Date: 26/09/96

PB/SKR

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Well no:	Operator:
34/08-04 S	HYDRO

Well

Coordinates:

61° 19' 29.58" N

UTM coord.:

6799274.11 N

02° 25' 18.67" E

469049.02 E

License no:

120

Permit no:

659

Rig:

MÆRSK JUTLANDER

Rig type:

SEMI-SUB.

Contractor:

MÆRSK DRILLING

Elev. KB:

23 M

Bottom hole temp: Spud. date:

114 °C 90.12.06

Water depth:

310 M 4150 M

Compl. date:

91.06.09

Total depth:

Form. at TD:

Spud. class: Compl. class: **WILDCAT PLUGGED**

Prod.form.:

Seisloca:

NH 8404-171/1171, SP. 10656

Licensees

13.000000 ELF PETROLEUM NORGE AS

18,000000 NORSK HYDRO PRODUKSJON AS

6.000000 SAGA PETROLEUM A.S.

50.000000 DEN NORSKE STATS OLJESELSKAP A.S

13.000000 NORSKE CONOCO A/S

Casing and Leak-off Tests

Туре	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	417.0	36	421.0	
INTERM.	18 5/8	1146.0	24	1451.0	1.58
INTERM.	13 3/8	2161.0	17 1/2	2800.0	1.78
INTERM.	9 5/8	3662.0	12 1/4	3673.0	2.07
OPEN HOLE	7 3,5	4150.0	8 1/2	4150.0	

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Well no:	Operator:
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Conventional Cores

Core no.	Intervals cored	Recovery	%
	meters	m	
1	3005 - 3019.7	14.7	100.0
2	3067 - 3084.6	17.6	100.0
3	3096 - 3122.8	26.8	100.0
4	3123.5 - 3142.6	19.1	100.0
5	3176 - 3188.8	12.8	100.0
6	3190 - 3207.6	17.6	100.0
7	3208 - 3235.7	27.7	100.0
8	3255 - 3272.4	17.4	100.0
9	3276 - 3285.0	9.0	100.0
10	3392 - 3317.7	25.7	100.0
11	3319 - 3332.4	13.4	100.0
12	3333 - 3358.5	25.5	100.0
13	3385 - 3412.0	27.0	100.0
14	3412 - 3438.8	26.8	100.0
15	3439 - 3465.5	26.5	100.0
16	3466 - 3485.5	19.5	100.0
17	4044 - 4071.5	27.5	100.0

Mud

Depth	Mud	Visc.	Mud type
	weight		
420.0	1.05	1.0	WATER BASED
500.0	1.00	1.0	WATER BASED
1165.0	1.05	1.0	WATER BASED
1186.0	1.20	14.0	WATER BASED
1488.0	1.20	14.0	WATER BASED
1846.0	1.40	29.0	WATER BASED
2180.0	1.40	23.0	WATER BASED
2204.0	1.40	21.0	WATER BASED
2300.0	1.45	24.0	WATER BASED
2331.0	1.45	23.0	WATER BASED
2518.0	1.50	24.0	WATER BASED
2656.0	1.55	28.0	WATER BASED
2767.0	1.60	34.0	WATER BASED
2819.0	1.65	33.0	WATER BASED
2835.0	1.70	32.0	WATER BASED
2899.0	1.65	39.0	WATER BASED
2927.0	1.65	34.0	WATER BASED

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Well no:	Operator:
34/08-04 S	HYDRO

2945.0	1.70	30.0	WATER BASED
3005.0	1.65	34.0	WATER BASED
3021.0	1.65	34.0	WATER BASED
3050.0	1.70	28.0	WATER BASED
3057.0	1.70	27.0	WATER BASED
3067.0	1.65	33.0	WATER BASED
3085.0	1.65	34.0	WATER BASED
3105.0	1.65	30.0	WATER BASED
3124.0	1.65	30.0	WATER BASED
3134.0	1.70	24.0	WATER BASED
3144.0	1.65	40.0	WATER BASED
3150.0	1.70	21.0	WATER BASED
3160.0	1.70	30.0	WATER BASED
3173.0	1.65	40.0	WATER BASED
3184.0	1.70	25.0	WATER BASED
3187.0	1.65	39.0	WATER BASED
3208.0	1.65	40.0	WATER BASED
3233.0	1.65	42.0	WATER BASED
3236.0	1.65	38.0	WATER BASED
3255.0	1.70	~ 20.0	WATER BASED
3258.0	1.70	20.0	WATER BASED
3412.0	1.65	38.0	WATER BASED
3439.0	1.64	38.0	WATER BASED
3486.0	1.65	40.0	WATER BASED
3518.0	1.65	37.0	WATER BASED
3560.0	1.59	20.0	WATER BASED
3561.0	1.65	35.0	WATER BASED
3615.0	1.65	34.0	WATER BASED
3671.0	1.65	41.0	WATER BASED
3673.0	1.68	42.0	WATER BASED
4150.0	1.59	20.0	WATER BASED

Drill Stem Test (intervals and pressures)

Test	Test interval	Choke	Pressure (psi)	ВТНР	FFP
110.	meter	size	WHP		
1.0	3219.0 - 3241.0	15.8	2509	4205	
2.1	3133.0 - 3143.0	17.4	3611	6134	
2.2	3066.0 - 3142.0	20.6	3393	6366	
3.0	3000.0 - 3017.0	21.4	2958	5728	~
4.0	2903.0 - 2917.0	25.4	952	1982	

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Well no:	Operator:
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Drill Stem Test (recovery)

Test	Oil	Gas	Oil grav.	Gas grav.	GOR
110.	Sm3/d	Sm3/d	g/cm3	rel. air	m3/m3
1.0	441	410200	0.782	0.728	930
2.1	754	605000	0.788	0.734	803
2.2	985	792000	0,785	0.739	805
3.0	908	708000	0.777	0.738	781
4.0	205	480000	0.770	0.690	2418

Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	1170 - 4150	660
CUTTINGS	1100 - 4140	540

Shallow Gas

Interval below KB	Remarks
DCION RD	

Available Logs

Log type	Intervals logged	1/200	1/500	T
AMS	1149.0 - 3925.0			
CBL VDL CCL GR	2695.0 - 3650.0			
CBL VDL GR	2695.0 - 3500.0			
CDM AP/MSD	3665.0 - 3925.0			
CDM AP/MSD SHDT	2164.0 - 3668.0			
CH RFT HP GR	3230.0 - 3374.0			
DIL LSS SP GR	1142.0 - 2145.0			
DIL LSS SP GR	3659.0 - 3925.0			
DIL LSS SP SGR	2164.0 - 3582.0			

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Well no:	Operator:
34/08-04 S	HYDRO

	1149.0 - 3930.0	***************************************		***************************************
DIL LSS SP SGR MD+TV	1149.U - 393U.U			
DILL MOSEL DILL LIDI CNII	2850.0 - 3929.0			
DLL MSFL DIL LDL CNL	2850.0 - 3226.0	ANTI-SERIES CONTRACTOR		
DLL MSFL SP GR	2164.0 - 3668.0	***************************************	**************************************	
DLL MSFL SP SGR ·	2104.0 - 3006.0		AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	
FMS AMS GR	3659.0 - 3725.0			
FMS AMS SGR	2164.0 - 3669.0			
I'MS AIVIS SUR				
LDL CNL AMS GR	2850.0 - 3215.0			
LDL CNL GR	1149.0 - 2145.0			
LDL CNL NGS	3659.0 - 3929.0			
LDL CNL SGR	2164.0 - 3561.0			
LDL CNL SGR MD+TVD	1149.0 - 3929.0			
MUD	332.0 - 4150.0			
		CELLE COLUMN TO THE COLUMN TO		
MWD	1150.0 - 2177.0	***************************************		
MWD MD+TVD	332.0 - 4150.0			
	2850.0 - 3929.0	Annual Contraction of the Contra		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
NGL	3659.0 - 3929.0	***************************************		
NGS	2164.0 - 3561.0	***************************************		***************************************
NGT RATIO	ZIO4.U - JJOI.U			***************************************
PLT BHS	2700.0 - 3010.0			
PLT BHS	2700.0 - 3150.0			
PLT SURVEY	3050.0 - 3153.0			
RFT HP AMS GR	2907.0 - 3231.0			
RFT HP GR	3693.0 - 3897.0			
SYNTHETIC SEISMOGRAM				
TWO-WAY TRAVEL TIME		ANNUAL DESCRIPTION OF THE PROPERTY OF THE PROP		
WELLSITE LITHOLOGY	1050.0 - 2100.0	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		
VSP				

Main operations for well: 34/8-4 S

Total

Total time used:

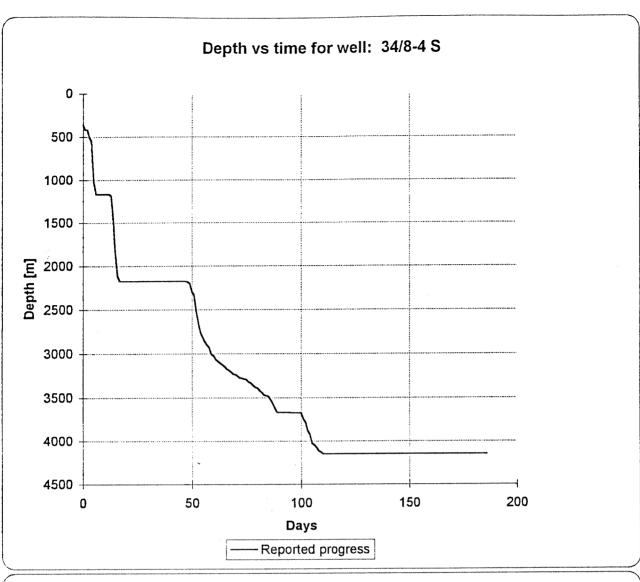
Main operation: DRILLING					
Sub operation:	Minutes:	Hours:	% of total:		
BOP ACTIVITIES	4290	71,5	5,82		
BOP/WELLHEAD EQ	2340	39,0	3,17		
CASING	10230	170,5	13,87		
CIRC/COND	2190	36,5	2,97		
DRILL	27870	464,5	37,79		
HOLE OPEN	1500	25,0	2,03		
OTHER	360	6,0	0,49		
REAM	2430 22530	40,5	3,30		
TRIP Total	73740	375,5 1229,0	30,55 100,00		
		·	100,00		
Main operation: FC	Minutes:	- Hours:	% of total:		
Sub operation: CIRC SAMPLES					
CIRC/COND	1470 1470	24,5 24,5	1,41 1,41		
CORE	15390	24,5 256,5	14,81		
DST	59190	986,5	56,94		
LOG	9390	156,5	9,03		
OTHER	540	9,0	0,52		
RFT/FIT	3210	53,5	3,09		
TRIP	13290	221,5	12,78		
Total	103950	1732,5	100,00		
Main operation: INTERRUPTION					
Sub operation:	Minutes:	Hours:	% of total:		
FISH	83ุ10	138,5	9,78		
MAINTAIN/REP	61530	1025,5	72,45		
OTHER	2670	44,5	3,14		
WAIT	12420	207,0	14,62		
Total	84930	1415,5	100,00		
Main operation: MOVING					
Sub operation:	Minutes:	Hours:	% of total:		
ANCHOR	3780	63,0	50,40		
TRANSIT	3720	62,0	49,60		
Total	7500	125,0	100,00		
Main operation: PLUG & ABANDON					
Sub operation:	Minutes:	Hours:	% of total:		
CEMENT PLUG	540	9,0	10,98		
CIRC/COND	210	3,5	4,27		
EQUIP RECOVERY	1710	28,5	34,76		
MECHANICAL PLUG	360	6,0	7,32		
OTHER	60	1,0	1,22		
TRIP	2040	34,0	41,46		

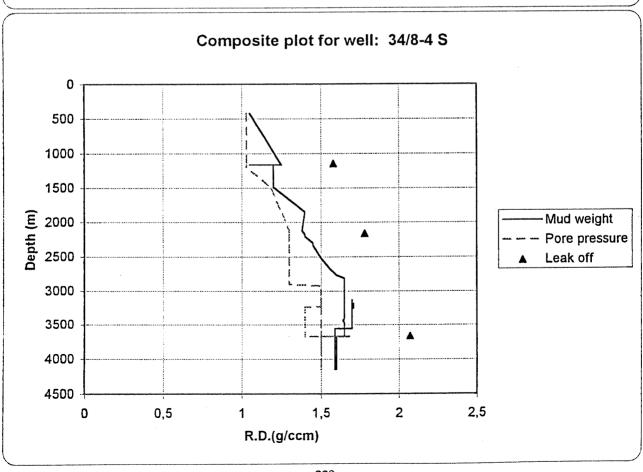
4920

4584,0 Hours

82,0

100,00





Well History 34/8-4 S

General:

Well 34/8-4 S was designed to be drilled as a deviated hole as a consequence of having two different targets. Boulders were expected between 350 m and 395 m RKB. Two intervals with possibility for shallow gas had been identified at 446 m and 477 m RKB. A 8 1/2" pilothole was drilled down to 500 m RKB checking for shallow gas. The main objective for the well was to test the hydrocarbon potential in the Lomvi Formation on the A-structure and thereby fulfill the work commitment on this structural element of the block. The secondary objectives were to:

- 1 test the hydrocarbon potential of the Statfjord and Lunde B/C Formations on the Assouth compartment.
- 2 obtain pressure measurement from the Lunde- and Lomvi Formations in order to evaluate the scaling potential of the Middle- to Late Triassic sequence on the A-

The well was designed for temporary abandonment, and was planned for possible re-use as a subsea producer. In order to fulfill these objectives the well was to be drilled such that:

top Statfjord-, Lunde B-/C- and the Lonwi Formations were penetrated within structural closure.

not more than 10 mill Sm³ oil were lest untested updip. a reliable tie to the seismic could be performed.

Operations:

Wildcat well 34/8-4 S was spudded 6 Desember 1991 by the semi-submersible rig Mærsk Jutlander and completed 9 June 1992 at a depth of 4150 m RKB in rocks of Triassic age. Planned TD at 4478 m MD RKB was not reached due to operational problems. The pipe was backed off at 3936 m RKB and the borehole was logged from this depth and up to the 9 5/8" casing shoe. Hydrocarbons were encountered in the Brent Group, Rannoch sandstones, and in thickly developed Triassic sandstones of the Hegre Group's Lunde Formation. No fluid contacts were observed in either groups. The Lonvi Formation proved to be waterbearing. A total of seventeen cores were cut, sixteen in the Lunde Formation and one in the Lonvi Formation. A total of 60 sidewall cores were attempted in two runs, and 37 were recovered. No boulders or shallow gas was encountered while drilling the 8 1/2" pilot hole. The well was plugged and abandoned as a gas and condensate discovery.

Testing:

Five DST tests were performed in this well.

Geological Tops.

Well:.34/8-4S

VV CII54/0-45	Depth m (RKB).
Nordland Group	355.0
Utsira Fm	1071.0
Hordaland Group	1108.0
Grid Fm	1488.0
Undefined	1552.0
Rogaland Group	1819.0
Balder Fm	1819.0
Sele Fm	1861.5
Lista Fm	1874.5
Shetland Group	2030.0
Jorsalfare Fm	2030.0
Kyrre Fm	2242.0
Cromer Knoll Group	2899.0
Mime FM	2899.0
Viking Group	2902.0
Draupne FM	2902.0
Brent Group	2903.0
Rannoch Fm	2903.0
Broom Fm	2922.0
Dunlin Group	2923.5
Drake Fm.	2923.5
Triassic Group	2937.5
Lunde Fm.	2937.5
Lomvi Fm.	3947.0
Teist Fm.	4133.0
T.D.	4150.0