General information

Wellbore name	6407/8-7 A
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	6407/8-7
Seismic location	ST10021Z14 inline 1617 & xline 1871
Production licence	348 C
Drilling operator	Statoil Petroleum AS
Drill permit	1581-L
Drilling facility	TRANSOCEAN SPITSBERGEN
Drilling days	8
Entered date	13.05.2015
Completed date	23.05.2015
Release date	23.05.2017
Publication date	23.05.2017
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	40.0
Water depth [m]	259.0
Total depth (MD) [m RKB]	3178.0
Final vertical depth (TVD) [m RKB]	2810.0
Maximum inclination [°]	38.2
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	ÅRE FM
Geodetic datum	ED50
NS degrees	64° 23' 4.27'' N
EW degrees	7° 33' 42.94'' E
NS UTM [m]	7140825.54
EW UTM [m]	430630.00
UTM zone	32
NPDID wellbore	7707

Wellbore history

General

Well 6407/8-7 and its sidetrack 6407/8-7 A were drilled to test the Bister prospect about four kilometres north of the Hyme field in the southern part of the Norwegian Sea and 140 kilometres north of Kristiansund. The main objective for the sidetrack 6407/8-7 A was to test the presence of commercial accumulations in the Tilje Formation higher up on the structure.

Operations and results

Wildcat well 6407/8-7 A was kicked off from the main well at 1064 m on 13 May 2015. It was drilled with the semi-submersible installation Transocean Spitsbergen to TD at 3178 m (2810 m TVD) m in Triassic sediments belonging to the Åre Formation. No significant problem was encountered in the operations. The well was drilled with EMS-4400 oil based mud from kick-off to TD.

The well penetrated a ca 110 m thick Tilje formation, of which 80 m was sandstone of good reservoir quality. The well also penetrated 200 m of the Åre formation, of which 95 m was sandstone with good reservoir properties. The well is dry. Some shows were observed on cuttings in both the main well and the sidetrack. However, when using OBM most HC's will be washed out and/or masked by the oil base in the mud. Preliminary post well analysis confirms that the shows observed on cuttings were from the OBM and not formation.

No cores were cut. No fluid sample was taken.

The well was permanently abandoned on 23 May 2015 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]
1080.00	3178.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
299	NORDLAND GP
451	NAUST FM
963	KAI FM
1017	HORDALAND GP

1017	BRYGGE FM
1745	ROGALAND GP
1745	TARE FM
1910	TANG FM
2041	SHETLAND GP
2041	SPRINGAR FM
2075	NISE FM
2237	CROMER KNOLL GP
2237	KVITNOS FM
2540	LANGE FM
2786	BÅT GP
2786	TILJE FM
2927	ÅRE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - GVR ECO SON VIS	2696	3178
MWD - PD ARC SADN	1060	2696

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	350.0	36	352.0	0.00	
INTERM.	13 3/8	1045.0	17 1/2	1055.0	0.00	
		1058.0		1058.0	1.54	FIT
LINER	9 5/8	2695.0	12 1/4	2696.0	0.00	
		2699.0		2699.0	1.60	FIT
OPEN HOLE		3178.0	8 1/2	3178.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1058	1.43	21.0		EMS 4400	
1145	1.43	20.0		EMS 4400	
1412	1.43	23.0		EMS 4400	

2040	1.47	23.0		EMS 4400	
2365	1.47	23.0		EMS 4400	
2680	1.47	24.0		EMS 4400	
2755	1.30	16.0		EMS 4400	
3178	1.31	24.0		EMS 4400	