

Well no :	25/7-2	Operator :	CONOCO
Coordinates :	59° 16' 28.59" N 02° 12' 26.09" E	UTM coord. :	657105125 N 45481614 E
Licence no :	103	Permit no :	628
Rig :	DYVI STENA	Rig type :	SEMI-SUB.
Contractor :	STENA OFFSHORE A/S	Elev. KB :	25 M
Bottom hole temp:	188 °C	Water depth :	124 M
Spud. date :	90.02.08	Total depth :	4850 M
Compl. date :	90.07.18	Form. at TD	M.JURASSIC
Spud. class :	WILDCAT	Prod.form. :	
Compl. class :	P&A. GAS/COND. DISC.		
Seisloca :	CN 8525 - 6 SP 390		

## LICENSEES

10.000000	BRITOIL NORGE A/S
30.000000	NORSKE CONOCO A/S
50.000000	DEN NORSKE STATS OLJESELSKAP A.S
10.000000	AMERADA HESS NORGE 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	259.0	36	265.0	
INTERM.	20	1210.5	26	1220.0	1.57
INTERM.	13 3/8	2965.0	17 1/2	2974.0	1.94
INTERM.	9 5/8	3906.0	12 1/4	3914.0	1.96
LINER	7	4838.0	8 1/2	4850.0	

## CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery	
		M	%
1	4125.0 - 4136.2	11.2	100.0
2	4136.2 - 4145.7	9.5	100.0
3	4145.7 - 4154.7	8.9	98.9
4	4154.7 - 4169.2	14.5	100.0
5	4345.0 - 4347.4	2.4	100.0
6	4461.5 - 4488.6	27.1	100.0

## MUD

Depth	Mud weight	Visc.	Mud type
195.000	1.92	26.0	WATER BASED
265.000	1.06		WATER BASED
265.000	1.07		WATER BASED
1030.000	1.08		WATER BASED

Depth	Mud weight	Visc.	Mud type
1030.000	1.07		WATER BASED
1218.000	1.08		WATER BASED
1220.000	1.20	18.0	WATER BASED
1220.000	1.02	19.0	WATER BASED
1220.000	1.08		WATER BASED
1250.000	1.20	16.0	WATER BASED
1476.000	1.25	15.0	WATER BASED
1684.000	1.29	19.0	WATER BASED
1938.000	1.39	21.0	WATER BASED
1938.000	1.35	21.0	WATER BASED
1938.000	1.39	21.0	WATER BASED
2005.000	1.41	27.0	WATER BASED
2113.000	1.25	29.0	WATER BASED
2178.000	1.41	27.0	WATER BASED
2315.000	1.25	32.0	WATER BASED
2843.000	1.40	27.0	WATER BASED
2864.000	1.41	29.0	WATER BASED
2974.000	1.40	26.0	WATER BASED
2974.000	1.34	16.0	WATER BASED
2974.000	1.40	26.0	WATER BASED
3349.000	1.34	25.0	WATER BASED
3506.000	1.44	19.0	WATER BASED
3589.000	1.47	22.0	WATER BASED
3642.000	1.51	24.0	WATER BASED
3713.000	1.92	20.0	WATER BASED
3914.000	1.65	20.0	WATER BASED
3920.000	1.68	17.0	WATER BASED
3969.000	1.76	18.0	WATER BASED
4031.000	1.87	21.0	WATER BASED
4240.000	1.92	15.0	WATER BASED
4302.000	1.94	16.0	WATER BASED
4342.000	1.98	14.0	WATER BASED
4345.000	1.92	15.0	WATER BASED
4345.000	1.98	14.0	WATER BASED
4345.000	1.92	13.0	WATER BASED
4345.000	1.95	15.0	WATER BASED
4809.000	1.92	16.0	WATER BASED
4812.000	1.93	12.0	WATER BASED
4850.000	1.92	13.0	WATER BASED

## DRILL STEM TEST

### INTERVALS AND PRESSURES

Test no.	Interval meter		Choke size	Pressure (PSI) WHP	BTHP	FFP
1.0	4148.000	-	4273.000	15.9	1287	277

Test temperature: N/A

RECOVERY

Test no.	Oil Sm3/d	Gas Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3
1.0	1108	0	.781	.732	1596

DRILL BIT CUTTINGS AND WET SAMPLES

Sample type	Interval below KB	Number of samples
WET SAMPLES	1230 - 4850	450
CUTTINGS	1230 - 4850	330

SHALLOW GAS

Interval below KB	Remarks
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AVAILABLE LOGS

Log type	Intervals	1/200	1/500	Div.
CBL VDL GR CCL	1570.0 - 4802.0	X		
DIL GR SLS SP AMS	1000.0 - 2963.0	X	X	
DIL LSS GR CAL SP	149.0 - 1025.0	X	X	
DIL SLS MSFL GR AMS GR	2969.0 - 3918.0	X	X	
DIL SLS SP GR AMS	3911.0 - 4344.0	X	X	
DIL SLS SP GR AMS	3911.0 - 4851.0	X	X	
DLL MSFL CALI SP	3911.0 - 4012.0	X	X	
DLL MSFL SP	4050.0 - 4849.0	X	X	
DLL MSFL NGS CALI SP	3911.0 - 4340.5	X	X	
FMS GR	4010.0 - 4852.0	X	X	
LDL CNL CAL	3911.0 - 4345.0	X	X	
LDL CNL NGL CAL	4050.0 - 4852.0	X	X	
LDL GR CAL	149.0 - 1025.0	X	X	
LDL GR CAL	1210.5 - 2964.0	X	X	
LDL GR CAL	2969.0 - 3900.0	X	X	
CDM AP/SHDT	4037.0 - 4851.0	X	X	
MUD	1200.0 - 4850.0		X	
MWD	259.0 - 3440.0		X	
NGS RATIO PLAYBACK	3911.0 - 4340.5	X	X	
NGS RATIOS	4050.0 - 4852.0	X		

Log type	Intervals		1/200	1/500	Div.
RFT	4138.5	- 4292.0			
RFTB AMS	4255.0	- 4567.0	X		
VELOCITY	260.0	- 4830.0		X	
SYNTHETIC SEISMOGRAM	10 cm/s				4
VSP	10 cm/s				31
VSP	500,0	- 4857,0			1

## Main operations for well: 25/7-2

### Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	1290	21,5	0,87
BOP/WELLHEAD EQ	12030	200,5	8,07
CASING	16680	278,0	11,19
CIRC/COND	6180	103,0	4,15
DRILL	60870	1014,5	40,85
HOLE OPEN	2460	41,0	1,65
PRESS DETECTION	330	5,5	0,22
REAM	7650	127,5	5,13
SURVEY	900	15,0	0,60
TRIP	40080	668,0	26,90
WAIT	540	9,0	0,36
Total	149010	2483,5	100,00

### Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	570	9,5	1,88
CIRC/COND	1140	19,0	3,76
CORE	3030	50,5	10,00
DST	8040	134,0	26,53
LOG	9810	163,5	32,38
RFT/FIT	750	12,5	2,48
TRIP	6960	116,0	22,97
Total	30300	505,0	100,00

### Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	19110	318,5	42,05
LOST CIRC	60	1,0	0,13
MAINTAIN/REP	17310	288,5	38,09
WAIT	8880	148,0	19,54
WELL CONTROL	90	1,5	0,20
Total	45450	757,5	100,00

### Main operation: MOVING

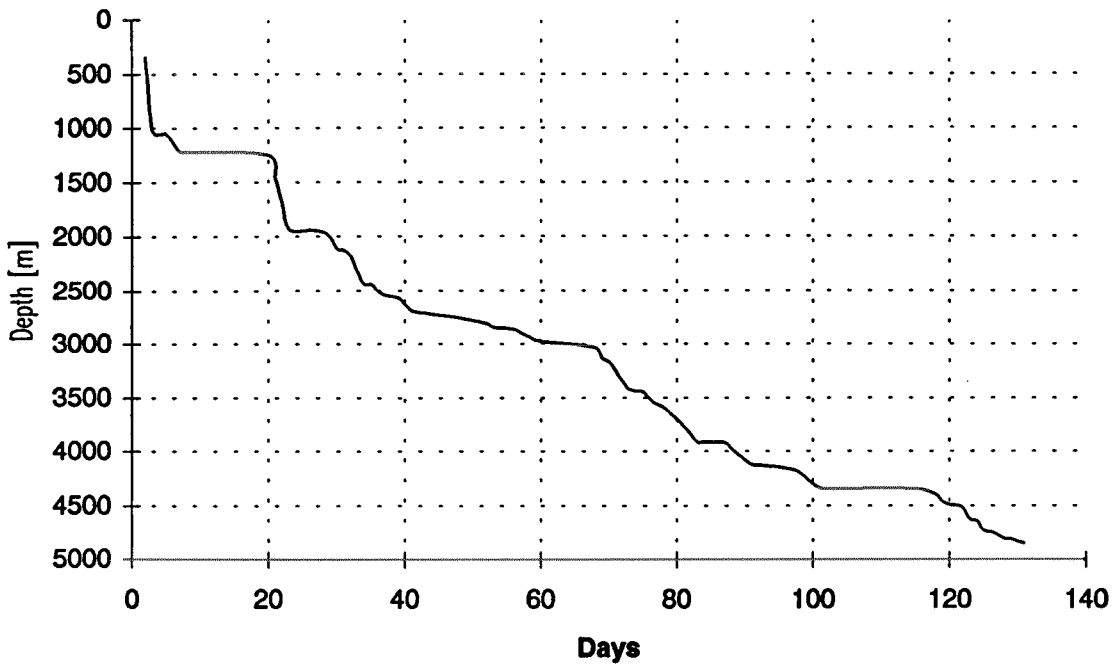
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	990	16,5	49,25
TRANSIT	1020	17,0	50,75
Total	2010	33,5	100,00

### Main operation: PLUG & ABANDON

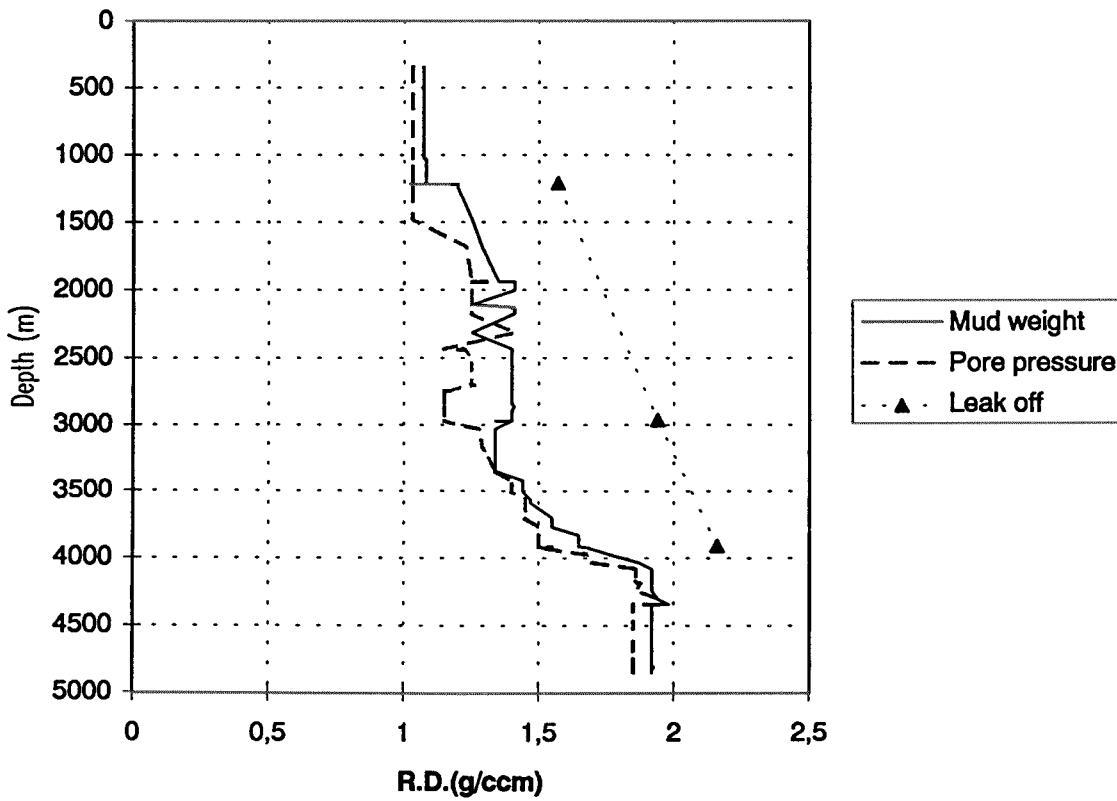
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	960	16,0	18,93
CUT	720	12,0	14,20
EQUIP RECOVERY	510	8,5	10,06
PERFORATE	150	2,5	2,96
TRIP	2730	45,5	53,85
Total	5070	84,5	100,00

Total time used:  Hours

**Depth vs time for well: 25/7-2**



**Composite plot for well: 25/7-2**



# Well History 25/7-2.

## General:

Well 25/7-2 was located on the downthrown side of the major N-S boundary faults. The block is situated in the southern part of the Viking Graben, approximately 180 km west of the Norwegian coast. The block is bounded to the east by the Utsira Basement High, and a system of predominantly north-south major boundary faults, similar to those rimming the East Shetland Platform/Fladen Spur which delineate the shape of the Viking Graben. Structurally the block is analogous to the Brae Field area along the western flank of the Viking Graben. The main objectives of the well were to test:

- the hydrocarbon potential of the Late Jurassic sands.

- the hydrocarbon potential of a structural closure at the Middle Jurassic sand level.

- the hydrocarbon bearing potential of the Paleocene Heimdal sands.

Trapping at Late and Middle Jurassic is provided by sealing basement rocks to the east, and by dip closure elsewhere. Events interpreted as possible gas bearing sands occur between 200 and 300 m below sealevel.

## Operations:

Wildcat well 25/7-2 was spudded by the semi-submersible rig Dyvi Stena 8 February 1990, and completed 18 July 1990 at a depth of 4850 m RKB in rocks of Jurassic age. A total of 210 sidewall cores were attempted but only 91 were recovered ie 43.3 % recovery. Four conventional cores were cut in the interval from 4125 to 4169.2 m RKB, and two in the interval from 4345 to 4349 m RKB. The well successfully tested the geological model and encountered hydrocarbons in the Late and Middle Jurassic reservoir sections. No indications of shallow gas was observed. Apart from several fishing trips, the drilling procedure continued without any significant problems. The well was permanently plugged and abandoned as gas and condensate discovery.

## Testing:

One DST test was conducted in the interval 4148 to 4273 m RKB, choke size 15.9 mm and GOR 1625 Sm<sup>3</sup>/sm<sup>3</sup>.

# Geological Tops.

## Well:25/7-2

	Depth m (RKB).
Nordland Group	149,0
Utsira Fm	445,4
Hordaland Group	883,0
Skade Fm	946,0
Rogaland Group	2098,0
Balder Fm	2098,0
Sele Fm	2184,5
Lista Fm	2258,0
Heimdal Fm	2318,0
Lista Fm	2490,0
Ty Fm	2529,0
Shetland Group	2698,0
Ekofisk Fm	2698,0
Jorsalfare Fm	2749,0
Kyrre Fm	2924,5
Tryggvason Fm	3060,0
Blodøks Fm	3260,0
Blodøks Sand Menb	3399,0
Svarte Fm	3446,5
Cromer Knoll Group	3713,5
Rodby Fm	3713,5
Sola Fm	3874,5
Åsgard Fm	3948,0
Viking Group	4056,0
Draupne Fm	4056,0
Upper Jurassic Sand	4119,0
Heather Fm	4293,0
Vestland Group	4407,0
Hugin Fm	4407,0
Sleipner Fm	4613,0
T.D.	4852,0