

**General information**

Wellbore name	16/7-11
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	16/7-11
Seismic location	ST09M13 inline 4400 & xline 3166
Production licence	072 F
Drilling operator	Statoil Petroleum AS
Drill permit	1567-L
Drilling facility	SONGA TRYM
Drilling days	24
Entered date	12.08.2015
Completed date	04.09.2015
Release date	04.09.2017
Publication date	04.09.2017
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	80.5
Total depth (MD) [m RKB]	2650.0
Final vertical depth (TVD) [m RKB]	2650.0
Maximum inclination [°]	1.9
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	58° 22' 52.95" N
EW degrees	2° 4' 5.04" E
NS UTM [m]	6471696.43
EW UTM [m]	445499.44
UTM zone	31
NPDID wellbore	7750



Wellbore history

General

Well 16/7-11 was drilled to test the Knappen prospect on the Sleipner Terrace in the North Sea. The primary objective was to test the hydrocarbon potential in the Skagerrak Formation.

Operations and results

Wildcat well 16/7-11 was spudded with the semi-submersible installation Songa Trym on 12 August 2015 and drilled to TD at 2650 m in the Early Triassic Skagerrak Formation. No significant problem was encountered in the operations but shallow gas was observed at 613 and 630 m. The well was drilled with Spud mud down to 575 m, with Glydril mud from 575 to 1560 m and with EMS-4400 oil based mud from 1560 m to TD.

Top Skagerrak Formation was encountered at 2546 m. The Skagerrak Formation reservoir was found to be dry based on logs, gas response, and lack of hydrocarbon shows in cuttings.

No cores were cut. No logs were run on wire line. No fluid sample was taken.

During the plug and abandon, gas bubbles were observed migrating from the wellhead after pulling out the BOP.

This gas was suspected to come from the shallow gas zone at 630m MD. Total time spent for P&A operations including sealing off the gas leak was 8.4 days.

The well was permanently abandoned on 4 September 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]
580.00	2650.80

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

Sample depth	Depth unit	Sample type	Laboratory
580.0	[m]	DC	ROBERTSO
600.0	[m]	DC	ROBERT
620.0	[m]	DC	ROBERT
640.0	[m]	DC	ROBERT
660.0	[m]	DC	ROBERT



680.0 [m]	DC	ROBERT
700.0 [m]	DC	ROBERT
720.0 [m]	DC	ROBERT
740.0 [m]	DC	ROBERT
760.0 [m]	DC	ROBERT
780.0 [m]	DC	ROBERT
800.0 [m]	DC	ROBERT
820.0 [m]	DC	ROBERT
840.0 [m]	DC	ROBERT
860.0 [m]	DC	ROBERT
880.0 [m]	DC	ROBERT
900.0 [m]	DC	ROBERT
920.0 [m]	DC	ROBERT
940.0 [m]	DC	ROBERT
960.0 [m]	DC	ROBERT
1000.0 [m]	DC	ROBERT
1020.0 [m]	DC	ROBERT
1040.0 [m]	DC	ROBERT
1060.0 [m]	DC	ROBERT
1080.0 [m]	DC	ROBERT
1100.0 [m]	DC	ROBERT
1120.0 [m]	DC	ROBERT
1140.0 [m]	DC	ROBERT
1160.0 [m]	DC	ROBERT
1180.0 [m]	DC	ROBERT
1200.0 [m]	DC	ROBERT
1220.0 [m]	DC	ROBERT
1240.0 [m]	DC	ROBERT
1260.0 [m]	DC	ROBERT
1280.0 [m]	DC	ROBERT
1300.0 [m]	DC	ROBERT
1320.0 [m]	DC	ROBERT
1340.0 [m]	DC	ROBERT
1360.0 [m]	DC	ROBERT
1380.0 [m]	DC	ROBERT
1400.0 [m]	DC	ROBERT
1420.0 [m]	DC	ROBERT
1440.0 [m]	DC	ROBERT
1460.0 [m]	DC	ROBERT
1480.0 [m]	DC	ROBERT



1500.0	[m]	DC	ROBERT
1520.0	[m]	DC	ROBERT
1540.0	[m]	DC	ROBERT
1560.0	[m]	DC	ROBERT
1580.0	[m]	DC	ROBERT
1600.0	[m]	DC	ROBERT
1620.0	[m]	DC	ROBERT
1640.0	[m]	DC	ROBERT
1660.0	[m]	DC	ROBERT
1680.0	[m]	DC	ROBERT
1700.0	[m]	DC	ROBERT
1720.0	[m]	DC	ROBERT
1740.0	[m]	DC	ROBERT
1760.0	[m]	DC	ROBERT
1780.0	[m]	DC	ROBERT
1800.0	[m]	DC	ROBERT
1820.0	[m]	DC	ROBERT
1840.0	[m]	DC	ROBERT
1860.0	[m]	DC	ROBERT
1880.0	[m]	DC	ROBERT
1900.0	[m]	DC	ROBERT
1920.0	[m]	DC	ROBERT
1940.0	[m]	DC	ROBERT
1960.0	[m]	DC	ROBERT
1980.0	[m]	DC	ROBERT
2000.0	[m]	DC	ROBERT
2020.0	[m]	DC	ROBERT
2040.0	[m]	DC	ROBERT
2060.0	[m]	DC	ROBERT
2080.0	[m]	DC	ROBERT
2100.0	[m]	DC	ROBERT
2120.0	[m]	DC	ROBERT
2140.0	[m]	DC	ROBERT
2160.0	[m]	DC	ROBERT
2180.0	[m]	DC	ROBERT
2200.0	[m]	DC	ROBERT
2220.0	[m]	DC	ROBERT
2240.0	[m]	DC	ROBERT
2260.0	[m]	DC	ROBERT
2280.0	[m]	DC	ROBERT



2300.0	[m]	DC	ROBERT
2320.0	[m]	DC	ROBERT
2340.0	[m]	DC	ROBERT
2360.0	[m]	DC	ROBERT
2380.0	[m]	DC	ROBERT
2400.0	[m]	DC	ROBERT
2420.0	[m]	DC	ROBERT
2480.0	[m]	DC	ROBERT
2486.0	[m]	DC	ROBERT
2492.0	[m]	DC	ROBERT
2498.0	[m]	DC	ROBERT
2510.0	[m]	DC	ROBERT
2516.0	[m]	DC	ROBERT
2522.0	[m]	DC	ROBERT

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
106	NORDLAND GP
106	UNDIFFERENTIATED
873	UTSIRA FM
999	NO FORMAL NAME
1102	NO FORMAL NAME
1255	HORDALAND GP
1255	UNDIFFERENTIATED
2098	ROGALAND GP
2098	BALDER FM
2148	SELE FM
2189	LISTA FM
2332	VÅLE FM
2344	SHETLAND GP
2344	EKOFISK FM
2366	TOR FM
2465	HOD FM
2533	CROMER KNOLL GP
2533	RØDBY FM
2546	HEGRE GP
2546	SKAGERRAK FM

**Logs**

Log type	Log top depth [m]	Log bottom depth [m]
ARC9 TELE950	156	1563
PDX5 ARCVIS675 TELE625	1553	2650
TELE950	105	156

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	155.5	36	155.5	0.00	
SURF.COND.	20	566.8	26	575.0	1.43	FIT
INTERM.	13 3/8	1552.7	17 1/2	1560.0	1.71	LOT
OPEN HOLE		2650.0	8 1/2	2650.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
630	1.28	12.0		Glydril	
1260	1.26	15.0		Glydril	
1560	1.30	15.0		Glydril	
1560	1.34	20.0		EMS 4400	
1730	1.34	20.0		EMS 4400	
2274	1.39	23.0		EMS 4400	
2651	1.39	24.0		EMS 4400	