HOD FIELD DEVELOPMENT AND OPERATING PLAN
VOLUME 2: EXHIBITS
TABLE OF CONTENTS

4 RESERVOIR ENGINEERING

HOD FIELD – DETAILED LOCATION MAP

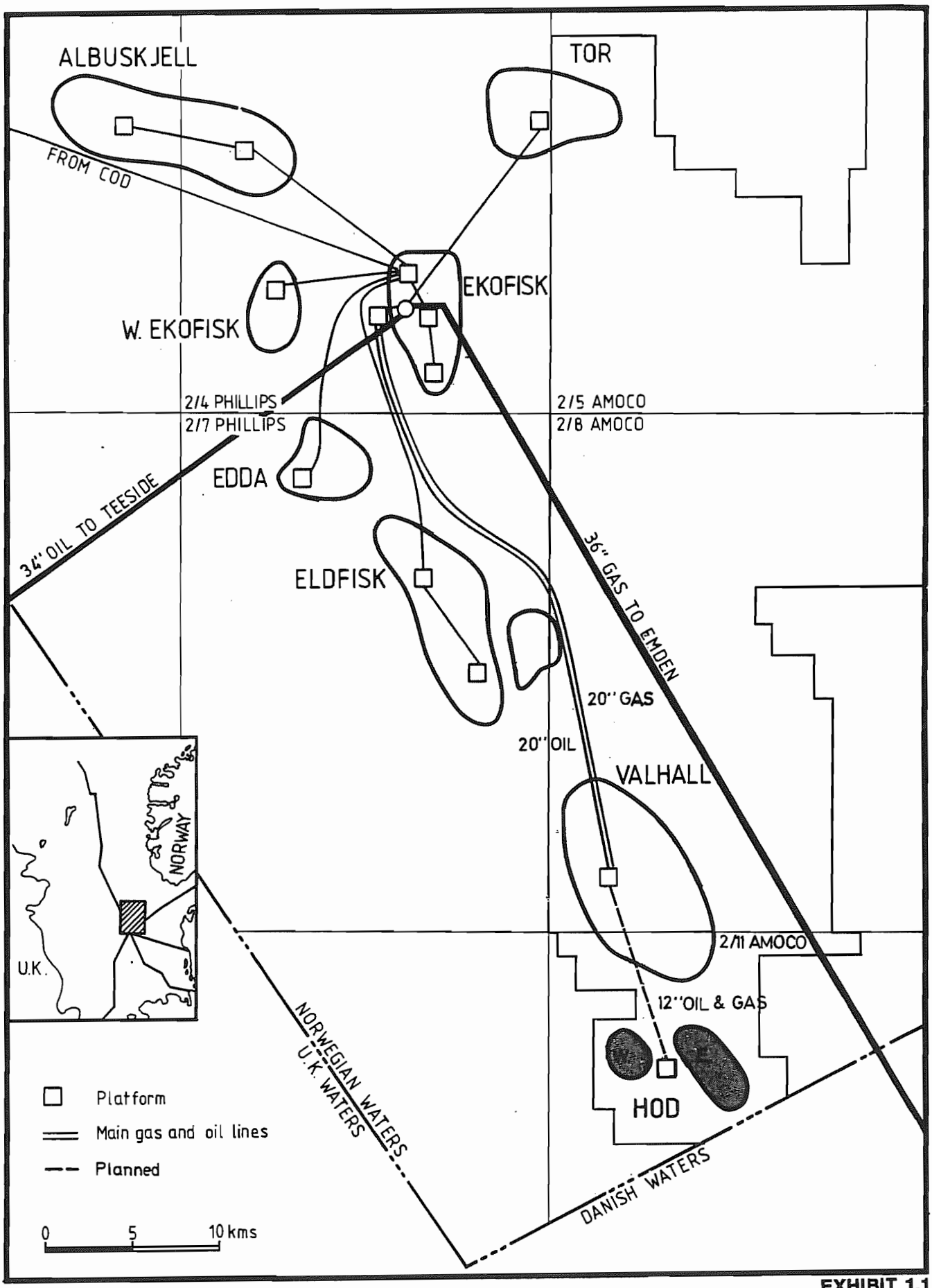

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EXHIBIT 1.1

LOCATION OF FIELDS AND PROSPECTS IN THE "EKOFISK/VALHALL AREA"

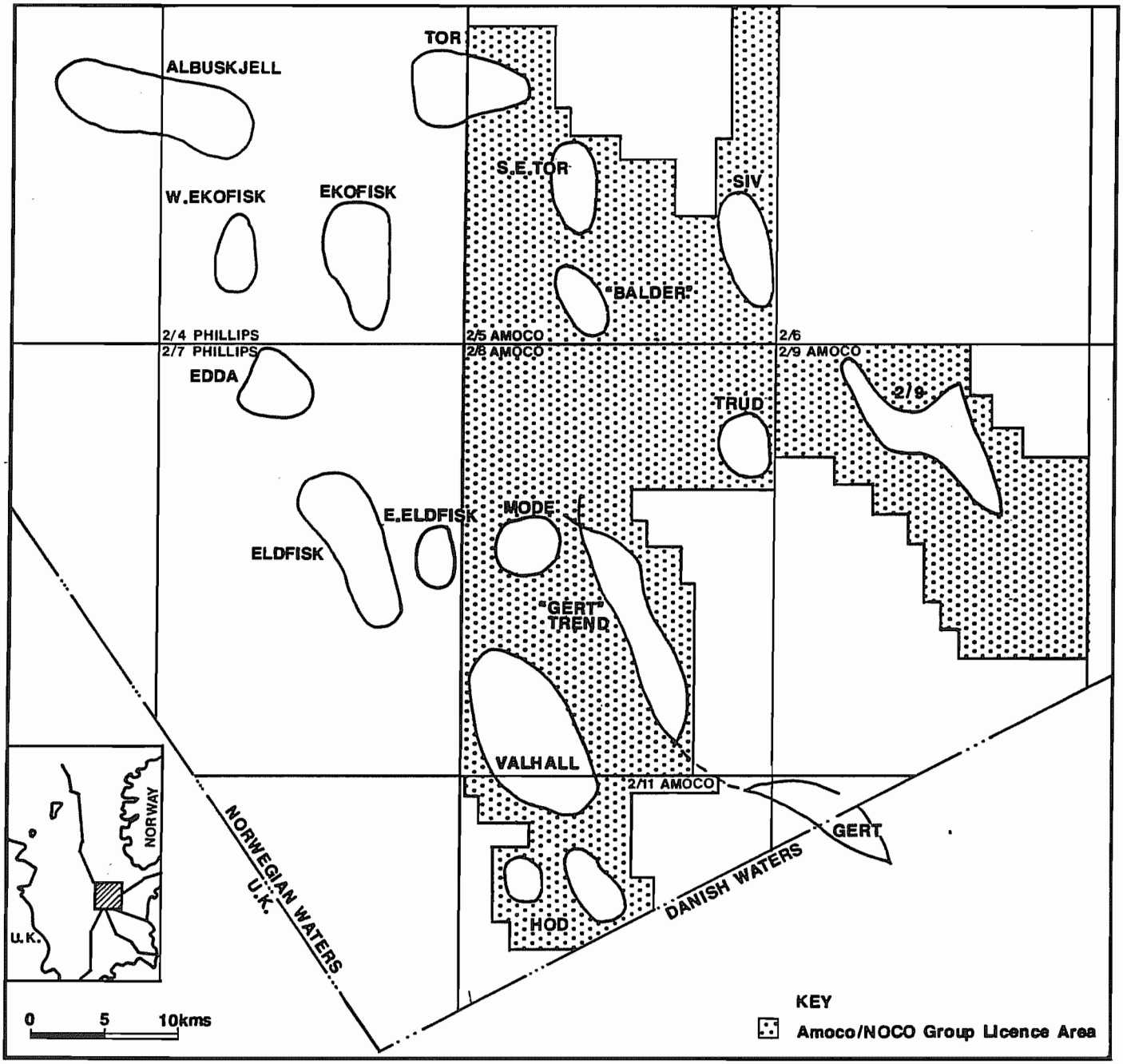

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EXHIBIT 1.2

VALHALL FIELD PRODUCTION PROFILE

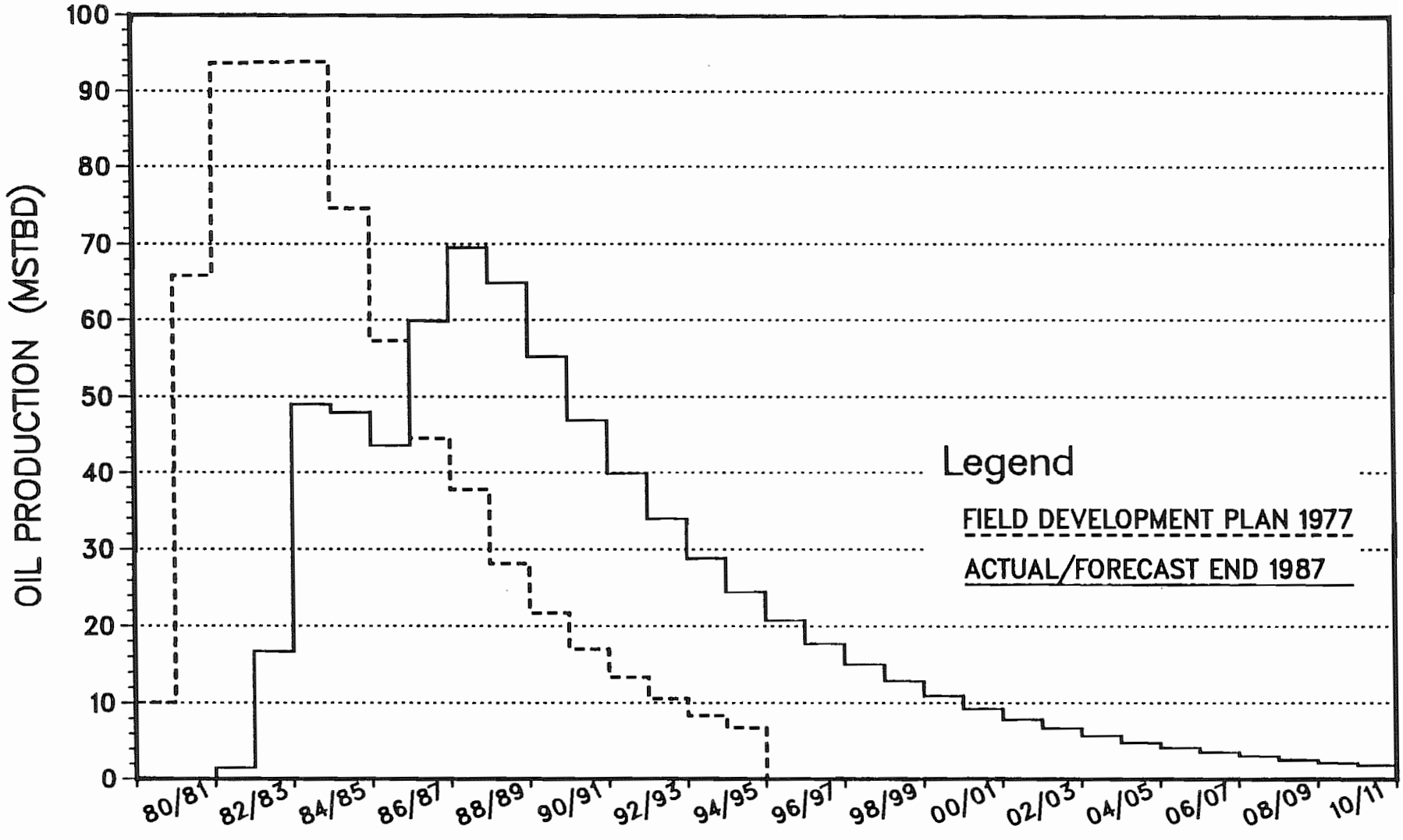
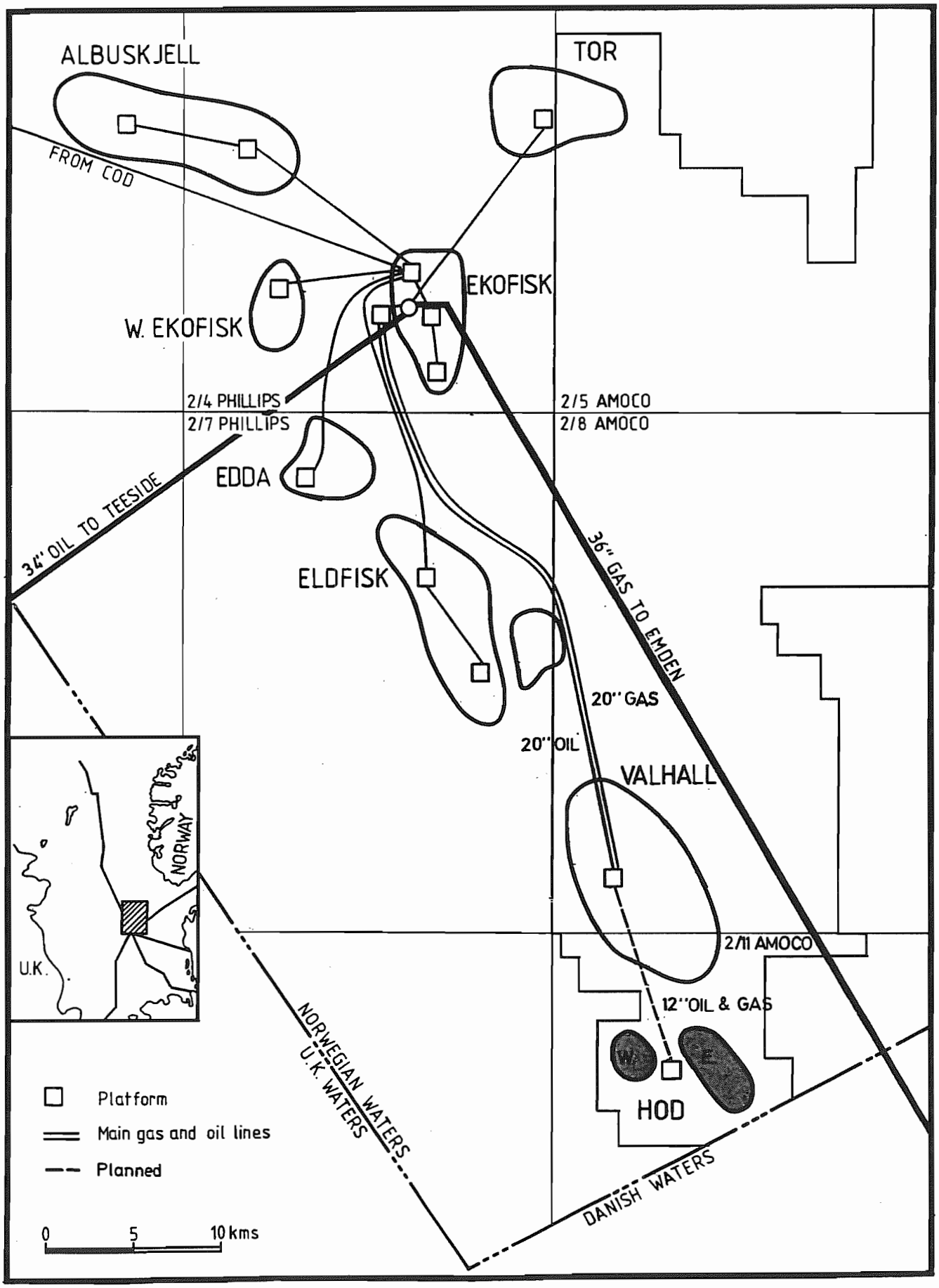


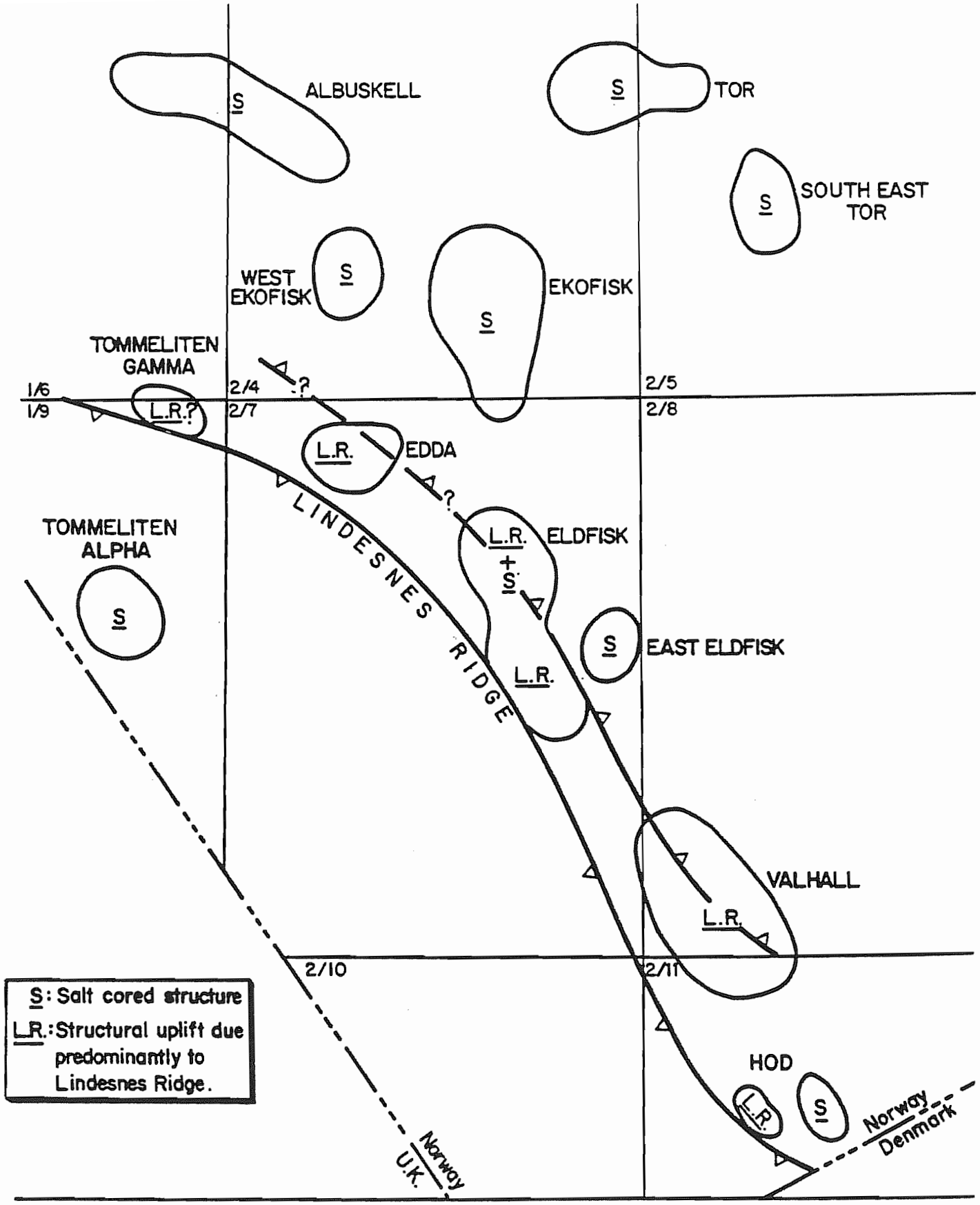
EXHIBIT 1.3

NO EXHIBITS FOR THIS CHAPTER

HOD FIELD – DETAILED LOCATION MAP



Ex. 3.1



NORWEGIAN CHALK FIELDS

and Mechanism for Structural Evolution

Ex. 3.2

STAGE	GROUP	FORMATION		PRODUCTION ZONES HOD
LATE PALEOCENE	ROGALAND	LISTA		
		MAUREEN EQUIV.		
EARLY PALEOCENE/ DANIAN	CHALK	EKOFISK		
LATE, MAASTRICHTIAN		TOR		T 1
EARLY MAASTRICHTIAN – EARLY/LATE CAMPANIAN				T 2
SANTONIAN		"DENSE ZONE"		
CONIACIAN		HOD	UPPER HOD MEMBER	H 1
TURONIAN			MIDDLE HOD MEMBER	H 2
			LOWER HOD MEMBER	H 3 H 4 H 5 H 6
		PLENUS MARL		
CENOMANIAN		HIDRA		
LATE ALBIAN	CROMER KNOLL	RØDBY		

Stratigraphic nomenclature of the Cretaceous — Paleocene in the Central Graben.

WELL 2/11-6 CORE ANALYSIS

L=Lab,F=Formation,C=Core type
Lab 1=Amoco 2=Corelab 3= Skanwell 4=Keplinger
Formation 1=Tor 2=Dense Zone 3=Upper Hod
Core Type 1=Plug 2=Large Core
Frac 1=Yes (Indicates if a fracture was observed in the plug)

Core			Depth	Porosity		Permeability					Saturation		
L	F	C	Metres	Porv	Porh	Kah	Klh	Kav	Klv	Rhog	Sw	So	Frac
4	1	1	3693.10		33.1					2.69	13.4	94.7	
4	1	1	3693.60		34.6					2.69	13.9	93.1	
4	1	1	3694.10		33.1	1.76				2.71	8.4	98.0	1
4	1	1	3694.35		32.4					2.69	10.2	92.0	
4	1	1	3694.85		32.0					2.71	12.0	93.2	1
4	1	1	3695.10		32.9	0.67				2.70	17.0	92.3	1
4	1	1	3695.35		29.4	0.29				2.70	24.5	80.0	
4	1	1	3695.75		30.6					2.69	29.0	85.8	
4	1	1	3696.60		28.8					2.70	31.7	72.4	1
4	1	1	3697.40		24.2					2.67	50.3	61.8	
4	1	1	3702.20		32.3					2.70	29.4	73.1	1
4	1	1	3702.20	30.4				1.71		2.70	31.2	74.3	1
4	1	1	3702.40		29.1	0.94				2.69	35.8	66.7	
4	1	1	3702.40	30.5				0.32		2.69	29.2	74.7	
4	1	1	3702.65		32.2	1.72	.074			2.69	28.9	73.3	1
4	1	1	3702.65	32.2				0.46		2.70	22.7	82.1	
4	1	1	3702.85		42.0	1.05	0.41			2.70	13.4	81.9	
4	1	1	3702.85	33.8				3.61		2.70	22.7	81.6	1
4	1	1	3703.10		33.0	0.41	.101			2.70	22.9	79.9	
4	1	1	3703.10	34.6				0.50		2.70	15.9	89.3	
4	1	1	3703.35		32.8	0.28				2.70	29.6	75.1	
4	1	1	3703.60		34.4	0.36				2.69	23.2	78.9	
4	1	1	3703.60	35.3				0.33		2.70	23.8	78.2	
4	1	1	3703.85		34.9	2.20				2.70	24.2	78.8	1
4	1	1	3703.85	35.1				0.38		2.70	25.1	76.6	
4	1	1	3704.10		35.3	0.45	.063			2.70	28.4	72.7	
4	1	1	3704.10	34.9				0.77		2.69	29.0	73.5	1
4	1	1	3704.35		34.4	0.26	.058			2.70	25.4	72.6	
4	1	1	3704.35	34.3				0.27		2.69	24.1	76.8	
4	1	1	3704.85		27.7					2.68	7.0	95.0	
4	1	1	3705.00		38.9	0.46	.147			2.71	13.4	83.7	
4	1	1	3705.10		38.6	0.45	.132			2.69	19.3	81.8	
4	1	1	3705.10	38.4			.072	0.51	.153	2.70	18.6	83.0	

WELL 2/11-6 CORE ANALYSIS

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Formation 1=Tor 2=Dense Zone 3=Upper Hod
Core Type 1=Plug 2=Large Core
Frac 1=Yes (Indicates if a fracture was observed in the plug)

	Core			Depth	Porosity		Permeability					Saturation		
	L	F	C	Metres	Porv	Porh	Kah	Klh	Kav	Klv	Rhog	Sw	So	Frac
TOR	4	1	1	3705.60		37.2	0.36	.087			2.70	24.1	77.1	
	4	1	1	3705.60	38.0				0.48	.073	2.70	20.3	80.5	
	1	1	1	3705.80		38.2								
	4	1	1	3705.85		39.4	0.60	.133			2.68	17.4	84.8	
	4	1	1	3705.85	35.5				0.34	.089	2.70	22.1	79.4	
	4	1	1	3708.10		35.7	1.54	.069			2.70	17.9	85.6	1
	4	1	1	3708.10	37.8				2.21	.085	2.69	23.3	79.4	1
	4	1	1	3708.60		33.5	0.54	.080			2.70	22.6	80.3	
	4	1	1	3708.85		31.5					2.70	31.3	70.4	
	4	1	1	3709.60		33.5	0.63	.108			2.69	22.3	83.3	1
	4	1	1	3710.05		13.0	0.15	.012			2.71	47.1	58.7	1
	4	1	1	3710.10		15.7	10.10	.182			2.71	41.5	60.6	1
	4	1	1	3710.35		23.8	4.90				2.70	27.8	80.2	1
	4	1	1	3716.05		32.7	4.16	.331			2.70	21.5	81.0	
	4	2	1	3716.35		30.0	0.65	.109			2.70	18.0	86.8	
	4	2	1	3717.35		13.2					2.72	66.6	36.3	
	4	2	1	3717.85		13.6	1.98				2.71	66.7	45.3	1
	4	2	1	3719.00		4.1					2.70			
HOD	4	2	1	3720.10		9.3	0.18	.008			2.71	35.5	72.4	
	4	2	1	3720.10	7.0				0.03	.0001	2.70	65.3	43.8	
	4	2	1	3720.35		8.2	.013	.0001			2.71	65.3	60.0	
	4	2	1	3720.70		5.8	.0023	.0001			2.71	55.3	63.9	1
	4	2	1	3721.10		4.8	.0004	.0001			2.71			1
	4	2	1	3721.10	4.9				.002	.0001	2.71			1
	4	2	1	3721.35		4.0	.0001	.0001			2.70	90.2	21.7	1
	4	2	1	3721.35	4.7				.0008	.0001	2.71			1
	4	2	1	3721.70		5.1	.0012	.0001			2.71	87.7	40.2	
	4	2	1	3721.70	4.5				.0007	.0001	2.71			1
	4	2	1	3721.85		4.8	.0014	.0001			2.71	66.4	58.6	
	4	2	1	3721.85	5.4				0.17	.117	2.72			1
	4	2	1	3722.00		5.6	.0076	.0001			2.71	87.6	33.3	1
	4	2	1	3722.00	4.8				0.001	.0001	2.71			1
	4	3	1	3722.35		23.9	0.58	.112			2.70	27.6	79.1	

Ex. 3.4 cont.

WELL 2/11-6 CORE ANALYSIS

L=Lab,F=Formation,C=Core type
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Core Type 1=Plug 2=Large Core
Frac 1=Yes (Indicates if a fracture was observed in the plug)

Core			Depth	Porosity		Permeability				Saturation		
L	F	C	Metres	Porv	Porh	Kah	Klh	Kav	Klv	Rhog	Sw	So	Frac
4	3	1	3722.35	10.7				0.045	.009	2.71			1
4	3	1	3722.60		10.9					2.70	26.8	33.9	
4	3	1	3723.10		27.2					2.70	21.1	87.9	1
4	3	1	3724.80		32.5	2.21				2.70	17.9	94.8	1
4	3	1	3724.80	28.0					0.41	2.71			1
4	3	1	3725.10		24.3	0.58	.221			2.71	18.1	88.6	
4	3	1	3725.10	24.9				0.56	0.24	2.71			
4	3	1	3725.50		23.3					2.70	16.2	91.2	1
4	3	1	3725.50	23.3				0.48	0.17	2.70			
4	3	1	3725.60		30.4	0.83	.213			2.70	15.9	88.4	
4	3	1	3725.60	26.8				0.58	0.23	2.70			
4	3	1	3726.10		33.6	1.62	.438			2.70	18.0	86.5	
4	3	1	3726.10	33.0					0.39	2.70			
4	3	1	3726.60		32.3					2.68	25.3	89.7	1
4	3	1	3726.60	29.8					0.17	2.70			
4	3	1	3727.00		27.0	0.55	.215			2.71	17.4	87.2	
4	3	1	3727.50		27.0	0.43	.111			2.70	19.1	84.8	
4	3	1	3727.50	27.8				0.53	0.17	2.70			
4	3	1	3727.75		27.0					2.68	20.9	96.8	1
4	3	1	3727.75	28.6					0.36	2.70			
4	3	1	3728.50		27.5	0.52	.122			2.71	21.0	83.3	
4	3	1	3728.50	29.1				0.54	0.15	2.70			
4	3	1	3733.20		30.1					2.68	29.2	45.9	
4	3	1	3733.35		32.1	0.24	.038			2.70	29.1	75.2	
4	3	1	3733.35	30.9				0.24	.049	2.70			
4	3	1	3733.60		32.2		.070			2.71	31.8	71.1	1
4	3	1	3734.10		31.3		.023			2.70	31.8	75.6	1
4	3	1	3734.35		27.7					2.69	54.1	19.9	
4	3	1	3734.85		28.1					2.69	46.9	14.9	
4	3	1	3735.10		33.1	1.00	.061			2.71	22.6	82.1	
4	3	1	3736.10		29.4					2.69	32.8	42.9	
4	3	1	3736.35		37.1	0.27	.008			2.70	18.9	85.9	
4	3	1	3737.60		34.4					2.69	26.6	55.1	

Ex. 3.4 cont.

WELL 2/11-6 CORE ANALYSIS

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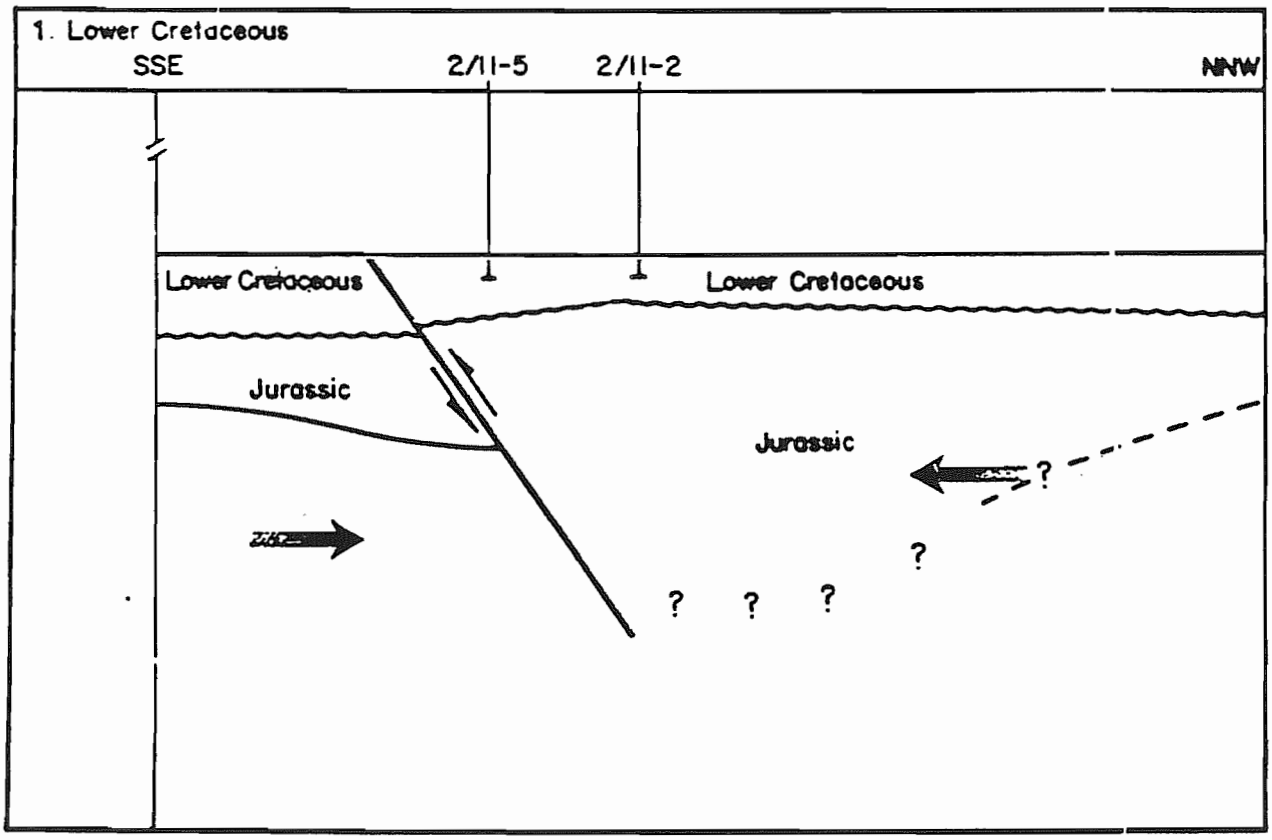
Core			Depth	Porosity		Permeability					Saturation		
L	F	C	Metres	Porv	Porh	Kah	Klh	Kav	Klv	Rhog	Sw	So	Frac
4	3	1	3738.30		32.7					2.71	45.8	27.2	
4	3	1	3738.85		38.4	0.64	.129			2.69	18.6	85.1	
4	3	1	3738.85	35.7				0.36	.036	2.69			
1	3	1	3739.30		38.3								
4	3	1	3739.35		37.9					2.67	21.8	62.2	

Notes:
This core was cut in a highly deviated well (approx 50 degrees) and was sealed in wax and seal-peal.Vertical plugs were cut parallel to the axis of the core.Horizontal plugs were cut normal to the core axis but were oriented where possible to be horizontal relative to bedding planes.
Liquid permeability is permeability to oil for uncleaned native state samples (i.e with irreducible water saturation present).
Air permeability is permeability to air measured on cleaned samples.
Water saturations were determined by Dean Stark extraction of native state samples.Oil saturations were calculated by weight analysis.
Total saturations less than 100 percent correspond to rubble samples that were not fully saturated before testing.Totals in excess of 100 percent are attributable to some rock sample loss during testing.

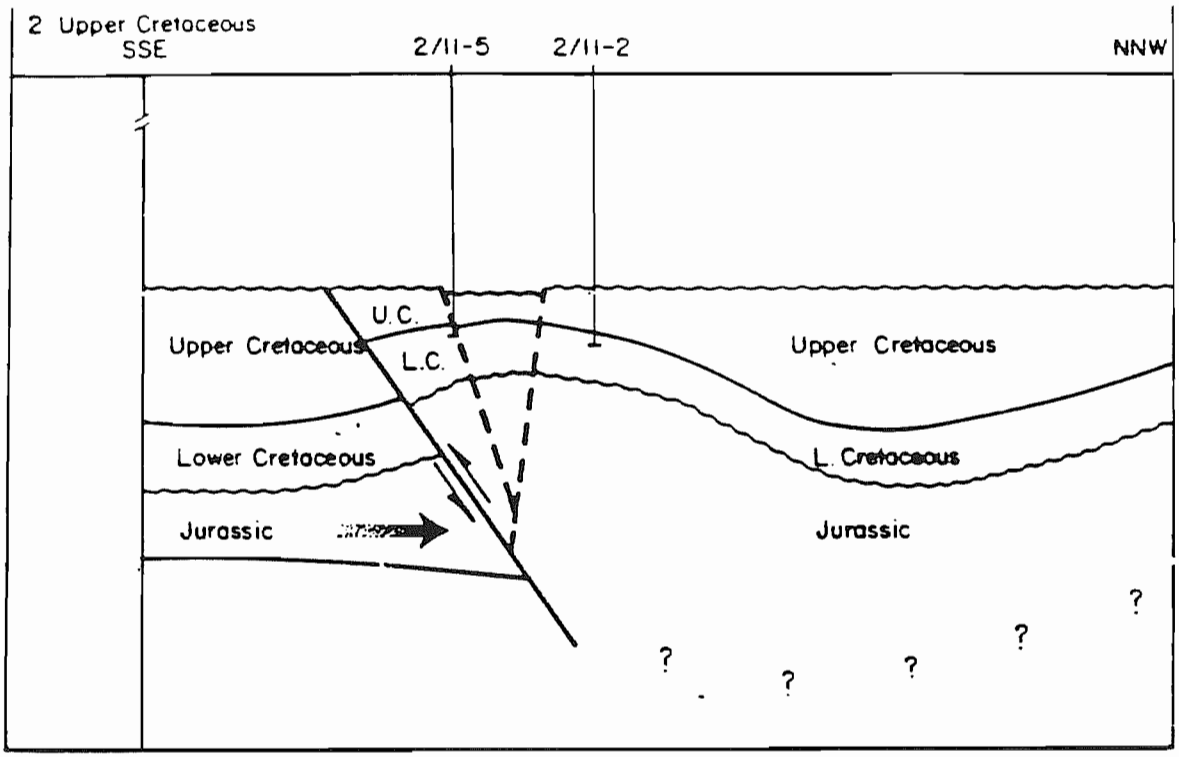


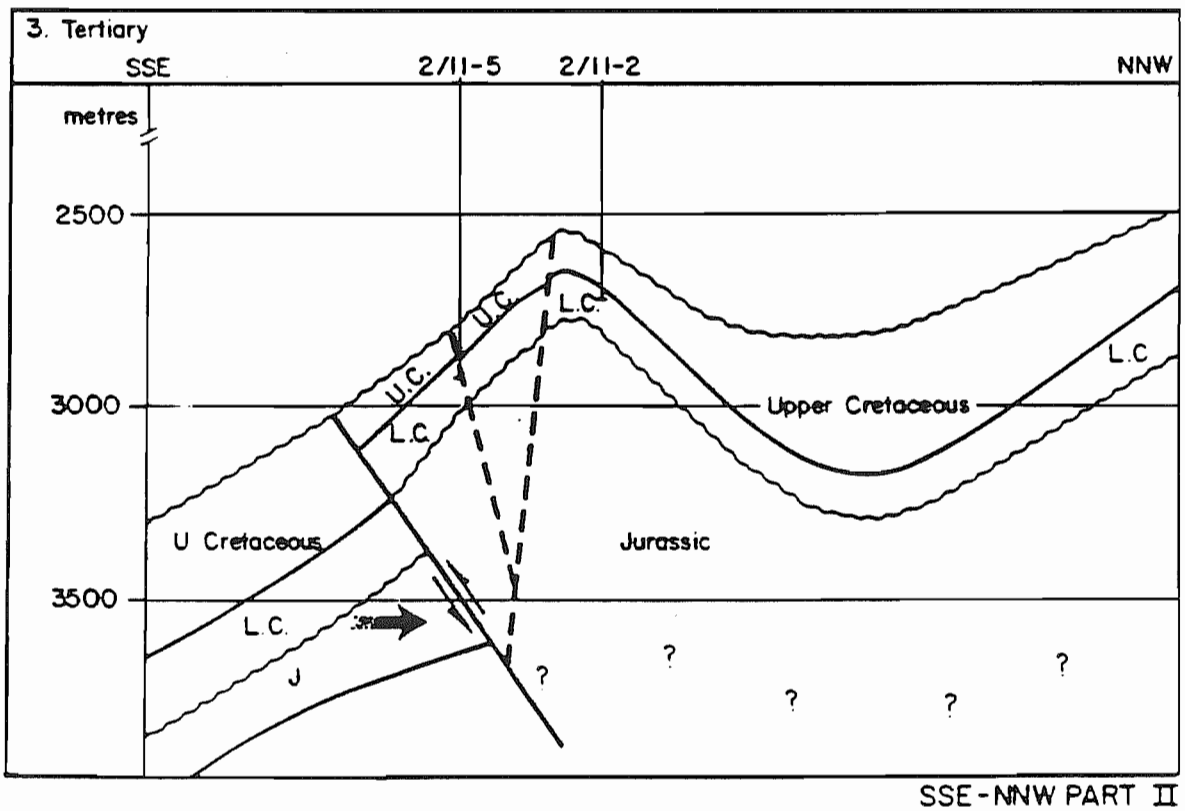
SSE-NNW PART I

STRUCTURAL EVOLUTION – HOD FIELD

Lower Cretaceous

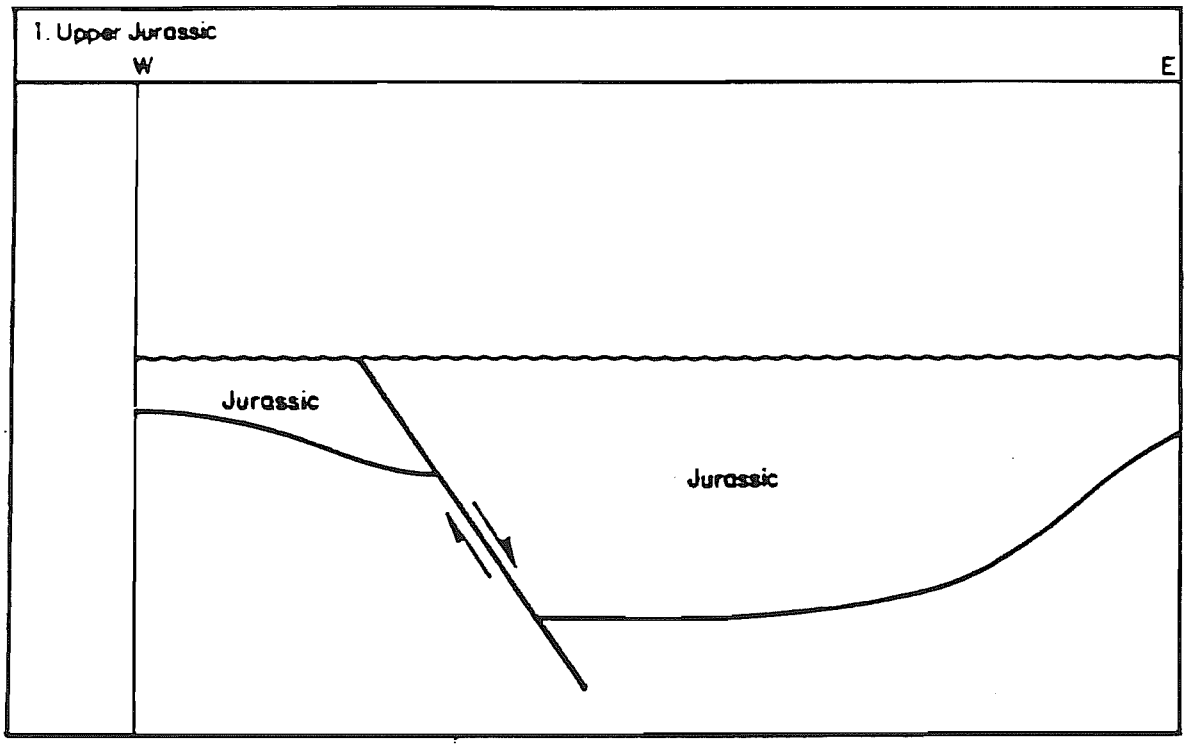
(HORIZ. SCALE = 5 x VERT. SCALE)

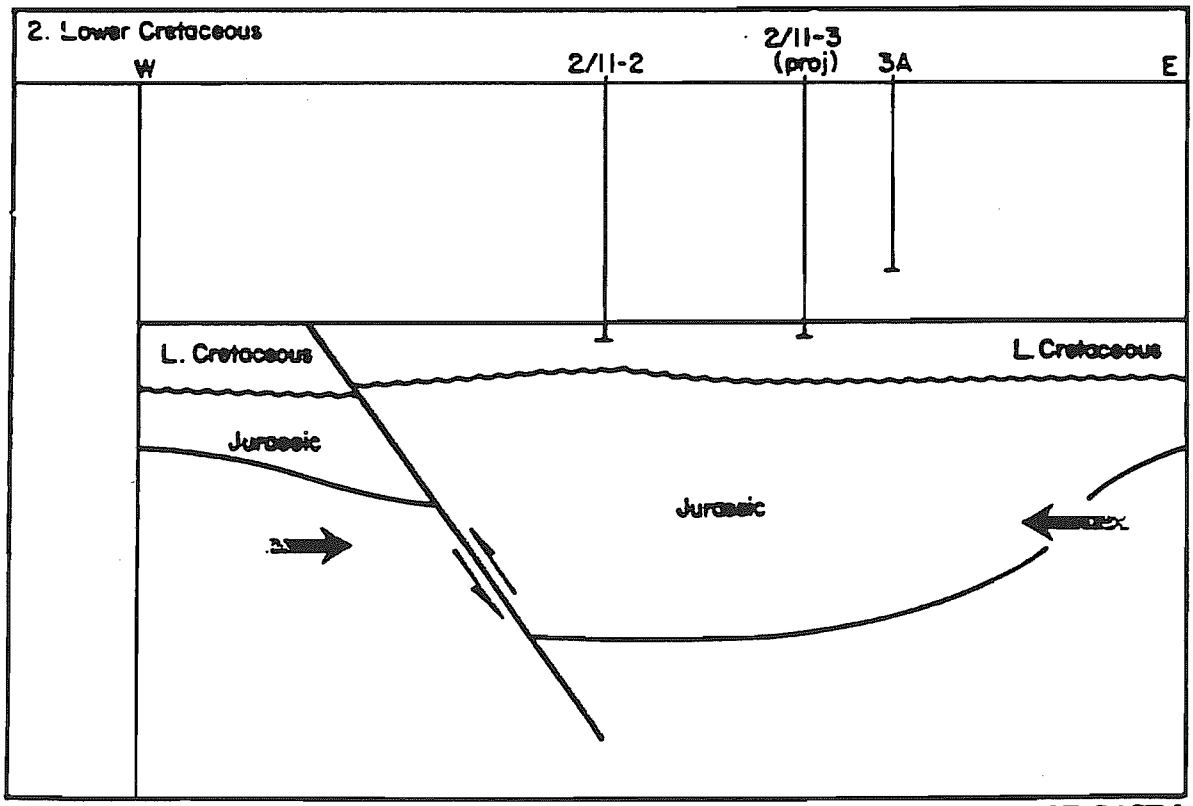




SSE-NNW PART II

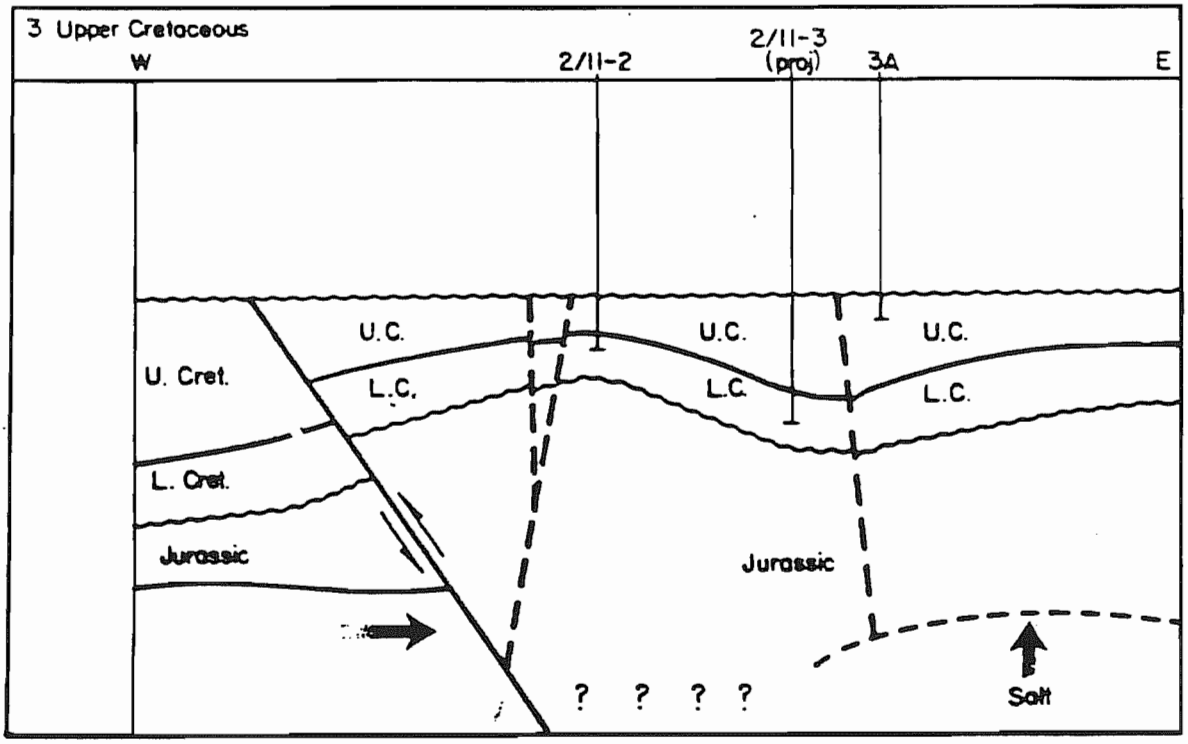
STRUCTURAL EVOLUTION - HOD FIELD
Upper Cretaceous - Tertiary
(HORIZ SCALE = 5 x VERT SCALE)

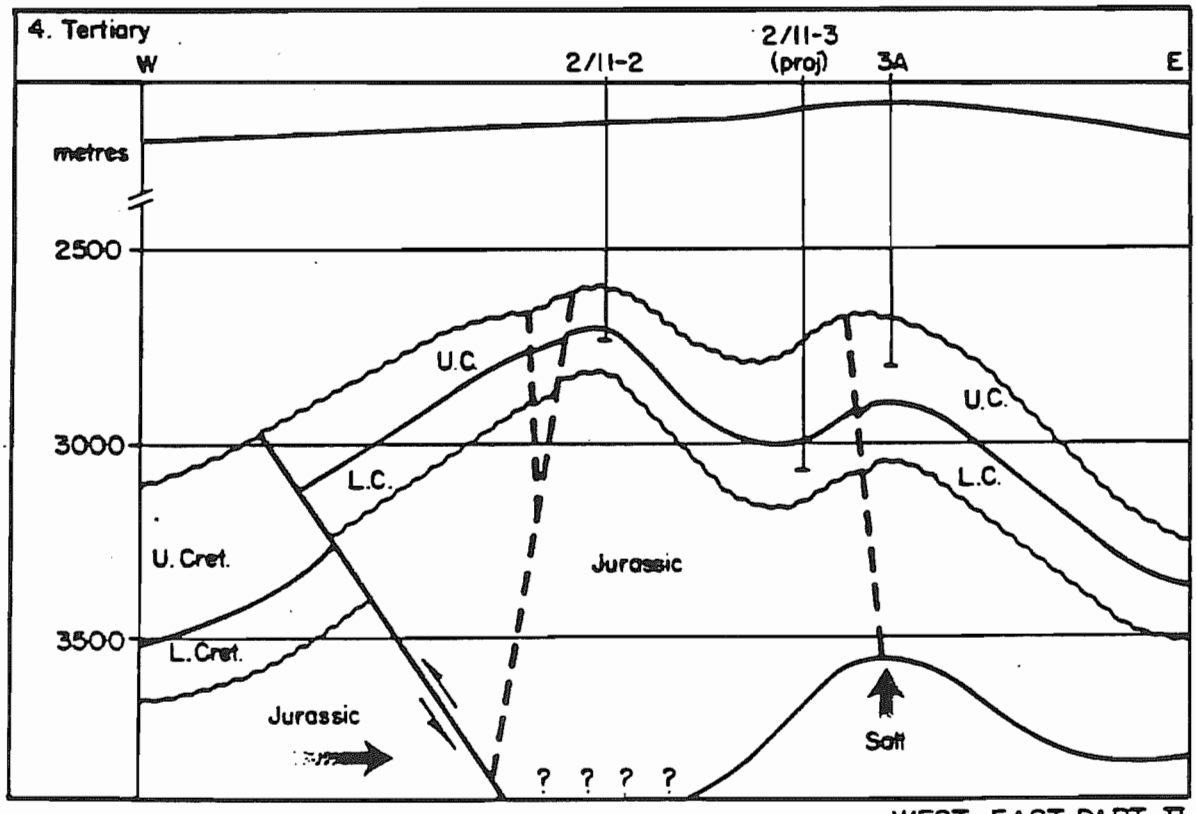




WEST-EAST PART I

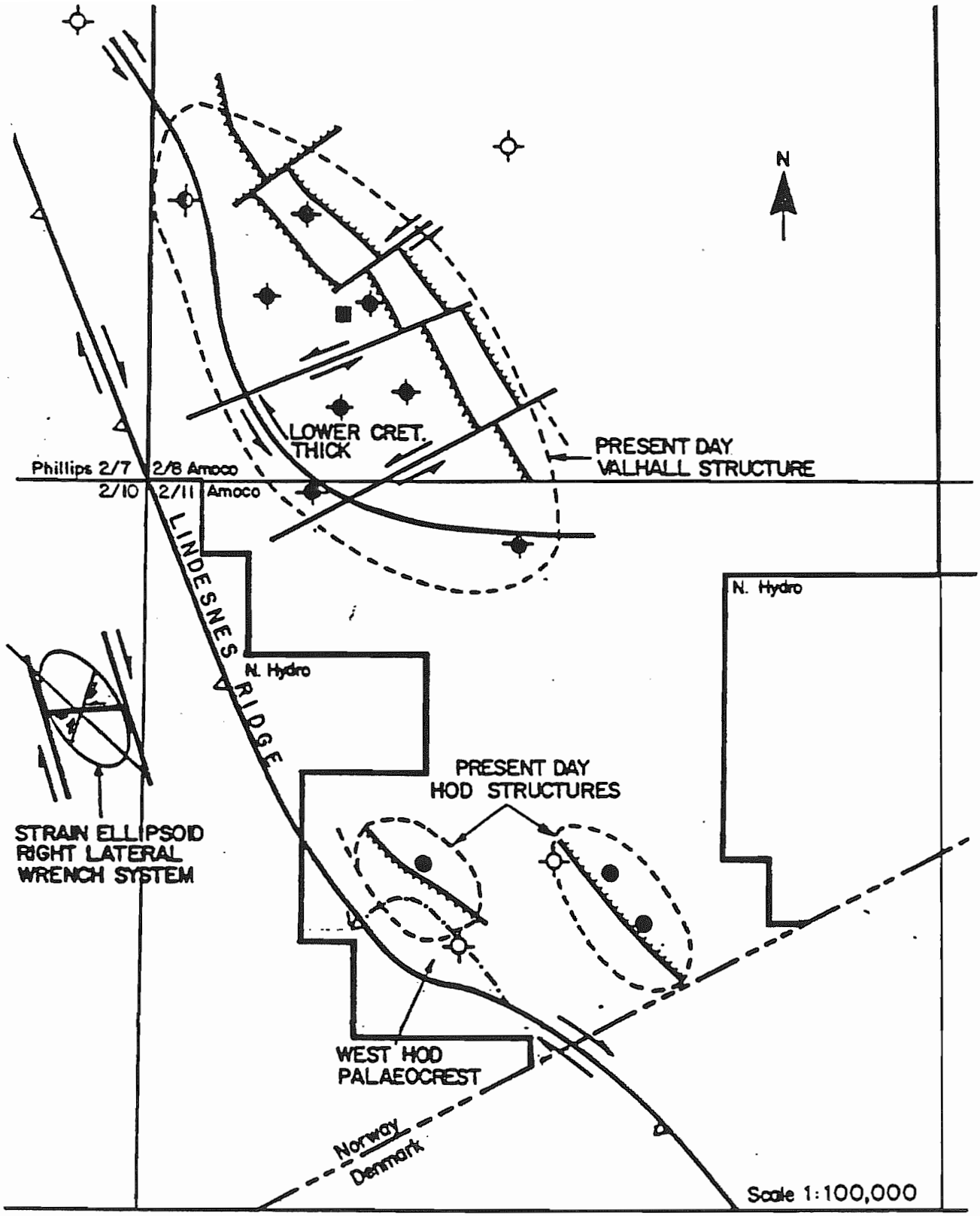
STRUCTURAL EVOLUTION – HOD FIELD
Upper Jurassic – Lower Cretaceous
(HORIZ. SCALE = 5 x VERT SCALE)





WEST-EAST PART II

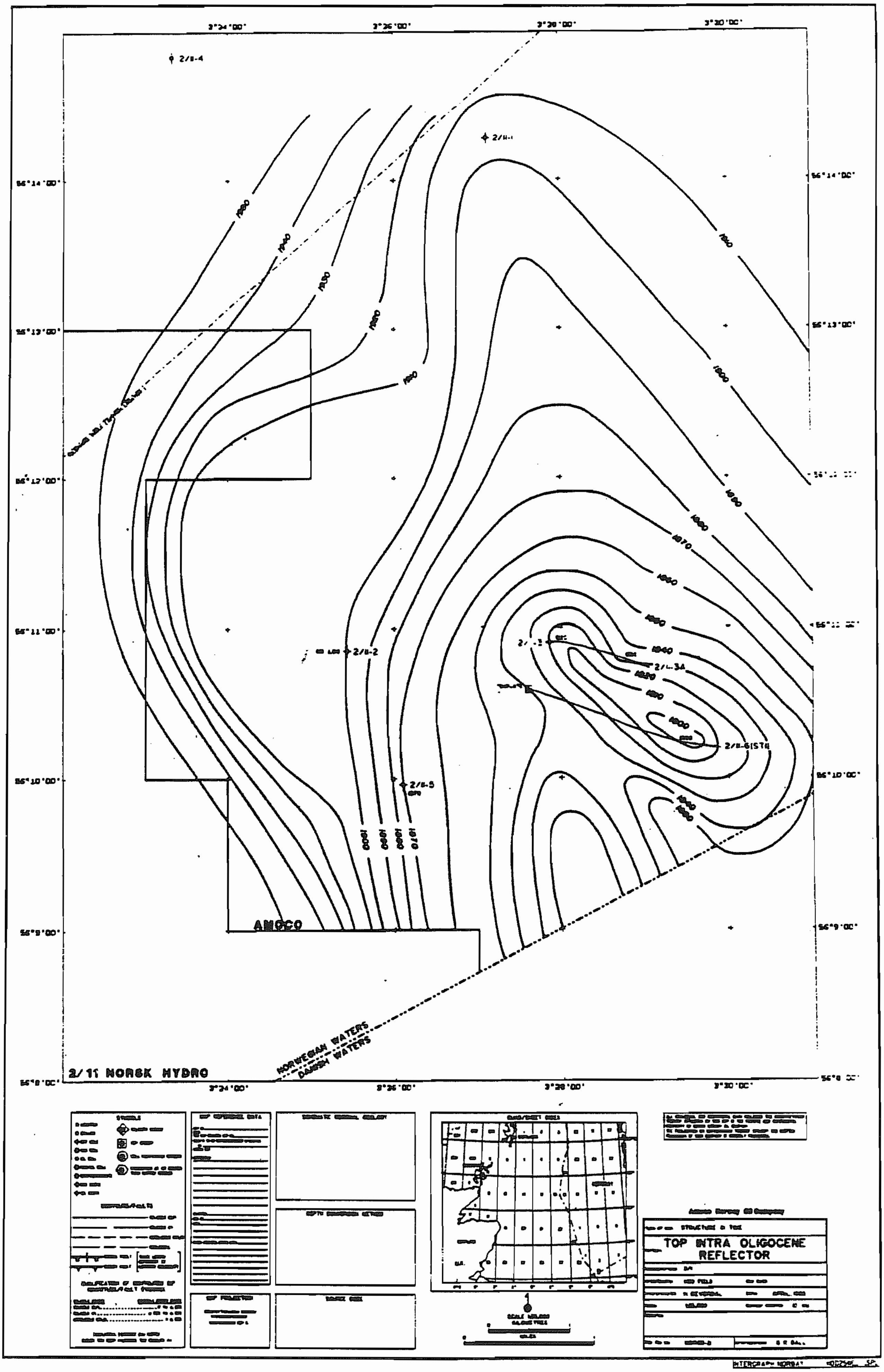
STRUCTURAL EVOLUTION – HOD FIELD
Upper Cretaceous – Tertiary
(HORIZ SCALE = 5x VERT SCALE)



VALHALL/HOD

Tectonic Elements

Ex. 3.9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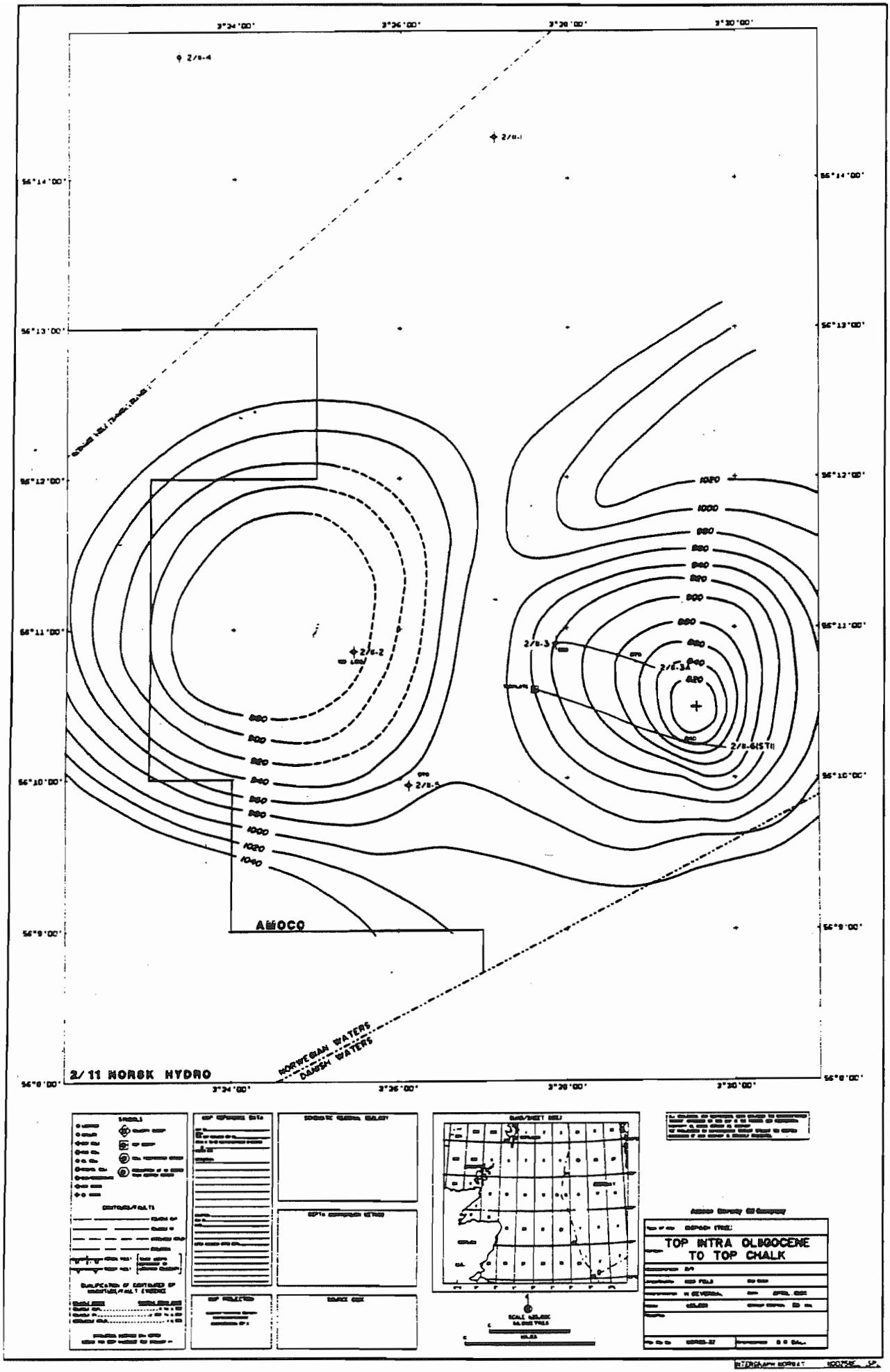
3°26'00"
3°28'00"
3°30'00"
56°14'00"
56°13'00"
56°12'00"
56°11'00"
56°10'00"
56°9'00"
56°8'00"
2/11-4
2/11-1
2/11-2
2/11-3
2/11-3A
2/11-6(ST)
2/11-5
1840
1850
1860
1870
1880
1890
1900
1910
AMOCO
2/11 NORSK HYDRO
NORWEGIAN WATERS
DANISH WATERS
TOP INTRA OLIGOCENE
REFLECTOR

Ex. 3.10


3°34'00"
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56°12'00"
56°11'00"
56°10'00"
56°9'00"
56°8'00"
2/8-4
2/8-1
2/8-2
2/8-3
2/8-3A
2/8-6(ST1)
2/8-5
1020
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980
960
940
920
900
880
860
840
820
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780
760
740
720
700
680
660
640
620
600
580
560
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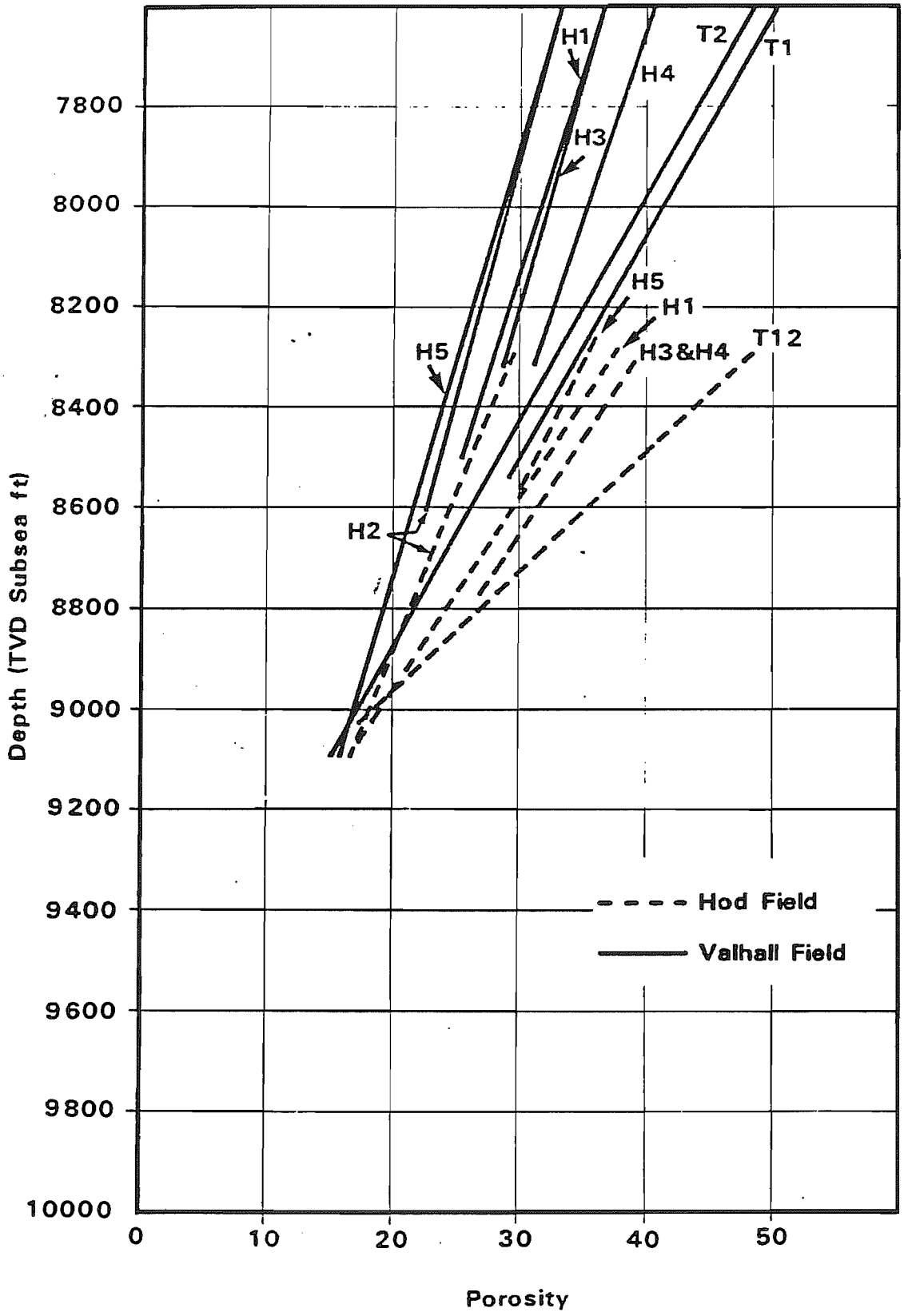
520
500
480
460
440
420
400
380
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
AMOCO
2/11 NORSK HYDRO
NORWEGIAN WATERS
DANISH WATERS
TOP INTRA OLIGOCENE
TO TOP CHALK

Ex. 3.11

VALHALL - HOD FIELDS

Statistical Porosity Versus depth Relationships - by Horizon

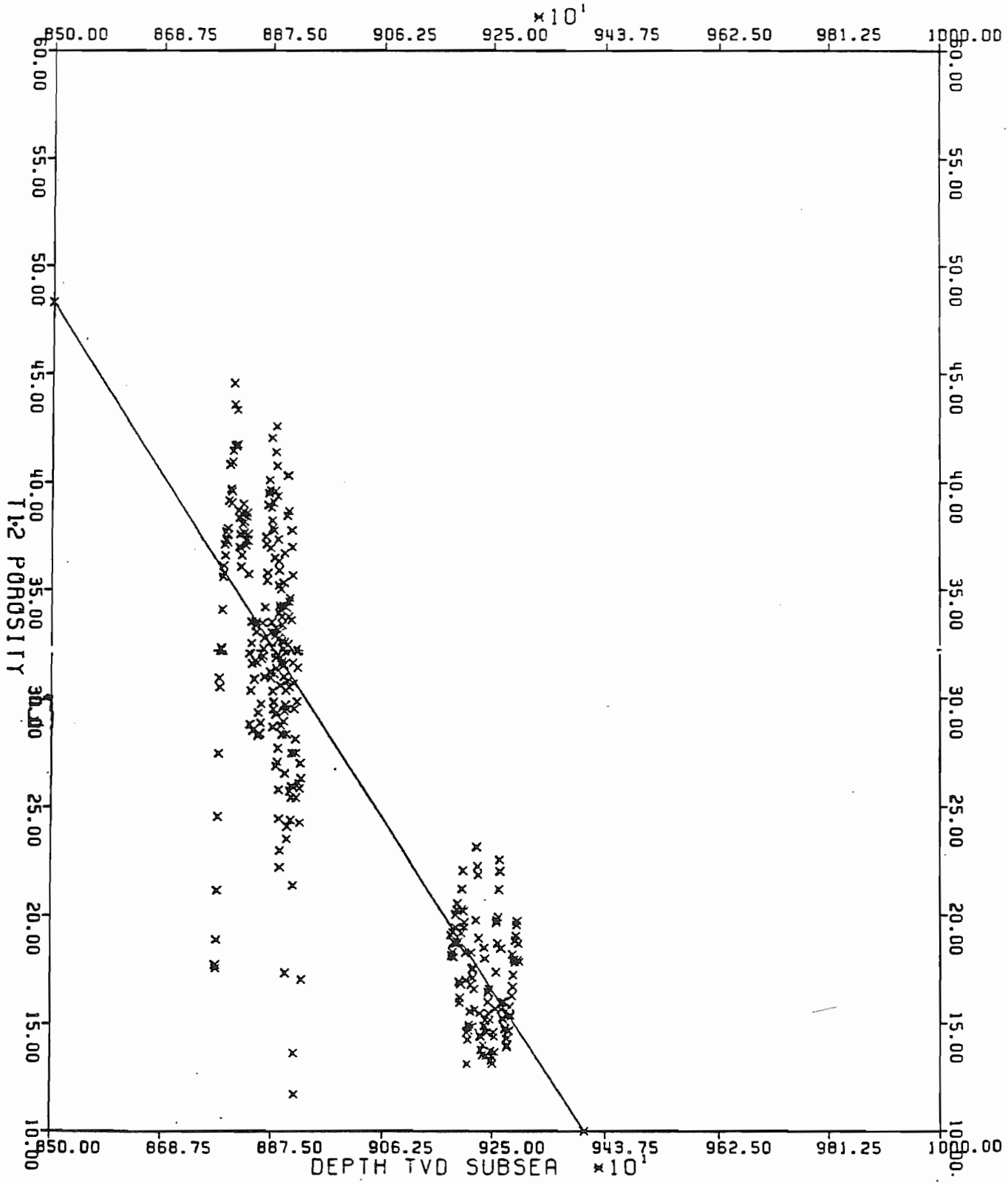


Ex. 3.12

HOD FIELD

T1·2 Porosity vs Depth

```
XYTOP=    1.00 XYBOT=  332.00 HOLGATE=NO    DATE=05/16/85
SYMBOL=X CONDITIONS=UNCONDITIONAL                    CORRELATION QUALITY= 74.PERCNT
   331 SYMBOL 'X' POINTS AVAIL AVERAGE DD     =  8995.28 AVERAGE PORSTY=    27.30
BEST FIT LINE .. PORSTY= 408.83+-0.0424*DD      ... DD     = 9639.1+ -23.58*PORSTY
JOB NAME=         .  PLOT TAPE VOL. SER.=
```

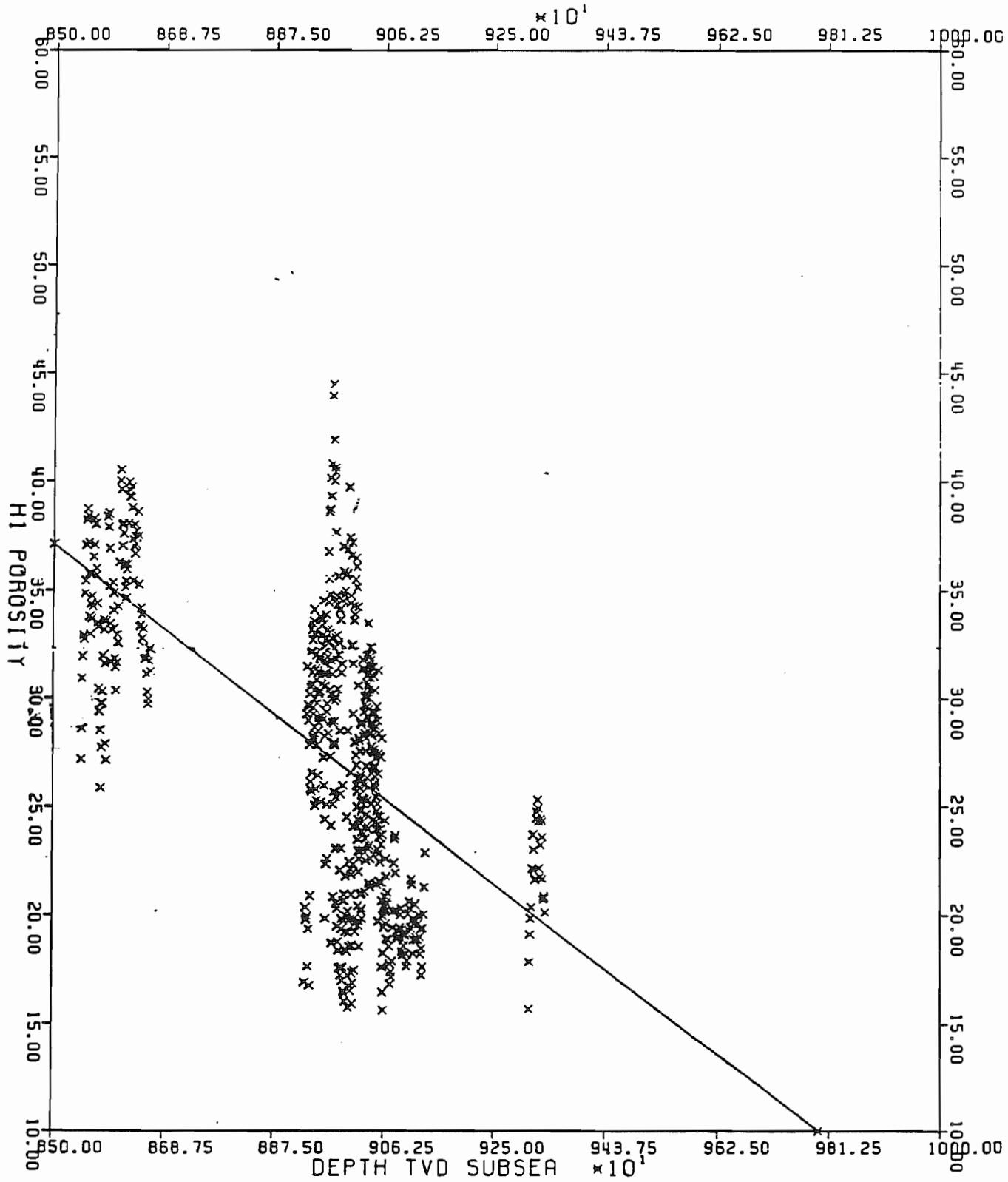


Ex. 3.13

HOD FIELD

H1 Porosity vs Depth

XYTOP= 1.00 XYBOT= 638.00 HOLGATE=NO DATE=05/17/85
SYMBOL=X CONDITIONS=UNCONDITIONAL CORRELATION QUALITY= 36.PERCNT
*636 SYMBOL 'X' POINTS AVAIL AVERAGE DD = 8951.91 AVERAGE PORSTY= 27.66
BEST FIT LINE .. PORSTY= 215.31+-0.0210*DD ... DD = 10271.+ -47.70*PORSTY
JOB NAME= . PLOT TAPE VOL. SER.=

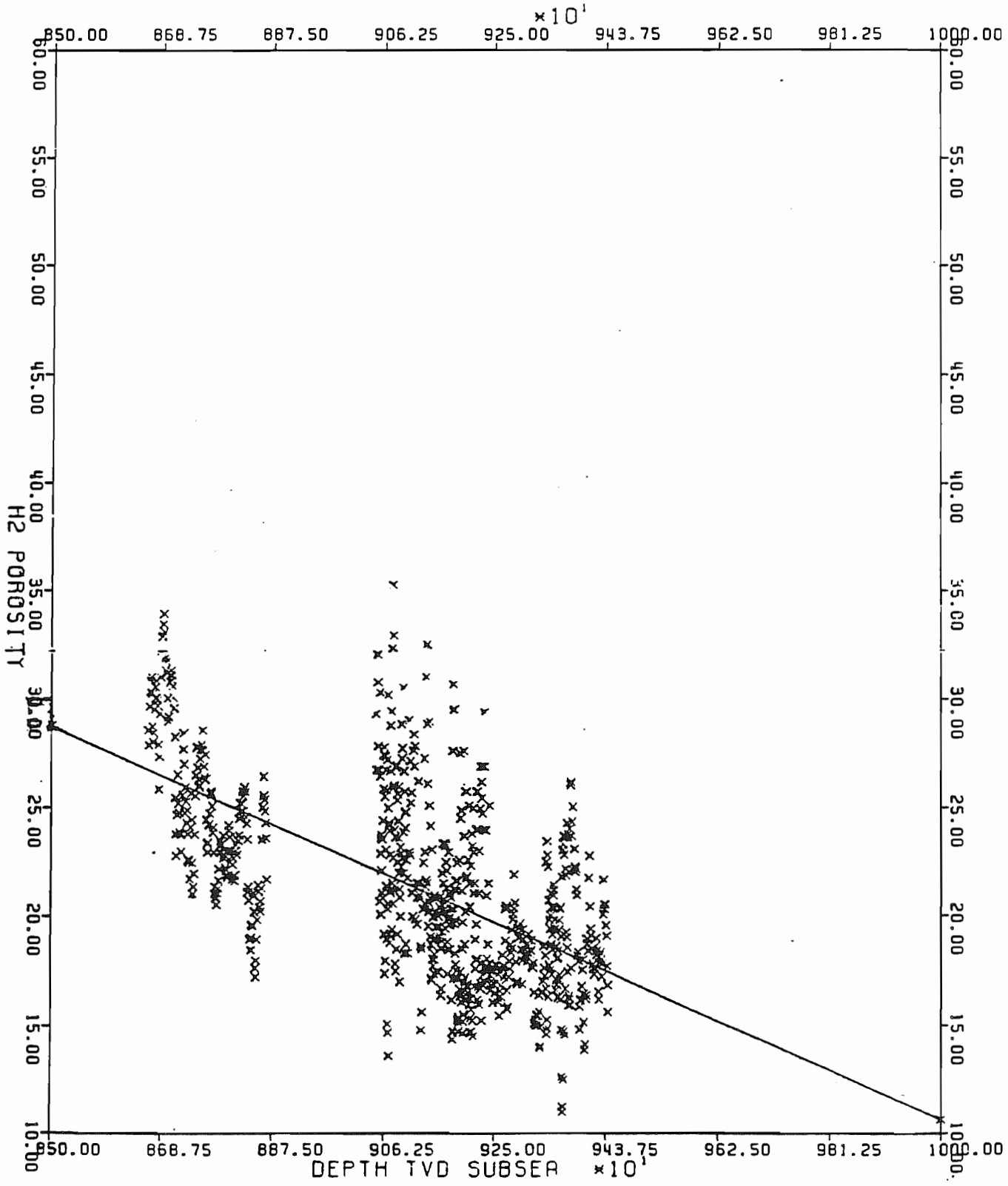


Ex. 3.14

HOD FIELD

H2 Porosity vs Depth

```
XYTOP=    1.00 XYBOT=  627.00 HOLGATE=NO    DATE=05/17/85
SYMBOL=X CONDITIONS=UNCONDITIONAL                    CORRELATION QUALITY= 39.PERCNT
   797 SYMBOL 'X' POINTS AVAIL AVERAGE DD     =  9111.38 AVERAGE PORSTY=    21.37
BEST FIT LINE .. PORSTY= 131.31+-0.0121*DD      ... DD     = 10883.+ -82.88*PORSTY
UOB NAME=         .  PLOT TAPE VOL. SER.=
```

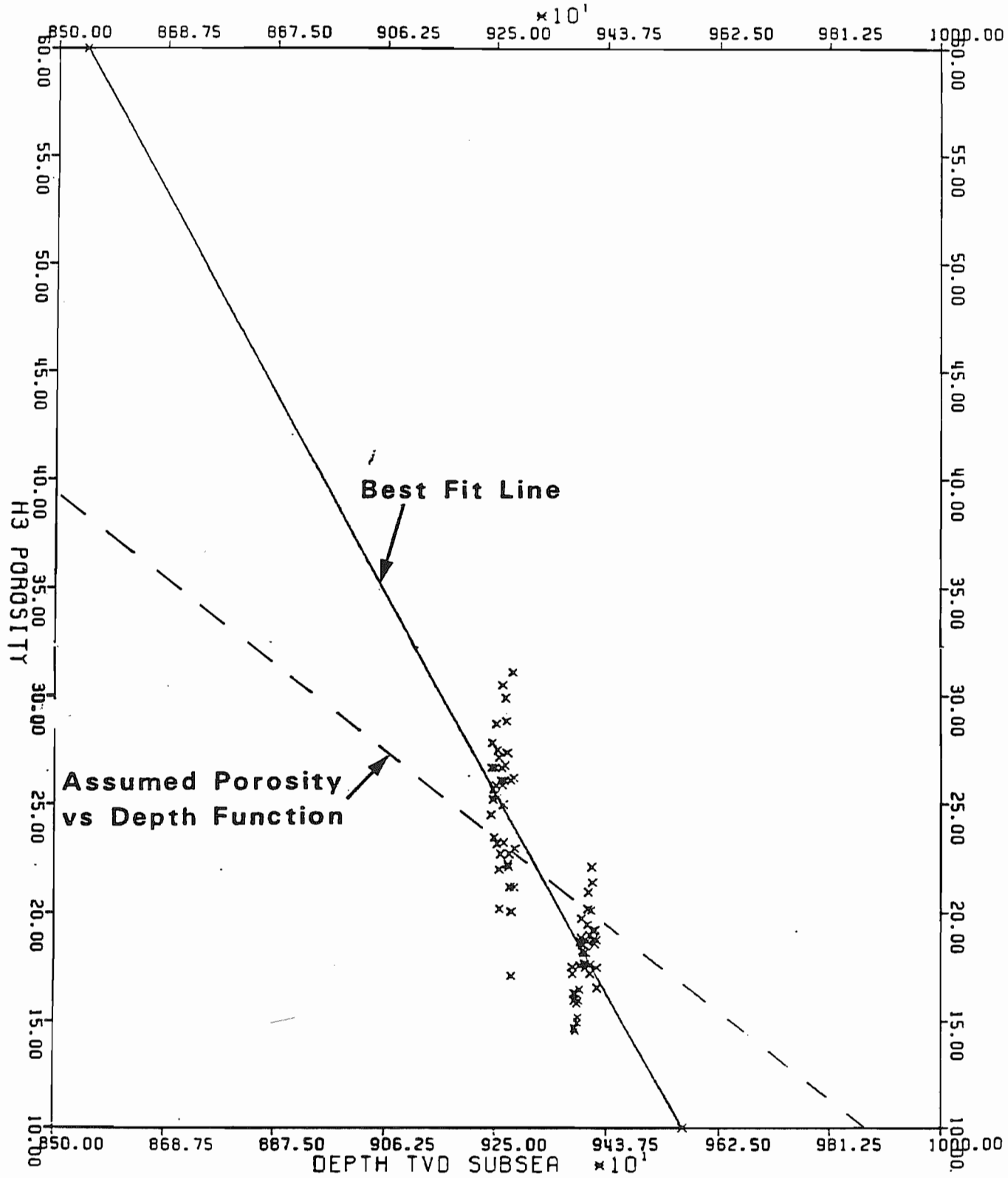


Ex. 3.15

HOD FIELD

H3 Porosity vs Depth

XYTOP= 1.00 XYBOT= 64.00 HOLGATE=NO DATE=05/17/85
SYMBOL=X CONDITIONS=UNCONDITIONAL CORRELATION QUALITY= 64.PERCNT
64 SYMBOL 'X' POINTS AVAIL AVERAGE DD = 9333.64 AVERAGE PORSTY= 21.36
BEST FIT LINE .. PORSTY= 481.52+-0.0493*DD ... DD = 9767.0+ -20.28*PORSTY
JOB NAME= . PLOT TAPE VOL. SER.=

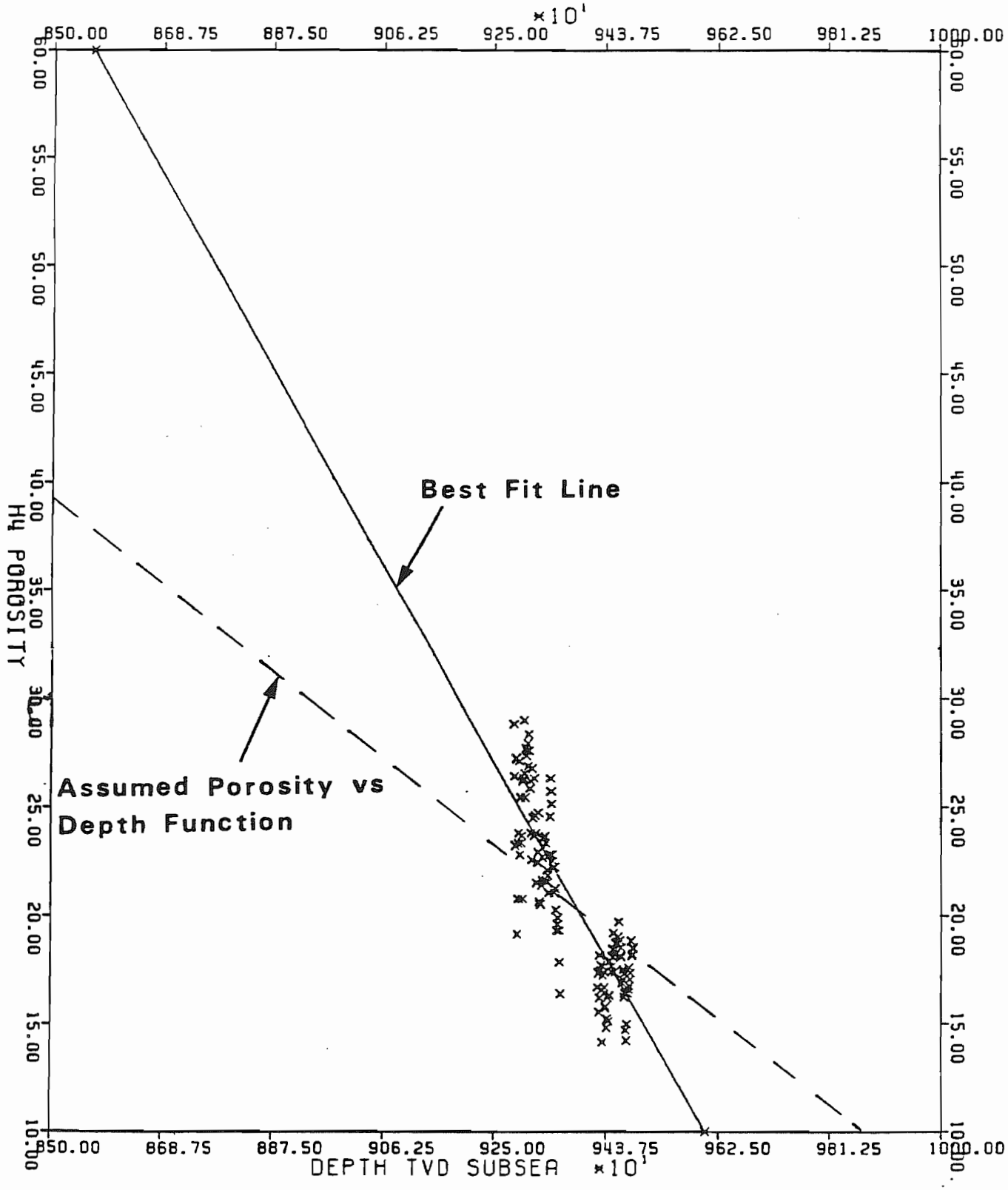


Ex. 3.16

HOD FIELD

H4 Porosity vs Depth

```
KYTOP=     1.00 XYBOT=  139.00 HOLGATE=NO    DATE=05/17/85
SYMBOL=X CONDITIONS=UNCONDITIONAL                    CORRELATION QUALITY= 72.PERCNT
   139 SYMBOL 'X' POINTS AVAIL AVERAGE DD     =  9379.77 AVERAGE PORSTY=    20.77
BEST FIT LINE .. PORSTY= 474.15+-0.0483*DD      ... DD     = 9809.5+ -20.69*PORSTY
JOB NAME=          .  PLOT TAPE VOL. SER.=
```

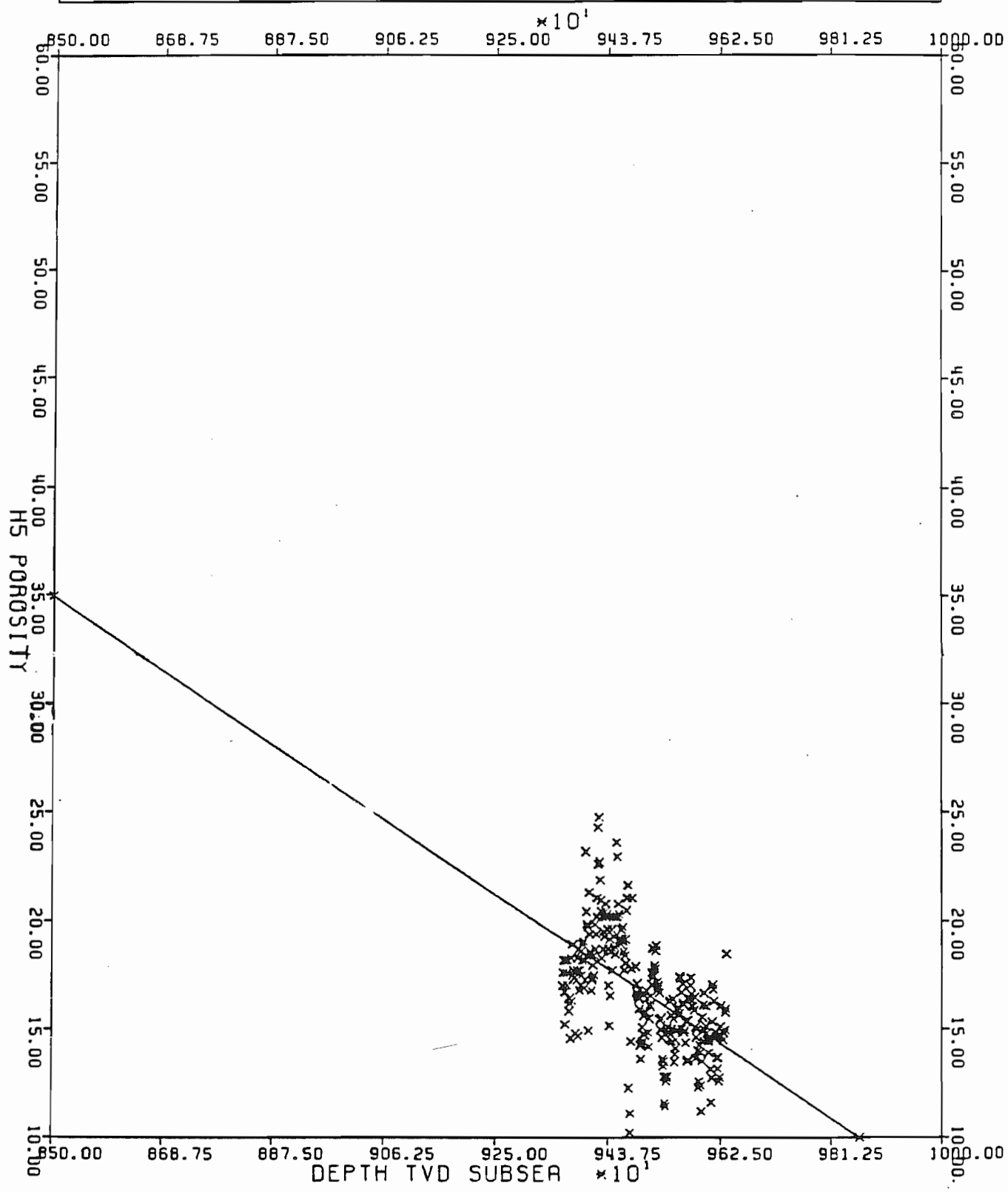


Ex. 3.17

HOD FIELD

H5 Porosity vs Depth

XYTOP= 1.00 XYBOT= 269.00 HOLGATE=NO DATE=05/17/85
SYMBOL=X CONDITIONS=UNCONDITIONAL CORRELATION QUALITY= 34.PERCNT
268 SYMBOL 'X' POINTS AVAIL AVERAGE DD = 9498.92 AVERAGE PORSTY= 16.63
BEST FIT LINE .. PORSTY= 190.80+-0.0183*DD ... DD = 10406.+ -54.54*PORSTY
JOB NAME= . PLOT TAPE VOL. SER.=

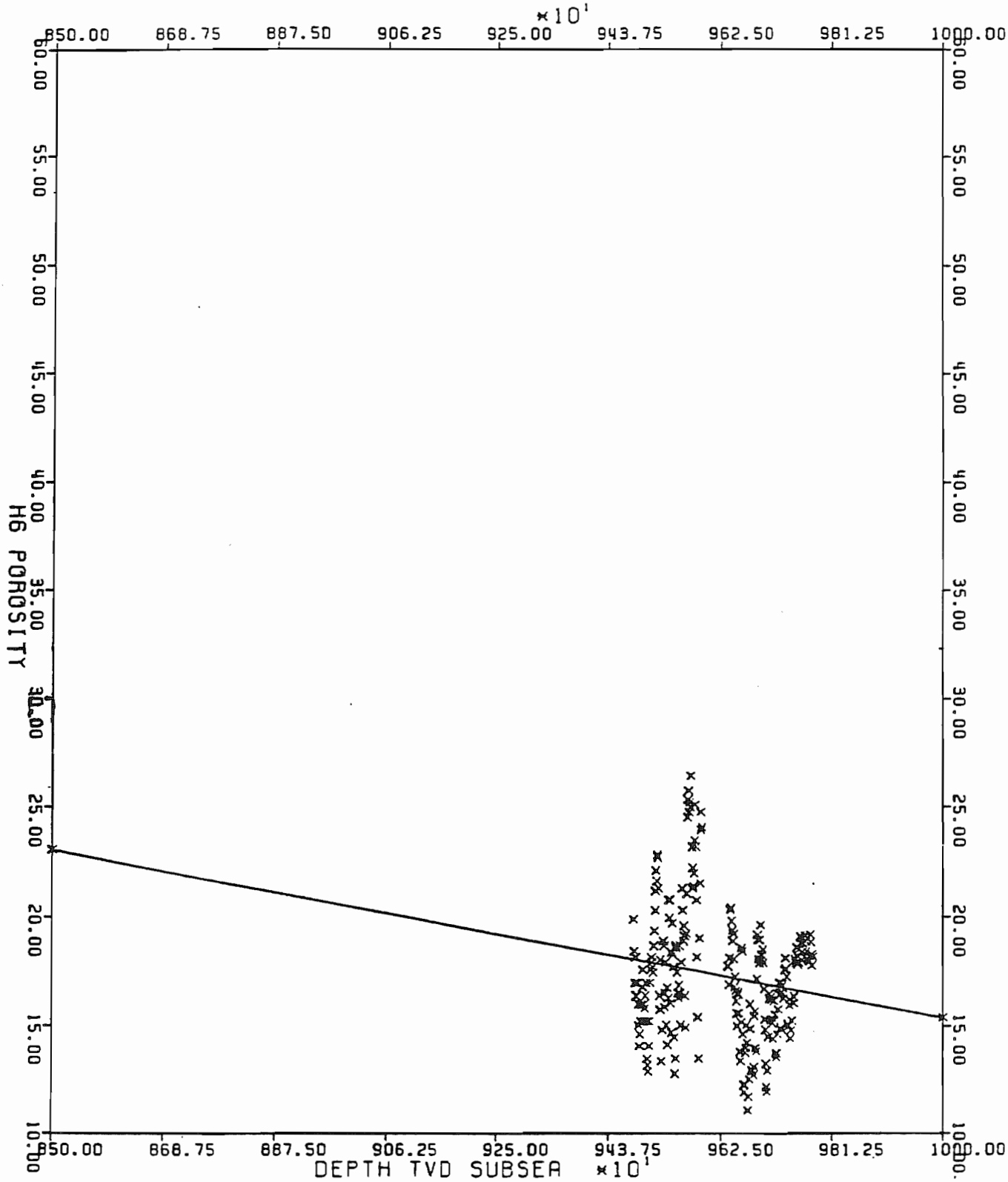


Ex. 3.18

HOD FIELD

H6 Porosity vs Depth

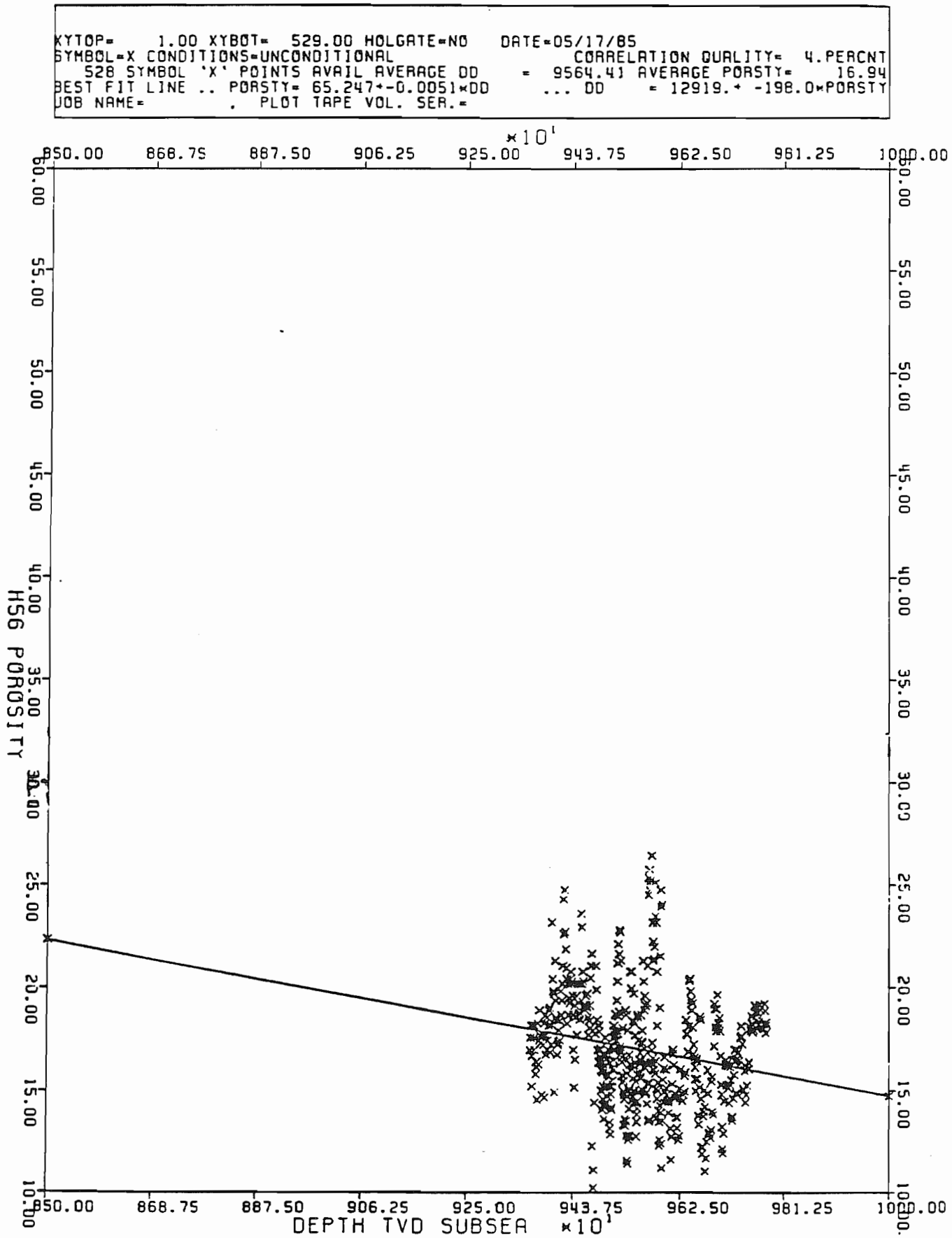
XYTOP= 1.00 XYBOT= 260.00 HOLGATE=NO DATE=05/17/85
SYMBOL=X CONDITIONS=UNCONDITIONAL CORRELATION QUALITY= 3.PERCNT
260 SYMBOL 'X' POINTS AVAIL AVERAGE DD = 9631.92 AVERAGE PORSTY= 17.26
BEST FIT LINE .. PORSTY= 66.393+-0.0051*DD ... DD = 13016.+ -196.0*PORSTY
JOB NAME= . PLOT TAPE VOL. SER.=



Ex. 3.19

HOD FIELD

H56 Porosity vs Depth

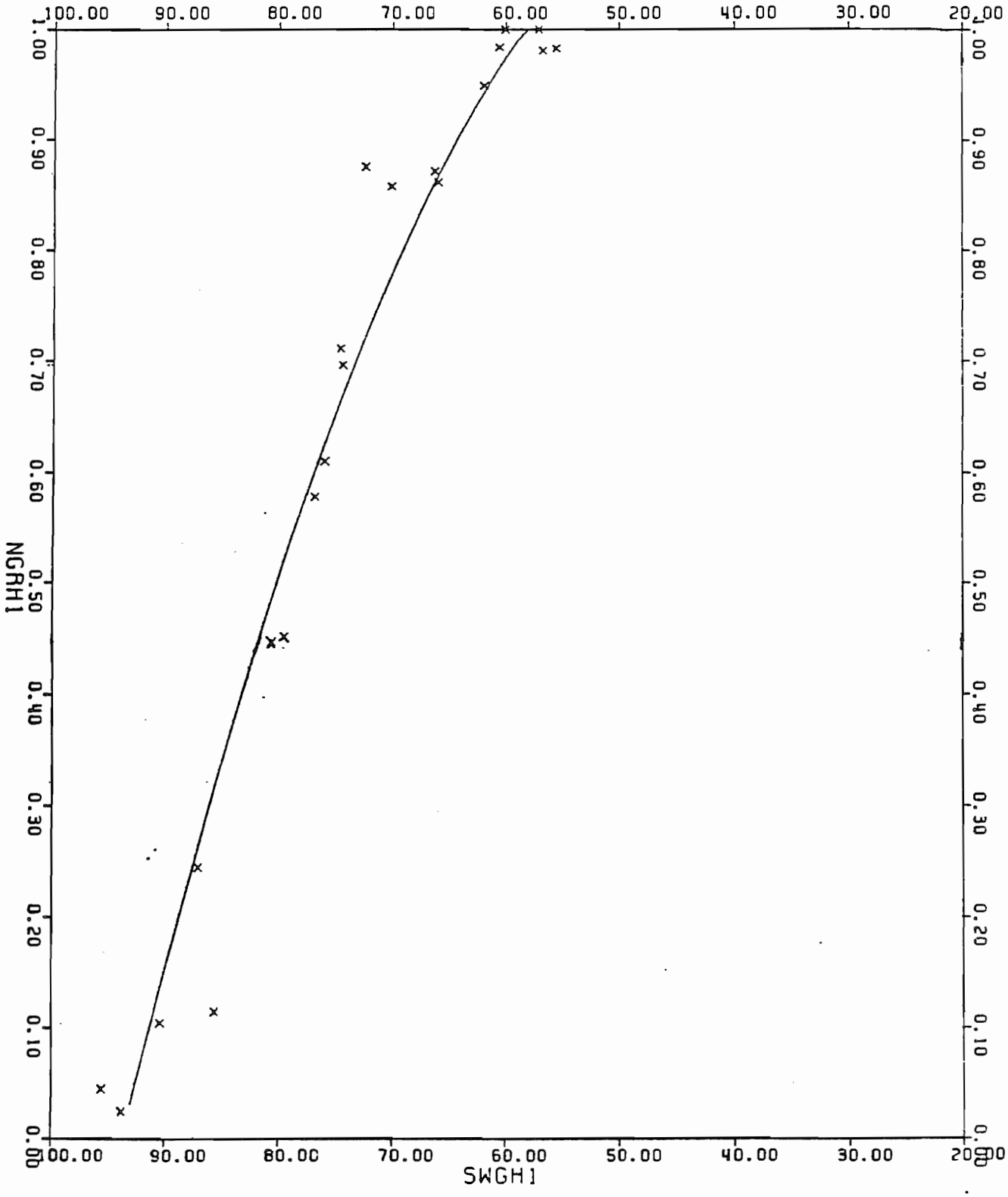


Ex. 3.20

VALHALL FIELD

Net to Gross Ratio vs Gross Sw – H1 Horizon

```
XYTOP=    2.00 XYBOT=   26.00 HOLGATE=NO   DATE=05/15/85
SYMBOL=X CONDITIONS=UNCONDITIONAL                    CORRELATION QUALITY= 96.PERCNT
    21 SYMBOL 'X' POINTS AVAIL AVERAGE SWGH1 =    73.36 AVERAGE NGRH1 =      0.64
2ND ORDER FIT .... NGRH1  =  0.5056 +  0.0313*SWGH1  + -0.0004*SWGH1 **2
JOB NAME=         .  PLOT TAPE VOL. SER.=
```

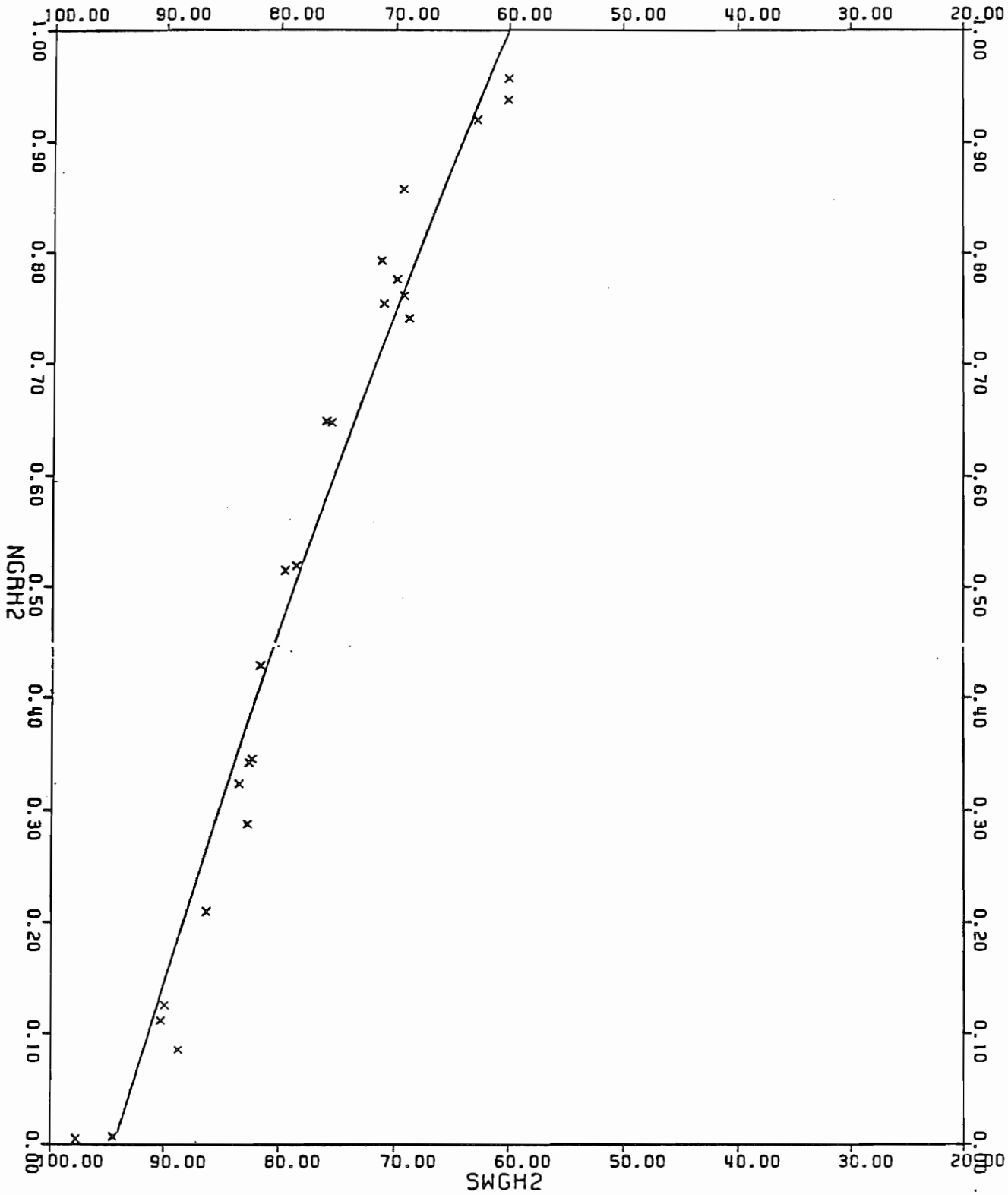


Ex. 3.21

VALHALL FIELD

Net to Gross Ratio vs Gross Sw – H2 Horizon

```
XYTOP=    1.00 XYBOT=   26.00 HOLGATE=NO   DATE=05/15/85
SYMBOL=X CONDITIONS=UNCONDITIONAL                    CORRELATION QUALITY= 97.PERCNT
   24 SYMBOL 'X' POINTS AVAIL AVERAGE SWGH2 =    78.02 AVERAGE NGRH2 =     0.50
2ND ORDER FIT .... NGRH2  =  1.8960 + -0.0058*SWGH2  + -0.0002*SWGH2 **2
JOB NAME=         .  PLOT TAPE VOL. SER.=
```

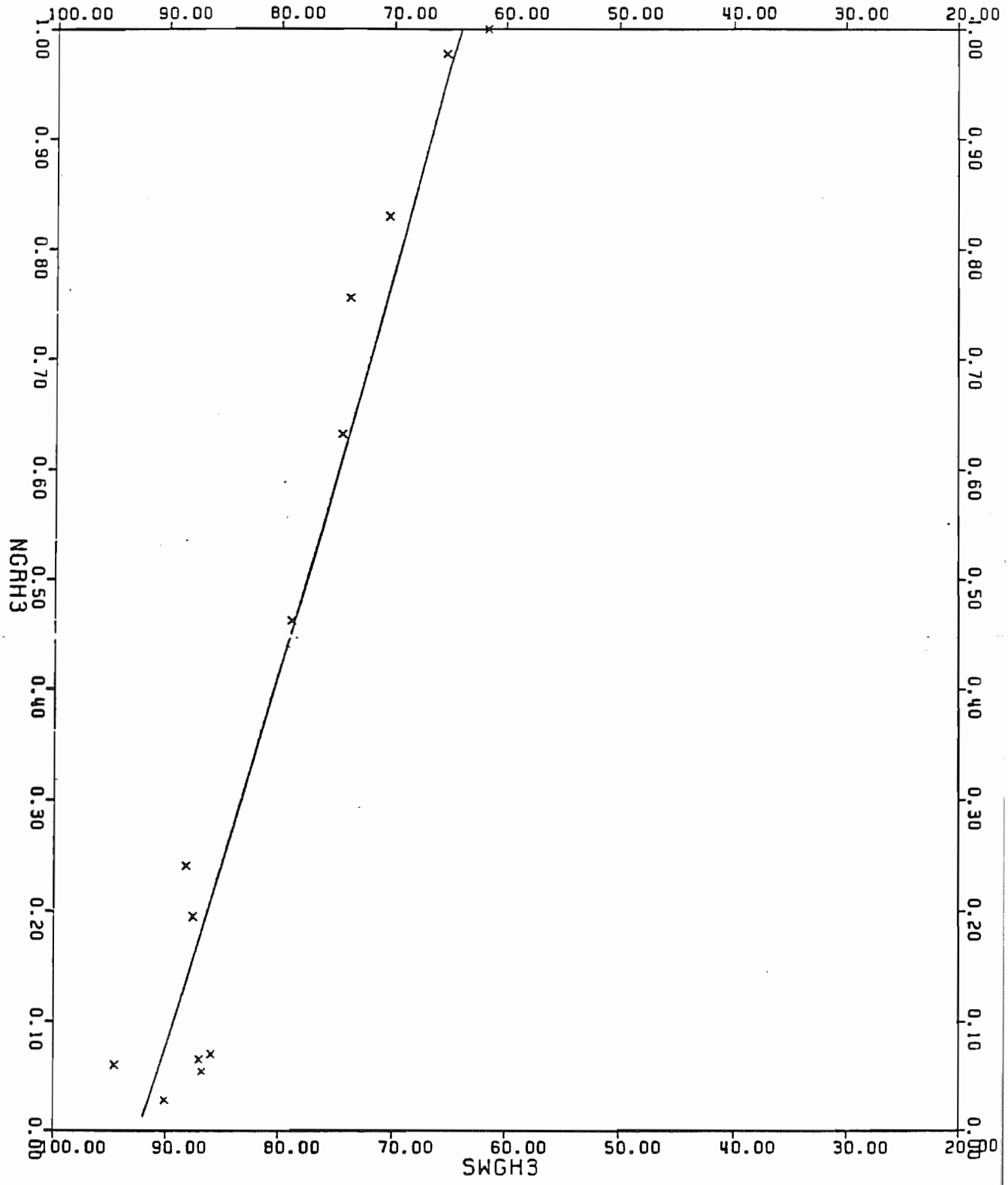


Ex. 3.22

VALHALL FIELD

Net to Gross Ratio vs Gross Sw – H3 Horizon

```
XYTOP=    2.00 XYBOT=   25.00 HOLGATE=NO    DATE=05/15/85
SYMBOL=X CONDITIONS=UNCONDITIONAL                    CORRELATION QUALITY= 94.PERCNT
    13 SYMBOL 'X' POINTS AVAIL AVERAGE SWGH3 =     80.39 AVERAGE NGRH3 =      0.41
2ND ORDER FIT .... NGRH3  =  4.0273 + -0.0554*SWGH3  +  0.0001*SWGH3 **2
JOB NAME=         .  PLOT TAPE VOL. SER.=
```

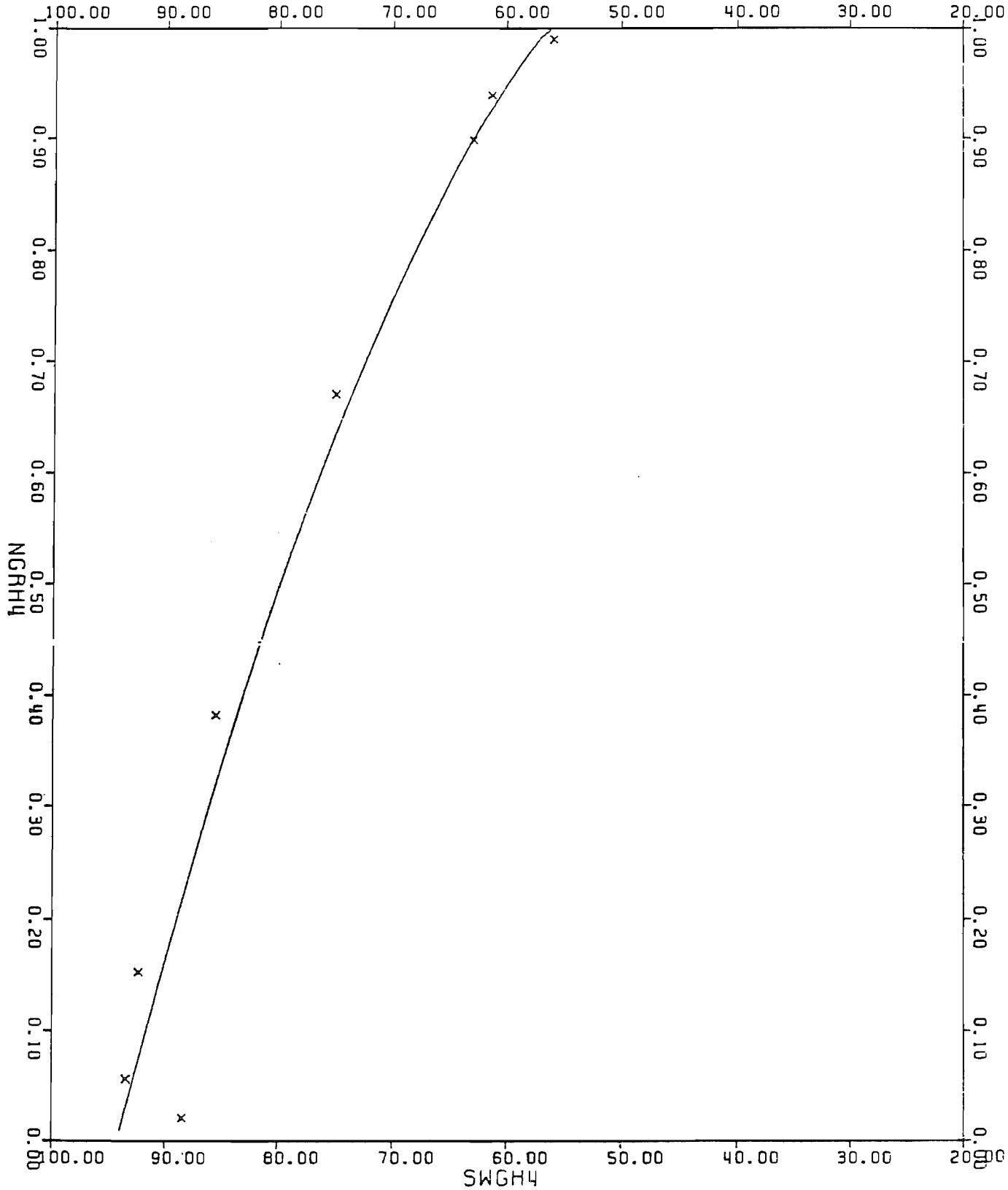


Ex. 3.23

VALHALL FIELD

Net to Gross Ratio vs Gross Sw – H4 Horizon

```
XYTOP=    2.00 XYBOT=   23.00 HOLGATE=NO   DATE=05/15/85
SYMBOL=X CONDITIONS=UNCONDITIONAL                    CORRELATION QUALITY= 96.PERCNT
     8 SYMBOL 'X' POINTS AVAIL AVERAGE SWGH4 =    76.87 AVERAGE NGRH4 =     0.51
2ND ORDER FIT .... NGRH4  =  0.6226 +  0.0265*SWGH4  + -0.0004*SWGH4 **2
JOB NAME=         .  PLOT TAPE VOL. SER.=                .
```

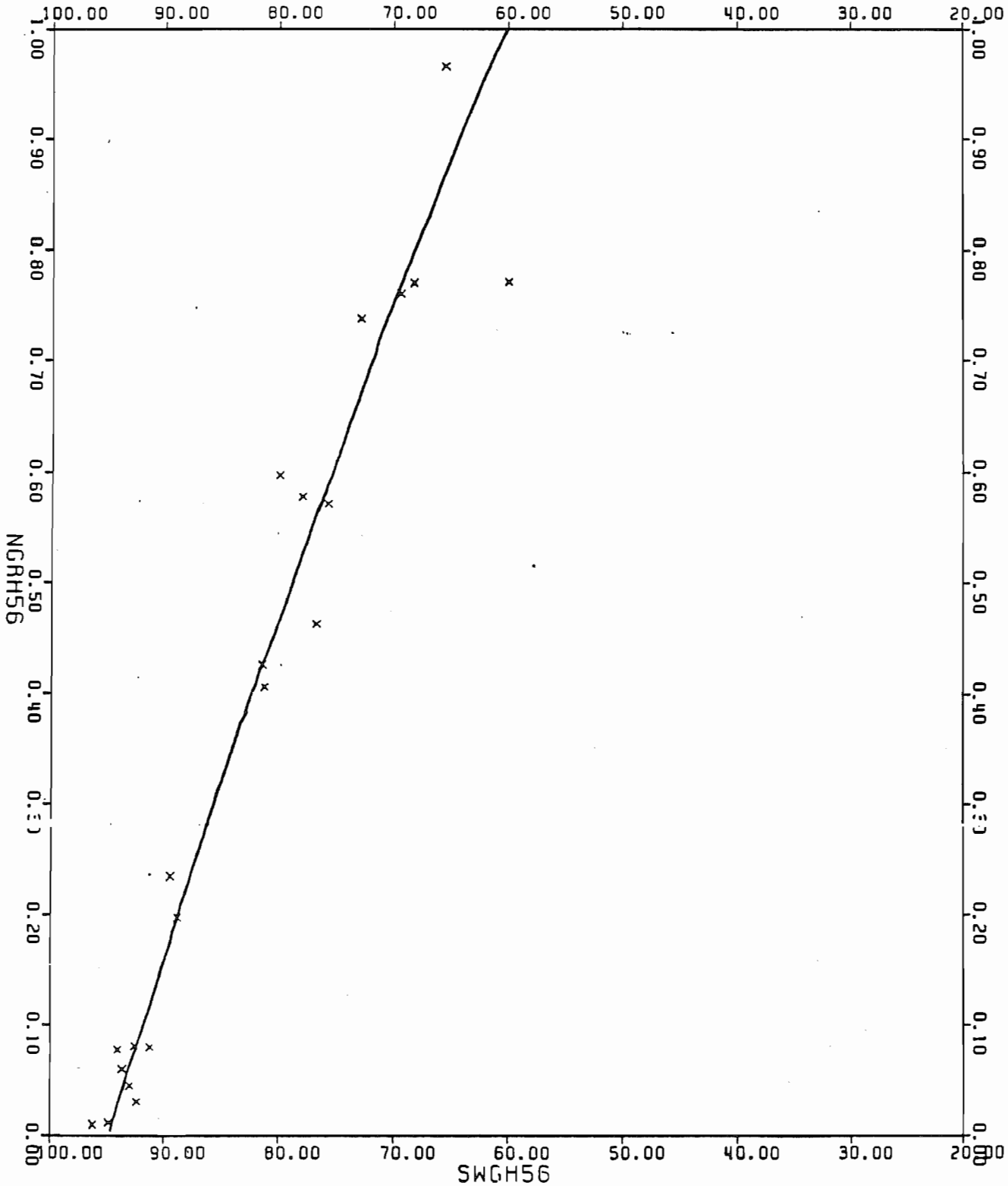


Ex. 3.24

VALHALL FIELD

Net to Gross Ratio vs Gross Sw – H56 Horizon

XYTOP= 1.00 XYBOT= 25.00 HOLGATE=NO DATE=05/15/85
SYMBOL=X CONDITIONS=UNCONDITIONAL
21 SYMBOL 'X' POINTS AVAIL AVERAGE SWGH56= 82.62 AVERAGE NGRH56= 0.37
JOB NAME= . PLOT TAPE VOL. SER.=

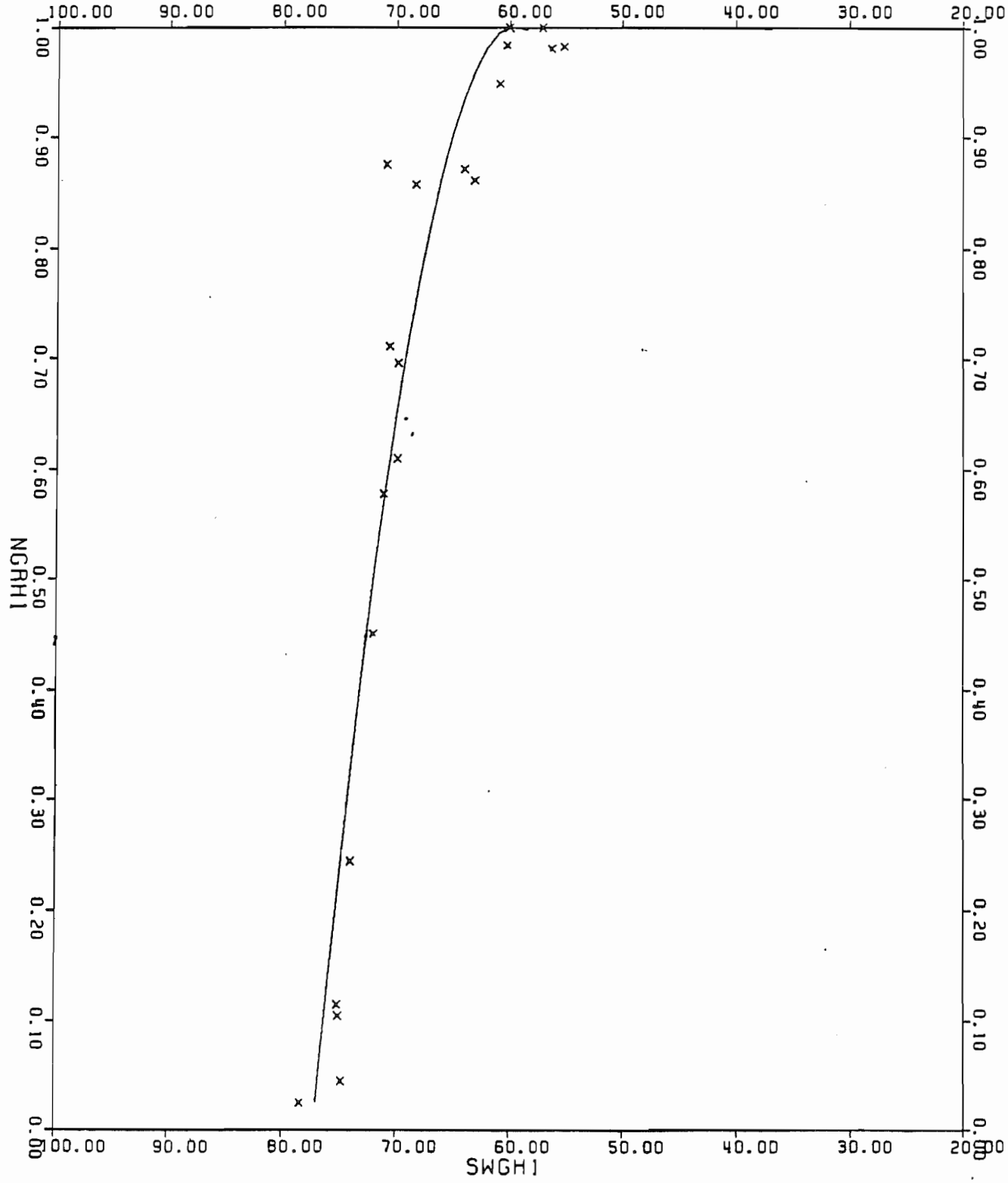


Ex. 3.25

VALHALL FIELD

Net to Gross Ratio vs Net Sw – H1 Horizon

```
XYTOP=     2.00 XYBOT=    26.00 HOLGATE=NO    DATE=05/15/85
SYMBOL=X CONDITIONS=UNCONDITIONAL                    CORRELATION QUALITY= 90.PERCNT
    21 SYMBOL 'X' POINTS AVAIL AVERAGE SWGH1 =     67.66 AVERAGE NGRH1 =       0.64
2ND ORDER FIT .... NGRH1   =  -10.19 +  0.3767*SWGH1  + -0.0032*SWGH1 **2
JOB NAME=            PLOT TAPE VOL. SER.=
```

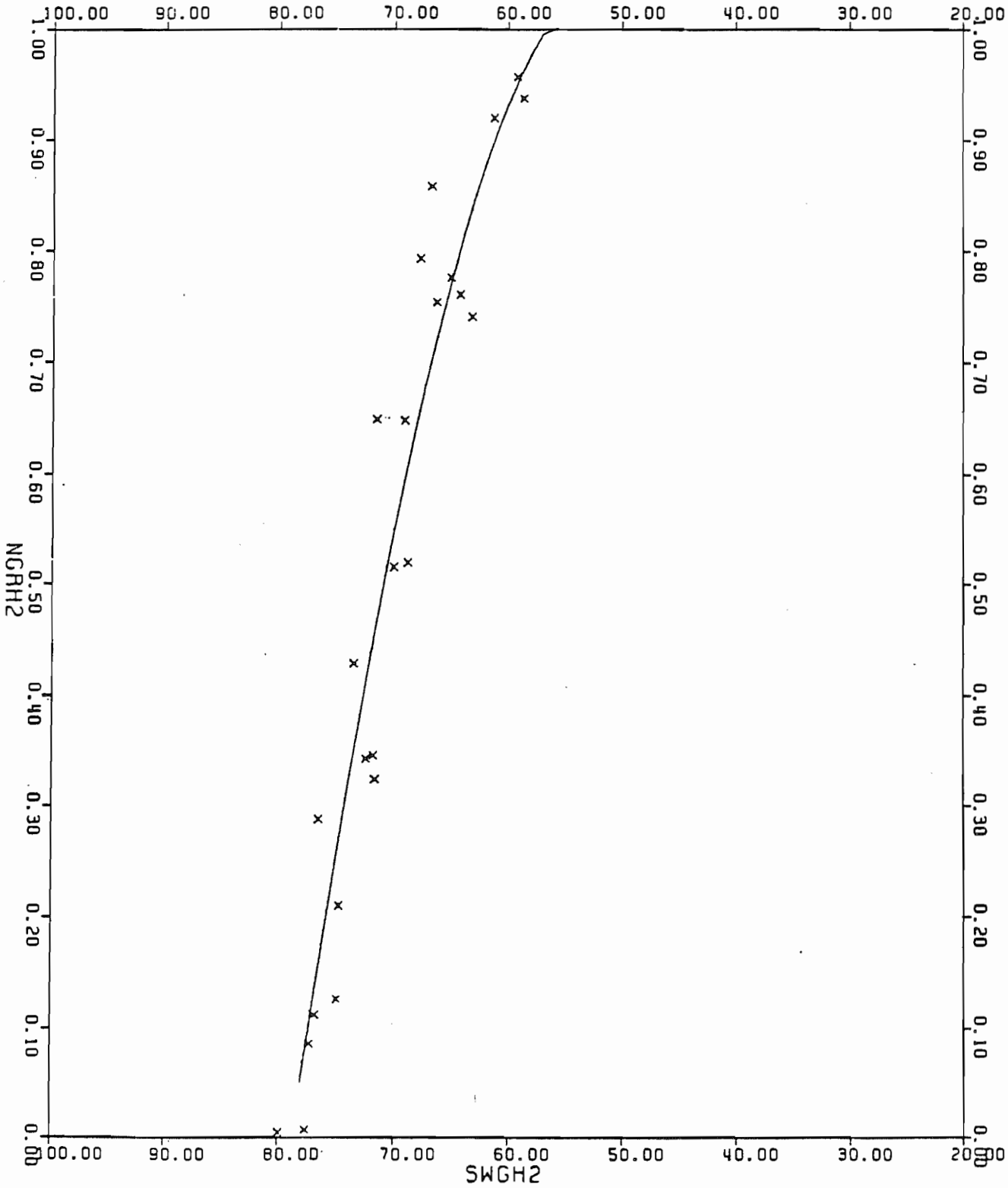


Ex. 3.26

VALHALL FIELD

Net to Gross Ratio vs Net Sw – H2 Horizon

```
XYTOP=    1.00 XYBOT=   26.00 HOLGATE=NO   DATE=05/15/85
SYMBOL=X CONDITIONS=UNCONDITIONAL                    CORRELATION QUALITY= 91.PERCNT
    24 SYMBOL 'X' POINTS AVAIL AVERAGE SWGH2 =    69.98 AVERAGE NGRH2 =     0.50
2ND ORDER FIT .... NGRH2  =  -2.347 +  0.1344*SWGH2  + -0.0013*SWGH2 **2
JOB NAME=         .  PLOT TAPE VOL. SER.=
```

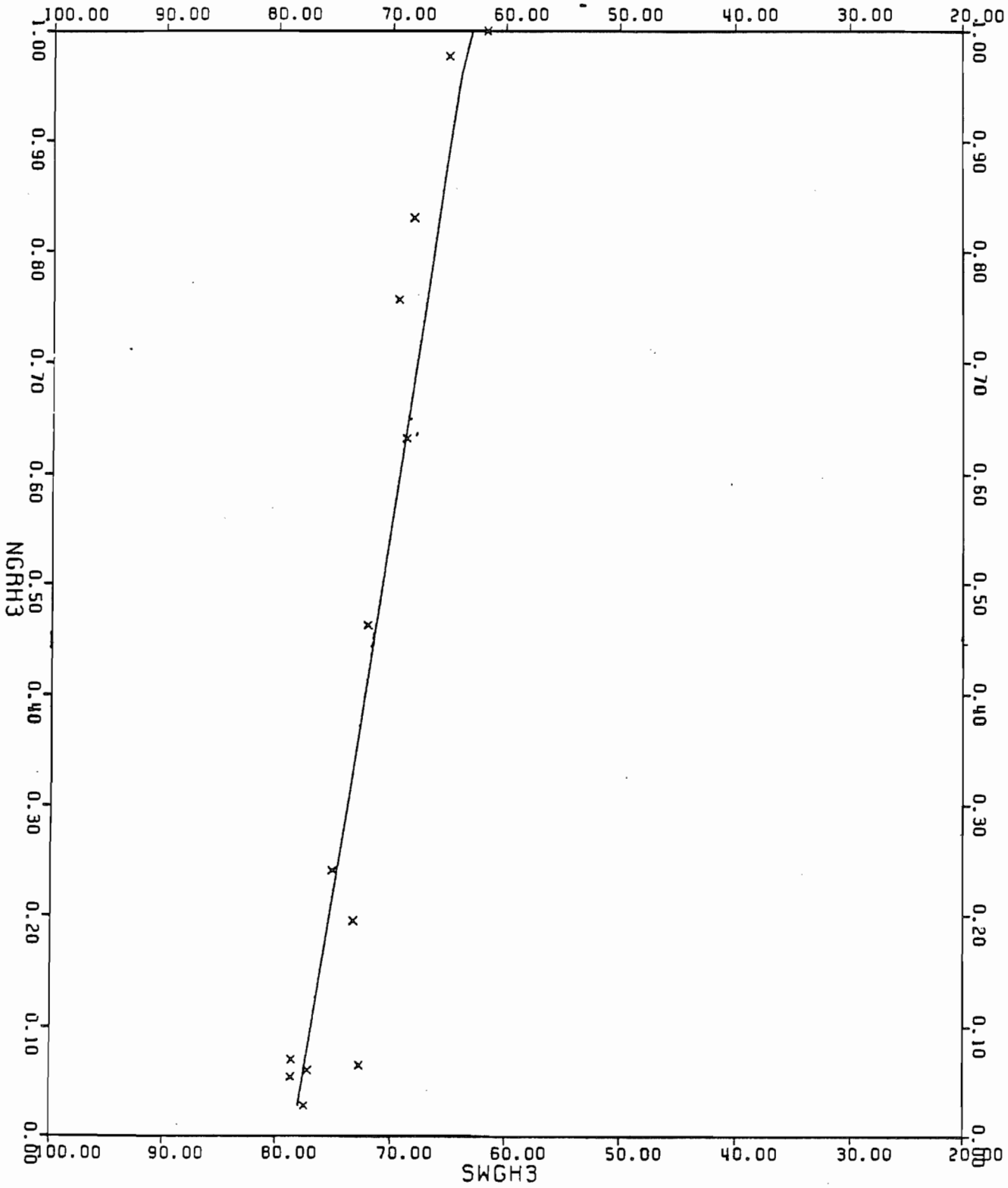


Ex. 3.27

VALHALL FIELD

Net to Gross Ratio vs Net Sw – H3 Horizon

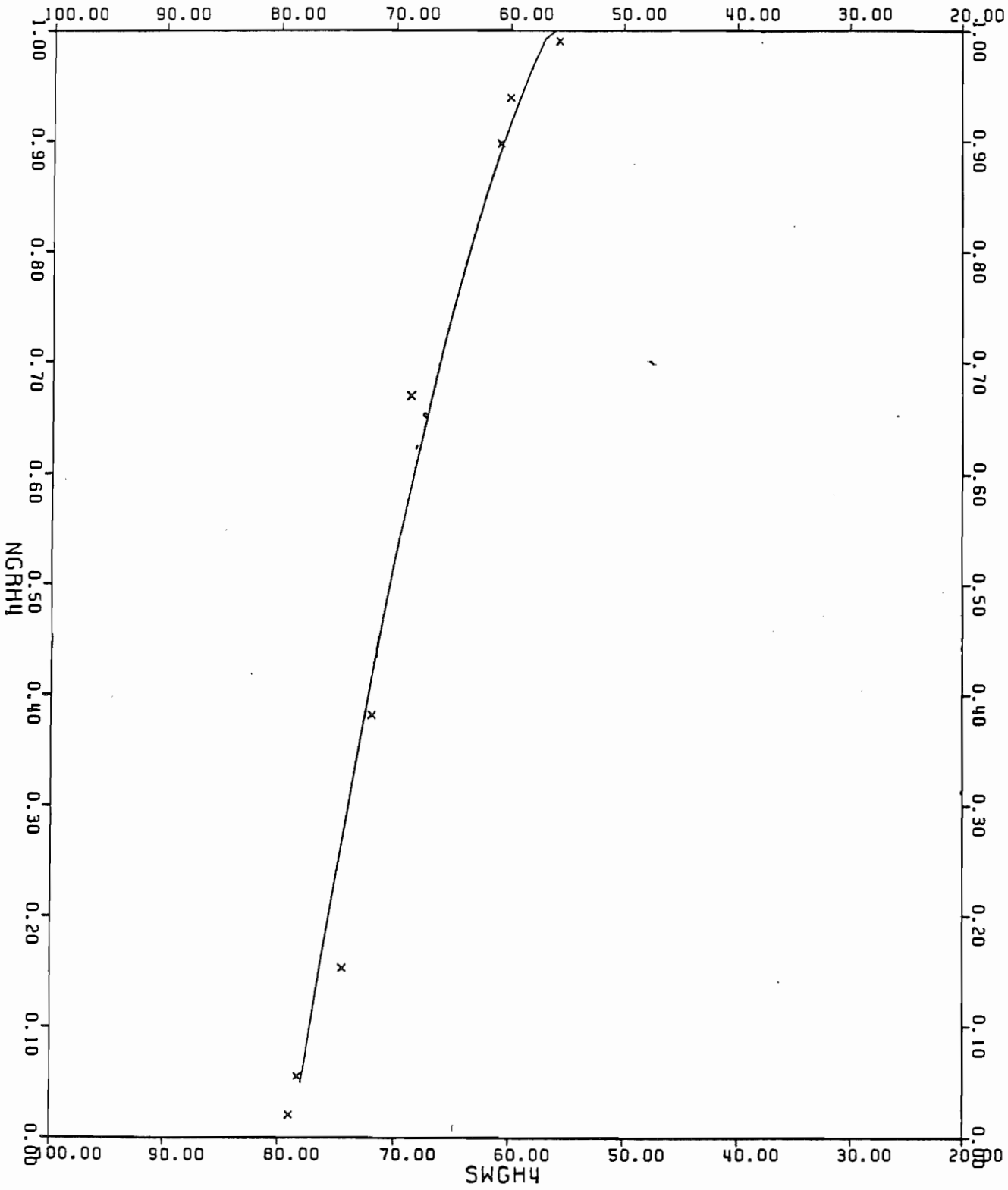
```
XYTOP=    2.00 XYBOT=   25.00 HOLGATE=NO    DATE=05/15/85
SYMBOL=X CONDITIONS=UNCONDITIONAL                    CORRELATION QUALITY= 88.PERCNT
    13 SYMBOL 'X' POINTS AVAIL AVERAGE SWGH3 =    72.16 AVERAGE NGRH3 =     0.41
2ND ORDER FIT .... NGRH3  =  5.8091 + -0.0834*SWGH3  +  0.0001*SWGH3 **2
JOB NAME=        .  PLOT TAPE VOL. SER.=
```



Ex. 3.28

VALHALL FIELD
Net to Gross Ratio vs Net Sw – H4 Horizon

```
XYTOP=    2.00 XYBOT=   23.00 HOLGATE=NO   DATE=05/15/85
SYMBOL=X CONDITIONS=UNCONDITIONAL                    CORRELATION QUALITY= 98.PERCNT
     6 SYMBOL 'X' POINTS AVAIL AVERAGE SWGH4 =    68.65 AVERAGE NGRH4 =     0.51
2ND ORDER FIT .... NGRH4  =  -1.305 +  0.1025*SWGH4  + -0.0011*SWGH4 **2
JOB NAME=         .  PLOT TAPE VOL. SER.=
```

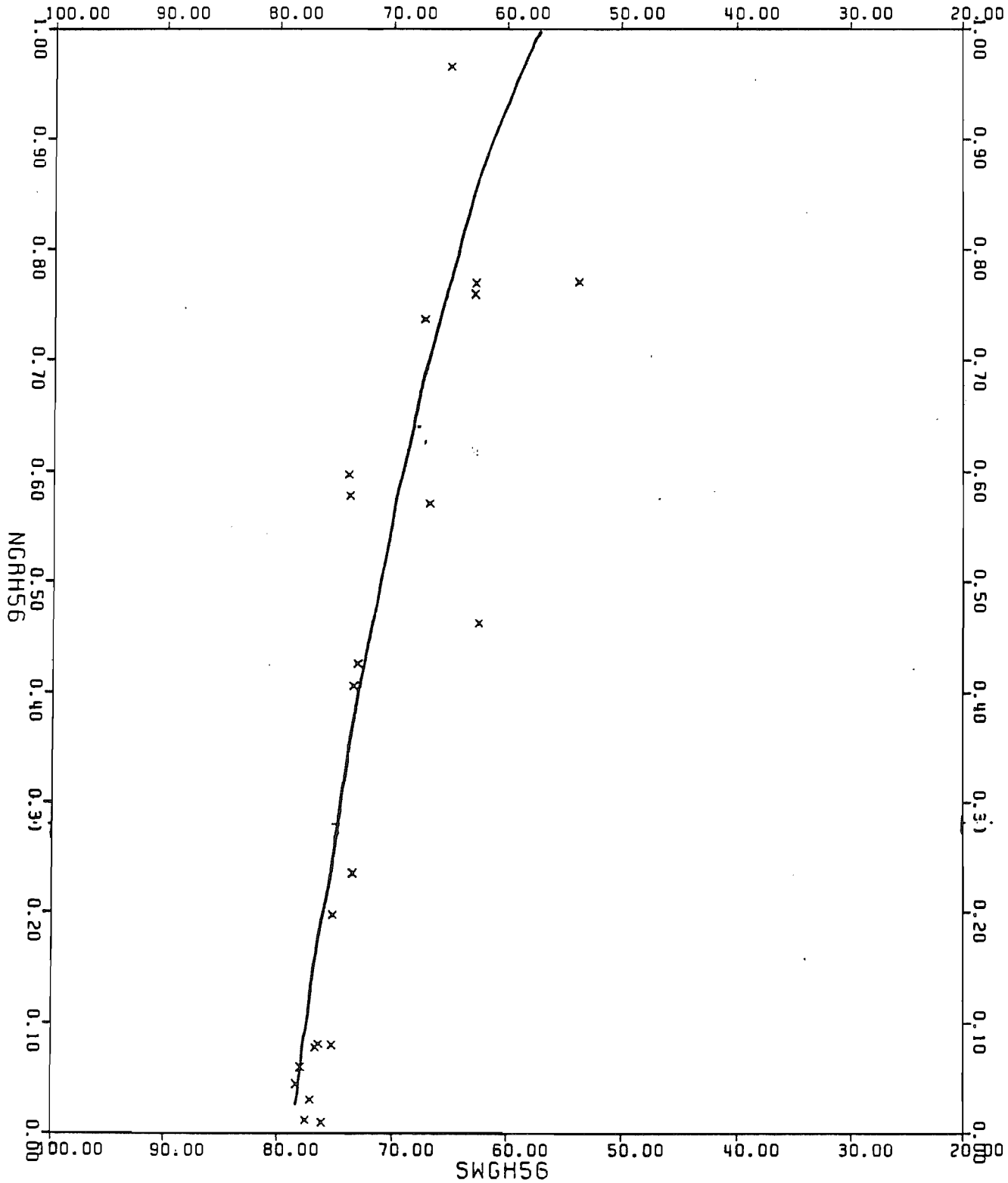


Ex. 3.29

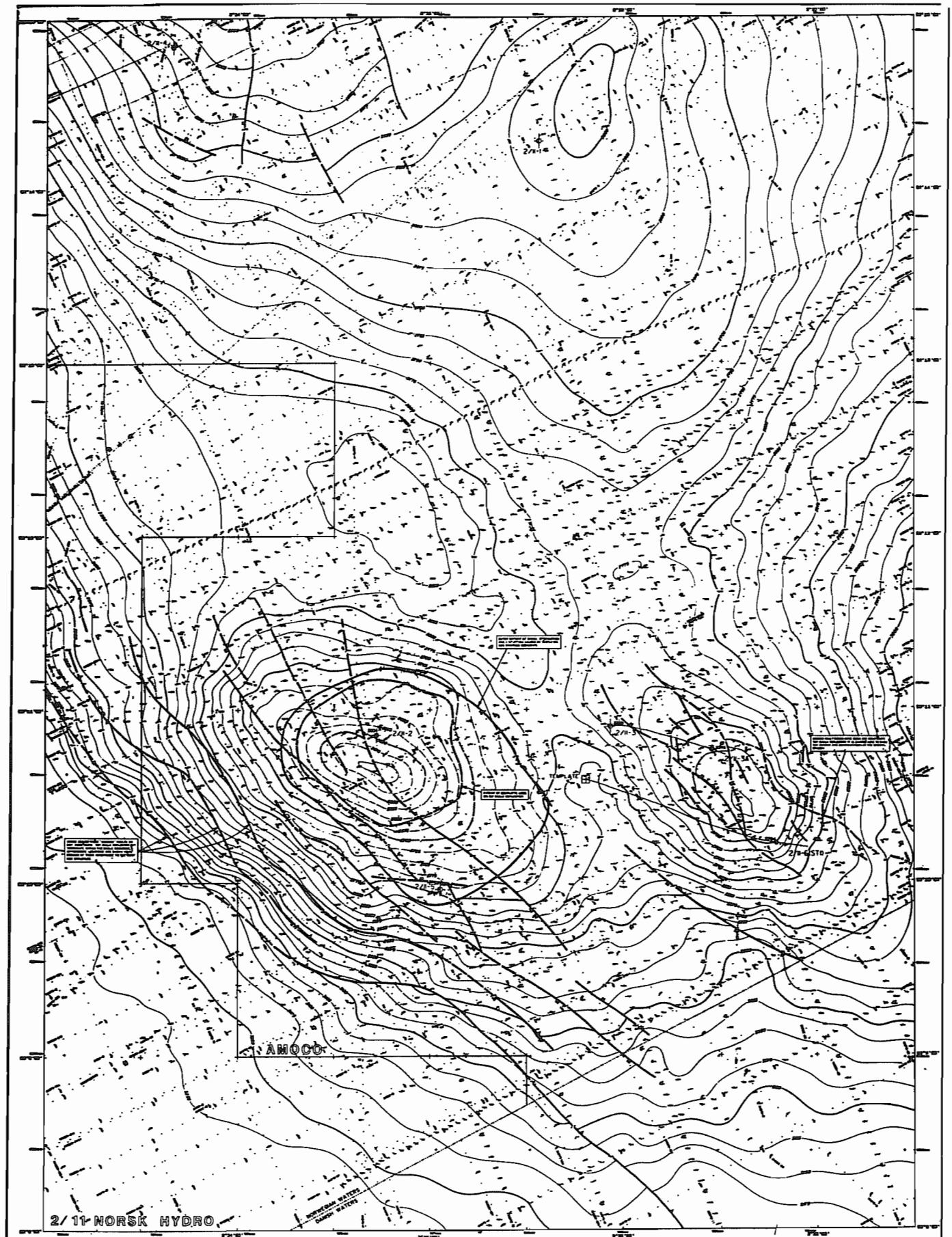
VALHALL FIELD

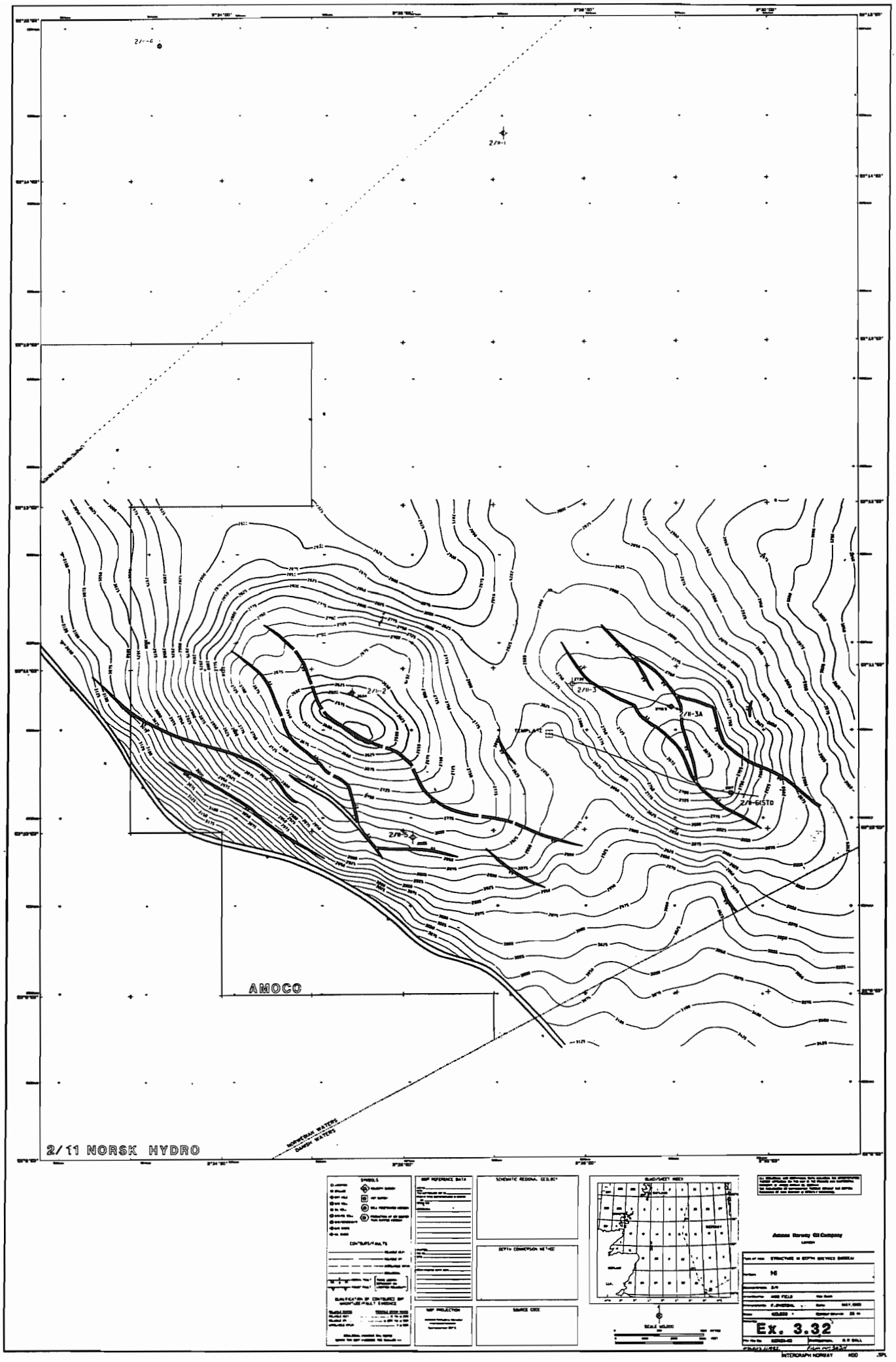
Net to Gross Ratio vs Net Sw - H56 Horizon

XYTOP= 1.00 XYBOT= 25.00 HOLGATE=NO DATE=05/15/85
SYMBOL=X CONDITIONS=UNCONDITIONAL
21 SYMBOL 'X' POINTS AVAIL AVERAGE SWGH56= 71.39 AVERAGE NGRH56= 0.37
JOB NAME= PLOT TAPE VOL. SER.=

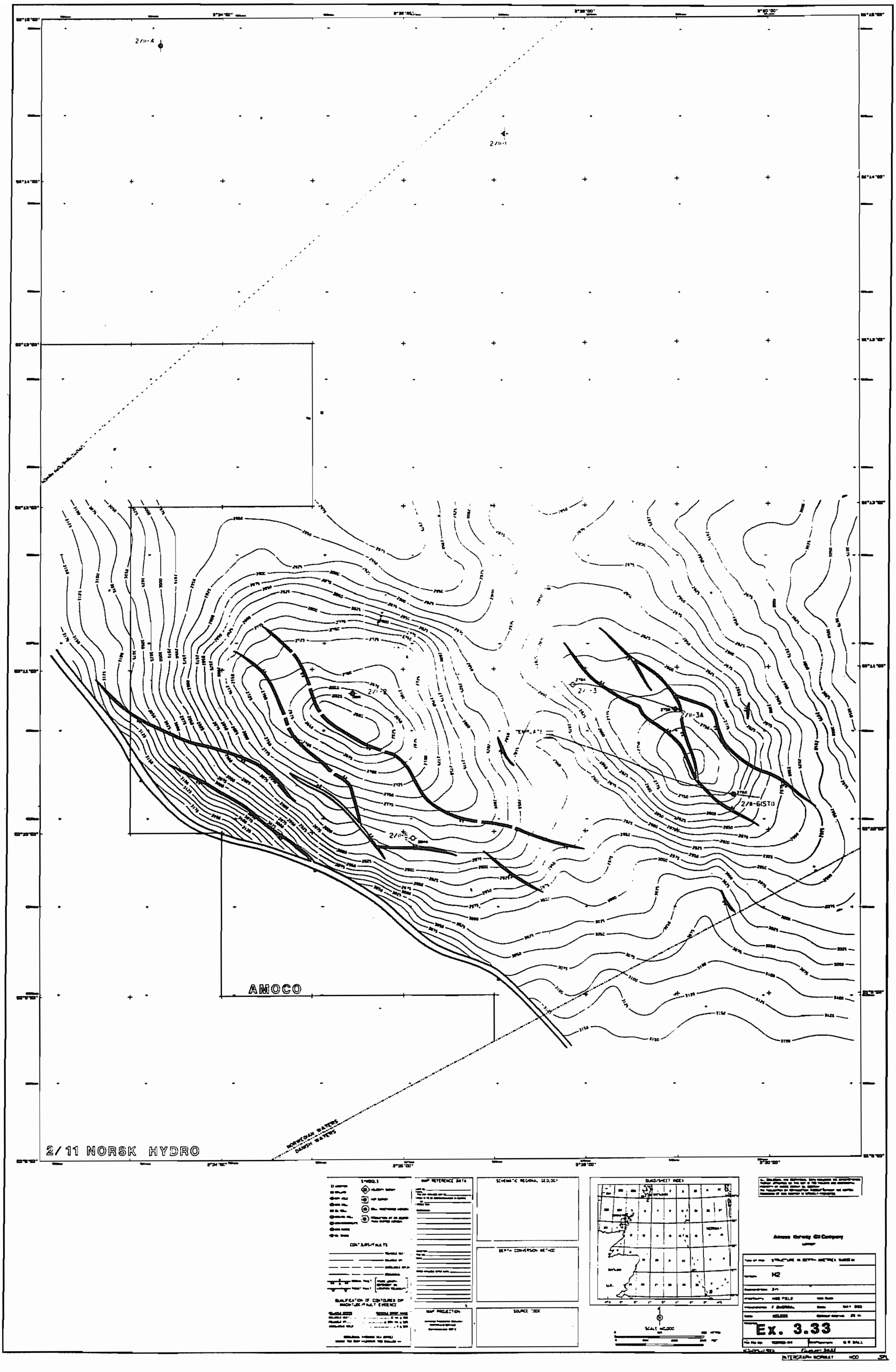


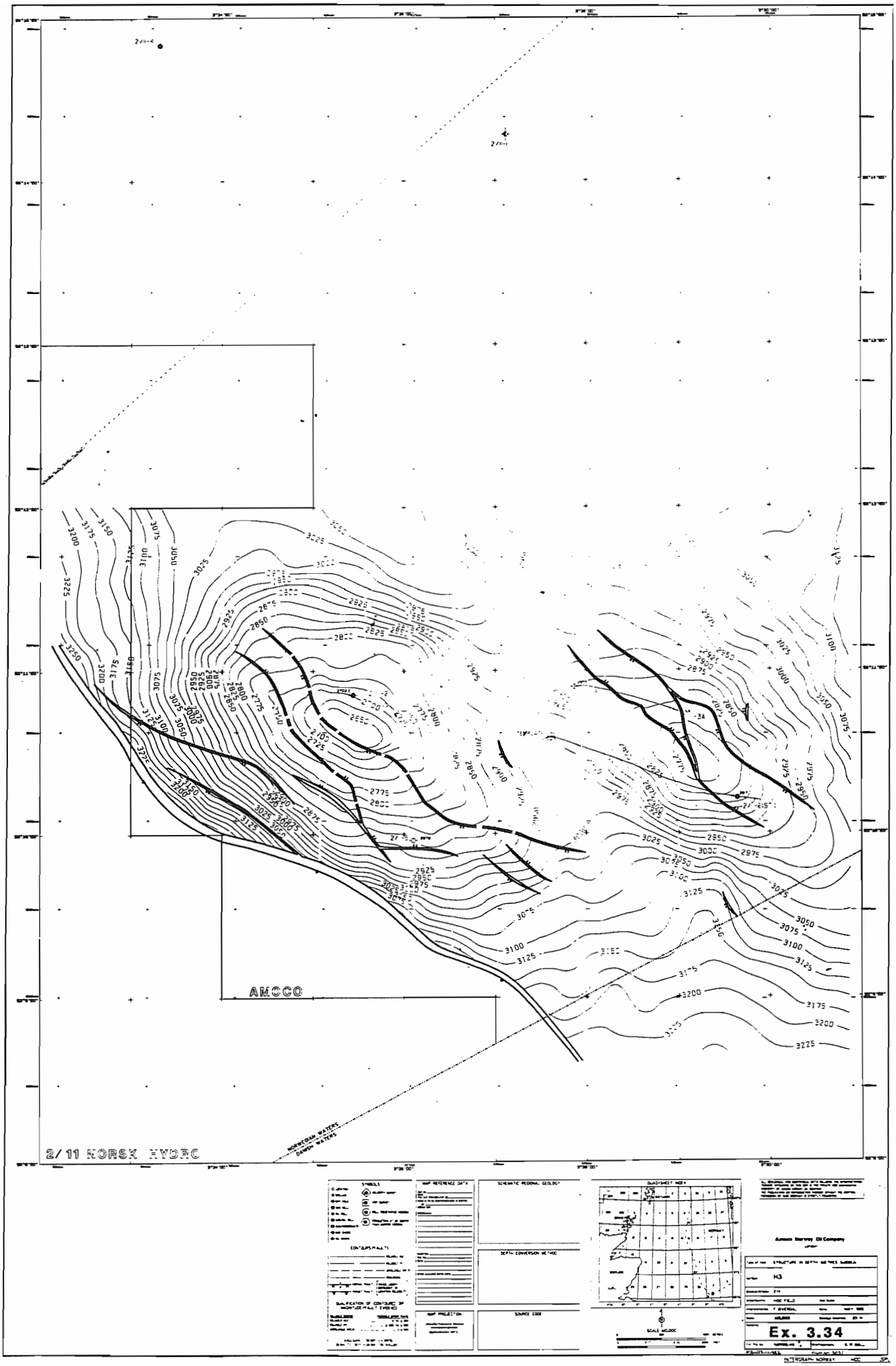
Ex. 3.30

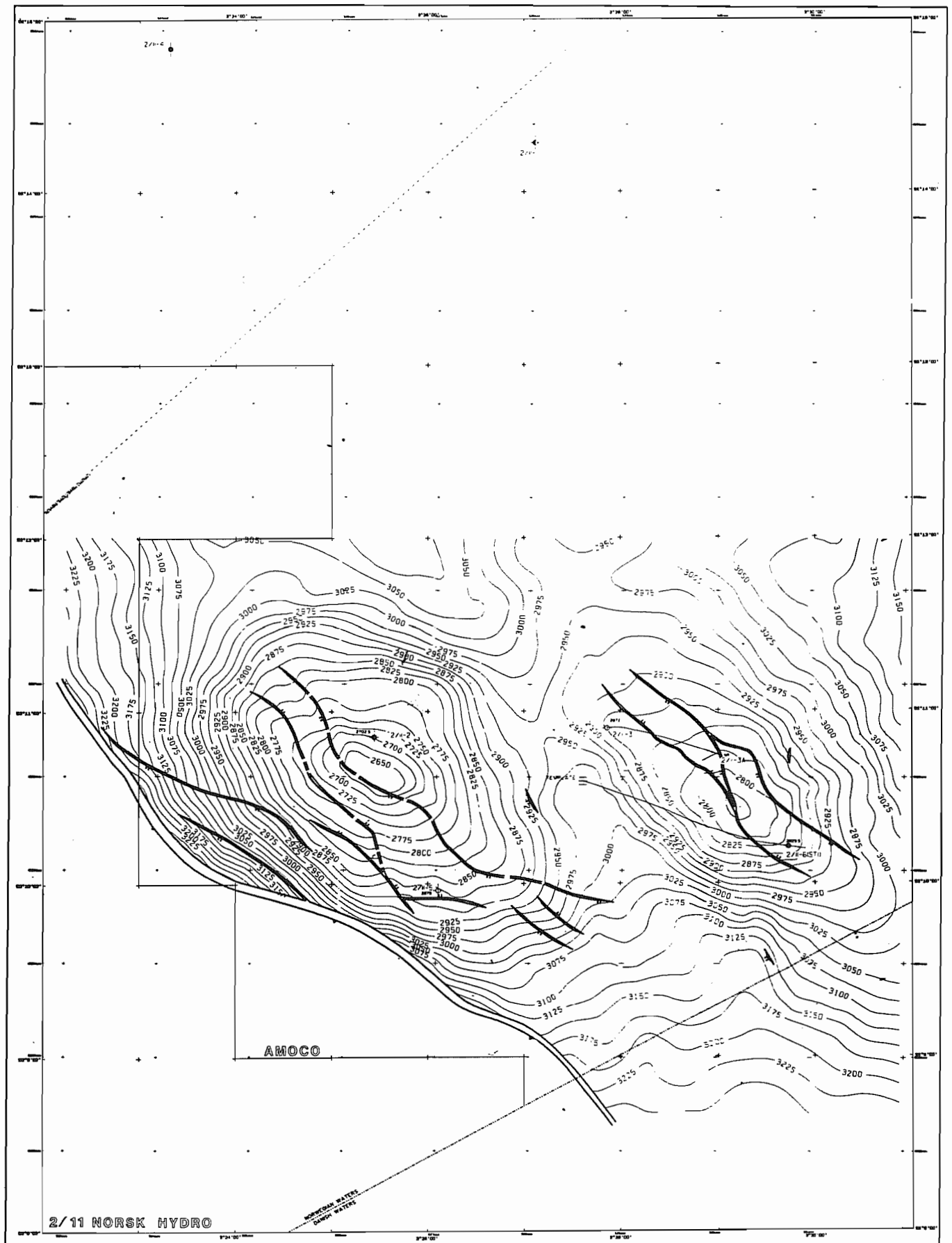

2/11-NORSK HYDRO
AMOCO
NORWEGIAN WATERS
DANISH WATERS
TEMPLATE
2/11-2
2/11-3
2/11-GSTD
CLASS 1
Ex. 3.31

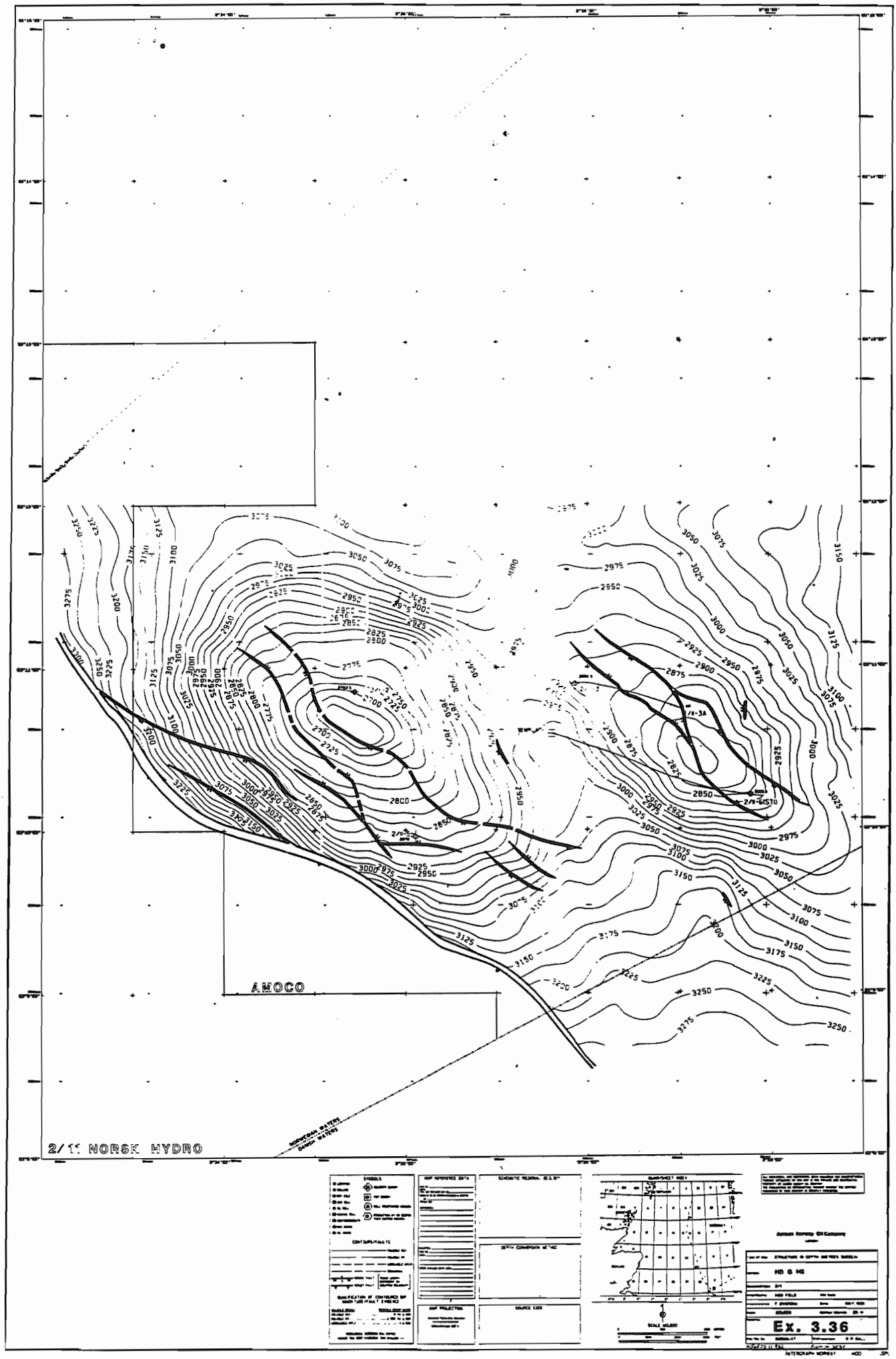

2/11-2
2/11-3
2/11-3A
2/11-6(ST0
TEMPLATE
AMOCO
2/11 NORSK HYDRO
NORWEGIAN WATERS
DANISH WATERS

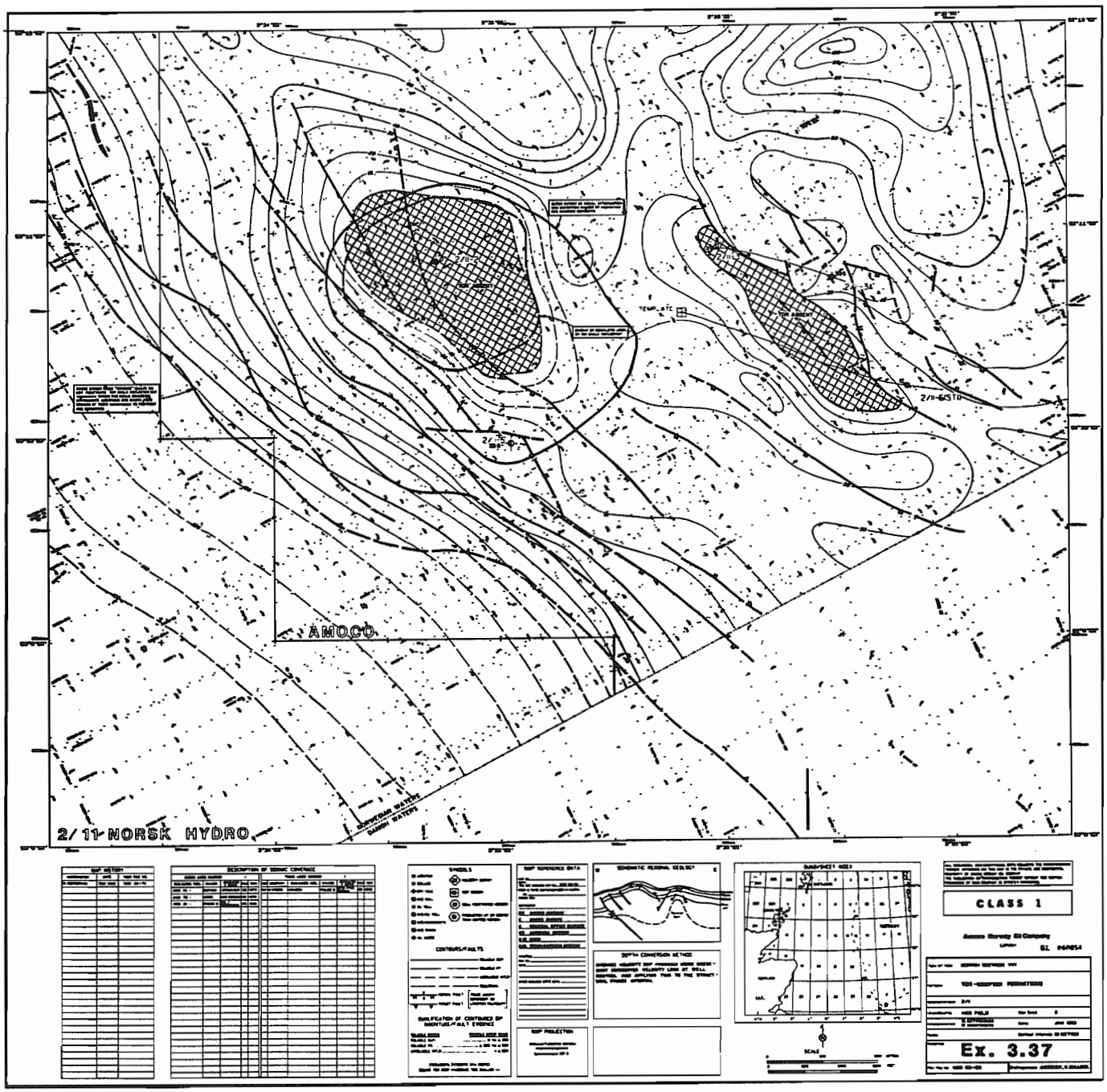
Ex. 3.32

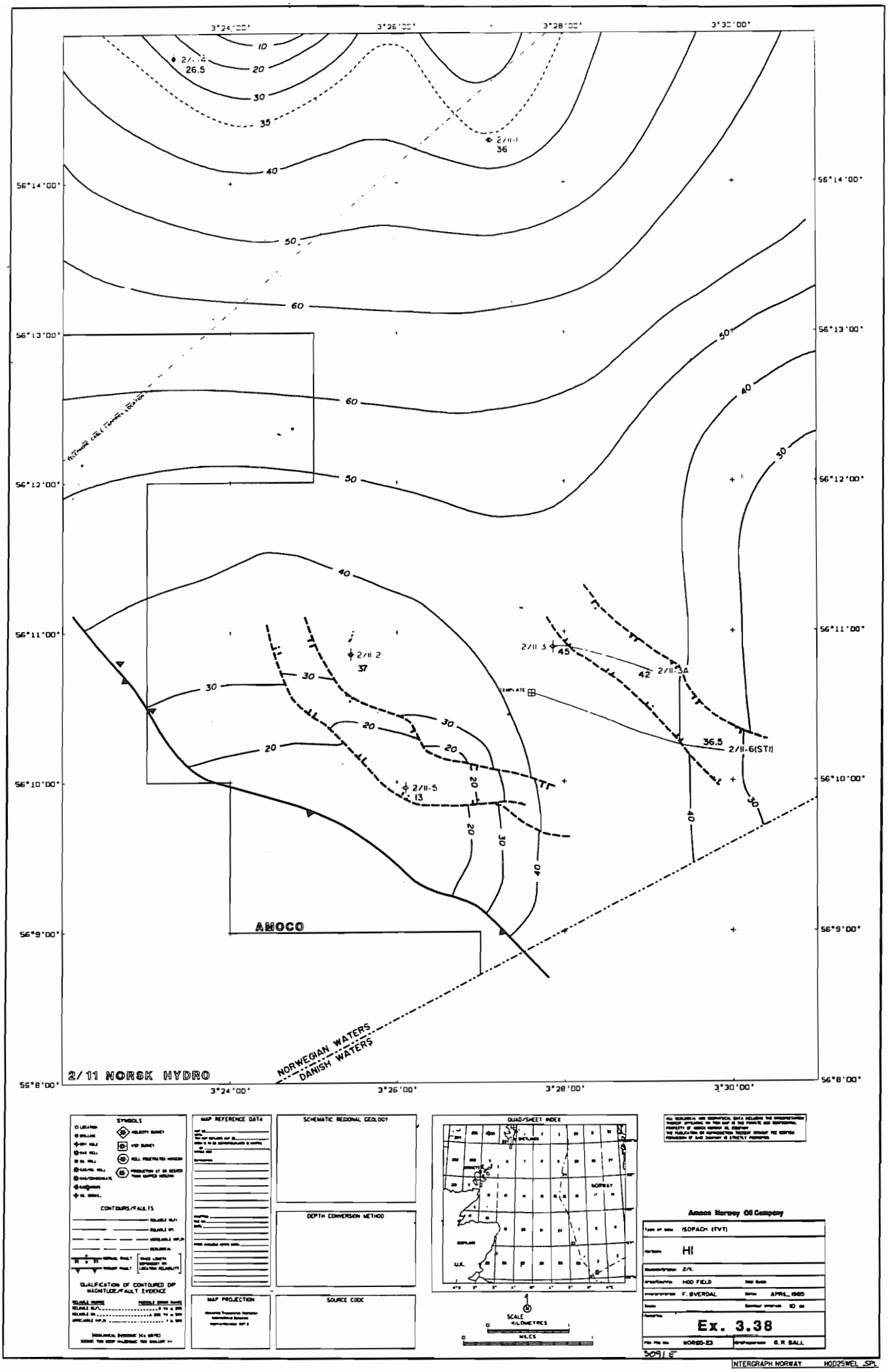

2/11-4
2/11-3A
2/11-6(ST1)
AMOCO
2/11 NORSK HYDRO
NORWEGIAN WATERS
DANISH WATERS
SYMBOLS
H2
Ex. 3.33
INTERGRAPH NORWAY


AMOCO
2/11 NORSK HYDRO
NORWEGIAN WATERS
DANISH WATERS
SCHEMATIC REGIONAL GEOLOGY
DEPTH CONVERSION METHOD
SOURCE DATA
Amoco Norway Oil Company
H3
Ex. 3.34


AMOCO
2/11 NORSK HYDRO
NORWEGIAN WATERS
DANISH WATERS
Ex. 3.35


AMOCO
2/11 NORSK HYDRO
NORWEGIAN WATERS
DANISH WATERS
Ex. 3.36


AMOCO
2/11 NORSK HYDRO
NORWEGIAN WATERS
DANISH WATERS
CLASS 1
Ex. 3.37



SYMBOLS

CONTOURS/FAULTS

QUALIFICATION OF CONTOURED DIP MAGNITUDE/FAULT EVIDENCE

MAP REFERENCE DATA

MAP PROJECTION

SCHEMATIC REGIONAL GEOLOGY

DEPTH CONVERSION METHOD

SOURCE CODE

QUAD/SHEET INDEX

SCALE KILOMETRES MILES

Amoco Norway Oil Company

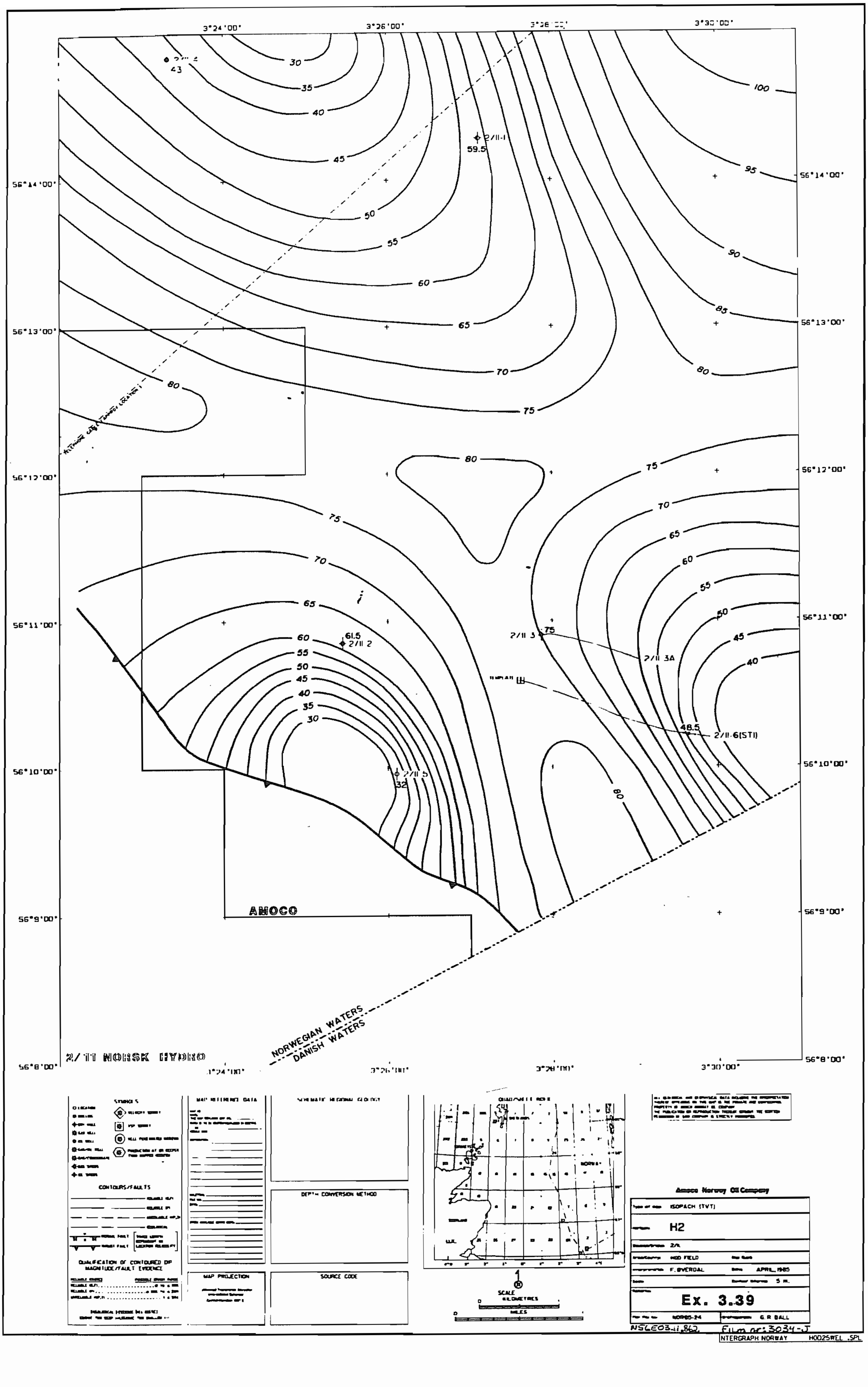
Type of Map	ISOPACH (TVT)
Horizon	HI
Block/Graticule	2/11
Area/Country	HOD FIELD
Interpretation	F. ØVERDAL
Date	APRIL, 1985
Scale	
Remarks	

Ex. 3.38

File No. NORSS-23 Draughtsperson G. R. BALL

5091E

INTERGRAPH NORWAY HOD25WEL.SPL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56°9'00"
56°8'00"
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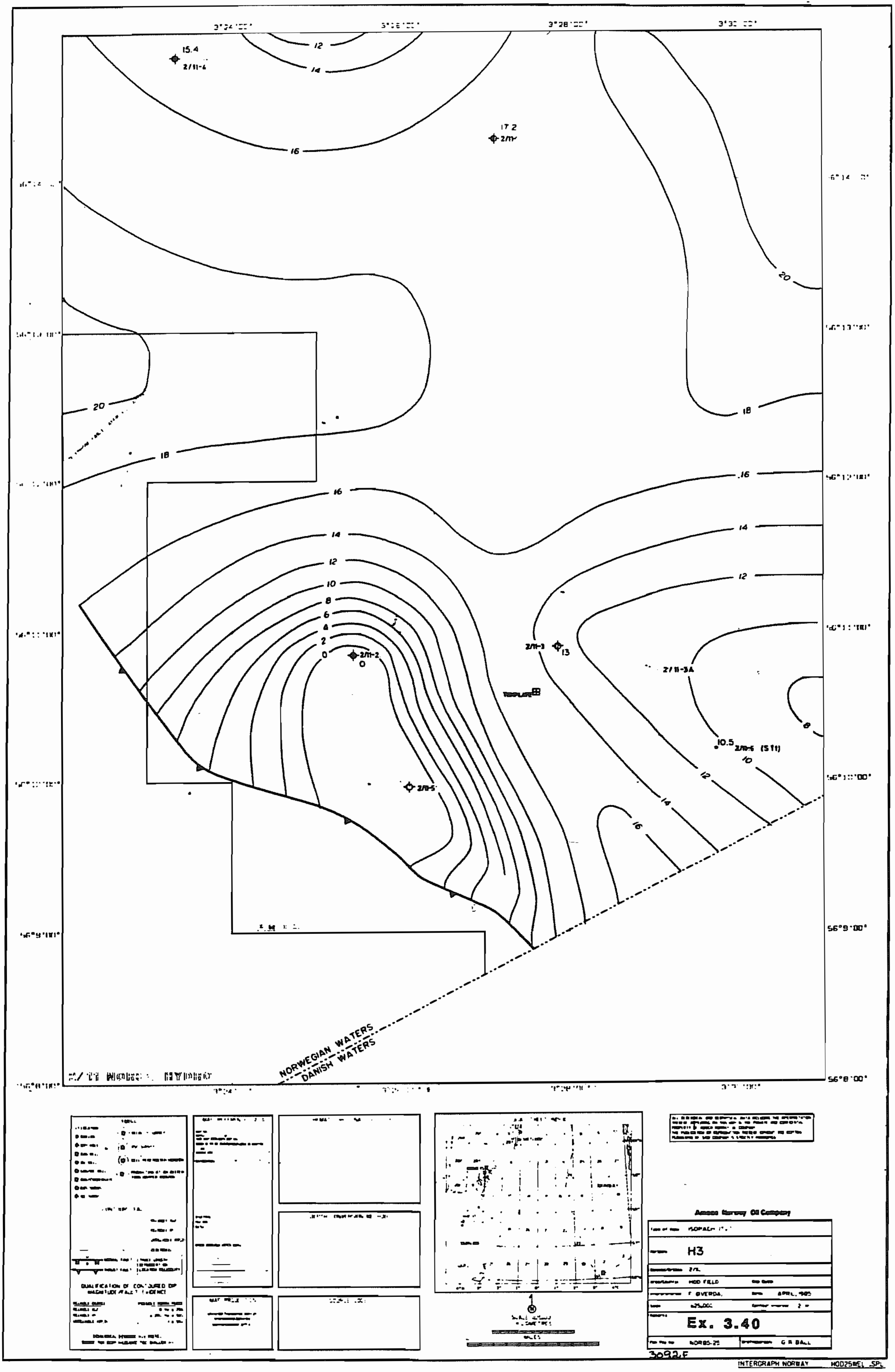
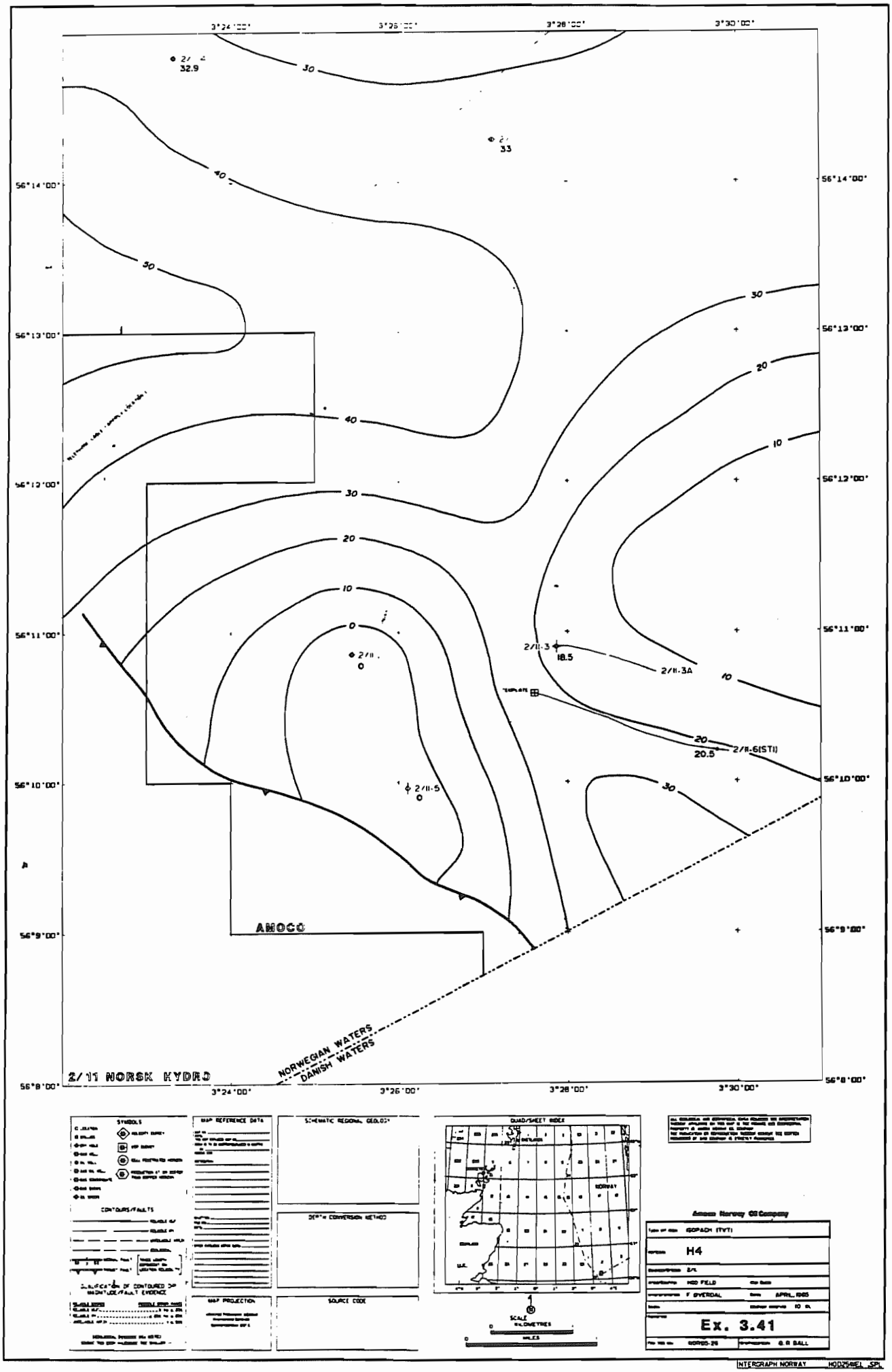
100
2/11-1
59.5
43
61.5
2/11 2
2/11 3
75
2/11 3A
48.5
2/11-6(STI)
2/11 5
32
AMOCO
2/11 NORSK HYDRO
NORWEGIAN WATERS
DANISH WATERS
SYMBOLS
CONTOURS/FAULTS
QUALIFICATION OF CONTOURED DIP MAGNITUDE/FAULT EVIDENCE
MAP REFERENCE DATA
MAP PROJECTION
SCHEMATIC REGIONAL GEOLOGY
DEPTH CONVERSION METHOD
SOURCE CODE
SCALE
KILOMETRES
MILES
Amoco Norway Oil Company
ISOPACH (TVT)
H2
2/11
HOD FIELD
F. OVERDAL
APRIL, 1985
5 M.
Ex. 3.39
NOR85-24
G.R BALL
NSGEO3-1,862
Film nr: 3034-J
NTERGRAPH NORWAY
HOD25WEL .SPL



3092.F

INTERGRAPH NORWAY HOD25WEL.SPL


3°24'00"
3°26'00"
3°28'00"
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56°14'00"
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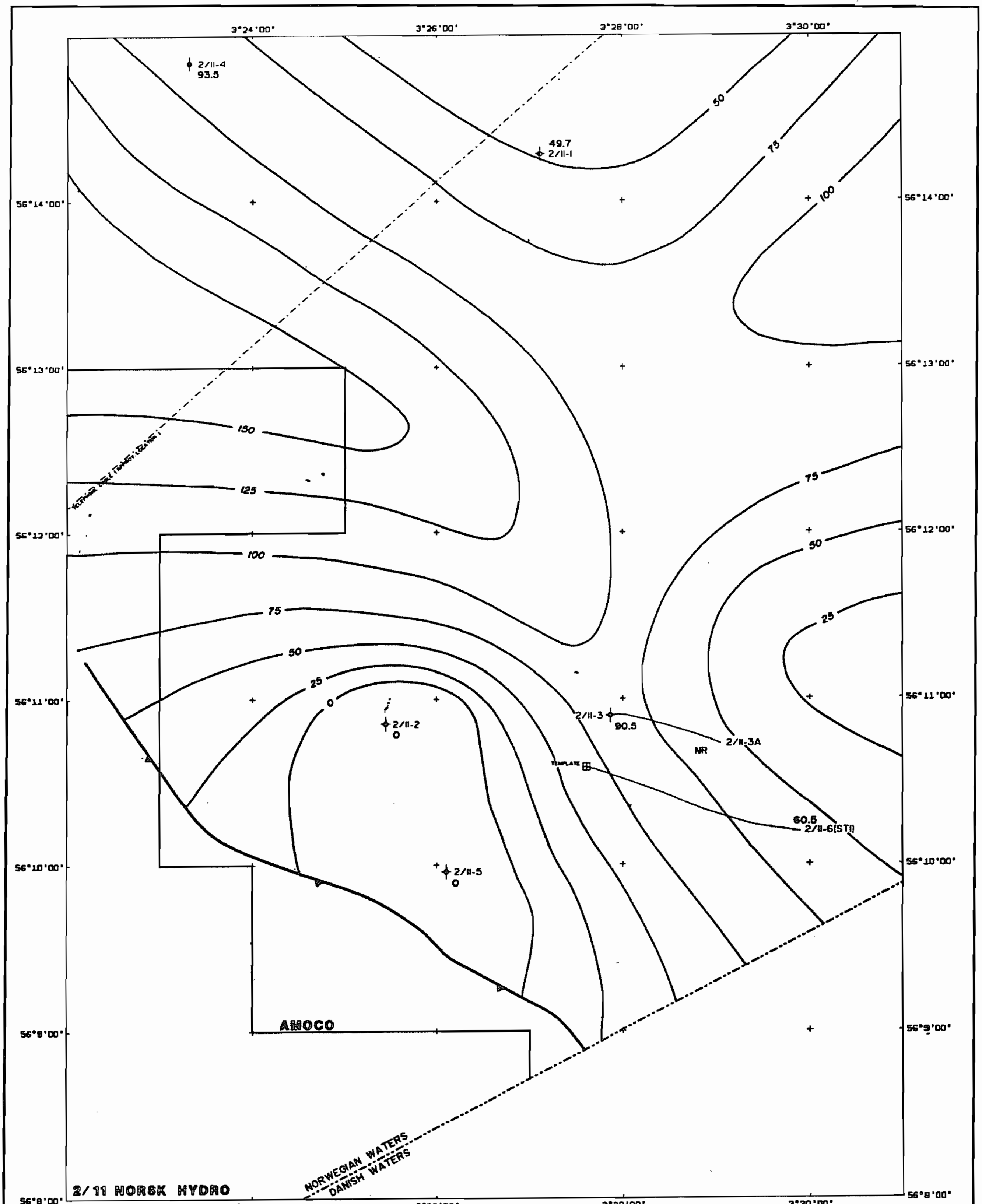
56°12'00"
56°11'00"
56°10'00"
56°9'00"
56°8'00"
32.9
33
30
40
20
10
0
2/11-3
18.5
2/11-3A
2/11-6(ST1)
20.5
2/11-5
AMOCO
NORWEGIAN WATERS
DANISH WATERS
2/11 NORSK HYDRO
SYMBOLS
CONTOURS/FAULTS
MAP REFERENCE DATA
SCHEMATIC REGIONAL GEOLOGY
DEPTH CONVERSION METHOD
MAP PROJECTION
SOURCE CODE
QUAD/SHEET INDEX
NORWAY
SCALE
KILOMETRES
MILES
Amoco Norway Oil Company
ISOPACH (TVT)
H4
H2D FIELD
F. ØVERDAL
APRIL, 1985
Ex. 3.41
6.8 BALL
INTERGRAPH NORWAY



SYMBOLS

CONTOURS/FAULTS

QUALIFICATION OF CONTOURED OR MAGNITUDE/FAULT EVIDENCE

MAP REFERENCE DATA

SCHEMATIC REGIONAL GEOLOGY

DEPTH CONVERSION METHOD

MAP PROJECTION

SOURCE CODE

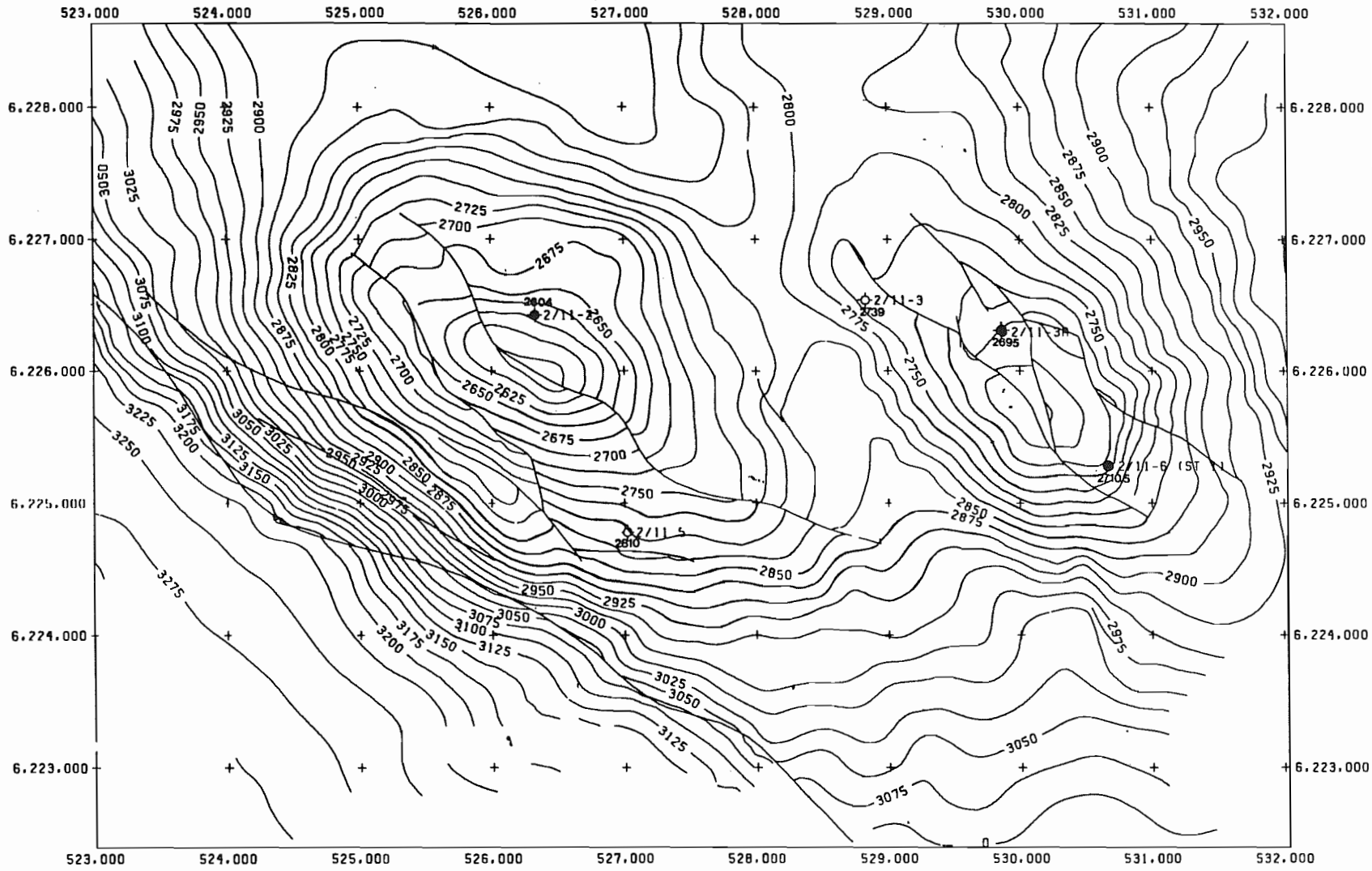
QUAD/SHEET INDEX

SCALE
KILOMETRES
MILES

Amoco Norway Oil Company

Type of map	ISOPACH (TVT)
Horizon	H5 + H6
Block	2/11
	HOD FIELD
Interpretation	F. OVERDAL	Date APRIL, 1993
	Contour interval 25 M
	Ex. 3.42
File	HOR85-27	Draftsperson G.R. BALL

INTERGRAPH NORWAY H0025WEL.SPL



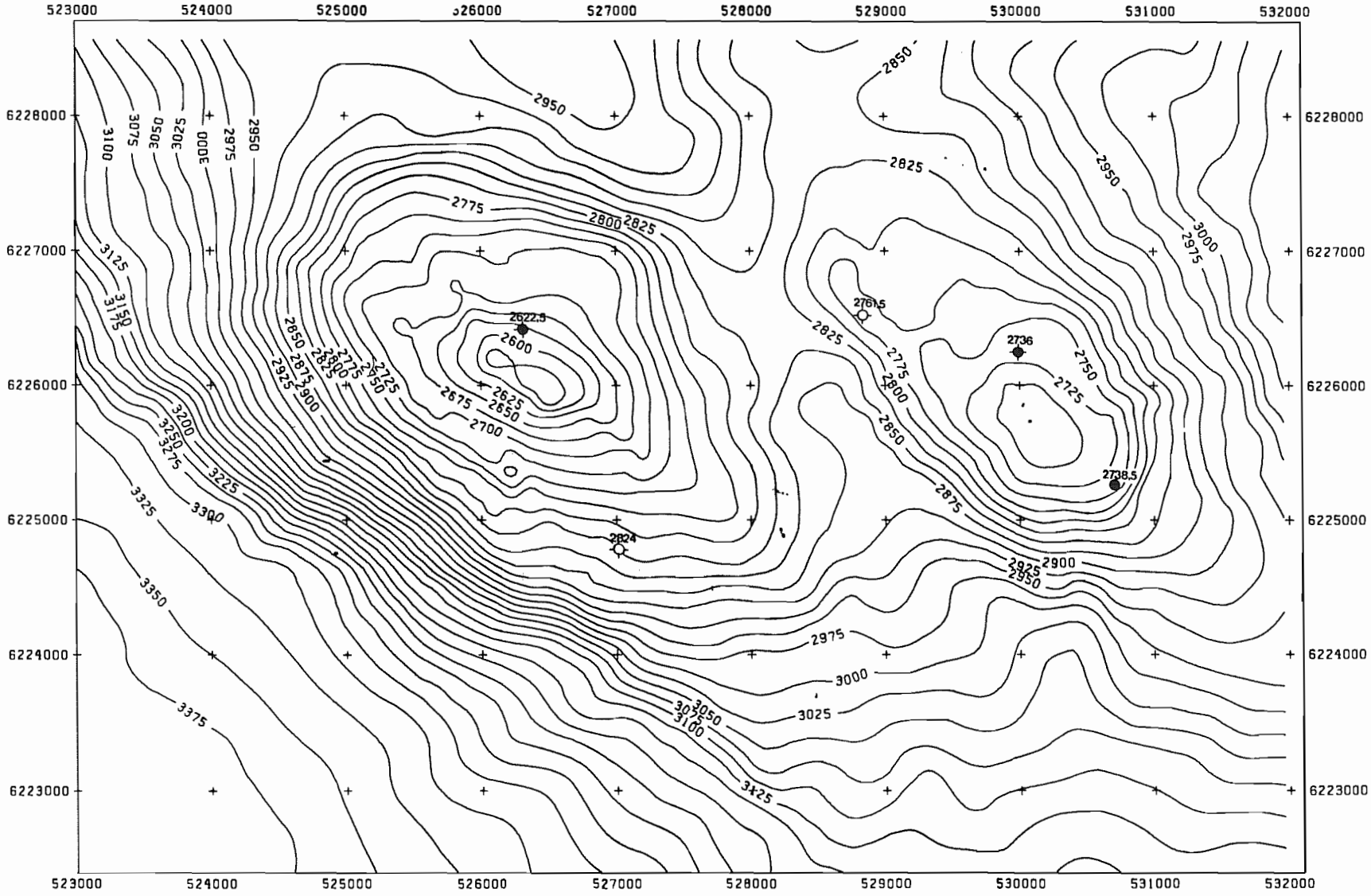
AMØCØ NØRWAY ØIL CØMPANY

TØR MID-PØINT STRUCTURE

1:25.000	F.ØEVRDAL	8-01 -85
NØR 85-138		

N5603.11.882 FILM NO.3014-Y

Ex. 3.43



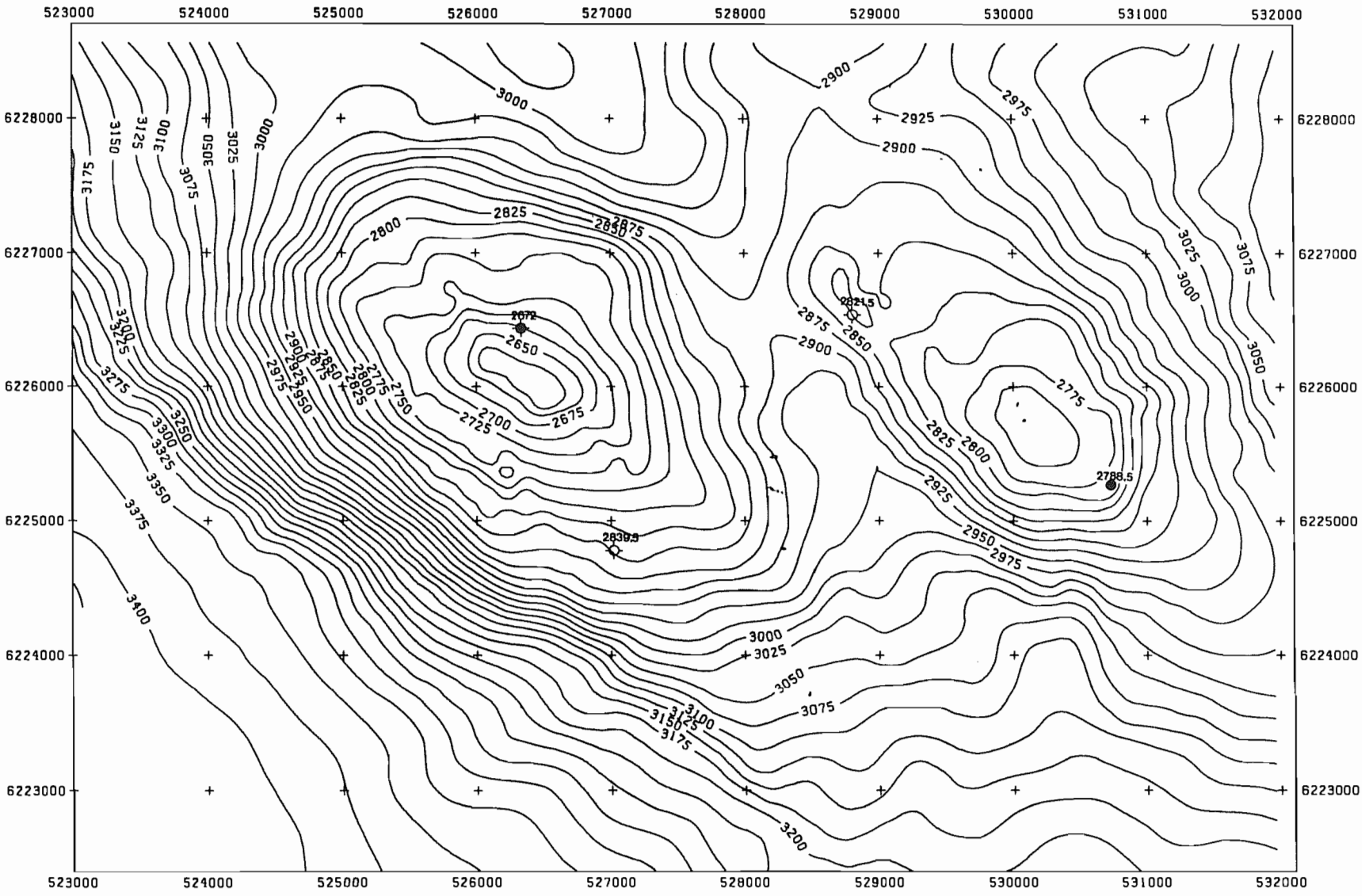
AMØCØ NØRWAY ØIL CØMPANY

H1 MID-PØINT STRUCTURE

	F. BEVRDAL	7-23 -85
NØR 85-139		

N56E03.11.882 FILM NO.30144 -A

Ex. 3.44



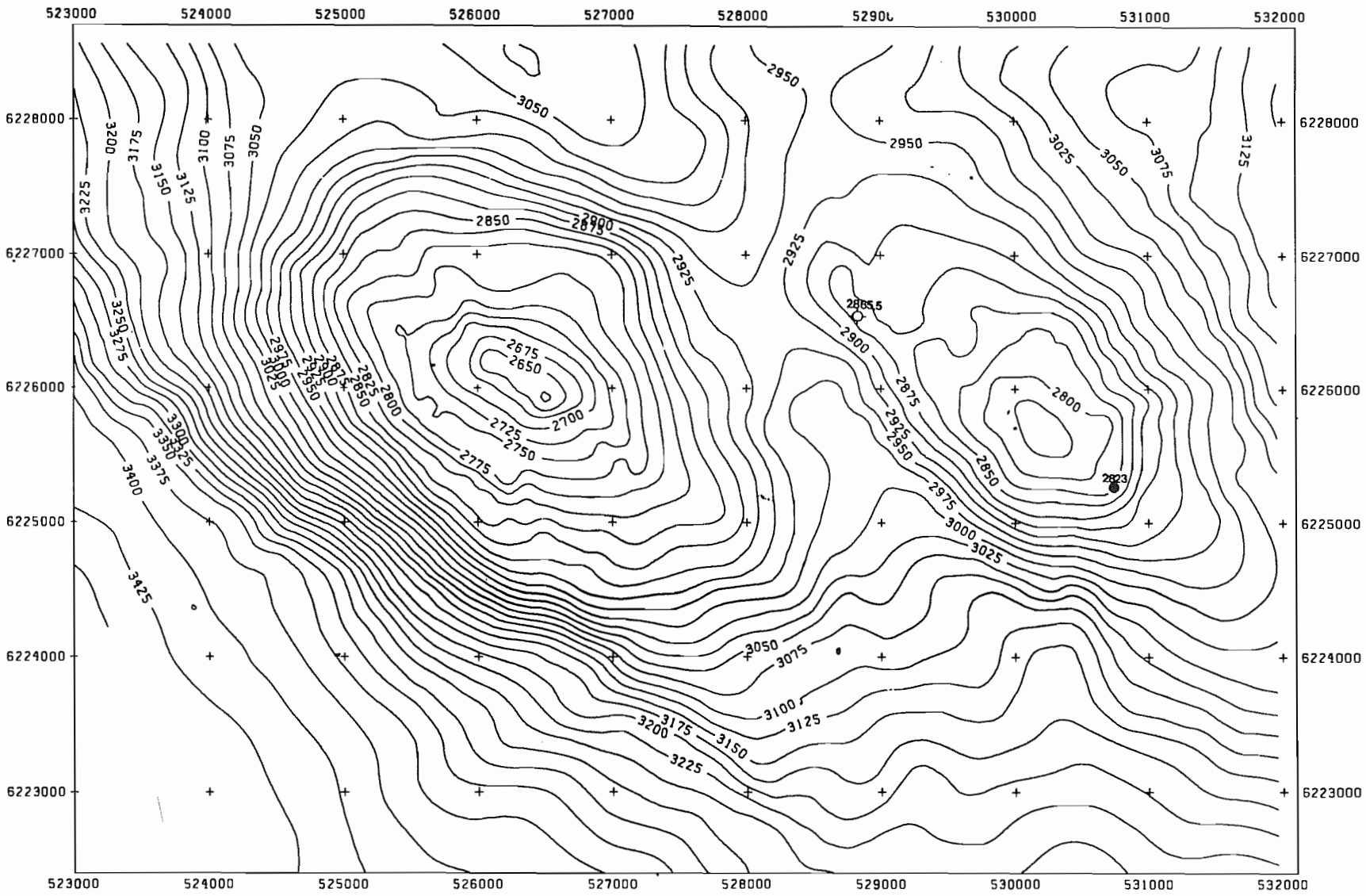
AMØCØ NØRWAY ØIL CØMPANY

H2 MID-PØINT STRUCTURE

	F. ØEVRDAL	7-23 -85
NØR 85-140		

N56E03.11.882 FILM NO.3014-G

Ex. 3.45



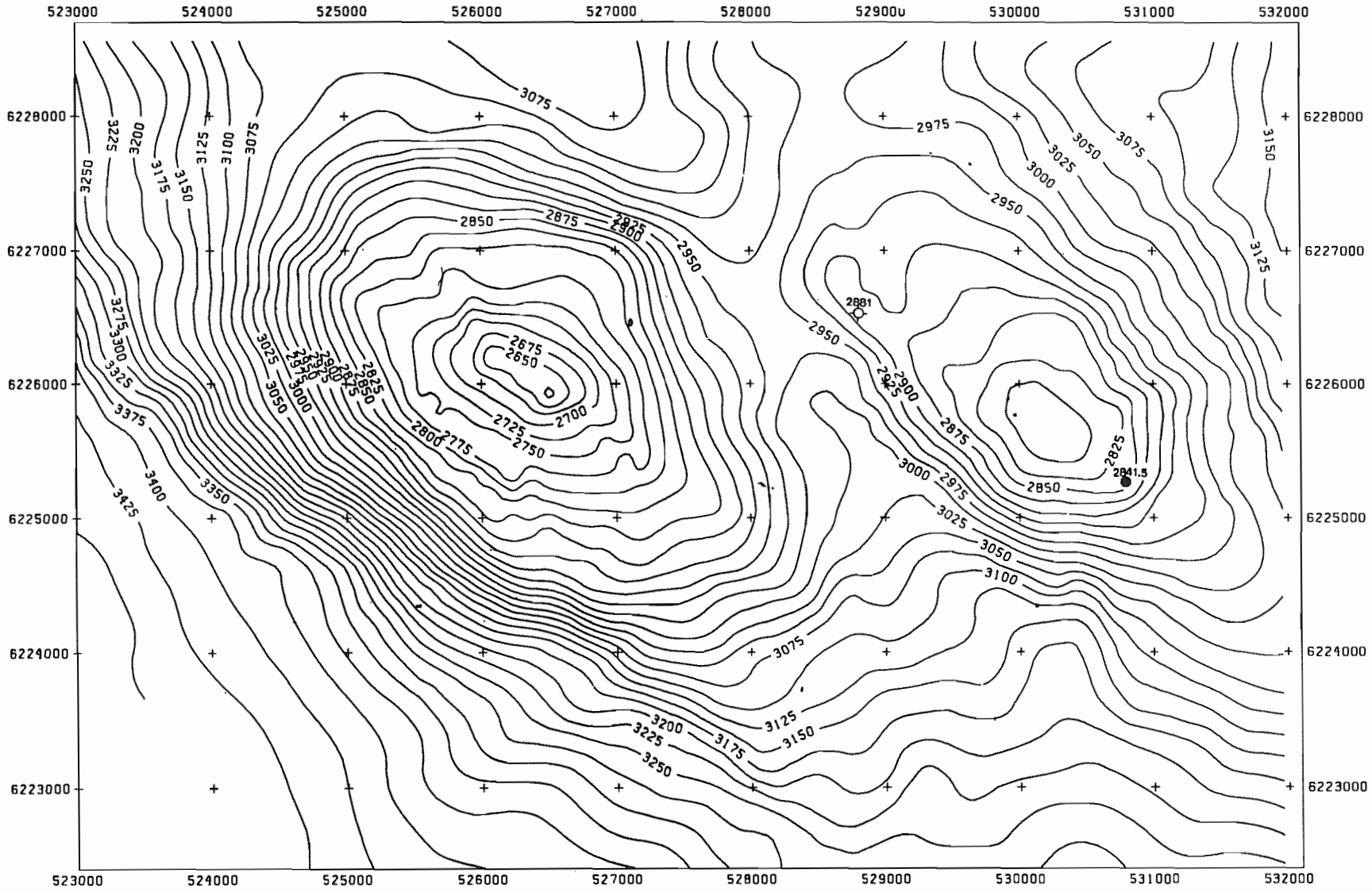
AMØCØ NØRWAY ØIL CØMPANY

H3 MID-PØINT STRUCTURE

F. ØEVRDAL | 7-24 -85

N56E03.11.882FILM NO.3014-S

Ex. 3.46



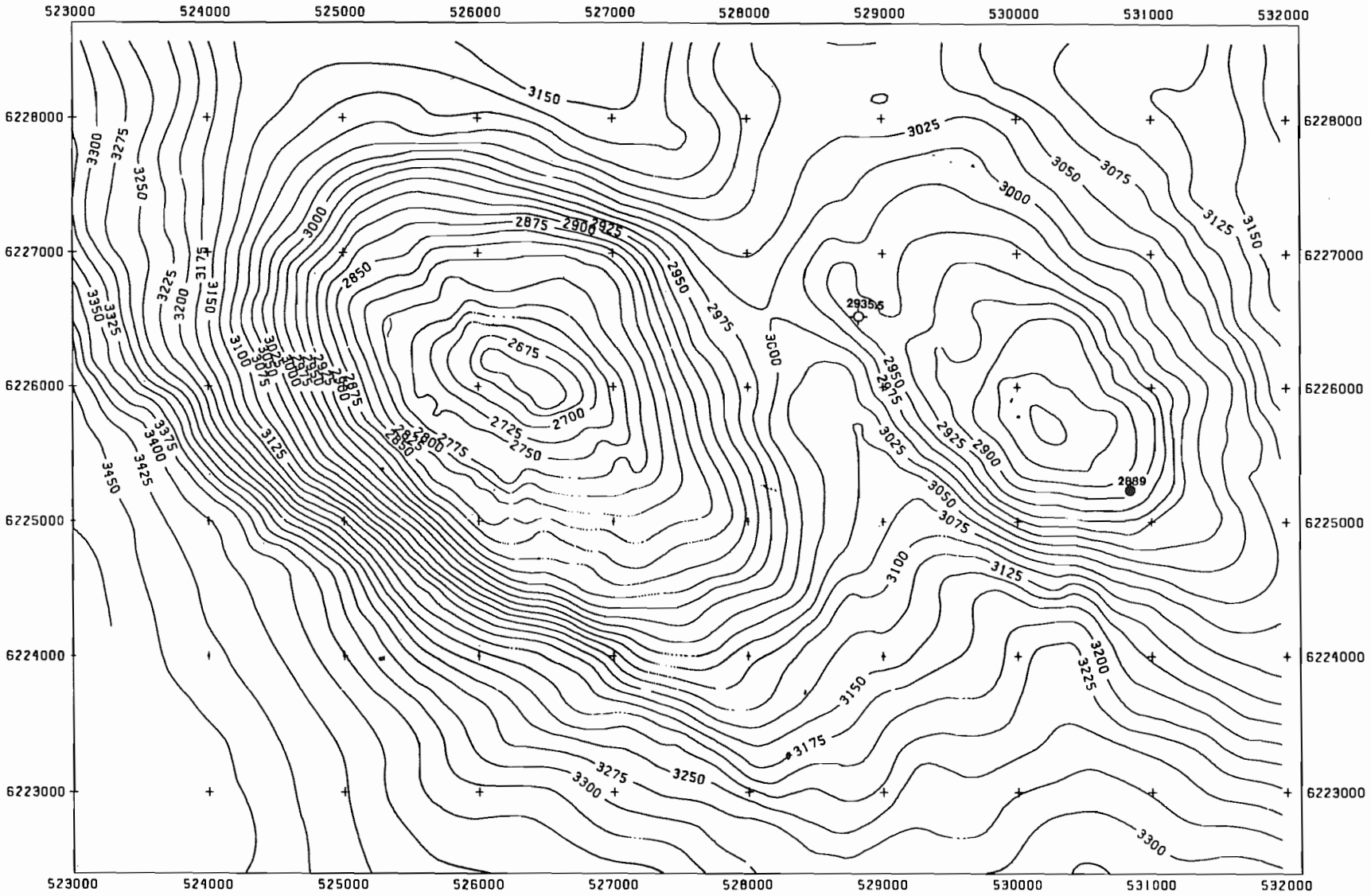
AMØCØ NØRWAY ØIL CØMPANY

H4 MID-PØINT STRUCTURE

	F. ØEVADAL	7-21 -85
NBR 85-142		

N56E03.11.882 FILM NO.3014 -E

Ex. 3.47



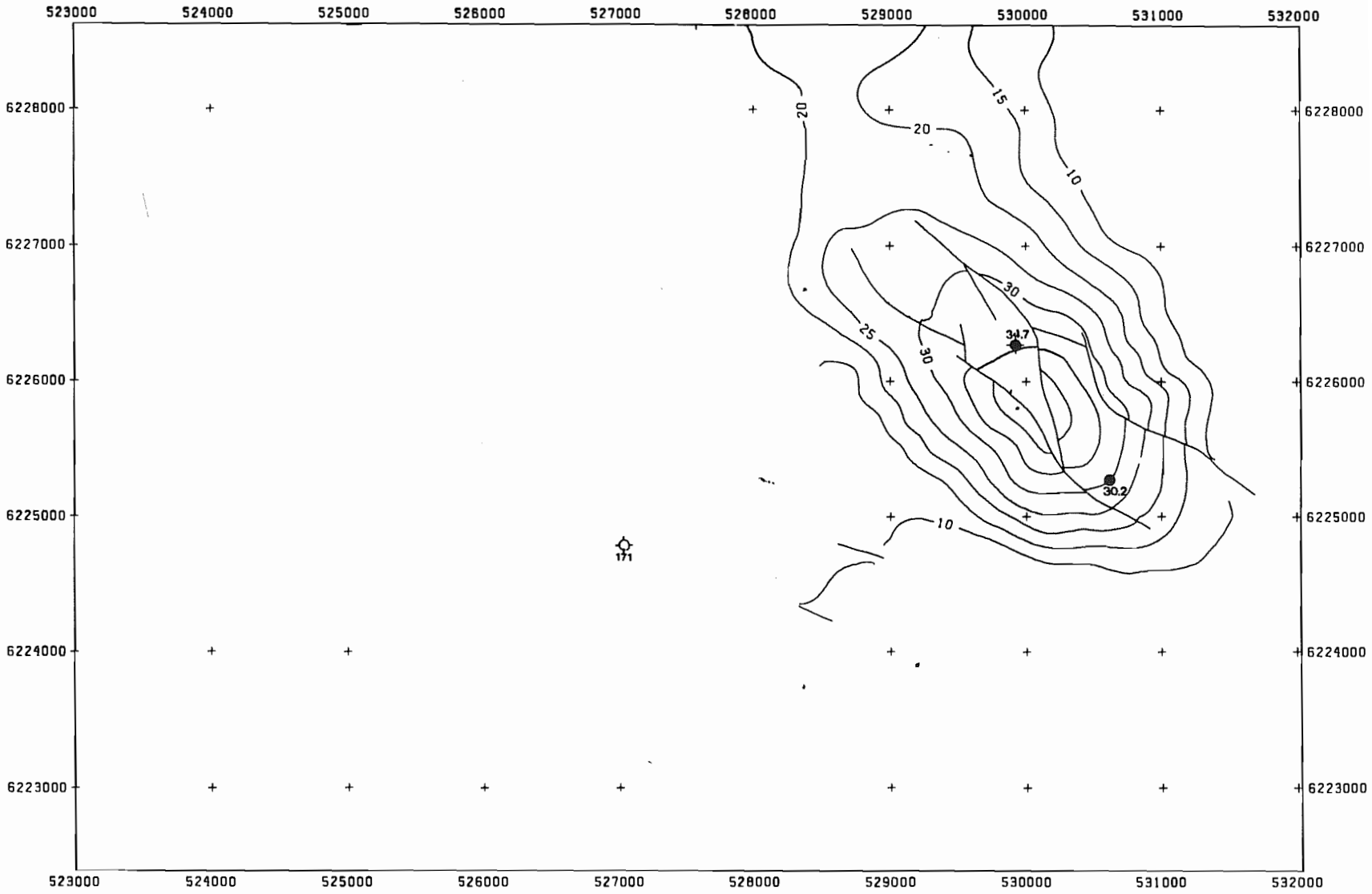
AMØCØ NØRWAY ØIL CØMPANY

H56 MID-PØINT STRUCTURE

	F. BEYROAL	7-25 -85
NOR 85-143		

N56E03.11.882 FILM NO.3014-Æ

Ex. 3.48



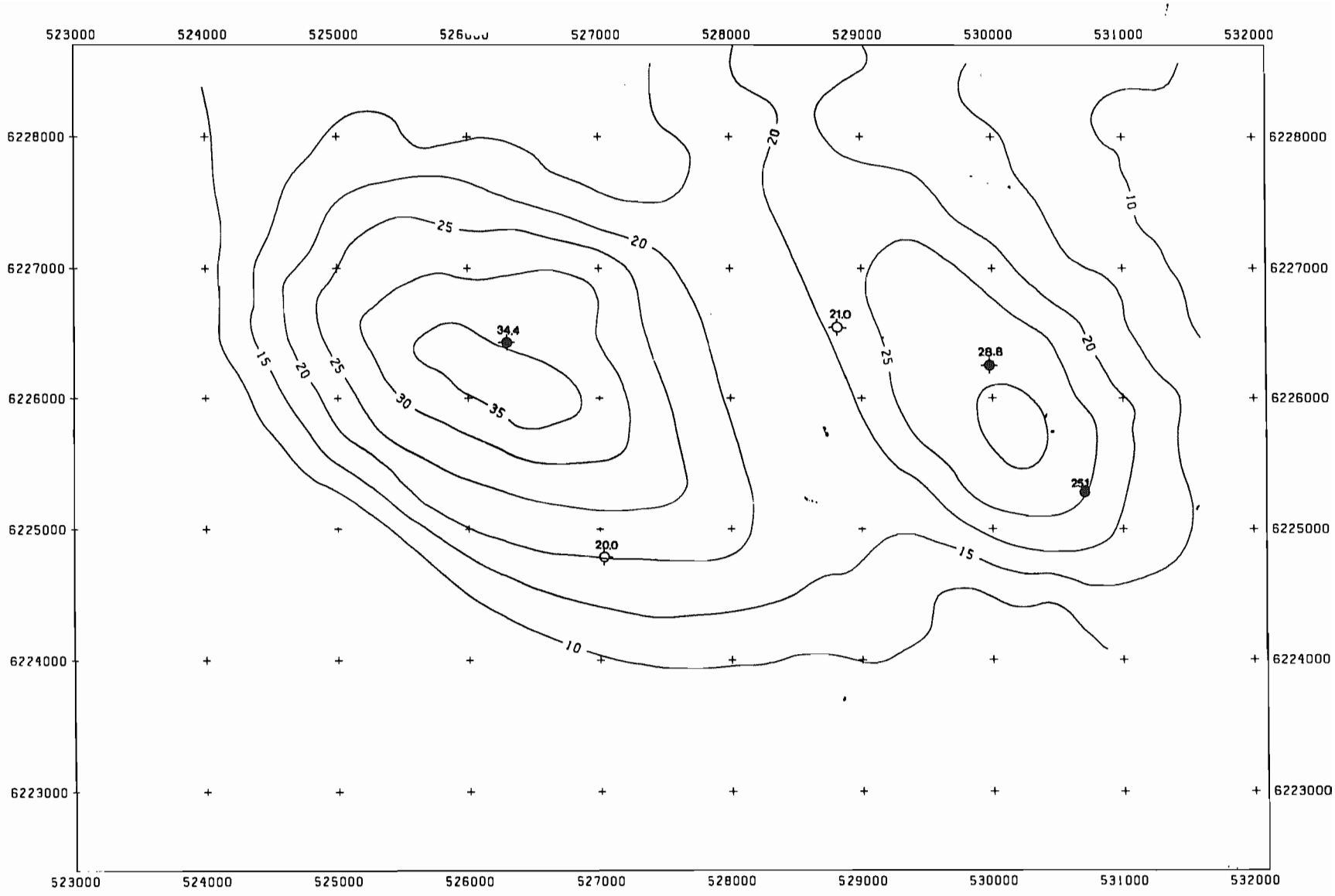
AMØCØ NØRWAY ØIL CØMPANY

TØR GRØSS PØRØSITY

1:25,000	F.BEVROAL	7-23-85
NØR 85-132		

N56E03.11.852 FILM NO.3014-R

Ex. 3.49



AMØCØ NØRWAY ØIL CØMPANY

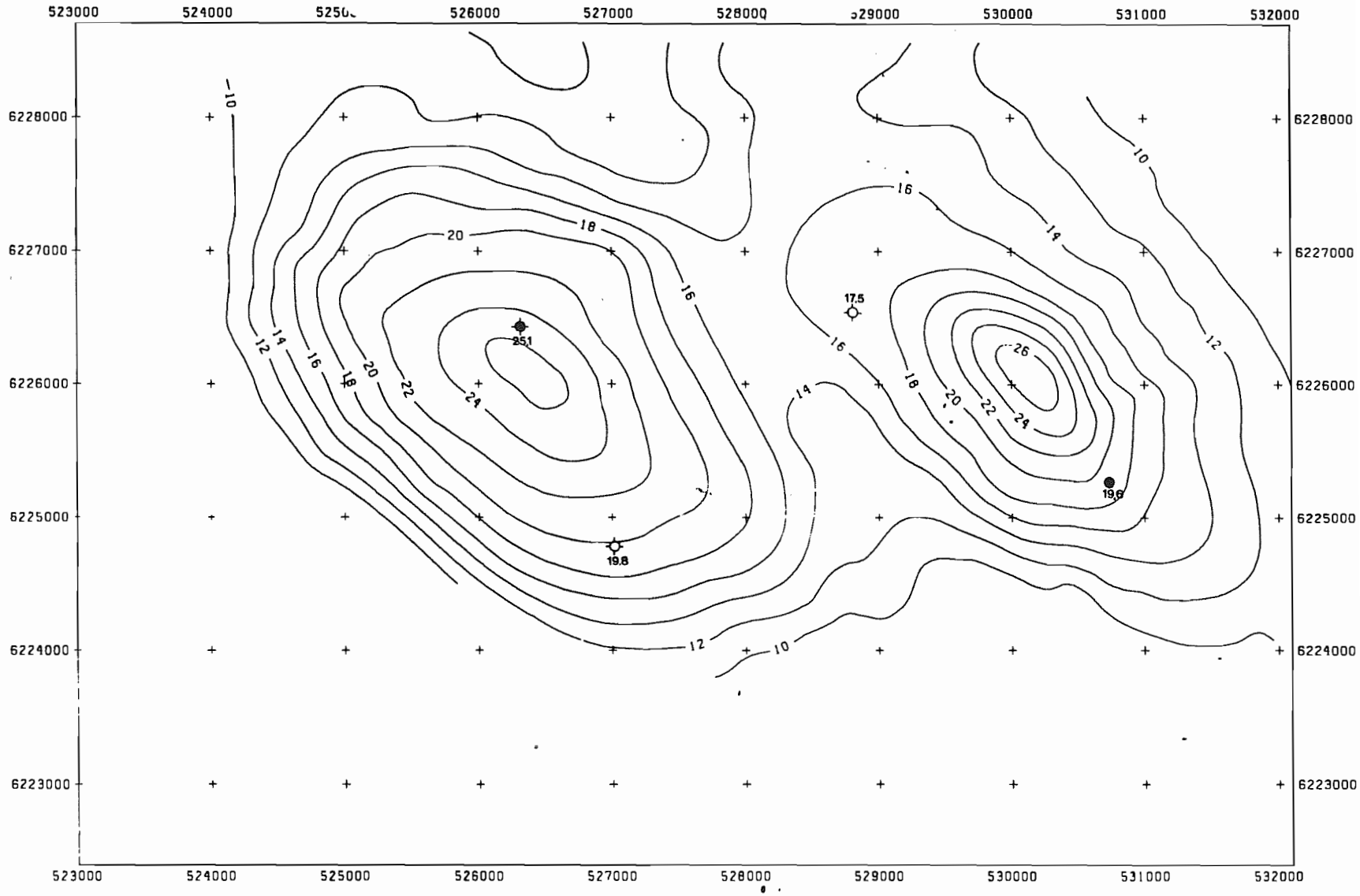
HI GRØSS PØRØSITY

F. BEYROAL | 7-23 -85

NØR 85-133

N56E03.11.851 FILM NO.3014-W

Ex. 3.50



AMØCØ NØRWAY ØIL CØMPANY

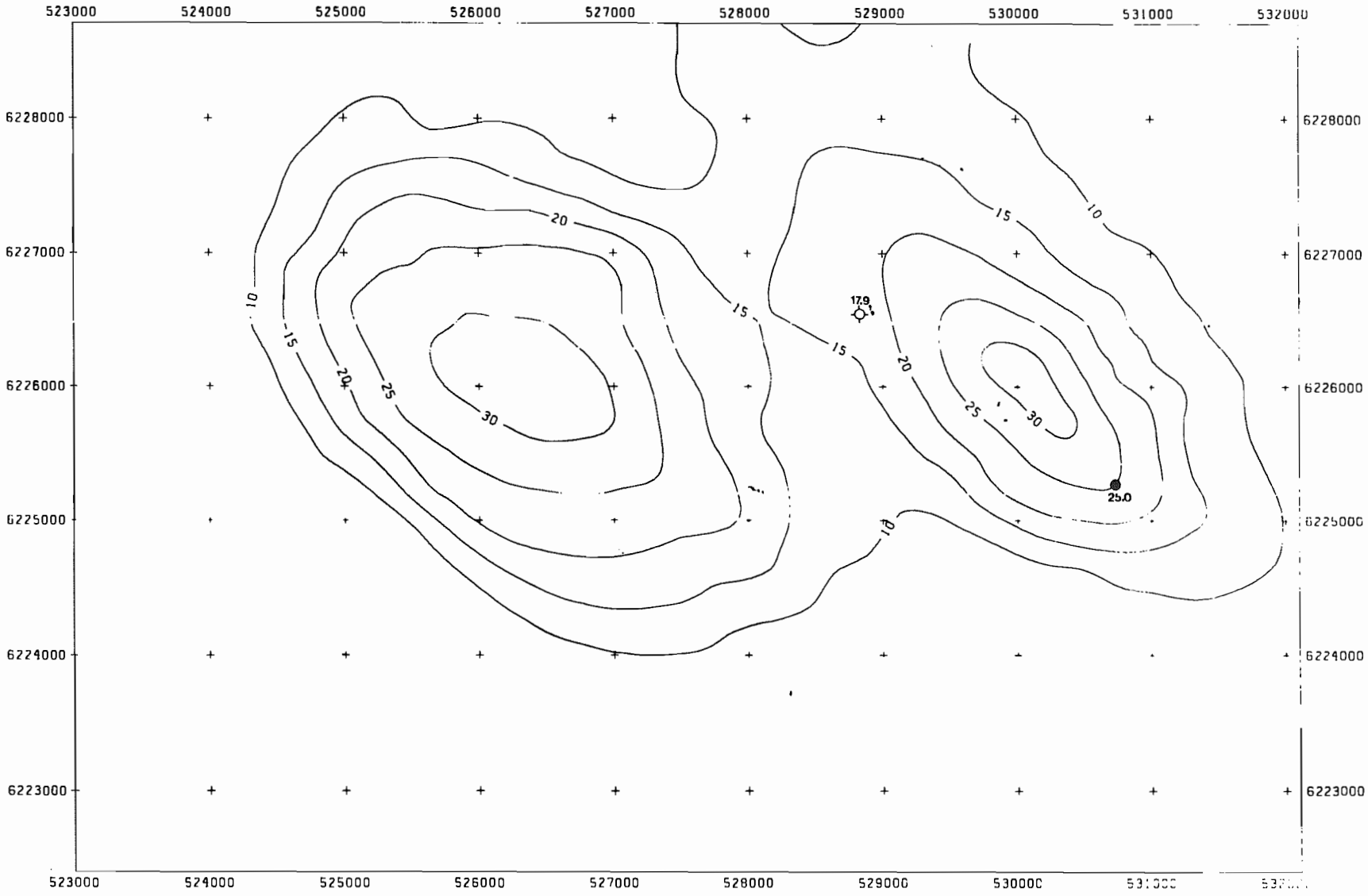
H2 GRØSS PØRØSITY

F. BEVRDAL | 7-29 -85

NØR 85-134

N56E03.11.862 FILM NO.3014-K

Ex. 3.51



AMØCØ NØRWAY ØIL CØMPANY

H3 GRØSS PØRØSITY

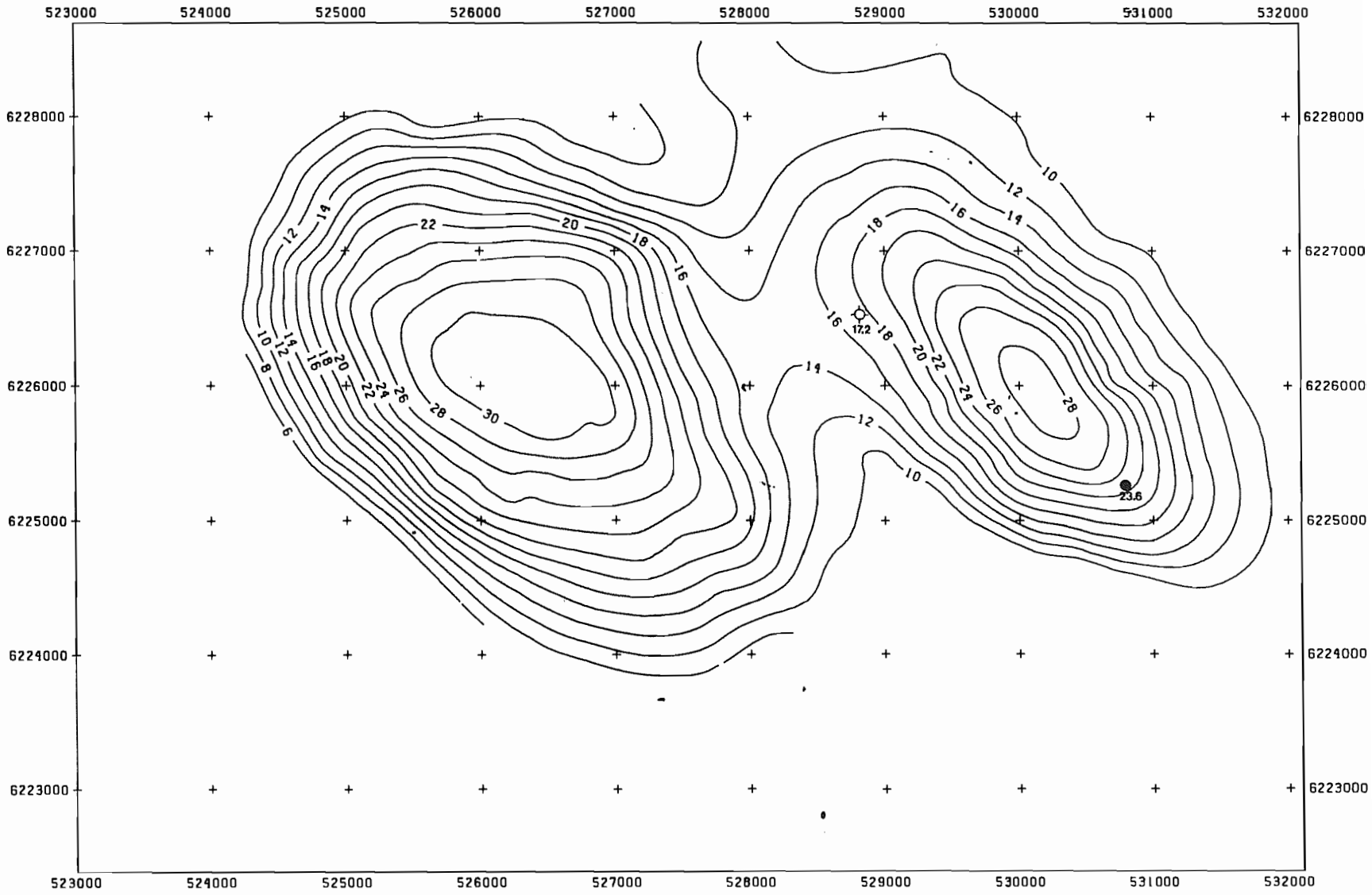
851

F. ØEVRØAL | 7-24 -85

NBR 85-135

N56E03.11.851 FILM NO.3014-N

Ex. 3.52



AMØCØ NØRWAY ØIL CØMPANY

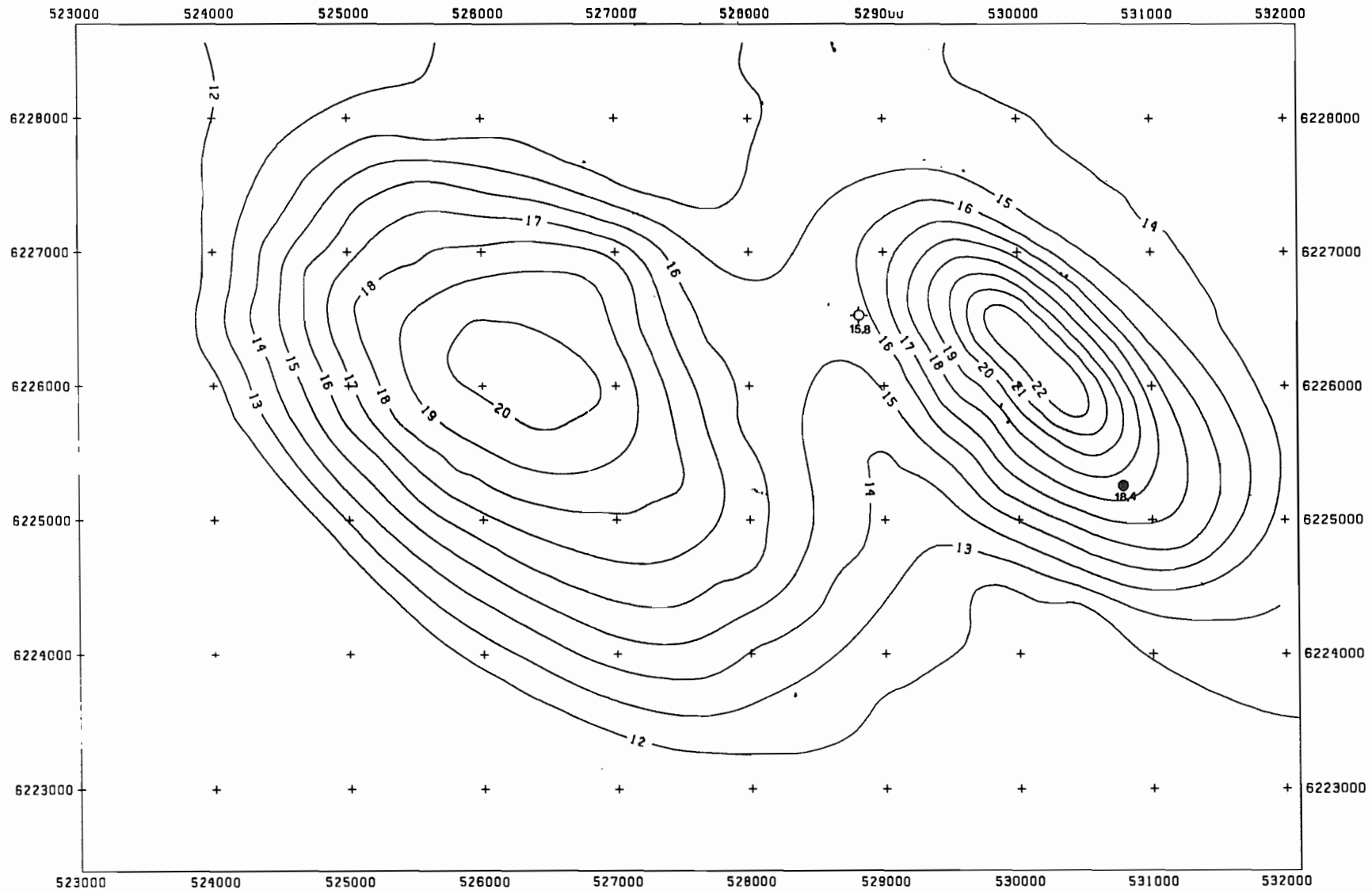
H4 GRØSS PØRØSITY

F. BEVRDAL | 7-24 -85

NOR 85-136

N56E03.11.851 FILM NO.3014-0

Ex. 3.53



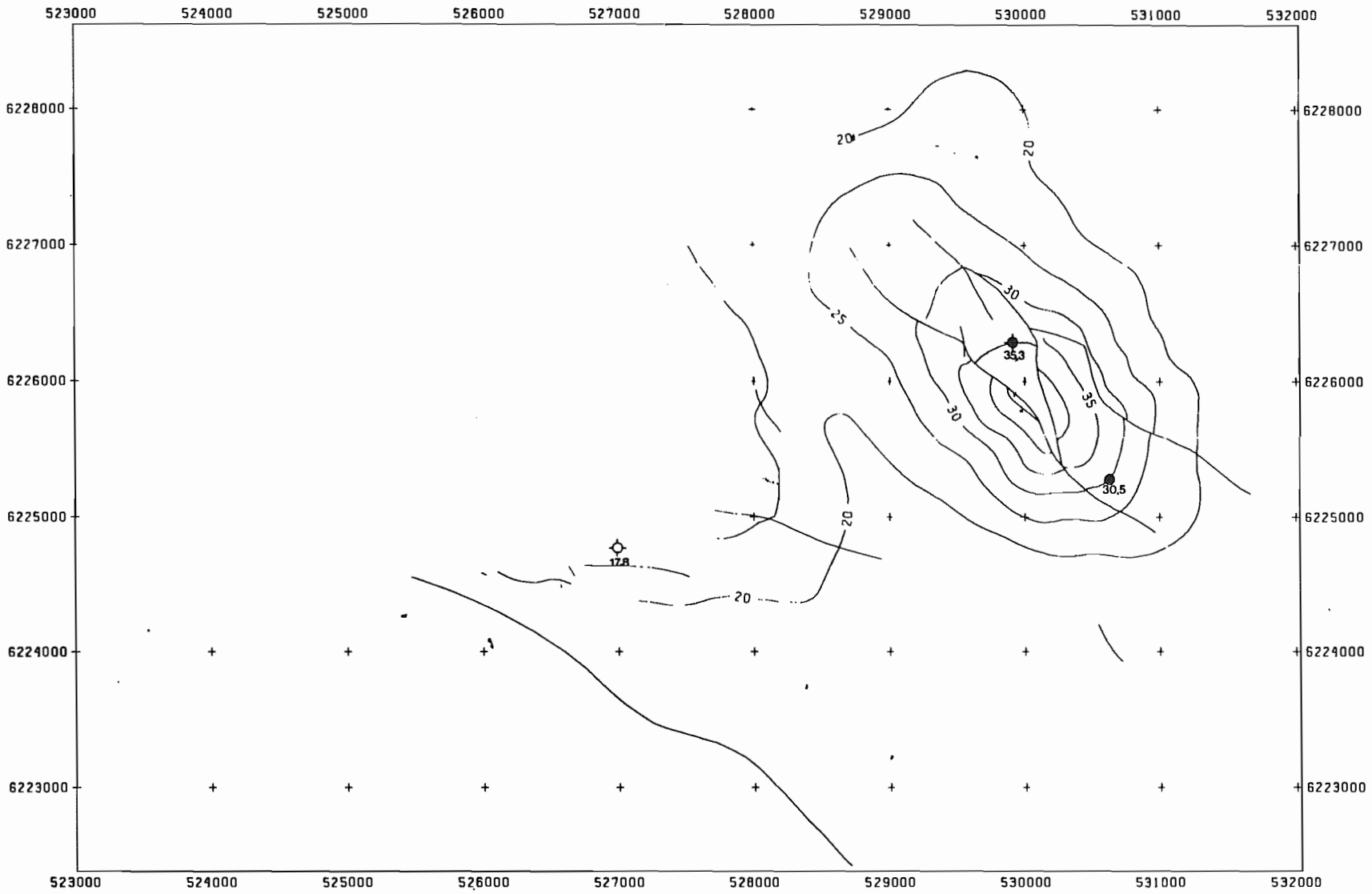
AMØCØ NØRWAY ØIL CØMPANY

H5 6 GRØSS PØRØSITY

1:25.000	F.BEVRØAL	7-24 -85
NØR 85-137		

N56E03.11.851 FILM NO.3014-T

Ex. 3.54



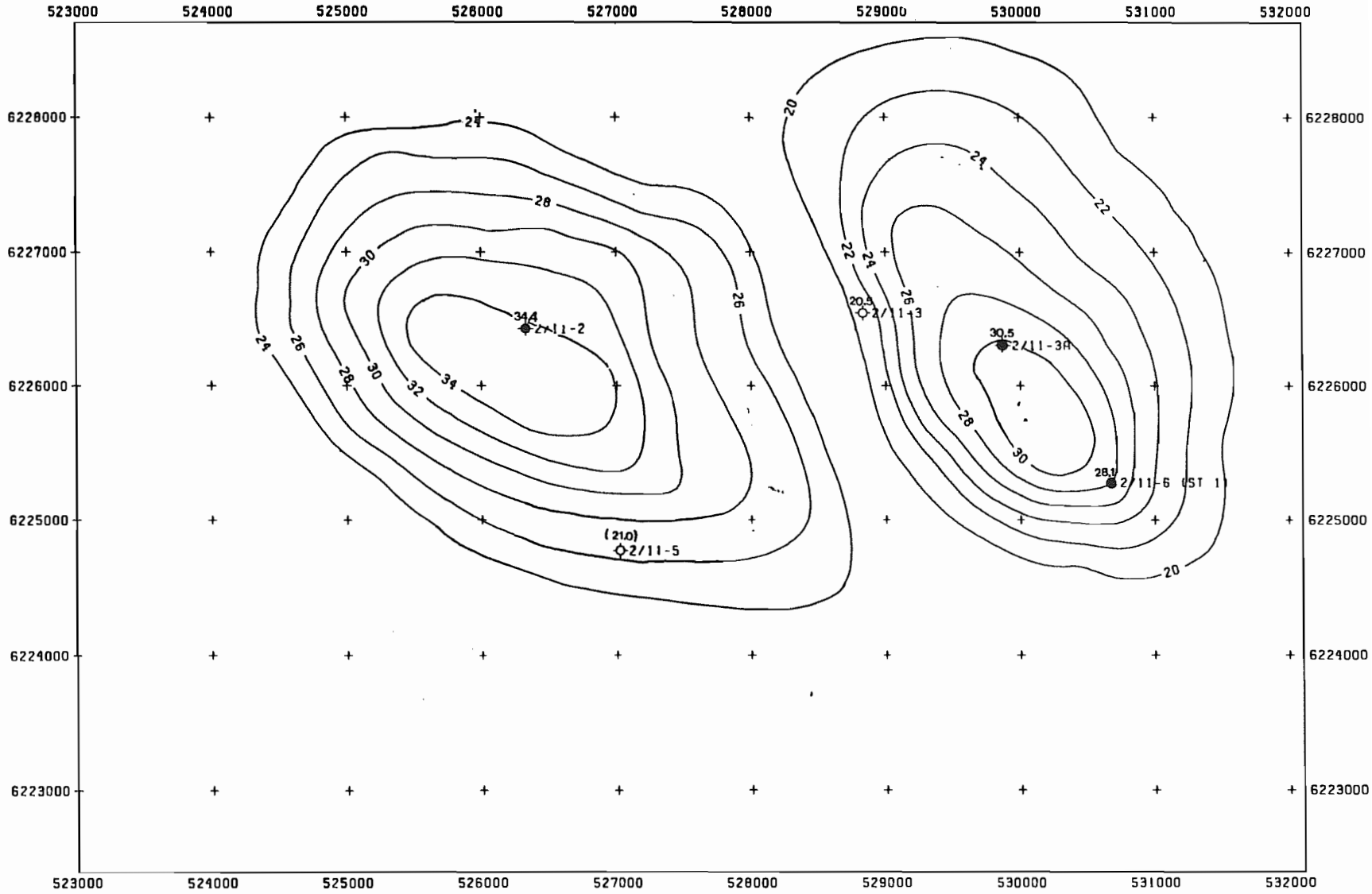
AMØCØ NØRWAY ØIL CØMPANY

TØR NET PØRØSITY

	F.ØEVRDAL	7-25 -85
NØR 85-128		

N56E03.11.862 FILM NO.3014-Ø

Ex. 3.55



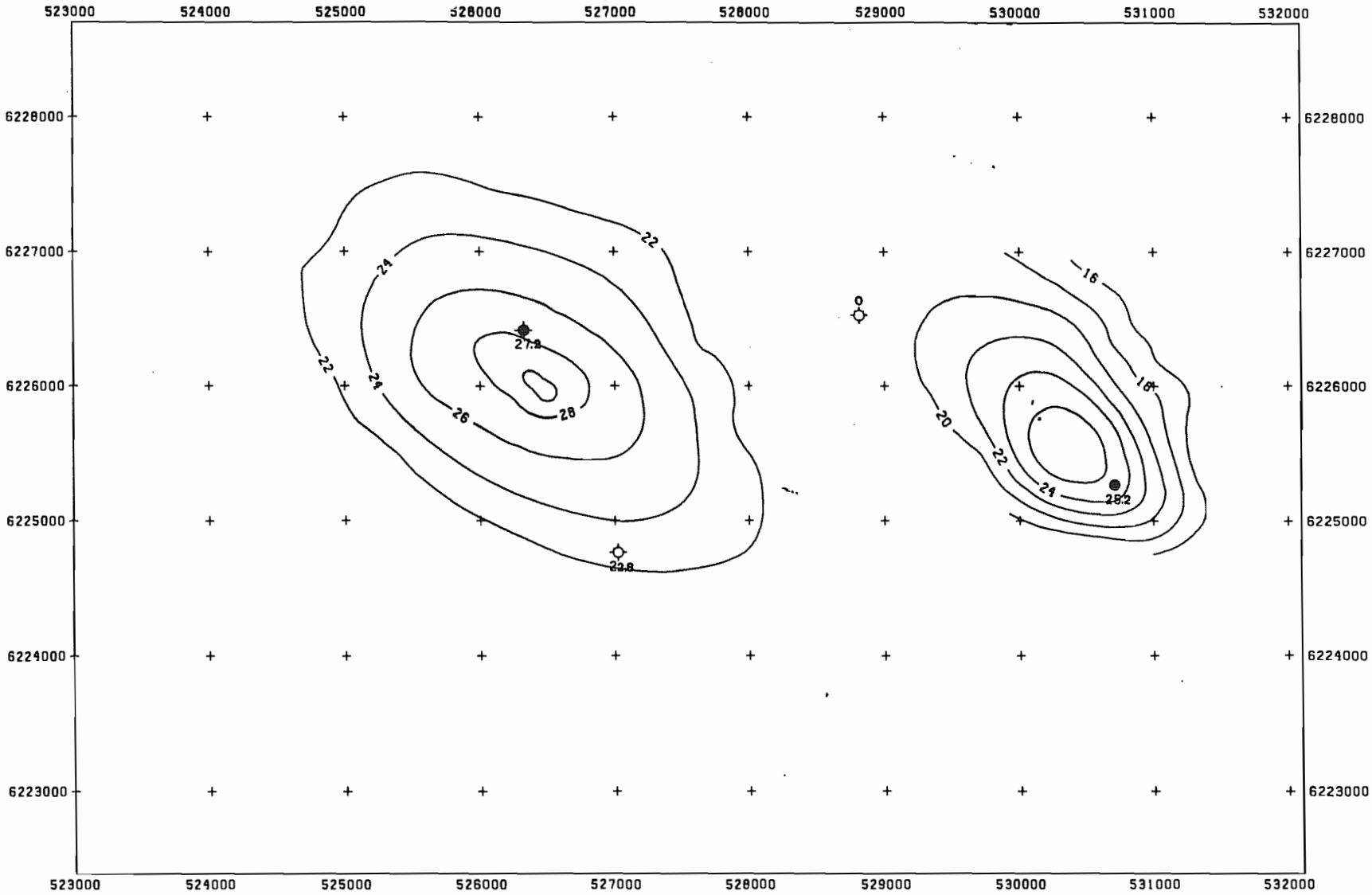
AMØCØ NØRWAY ØIL CØMPANY

H1 NET PØRØSITY

	F.ØEVRDAL	7-31 -85
NØR 85-127		

N5603.11.862 FILM NO.3914- AA

Ex. 3.56



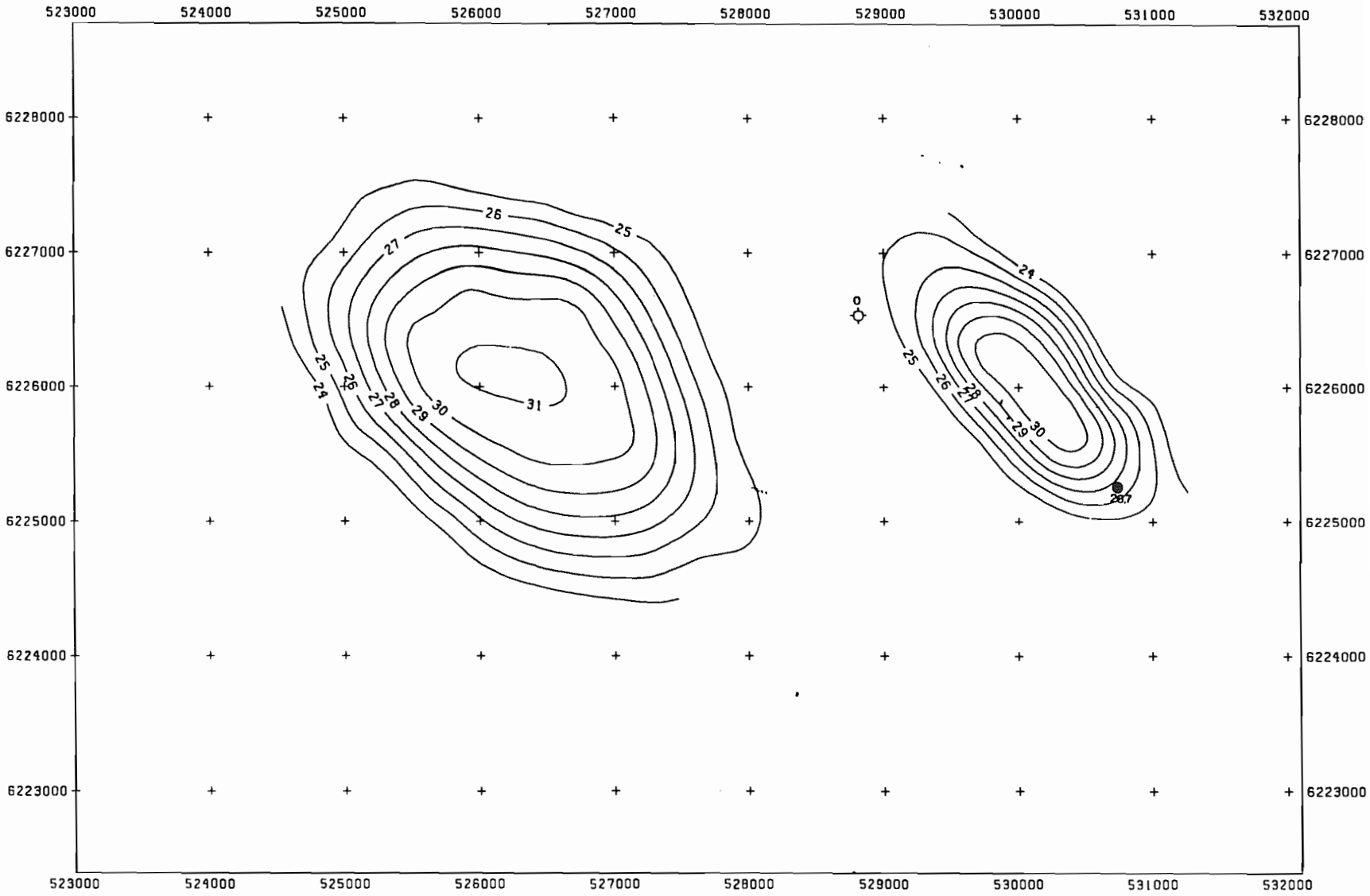
AMØCØ NØRWAY ØIL CØMPANY

H2 NET PØRØSITY

	F. BEVROAL	7-18 -85*
NØR 85-128		

N56E03.11.861 FILM NO.3014-U

Ex. 3.57



AMØCØ NØRWAY ØIL CØMPANY

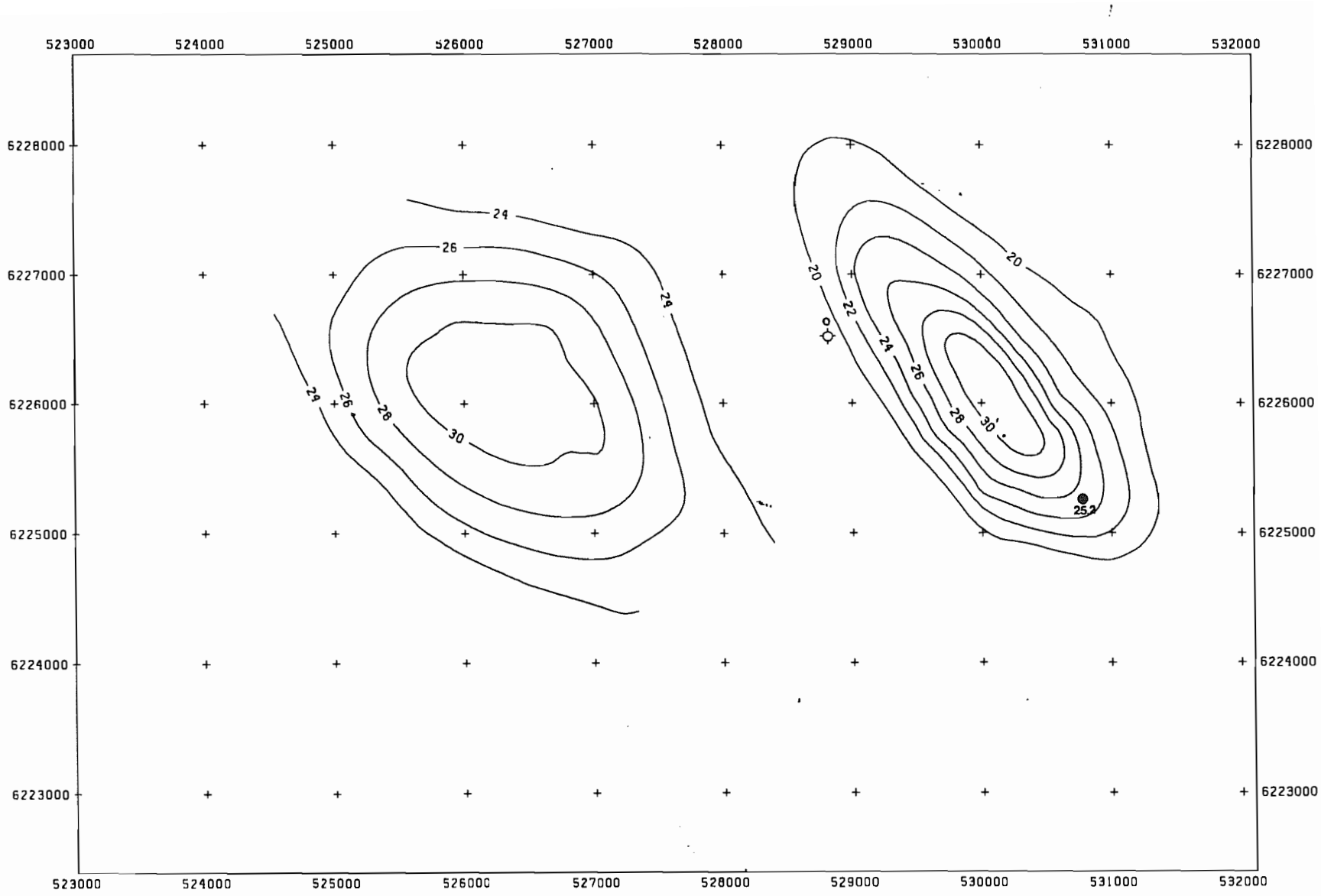
H3 NET PØRØSITY

F. ØEVRDAL | 7-10 -85

NØR 85-129

N56E03.11.862 FILM NO.3014-J

Ex. 3.58



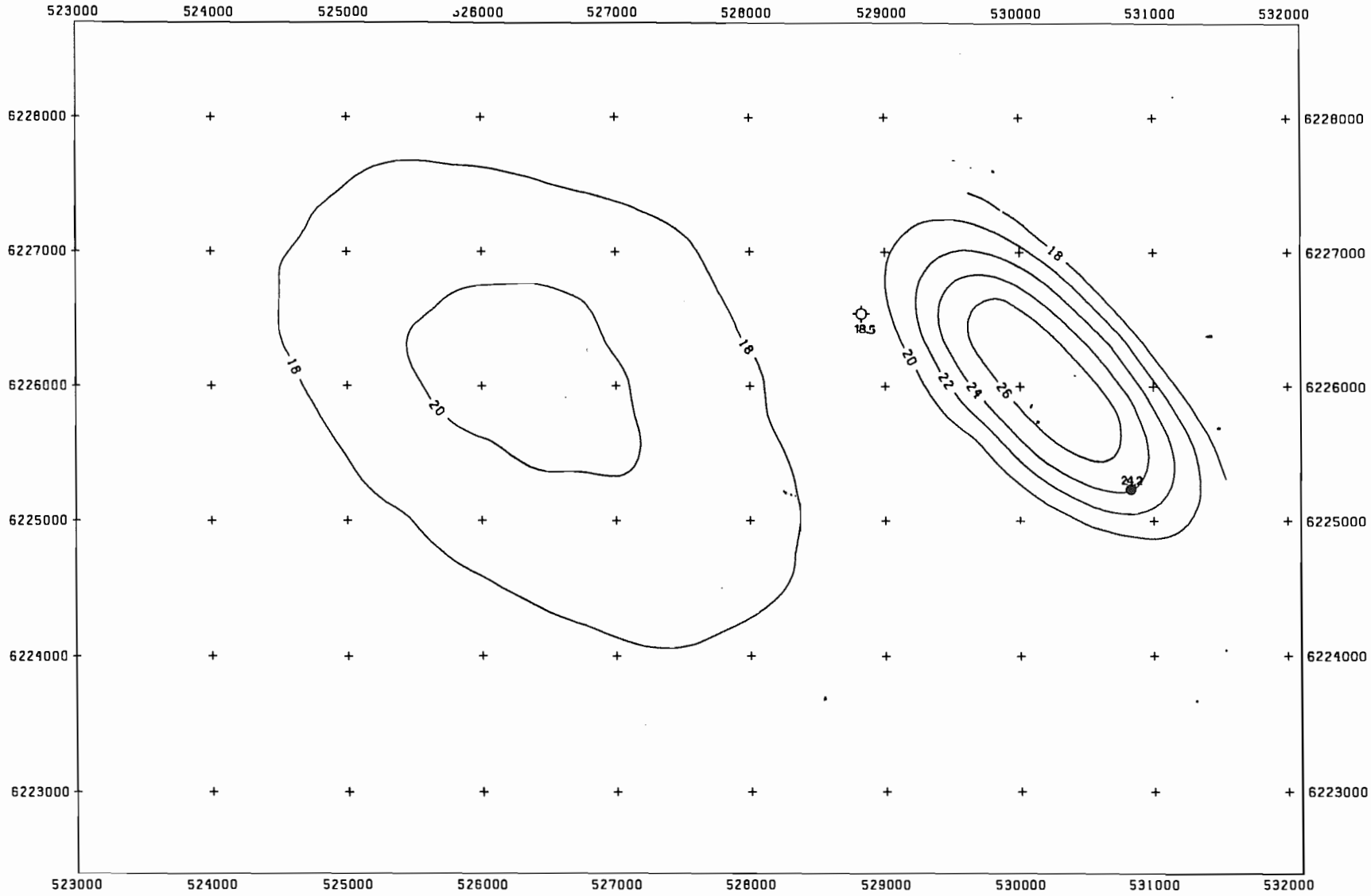
AMØCØ NØRWAY ØIL CØMPANY

H4 NET PØRØSITY

	F.BEVRDAL	7-18 -85
NØR 85-130		

N56E03.11.862 FILM NO.3014-M

Ex. 3.59



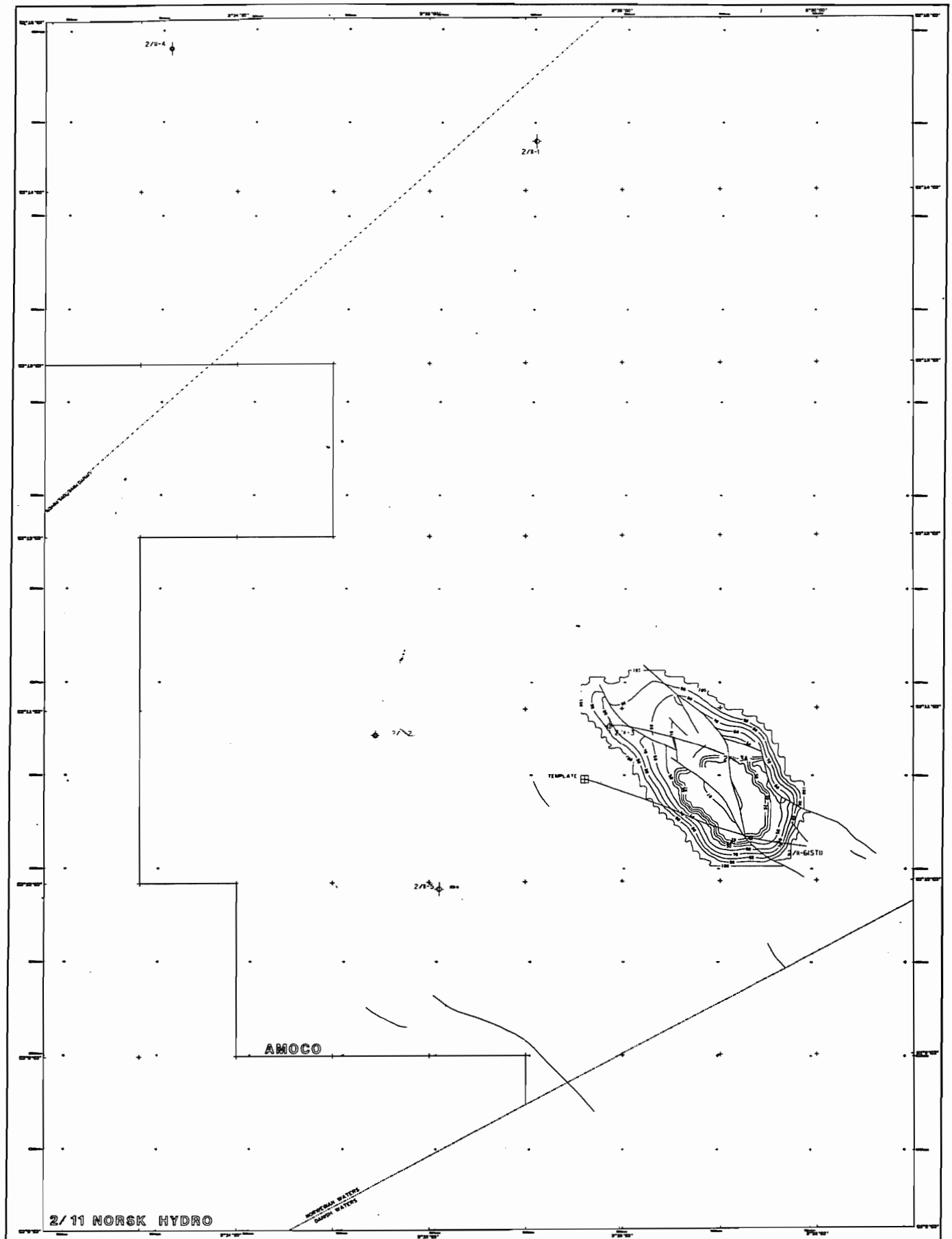
AMØCØ NØRWAY ØIL CØMPANY

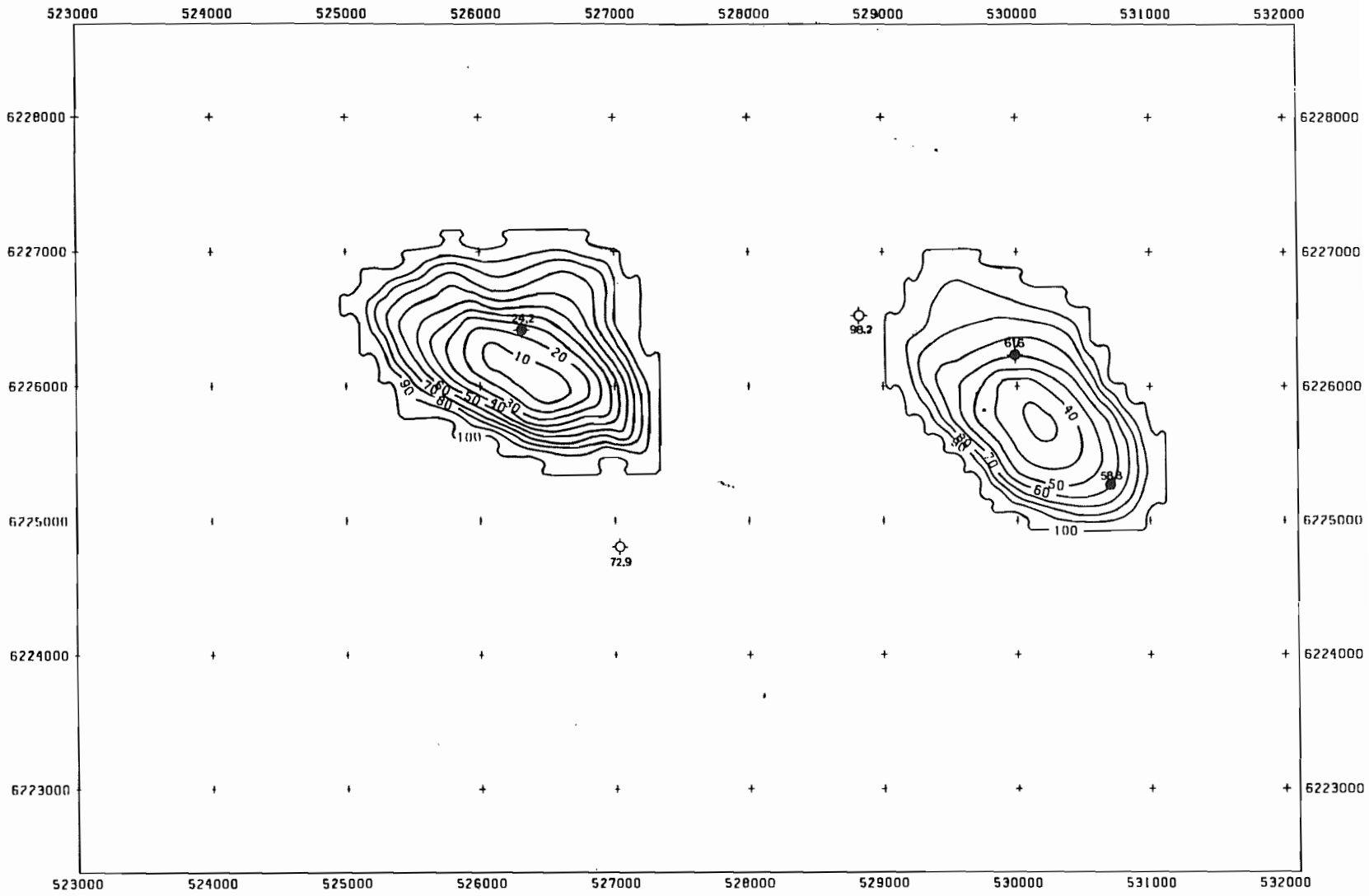
H56 NET PØRØSITY

	F. BEYRDAL	7-10 -85
NØR 85-131		

N56E03.11.862 FILM NO.3014-Z

Ex. 3.60


2/11-4
2/11-1
2/11-3A
TEMPLATE
2/11-6(ST1)
2/11-3
AMOCO
2/11 NORSK HYDRO
NORWEGIAN WATERS
DANISH WATERS
T16 T2
Ex. 3.61



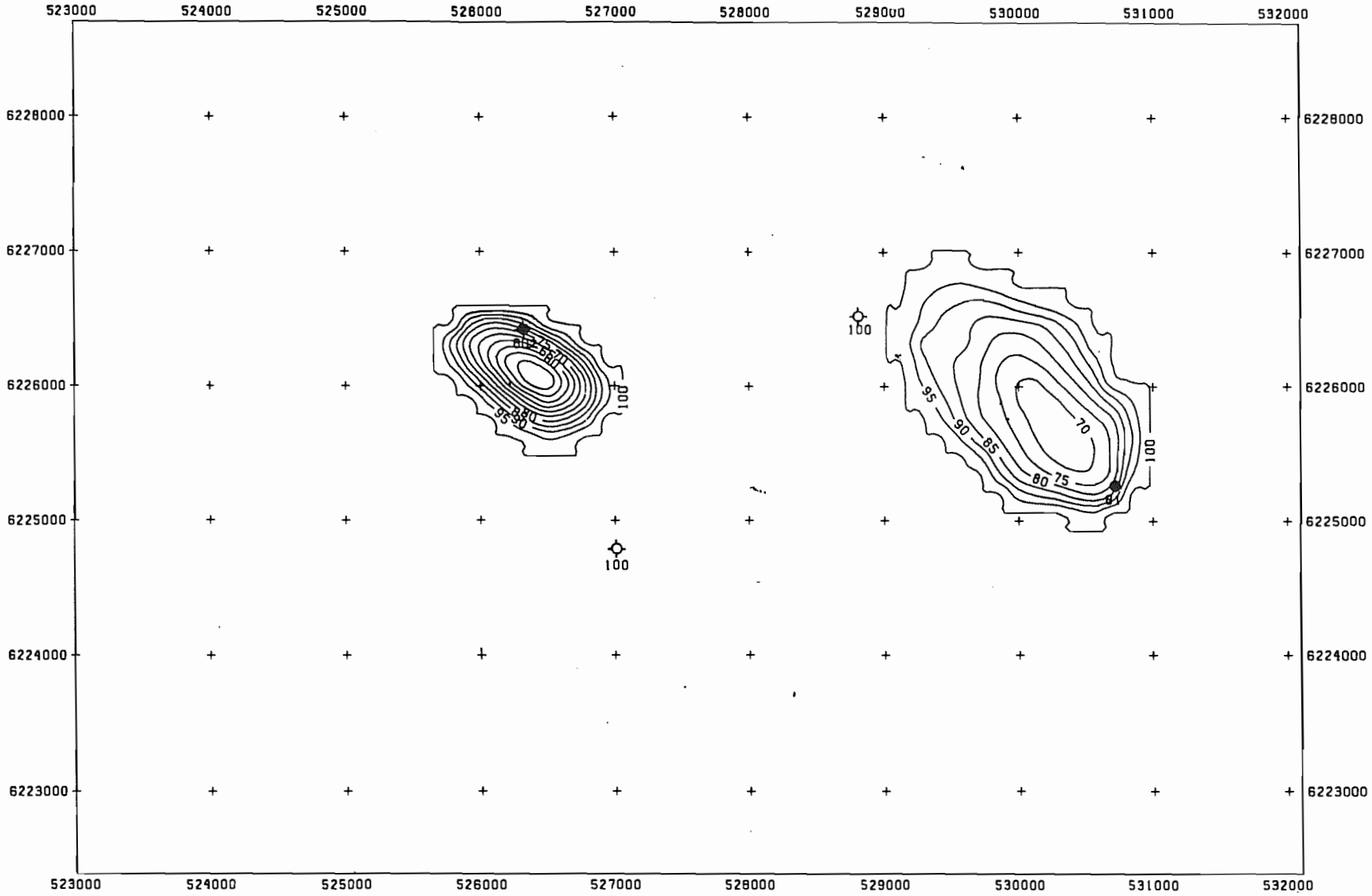
AMØCØ NØRWAY ØIL CØMPANY

H1 GRØSS SW

1:25.000	F. ØEVRDAL	7-23 -85
NØR 85-121		

N56E03.11.862 FILM NO.3014 -D

Ex. 3.62



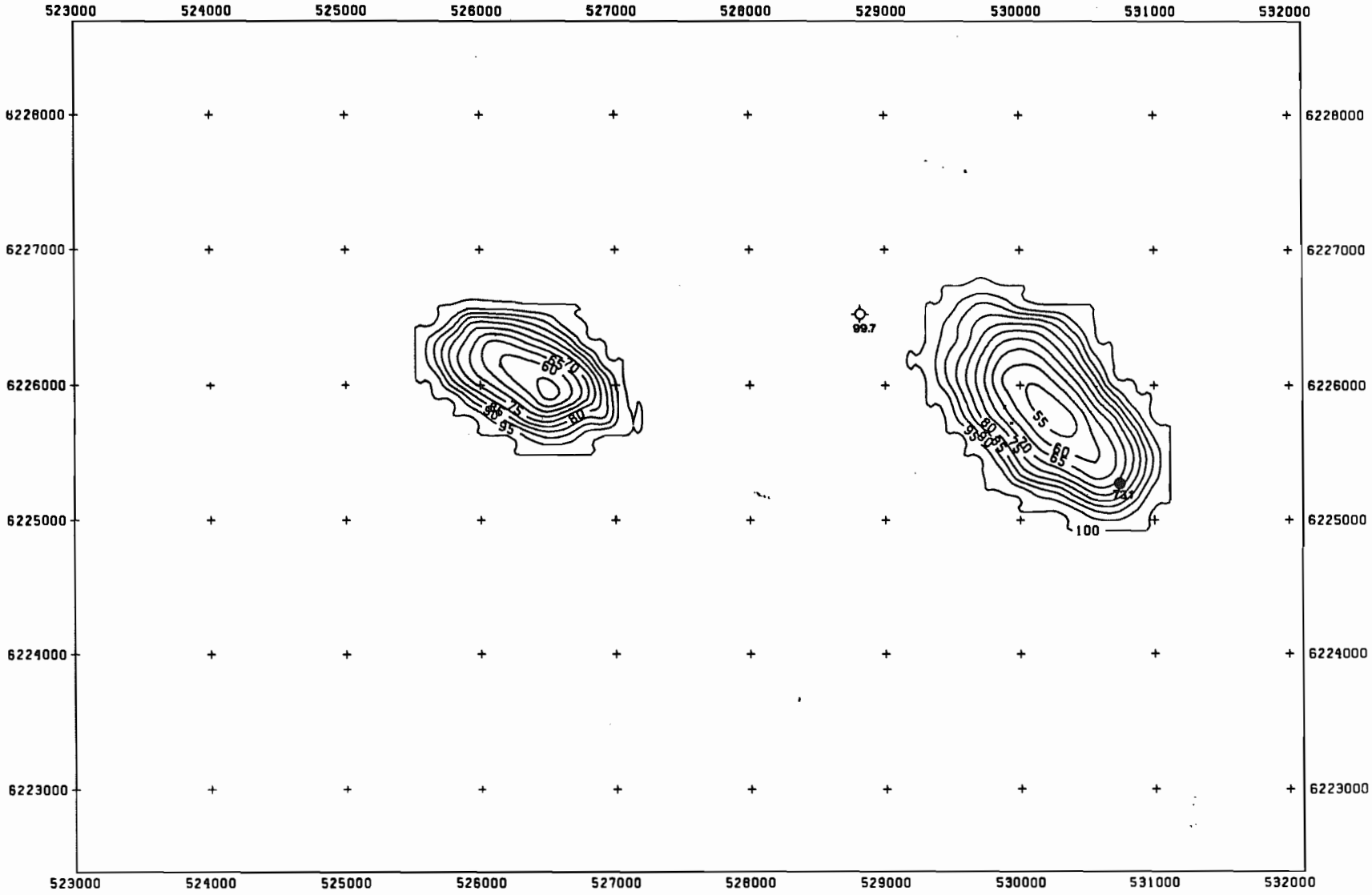
AMØCØ NØRWAY ØIL CØMPANY

H2 GRØSS SW

	F. ØEVRDAL	7-23 -85
NDR 85-122		

N56E03.11.862 FILM NO.3014-H

Ex. 3.63



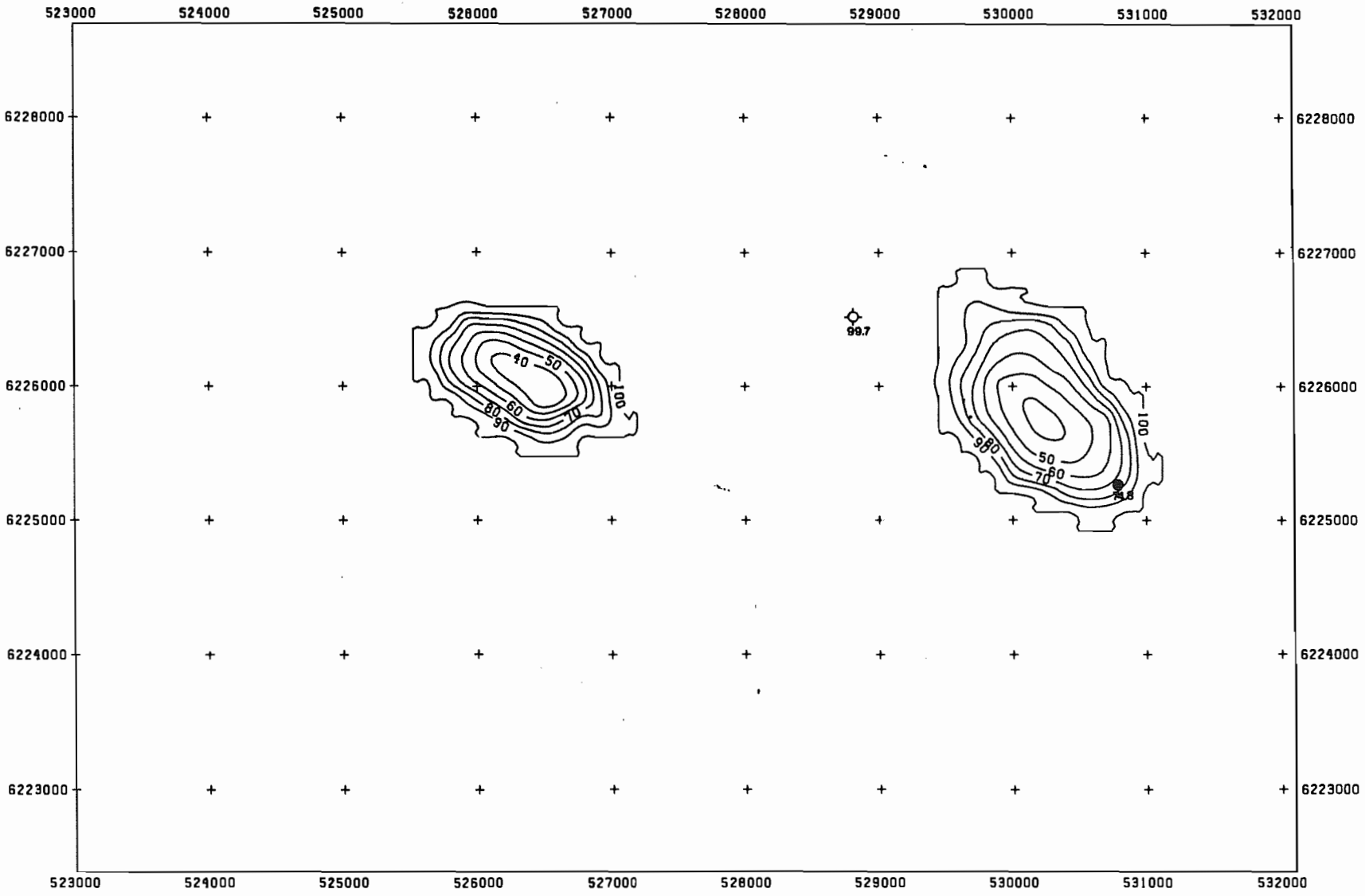
AMØCØ NØRWAY ØIL CØMPANY

H3 GRØSS SW

	F. BEVRØAL	7-24 -85
NØR 85-123		

N56E03.11.862 FILM NO.3014 -B

Ex. 3.64



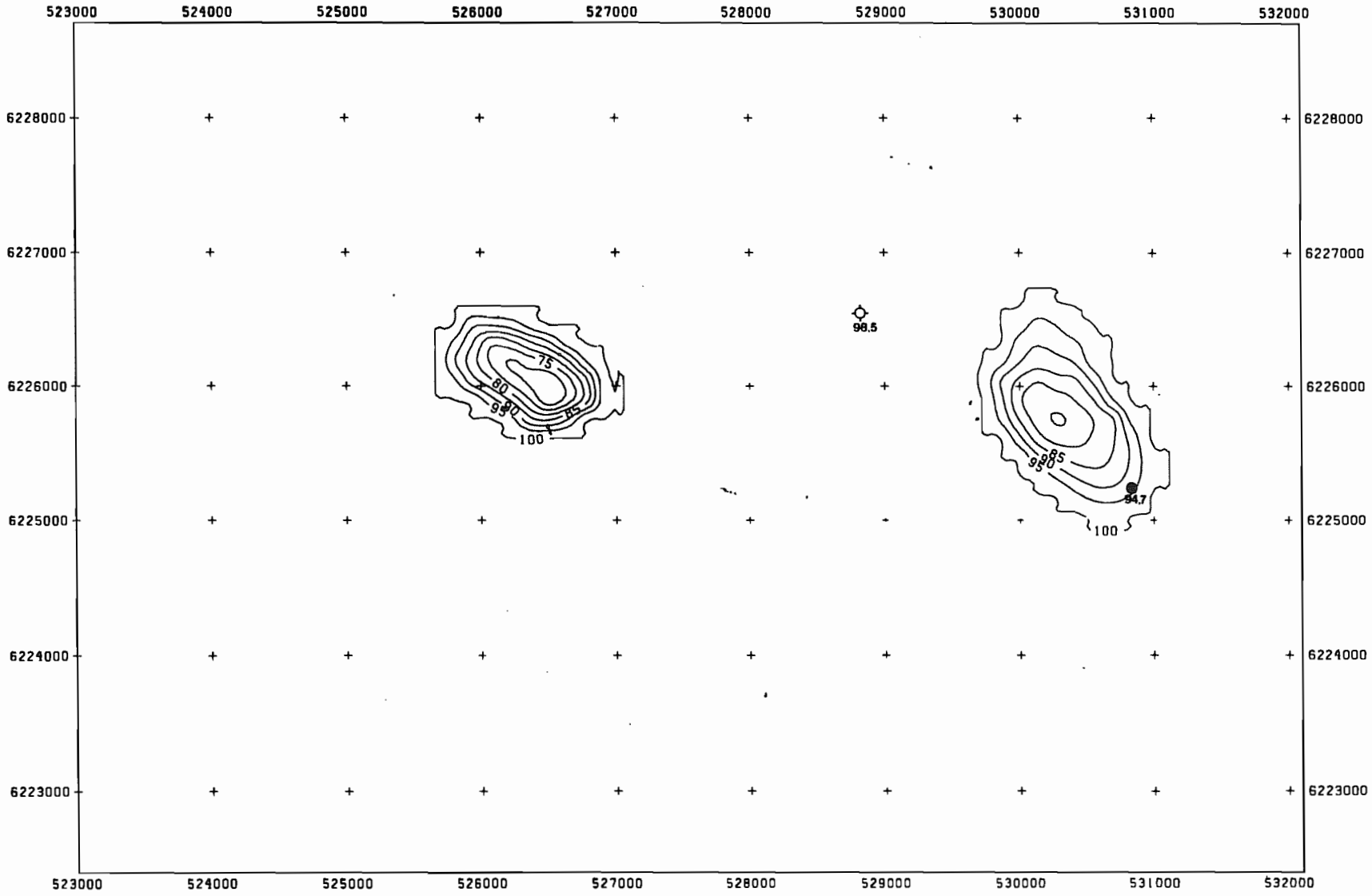
AMØCØ NØRWAY ØIL CØMPANY

H4 GRØSS SW

	F. BEYROAL	7-24 -85
NOR 85-124		

N56E03.11.862 FILM NO.3014-L

Ex. 3.65



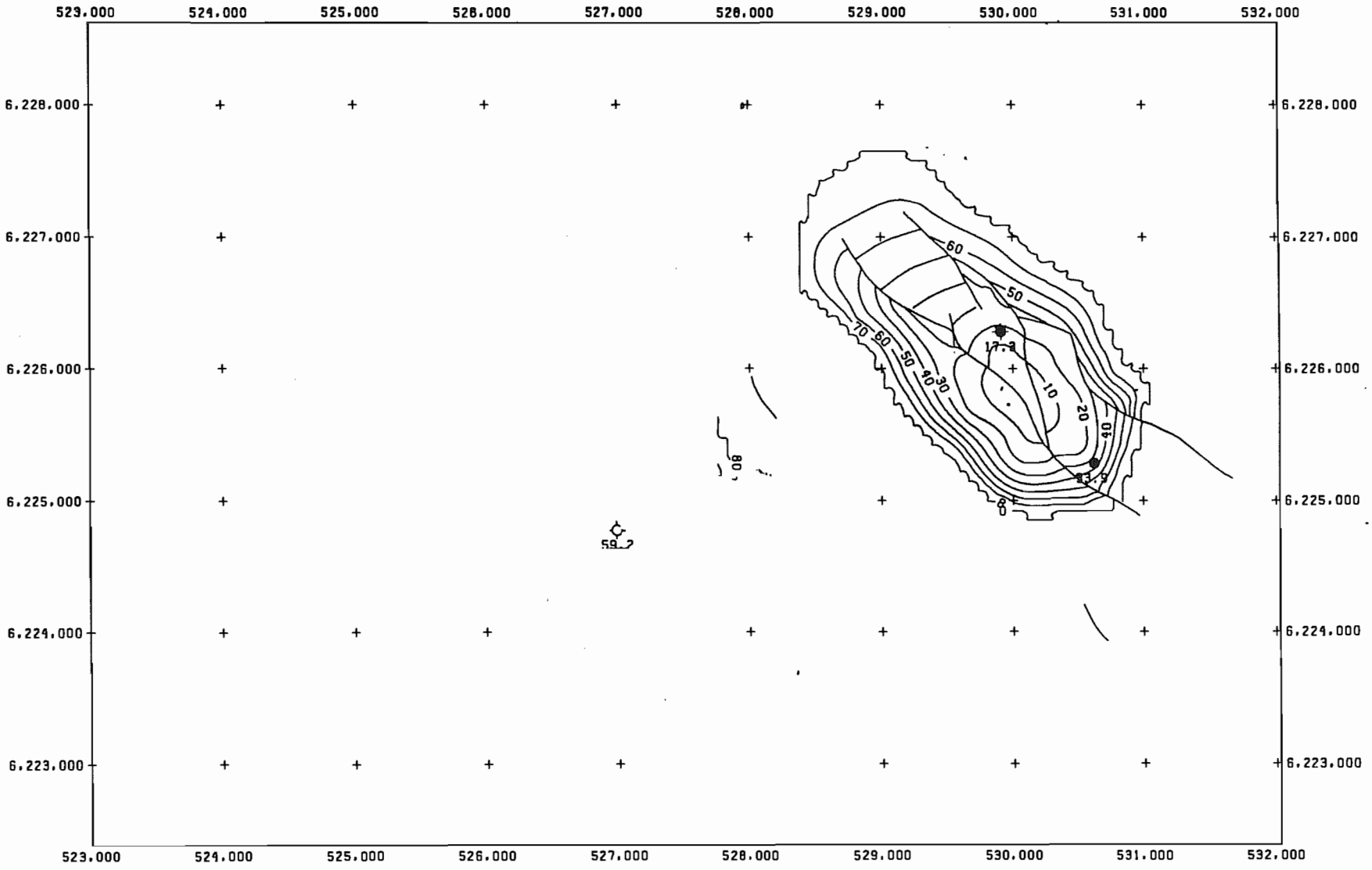
AMØCØ NØRWAY ØIL CØMPANY

H5 6 GRØSS SW

	F. BEVRDAL	7-24 -85
NØR 85-125		

N56E03.11.862 FILM NO.8014-1,

Ex. 3.66



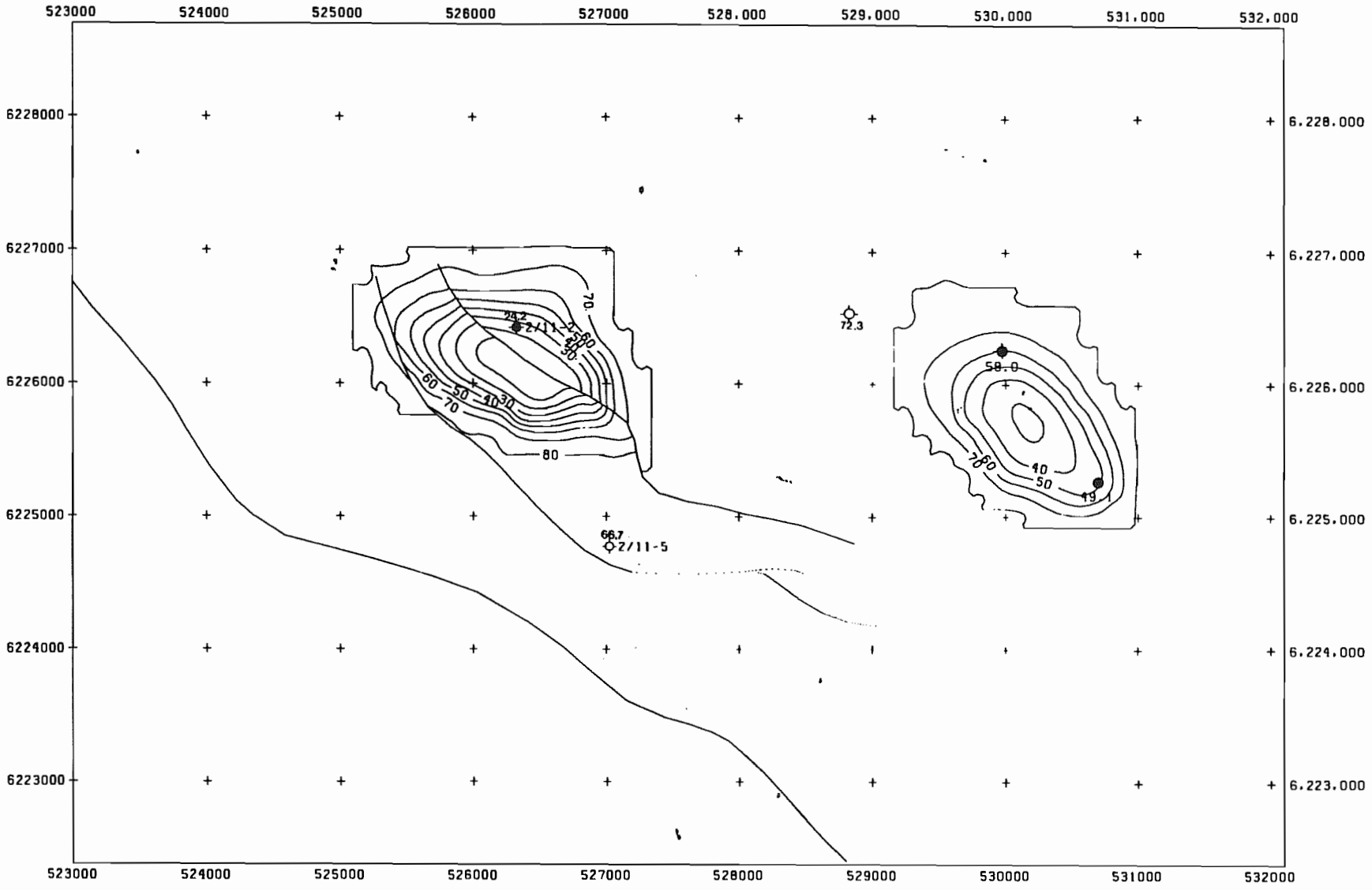
AMØCØ NØRWAY ØIL CØMPANY

TØR NET SW

	F. BEVRDAL	7-17 -85
NGR 85-176		

N56E03.11.852 FILM NO.3013H

Ex. 3.67



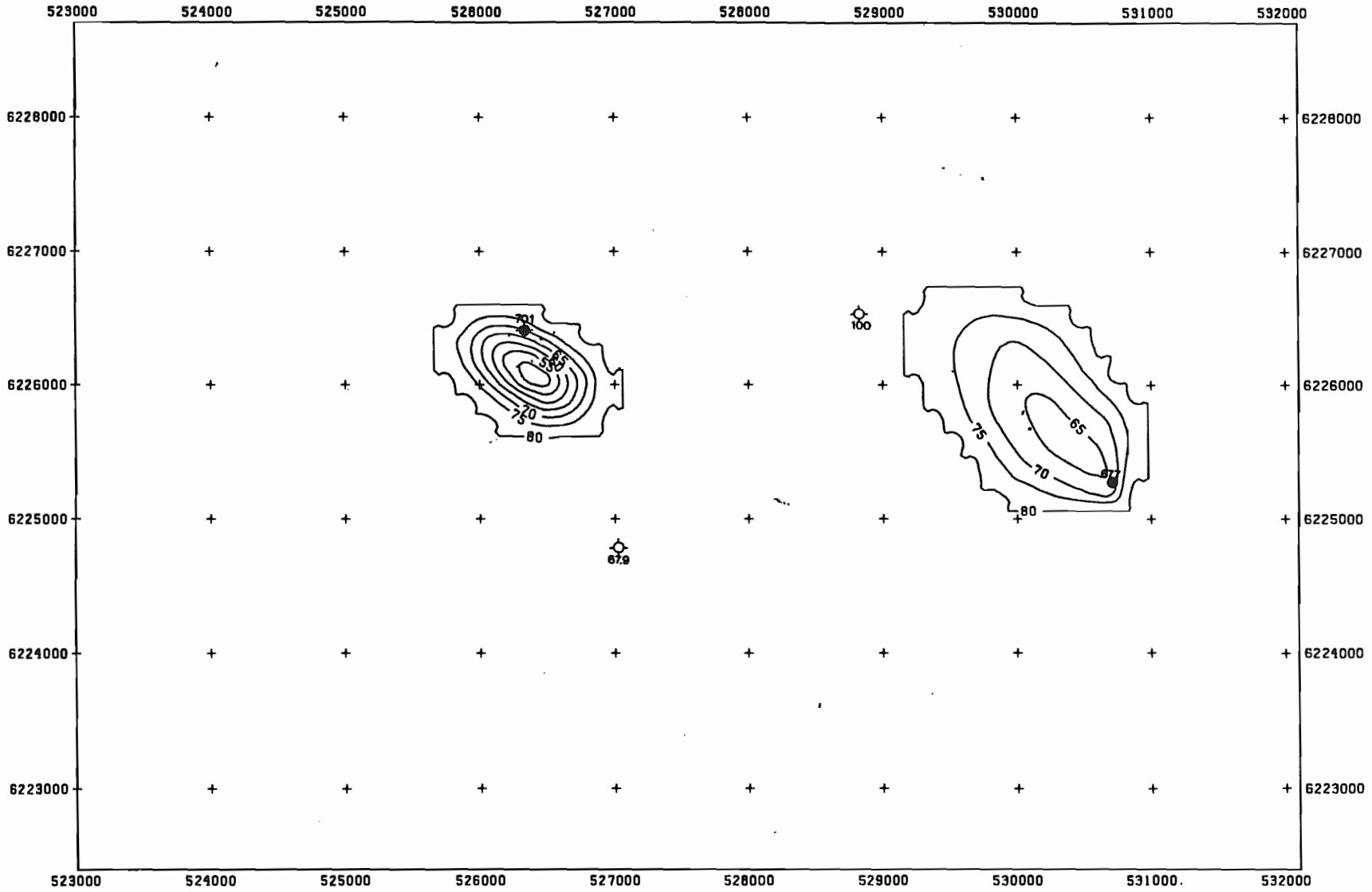
AMØCØ NØRWAY ØIL CØMPANY

H1 NET SW

	F.ØEVRDAL	8-01 -85
NØR 85-206		

N5603.11.862 FILM NO.3013E

Ex. 3.68



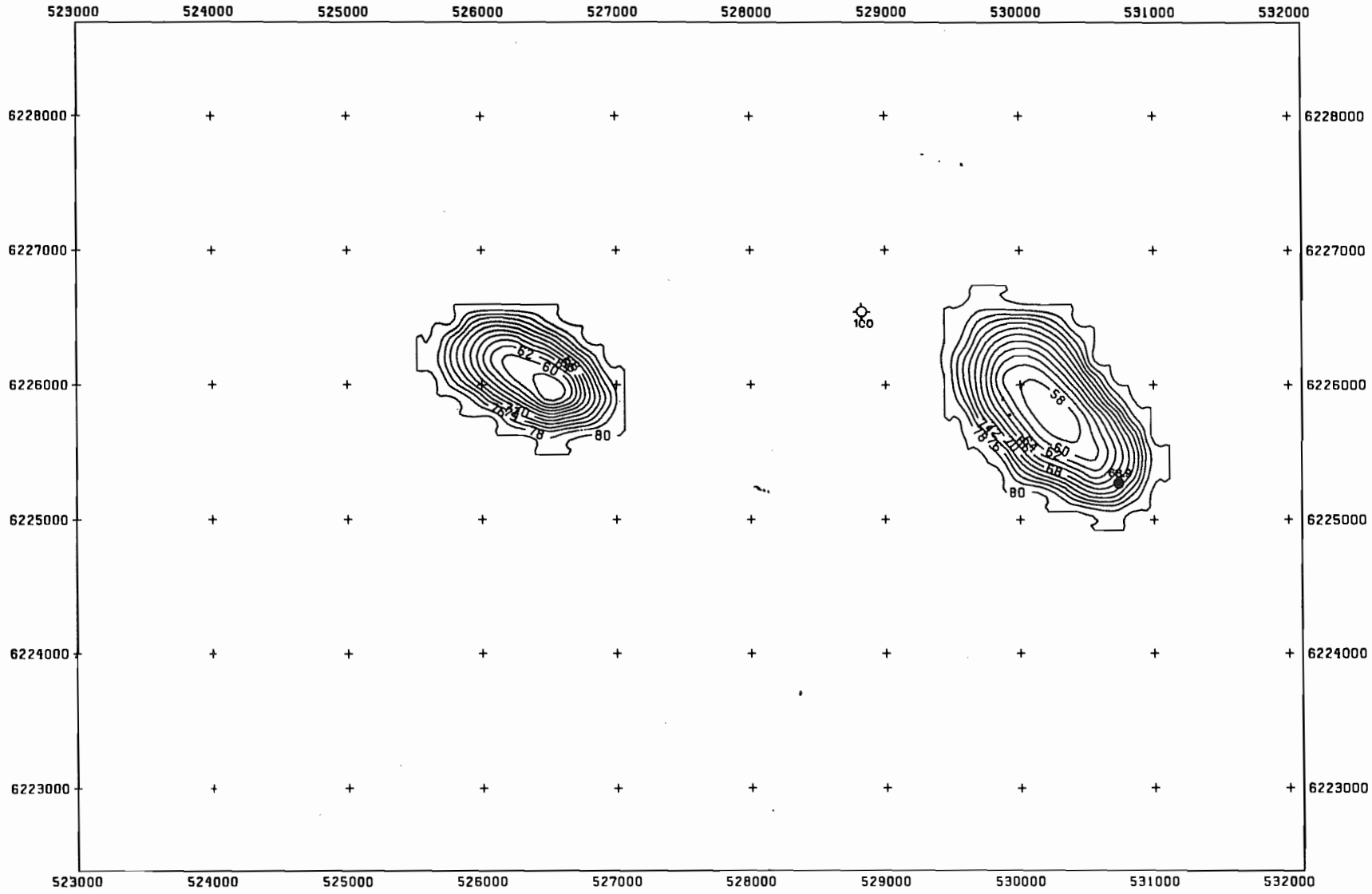
AMØCØ NØRWAY ØIL CØMPANY

H2 NET SW

	F. BEYRDAL	7-18 -85
NGR 85-178		

FILM NO: 3098B

Ex. 3.69



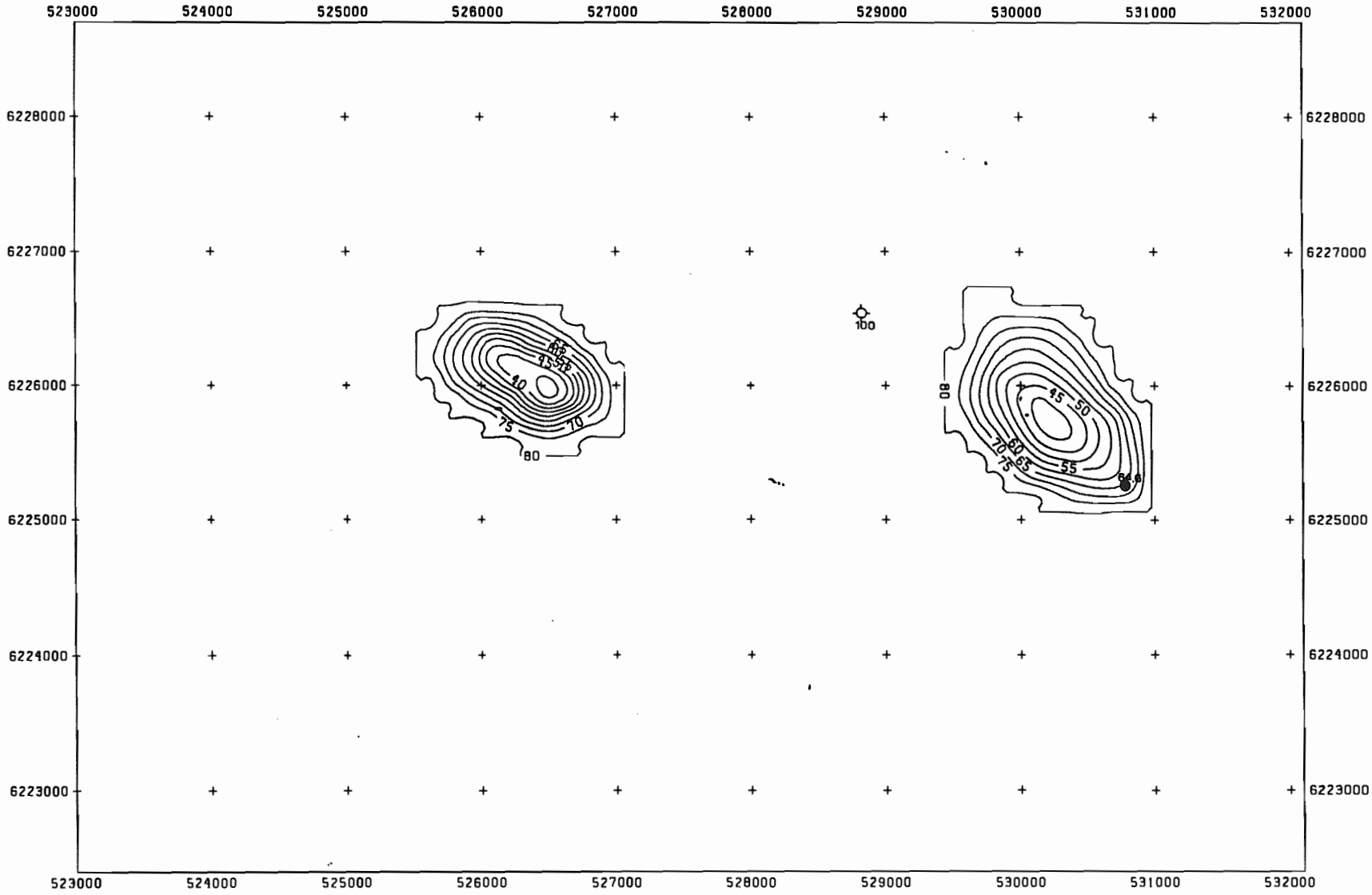
AMØCØ NØRWAY ØIL CØMPANY

H3 NET SW

	F.ØEVRDAL	7-19-85
NØR 85-179		

N56E03.11.852 3013-V

Ex. 3.70



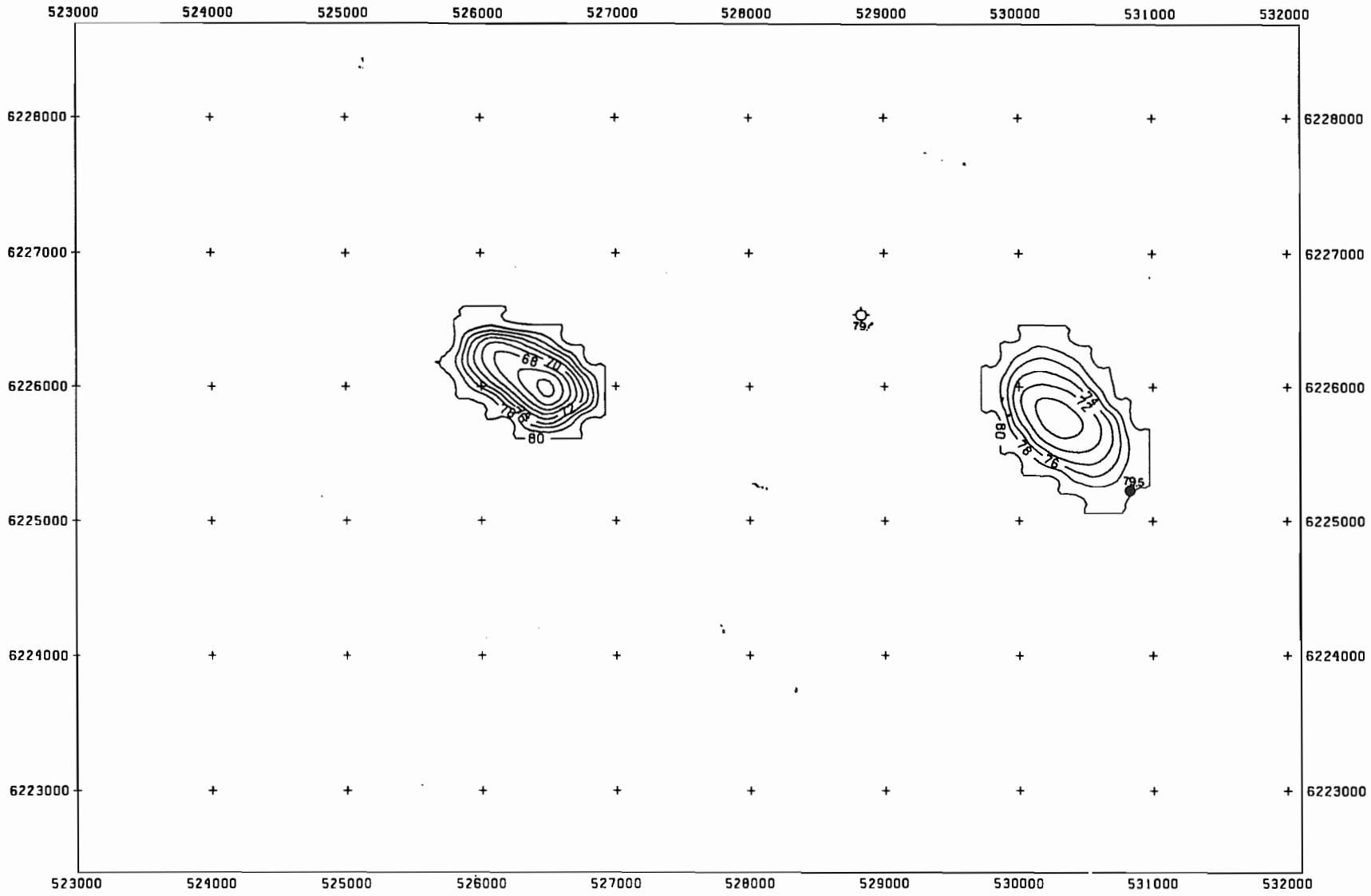
AMØCØ NØRWAY ØIL CØMPANY

H4 NET SW

	F. BEVRDAL	7-18 -85
NOR 85-180		

N56E03.11. 862 FILM NO.3013F

Ex. 3.71



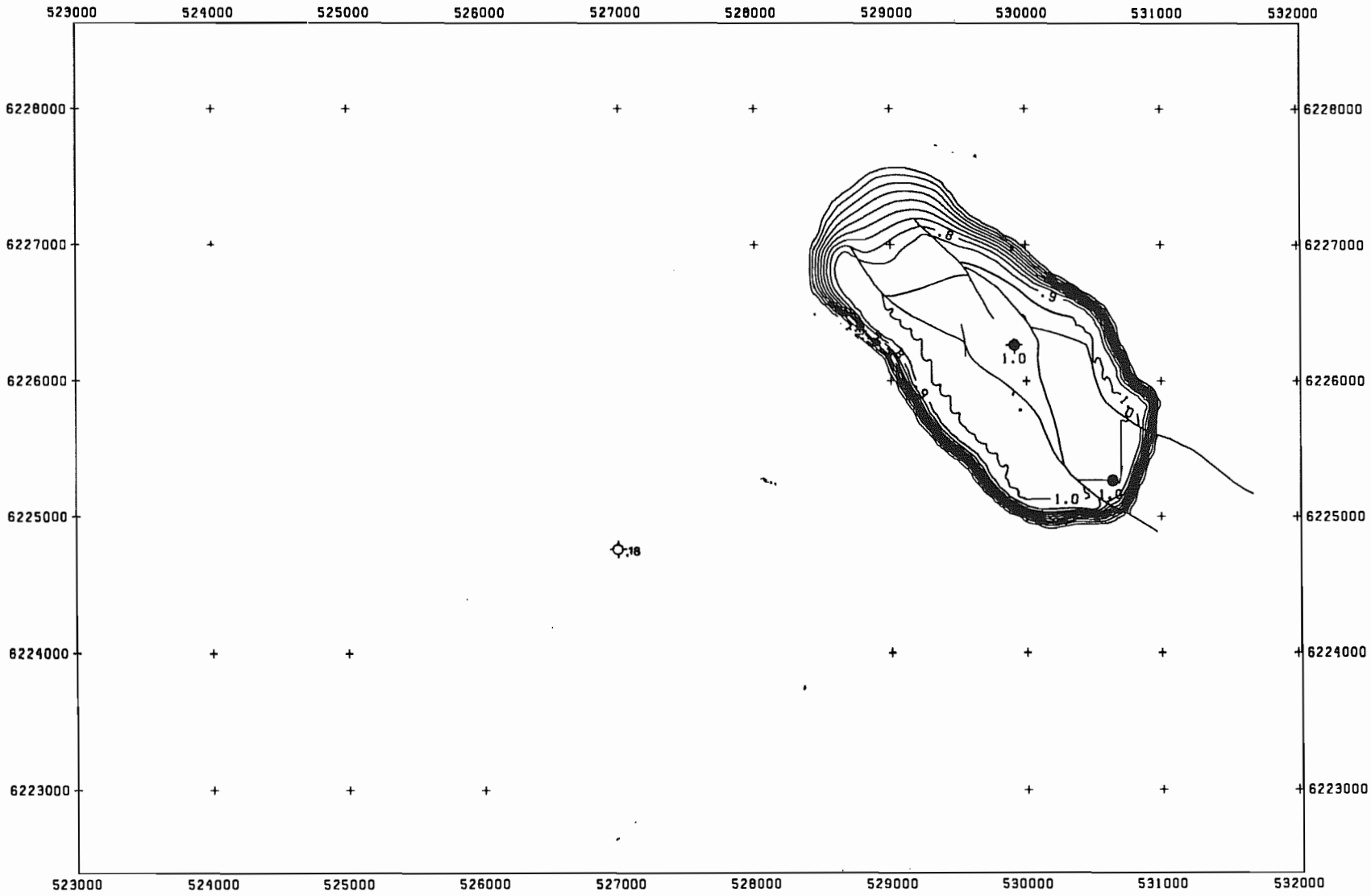
AMØCØ NØRWAY ØIL CØMPANY

H56 NET SW

	F. BEYRDAL	7-19-85
	NØR 85-181	

N56E03.11.862 FILM NO.3013Q

Ex. 3.72



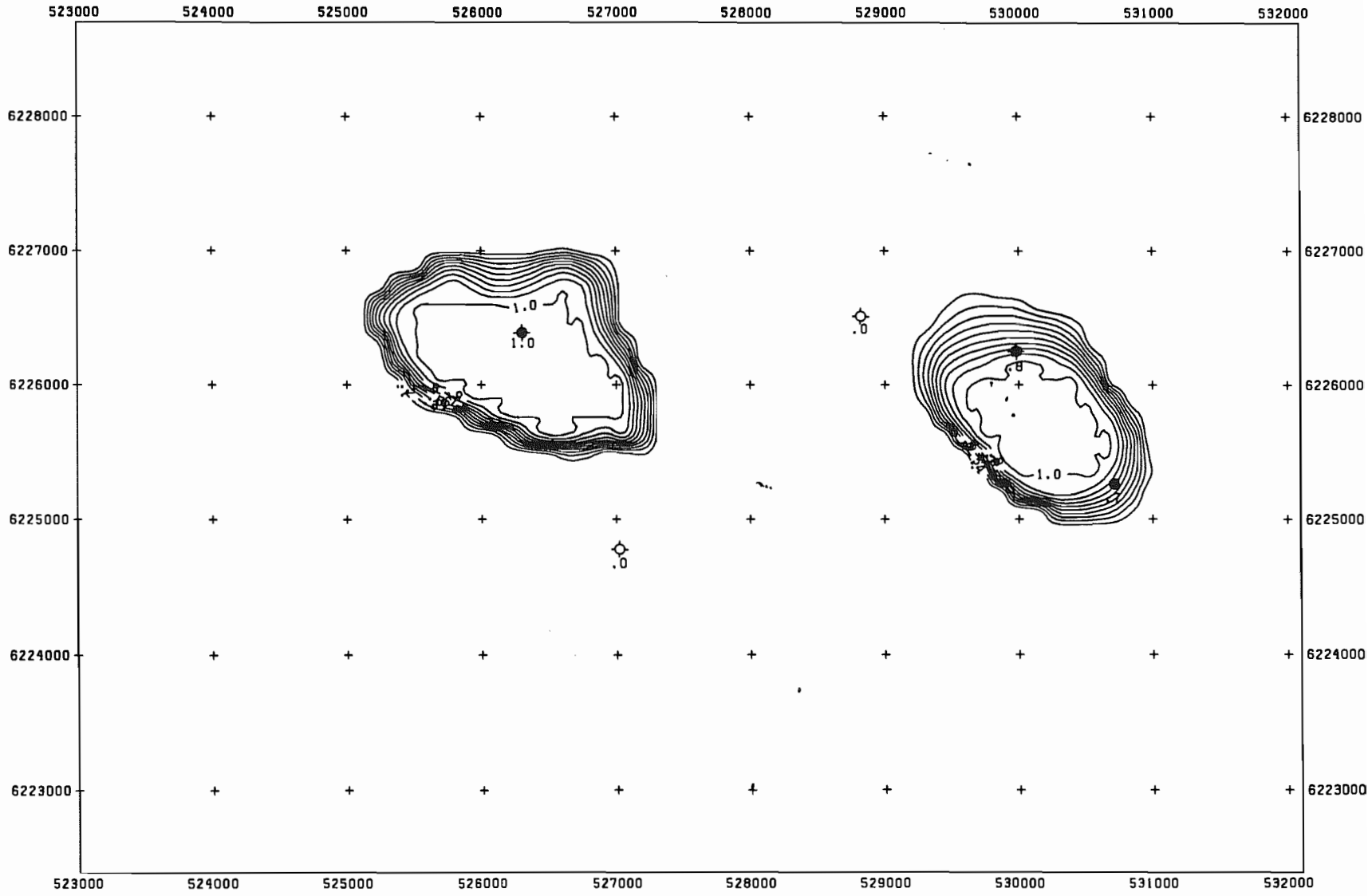
AMØCØ NØRWAY ØIL CØMPANY

TØR NET TØ GRØSS RATIØ

	F. ØEVRDAL	7-25 -85
NØR 85-108		

N56E03.11.852 FILM NO.3014-X

Ex. 3.73



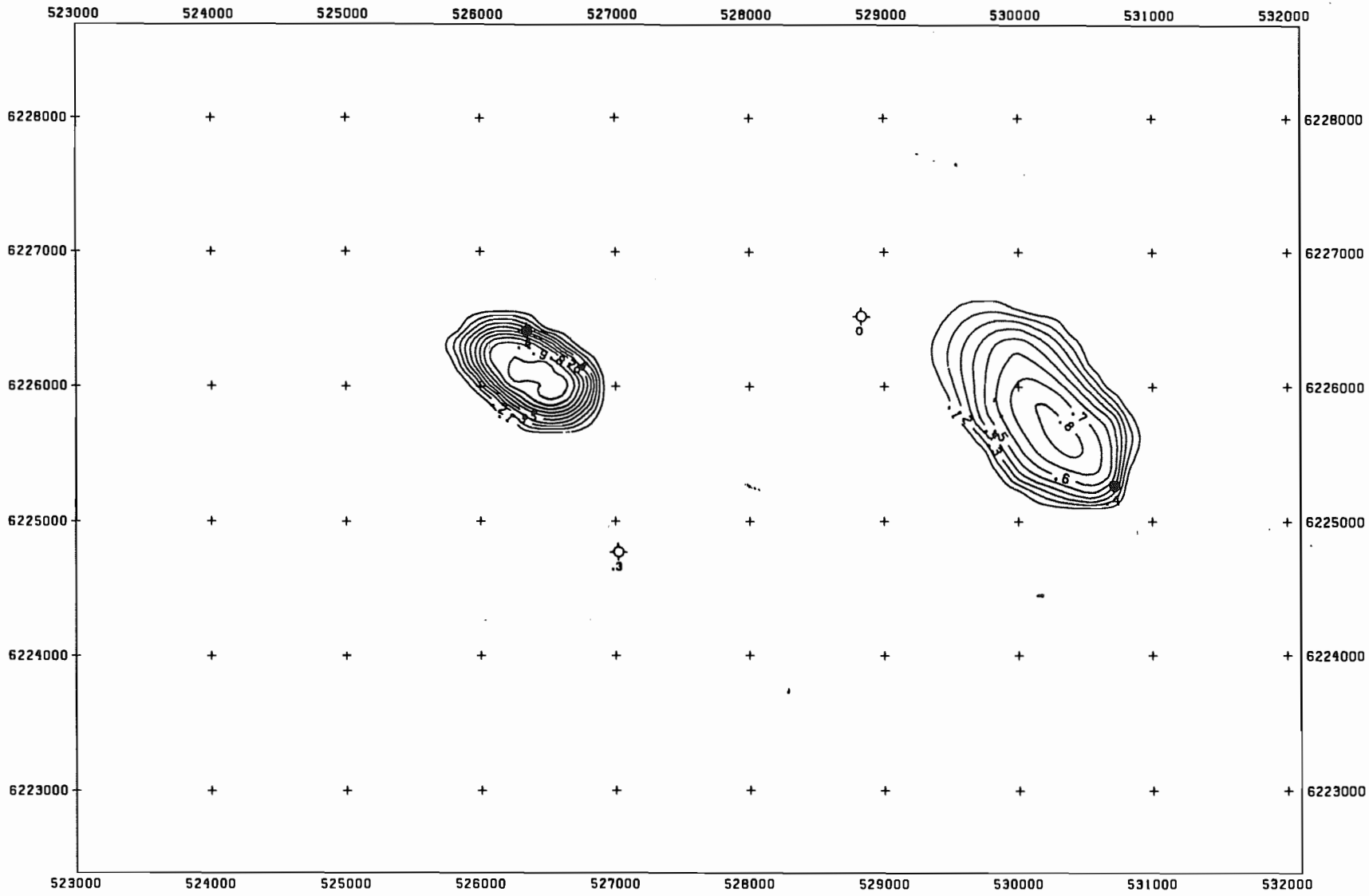
AMØCØ NØRWAY ØIL CØMPANY

H1 NET TØ GRØSS RATIØ

	F.ØEVRDAL	7-18-85
NØR 85-108		

N56E03.11.862 FILM NO.3014-V

Ex. 3.74



AMØCØ NØRWAY ØIL CØMPANY

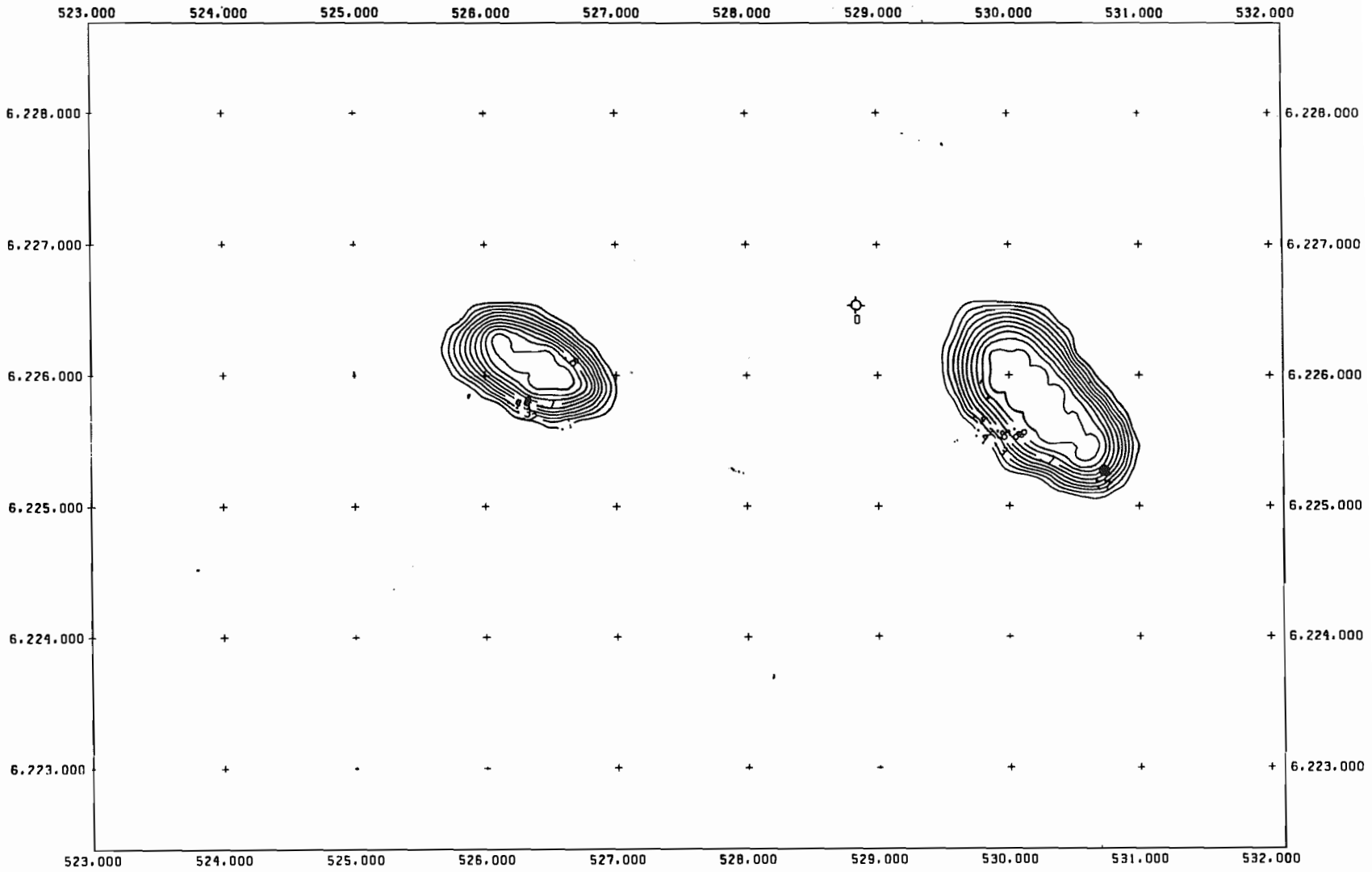
H2 NET TØ GRØSS

F.ØEVRDAL | 7-18-85

NBR 85-109

N56E03.11.851 FILM NO.3014-P

Ex. 3.75



AMØCØ NØRWAY ØIL CØMPANY

H3 NET TØ GRØSS RATIØ

1:25.000 | F.BEVRØAL | 7-22-85

NBR 85-110

N56E03.11.852 FILM NO.3014-F

Ex. 3.76