

**General information**

Wellbore name	24/9-9 B
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	BØYLA
Discovery	24/9-9 S Bøyla
Well name	24/9-9
Seismic location	MN DG 043 & 032 A
Production licence	340
Drilling operator	Marathon Petroleum Norge AS
Drill permit	1284-L
Drilling facility	SONGA DEE
Drilling days	11
Entered date	15.10.2009
Completed date	25.10.2009
Release date	25.10.2011
Publication date	25.10.2011
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	PALEOCENE
1st level with HC, formation	HERMOD FM
Kelly bushing elevation [m]	25.0
Water depth [m]	120.0
Total depth (MD) [m RKB]	3005.0
Final vertical depth (TVD) [m RKB]	2118.0
Maximum inclination [°]	65.2
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	SELE FM
Geodetic datum	ED50
NS degrees	59° 19' 40.49" N
EW degrees	1° 50' 17.27" E
NS UTM [m]	6577295.29
EW UTM [m]	433882.57



UTM zone	31
NPDID wellbore	6254

Wellbore history

General

Well 24/9-9 B was drilled to appraise the oil discovery on the Marihøne A prospect made by 24/9-9 S in the Vana Sub-basin ca 6 km east of the UK border in the North Sea. The objective was to test a low amplitude anomaly area 1.5 km south of 24/9-9 S.

Operations and results

Appraisal well 24/9-9 B was drilled with the semi-submersible installation Songa Dee. It was kicked off from near vertical at 1036 m in well 24/9-9 S on 15 October 2009. The hole angle was built up through the Grid sands and reached 65 deg inclination in the Sele claystones. There were no incidents of well bore instability or any increase in background gas, indicating that the pressure was within prognosis. TD was set at 3005 m in the Paleocene Sele Formation. The well was drilled with Versatec oil based mud from kick-off to TD.

The reservoir sand of the Hermod Formation was encountered at 2925 m (2058.2 m TVD MSL). The Hermod Formation was oil bearing with a 13.2 m TVD oil leg down to an OWC at 2955 m (2071.4 m TVD MSL). Due to a higher shale volume in this segment compared to the two first Marihøne A wells the net pay was only 7.9 m with average porosity of 23% and average Sw of 46%. The gross thickness of the Hermod reservoir in 24/9-9 B was 25 m TVD. The oil based mud used produced a background weak dull yellow direct fluorescence and faint cut fluorescence, which effectively masked any mineral oil show. Additionally the solvent properties of the mud, combined with the structure destroying effect of the PDC bits and the flushing effect due to the overbalanced mud weight may have removed virtually all trace of shows from disaggregated sand grains and minimised or removed shows from sandstone aggregates.

No cores were cut in 24/9-9 B. No wire line logs were run and no fluid samples taken.

The well was permanently abandoned on 25 October 2009 as an oil appraisal well.

Testing

No drill stem test was performed.

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
145	NORDLAND GP
403	UTSIRA FM
934	NO FORMAL NAME
1121	HORDALAND GP
1121	GRID FM



1472	NO FORMAL NAME
2627	ROGALAND GP
2627	BALDER FM
2843	SELE FM
2925	HERMOD FM
2983	SELE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - NBGR GR RES POR DEN PWD DI	1015	3005

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	192.0	36	194.0	0.00	LOT
SURF.COND.	13 3/8	1022.0	17 1/2	1033.0	0.00	LOT
OPEN HOLE		3005.0	9 1/2	3005.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1107	1.35	42.0		wvjobreportmudch k.com	
1690	1.35	37.0		wvjobreportmudch k.com	
2340	1.39	40.0		Raised mudweight from 1.35 sg to	
2973	1.39	41.0		Treated active with Fordacal 100	
3005	1.39	41.0		wvjobreportmudch k.com	