

WDSS Report

Date: 26/03/98

PB/SKR

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Well no:	Operator:
35/12-01	SAGA

Well

Coordinates :	61°11' 04.06" N 03° 57' 45.41" E	UTM coord. :	6783875.97 N 551762.89 E
License no :	174	Permit no :	720
Rig :	TREASURE SAGA	Rig type :	SEMI-SUB.
Contractor :	WILRIG A/S		
Bottom hole temp:	115 °C	Elev. KB :	26 M
Spud. date :	92.02.27	Water depth :	351 M
Compl. date :	92.04.24	Total depth :	3020 M
Spud. class :	WILDCAT	Form. at TD :	E.JURASSIC
Compl. class :	P&A. DRY HOLE	Prod.form. :	
Seisloca :	NO.D4-84-83, SP. 920		

Licenses

10.000000 MOBIL DEVELOPMENT NORWAY AS
30.000000 SAGA PETROLEUM ASA
50.000000 DEN NORSKE STATS OLJESELSKAP A.S
10.000000 ESSO EXPL. & PROD. NORWAY 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	474.0	36	486.0	
INTERM.	20	999.0	26	1020.0	1.41
INTERM.	13 3/8	2198.0	17 1/2	2215.0	1.60
OPEN HOLE		3020.0	12 1/4	3020.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	2415.0 - 2442.0	26.6	100
2	2442.0 - 2457.0	14.7	100
3	2457.0 - 2458.5	1.2	100
4	2598.0 - 2606.0	7.3	100

Mud

Depth	Mud weight	Visc.	Mud type
385.0	1.04		WATER BASED
440.0	1.04		WATER BASED
486.0	1.04		WATER BASED
856.0	1.11	6.0	WATER BASED
1015.0	1.14	7.0	WATER BASED
1020.0	1.20	21.0	WATER BASED
1280.0	1.30	28.0	WATER BASED
1439.0	1.30	29.0	WATER BASED
1487.0	1.30	28.0	WATER BASED
1600.0	1.30	27.0	WATER BASED
1693.0	1.30	26.0	WATER BASED
1827.0	1.30	27.0	WATER BASED
1899.0	1.30	28.0	WATER BASED
1959.0	1.30	28.0	WATER BASED
2046.0	1.28	27.0	WATER BASED
2167.0	1.28	30.0	WATER BASED
2215.0	1.28	30.0	WATER BASED
2251.0	1.32	33.0	WATER BASED
2352.0	1.32	30.0	WATER BASED
2418.0	1.32	34.0	WATER BASED
2445.0	1.32	34.0	WATER BASED
2458.0	1.32	39.0	WATER BASED
2598.0	1.32	28.0	WATER BASED
2647.0	1.32	27.0	WATER BASED
2700.0	1.32	30.0	WATER BASED
2778.0	1.30	32.0	WATER BASED
2923.0	1.28	27.0	WATER BASED
2975.0	1.25	27.0	WATER BASED
3001.0	1.25	24.0	WATER BASED
3020.0	1.25	.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
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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	490 - 3018	360
CUTTINGS	490 - 2957	120

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500	
CALIBRATED SONIC	1000.0 - 3019.0			
CST	1040.0 - 2208.0			
CST GR	2225.0 - 3017.0			
DIL LSS MSFL GR AMS	2199.0 - 3019.0			
DLL MSFL GR	2199.0 - 2698.0			
DLL MSFL GR AMS	2199.0 - 2698.0			

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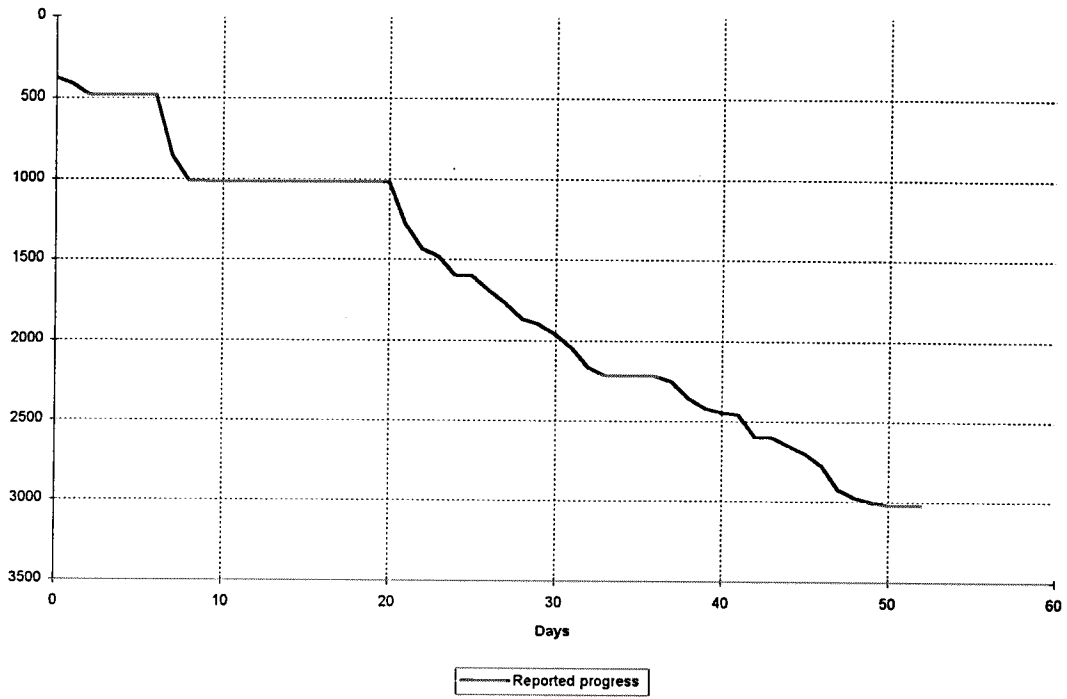
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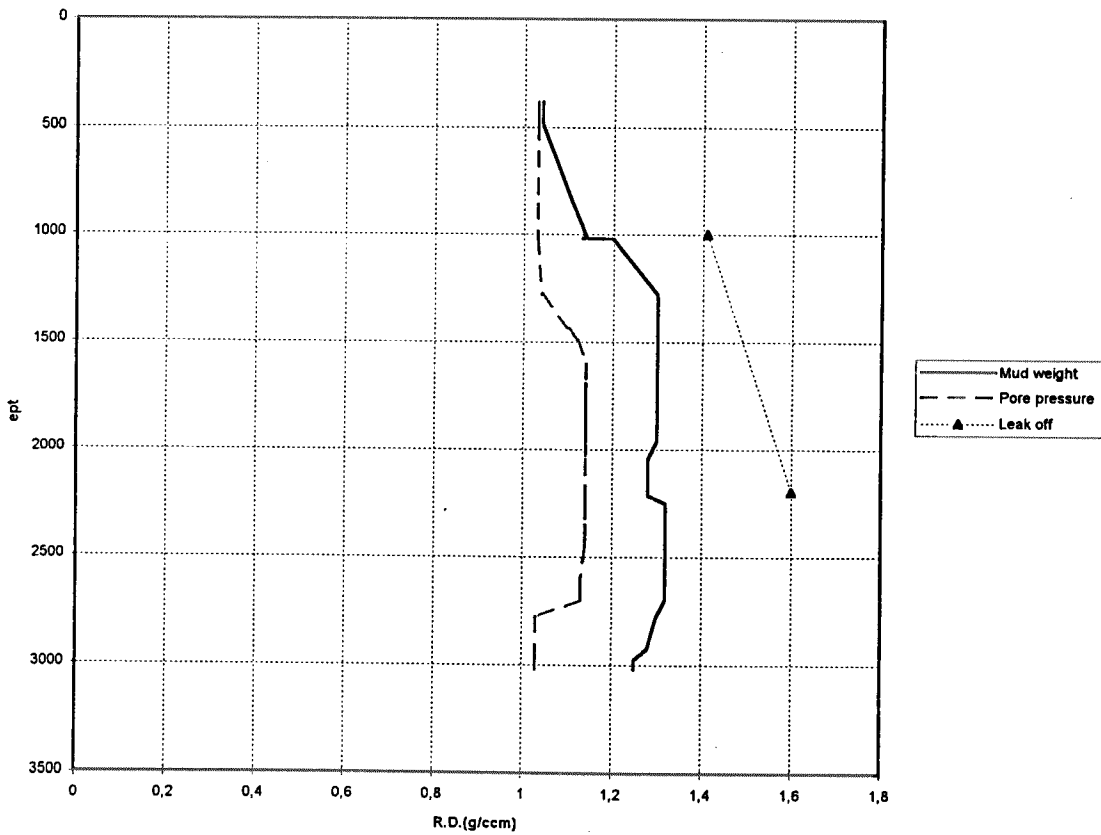
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DLL MSFL LSS GR SP	998.0 - 2207.0			
LDL CNL GR	2199.0 - 2698.0			
LDL CNL GR AMS	2199.0 - 3020.0			
LDL GR	998.0 - 2207.0			
MSD SHDT	2200.0 - 3020.0			
MWD	479.0 - 3020.0			
RFT	2407.0 - 2999.0			
RWD	481.0 - 1015.0			
SDT	2649.0 - 3020.0			
SYNTHETIC SEISMOGRAM				
TWO WAY TRAVEL TIME				
VERTICAL SEISMIC				
VSP	665.0 - 3015.0			
WSC				
ZERO OFFSET VSP				

Depth v.s. time plot for well: 35/12-1



Composite plot for well: 35/12-1



Main operations for well: 35/12-1

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	2910	48,5	6,04
BOP/WELLHEAD EQ	2460	41,0	5,11
CASING	5520	92,0	11,46
CIRC/COND	2100	35,0	4,36
DRILL	22500	375,0	46,73
HOLE OPEN	2430	40,5	5,05
OTHER	60	1,0	0,12
PRESS DETECTION	150	2,5	0,31
REAM	2430	40,5	5,05
SURVEY	120	2,0	0,25
TRIP	7350	122,5	15,26
WAIT	120	2,0	0,25
Total	48150	802,5	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	210	3,5	2,15
CORE	2970	49,5	30,37
LOG	4770	79,5	48,77
OTHER	60	1,0	0,61
RFT/FIT	450	7,5	4,60
TRIP	1320	22,0	13,50
Total	9780	163,0	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	2580	43,0	10,76
LOST CIRC	930	15,5	3,88
MAINTAIN/REP	5280	88,0	22,03
OTHER	2250	37,5	9,39
WAIT	12870	214,5	53,69
WELL CONTROL	60	1,0	0,25
Total	23970	399,5	100,00

Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	2340	39,0	36,28
TRANSIT	4110	68,5	63,72
Total	6450	107,5	100,00

Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	540	9,0	15,25
CIRC/COND	450	7,5	12,71
CUT	210	3,5	5,93
EQUIP RECOVERY	270	4,5	7,63
OTHER	30	0,5	0,85
SQUEEZE	270	4,5	7,63
TRIP	1650	27,5	46,61
WAIT	120	2,0	3,39
Total	3540	59,0	100,00

Total time used: 1531,5 Hours

WELL HISTORY 35/12-1

GENERAL:

The well 35/12-1 was drilled on the eastern border of the block 35/12 against a north-south oriented main fault, which is the eastern limit of the Uer Terrace.

The primary purpose of the well was to test the hydrocarbon potential in sandstones of the Late Jurassic Sognefjord Formation. A secondary objective was to test the reservoirs of the Brent and Dunlin Groups.

OPERATION:

Well 35/12-1 was spudded on the 27th February 1992 by the semi submersible rig "Treasure saga" and was completed 24th April 1992, in basement rocks.

The reservoir quality in the Heather Formation was poor. The formation consists of siltstone and some thin beds of fine sandstones with low porosity.

The sandstones in the "Sognefjord Equivalent" (Intra Heather Sandstone) and the "Fensfjord/Krossfjord Equivalent" sandstone (lower part of the Intra Heather sandstone) had better reservoir quality with porosities around 20% in the "Fensfjord/Krossfjord Equivalent". Some weak traces of hydrocarbons were observed in the Upper Jurassic sandstones. Sandstones were also present in the Brent Equivalent and the undifferentiated Dunlin. Petrophysical evaluation showed that the sandstones of Jurassic age were water filled. The well was stopped 17m into basement about 120 meters shallower than prognosis.

The well was permanently plugged and abandoned as a dry well.

TESTING:

No DST test was performed in this well.

Geological Tops.

Well: 35/12-1.

	Depth m (RKB).
Nordland Group	377.0
Rogaland Group	573.0
Balder Fm	573.0
Sele Fm	600.0
Shetland Group	1434.0
Jorsalfare Fm	1434.0
Kyrre Fm	1513.0
Tryggvason Fm	1924.0
Cromer Knoll Group	2110.0
Rødby Fm	2110.0
Åsgard Fm	1796.0
Viking Group	2361.0
Draupne Fm	2361.0
Heather Fm	2398.0
Brent Group	2886.0
Dunlin Group	2908.0
Drake Fm	2908.0
T.D	3020.0