

Well no :	7/7-1	Operator :	STATOIL
Coordinates :	57° 24' 56.88" N 02° 15' 59.74" E	UTM coord. :	636405340 N 45594356 E
Licence no :	148	Permit no :	626
Rig :	DEEPSEA BERGEN	Rig type :	SEMI-SUB.
Contractor :	ODFJELL DRILLING AND CONSULTING COMPANY A/S		
Bottom hole temp:	123°C	Elev. KB :	23 M
Spud. date :	89.12.30	Water depth :	82 M
Compl. date :	90.02.20	Total depth :	3500 M
Spud. class :	WILDCAT	Form. at TD	TRIASSIC
Compl. class :	P&A. DRY HOLE	Prod.form. :	
Seisloca :	NOD 6 - 86 - 010 SP 260		

## LICENSEES

50,000000	DEN NORSKE STATS OLJESELSKAP A.S
15,000000	TOTAL NORGE A.S
35,000000	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	167,0	36	168,0	
INTERM.	20	567,0	26	580,0	1,64
INTERM.	13 3/8	2548,0	17 1/2	2565,0	1,86
INTERM.	9 5/8	3251,0	12 1/4	3263,0	1,63

## CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery	
		M	%
1	2786,0 - 2803,0	17,0	100,0
2	3296,0 - 3313,4	17,4	100,0

## MUD

Depth	Mud weight	Visc.	Mud type
576,000	1,03		WATER BASED
2565,000	1,56	26,0	WATER BASED
3263,000	1,50	27,0	WATER BASED
3365,000	1,55	43,0	WATER BASED

## DRILL BIT CUTTINGS AND WET SAMPLES

Sample type	Interval below KB	Number of samples
WET SAMPLES	590 - 3500	270
CUTTINGS	580 - 3500	300

## SHALLOW GAS

Interval below KB	Remarks
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## AVAILABLE LOGS

Log type	Intervals	1/200	1/500	Div.
AC CBL VDL GR	1333,0 - 2554,5	X		
AC CBL VDL GR	1903,2 - 3253,5	X		
CDL	568,0 - 2567,0	X	X	
CDL CNL	2549,0 - 3261,0	X	X	
CDL CNL	3253,0 - 3502,0	X	X	
DIFL BHC AC GR	568,0 - 2567,0	X	X	
DIFL BHC AC GR	2549,0 - 3261,0	X	X	
DIFL BHC AC GR	3253,0 - 3502,0	X	X	
MLL GR	3253,5 - 3505,3	X	X	
CDM	3254,0 - 3500,0	X		
CDM AP	3254,0 - 3500,0	X	X	
PRESS. EVAL. LOG	150,0 - 3500,0			1:1000
SPECTRALOG	3253,5 - 3505,3	X	X	
TEMPERATURE LOG	2548,5 - 3260,7	X	X	
VELOCITY LOG	550,0 - 3470,0		X	
FMT	3290,0 - 3317,0		X	
MUD	150,0 - 3500,0		X	
MWD	175,0 - 3500,0	X	X	
SYNTHETIC SEISMOGRAM	10 cm/s			2
V.S.P	10 cm/s			6

## Main operations for well: 7/7-1

### Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	2520	42,0	4,74
BOP/WELLHEAD EQ	3150	52,5	5,93
CASING	8460	141,0	15,91
CIRC/COND	1800	30,0	3,39
DRILL	23130	385,5	43,51
HOLE OPEN	1020	17,0	1,92
OTHER	960	16,0	1,81
PRESS DETECTION	150	2,5	0,28
REAM	630	10,5	1,19
SURVEY	120	2,0	0,23
TRIP	9870	164,5	18,57
WAIT	1350	22,5	2,54
<b>Total</b>	<b>53160</b>	<b>886,0</b>	<b>100,00</b>

### Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC/COND	420	7,0	4,58
CORE	930	15,5	10,13
LOG	5580	93,0	60,78
OTHER	330	5,5	3,59
TRIP	1920	32,0	20,92
<b>Total</b>	<b>9180</b>	<b>153,0</b>	<b>100,00</b>

### Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
MAINTAIN/REP	540	9,0	100,00
<b>Total</b>	<b>540</b>	<b>9,0</b>	<b>100,00</b>

### Main operation: MOVING

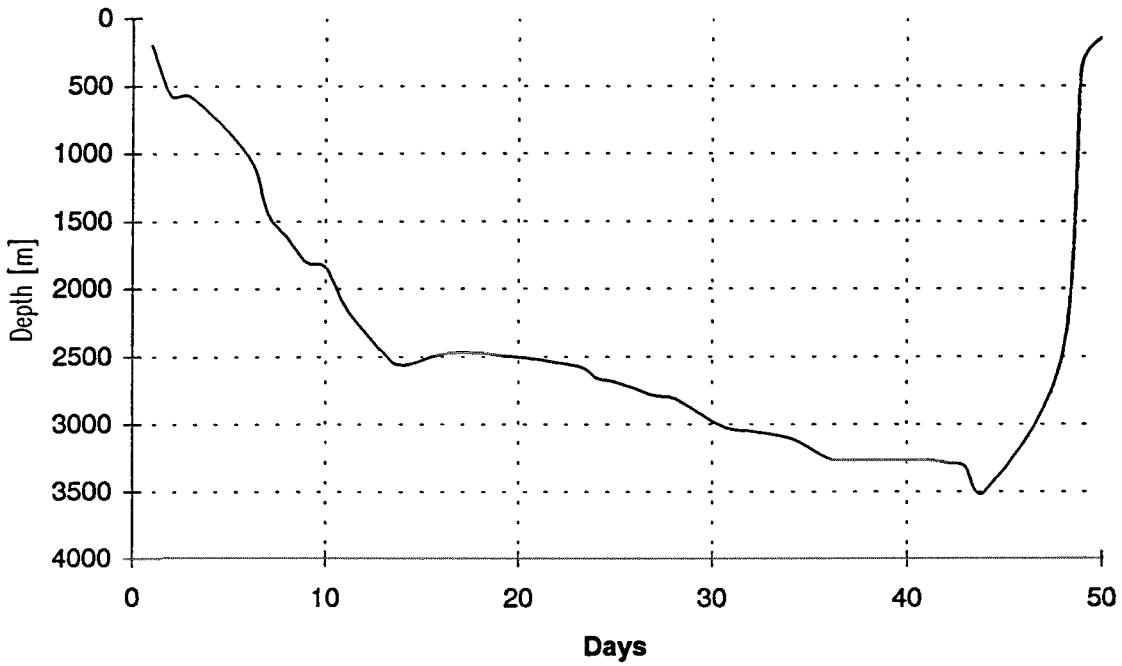
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	930	15,5	75,61
TRANSIT	300	5,0	24,39
<b>Total</b>	<b>1230</b>	<b>20,5</b>	<b>100,00</b>

### Main operation: PLUG & ABANDON

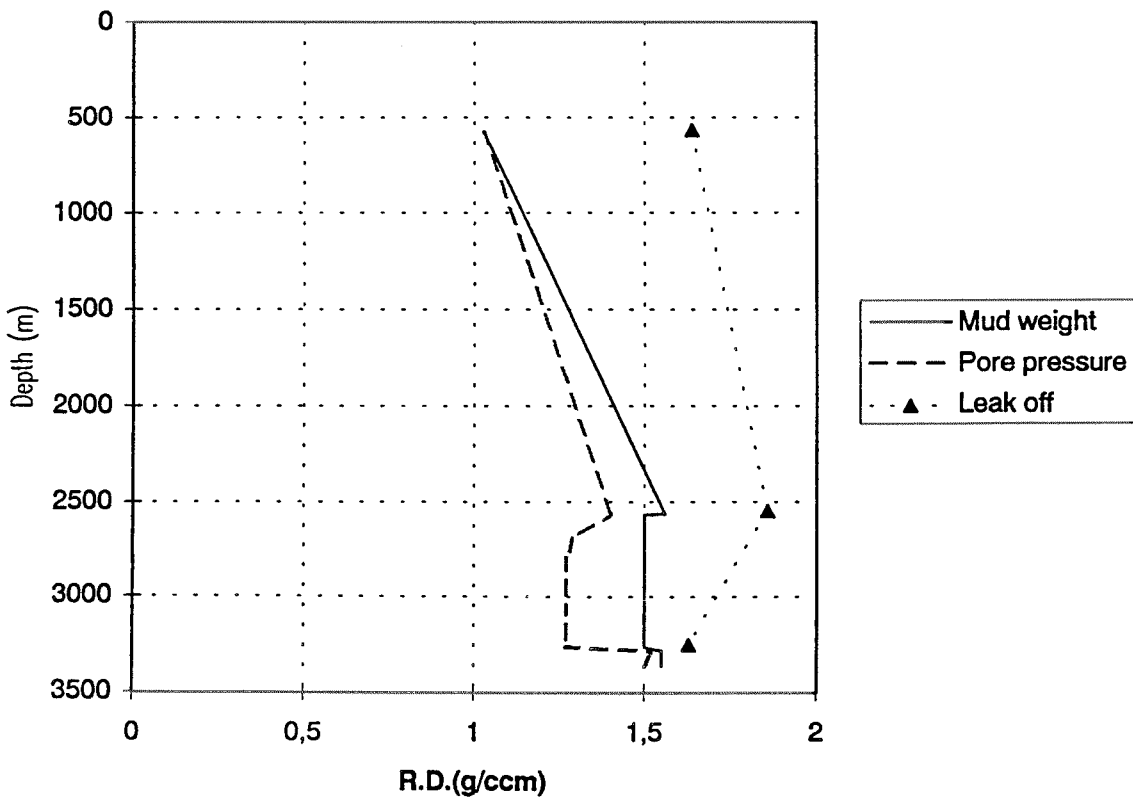
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	690	11,5	11,98
CIRC/COND	540	9,0	9,38
EQUIP RECOVERY	870	14,5	15,10
MECHANICAL PLUG	150	2,5	2,60
OTHER	180	3,0	3,13
SQUEEZE	30	0,5	0,52
TRIP	2730	45,5	47,40
WAIT	570	9,5	9,90
<b>Total</b>	<b>5760</b>	<b>96,0</b>	<b>100,00</b>

Total time used:  Hours

**Depth vs time for well: 7/7-1**



**Composite plot for well: 7/7-1**



# Well History 7/7-1.

## General:

Well 7/7-1 was the first well in license 148, and was designed to drill a tilted block on the Jæren High. Early/Middle Jurassic events resulted in uplift and erosion, such that Jurassic sediments at the well location are missing. Due to the Tertiary uplift and eastward tilting of the Shetland Platform, along with a relative drop in sealevel, this tilting gave rise to an eastward drainage pattern. Submarine fan sandstones derived from deltaic and barrier bar complexes in the Moray Firth area were deposited in the Central Graben and on to the Jæren High. Several lobe systems developed, giving rise to continuous and periodic sandstone deposition as the lobes migrated laterally. The eastern pinchout of these systems occurs in blocks 7/4 and 7/7. The primary objective of this well was an anticlinal closure at the Base Cretaceous Unconformity level, the C-prospect, Triassic sandstones. The secondary objective was the B-prospect, Paleocene sandstones, a possible closure along a pinchout of a sandy sequence consisting of distal turbidites. Some high amplitude anomalies were indicative of shallow gas between 241 to 395 m RKB. The nearest one at 308 m RKB was situated approximately 300 m east of the well location. Sticky and swelling "gumbo" clays are common in the area.

## Operations:

Wildcat well 7/7-1 was spudded 30 December 1989 by the semi-submersible rig Deepsea Bergen, and completed 20 February 1990 at a depth of 3500 m RKB in rocks of Triassic age. The well was drilled approximately 200 m into the Triassic, which consisted of brick red sandstones, interbedded with siltstone / claystone. The Paleocene sandstones came in nearly 60 m below the prognosed depth, and only minor amounts of sand were encountered (Andrew Formation). No indication of hydrocarbons were seen in this well. No shallow gas was encountered. Two conventional cores were cut. A total of 125 sidewall cores were attempted, and 118 sidewall cores were recovered. Apart for some tight hole problems, drilling went without any severe problems. Permanently plugged and abandoned as a dry hole.

## Testing:

No DST tests were performed in this well.

# Geological Tops.

## Well: 7/7-1

Depth m (RKB).

Nordland Group	106,0
Hordaland Group	1256,0
Rogaland Group	2626,0
Balder Fm	2626,0
Sele Fm	2660,0
Lista Fm	2758,0
Andrew Fm	2780,0
Maureen Fm	2808,0
Shetland Group	2830,0
Ekofisk Fm	2830,0
Tor Fm	2925,0
Hod Fm	3108,0
Cromer Knoll Group	3243,0
Åsgard Fm	3243,0
Triassic Group	3288,0
Smith Bank Fm	3288,0
T.D.	3500,0