

WDSS Report

Date: 26/03/98

PB/SKR

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Well no:	Operator:
34/10-36	STATOIL

Well

Coordinates :	61° 06' 48.49" N 02° 10' 35.15" E	UTM coord. :	6775866.39 N 455614.12 E
License no :	50	Permit no :	723
Rig :	DEEPSEA BERGEN	Rig type :	SEMI-SUB.
Contractor :	ODFJELL DRILLING AND CONSULTING COMPANY A/S		
Bottom hole temp:	120°C	Elev. KB :	23 M
Spud. date :	92.04.28	Water depth :	136 M
Compl. date :	92.07.13	Total depth :	3640 M
Spud. class :	WILDCAT	Form. at TD :	E.JURASSIC
Compl. class :	P&A. OIL/GAS	Prod.form. :	
Seisloca :	ST 8720-695, KOLONNE 555		

Licensees

6.000000 SAGA PETROLEUM ASA
85.000000 DEN NORSKE STATS OLJESELSKAP A.S
9.000000 NORSK HYDRO PRODUKSJON AS

Casing and Leak-off Tests

Type	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	220.0	36	222.0	
INTERM.	20	1056.0	26	1058.0	1.60
INTERM.	13 3/8	2100.0	17 1/2	2103.0	1.76
LINER	7	2838.0	8 1/2	3625.0	
INTERM.	9 5/8	2994.0	12 1/4	2997.0	1.97

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	3029.0 - 3053.0	24.0	100.0
2	3363.0 - 3390.0	27.1	100.0
3	3390.0 - 3417.0	26.5	100.0

Mud

Depth	Mud weight	Visc.	Mud type
826.0	1.03	10.0	WATER BASED
947.0	1.03	16.0	WATER BASED
1171.0	1.30	20.0	WATER BASED
1445.0	1.30	23.0	WATER BASED
1737.0	1.30	25.0	WATER BASED
1918.0	1.30	27.0	WATER BASED
2015.0	1.30	26.0	WATER BASED
2095.0	1.30	27.0	WATER BASED
2115.0	1.30	27.0	WATER BASED
2241.0	1.35	27.0	WATER BASED
2350.0	1.35	25.0	WATER BASED
2396.0	1.40	27.0	WATER BASED
2451.0	1.40	27.0	WATER BASED
2612.0	1.40	28.0	WATER BASED
2661.0	1.40	28.0	WATER BASED
2774.0	1.40	29.0	WATER BASED
2825.0	1.45	31.0	WATER BASED
2880.0	1.50	32.0	WATER BASED
2977.0	1.50	31.0	WATER BASED
3010.0	1.54	24.0	WATER BASED
3013.0	1.47	24.0	WATER BASED
3050.0	1.47	26.0	WATER BASED
3359.0	1.47	22.0	WATER BASED
3361.0	1.56	23.0	WATER BASED
3363.0	1.47	22.0	WATER BASED
3371.0	1.45	25.0	WATER BASED
3390.0	1.47	23.0	WATER BASED
3426.0	1.47	21.0	WATER BASED
3586.0	1.47	21.0	WATER BASED
3640.0	1.47	22.0	WATER BASED

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Drill Stem Test (intervals and pressures)

Test no.	Test interval meter	Choke size	Pressure (psi) WHP	BTHP	FFP
1.0	3371 - 3376	14.3	2392		14.0

Drill Stem Test (recovery)

Test no.	Oil Sm ³ /d	Gas Sm ³ /d	Oil grav. g/cm ³	Gas grav. rel. air	GOR m ³ /m ³
1.0	836	161490	0.869	0.695	194

Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	1080 - 3640	360

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500
ACOUSTIC CBL/GR	1900.0 - 2994.0		
ACOUSTIC CEMENT BOND	825.0 - 2097.0		
CALIBRATED VELOCITY	1100.0 - 3638.0		
DIPLOG	3215.0 - 3637.0		
DUAL INDUCTION	1056.0 - 3637.0		
DUAL LATEROLOG	2993.0 - 3637.0		
FMT LOG	3131.0 - 3533.0		

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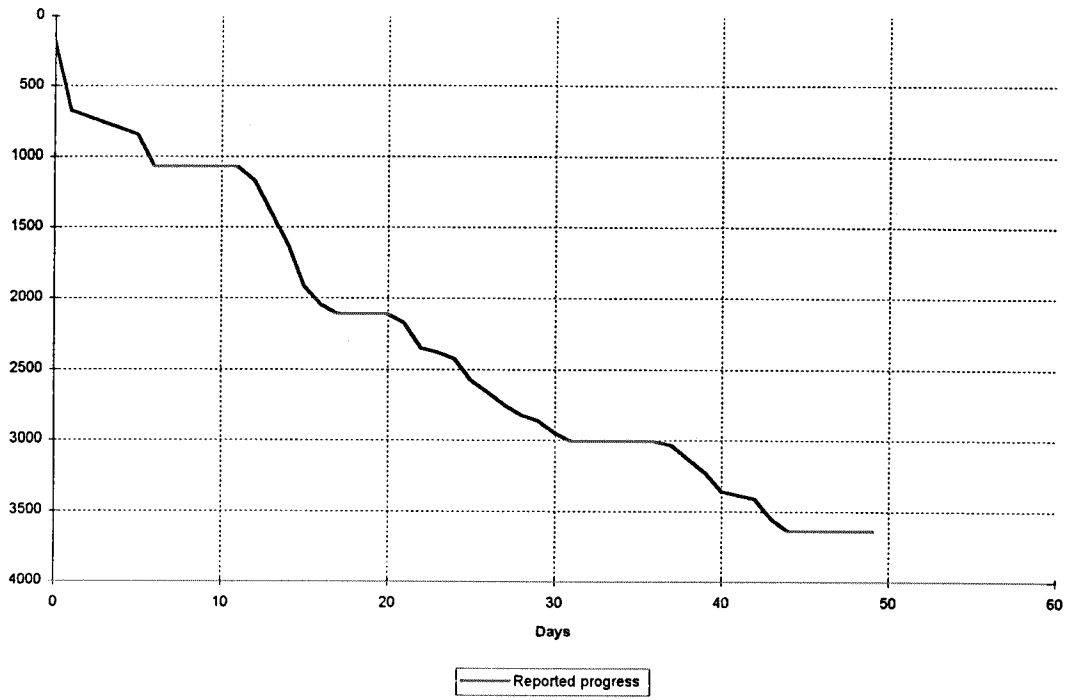
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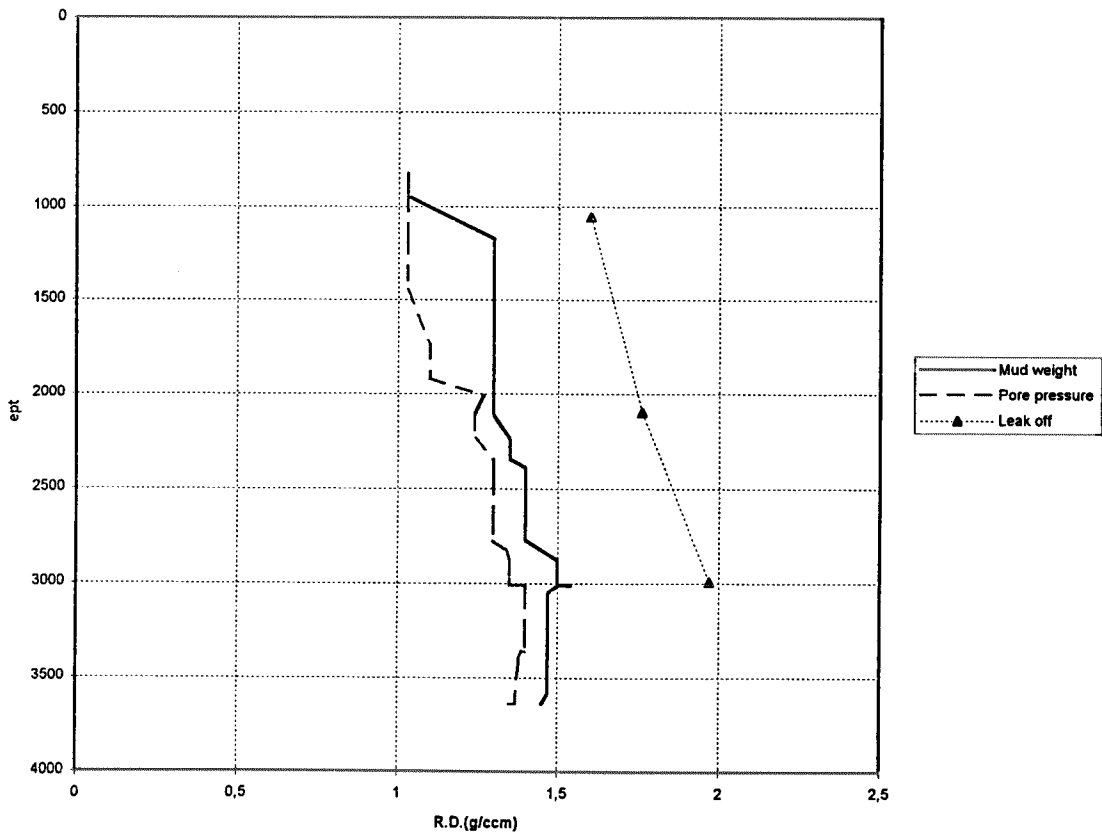
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FORMATION EVALUATION	1000.0 - 3640.0			
MWD	159.0 - 3640.0			
PETROFYSISK	3355.0 - 3560.0			
SYNTHETIC SEISMOGRAM				
TWO WAY TRAVEL TIME				
VSP, VERTICAL SEISMIC				
Z-DENSILOG	2993.0 - 3636.0			

Depth v.s. time plot for well: 34/10-36



Composite plot for well: 34/10-36



main operations for well: 04/10-00

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	1920	32,0	3,11
BOP/WELLHEAD EQ	1980	33,0	3,20
CASING	18900	315,0	30,57
CIRC/COND	1470	24,5	2,38
DRILL	22560	376,0	36,49
HOLE OPEN	1440	24,0	2,33
REAM	780	13,0	1,26
SURVEY	60	1,0	0,10
TRIP	12720	212,0	20,57
Total	61830	1030,5	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	240	4,0	1,25
CIRC/COND	990	16,5	5,16
CORE	930	15,5	4,84
DST	9180	153,0	47,81
LOG	3030	50,5	15,78
OTHER	1410	23,5	7,34
RFT/FIT	360	6,0	1,88
TRIP	3060	51,0	15,94
Total	19200	320,0	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	870	14,5	12,34
MAINTAIN/REP	5910	98,5	83,83
OTHER	270	4,5	3,83
Total	7050	117,5	100,00

Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	720	12,0	18,18
TRANSIT	3240	54,0	81,82
Total	3960	66,0	100,00

Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	420	7,0	4,12
CIRC/COND	510	8,5	5,00
CUT	1530	25,5	15,00
EQUIP RECOVERY	180	3,0	1,76
MECHANICAL PLUG	360	6,0	3,53
OTHER	30	0,5	0,29
SQUEEZE	150	2,5	1,47
TRIP	3270	54,5	32,06
WAIT	3750	62,5	36,76
Total	10200	170,0	100,00

Total time used: Hours

WELL HISTORY 34/10-36

GENERAL:

The Exploration well 34/10-36 was the 36th well within the licence and the 6th on the Gullfaks sør structure and was designed to test the structural/stratigraphic potential of the Draupne sandstone, interpreted as an Upper Jurassic "turbidite sandstone". It was also designated to confirm the GOC, OWC, and pressure regime in the Brent Group. The main objective of the well can be summarised as:

- Test the hydrocarbon potential within the prognosed Upper Jurassic Draupne sandstone reservoir.
- Verify the hydrocarbon type present in the Gullfaks Sør structure.
- Verify the potential resources of the Gullfaks Sør structure.
- Finish the well as a future producer/pressure monitor well.

OPERATION:

Well 34/10-36 was spudded on the 28th April 1992 by the semi submersible rig "Deepsea Bergen" and was completed 13th July 1992 in rocks of Jurassic age. No part of the primary prospect, the Upper Jurassic sandstone, was encountered. An attempt to core possible Draupne sandstone was carried out in connection with a drilling break at top Draupne Formation. The core consisted entirely of claystone. The Brent Group was encountered at 3361m MD RKB, 55m deeper than prognosed. A segregated FMT sample was taken at 3368m MD RKB with 3.5L of oil, 0.2m³ gas, and 3.2L of mudfiltrate. No CO₂ or H₂S was detected from the 2 ¾ gallon chamber. The well proved oil in the Tarbert Formation down to 3377.5m MD RKB (OWC). The GOC was not penetrated at well location, but is estimated to be further up than the 19m of expected oil zone due to FMT measurements. The well was drilled to a total depth of 3640 m MD RKB alike the prognosed TD, corresponding to 86m into Dunlin Group sediments and 76 metres into Cook Formation sand. The well was permanently plugged and abandoned as an oil discovery.

TESTING:

One DST tests were performed in this well.

Geological Tops.

Well: 34/10-36.

	Depth m (RKB).
Nordland Group	159.0
Utsira Fm	853.0
Hordaland Group	953.0
Rogaland Group	1842.0
Balder Fm	1842.0
Sele Fm	1921.0
Lista Fm	1951.0
Våle Fm	2049.0
Shetland Group	2061.0
Jorsalfare Fm	2061.0
Kyrre Fm	2349.0
Blodøks Fm	2881.5
Cromer Knoll Group	2999.0
Viking Group	3026.0
Draupne Fm	3026.0
Heather Fm	3125.0
Brent Group	3361.0
Tarbert Fm	3361.0
Ness Fm	3448.0
Etive Fm	3511.0
Rannoch Fm	3523.5
Dunlin Group	3555.0
Drake Fm	3555.0
Cook Fm	3565.5
T.D.	3640.0