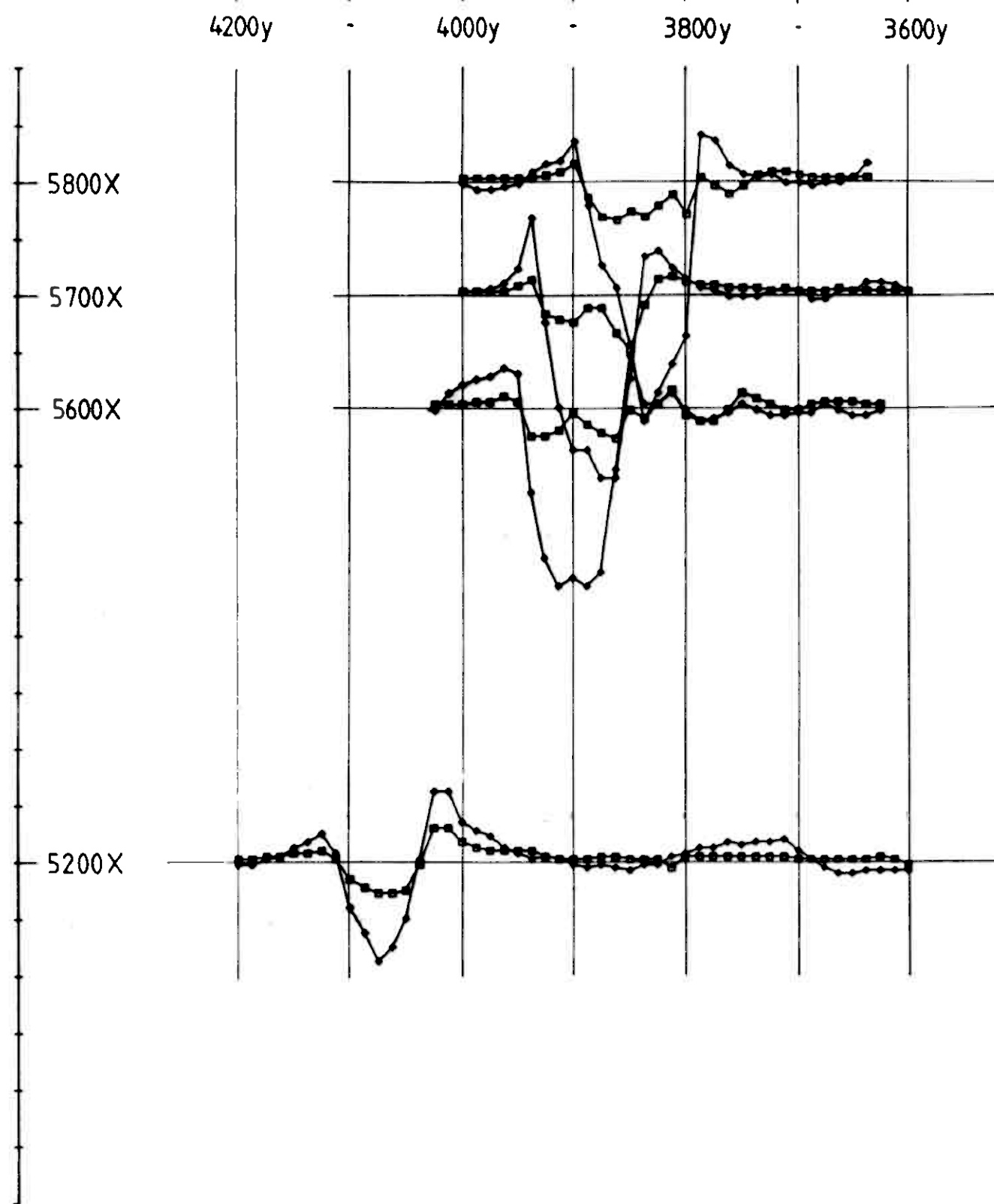
OMR. 68
 EM - MAG
 KAUTOKEINO

$\frac{1}{8}$ SULFIDMALM

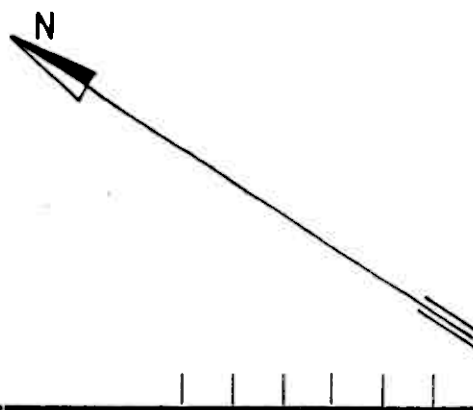
SCALE	OBS.	04-84
1:2500	DRAW.	05-84
	TRAC.	05-84
	CHK.	

MAP NO.

MAP SHEET



OMR. 69 1777 HZ 50M COIL SEP.
 ELEMENT MARKER
 RH $\diamond$ — $\diamond$
 IH $\square$ — $\square$



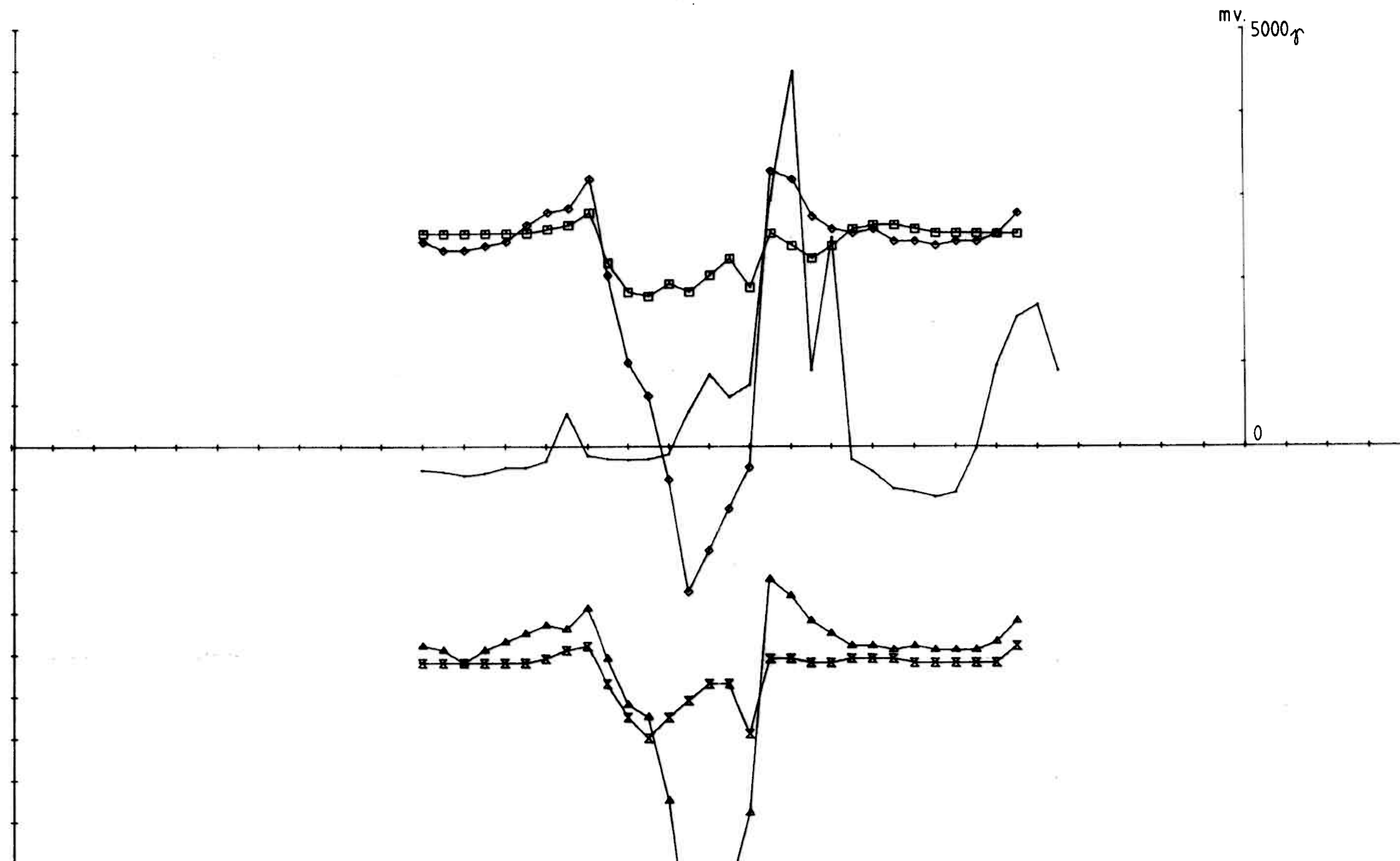
OMR. 69
 EM - MAG
 KAUTOKEINO

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

$\frac{1}{8}$ SULFIDMALM

MAP NO.

MAP SHEET



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

ELEMENT	MARKØR	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-85.0	16.0	500.0	10.0
IH	□—□	-14.0	6.0	500.0	10.0
RL	▲—▲	-70.0	16.0	-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

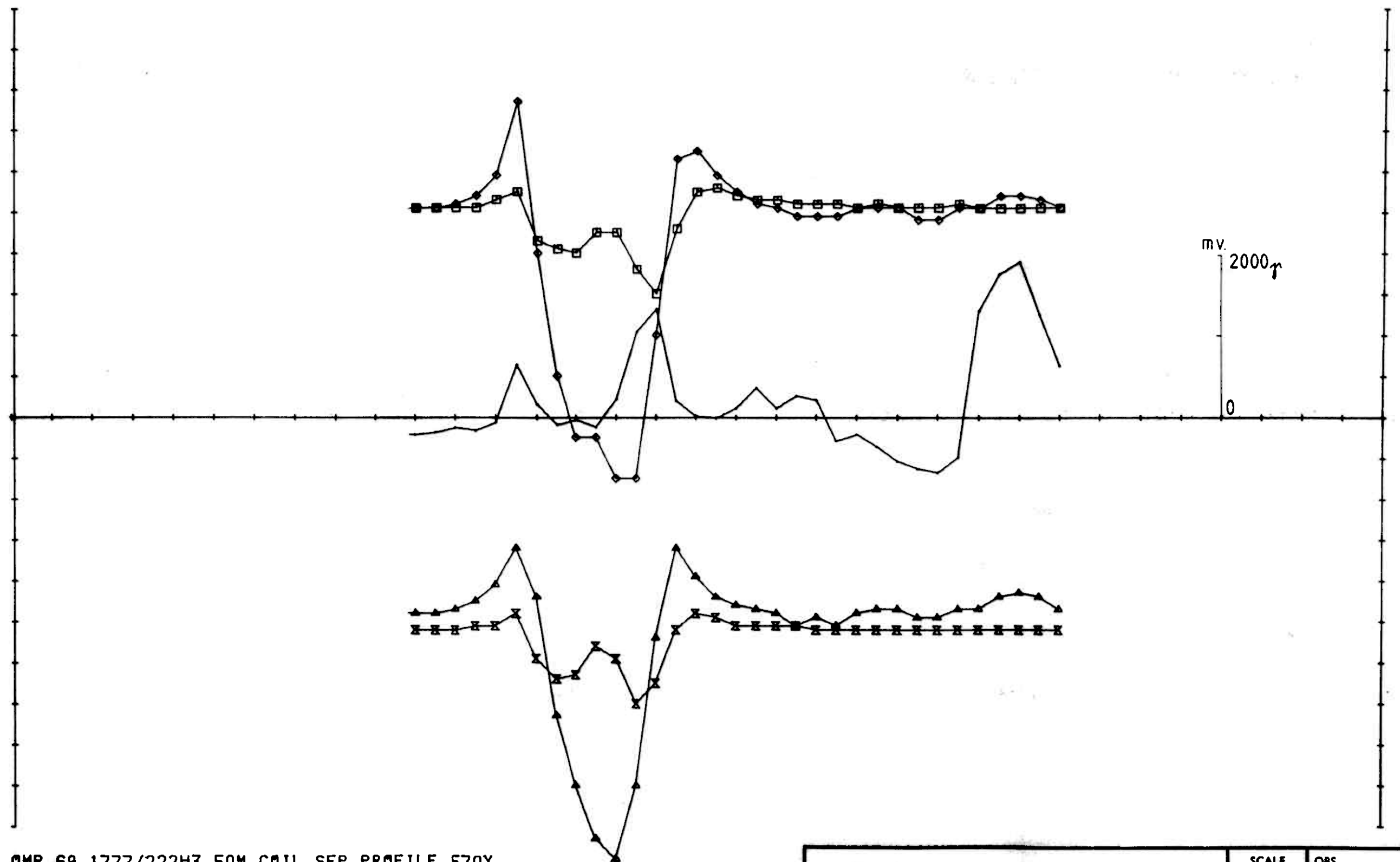
OMR. 69
 EM - MAG
 KAUTOKEINO

$\frac{1}{\%}$ 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 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	▲—▲	-58.0	18.0	-500.0	10.0
IL	×—×	-20.0	2.0	-500.0	10.0

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

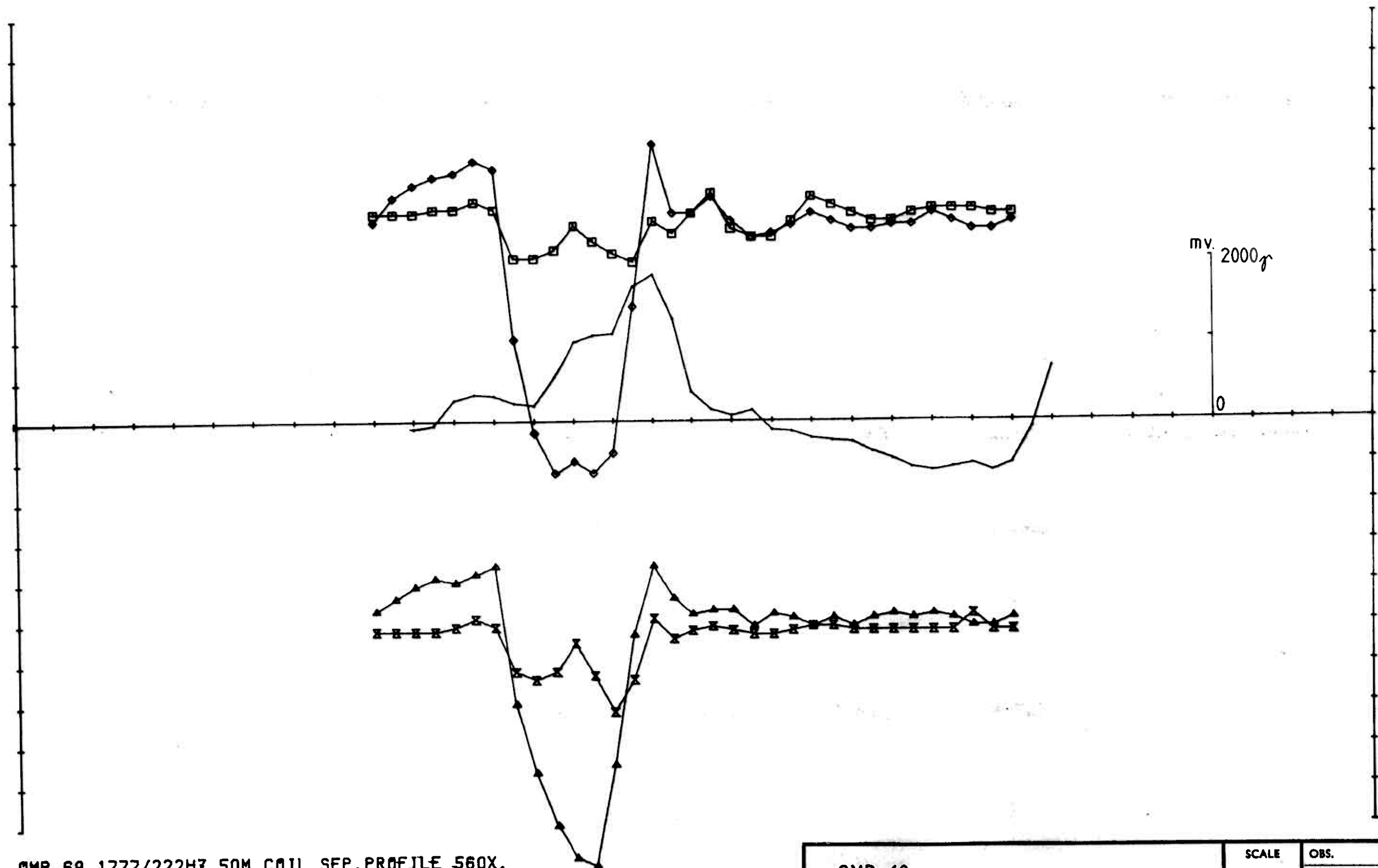
OMR. 69
 EM - MAG
 KAUTOKEINO

1/8 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 560X.

ELEMENT	MARKOR	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-63.0	18.0	500.0	10.0
IH	□—□	-11.0	8.0	500.0	10.0
RL	▲—▲	-60.0	14.0	-500.0	10.0
IL	×—×	-22.0	2.0	-500.0	10.0

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

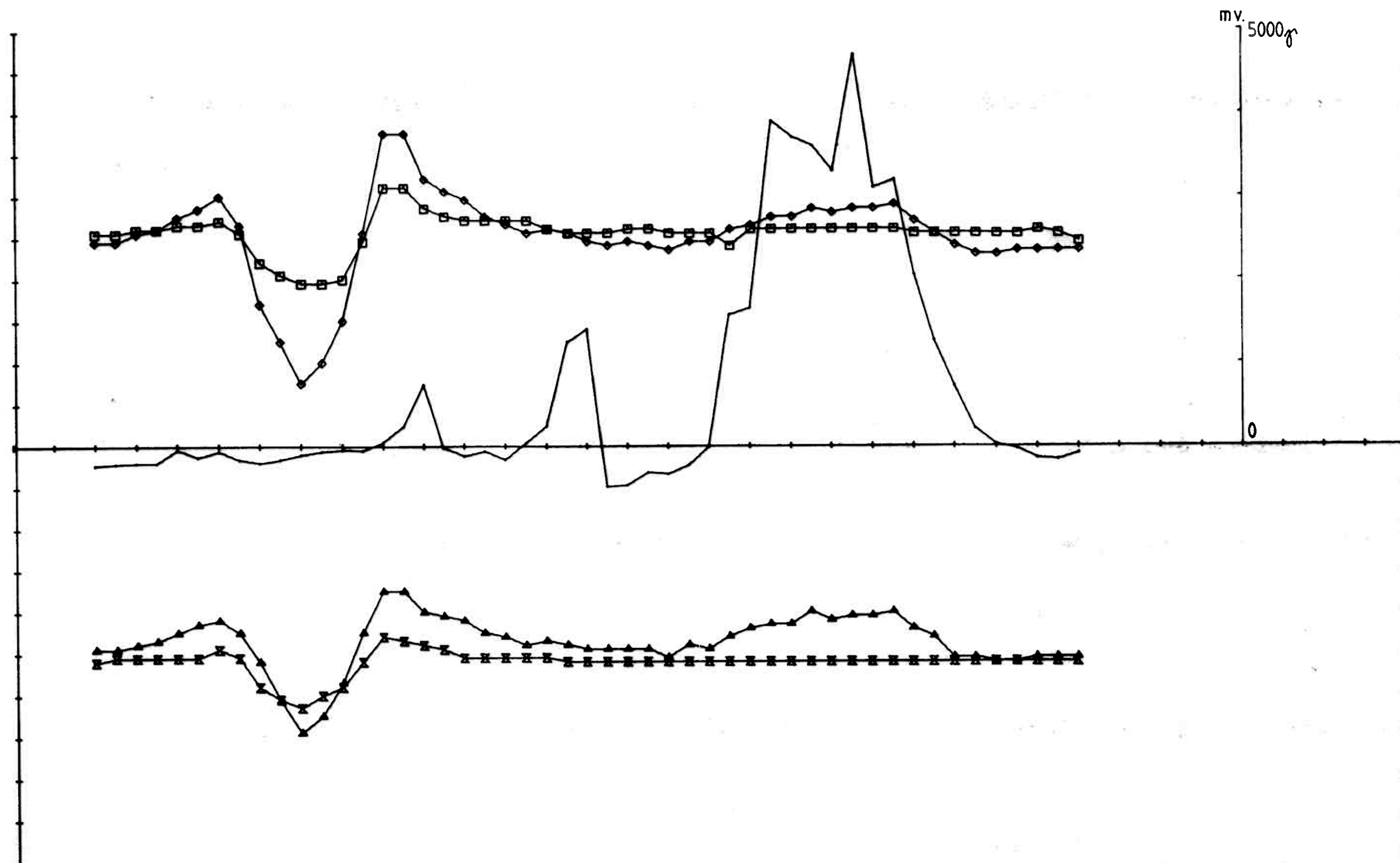
OMR. 69
 EM - MAG
 KAUTOKEINO

$\frac{1}{2}$ 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 520X.

ELEMENT	MARKOR	MIN. VERDI	MAX. VERDI	OFFSET	SKALA
RH	◆—◆	-38.0	25.0	500.0	10.0
IH	□—□	-11.0	12.0	500.0	10.0
RL	▲—▲	-18.0	15.0	-500.0	10.0
IL	×—×	-13.0	4.0	-500.0	10.0

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

OMR. 69
 EM - MAG
 KAUTOKEINO

⅞ SULFIDMALM

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

MAP NO.

MAP SHEET