General information

Wellbore name	25/10-10
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	25/10-10
Seismic location	XLINE 17319 inline 13196 MC3D-CNS-MEGA
Production licence	028 S
Drilling operator	ExxonMobil Exploration and Production Norway AS
Drill permit	1300-L
Drilling facility	AKER BARENTS
Drilling days	33
Entered date	01.03.2010
Completed date	02.04.2010
Release date	02.04.2012
Publication date	02.04.2012
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	40.0
Water depth [m]	123.5
Total depth (MD) [m RKB]	2513.0
Final vertical depth (TVD) [m RKB]	2513.0
Maximum inclination [°]	1.5
Oldest penetrated age	LATE PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	59° 11' 5.51'' N
EW degrees	2° 17' 50.7'' E
NS UTM [m]	6561000.08
EW UTM [m]	459850.02
UTM zone	31
NPDID wellbore	6345

Wellbore history

General

Well 25/10-10 was drilled just west of the Balder Field complex on the Utsira High in the North Sea. The well was planned to test the hydrocarbon potential of the Balder Triassic prospect with reservoir of Early Triassic age in the Smith Bank Formation as the primary target.

Operations and results

Wildcat well 25/10-10 was spudded with the semi-submersible installation Aker Barents on 1 March 2010 and drilled to TD at 2513 m in the Late Permian Zechstein Group. The well was drilled with a 9 7/8" pilot hole prior to the 17 1/2" from 234 m to 1102 m to check for shallow gas. No shallow gas was seen. The well was drilled with seawater and hi-vis sweeps down to 234 m, with pre-hydrated bentonite/CMC/Seawater from 234 m to 1102 m, and with Glydril mud containing 5.0 - 5.5 % glycol from 1102 m to TD.

The Skade Formation in the Hordaland Group and the Balder Formation in the Rogaland Group was found to be hydrocarbon bearing. The Skade Formation is 11 m thick and has a porosity ranging from 15 to 33% with an average of 17.4%. The net sand and pay interval was 2.3 m, however no shows were recorded here and it was interpreted that these hydrocarbons were severely biodegraded. The more heterogeneous hydrocarbon interval in Balder Sandstone Formation in the Upper Rogaland Group ranged from 12 to 24% with an average of 17.5%. A net pay interval of 1.7 m in a net sand interval of 5.6 m was found.

The Late Cretaceous Tor formation was found directly resting on the Early Jurassic Statfjord Formation at 2072 m. No Middle - Late Jurassic sediments were present in the well. The target Intra Triassic sandstone was encountered 77 m deep to prognosis, at 2432 m. The Intra Triassic sand was 56 m thick with 44 m net pay of 18.2 % porosity. However, the sand was water wet as was all Triassic to Early Jurassic sandstones. Weak oil shows were recorded in the Balder formation from 1767 to 1790 m, in silty sequences in the Statfjord Formation at 2096 to 2119.5 m and 2143.5 to 2199 m, in sandstone at 2290.5 m in the middle of the Skagerrak Formation, and at 2433 m in the top of the primary target Intra Triassic Sandstone.

No cores were cut. The MDT tool was run to acquire pressure points, but no fluid samples were taken.

The well was permanently abandoned on 2 April 2010 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]
1110.00	2513.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
164	NORDLAND GP
575	UTSIRA FM
710	NO FORMAL NAME
777	HORDALAND GP
777	SKADE FM
1127	NO FORMAL NAME
1259	SKADE FM
1270	NO FORMAL NAME
1505	GRID FM
1518	NO FORMAL NAME
1768	ROGALAND GP
1768	BALDER FM
1784	INTRA BALDER FM SS
1793	BALDER FM
1813	SELE FM
1851	LISTA FM
1856	HEIMDAL FM
1913	LISTA FM
1940	HEIMDAL FM
1991	LISTA FM
2036	TY FM
2069	SHETLAND GP
2069	TOR FM
2072	STATFJORD GP
2173	NO GROUP DEFINED
2173	SKAGERRAK FM
2368	SMITH BANK FM
2432	NO FORMAL NAME
2488	ZECHSTEIN GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MDT SP	2073	2496
MSCT	2059	2496
MWD LWD - GR RES DEN NEU SON PWD	1102	2513
MWD LWD - GR RES PWD	234	1102
MWD LWD - PWD DIR	234	1102
PEX HRLA HNGS	2511	2070
VSP	200	2500

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	230.0	36	234.0	0.00	LOT
SURF.COND.	13 3/8	1097.0	17 1/2	1102.0	0.00	LOT
PILOT HOLE		1102.0	9 7/8	1102.0	0.00	LOT
OPEN HOLE		2513.0	12 1/4	3513.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
490	1.43	29.0		Glydril	
812	1.05	25.0		Sweeps	
1142	1.39	9.0		Sweeps	
1729	1.44	18.0		Glydril	
2461	1.43	26.0		Glydril	
2553	1.44	27.0		Glydril	
2553	1.43	26.0		Glydril	