General information

Wellbore name	6306/6-2
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	6306/6-2
Seismic location	PER0704-209-SP1253 & PER0704-0408-SP1256 & PER0704-216-SP 1066
Production licence	321 B
Drilling operator	Det norske oljeselskap ASA (old)
Drill permit	1255-L
Drilling facility	AKER BARENTS
Drilling days	89
Entered date	21.08.2009
Completed date	17.11.2009
Release date	18.06.2010
Publication date	23.12.2010
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	40.0
Water depth [m]	224.0
Total depth (MD) [m RKB]	2080.0
Final vertical depth (TVD) [m RKB]	2080.0
Maximum inclination [°]	3
Bottom hole temperature [°C]	74
Oldest penetrated age	PRE-DEVONIAN
Oldest penetrated formation	BASEMENT
Geodetic datum	ED50
NS degrees	63° 41' 4.96'' N
EW degrees	6° 40' 16.22'' E
NS UTM [m]	7064153.55
EW UTM [m]	384823.64
UTM zone	32
NPDID wellbore	6143

Wellbore history

General

Well 6306/6-2 was drilled on the Frøya High in the Norwegian Sea. The objective was to test the hydrocarbon potential of the Geitfjellet prospect, a prospect with reservoir of Latest Jurassic to Earliest Cretaceous age at 1912 m.

Operations and results

Wildcat well 6306/6-2 was spudded with the semi-submersible installation Aker Barents on 21 August 2009 and drilled to TD at 2080 m in crystalline basement. This was the first well drilled by Aker Barents and a high number of unexpected equipment challenges were experienced. A total of 99.8 days was used to drill the well, from arrival on location to last anchor on bolster, compared to the original 45 days AFE. The well was drilled with Seawater/Hi-vis PHB sweeps/CMC down to 791 m and with Glydril mud from 791 to TD.

The target reservoir came in with top Lyr Formation at 1953 m. The underlying unit, expected to be Rogn Formation sandstone, came in at 1963 m and was found to comprise extremely calcite cemented, arkosic sandstone grading to limestone, quite different from the normal Rogn Formation. Below this unit was a 27 m thick limestone unit overlying a 44 m thick conglomerate unit that rests on the basement.

Some weak shows were recorded in the interval 1978 - 1985 m where a trace to fair white blue Fluorescence Residue could be observed. Otherwise, there were no hydrocarbon indications in any section of this well.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 17 November 2009 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]
800.00	2080.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
264	NORDLAND GP
264	NAUST FM
786	MOLO FM

849	HORDALAND GP
849	BRYGGE FM
1123	ROGALAND GP
1123	TARE FM
1223	TANG FM
1430	SHETLAND GP
1430	SPRINGAR FM
1462	NISE FM
1775	KVITNOS FM
1860	CROMER KNOLL GP
1860	LANGE FM
1953	LYR FM
1963	VIKING GP
1963	NO FORMAL NAME
1991	NO FORMAL NAME
2001	NO FORMAL NAME
2028	NO FORMAL NAME
2072	BASEMENT

Geochemical information

Document name	Document format	Document size [MB]
6143_01_6306_6_2_gch_transfer_1	txt	0.00
6143_02_6306_6_2_gch_results_1	txt	0.10

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MCST GR	1907	1988
MCST GR	1910	2072
MWD - ARC & ADN & SONICVISION	1350	1898
MWD - ARCVISION SONICVISION	335	1357
MWD - GEO & ARC & ADN & SONICVIS	1904	2080
VSP GR	694	2070

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	329.0	36	330.0	0.00	LOT
SURF.COND.	20	786.0	26	791.0	1.55	LOT
INTERM.	13 3/8	1351.0	17 1/2	1357.0	1.82	LOT
INTERM.	9 5/8	1904.0	12 1/4	1905.0	1.81	LOT
OPEN HOLE		2080.0	8 1/2	2080.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
428	1.39	10.0		Displacement mud	
791	1.39	14.0		Displacement mud	
1156	1.37	18.0		Glydril System	
1357	1.41	21.0		Glydril System	
1780	0.99			Sea Water	
1780	1.41	22.0		Glydril System	
1905	1.63	32.0		Glydril System	
2004	1.29	13.0		Glydril System	
2080	1.29	17.0		Glydril System	