

**General information**

Wellbore name	25/4-10 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	ALVHEIM
Discovery	25/4-10 S
Well name	25/4-10
Seismic location	MN-0504-D003 & MN-0504-D008A
Production licence	203
Drilling operator	Marathon Petroleum Norge AS
Drill permit	1283-L
Drilling facility	TRANSOCEAN WINNER
Drilling days	22
Entered date	20.10.2009
Completed date	10.11.2009
Release date	10.11.2011
Publication date	10.11.2011
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	PALEOCENE
1st level with HC, formation	HERMOD FM
Kelly bushing elevation [m]	26.0
Water depth [m]	123.0
Total depth (MD) [m RKB]	2912.0
Final vertical depth (TVD) [m RKB]	2211.8
Maximum inclination [°]	53.8
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	HEIMDAL FM
Geodetic datum	ED50
NS degrees	59° 30' 51.43" N
EW degrees	2° 0' 13.78" E
NS UTM [m]	6597895.93
EW UTM [m]	443621.94



UTM zone	31
NPDID wellbore	6253

Wellbore history

General

Well 25/4-10 S was drilled in the Vana Sub-basin in the North Sea. The objective was to test the hydrocarbon potential in the Viper prospect, a mapped injection feature of remobilised Hermod sands into overlying Balder Formation sediments, with analogies to the Volund field in the southwest.

Operations and results

Wildcat well 25/4-10 S was spudded with the semi-submersible installation Transocean Winner on 20 October 2009 and drilled to TD at 2912 m (2222 m TVD) in the Paleocene Heimdal Formation. Obstructions in the 17 1/2" section from 197 to 812 m made it difficult to run the 13 3/8" casing, but it was finally cemented in place at 797 m. The well was drilled with seawater and hi-vis pills down to 815 m and with Versatec OBM from 815 m to TD.

A 16.5 m TVD thick Hermod Formation injection sand was encountered at 2671 to 2698 m and was oil bearing with an oil water contact identified at 2682.9 m (2033.1 m TVDSS), 7 m TVD shallower than prognosed. The resulting 7 m TVD hydrocarbon column was insufficient to warrant the planned MDT logging run. Oil shows in the well, if any, were masked by the oil based mud.

No cores were cut and no wire line logs were run in the well. Consequently, no wire line fluid samples were taken.

The well was plugged back for sidetracking on 10 November 2009. It is classified as an oil discovery.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
840.00	2912.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
149	NORDLAND GP



429	UTSIRA FM
706	HORDALAND GP
1331	GRID FM
1527	NO FORMAL NAME
2455	ROGALAND GP
2455	BALDER FM
2656	SELE FM
2671	HERMOD FM
2698	NO FORMAL NAME
2739	LISTA FM
2844	HEIMDAL FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD LWD - NBGR GR ECD DENS CAL..	815	2912
MWD LWD - RES NEU DIR SON	815	2912

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	197.0	36	197.0	0.00	LOT
SURF.COND.	13 3/8	797.0	17 1/2	812.0	0.00	LOT
OPEN HOLE		815.0	12 1/4	815.0	0.00	LOT
OPEN HOLE		2912.0	9 1/2	2912.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
197	1.50			wvjobreportmudchk.com	
812	1.30			wvjobreportmudchk.com	
815	1.35	34.0		wvreportmudchk.com	
1088	1.36	33.0		wvreportmudchk.com	



1841	1.36	30.0		wvjobreportmudch k.com	
2550	1.03			wvjobreportmudch k.com	
2797	1.39	32.0		wvjobreportmudch k.com	
2912	1.39	31.0		wvjobreportmudch k.com	