

WDSS Report

Date: 26/09/96

PB/SKR

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Well no:	Operator:
34/08-05	HYDRO

Well

Coordinates :	61° 19' 29.94" N	UTM coord. :	6799321.73 N
	02° 20' 57.94" E		465171.96 E
License no :	120	Permit no :	667
Rig :	TRANSOCEAN 8	Rig type :	SEMI-SUB.
Contractor :	TRANSOCEAN AS		
Bottom hole temp:	113 °C	Elev. KB :	24 M
Spud. date :	91.02.18	Water depth :	296 M
Compl. date :	91.04.01	Total depth :	3540 M
Spud. class :	APPRAISAL	Form. at TD :	
Compl. class :	P&A. SHOWS	Prod.form. :	
Seisloca :	NH 9001-219, SP. 750		

Licenseses

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

Type	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	406.0	36	406.0	
INTERM.	13 3/8	1186.0	17 1/2	1197.0	1.53
INTERM.	9 5/8	2600.0	12 1/4	2612.0	1.82
OPEN HOLE			8 1/2	3540.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	2855.0 - 2881.0	26.0	100.0
2	2883.0 - 2911.0	28.0	100.0
3	2910.5 - 2931.0	20.5	100.0
4	2931.5 - 2959.5	28.0	100.0
5	2959.5 - 2985.3	25.8	100.0
6	2986.5 - 2999.0	12.5	100.0
7	3033.3 - 3049.0	15.7	100.0
8	3354.0 - 3375.3	21.3	100.0
9	3406.0 - 3419.5	13.5	100.0

Mud

Depth	Mud weight	Visc.	Mud type
746.0	1.20		WATER BASED
1197.0	1.10		WATER BASED
1197.0	1.15	14.0	WATER BASED
1197.0	1.09	15.0	WATER BASED
1532.0	1.20	14.0	WATER BASED
1934.0	1.35	16.0	WATER BASED
2549.0	1.60	36.0	WATER BASED
2612.0	1.40	26.0	WATER BASED
2612.0	1.42	21.0	WATER BASED
2618.0	1.45	22.0	WATER BASED
2688.0	1.60	20.0	WATER BASED
2742.0	1.59	23.0	WATER BASED
2960.0	1.60	28.0	WATER BASED
3026.0	1.61	26.0	WATER BASED
3540.0	1.60	29.0	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 Sm ³ /d	Gas Sm ³ /d	Oil grav. g/cm ³	Gas grav. rel. air	GOR m ³ /m ³
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Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	1200 - 3540	390

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500
AMS	1186.0 - 2541.0		
AMS	2604.0 - 3508.0		
CALIBRATED SONIC	1200.0 - 3540.0		
CBL VDL GR	2100.0 - 2554.0		
CDM AP/MSD	2610.0 - 3535.0		
CST GR	1219.0 - 2143.0		
CST GR	2634.0 - 2855.0		
DIL LSS SDT SP SGR	1186.0 - 3539.0		
DIL LSS SP GR	1186.0 - 2569.0		
DIL SDT AMS SP SGR	2604.0 - 3539.0		
DRILLING DATA PRESS.	320.0 - 3540.0		
FMS AMS GR	2604.0 - 3541.0		

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LDL CNL AMS SGR	2604.0 - 3520.0			
LDL CNL GR	1186.0 - 2552.0			
LDL CNL SGR	1186.0 - 3520.0			
MUD	320.0 - 3540.0			
NGL AMS	2604.0 - 3511.0			
RFT HP AMS GR	2857.0 - 3416.0			
SPECTRAL GAMMA LOG	2855.0 - 3420.0			
SYNTHETIC SEISMOGRAM				
TEMPERATURE DATA	1200.0 - 3540.0			
TWO-WAY TRAVEL TIME	300.0 - 3400.0			
VSP				

Main operations for well: 34/8-5**Main operation: DRILLING**

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	2370	39,5	8,25
BOP/WELLHEAD EQ	450	7,5	1,57
CASING	4320	72,0	15,05
CIRC/COND	840	14,0	2,93
DRILL	12420	207,0	43,26
REAM	180	3,0	0,63
TRIP	7620	127,0	26,54
WAIT	510	8,5	1,78
Total	28710	478,5	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	360	6,0	2,13
CIRC/COND	840	14,0	4,97
CORE	4950	82,5	29,31
LOG	4170	69,5	24,69
RFT/FIT	210	3,5	1,24
TRIP	6360	106,0	37,66
Total	16890	281,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	1140	19,0	18,18
MAINTAIN/REP	4920	82,0	78,47
OTHER	120	2,0	1,91
WAIT	90	1,5	1,44
Total	6270	104,5	100,00

Main operation: MOVING

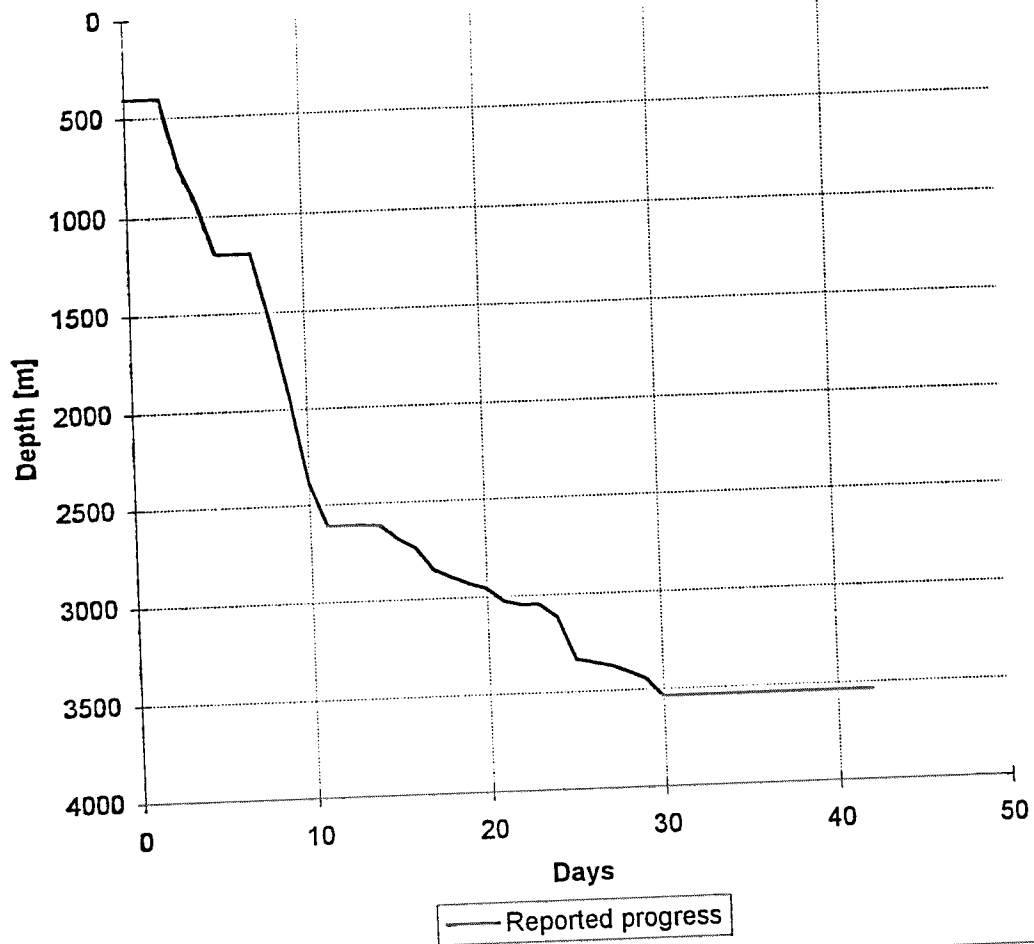
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	1290	21,5	19,11
TRANSIT	5460	91,0	80,89
Total	6750	112,5	100,00

Main operation: PLUG & ABANDON

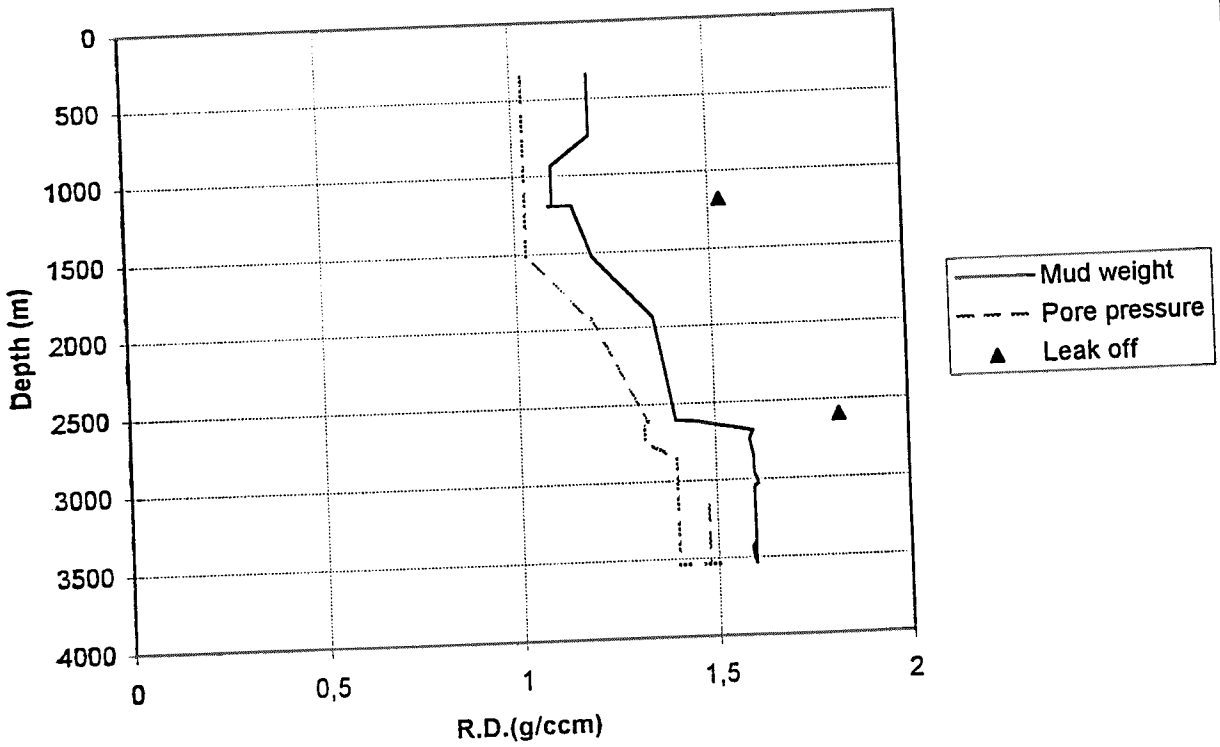
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	990	16,5	12,99
CIRC/COND	480	8,0	6,30
CUT	1050	17,5	13,78
EQUIP RECOVERY	2070	34,5	27,17
MECHANICAL PLUG	210	3,5	2,76
PERFORATE	480	8,0	6,30
SQUEEZE	90	1,5	1,18
TRIP	2250	37,5	29,53
Total	7620	127,0	100,00

Total time used: Hours

Depth vs time for well: 34/8-5



Composite plot for well: 34/8-5



Well History 34/8-5

General:

Well 34/8-5 was designed to drill on the southern part of the Visund Field on the A-South compartment, approximately 6 kilometres SSW of well 34/8-1. This was the second appraisal well in the license area. The primary objective of well 34/8-5 was to appraise the Jurassic Brent Group in the compartment in order to reduce the uncertainty in reserve estimates. Secondary objectives were to:

- confirm the seismic and geological model
- obtain reservoir pressure
- confirm gas/oil and oil/water contacts.
- enable future re-use of the well as a possible producer, injector or observation well
- test reservoir quality of an Oligocene submarine fan system.

Shallow gas was predicted at 604- and 793 m RKB due to amplitude anomaly at or nearby the well location.

Operations:

Appraisal well 34/8-5 was spudded by Transocean Drilling's semi-submersible rig Transocean 8 18 February 1991 and re-spudded on 19 February 1991 due to problems with re-entering the 36" hole. It was necessary to re-position the rig and respud the well. The well was completed 1 April 1991 at a depth of 3540 m RKB in rocks of Triassic age, the Lunde A Formation. The primary objective Brent Group was encountered water bearing. Water bearing sands of Oligocene and Eocene age were encountered. A total of nine cores were cut in the Brent Group, Dunlin Group and the Statfjord Formation, and several of the cores displayed HC shows. A total of 81 sidewall cores were attempted and 56 were recovered. Non of the sidewall cores showed hydrocarbons. No shallow gas or sandlayer were encountered in the well while drilling the 8 1/2" pilot hole. Except for failure on the MWD tool, the drilling proceeded without any significant problems. The well was plugged and abandoned as a dry hole with HC shows.

Testing:

No DST tests were performed.

Geological Tops.

Well:34/8-5

	Depth m (RKB).
Nordland Group	320.0
Utsira Fm	1064.0
Hordaland Group	1118.0
Grid Fm	1508.0
Undefined	1534.0
Rogaland Group	1839.0
Balder Fm	1839.0
Sele Fm	1883.0
Lista Fm	1918.0
Shetland Group	2064.5
Jorsalfare Fm	2064.5
Kyrre Fm	2282.0
Tryggvason Fm	2753.0
Cromer Knoll Group	2819.0
Åsgard Fm	2819.0
Viking Group	2830.0
Draupne Fm	2830.0
Heather Fm	2837.5
Brent Group	2855.0
Tarbert Fm	2855.0
Ness Fm	2890.0
Etive Fm	2970.0
Rannoch Fm	2983.0
Broom Fm	3046.0
Dunlin Group	3048.5
Drake Fm.	3048.5
Cook Fm	3122.0
Burton Fm	3219.0
Amundsen Fm	3248.5
Staffjord Fm	3383.5
Hegre Fm	3484.0
Lunde Fm	3484.0
T.D. DD.	3540.0