General information

Wellbore name	25/11-28
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	25/11-28
Seismic location	LN12M02R14-RAW-KPSDM-FULL.inline 4614.crossline 4597
Production licence	169
Drilling operator	Statoil Petroleum AS
Drill permit	1597-L
Drilling facility	SONGA TRYM
Drilling days	19
Entered date	07.09.2015
Completed date	25.09.2015
Release date	25.09.2017
Publication date	23.09.2017
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	118.0
Total depth (MD) [m RKB]	2590.0
Final vertical depth (TVD) [m RKB]	2588.0
Maximum inclination [°]	7.9
Bottom hole temperature [°C]	102
Oldest penetrated formation	BASEMENT
Geodetic datum	ED50
NS degrees	59° 0' 31.12'' N
EW degrees	2° 21' 59.27'' E
NS UTM [m]	6541337.87
EW UTM [m]	463609.55
UTM zone	31
NPDID wellbore	7776

Wellbore history

General

Well 25/11-28 was drilled on the Utsira High ca 13 kilometres south of the Grane field in the North Sea. The objective of the well was to prove petroleum in Late Jurassic Intra Draupne Formation sandstone (Gasol prospect) and in the Permian Rotliegendes Group (Gretel prospect).

Operations and results

Wildcat well 25/11-28 was spudded with the semi-submersible installation Songa Trym on 7 September 2015 and drilled to TD at 2590 m in Basement rock. No significant problem was encountered in the operations. The well was drilled with seawater down to 565 m, with Glydril mud from 565 m to 1687 m and with EMS 4400 oil based mud from 1687 m to TD.

The well encountered reservoir sandstones within the Viking Group, the Statfjord Group, the Triassic Hegre Group, and the Rotliegendes Group. The well penetrated basement rock (granite) at TD. Reservoir sandstones were found within the Draupne Formation, Statfjord Group and Hegre Group. All these reservoirs were water bearing. The Permian Rotliegendes Group, consisting of mainly conglomerates proved to be tight with poor reservoir quality. Pressure data showed two or three water gradients in the Statfjord Group. The lower pressured gradients were recorded in the upper part; above ca 2027 m, while the highest pressured Statfjord Gradient was below ca 2027 m. Moderate quality pressure points in the Intra Draupne sandstone and in the Hegre Group indicated higher pressures above and below the Statfjord Group. No oil shows were recorded in any section of the well.

One core was cut from 1992 to 2046.6 m in the Intra Draupne Formation sandstone and in the Statfjord Group with 100% recovery. No fluid sample was taken.

The well was permanently abandoned on 25 September 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]
570.00	2856.00

Cuttings available for sampling?	YES

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1992.0	2046.6	[m]

Total core sample length [m]	54.6
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
570.0	[m]	DC	CGG
600.0	[m]	DC	CGG
630.0	[m]	DC	CGG
660.0	[m]	DC	CGG
690.0	[m]	DC	CGG
720.0	[m]	DC	CGG
810.0	[m]	DC	CGG
840.0	[m]	DC	CGG
900.0	[m]	DC	CGG
980.0	[m]	DC	CGG
1050.0	[m]	DC	CGG
1070.0	[m]	DC	CGG
1110.0	[m]	DC	CGG
1140.0	[m]	DC	CGG
1170.0	[m]	DC	CGG
1200.0	[m]	DC	CGG
1230.0	[m]	DC	CGG
1260.0	[m]	DC	CGG
1290.0	[m]	DC	CGG
1330.0	[m]	DC	CGG
1350.0	[m]	DC	CGG
1380.0	[m]	DC	CGG
1410.0	[m]	DC	CGG
1450.0	[m]	DC	CGG
1470.0	[m]	DC	CGG
1500.0	[m]	DC	CGG
1570.0	[m]	DC	CGG
1600.0	[m]	DC	CGG
1630.0	[m]	DC	CGG
1660.0	[m]	DC	CGG
1690.0	[m]	DC	CGG
1720.0	[m]	DC	CGG

1740.0	[m]	DC	CGG
1750.0	[m]	DC	CGG
1770.0	[m]	DC	CGG
1780.0	[m]	DC	CGG
1790.0	[m]	DC	CGG
1800.0	[m]	DC	CGG
1820.0	[m]	DC	CGG
1840.0	[m]	DC	CGG
1860.0	[m]	DC	CGG
1870.0	[m]	DC	CGG
1910.0	[m]	DC	CGG
1923.0	[m]	DC	CGG
1935.0	[m]	DC	CGG
1947.0	[m]	DC	CGG
1959.0	[m]	DC	CGG
1971.0	[m]	DC	CGG
1977.0	[m]	DC	CGG
1980.0	[m]	DC	CGG
1986.0	[m]	DC	CGG
1988.0	[m]	SWC	CGG
1989.0	[m]	DC	CGG
1992.0	[m]	C	CGG
1995.0	[m]	C	CGG
1999.0	[m]	C	CGG
2000.8	[m]	C	CGG
2002.0	[m]	C	CGG
2004.6	[m]	C	CGG
2005.0	[m]	C	CGG
2006.0	[m]	C	CGG
2009.2	[m]	C	CGG
2011.0	[m]	C	CGG
2013.6	[m]	C	CGG
2018.0	[m]	C	CGG
2021.0	[m]	C	CGG
2024.1	[m]	C	CGG
2027.0	[m]	C	CGG
2030.7	[m]	C	CGG
2035.0	[m]	C	CGG
2036.9	[m]	C	CGG
2041.0	[m]	C	CGG

2045.0	[m]	C	CGG
2045.7	[m]	C	CGG
2052.0	[m]	DC	CGG
2062.0	[m]	SWC	CGG
2067.0	[m]	SWC	CGG
2082.0	[m]	DC	CGG
2109.0	[m]	DC	CGG
2115.0	[m]	SWC	CGG
2119.0	[m]	SWC	CGG
2124.0	[m]	DC	CGG
2130.4	[m]	SWC	CGG
2136.0	[m]	DC	CGG
2160.0	[m]	DC	CGG
2166.0	[m]	DC	CGG
2184.0	[m]	DC	CGG
2196.0	[m]	DC	CGG
2202.0	[m]	DC	CGG
2208.0	[m]	DC	CGG

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
143	NORDLAND GP
143	NO FORMAL NAME
739	UTSIRA FM
790	HORDALAND GP
790	NO FORMAL NAME
863	SKADE FM
1025	NO FORMAL NAME
1075	SKADE FM
1105	NO FORMAL NAME
1520	GRID FM
1648	NO FORMAL NAME
1764	ROGALAND GP
1764	BALDER FM
1779	SELE FM
1824	LISTA FM
1917	VÅLE FM
1925	SHETLAND GP

1925	TOR FM
1952	HOD FM
1960	CROMER KNOLL GP
1960	RØDBY FM
1975	ÅSGARD FM
1984	VIKING GP
1984	DRAUPNE FM
2005	STATFJORD GP
2005	UNDIFFERENTIATED
2147	HEGRE GP
2147	UNDIFFERENTIATED
2229	ROTLIEGEND GP
2574	BASEMENT

Logs

Log type	Log top depth [m]	Log bottom depth [m]
GR VSI4	161	2588
GR XLROCK	1687	2588
MWD - ARC9 TELE	565	1687
MWD - ARCRES6 TELE	1687	2590
MWD - ARCVRES9 TELE	193	565
PEX AIT XPT MSIP	1690	2588

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	193.0	36	193.0	0.00	
INTERM.	13 3/8	560.2	17 1/2	565.0	0.00	
LINER	9 5/8	1685.5	12 1/4	1687.0	1.51	FIT
OPEN HOLE		2590.0	8 1/2	2590.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
193	1.35	15.0		Glydril	

193	1.05	16.0		Spud Mud	
193	1.60	18.0		Kill fluid	
291	1.05	16.0		Spud Mud	
565	1.30	12.0		Glydril	
565	1.35	15.0		Glydril	
568	1.30	13.0		Glydril	
1179	1.30	15.0		Glydril	
1678	1.28	18.0		EMS 4400	
1686	1.32	17.0		Glydril	
1686	1.30	15.0		Glydril	
1818	1.28	16.0		EMS 4400	
2047	1.28	19.0		EMS 4400	
2295	1.28	23.0		EMS 4400	
2590	1.28	23.0		EMS 4400	