General information

Wellbore name	34/10-41 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	34/10-41
Seismic location	st 9207- inline 2973 & crossline 886
Production licence	050
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	890-L
Drilling facility	DEEPSEA TRYM
Drilling days	47
Entered date	13.07.1997
Completed date	28.08.1997
Release date	28.08.1999
Publication date	06.01.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	141.0
Total depth (MD) [m RKB]	3420.0
Final vertical depth (TVD) [m RKB]	2658.0
Maximum inclination [°]	61.8
Bottom hole temperature [°C]	98
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	61° 13' 54.34'' N
EW degrees	2° 5' 42.3'' E
NS UTM [m]	6789100.19
EW UTM [m]	451412.46
UTM zone	31
NPDID wellbore	3085

Wellbore history

General

Well 34/10-41 S was drilled west of the Gullfaks Field and slightly south of the Tordis Field on the Tampen Spur in the North Sea. The primary objective was to test the hydrocarbon potential in the "A-prospect" at Middle Jurassic Brent Group level. The secondary objective was to test the Early Jurassic Statfjord Group.

Operations and results

Wildcat well 34/10-41 S was spudded with the semi-submersible installation Deepsea Trym on 13 July 1997 and drilled to TD at 3420 m in the Early Jurassic Statfjord Group. At 3098 m problems with steering and hole angle made it necessary to sidetrack in order to reach the planned secondary target at top Statfjord Group. The well was plugged back ca 270 m and sidetracked (34/10-41 S T2) from 2913 m. The well was drilled with spud mud down to 1050 m and with Quadrill KCl/glycol mud in both well tracks below 1050 m to TD.

The top of the Brent Group was penetrated at 2553 m, approximately 18 m above the prognosed depth, and proved to be dry. The seismic anomaly in top of the prospect turned out to be a lithology effect. From the claystone in the Heather Formation, a very calcareous sandstone was penetrated in the Tarbert Formation. It is believed that this transition to a high velocity layer is the cause of the amplitude. The Statfjord Group was penetrated at 3367.5 m and was also proven dry. Except for occasional fluorescence and cut in claystones between 2472 m and 2775 m there were no shows in the well. The lack of migrated oil was in agreement with post-well organic geochemical analyses, where extracts proved to be more or less contaminated by the mud and devoid of typical migrated hydrocarbons.

No cores were cut and no wire line fluid samples were taken in the well.

The well was permanently abandoned on 28 August 1997 as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1060.00	3419.00

Cuttings available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1060.0	[m]	DC	GEOSTR
1070.0	[m]	DC	GEOSTR

1090.0	[m]	DC	GEOSTR
1100.0	[m]	DC	GEOSTR
1140.0	[m]	DC	GEOSTR
1170.0	[m]	DC	GEOSTR
1180.0	[m]	DC	GEOSTR
1200.0	[m]	DC	GEOSTR
1210.0	[m]	DC	GEOSTR
1230.0	[m]	DC	GEOSTR
1240.0	[m]	DC	GEOSTR
1260.0	[m]	DC	GEOSTR
1270.0	[m]	DC	GEOSTR
1290.0	[m]	DC	GEOSTR
1300.0	[m]	DC	GEOSTR
1320.0	[m]	DC	GEOSTR
1330.0	[m]	DC	GEOSTR
1360.0	[m]	DC	GEOSTR
1370.0	[m]	DC	GEOSTR
1410.0	[m]	DC	GEOSTR
1430.0	[m]	DC	GEOSTR
1440.0	[m]	DC	GEOSTR
1460.0	[m]	DC	GEOSTR
1470.0	[m]	DC	GEOSTR
1490.0	[m]	DC	GEOSTR
1500.0	[m]	DC	GEOSTR
1520.0	[m]	DC	GEOSTR
1530.0	[m]	DC	GEOSTR
1550.0	[m]	DC	GEOSTR
1560.0	[m]	DC	GEOSTR
1580.0	[m]	DC	GEOSTR
1590.0	[m]	DC	GEOSTR
1610.0	[m]	DC	GEOSTR
1620.0	[m]	DC	GEOSTR
1640.0	[m]	DC	GEOSTR
1650.0	[m]	DC	GEOSTR
1670.0	[m]	DC	GEOSTR
1680.0	[m]	DC	GEOSTR
1690.0	[m]	DC	GEOSTR
1710.0	[m]	DC	GEOSTR
1730.0	[m]	DC	GEOSTR
1740.0	[m]	DC	GEOSTR

1760.0	[m]	DC	GEOSTR
1770.0	[m]	DC	GEOSTR
1790.0	[m]	DC	GEOSTR
1800.0	[m]	DC	GEOSTR
1820.0	[m]	DC	GEOSTR
1830.0	[m]	DC	GEOSTR
1850.0	[m]	DC	GEOSTR
1860.0	[m]	DC	GEOSTR
1880.0	[m]	DC	GEOSTR
1890.0	[m]	DC	GEOSTR
1910.0	[m]	DC	GEOSTR
1920.0	[m]	DC	GEOSTR
1940.0	[m]	DC	GEOSTR
1950.0	[m]	DC	GEOSTR
1970.0	[m]	DC	GEOSTR
1980.0	[m]	DC	GEOSTR
2000.0	[m]	DC	GEOSTR
2010.0	[m]	DC	GEOSTR
2030.0	[m]	DC	GEOSTR
2040.0	[m]	DC	GEOSTR
2070.0	[m]	DC	GEOSTR
2090.0	[m]	DC	GEOSTR
2100.0	[m]	DC	GEOSTR
2120.0	[m]	DC	GEOSTR
2130.0	[m]	DC	GEOSTR
2160.0	[m]	DC	GEOSTR
2180.0	[m]	DC	GEOSTR
2190.0	[m]	DC	GEOSTR
2210.0	[m]	DC	GEOSTR
2230.0	[m]	DC	GEOSTR
2250.0	[m]	DC	GEOSTR
2260.0	[m]	DC	GEOSTR
2280.0	[m]	DC	GEOSTR
2290.0	[m]	DC	GEOSTR
2310.0	[m]	DC	GEOSTR
2320.0	[m]	DC	GEOSTR
2340.0	[m]	DC	GEOSTR
2350.0	[m]	DC	GEOSTR
2370.0	[m]	DC	GEOSTR
2390.0	[m]	DC	GEOSTR

2400.0	[m]	DC	GEOSTR
2410.0	[m]	DC	GEOSTR
2430.0	[m]	DC	GEOSTR
2450.0	[m]	DC	GEOSTR
2453.0	[m]	DC	GEOSTR
2471.0	[m]	DC	GEOSTR
2486.0	[m]	DC	GEOSTR
2501.0	[m]	DC	GEOSTR
2504.0	[m]	SWC	WESTL
2506.5	[m]	SWC	WESTL
2508.0	[m]	SWC	WESTL
2516.0	[m]	SWC	WESTL
2516.0	[m]	DC	GEOST
2526.0	[m]	SWC	WESTL
2528.0	[m]	DC	GEOST
2537.0	[m]	SWC	WESTL
2543.0	[m]	DC	GEOST
2545.0	[m]	SWC	WESTL
2555.0	[m]	DC	GEOST
2557.0	[m]	SWC	WESTL
2558.0	[m]	DC	GEOST
2561.0	[m]	SWC	WESTL
2570.0	[m]	DC	GEOST
2591.0	[m]	DC	GEOST
2597.0	[m]	DC	GEOST
2603.0	[m]	DC	GEOST
2610.0	[m]	DC	GEOST
2613.0	[m]	SWC	WESTL
2621.0	[m]	SWC	WESTL
2625.0	[m]	DC	GEOST
2634.0	[m]	DC	GEOST
2640.0	[m]	DC	GEOST
2661.0	[m]	DC	GEOST
2669.0	[m]	DC	GEOST
2678.0	[m]	DC	GEOST
2681.0	[m]	DC	GEOST
2687.0	[m]	DC	GEOST
2694.0	[m]	DC	GEOST
2700.0	[m]	DC	GEOST
2703.0	[m]	DC	GEOST

2709.0	[m]	DC	GEOST
2712.0	[m]	DC	GEOST
2724.0	[m]	DC	GEOST
2730.0	[m]	DC	GEOST
2739.0	[m]	DC	GEOST
2742.0	[m]	DC	GEOST
2748.0	[m]	DC	GEOST
2757.0	[m]	DC	GEOST
2763.0	[m]	DC	GEOST
2772.0	[m]	DC	GEOST
2778.0	[m]	DC	GEOST
2784.0	[m]	DC	GEOST
2790.0	[m]	DC	GEOST
2796.0	[m]	DC	GEOST
2802.0	[m]	DC	GEOST
2808.0	[m]	DC	GEOST
2812.0	[m]	DC	GEOST
2820.0	[m]	DC	GEOST
2823.0	[m]	DC	GEOST
2829.0	[m]	DC	GEOST
2835.0	[m]	DC	GEOST
2841.0	[m]	DC	GEOST
2847.0	[m]	DC	GEOST
2853.0	[m]	DC	GEOST
2859.0	[m]	DC	GEOST
2868.0	[m]	DC	GEOST
2874.0	[m]	DC	GEOST
2880.0	[m]	DC	GEOST
2886.0	[m]	DC	GEOST
2892.0	[m]	DC	GEOST
2898.0	[m]	DC	GEOST
2905.0	[m]	DC	GEOST
2914.0	[m]	DC	GEOST
2917.0	[m]	DC	GEOST
2923.0	[m]	DC	GEOST
2929.0	[m]	DC	GEOST
2935.0	[m]	DC	GEOST
2941.0	[m]	DC	GEOST
2947.0	[m]	DC	GEOST
2956.0	[m]	DC	GEOST

2962.0	[m]	DC	GEOST
2971.0	[m]	DC	GEOST
2976.0	[m]	DC	GEOST
2977.0	[m]	DC	GEOST

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
166	NORDLAND GP
923	UTSIRA FM
985	HORDALAND GP
1711	ROGALAND GP
1711	BALDER FM
2026	SHETLAND GP
2507	VIKING GP
2507	HEATHER FM
2553	BRENT GP
2553	TARBERT FM
2644	NESS FM
2785	ETIVE FM
2792	RANNOCH FM
2863	BROOM FM
2875	DUNLIN GP
2875	DRAKE FM
3000	COOK FM
3099	BURTON FM
3191	AMUNDSEN FM
3368	STATFJORD GP

Geochemical information

Document name	Document format	Document size [MB]
3085_1	pdf	0.08
3085_2	pdf	2.04

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

Document name	Document format	Document size [MB]
3085_34_10_41_S_COMPLETION_REPORT	pdf	42.41

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DLL MAC SDL CHT	2108	3410
FMT QD SGR CHT	2557	2567
MWD - DPR 2A	2119	3420
MWD - DPR VSS	224	2119
SWC GR	2498	2654
VSP GR	805	2885
ZDL CND DGR CHT	2108	3419

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	224.0	36	224.0	0.00	LOT
PILOT HOLE		530.0	9 5/8	530.0	0.00	LOT
SURF.COND.	20	1046.0	26	1050.0	1.63	LOT
INTERM.	9 5/8	2109.0	12 1/4	2119.0	1.97	LOT
OPEN HOLE		3420.0	8 1/2	3420.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
530	1.03			SEAWATER/PAC	
767	1.03			SEAWATER/PAC	
1050	1.20	17.0		SEAWATER/PAC	
1254	1.14	17.0		QUADRILL	
1450	1.25	16.0		QUADRILL	
2119	1.50	22.0		QUADRILL	
2529	1.67	41.0		QUADRILL	
2557	1.67	47.0		QUADRILL	
3090	1.67	39.0		QUADRILL	
3420	1.67	42.0		QUADRILL	