

WDSS Report

Date: 27/09/96

PB/SKR

Page: 1 / 4

Well no:	Operator:
34/10-34	STATOIL

Well

Coordinates :	61° 13' 04.19" N 02° 08' 04.69" E	UTM coord. :	6787519.76 N 453515.53 E
License no :	50	Permit no :	672
Rig :	DEEPSEA BERGEN	Rig type :	SEMI-SUB.
Contractor :	ODFJELL DRILLING AND CONSULTING COMPANY A/S		
Bottom hole temp:	74 °C	Elev. KB :	23 M
Spud. date :	91.04.10	Water depth :	139 M
Compl. date :	91.05.31	Total depth :	2410 M
Spud. class :	WILDCAT	Form. at TD :	E.JURASSIC
Compl. class :	SUSPENDEO. OIL/GAS	Prod.form. :	
Seisloca :	ST 8511-364, SP. 327P		

Licensees

6.000000 SAGA PETROLEUM A.S.
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
SURF.COND.	30	231.0	36	235.0	
INTERM.	20	782.0	26	795.0	1.64
INTERM.	13 3/8	1675.0	17 1/2	1690.0	1.80
INTERM.	9 5/8	1982.0	12 1/4	1994.0	1.80
LINER	7	2405.0	8 1/2	2410.0	

Date: 27/09/96

Well no:	34/10-34	Operator:	STATOIL
-----------------	-----------------	------------------	----------------

Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	1995.0 - 2011.0	16.0	100.0
2	2013.0 - 2039.0	26.0	100.0
3	2039.0 - 2067.8	28.9	100.0
4	2072.0 - 2096.0	24.0	100.0
5	2096.0 - 2121.2	25.2	100.0
6	2126.0 - 2150.0	24.0	100.0
7	2150.0 - 2170.0	20.0	100.0
8	2171.0 - 2198.0	27.0	100.0
9	2198.5 - 2226.3	27.8	100.0
10	2226.0 - 2254.0	28.0	100.0
11	2254.0 - 2273.0	19.0	100.0

Mud

Depth	Mud weight	Visc.	Mud type
411.0	1.03	11.0	WATER BASED
795.0	1.18		WATER BASED
945.0	1.30	23.0	WATER BASED
1265.0	1.30	22.0	WATER BASED
1574.0	1.45	26.0	WATER BASED
1690.0	1.55	24.0	WATER BASED
1690.0	1.65	29.0	WATER BASED
1690.0	1.45	27.0	WATER BASED
1690.0	1.40	24.0	WATER BASED
1690.0	1.45	26.0	WATER BASED
1870.0	1.65	29.0	WATER BASED
2410.0	1.66	22.0	WATER BASED

Drill Stem Test (intervals and pressures)

Test no.	Test interval meter	Choke size	Pressure (psi) WHP	BTHP	FFP
1.0	1994.0 - 2001.0	19.0			

WDSS Report

Date: 27/09/96

PB/SKR

Page: 3 / 4

Well no: 34/10-34	Operator: STATOIL
------------------------------------	------------------------------------

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	606	141300	0.860	0.682	233

Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	1020 - 2885	360

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500
CBL VDL	0 - 2360.0		
CBL VDL GR CCL	1600.0 - 1994.0		
CCL GR	1700.0 - 1900.0		
CDM AP/SHDT MSD	1983.0 - 2405.0		
CST	781.0 - 1673.0		
CST GR	1982.0 - 2413.0		
DIS LSS GR	1675.0 - 1994.0		
DIS SLS	781.0 - 1673.0		
DITE SDT NGS	1982.0 - 2413.0		
DLL MSFL GR	1982.0 - 2282.0		
LDL CNL SGR	1982.0 - 2413.0		

WDSS Report

PB/SKR

Page: 4 / 4

Date: 27/09/96

Well no:		Operator:	
34/10-34		STATOIL	

LDL GR	781.0 - 1674.0			
LDL GR CALIPER	1675.0 - 1994.0			
MUD	790.0 - 2410.0			
MWD	240.0 - 2410.0			
NGT PLAYBACK	1982.0 - 2413.0			
RFT HP GR	2000.0 - 2363.0			
SHDT GR	1982.0 - 2413.0			
SPECTRAL GAMMA LOG	1990.0 - 2275.0			
SYNTHETIC SEISMOGRAM				
WAVESHAPE DECONVOLUTION	1600.0 - 3500.0			
VELOCITY LOG	765.0 - 2375.0			
VSP				
VSP/GEOGRAM				

Main operations for well: 34/10-34**Main operation: DRILLING**

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	1650	27,5	3,09
BOP/WELLHEAD EQ	5430	90,5	10,16
CASING	17130	285,5	32,04
CIRC/COND	1530	25,5	2,86
DRILL	9360	156,0	17,51
OTHER	4050	67,5	7,58
PRESS DETECTION	210	3,5	0,39
REAM	630	10,5	1,18
SURVEY	210	3,5	0,39
TRIP	8550	142,5	15,99
WAIT	4710	78,5	8,81
Total	53460	891,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC/COND	480	8,0	1,64
CORE	2670	44,5	9,14
DST	13680	228,0	46,82
LOG	6540	109,0	22,38
OTHER	210	3,5	0,72
TRIP	4440	74,0	15,20
WAIT	1200	20,0	4,11
Total	29220	487,0	100,00

Main operation: MOVING

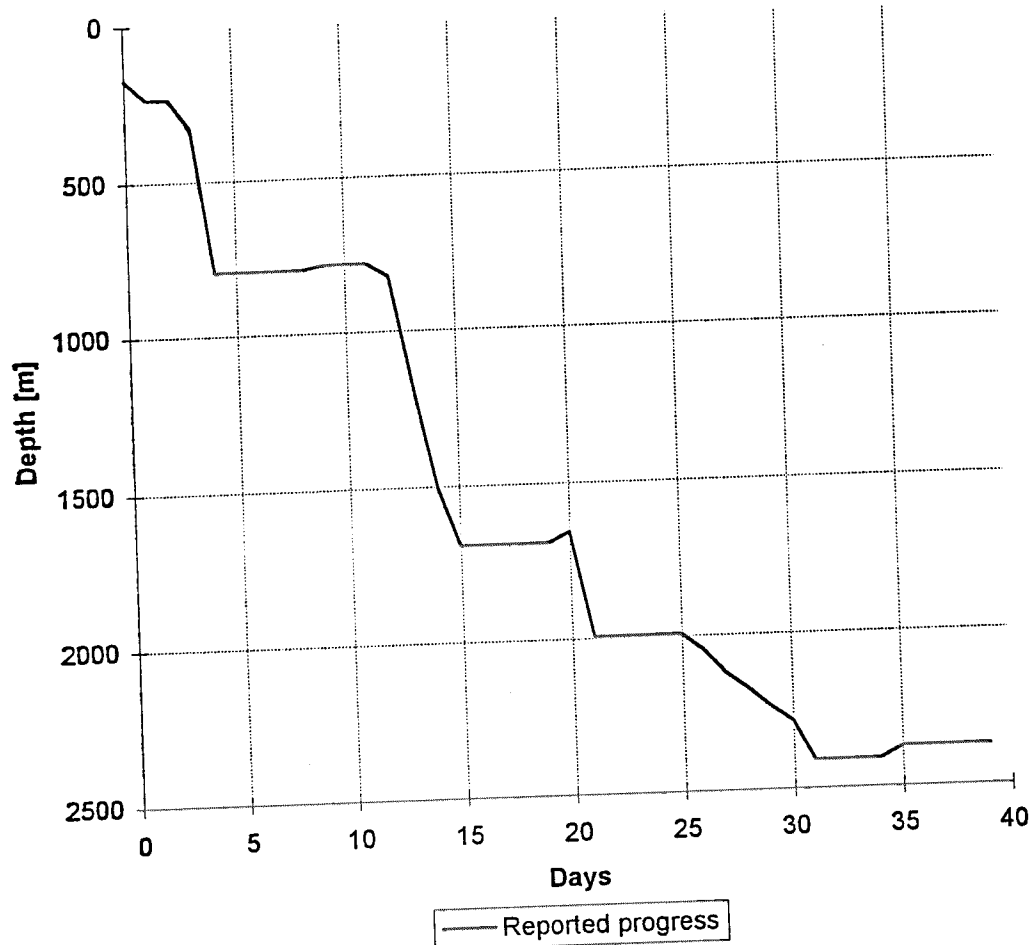
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	1620	27,0	46,96
OTHER	1680	28,0	48,70
TRANSIT	150	2,5	4,35
Total	3450	57,5	100,00

Main operation: PLUG & ABANDON

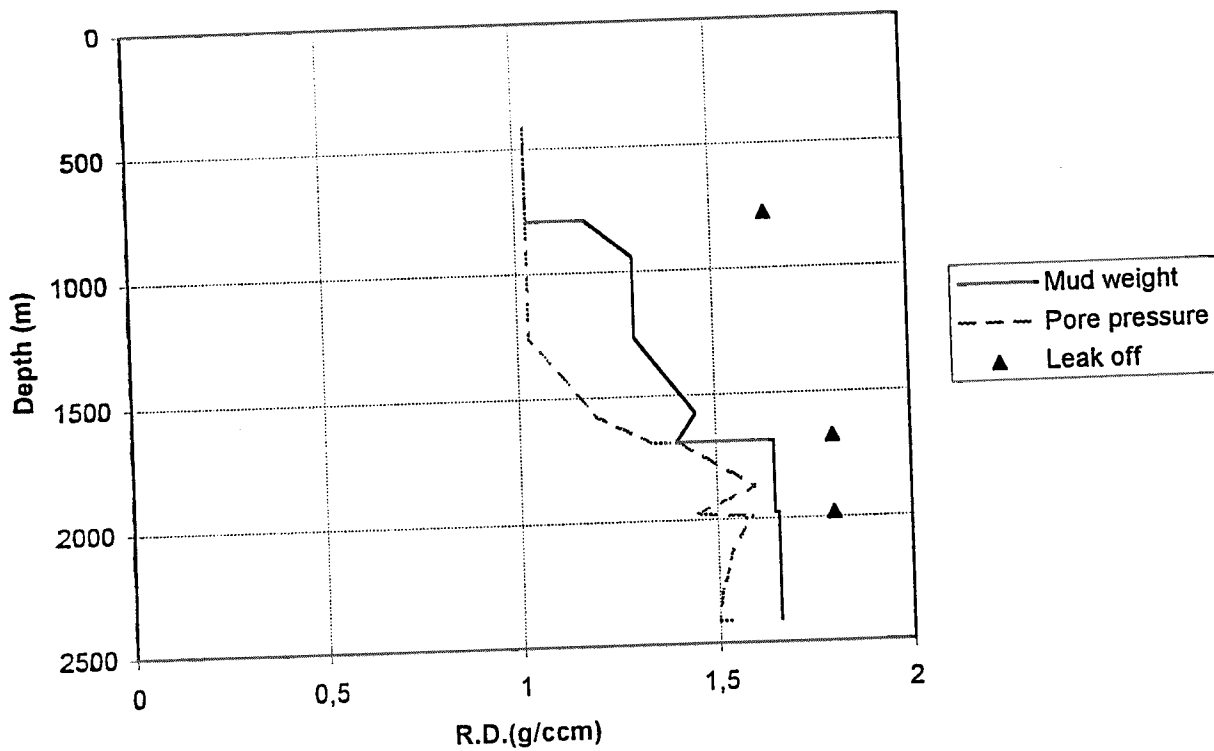
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	210	3,5	6,73
CIRC/COND	30	0,5	0,96
OTHER	1710	28,5	54,81
TRIP	1170	19,5	37,50
Total	3120	52,0	100,00

Total time used: Hours

Depth vs time for well: 34/10-34



Composite plot for well: 34/10-34



Well History 34/10-34.

General:

Well 34/10-34 was designed to drill on minor structures surrounding the Gullfaks Field and into the Cook Formation. Block 34/10 is situated in the Tampen Spur area, and the 6C structure is an elongated, lens shaped rotated fault block dipping to the NW and bounded to the East and South by faults. At the well location the Heather Formation and uppermost Tarbert Formation have been eroded. The structure is defined by faults running NNW-SSE and NE-SW, which also are the main fault directions in the area. The main objectives of the well were to:

- test the potential for hydrocarbons in the Brent Group sands west of the Gullfaks Field.
- establish an oil-water contact
- provide valuable structural and geological information concerning the migration route in the area.

No secondary prospects was defined, as the well location was to far down the flank on the structure concerning Cook sands and deeper prospects. Neither was Tertiary sands taken into consideration since the only shows come from spurious gas filled sand lenses in the area around the Gullfaks B-platform.

Operations:

Wildcat well 34/10-34 was spudded by the semi-submersible rig Deepsea Bergen 10 April 1991 and completed 31 May 1991 at a depth of 2410 m RKB in rocks of Early Jurassic age. Preparations were made for converting the well to a producer. While drilling the 26" hole some indications of gas was detected on ROV sonar. No gas was observed during hole opening. Apart from some problems with stuck pipe, drilling went on without significant problems. The Tarbert Formation sandstones proved oil, and the well was subsequently tested. A total of eleven cores were cut and all were recovered. 60 sidewall cores were attempted and 52 were recovered. The well was temporary plugged and abandoned as an oil/gas discovery.

Testing:

One DST test was performed in the Tarbert Formation.

Geological Tops.

Well:.34/10-34

	Depth m (RKB).
Nordland Group	163.0
Hordaland Group	922.5
Skade Fm	922.5
Undefined vs.	984.0
Rogaland Group	1599.5
Balder Fm	1599.5
Lista Fm	1660.0
Shetland Group	1806.0
Undefined	1806.0
Viking Group	1990.5
Heather Fm	1990.5
Brent Group	1992.5
Tarbert Fm	1992.58
Ness Fm	2081.5
Etive Fm	2171.0
Rannoch Fm	2188.0
Broom Fm	2267.5
Dunlin Group	2275.0
Drake FM	2275.0
COOK FM.	2357.0
T.D.(dd)	2410.0