

WDSS Report

Date: 02/03/98

PB/SKR

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Well no:	Operator:
7/07-02	STATOIL

Well

Coordinates :	57° 29' 04.16" N 02° 18' 17.59" E	UTM coord. :	6371675.99 N 458321.93 E
License no :	148	Permit no :	710
Rig :	DEESEA BERGEN	Rig type :	SEMI-SUB.
Contractor :	ODFJELL DRILLING AND CONSULTING COMPANY A/S		
Bottom hole temp:	144 °C	Elev. KB :	23 M
Spud. date :	92.01.20	Water depth :	82 M
Compl. date :	92.04.25	Total depth :	3430 M
Spud. class :	WILDCAT	Form. at TD :	PERMIAN
Compl. class :	P&A. OIL DISCOVERY	Prod.form. :	
Seisloca :	AHN 8707 - 212 SP. 110		

Licensees

10.000000 AMOCO NORWAY AS
50.000000 DEN NORSKE STATS OLJESELSKAP A.S
15.000000 TOTAL NORGE AS
25.000000 AMERADA HESS 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	165.0	36	165.0	
INTERM.	20	886.0	26	886.0	2.05
INTERM.	13 3/8	2728.0	17 1/2	2728.0	2.00
INTERM.	9 5/8	3283.0	12 1/4	3283.0	2.05
LINER	7	3420.0	8 1/2	3420.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	3242.0 - 3243.0	1.0	100.0
2	3243.0 - 3246.5	3.5	100.0
3	3338.0 - 3348.6	10.6	100.0
4	3350.0 - 3357.1	7.1	100.0
5	3357.0 - 3368.4	11.4	100.0

Mud

Depth	Mud weight	Visc.	Mud type
32.0	1.70	32.0	WATER BASED
1175.0	1.45	28.0	WATER BASED
1548.0	1.55	33.0	WATER BASED
1920.0	1.55	36.0	WATER BASED
2077.0	1.55	39.0	WATER BASED
2083.0	1.55	34.0	WATER BASED
2182.0	1.55	30.0	WATER BASED
2330.0	1.60	24.0	WATER BASED
2448.0	1.55	34.0	WATER BASED
2525.0	1.55	32.0	WATER BASED
2586.0	1.55	36.0	WATER BASED
2719.0	1.55	32.0	WATER BASED
2744.0	1.60	30.0	WATER BASED
3043.0	1.60	41.0	WATER BASED
3100.0	1.63	40.0	WATER BASED
3117.0	1.68	40.0	WATER BASED
3121.0	1.63	43.0	WATER BASED
3166.0	1.63	40.0	WATER BASED
3242.0	1.68	36.0	WATER BASED
3247.0	1.68	33.0	WATER BASED
3293.0	1.70	47.0	WATER BASED
3312.0	1.70	43.0	WATER BASED
3328.0	1.88	51.0	WATER BASED
3328.0	1.84	51.0	WATER BASED
3330.0	1.95	39.0	WATER BASED
3334.0	2.05	26.0	WATER BASED
3338.0	1.96	38.0	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	3333.0 - 3342.0	9.5	2207.0		

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	787		0.877	0.840	20

Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	910 - 3422	270
CUTTINGS	910 - 3422	435

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500
AC CEM BO VDL GR	2727.0 - 3305.0		
ACBL VDL GR	1500.0 - 3370.0		
C Z-DEN NEU GR	2727.0 - 3304.0		
COM Z-DEN GR	886.0 - 2734.0		
COM Z-DEN NEU GR	3286.0 - 3432.0		
DIFL MLL ACL GR	3286.0 - 3431.0		

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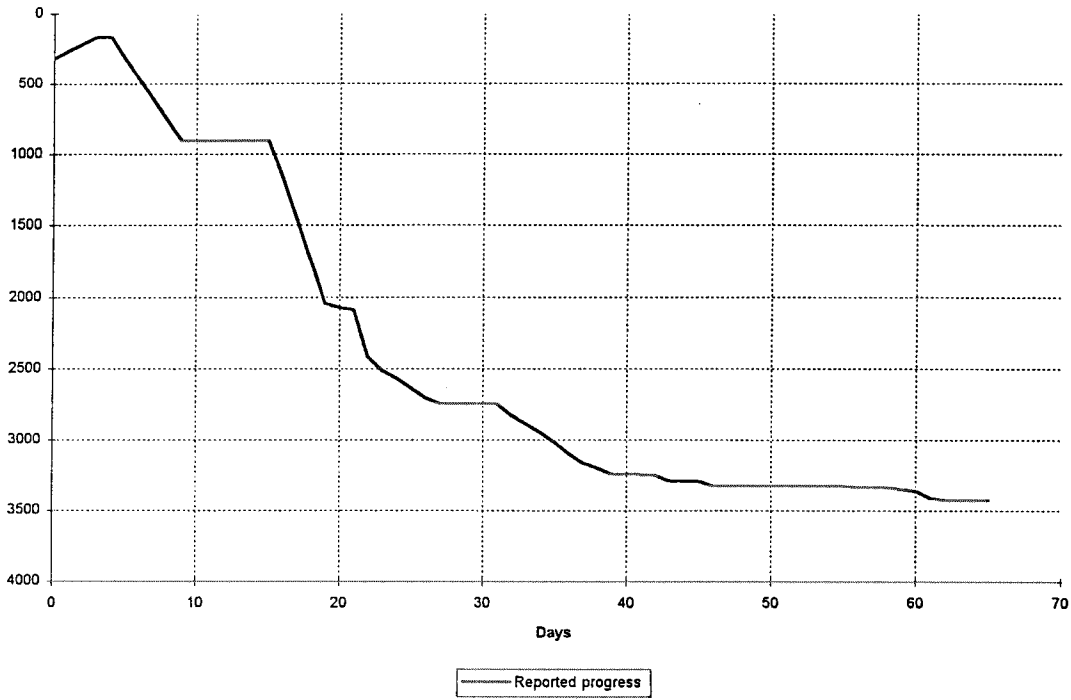
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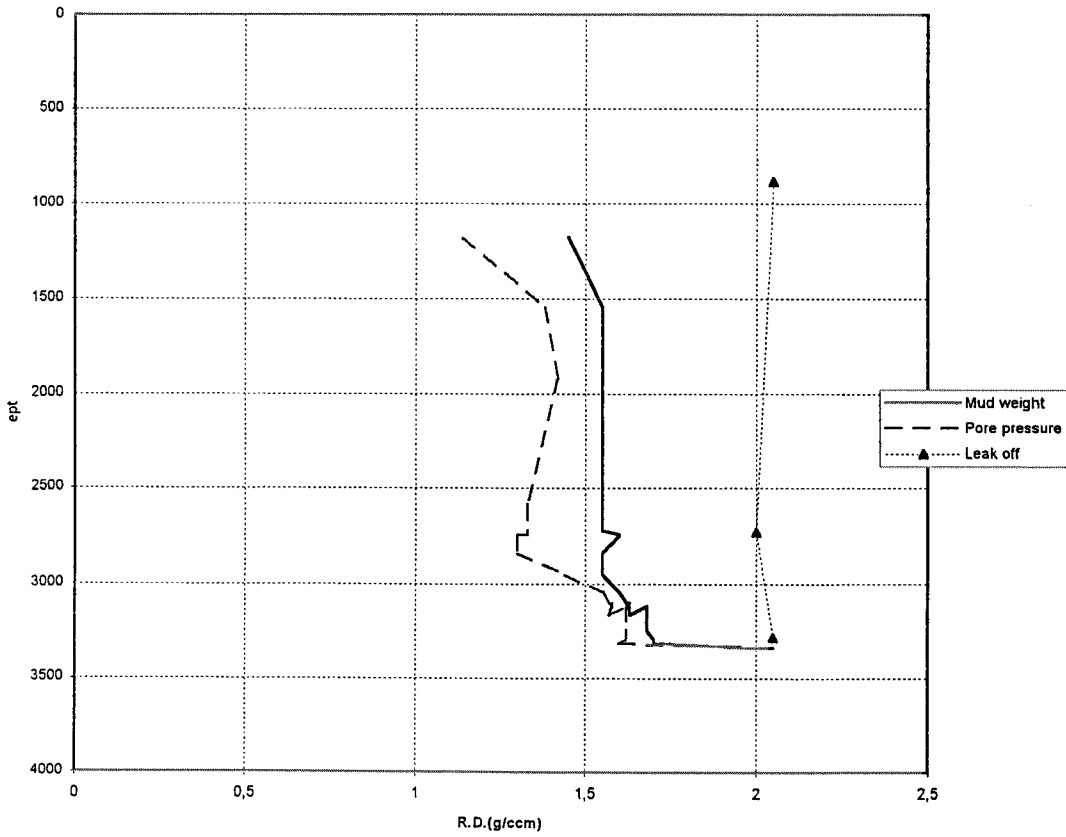
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DU IN FOC BHC AC GR	886.0 - 3304.0			
FMT	3334.0 - 3374.0			
FORMATION EVALUATION	900.0 - 3400.0			
MVD	117.0 - 3430.0			
PRESSURE EVALUATION	105.0 - 3430.0			
SHDT/DIPLOG	3285.0 - 3431.0			
SPECTRALOG	3100.0 - 3304.0			
SYNTHETIC SEISMOGRAM				
TWO WAY TRAVEL TIME				
VELOCITY LOG	1515.0 - 3425.0			
VSP				
ZCDL CNL GR	3285.0 - 3431.0			

Depth v.s. time plot for well: 7/7-2



Composite plot for well: 7/7-2



Main operations for well: 7/7-2**Main operation: DRILLING**

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	3750	62,5	5,95
BOP/WELLHEAD EQ	1950	32,5	3,10
CASING	17700	295,0	28,10
CIRC/COND	1950	32,5	3,10
DRILL	21330	355,5	33,86
HOLE OPEN	3270	54,5	5,19
REAM	510	8,5	0,81
TRIP	12540	209,0	19,90
Total	63000	1050,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	570	9,5	2,26
CIRC/COND	2460	41,0	9,77
CORE	1710	28,5	6,79
DST	9810	163,5	38,97
LOG	6450	107,5	25,63
OTHER	120	2,0	0,48
RFT/FIT	270	4,5	1,07
TRIP	3780	63,0	15,02
Total	25170	419,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	1200	20,0	5,49
MAINTAIN/REP	18930	315,5	86,68
WAIT	60	1,0	0,27
WELL CONTROL	1650	27,5	7,55
Total	21840	364,0	100,00

Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	630	10,5	12,73
TRANSIT	4320	72,0	87,27
Total	4950	82,5	100,00

Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	240	4,0	2,52
CIRC/COND	1380	23,0	14,51
CUT	1200	20,0	12,62
MECHANICAL PLUG	990	16,5	10,41
OTHER	510	8,5	5,36
SQUEEZE	150	2,5	1,58
TRIP	5040	84,0	53,00
Total	9510	158,5	100,00

Total time used: Hours

WELL HISTORY 7/7 -2

GENERAL:

Well 7/7 -2 were the second commitment well within the licence PL148 and were designed to test the structural/stratigraphic potential of the A-prospect, interpreted as an Upper Jurassic "channel sandstone".

The main objectives can be summarised as

- Prove hydrocarbons within the A- prospect, particularly in Upper Jurassic sandstones.
- Verify the hydrocarbon type present in the structure
- Verify the seismic interpretation and geological model for the A-prospect area.
- Fulfil the work obligations of the license

OPERATION:

The Well was spudded 21 January, and respudded the 23 January by the semi-submersible rig "Deepsea Bergen", and completed the 23 March 1992 at a depth of 3430m RKB in Permian Zechstein Group. The greater part of the Primary prospect, the Upper Jurassic Ula sandstone Equivalent encountered at 3327m RKB, proved to be sandy with oil shows. The lowest part of the Ula sandstone Equivalent (Gyda Member) was cored which continued into the Triassic Smiths Bank Formation for about 16.5m.

The Jurassic reservoir lithology consisted primarily of fine, well-sorted silica-cemented sandstone with poor visual porosity.

The well was drilled to a total depth of 3430m RKB versus a planned 3500m RKB, as the Permian was about 70 meters higher than prognosis.

TESTING:

Two DST test were performed in the well 7/7 -2. One in the Triassic Smiths Bank Formation, and one in the Upper Jurassic Ula sandstone Equivalent.

Geological Tops.

Well: 7/7-2.

	Depth m (RKB).
Nordland Group	105.0
Hordaland Group	1179.0
Rogaland Group	2471.0
Balder Fm	2471.0
Sele Fm	2510.0
Lista Fm	2665.0
Shetland Group	2723.0
Ekofisk Fm	2723.0
Tor Fm	2854.0
Hod Fm	2975.0
Cromer Knoll Group	3106.0
Rødby Fm	3106.0
Sola Fm	3126.0
Tuxen Fm	3140.0
Åsgard Fm	3153.0
Tyne Group	3240.0
Mandal Fm	3240.0
Farsund Fm	3282.0
Ula Sst Eq	3327.0
Hegre Group	3346.5
Smith Bank Fm	3346.5
Zechstein Group	3388.0
T.D. MD	3430.0