

WDSS Report

Date: 26/03/98

PB/SKR

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Well no:	Operator:
34/08-08	HYDRO

Well

Coordinates :	61° 22' 46.19" N 02° 28' 43.81" E	UTM coord. :	6805332.03 N 472148.13 E
License no :	120	Permit no :	730
Rig :	TRANSOCEAN 8	Rig type :	SEMI-SUB.
Contractor :	TRANSOCEAN ASA		
Bottom hole temp:	117 °C	Elev. KB :	23 M
Spud. date :	92.06.30	Water depth :	341 M
Compl. date :	92.08.24	Total depth :	3625 M
Spud. class :	APPRAISAL	Form. at TD :	
Compl. class :	SUSP.	Prod.form. :	
Seisloca :	NH-9001-3D, ROW 925, COL. 585		

Licensees

13.000000 ELF PETROLEUM NORGE AS
18.000000 NORSK HYDRO PRODUKSJON AS
6.000000 SAGA PETROLEUM ASA
50.000000 DEN NORSKE STATS OLJESELSKAP A.S
13.000000 NORSKE CONOCO A/S

Casing and Leak-off Tests

Type	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	451.0	36	452.0	
INTERM.	13 3/8	1351.0	17 1/2	1353.0	1.66
INTERM.	9 5/8	2765.0	12 1/4	2766.0	1.82
LINER	7	3170.0	8 1/2	3625.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	2885.0 - 2912.0	27.0	100.0
2	2912.0 - 2919.0	7.0	100.0
3	2920.5 - 2948.0	27.5	100.0
4	2948.0 - 2975.8	27.8	100.0
5	2976.5 - 3004.1	27.6	100.0
6	3004.0 - 3031.5	27.5	100.0
7	3031.5 - 3066.9	35.4	100.0
8	3068.5 - 3083.0	14.5	100.0
9	3503.0 - 3517.2	14.2	100.0
10	3567.4 - 3575.2	7.8	100.0

Mud

Depth	Mud weight	Visc.	Mud type
432.0	1.03	14.0	WATER BASED
452.0	1.06	14.0	WATER BASED
621.0	1.20	24.0	WATER BASED
900.0	1.20	23.0	WATER BASED
1112.0	1.05	13.0	WATER BASED
1348.0	1.40	14.0	WATER BASED
1360.0	1.40	24.0	WATER BASED
1364.0	1.40	14.0	WATER BASED
1364.0	1.20	24.0	WATER BASED
1390.0	1.39	12.0	WATER BASED
1392.0	1.40	20.0	WATER BASED
1399.0	1.40	20.0	WATER BASED
1430.0	1.40	19.0	WATER BASED
1512.0	1.41	26.0	WATER BASED
1767.0	1.40	25.0	WATER BASED
2179.0	1.47	29.0	WATER BASED
2459.0	1.47	28.0	WATER BASED
2765.0	1.47	30.0	WATER BASED
2885.0	1.63	29.0	WATER BASED
2916.0	1.63	30.0	WATER BASED
2948.0	1.63	33.0	WATER BASED
2990.0	1.66	28.0	WATER BASED
3006.0	1.60	37.0	WATER BASED
3032.0	1.63	29.0	WATER BASED
3074.0	1.63	33.0	WATER BASED
3109.0	1.68	30.0	WATER BASED

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3114.0	1.63	32.0	WATER BASED
3172.0	1.70	30.0	WATER BASED
3300.0	1.63	33.0	WATER BASED
3475.0	1.60	31.0	WATER BASED
3516.0	1.60	34.0	WATER BASED
3567.0	1.60	34.0	WATER BASED
3575.0	1.60	32.0	WATER BASED
3625.0	1.60	34.0	WATER BASED

Drill Stem Test (intervals and pressures)

Test no.	Test interval meter	Choke size	Pressure (psi) WHP	BTHP	FFP
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Drill Stem Test (recovery)

Test no.	Oil Sm3/d	Gas Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3
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Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
CUTTINGS	1350 - 3625	360
WET SAMPLES	1370 - 3620	440

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500	
CDM AP MSD	2764.0 - 3622.0			
CST GR	2830.0 - 3596.0			

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DIL LSS GR	360.0 - 2735.0			
DIL LSS GR CAL AMS	360.0 - 3735.0			
DIL LSS SGR	2764.0 - 3622.0			
DIP LOG	.0 - 3615.0			
DLL MSFL GR AMS SP	2764.0 - 3294.0			
DRILLING DATA	390.0 - 3610.0			
FMI GR	2764.0 - 3622.0			
FMI GR MSD	2764.0 - 3622.0			
LDL CNL GR AMS	2764.0 - 3282.0			
LDL CNL NGL	2764.0 - 3606.0			
LDL CNL SGR	2764.0 - 3606.0			
MWD LOG	364.0 - 3625.0			
NGS RATIOS	2764.0 - 3606.0			
NMRT	2992.0 - 3110.0			
RFT HP	2922.0 - 3256.0			
RFT HP GR	2983.0 - 3503.0			
SITE SURVEY				
SUMS GR	2860.0 - 3105.0			
SYNTHETIC SEISMOGRAM				
TWO WAY TRAVEL TIME				
VSP				

Main operations for well: 34/8-8**Main operation: DRILLING**

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	1470	24,5	4,47
BOP/WELLHEAD EQ	1470	24,5	4,47
CASING	7350	122,5	22,35
CIRC/COND	870	14,5	2,65
DRILL	13830	230,5	42,06
REAM	270	4,5	0,82
TRIP	7620	127,0	23,18
Total	32880	548,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	90	1,5	0,49
CIRC/COND	600	10,0	3,24
CORE	6090	101,5	32,90
LOG	4680	78,0	25,28
RFT/FIT	990	16,5	5,35
TRIP	6060	101,0	32,74
Total	18510	308,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	3510	58,5	17,06
MAINTAIN/REP	6180	103,0	30,03
OTHER	7740	129,0	37,61
SIDETRACK	3000	50,0	14,58
WAIT	150	2,5	0,73
Total	20580	343,0	100,00

Main operation: MOVING

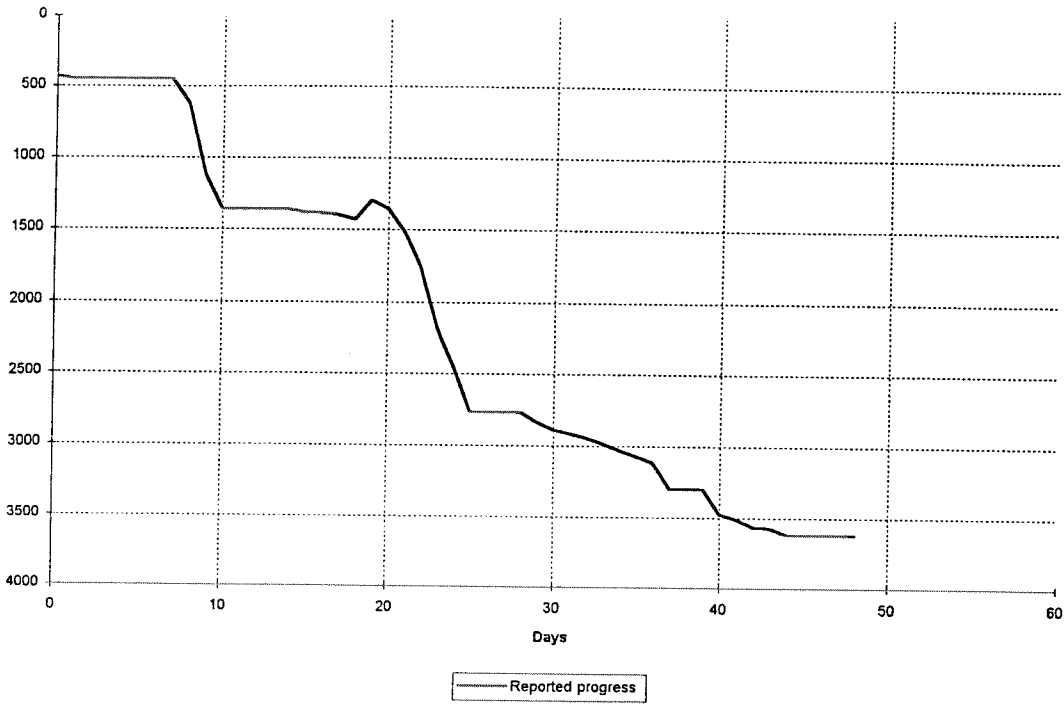
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	3060	51,0	31,88
TRANSIT	6540	109,0	68,13
Total	9600	160,0	100,00

Main operation: PLUG & ABANDON

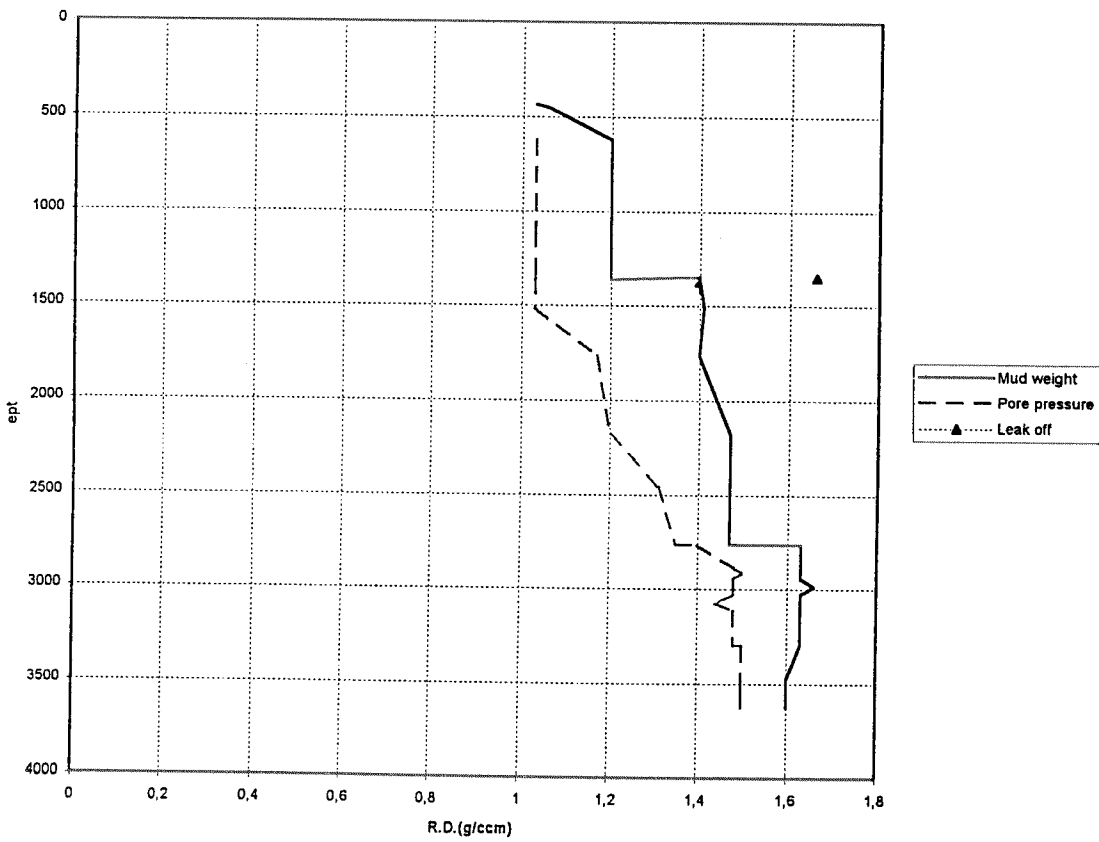
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	450	7,5	23,08
CIRC/COND	360	6,0	18,46
EQUIP RECOVERY	240	4,0	12,31
TRIP	900	15,0	46,15
Total	1950	32,5	100,00

Total time used: Hours

Depth v.s. time plot for well: 34/8-8



Composite plot for well: 34/8-8



WELL HISTORY 34/8-8

GENERAL:

Well 34/8-8 was designated to appraise the N-1 segment of the Visund A-North structure. The N-1 segment is estimated to contain approximately 30% of the resources in the Brent- North area. Confirmation of these resources was critical for reservoir management and production layout in future development plans. The primary objectives of the well were:

- To confirm the resources of the Brent Group reservoir in the N-1 segment of structure.
- To obtain data that could be used in reservoir engineering studies on improved oil recovery.

Secondary targets were evaluations of the Statfjord Formation and the Lunde B/C Formation.

OPERATION:

The well was spudded on the 25 October 1992 by the semi submersible rig "West Delta" and was completed the 28th December 1992 in rocks of Triassic age.

Ten conventional cores were cut in the well. Eight cores were cut to include the entire Brent Group and two cores were taken in the Hegre Group. The Brent Group was encountered from 2921m to 3077m.

Wireline logs confirmed an OWC at 2971m RKB, while RFT pressure tests suggested a free water level between 2973.4m and 2976.8m. From a gross Brent Group thickness of 156m, a net pay thickness of 97m. was identified. An average porosity of 20.6% and average Sw of 34.7% were computed for the Brent Group oil zone. The Cook Formation, from 3122.5m to 3260m, was found to be totally water wet. Similarly, the Amundsen Formation, occurring between 3287m and 3387.5m, was devoid of hydrocarbons. Statfjord Formation occurred from 3387.5m to 3475m. From a gross thickness of 87.5m, a total net sand thickness of 46.25m was recognised. The Lunde Formation was encountered between 3475m and the T.D of the well at 3625m, and was found to be water wet throughout.

The well was temporarily plugged and abandoned with the provision for further testing.

TESTING:

No DST tests were performed in this well.

Geological Tops.

Well: 34/8-8.

	Depth m (RKB).
Nordland Group	364.0
Utsira Fm	1115.0
Hordaland Group	1164.0
Rogaland Group	1829.0
Balder Fm	1829.0
Sele Fm	1865.0
Lista Fm	1873.0
Shetland Group	1998.0
Jorsalfare Fm	1998.0
Kyrre Fm	2231.5
Cromer Knoll Group	2877.0
Sola Fm	2877.0
Åsgard Fm	2883.0
Viking Group	2900.5
Draupne Fm	2900.5
Heather Fm	2902.0
Brent Group	2921.0
Tarbert Fm	2921.0
Ness Fm	2935.0
Etive Fm	2967.0
Rannoch Fm	3007.5
Dunlin Group	3077.0
Drake Fm	3077.0
Cook Fm	3122.5
Burton Fm	3260.0
Amundsen Fm	3287.0
Statfjord Fm	3387.0
Hegre Group	3475.0
Lunde Fm.	3475.0
T.D.	3625.0