

WDSS Report

Date: 27/02/98

PB/SKR

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Well no:	Operator:
3/07-05	SHELL

Well

Coordinates :	56° 28' 47.00" N 04° 18' 17.60" E	UTM coord. :	6260375.71 N 580373.35 E
License no :	147	Permit no :	708
Rig :	DYVI STENA	Rig type :	SEMI-SUB.
Contractor :	STENA OFFSHORE A/S		
Bottom hole temp:	126 °C	Elev. KB :	25 M
Spud. date :	91.12.06	Water depth :	67 M
Compl. date :	92.02.08	Total depth :	3666 M
Spud. class :	WILDCAT	Form. at TD :	
Compl. class :	P&A. DRY HOLE	Prod.form. :	ZECHSTEIN
Seisloca :	SH8901-104 KRYSSN. 87-233		

Licensees

50.000000 DEN NORSKE STATS OLJESELSKAP A.S
50.000000 A/S NORSKE SHELL

Casing and Leak-off Tests

Type	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	153.0	36	155.0	
INTERM.	20	601.0	26	615.0	1.49
INTERM.	13 3/8	1716.0	17 1/2	1730.0	1.84
INTERM.	9 5/8	3075.0	12 1/4	3090.0	1.96

Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	3383.0 - 3393.0	10.0	100.0

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Mud

Depth	Mud weight	Visc.	Mud type
610.0	1.25	68.0	WATER BASED
682.0	1.25	68.0	WATER BASED
914.0	1.30	54.0	WATER BASED
1186.0	1.30	51.0	WATER BASED
1546.0	1.30	59.0	WATER BASED
1725.0	1.40	53.0	WATER BASED
2737.0	1.44	56.0	WATER BASED
2781.0	1.48	59.0	WATER BASED
2992.0	1.50	62.0	WATER BASED
3040.0	1.50	56.0	WATER BASED
3085.0	1.56	67.0	WATER BASED
3199.0	1.50	65.0	WATER BASED
3271.0	1.50	58.0	WATER BASED
3296.0	1.50	57.0	WATER BASED
3307.0	1.50	63.0	WATER BASED
3337.0	1.50	63.0	WATER BASED
3393.0	1.55	64.0	WATER BASED
3439.0	1.55	57.0	WATER BASED
3508.0	1.57	61.0	WATER BASED
3646.0	1.60	53.0	WATER BASED
3666.0	1.50	44.0	WATER BASED

Drill Stem Test (intervals and pressures)

Test no.	Test interval meter	Choke size	Pressure (psi) WHP	BTHP	FFP

Drill Stem Test (recovery)

Test no.	Oil Sm3/d	Gas Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3

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Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	620 - 3666	360
CUTTINGS	620 - 3666	330

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500
ACBL VDL GR	523.0 - 3075.0		
BHC ACL	1821.0 - 3070.0		
CDM AP/SHDT-COMPUTED	3073.0 - 3550.0		
CDN	2700.0 - 3000.0		
CDN LWD	2700.0 - 3260.0		
CDR	2750.0 - 3075.0		
CDR LWD	2720.0 - 3640.0		
DIFL BHC AC GR	550.0 - 3575.0		
DLL MLL GR	3045.0 - 3530.0		
FMT	3382.0 - 3445.0		
MUDLOG	150.0 - 3660.0		
MWD LWD RESIST LOG	105.0 - 3666.0		
PRESSURE DATA PLOT	125.0 - 3666.0		
SHDT	3073.0 - 3550.0		
SYNTHETIC SEISMOGRAM			

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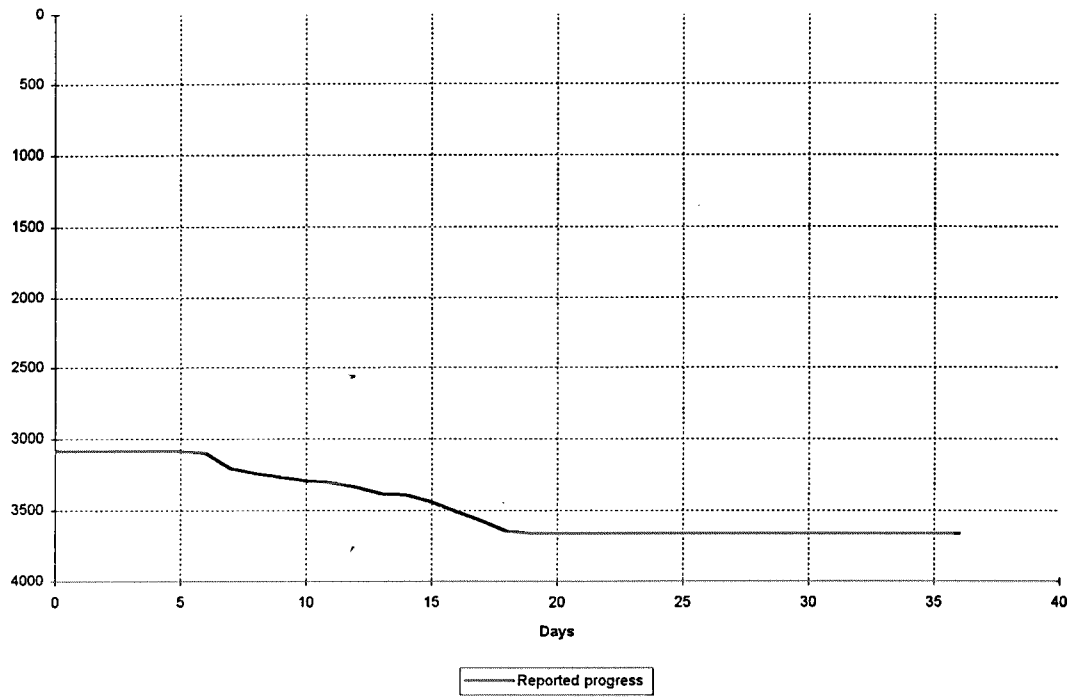
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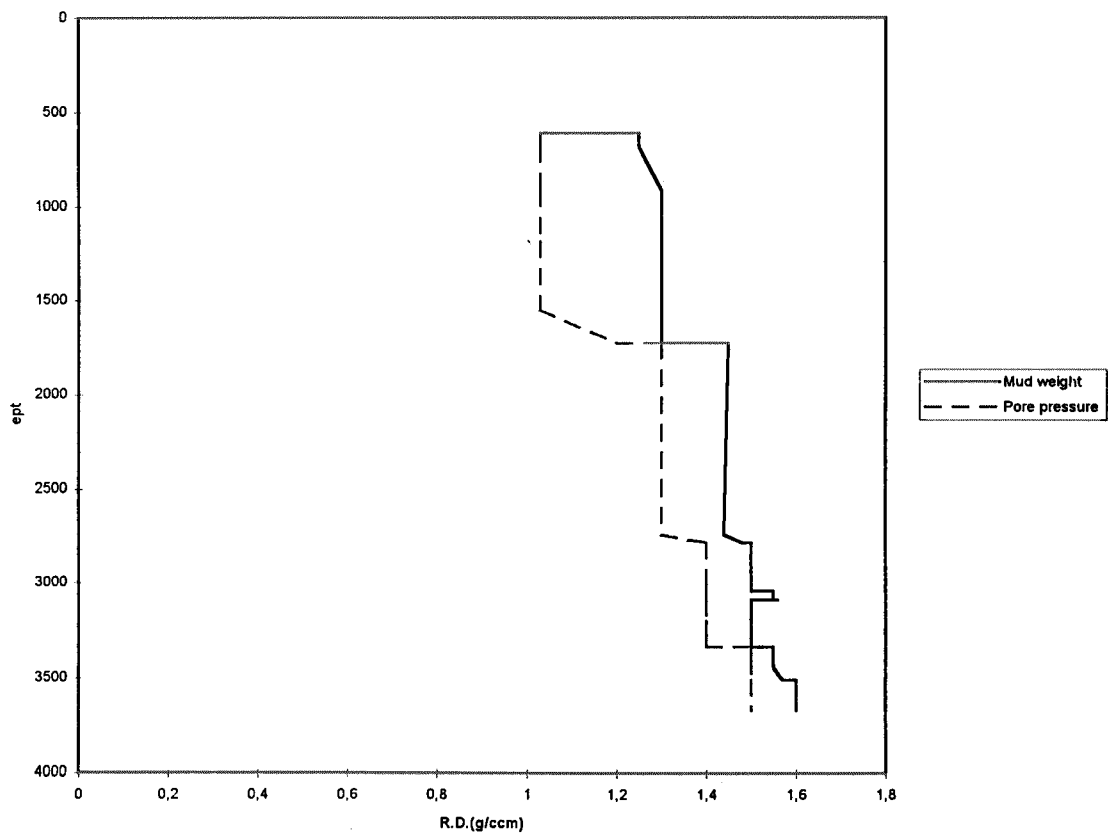
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VELOCITY LOG	600.0 - 3560.0			
ZCDL CN GR	570.0 - 3543.0			
ZERO OFFSET VSP	1000.0 - 3550.0			

Depth v.s. time plot for well: 3/7-5



Composite plot for well: 3/7-5



Main operations for well: 3/7-5

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	1020	17,0	1,60
BOP/WELLHEAD EQ	3300	55,0	5,17
CASING	11460	191,0	17,97
CIRC/COND	2670	44,5	4,19
DRILL	26670	444,5	41,82
HOLE OPEN	1470	24,5	2,30
OTHER	210	3,5	0,33
REAM	990	16,5	1,55
SURVEY	1410	23,5	2,21
TRIP	14580	243,0	22,86
Total	63780	1063,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC/COND	120	2,0	1,14
CORE	180	3,0	1,70
LOG	5490	91,5	51,99
TRIP	4770	79,5	45,17
Total	10560	176,0	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	1140	19,0	77,55
MAINTAIN/REP	270	4,5	18,37
WAIT	60	1,0	4,08
Total	1470	24,5	100,00

Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	2640	44,0	100,00
Total	2640	44,0	100,00

Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	1860	31,0	17,17
CIRC/COND	297	5,0	2,74
CUT	1980	33,0	18,28
EQUIP RECOVERY	1140	19,0	10,53
TRIP	5553	92,6	51,27
Total	10830	180,5	100,00

Total time used: Hours

WELL HISTORY 3/7-5

GENERAL:

Well 3/7-5 were designed to test the hydrocarbon potential of the "Lemen" structure, situated in the Søgne Basin, near the Norwegian-Danish boundary. The Søgne Graben is an asymmetric Mesozoic Graben situated between the Mandal High to the west, where Upper Cretaceous Chalk rest directly on gneissic basement, and the Southern Vestland Arch to the East. Two main fault systems have been periodically reactivated throughout the basin evolution. The "Lemen" prospect is a fault bounded, salt induced trap, located in the centre of the Søgne Basin. The objectives of 3/7-5 were:

- To test sandstone's of Lindesnes and Bryne Formation in a fault-bounded trap, and to prove up a potentially economic volume of hydrocarbons.
- To evaluate the prospectivity of other possible reservoir levels.
- To evaluate the charge potential of the "local" Søgne Basin hydrocarbon kitchen.
- To provide a good seismic calibration.

OPERATION:

The well was spudded on 6 December 1991 with the semi submersible rig "Dyvi Stena", and was completed 8 February 1992 at a depth of 3666 m in rock of Permian age.

No significant problems occurred during the drilling operation. The well reached a total depth of 3666 m. in Zechstein strata and encountered indications of hydrocarbons in Upper Jurassic siltstones and claystones. The well was plugged and abandoned as a dry hole with shows.

TESTING:

No DST test was performed.

Geological Tops.

Well: 3/7-5.

	Depth m (RKB).
Nordland Group	91.0
Hordaland Group	1258.0
Rogaland Group	2654.0
Balder Fm	2654.0
Sele Fm	2668.0
Lista Fm	2679.0
Shetland Group	2711.0
Ekofisk Fm	2711.0
Tor Fm.	2800.0
Hod Fm	2912.0
Cromer Knoll Group	3044.0
RødbyFm	3044.0
Sola Fm	3048.0
Tuxen Fm	3050.0
Åsgard Fm	3058.0
Tyne Group	3085.0
Haugesund Fm	3085.0
Vestland Group	3379.0
Lindesnes Fm (Ula sst)	3379.0
Bryne Fm	3436.0
Zechstein	3609.0
T.D.	3666.0