

WDSS Report

Date: 27/03/98

PB/SKR

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Well no:	Operator:
34/07-20	SAGA

Well

Coordinates :	61° 26' 39.65" N 02° 01' 49.98" E	UTM coord. :	6812829.08 N 448299.25 E
License no :	89	Permit no :	736
Rig :	TREASURE SAGA	Rig type :	SEMI-SUB.
Contractor :	WILRIG A/S		
Bottom hole temp:	95 °C	Elev. KB :	26 M
Spud. date :	92.07.18	Water depth :	295 M
Compl. date :	92.08.27	Total depth :	3178 M
Spud. class :	WILDCAT	Form. at TD :	TRIASSIC
Compl. class :	P&A. SHOWS	Prod.form. :	
Seisloca :	E-86-3D, REKKE 540, KOLONNE 1219		

Licensees

- .700000 DNO OLJE A/S
- 5.600000 ELF PETROLEUM NORGE AS
- 10.500000 ESSO EXPL. & PROD. NORWAY A/S
- 8.400000 NORSK HYDRO PRODUKSJON AS
- 9.600000 IDEMITSU PETROLEUM NORGE AS
- 7.000000 SAGA PETROLEUM ASA
- 55.400000 DEN NORSKE STATS OLJESELSKAP A.S
- 2.800000 DEMINEX NORGE 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	418.0	36	419.0	
INTERM.	20	1204.0	26	1207.0	1.59
INTERM.	13 3/8	1824.0	17 1/2	1845.0	1.79
OPEN HOLE		3177.0	12 1/4	3177.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	2576.0 - 2579.9	3.9	100.0
2	2581.0 - 2606.7	25.7	100.0
3	2608.5 - 2636.7	28.2	100.0

Mud

Depth	Mud weight	Visc.	Mud type
392.0	1.24		WATER BASED
419.0	1.03	13.0	WATER BASED
880.0	1.12	10.0	WATER BASED
1220.0	1.18	7.0	WATER BASED
1223.0	1.35	16.0	WATER BASED
1716.0	1.45	36.0	WATER BASED
1845.0	1.48	38.0	WATER BASED
2017.0	1.60	31.0	WATER BASED
2250.0	1.65	34.0	WATER BASED
2364.0	1.65	37.0	WATER BASED
2480.0	1.65	36.0	WATER BASED
2572.0	1.65	37.0	WATER BASED
2582.0	1.65	37.0	WATER BASED
2936.0	1.60	33.0	WATER BASED
3008.0	.00	44.0	WATER BASED
3029.0	1.60	40.0	WATER BASED
3106.0	1.60	41.0	WATER BASED
3169.0	1.60	39.0	WATER BASED
3177.0	1.61	41.0	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	430 - 3177	540
CUTTINGS	430 - 2817	120

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500	
CDR	400.0 - 3165.0			
CDR MEMORY LOG	410.0 - 3176.0			
DLL MSFL LSS	1828.0 - 2815.0			
DSI GR AMS	2530.0 - 3172.0			
DSI SLOWNESS TIME	2525.0 - 3175.0			
LDL CNL GR	1828.0 - 2796.0			
LDL CNL GR AMS	2550.0 - 3164.0			
LDL GR	1201.0 - 1814.0			
MSD	1828.0 - 3175.0			
PI DSI MSFL GR AMS P	2550.0 - 3178.0			
PI SLS MSFL GR	1201.0 - 1831.0			
REAL TIME LOG	2800.0 - 2935.0			
RFT HP GR	2583.0 - 2779.0			
RFT HP GR	3047.0 - 3152.0			
SHDT GR AMS	1824.0 - 3179.0			
SIDEWALL CORE SAMPLE	1890.0 - 3175.0			

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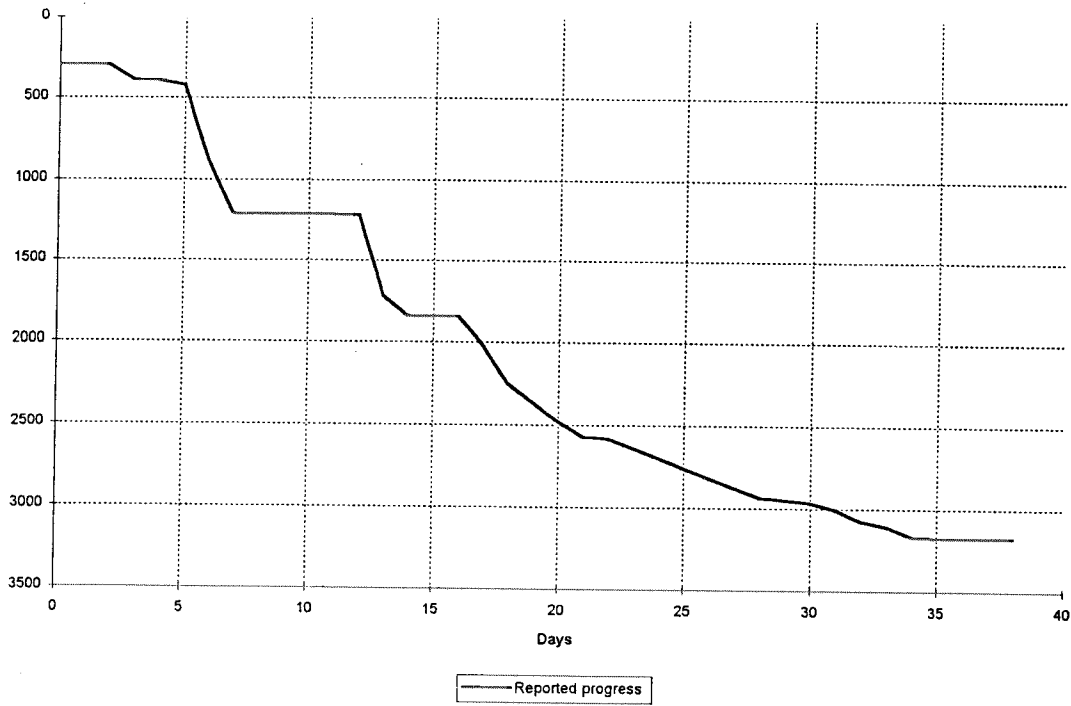
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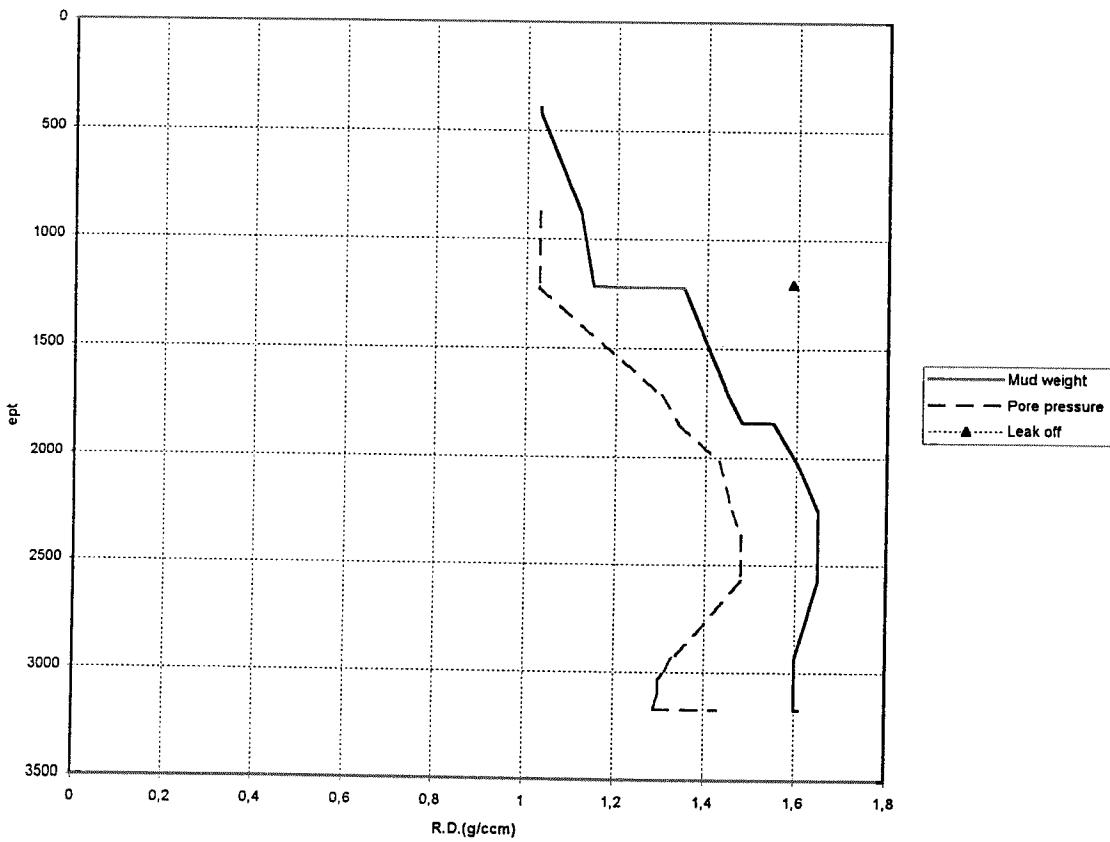
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SYNTHETIC SEISMOGRAM				
TWO WAY TRAVEL TIME				
WELL SITE LITHOLOG	321.0 - 3177.0			
WELLSITE CORE	2576.0 - 2636.0			
VSP				

Depth v.s. time plot for well: 34/7-20



Composite plot for well: 34/7-20



Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	1170	19,5	3,30
BOP/WELLHEAD EQ	3300	55,0	9,31
CASING	4260	71,0	12,01
CIRC/COND	1920	32,0	5,41
DRILL	16020	267,0	45,18
HOLE OPEN	1080	18,0	3,05
OTHER	90	1,5	0,25
PRESS DETECTION	450	7,5	1,27
REAM	30	0,5	0,08
SURVEY	150	2,5	0,42
TRIP	6000	100,0	16,92
UNDERREAM	990	16,5	2,79
Total	35460	591,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CORE	330	5,5	6,88
LOG	3660	61,0	76,25
TRIP	810	13,5	16,88
Total	4800	80,0	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	1290	21,5	43,00
MAINTAIN/REP	1710	28,5	57,00
Total	3000	50,0	100,00

Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	1980	33,0	42,31
POSITION	360	6,0	7,69
TRANSIT	2340	39,0	50,00
Total	4680	78,0	100,00

Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	480	8,0	11,11
CIRC/COND	660	11,0	15,28
CUT	240	4,0	5,56
EQUIP RECOVERY	570	9,5	13,19
SQUEEZE	30	0,5	0,69
TRIP	2310	38,5	53,47
WAIT	30	0,5	0,69
Total	4320	72,0	100,00

Total time used: Hours

WELL HISTORY 34/7-20

GENERAL:

Exploration well 34/7-20 was drilled in the NW-Area of block 34/7 to the west of the main Snorre Field between the Statfjord Nord Field and Vigdis Vest Field.

The well was drilled through a supposed pinchout trap with sands of late Jurassic age as the main target. A secondary objective was to test Brent Group, and if water-bearing, make a pressure test in order to evaluate possible communication to the Vigdis West Field.

The well is situated on the footwall side of a major N-S trending fault west of the well. This fault was probably active during the deposition of the Upper Jurassic interval, which is indicated by thickening on the hanging wall side. The well is positioned in an updip position on a gently west-dipping structure including a thin Upper Jurassic sand interval.

OPERATION:

The well 34/7-20 was spudded July 18, 1992 by the semi submersible rig "Treasure Saga" and completed August 27, 1992 in rocks of Triassic age. The top of the reservoir was penetrated 7 meter shallower than prognosed, and the base was penetrated 48 meter shallower. Only 3 meter of ?Upper Jurassic sand was penetrated. The sand was proven water bearing with oil-shows.

Three cores were cut, from the lowermost part of Cromer Knoll Group down to the Heather Formation. The Brent Group pressure tests indicate, when compared to the tests from well 34/7-13, a communication within the Brent Group between the NW-Area and the Vigdis West Field. The relative low pressure found in well 34/7-20, is most likely due to pressure depletion from Statfjord Field. Pressure tests in the Brent and Viking Groups in well 34/7-20, indicate in addition communication between the sandstones of the ?Upper Jurassic and Brent Groups. These sandstone units are probably in contact further updip, which is, most likely, the explanation to why the well was dry.

The well was plugged and abandoned as a dry well

TESTING:

No DST tests were performed.

Geological Tops.

Well: 34/7-20.

	Depth m (RKB).
Nordland Group	321.0
Utsira Fm	961.0
Hordaland Group	1092.0
Rogaland Group	1682.0
Balder Fm	1682.0
Sele Fm	1732.0
Shetland Group	1881.0
Jorsalfare Fm	1881.0
Kyrre Fm.	2142.0
Cromer Knoll Group	2572.0
Viking Group	2578.0
Heather Fm	2581.0
Brent Group	2613.0
Tarbert Fm	2613.0
Ness Fm	2629.5
Etive Fm	2649.0
Rannoch Fm	2695.0
Dunlin Group	2785.0
Drake Fm	2785.0
Cook Fm	2882.0
Burton Fm	2919.0
AmundsenFm	2947.0
Statfjord Fm.	3045.0
T.D.	3178.0