

**General information**

Wellbore name	6407/8-7
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 & crossline 1871
Production licence	348 C
Drilling operator	Statoil Petroleum AS
Drill permit	1576-L
Drilling facility	TRANSOCEAN SPITSBERGEN
Drilling days	16
Entered date	27.04.2015
Completed date	12.05.2015
Release date	12.05.2017
Publication date	12.05.2017
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]	3030.0
Final vertical depth (TVD) [m RKB]	3030.0
Maximum inclination [°]	0.9
Oldest penetrated age	EARLY JURASSIC
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	7684

**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 objective of the main wellbore 6407/8-7 was to test the hydrocarbon potential in the Ile Formation. The secondary objective was to test the potential in the Tilje and Åre Formations.

Operations and results

Wildcat well 6407/8-7 was spudded with the semi-submersible installation Transocean Spitsbergen on 12 May 2015 and drilled to TD at 3030 m in the Early Jurassic Åre Formation. No significant problem was encountered in the operations. The well was drilled with seawater and polymer based hi-vis sweeps down to 1055 m, and with EMS-4400 oil based mud from 1055 m to TD. Due to corals in the area, environmental restrictions allowed no solids in the mud.

The well encountered about 95 m of the Ile formation, of which 70 m were sandstone with good reservoir properties. The Tilje and Åre formations were also encountered, in thicknesses of 200 m and 170 m respectively, of which 160 m and 75 m respectively are sandstone with good reservoir quality. 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. Formation pressure were measured with the stethoscope tool during wipertrip, post drilling. The valid pressures plot on two water gradients: one through Ile and Tofte, and a second with ca 2 bar higher pressure through the Tilje Formation.

The well was plugged back for sidetracking on 12 May 2015. It is classified 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]
1060.00	3030.00

Cuttings available for sampling?	YES
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Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1300.0	[m]	DC	APT



1320.0	[m]	DC	APT
1360.0	[m]	DC	APT
1380.0	[m]	DC	APT
1420.0	[m]	DC	APT
1440.0	[m]	DC	APT
1460.0	[m]	DC	APT
1480.0	[m]	DC	APT
1500.0	[m]	DC	APT
1520.0	[m]	DC	APT
1540.0	[m]	DC	APT
1560.0	[m]	DC	APT
1580.0	[m]	DC	APT
1600.0	[m]	DC	APT
1620.0	[m]	DC	APT
1640.0	[m]	DC	APT
1700.0	[m]	DC	APT
1720.0	[m]	DC	APT
1740.0	[m]	DC	APT
1760.0	[m]	DC	APT
1780.0	[m]	DC	APT
1800.0	[m]	DC	APT
1820.0	[m]	DC	APT
1840.0	[m]	DC	APT
1860.0	[m]	DC	APT
1880.0	[m]	DC	APT
1900.0	[m]	DC	APT
1920.0	[m]	DC	APT
1940.0	[m]	DC	APT
1960.0	[m]	DC	APT
1980.0	[m]	DC	APT
2000.0	[m]	DC	APT
2020.0	[m]	DC	APT
2040.0	[m]	DC	APT
2060.0	[m]	DC	APT
2080.0	[m]	DC	APT
2100.0	[m]	DC	APT
2120.0	[m]	DC	APT
2140.0	[m]	DC	APT
2160.0	[m]	DC	APT
2180.0	[m]	DC	APT



2200.0	[m]	DC	APT
2220.0	[m]	DC	APT
2240.0	[m]	DC	APT
2260.0	[m]	DC	APT
2280.0	[m]	DC	APT
2300.0	[m]	DC	APT
2320.0	[m]	DC	APT
2340.0	[m]	DC	APT
2360.0	[m]	DC	APT
2380.0	[m]	DC	APT
2386.0	[m]	DC	APT
2392.0	[m]	DC	APT
2398.0	[m]	DC	APT
2407.0	[m]	DC	APT
2413.0	[m]	DC	APT
2419.0	[m]	DC	APT
2425.0	[m]	DC	APT
2434.0	[m]	DC	APT
2440.0	[m]	DC	APT
2446.0	[m]	DC	APT
2452.0	[m]	DC	APT
2455.0	[m]	DC	APT
2458.0	[m]	DC	APT
2461.0	[m]	DC	APT
2464.0	[m]	DC	APT
2467.0	[m]	DC	APT
2470.0	[m]	DC	APT
2473.0	[m]	DC	APT
2476.0	[m]	DC	APT
2479.0	[m]	DC	APT
2482.0	[m]	DC	APT
2485.0	[m]	DC	APT
2488.0	[m]	DC	APT
2491.0	[m]	DC	APT
2494.0	[m]	DC	APT
2497.0	[m]	DC	APT
2500.0	[m]	DC	APT
2503.0	[m]	DC	APT
2506.0	[m]	DC	APT
2509.0	[m]	DC	APT



2512.0	[m]	DC	APT
2515.0	[m]	DC	APT
2518.0	[m]	DC	APT
2521.0	[m]	DC	APT
2524.0	[m]	DC	APT
2527.0	[m]	DC	APT
2530.0	[m]	DC	APT
2533.0	[m]	DC	APT
2536.0	[m]	DC	APT
2539.0	[m]	DC	APT
2542.0	[m]	DC	APT
2545.0	[m]	DC	APT
2548.0	[m]	DC	APT
2551.0	[m]	DC	APT
2554.0	[m]	DC	APT
2557.0	[m]	DC	APT
2560.0	[m]	DC	APT
2563.0	[m]	DC	APT
2566.0	[m]	DC	APT
2569.0	[m]	DC	APT
2572.0	[m]	DC	APT
2575.0	[m]	DC	APT
2578.0	[m]	DC	APT
2581.0	[m]	DC	APT
2584.0	[m]	DC	APT
2587.0	[m]	DC	APT
2590.0	[m]	DC	APT
2593.0	[m]	DC	APT
2596.0	[m]	DC	APT
2599.0	[m]	DC	APT
2602.0	[m]	DC	APT
2605.0	[m]	DC	APT
2608.0	[m]	DC	APT
2611.0	[m]	DC	APT
2614.0	[m]	DC	APT
2617.0	[m]	DC	APT
2620.0	[m]	DC	APT
2623.0	[m]	DC	APT
2626.0	[m]	DC	APT
2629.0	[m]	DC	APT



2632.0	[m]	DC	APT
2635.0	[m]	DC	APT
2638.0	[m]	DC	APT
2641.0	[m]	DC	APT
2644.0	[m]	DC	APT
2647.0	[m]	DC	APT
2650.0	[m]	DC	APT
2653.0	[m]	DC	APT
2656.0	[m]	DC	APT
2659.0	[m]	DC	APT
2662.0	[m]	DC	APT
2665.0	[m]	DC	APT
2668.0	[m]	DC	APT
2671.0	[m]	DC	APT
2674.0	[m]	DC	APT
2677.0	[m]	DC	APT
2680.0	[m]	DC	APT
2683.0	[m]	DC	APT
2686.0	[m]	DC	APT
2689.0	[m]	DC	APT
2692.0	[m]	DC	APT
2695.0	[m]	DC	APT
2698.0	[m]	DC	APT
2701.0	[m]	DC	APT
2704.0	[m]	DC	APT
2707.0	[m]	DC	APT
2710.0	[m]	DC	APT
2713.0	[m]	DC	APT
2716.0	[m]	DC	APT
2719.0	[m]	DC	APT
2722.0	[m]	DC	APT
2722.0	[m]	DC	APT
2728.0	[m]	DC	APT
2731.0	[m]	DC	APT
2734.0	[m]	DC	APT
2737.0	[m]	DC	APT
2740.0	[m]	DC	APT
2743.0	[m]	DC	APT
2746.0	[m]	DC	APT
2749.0	[m]	DC	APT



2752.0	[m]	DC	APT
2755.0	[m]	DC	APT
2758.0	[m]	DC	APT
2761.0	[m]	DC	APT
2764.0	[m]	DC	APT
2767.0	[m]	DC	APT
2770.0	[m]	DC	APT
2773.0	[m]	DC	APT
2776.0	[m]	DC	APT
2779.0	[m]	DC	APT
2782.0	[m]	DC	APT
2785.0	[m]	DC	APT
2788.0	[m]	DC	APT
2791.0	[m]	DC	APT
2794.0	[m]	DC	APT
2797.0	[m]	DC	APT
2800.0	[m]	DC	APT
2809.0	[m]	DC	APT
2818.0	[m]	DC	APT
2827.0	[m]	DC	APT
2836.0	[m]	DC	APT
2845.0	[m]	DC	APT
2854.0	[m]	DC	APT
2863.0	[m]	DC	APT
2872.0	[m]	DC	APT
2881.0	[m]	DC	APT
2890.0	[m]	DC	APT
2899.0	[m]	DC	APT
2908.0	[m]	DC	APT
2917.0	[m]	DC	APT
2926.0	[m]	DC	APT
2935.0	[m]	DC	APT
2944.0	[m]	DC	APT
2953.0	[m]	DC	APT
2962.0	[m]	DC	APT
2971.0	[m]	DC	APT
2980.0	[m]	DC	APT
2989.0	[m]	DC	APT
2997.0	[m]	DC	APT

**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
299	NORDLAND GP
451	NAUST FM
963	KAI FM
1017	HORDALAND GP
1017	BRYGGE FM
1670	ROGALAND GP
1670	TARE FM
1740	TANG FM
1891	SHETLAND GP
1891	SPRINGAR FM
1930	NISE FM
2044	KVITNOS FM
2267	CROMER KNOLL GP
2267	LANGE FM
2412	VIKING GP
2412	SPEKK FM
2417	FANGST GP
2417	NOT FM
2448	ILE FM
2540	BÅT GP
2540	ROR FM
2575	TOFTE FM
2600	ROR FM
2629	TILJE FM
2830	ÅRE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT MSIP PPC TLD HNGS GR	307	1353
AIT MSIP PPC TLD HNGS GR	1055	1464
MDT GR	1055	1353
MSIP GR	1055	1463
MWD - GR RES	352	1055
MWD - GR RES DEN NEU CALI	1055	3030



MWD - GR RES FPWD SON	1055	3030
MWD - MSIP TLD HNGS GR	1055	1353
TLC MDT PPC GR	1055	1502

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
OPEN HOLE		3030.0	12 1/4	3030.0	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	
1193	1.32	18.0		EMS 4400	
1412	1.43	23.0		EMS 4400	
1903	1.33	18.0		EMS 4400	
2539	1.33	15.0		EMS 4400	
2893	1.33	16.0		EMS 4400	
3030	1.39	17.0		EMS 4400	