



General information





Wellbore name	6506/6-2
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Well name	6506/6-2
Seismic location	Seismic cube MAE09M1 3D: inline 790-crossline 2555
Production licence	513
Drilling operator	Maersk Oil Norway AS
Drill permit	1410-L
Drilling facility	TRANSOCEAN BARENTS
Drilling days	77
Entered date	11.12.2012
Completed date	25.02.2013
Plugged and abandon date	25.02.2013
Release date	25.02.2015
Publication date	20.05.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	40.0
Water depth [m]	408.0
Total depth (MD) [m RKB]	3366.0
Final vertical depth (TVD) [m RKB]	3365.5
Maximum inclination [°]	1.5
Bottom hole temperature [°C]	106
Oldest penetrated age	EARLY CRETACEOUS
Oldest penetrated formation	LANGE FM
Geodetic datum	ED50
NS degrees	65° 38' 17.77" N
EW degrees	6° 51' 56.5" E
NS UTM [m]	7281441.93
EW UTM [m]	401771.05
UTM zone	32
NPDID wellbore	6960



Wellbore history

General

Well 6506/6-2 was drilled ca ten km north-west of the 6506/6-1 Victoria discovery on the west flank of the Dønna Terrace in the Norwegian Sea. The primary objective was to test the hydrocarbon potential in Early Cretaceous Lysing Formation sandstones in the Albert Prospect.

Operations and results

The original spud location was abandoned after drilling 9 7/8" pilot hole due to technical problems. This pilot is named 6506/6-U-1. Wildcat well 6506/6-2 was re-spudded on 11 December 2012, 30 m SSE of intended location. Semi-submersible installation Transocean Barents drilled a new 9 7/8" pilot hole to 1283 m to check for shallow gas. No shallow gas was seen and drilling commenced to TD at 3366 m in the Early Cretaceous Lange Formation. A total of 37 % of the rig time was counted as NPT. A major contributor to this was problems related to cementing of the 13 3/8" casing shoe. The well was drilled with seawater and hi-vis pills down to 1295 m, with Performadril water based mud from 1295 m to 1627 m, and with XP-07 oil based mud from 1627 m to TD.

The well encountered only one of four prognosed sands in the Lysing formation. The reservoir rocks, thickness and reservoir quality of Lysing 1 was as expected. Gross thickness was 90 met with a net/gross of ca 0.42 with average porosity of 18%. However, the well was dry and all potential oil shows (fluorescence and cut) were believed to be due to the oil based mud.

No cores were cut. MDT water samples were taken in the Lysing Formation at 3076 m and 3079.5 m.

The well was permanently abandoned on 25 February 2013 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]
1310.00	3364.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
449	NORDLAND GP
449	NAUST FM



1428	KAI FM
1701	HORDALAND GP
1701	BRYGGE FM
1791	ROGALAND GP
1791	TARE FM
1883	TANG FM
1892	SHETLAND GP
1892	SPRINGAR FM
2070	NISE FM
2230	KVITNOS FM
3071	CROMER KNOLL GP
3071	LYSING FM
3161	LANGE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MDT	3076	3079
MWD - DIR	448	557
MWD - GR RES DIR	448	1297
MWD - GR RES DIR	557	1295
MWD - GR RES DIR	1288	1624
MWD - GR RES DIR ADN SON	1624	2999
MWD - GR RES DIR ADN SON	2999	3366
USIT CBL GR CCL	446	1614
VSP	0	3356
ZAIP MSIP PEX HNGS	2890	3366

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	554.0	36	556.0	0.00	
SURF.COND.	20	1288.5	26	1295.0	0.00	
INTERM.	13 3/8	1619.0	17 1/2	1627.0	1.75	LOT
INTERM.	9 7/8	2994.0	12 1/4	2999.0	1.89	LOT
LINER	7	3366.0	8 1/2	3366.0	1.97	LOT

**Drilling mud**

Depth MD [m]	Mud weight [g/cm ³]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
990	1.48			WATER BASED MUD	
1250	1.39			WATER BASED MUD	
1345	1.39			WATER BASED MUD	
1572	1.61			Versatec OBM	
1627	1.48			OIL (REGULAR)	
2985	1.56			OIL (REGULAR)	
3366	1.56			OIL (REGULAR)	