

**General information**

Wellbore name	7325/1-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	BARENTS SEA
Discovery	7325/1-1 (Atlantis)
Well name	7325/1-1
Seismic location	3D survey MC3D-HFC09-inline 2215 & xline 8697
Production licence	615
Drilling operator	Statoil Petroleum AS
Drill permit	1526-L
Drilling facility	TRANSOCEAN SPITSBERGEN
Drilling days	29
Entered date	23.06.2014
Completed date	21.07.2014
Release date	21.07.2016
Publication date	21.07.2016
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS
Discovery wellbore	YES
1st level with HC, age	LATE TRIASSIC
1st level with HC, formation	SNADD FM
Kelly bushing elevation [m]	40.0
Water depth [m]	447.0
Total depth (MD) [m RKB]	2865.0
Final vertical depth (TVD) [m RKB]	2865.0
Maximum inclination [°]	2.7
Bottom hole temperature [°C]	110
Oldest penetrated age	EARLY TRIASSIC
Oldest penetrated formation	HAVERT FM
Geodetic datum	ED50
NS degrees	73° 54' 48.7" N
EW degrees	25° 7' 0.17" E
NS UTM [m]	8203538.99



EW UTM [m]	441758.31
UTM zone	35
NPDID wellbore	7501

Wellbore history

General

Well 7325/1-1 was drilled to test the Atlantis prospect on the western flank of the Hoop Fault Complex in the Barents Sea. The clinoforms of the Upper Kobbe Formation were the main target. Secondary targets included Carnian fluvial/estuarine channel sandstones within the Snadd Formation, possible sand development in the middle/lower part of the Kobbe Formation and shallow marine sandstone in the uppermost Klappmyss Formation

Operations and results

The top interval of the well was drilled according to plan with good parameters, but at 695 m bit, stalling occurred causing no further progress with drilling. The well was given the name 7325/1-U-1 and the well was respudded.

Wildcat well 7325/1-1 was spudded with the semi-submersible installation Transocean Spitsbergen on 23 June 2014 and drilled to TD at 2865 m in the Early Triassic Havert Formation. No significant problem was encountered in the operations. The well was drilled with seawater and sweeps down to 835 m, with KCl/polymer/GEM mud from 835 m to 1696 m, and with Low sulphate KCl/polymer/GEM mud from 1696 m to TD.

Well 7325/1-1 encountered about 55 metres net of reservoir rocks in the Snadd Formation, of which ten metres were gas-filled between 1547.5 and 1560.5 m. Based on the well logs the presence of live HC in several other sand layers in Snadd, Kobbe and Havert formations cannot be ruled out. Poor reservoir properties prevented establishment of pressure gradients and true hydrocarbon/water contacts. Sandstone was not proven in the Klappmyss Formation; however, about ten metres gross of poor quality sandstone was proven in the Early Triassic Havert Formation.

The Stø/Fruholmen formations had oil shows (fluorescence and cut) at 891 - 906 m (Stø/Fruholmen), while the Snadd Formation had oil shows in numerous sandy intervals between 990 and 1580 m.

No coring was performed due to uncertainties around the presence of hydrocarbons while drilling. MDT fluid samples were taken at 904 m (water) and 1555.3 m (gas).

The well was permanently abandoned on 21 July as a technical gas discovery

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
840.00	2865.00



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

Sample depth	Depth unit	Sample type	Laboratory
840.0	[m]	DC	ROBERTSO
846.0	[m]	DC	ROBERT
847.0	[m]	SWC	ROBERT
852.0	[m]	DC	ROBERT
854.0	[m]	SWC	ROBERT
858.0	[m]	DC	ROBERT
864.0	[m]	DC	ROBERT
870.0	[m]	DC	ROBERT
876.0	[m]	DC	ROBERT
876.0	[m]	SWC	ROBERT
882.0	[m]	DC	ROBERT
888.0	[m]	DC	ROBERT
894.0	[m]	DC	ROBERT
900.0	[m]	DC	ROBERT
903.5	[m]	SWC	ROBERT
906.0	[m]	DC	ROBERT
912.0	[m]	DC	ROBERT
918.0	[m]	DC	ROBERT
924.0	[m]	DC	ROBERT
930.0	[m]	DC	ROBERT
947.0	[m]	SWC	ROBERT
950.0	[m]	DC	ROBERT
970.0	[m]	DC	ROBERT
990.0	[m]	DC	ROBERT
1010.0	[m]	DC	ROBERT
1030.0	[m]	DC	ROBERT
1050.0	[m]	DC	ROBERT
1070.0	[m]	DC	ROBERT
1090.0	[m]	DC	ROBERT
1110.0	[m]	DC	ROBERT
1130.0	[m]	DC	ROBERT
1150.0	[m]	DC	ROBERT
1170.0	[m]	DC	ROBERT
1190.0	[m]	DC	ROBERT
1210.0	[m]	DC	ROBERT



1230.0	[m]	DC	ROBERT
1249.0	[m]	SWC	ROBERT
1250.0	[m]	DC	ROBERT
1270.0	[m]	DC	ROBERT
1290.0	[m]	DC	ROBERT
1310.0	[m]	DC	ROBERT
1330.0	[m]	DC	ROBERT
1350.0	[m]	DC	ROBERT
1370.0	[m]	DC	ROBERT
1390.0	[m]	DC	ROBERT
1410.0	[m]	DC	ROBERT
1430.0	[m]	DC	ROBERT
1450.0	[m]	DC	ROBERT
1470.0	[m]	DC	ROBERT
1490.0	[m]	DC	ROBERT
1510.0	[m]	DC	ROBERT
1530.0	[m]	DC	ROBERT
1550.0	[m]	DC	ROBERT
1565.0	[m]	DC	ROBERT
1580.0	[m]	DC	ROBERT
1584.5	[m]	SWC	ROBERT
1600.0	[m]	DC	ROBERT
1620.0	[m]	DC	ROBERT
1640.0	[m]	DC	ROBERT
1652.0	[m]	SWC	ROBERT
1660.0	[m]	DC	ROBERT
1680.0	[m]	DC	ROBERT
1696.0	[m]	DC	ROBERT
1717.0	[m]	DC	ROBERT
1726.0	[m]	DC	ROBERT
1747.0	[m]	DC	ROBERT
1756.0	[m]	DC	ROBERT
1765.0	[m]	DC	ROBERT
1786.0	[m]	DC	ROBERT
1791.0	[m]	SWC	ROBERT
1795.0	[m]	DC	ROBERT
1810.0	[m]	DC	ROBERT
1843.0	[m]	DC	ROBERT
1855.0	[m]	DC	ROBERT
1864.0	[m]	DC	ROBERT



1872.0	[m]	SWC	ROBERT
1873.0	[m]	DC	ROBERT
1900.0	[m]	DC	ROBERT
1918.0	[m]	DC	ROBERT
1927.0	[m]	DC	ROBERT
1945.0	[m]	DC	ROBERT
1946.0	[m]	SWC	ROBERT
1966.0	[m]	DC	ROBERT
1975.0	[m]	DC	ROBERT
1996.0	[m]	DC	ROBERT
2005.0	[m]	DC	ROBERT
2023.0	[m]	DC	ROBERT
2044.0	[m]	DC	ROBERT
2050.0	[m]	DC	ROBERT
2050.0	[m]	SWC	ROBERT
2068.0	[m]	DC	ROBERT
2080.0	[m]	DC	ROBERT
2124.1	[m]	SWC	ROBERT
2225.8	[m]	SWC	ROBERT
2250.0	[m]	DC	ROBERT
2267.8	[m]	SWC	ROBERT
2300.0	[m]	DC	ROBERT
2315.4	[m]	SWC	ROBERT
2328.0	[m]	DC	ROBERT
2343.0	[m]	DC	ROBERT
2348.7	[m]	SWC	ROBERT
2370.0	[m]	DC	ROBERT
2400.0	[m]	DC	ROBERT
2415.0	[m]	DC	ROBERT
2427.0	[m]	SWC	ROBERT
2439.0	[m]	DC	ROBERT
2454.0	[m]	DC	ROBERT
2496.0	[m]	DC	ROBERT
2512.5	[m]	SWC	ROBERT
2553.0	[m]	DC	ROBERT
2560.0	[m]	SWC	ROBERT
2577.0	[m]	DC	ROBERT
2670.0	[m]	DC	ROBERT
2674.7	[m]	SWC	ROBERT
2725.5	[m]	SWC	ROBERT



2740.0	[m]	DC	ROBERT
2759.1	[m]	SWC	ROBERT
2759.1	[m]	SWC	ROBERT
2760.0	[m]	DC	ROBERT
2760.0	[m]	DC	ROBERT
2767.0	[m]	SWC	ROBERT
2767.0	[m]	SWC	ROBERT
2770.0	[m]	DC	ROBERT
2790.0	[m]	DC	ROBERT
2800.0	[m]	DC	ROBERT
2860.0	[m]	DC	ROBERT

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
487	NORDLAND GP
487	UNDIFFERENTIATED
529	ADVENTDALEN GP
529	KOLMULE FM
674	KOLJE FM
761	KNURR FM
776	HEKKINGEN FM
779	FUGLEN FM
876	KAPP TOSCANA GP
876	STØ FM
905	FRUHOLMEN FM
952	SNADD FM
1888	SASSENDALEN GP
1888	KOBBE FM
2430	KLAPPMYSS FM
2758	HAVERT FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMI GR	824	1694
FMIHD PPC MSIP PPC GR	1565	2853
HRLA PEX ECSGR	1515	2864



MDT GR	891	1695
MDT GR	1890	2817
MSCT GR	847	1652
MSCT GR	848	1652
MSCT GR	1791	2850
MWD - ARC TELE	539	835
MWD - ARC TELE PD	1696	2865
RT HRLA SON PEX ECS GR	505	1695
USIT CBL GR	512	755
USIT CBL GR	855	1685
VSP GR	553	2855

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	537.6	36	539.0	0.00	
INTERM.	13 3/8	825.0	17 1/2	835.0	0.00	
LINER	9 5/8	1690.0	12 1/4	1696.0	0.00	
OPEN HOLE		2865.0	8 1/2	2865.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
541	1.60	8.0		Spud Mud	
714	1.14	9.0		KCl/Polymer/GEM	
840	1.12	17.0		KCl/Polymer/GEM	
1533	1.13	24.0		KCl/Polymer/Glycol	
1696	1.12	21.0		KCl/Polymer/GEM	
1797	1.15	19.0		Low Sulphate/KCl/Poly mer/Glycol	
2106	1.16	26.0		Low Sulphate/KCl/Poly mer/Glycol	
2261	1.16	23.0		Low Sulphate/KCl/Poly mer/Glycol	
2865	1.16	21.0		Low Sulphate/KCl/Poly mer/Glycol	

