

**General information**

Wellbore name	7/4-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	7/4-1
Seismic location	ST 9216-403 X-OVER NOD6-86-041
Production licence	148
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	763-L
Drilling facility	DEEPSEA BERGEN
Drilling days	48
Entered date	05.07.1993
Completed date	21.08.1993
Release date	21.08.1995
Publication date	31.10.2003
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	23.0
Water depth [m]	82.5
Total depth (MD) [m RKB]	3133.0
Maximum inclination [°]	2.2
Bottom hole temperature [°C]	128
Oldest penetrated age	LATE PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	57° 44' 11.92" N
EW degrees	2° 11' 38.95" E
NS UTM [m]	6399820.83
EW UTM [m]	452016.11
UTM zone	31
NPDID wellbore	2136

**Wellbore history****General**

Well 7/4-1 was drilled on a structure lying on the northeastern flank of the Central Graben. The main objectives for the well were to test commercial reserves of hydrocarbons in the Upper Jurassic of the Alpha prospect and to establish the "Jæren High" Model analogy proven by the 7/7-2 discovery well.

Operations and results

Exploration well 7/4-1 was spudded with the semi-submersible installation "Deepsea Bergen" on 5 July 1993 and drilled to TD at 3133 m, 50 m into rocks of the Permian Zechstein Group anhydrite. The well was drilled with seawater and viscous pills down to 926 m and with KCl / polymer / glycol mud from 926 m to TD.

Seventeen m of Late Jurassic sandstones were penetrated. No hydrocarbons were observed. Three cores were cut; one in the interval 2980 m - 2989 m in the Mandal Formation, the second in the interval 3015 m - 3024 m in the Farsund Formation, and the third in the interval 3069 m - 3077 m in the Gyda Sandstone Member. No fluid samples were taken. The well was permanently abandoned as a dry well on 22 August 1993.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
930.00	3132.00

Cuttings available for sampling?	YES
----------------------------------	-----

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	2980.0	2988.6	[m]
2	3015.0	3023.6	[m]
3	3069.0	3076.4	[m]

Total core sample length [m]	24.6
Cores available for sampling?	YES

Core photos



2980-2985m



2985-2988m



3015-3020m



3020-3023m



3069-3074m



3074-3076m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1310.0	[m]	DC	MILL
1330.0	[m]	DC	MILL
1350.0	[m]	DC	MILL
1370.0	[m]	DC	MILL
1390.0	[m]	DC	MILL
1410.0	[m]	DC	MILL
1430.0	[m]	DC	MILL
1450.0	[m]	DC	MILL
1470.0	[m]	DC	MILL
1490.0	[m]	DC	MILL
1510.0	[m]	DC	MILL
1530.0	[m]	DC	MILL
1550.0	[m]	DC	MILL
1570.0	[m]	DC	MILL
1590.0	[m]	DC	MILL
1610.0	[m]	DC	MILL
1630.0	[m]	DC	MILL
1650.0	[m]	DC	MILL
1670.0	[m]	DC	MILL
1690.0	[m]	DC	MILL
1710.0	[m]	DC	MILL
1730.0	[m]	DC	MILL
1750.0	[m]	DC	MILL



1770.0	[m]	DC	MILL
1790.0	[m]	DC	MILL
1810.0	[m]	DC	MILL
1830.0	[m]	DC	MILL
1850.0	[m]	DC	MILL
1870.0	[m]	DC	MILL
1890.0	[m]	DC	MILL
1910.0	[m]	DC	MILL
1920.0	[m]	DC	MILL
1930.0	[m]	DC	MILL
1945.0	[m]	DC	MILL
1960.0	[m]	DC	MILL
1975.0	[m]	DC	MILL
1990.0	[m]	DC	MILL
2005.0	[m]	DC	MILL
2020.0	[m]	DC	MILL
2035.0	[m]	DC	MILL
2050.0	[m]	DC	MILL
2065.0	[m]	DC	MILL
2085.0	[m]	DC	MILL
2100.0	[m]	DC	MILL
2115.0	[m]	DC	MILL
2130.0	[m]	DC	MILL
2145.0	[m]	DC	MILL
2160.0	[m]	DC	MILL
2188.8	[m]	SWC	STATO
2200.0	[m]	DC	MILL
2214.8	[m]	SWC	STATO
2228.0	[m]	SWC	STATO
2247.0	[m]	SWC	STATO
2265.6	[m]	SWC	STATO
2282.9	[m]	SWC	STATO
2296.0	[m]	SWC	STATO
2315.4	[m]	SWC	STATO
2330.0	[m]	DC	STATO
2355.9	[m]	SWC	STATO
2853.0	[m]	DC	MILL
2883.0	[m]	DC	MILL
2937.0	[m]	DC	MILL
2974.2	[m]	SWC	STATO



2980.1	[m]	C	STATO
2984.5	[m]	C	STATO
2988.5	[m]	C	STATO
3000.0	[m]	DC	MILL
3003.0	[m]	DC	MILL
3006.0	[m]	DC	MILL
3009.0	[m]	DC	MILL
3011.7	[m]	SWC	STATO
3015.0	[m]	C	STATO
3019.5	[m]	C	STATO
3023.5	[m]	C	STATO
3027.0	[m]	DC	MILL
3030.0	[m]	DC	MILL
3033.0	[m]	DC	MILL
3036.0	[m]	DC	MILL
3042.0	[m]	DC	MILL
3045.0	[m]	DC	MILL
3048.0	[m]	DC	MILL
3051.0	[m]	DC	MILL
3054.0	[m]	DC	MILL
3057.7	[m]	SWC	STATO
3060.7	[m]	SWC	STATO
3064.2	[m]	SWC	STATO
3066.0	[m]	DC	MILL
3070.1	[m]	C	STATO
3074.5	[m]	C	STATO
3078.0	[m]	DC	MILL
3081.0	[m]	DC	MILL
3084.0	[m]	DC	MILL

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
106	NORDLAND GP
1088	HORDALAND GP
2180	ROGALAND GP
2180	BALDER FM
2208	SELE FM
2317	LISTA FM



2356	VÅLE FM
2366	SHETLAND GP
2366	TOR FM
2646	HOD FM
2827	HIDRA FM
2840	CROMER KNOLL GP
2840	RØDBY FM
2847	SOLA FM
2882	TUXEN FM
2948	ÅSGARD FM
2970	TYNE GP
2970	MANDAL FM
2991	FARSUND FM
3065	VESTLAND GP
3065	ULA FM
3083	ZECHSTEIN GP

Composite logs

Document name	Document format	Document size [MB]
2136	pdf	0.32

Geochemical information

Document name	Document format	Document size [MB]
2136_1	pdf	1.42
2136_2	pdf	1.01

Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [MB]
2136_7_4_4_COMPLETION_REPORT_AND_LOG	pdf	9.19

Logs





Log type	Log top depth [m]	Log bottom depth [m]
DIFL ACL ZDL GR	905	2460
DIFL ACL ZDL GR CBL	2445	2983
DIFL ACL ZDL GR CN CBL	2969	3111
DIPS GR	2825	2979
DIPS GR	2969	3130
FMT GR	3069	3072
MWD	105	3133
SWC GR	2052	2360
SWC GR	2837	2979
SWC GR	2974	3126
VSP	1480	3130

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
CONDUCTOR	30	167.0	36	167.0	0.00	LOT
INTERM.	20	900.0	26	901.0	2.00	LOT
INTERM.	13 3/8	2445.0	17 1/2	2447.0	2.00	LOT
INTERM.	9 7/8	2970.0	12 1/4	2972.0	2.08	LOT
OPEN HOLE		3133.0	8 1/2	3133.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
367	1.03	16.0		DUMMY	
775	1.03	16.0		DUMMY	
920	1.03			DUMMY	
1110	1.50	40.0		WATER BASED	
1830	1.64	46.0		WATER BASED	
2200	1.64	36.0		WATER BASED	
2215	1.64	57.0		WATER BASED	
2314	1.64	54.0		WATER BASED	
2431	1.64	49.0		WATER BASED	
2460	1.64	35.0		WATER BASED	
2567	1.64	32.0		WATER BASED	



2817	1.71	32.0		WATER BASED	
2950	1.74	34.0		WATER BASED	
2980	1.74	42.0		WATER BASED	
2989	1.74	34.0		WATER BASED	
3069	1.85	50.0		WATER BASED	
3077	1.89	46.0		WATER BASED	

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
2136 Formation pressure (Formasjonstrykk)	pdf	0.21

