

**General information**

Wellbore name	6507/3-6
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	6507/3-6
Seismic location	inline 3700 & crossline 2020(DNO07M01)
Production licence	383
Drilling operator	Det norske oljeselskap ASA (old)
Drill permit	1235-L
Drilling facility	BREDFORD DOLPHIN
Drilling days	26
Entered date	29.05.2009
Completed date	23.06.2009
Release date	23.06.2011
Publication date	23.06.2011
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	377.0
Total depth (MD) [m RKB]	1650.0
Final vertical depth (TVD) [m RKB]	1650.0
Maximum inclination [°]	0.6
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	ÅRE FM
Geodetic datum	ED50
NS degrees	65° 47' 47.37" N
EW degrees	7° 55' 16.5" E
NS UTM [m]	7297834.85
EW UTM [m]	450648.81
UTM zone	32
NPDID wellbore	6073



Wellbore history

General

Well 6507/3-6 was drilled on the Sør High, east of the Dønna Terrace in the Norwegian Sea. The primary objective was to test the hydrocarbon potential of the Fangst and Båt group reservoirs. Garn Formation, if present, was expected to be 10 thick. The Ile Formation reservoir would most likely be present, with a thickness of about 15 meters. The Tilje Formation was expected to make up the majority of the reservoir thickness and volume. The well was planned to be drilled down into the Åre Formation of early Jurassic age.

Operations and results

Wildcat well 6507/3-6 was spudded with the semi-submersible installation Bredford Dolphin on 23 June 2009 and drilled to TD at 1650 m in the Early Jurassic Åre Formation. The well was drilled with spud mud down to 459 m, with KCl/GEM water based mud from 459 m to 612 m, and with Performadril mud from 612 m to TD.

Good reservoir sandstones were proven both in the Garn, Ile and Tilje formations. As expected, the Garn and Ile formations were relatively thin, 6 and 15.5 m, respectively, but with high N/G and porosities well above 30 %. The main reservoir of the Tilje and Åre formation, was 164.5m thick and also contained sandstones with high N/G and good reservoir properties.

All reservoir sandstones were proven water filled and no shows were observed.

After reaching TD, VSP logging and MSCT sampling was performed. No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 23 June 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]
620.00	1651.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
402	NORDLAND GP
402	NAUST FM
1083	KAI FM



1291	FANGST GP
1291	GARN FM
1297	NOT FM
1304	ILE FM
1319	BÅT GP
1319	ROR FM
1360	TILJE FM
1422	ÅRE FM

Composite logs

Document name	Document format	Document size [MB]
6073	pdf	0.22

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MSCT	1227	1637
MWD LWD - DIR	402	460
MWD LWD - DIR DGR EWR PWD	460	1211
MWD LWD - DIR DGR EWR PWD BAT CT	1211	1650
VSP	403	1650

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	456.0	36	459.0	0.00	LOT
SURF.COND.	20	610.6	26	612.5	1.40	LOT
INTERM.	9 5/8	1205.0	12 1/4	1212.0	1.74	LOT
OPEN HOLE		1650.0	8 1/2	1650.0	0.00	LOT

Drilling mud





Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
459	1.38	30.0		KCl/Gem	
496	1.38	33.0		KCl/Gem	
612	1.14	31.0		Performadril	
612	1.32	28.0		KCl/Gem	
628	1.14	32.0		Performadril	
673	1.20	40.0		Performadril	
1110	1.26	40.0		PERFORMATROL low sulphate	
1211	1.26	60.0		Performadril	
1211	1.26	55.0		Performadril	
1343	1.25	64.0		PERFORMATROL low sulphate	
1650	1.25	50.0		PERFORMADRIL low sulphate	