General information

Wellbore name	25/11-25 A
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	25/11-25
Seismic location	NH9301: inline 1660 & crossline 2020
Production licence	169
Drilling operator	StatoilHydro Petroleum AS
Drill permit	1160-L
Drilling facility	TRANSOCEAN WINNER
Drilling days	25
Entered date	15.02.2008
Completed date	10.03.2008
Release date	10.03.2010
Publication date	10.03.2010
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	26.0
Water depth [m]	125.0
Total depth (MD) [m RKB]	2448.0
Final vertical depth (TVD) [m RKB]	2058.0
Maximum inclination [°]	52.5
Bottom hole temperature [°C]	83
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	59° 8' 48.64'' N
EW degrees	2° 23' 21.12'' E
NS UTM [m]	6556714.79
EW UTM [m]	465056.23
UTM zone	31
NPDID wellbore	5643

Wellbore history

General

Well 25/11-5 S and the geological sidetrack 25/11-25 A are located in a petroleum system just south of the Balder Field and southwest of the Grane Field, on the western margin of the Utsira High. The primary objective of the wells was to prove commercial hydrocarbons in the two independent prospects; M-prospect and Jacob North prospect (1500m apart). In 25/11-25 S the primary objective was to confirm producible oil from Intra Balder Formation Sandstone ("Odin sands"). A secondary objective was to evaluate the shallower Frigg sand and the Hermod Formation sandstones.

The objective of the 25/11-25 A sidetrack was to evaluate the formations within the Jurassic Statfjord Formation.The discovery of a 4 meter oil column in the Statfjord Formation in the recently drilled Jakob Sør prospect by well 25/11-24

necessitated an evaluation of potential Statfjord Formation targets in the area. The Jakob Nord and Jakob Sør prospects were separated by a saddle point coinciding with the oil water contact encountered in well 25/11-24.

Operations and results

Wildcat well 25/11-25 S was spudded with the semi-submersible installation Transocean Winner on 20 January 2008 and drilled to TD at 2142 m in the Paleocene Lista Formation. No shallow gas was observed by the ROV at the wellhead or by the MWD while drilling the 36" hole and the 12 1/4" pilot hole. The well was drilled with seawater down to 1094 m, and with Glydril mud (with ca 4% glycol) from 1094 m to TD.

The well penetrated rocks of Quaternary and Tertiary age. No Frigg sand was encountered and no recordable sand volumes were present in the Sele Formation. The well penetrated the Odin reservoir section at 2045 m, 14.4 m deeper than prognosed. Wire line logs confirmed an oil bearing interval between 2045 m and 2082.5 m proving oil down to the OWC at 2082.5 m (1790m TVD RKB). No shows were observed in the well other than in the oil-bearing Intra Balder Formation sandstone.

The well track was plugged back to 1476 m and permanently abandoned on 15 February 2008 as an oil discovery.

Well 25/11-25 A was sidetracked from 25/11-25 S at 1023 m and drilled to a total depth of 2448 m (2058 m TVD RKB). The well was drilled with Glydril mud (with ca 4% glycol) from kick-off to TD.

The well penetrated rocks of Tertiary, Cretaceous and Jurassic age. TD of the well was set in sandstones and claystones of the Statfjord Formation. The Statfjord Formation in well 25/11-25 A was encountered at 2372 m, 12 m TVD deeper than prognosed. The reservoir was more poorly developed than expected and there were no indications of hydrocarbons. Biostratigraphic results indicated presence of the lowermost part of the Lower Statfjord Formation only. No shows were reported in well 25/11-25 A.

One core was cut in 25/11-25 S in a hydrocarbon bearing interval from 2045 m - 2063 m the Intra Balder Formation sandstone, with 93% recovery. No cores were cut in 25/11-25 A. MDT oil sampling was performed at 2046 m and at 2065 m in 25/11-25 S. In total 175.7 litres were pumped during the sampling run of which 94.9 litres were pumped to the well bore. No fluid sampling was done in 25/11-25 A.

Sidetrack well 25/11-25 A was permanently abandoned on 10 March 2008 as dry well.

Testing

No drill stem test was performed in the wells.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1040.00	2440.00

Cuttings available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1150.0	[m]	DC	FUGRO
1170.0	[m]	DC	FUGRO
1190.0	[m]	DC	FUGRO
1210.0	[m]	DC	FUGRO
1230.0	[m]	DC	FUGRO
1250.0	[m]	DC	FUGRO
1270.0	[m]	DC	FUGRO
1290.0	[m]	DC	FUGRO
1310.0	[m]	DC	FUGRO
1330.0	[m]	DC	FUGRO
1350.0	[m]	DC	FUGRO
1370.0	[m]	DC	FUGRO
1390.0	[m]	DC	FUGRO
1410.0	[m]	DC	FUGRO
1430.0	[m]	DC	FUGRO
1450.0	[m]	DC	FUGRO
1470.0	[m]	DC	FUGRO
1490.0	[m]	DC	FUGRO
1510.0	[m]	DC	FUGRO
1530.0	[m]	DC	FUGRO
1550.0	[m]	DC	FUGRO
1570.0	[m]	DC	FUGRO
1590.0	[m]	DC	FUGRO
1610.0	[m]	DC	FUGRO
1630.0	[m]	DC	FUGRO
1650.0	[m]	DC	FUGRO
1670.0	[m]	DC	FUGRO
1690.0	[m]	DC	FUGRO
1710.0	[m]	DC	FUGRO
1730.0	[m]	DC	FUGRO

1750.0	[m]	DC	FUGRO
1770.0	[m]	DC	FUGRO
1790.0	[m]	DC	FUGRO
1810.0	[m]	DC	FUGRO
1830.0	[m]	DC	FUGRO
1850.0	[m]	DC	FUGRO
1870.0	[m]	DC	FUGRO
1890.0	[m]	DC	FUGRO
1910.0	[m]	DC	FUGRO
1932.0	[m]	DC	FUGRO
1953.0	[m]	DC	FUGRO
1962.0	[m]	DC	FUGRO
1974.0	[m]	DC	FUGRO
1989.0	[m]	DC	FUGRO
1992.0	[m]	DC	FUGRO
2004.0	[m]	DC	FUGRO
2016.0	[m]	DC	FUGRO
2028.0	[m]	DC	FUGRO
2040.0	[m]	DC	FUGRO
2052.0	[m]	DC	FUGRO
2064.0	[m]	DC	FUGRO
2076.0	[m]	DC	FUGRO
2088.0	[m]	DC	FUGRO
2094.0	[m]	DC	FUGRO
2109.0	[m]	DC	FUGRO
2121.0	[m]	DC	FUGRO
2133.0	[m]	DC	FUGRO
2148.0	[m]	DC	FUGRO
2160.0	[m]	DC	FUGRO
2172.0	[m]	DC	FUGRO
2184.0	[m]	DC	FUGRO
2202.0	[m]	DC	FUGRO
2220.0	[m]	DC	FUGRO
2232.0	[m]	DC	FUGRO
2241.0	[m]	DC	FUGRO
2256.0	[m]	DC	FUGRO
2271.0	[m]	DC	FUGRO
2283.0	[m]	DC	FUGRO
2298.0	[m]	DC	FUGRO
2310.0	[m]	DC	FUGRO

2322.0	[m]	DC	FUGRO
2328.0	[m]	DC	FUGRO
2334.0	[m]	DC	FUGRO
2340.0	[m]	DC	FUGRO
2347.0	[m]	DC	FUGRO
2350.0	[m]	DC	FUGRO
2351.0	[m]	DC	FUGRO
2353.0	[m]	DC	FUGRO
2356.0	[m]	DC	FUGRO
2359.0	[m]	DC	FUGRO
2362.0	[m]	DC	FUGRO
2365.0	[m]	DC	FUGRO
2365.0	[m]	DC	FUGRO
2371.0	[m]	DC	FUGRO
2374.0	[m]	DC	FUGRO
2377.0	[m]	DC	FUGRO
2380.0	[m]	DC	FUGRO
2389.0	[m]	DC	FUGRO
2395.0	[m]	DC	FUGRO
2401.0	[m]	DC	FUGRO
2407.0	[m]	DC	FUGRO
2416.0	[m]	DC	FUGRO
2422.0	[m]	DC	FUGRO
2428.0	[m]	DC	FUGRO
2434.0	[m]	DC	FUGRO
2440.0	[m]	DC	FUGRO
2446.0	[m]	DC	FUGRO
2448.0	[m]	DC	FUGRO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
151	NORDLAND GP
666	UTSIRA FM
746	NO FORMAL NAME
814	HORDALAND GP
814	SKADE FM
954	NO FORMAL NAME
1097	NO FORMAL NAME

1103	NO FORMAL NAME
1246	NO FORMAL NAME
1334	NO FORMAL NAME
1637	GRID FM
1665	NO FORMAL NAME
1957	ROGALAND GP
1957	BALDER FM
2063	SELE FM
2074	HERMOD FM
2167	SELE FM
2182	LISTA FM
2190	HEIMDAL FM
2230	LISTA FM
2261	VÅLE FM
2269	SHETLAND GP
2269	TOR FM
2300	HOD FM
2310	CROMER KNOLL GP
2362	VIKING GP
2362	DRAUPNE FM
2372	STATFJORD GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DSI HRLA TLD MCFL 044PUP	1877	2453
MDT GR	2426	2676
MWD - DIR	151	208
MWD - EWR P4 DGR PCDC PWD	1023	2448
MWD - EWR P4 DGR PWD	806	1094
MWD - EWR P4D DGR PWD	208	806
MWD - EWR P4D DGR PWR	208	840

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
LINER	9 5/8	1913.0	12 1/4	1921.0	1.70	LOT
OPEN HOLE		2448.0	8 1/2	2448.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1025	1.27	24.0		Glydril	
1114	1.26	24.0		Glydril	
1197	1.30	26.0		Glydril	
1338	1.39	29.0		Glydril	
1420	1.40	29.0		Glydril	
1618	1.45	26.0		Glydril	
1687	1.45	29.0		Glydril	
1713	1.26	14.0		Glydril	
1921	1.45	30.0		Glydril	
2013	1.26	20.0		Glydril	
2448	1.26	29.0		Glydril	

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]
5643_Formation_pressure_(Formasjonstrykk)	pdf	0.23