

**General information**

Wellbore name	25/11-27
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	BREIDABLIKK
Discovery	25/11-27 (F-struktur)
Well name	25/11-27
Seismic location	3D survey : NH9301-BIN -inline 1354 & xline878
Production licence	169 B2
Drilling operator	Statoil Petroleum AS
Drill permit	1449-L
Drilling facility	SONGA TRYM
Drilling days	25
Entered date	04.05.2013
Completed date	29.05.2013
Release date	29.05.2015
Publication date	29.05.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	PALEOCENE
1st level with HC, formation	HEIMDAL FM
Kelly bushing elevation [m]	25.0
Water depth [m]	128.0
Total depth (MD) [m RKB]	1890.0
Final vertical depth (TVD) [m RKB]	1890.0
Maximum inclination [°]	2.4
Bottom hole temperature [°C]	79
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	TOR FM
Geodetic datum	ED50
NS degrees	59° 14' 15.09" N
EW degrees	2° 32' 49.75" E



NS UTM [m]	6566740.69
EW UTM [m]	474161.13
UTM zone	31
NPDID wellbore	7179

Wellbore history

General

Well 25/11-27 was drilled on the Grane F-structure, ca nine kilometres northeast of the Grane field in the North Sea. The primary objective was to prove petroleum in Paleocene reservoir rocks (the Heimdal Formation), but also to find out if there could be communication with the Grane field in the event of a discovery.

Operations and results

Wildcat well 25/11-27 was spudded with the semi-submersible installation Songa Trym on 4 May 2013 and drilled to TD at 1890 m in the Late Cretaceous Tor Formation. The first attempt to spud failed due a very competent seabed. The re-spud was successful and operations proceeded without further significant problems. No shallow gas was seen. The well was drilled with seawater and hi-vis sweeps down to 1159 m and with XP-07 oil based mud from 1159 m to TD.

Top of the primary target Heimdal Formation was encountered at 1743 m, 10 m shallow to prognosis. The Heimdal Formation contains four sandstones in the upper part, varying in thickness between 2 to 5 meters, and a 39 m thick massive sandstone with top at 1766 m in the lower part. The sandstones were oil bearing with all five sandstones on the same oil gradient. The OWC was clearly defined at 1785 m in the middle of the lower sandstone. The reservoir had excellent properties. Pressure measurements show a highly undersaturated oil with similar properties and the same pressure regime as the main Grane Field reservoir. No oil shows were described in the well other than in the oil-bearing sandstones in the Heimdal Formation.

One core was cut from 1769.4 to 1796.5 m in the lower Heimdal massive sandstone. MDT fluid samples were taken at 1766.5 m (oil of density 0.929 g/cm³) and 1803 m (water).

The well was permanently abandoned on 29 May 2013 as an oil discovery.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1160.00	1890.00

Cuttings available for sampling?	YES
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**Cores at the Norwegian Offshore Directorate**

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1769.0	1795.5	[m]

Total core sample length [m]	26.5
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1200.0	[m]	DC	FUGRO
1220.0	[m]	DC	FUGRO
1240.0	[m]	DC	FUGRO
1260.0	[m]	DC	FUGRO
1280.0	[m]	DC	FUGRO
1300.0	[m]	DC	FUGRO
1320.0	[m]	DC	FUGRO
1340.0	[m]	DC	FUGRO
1360.0	[m]	DC	FUGRO
1380.0	[m]	DC	FUGRO
1400.0	[m]	DC	FUGRO
1420.0	[m]	DC	FUGRO
1430.0	[m]	DC	FUGRO
1440.0	[m]	DC	FUGRO
1450.0	[m]	DC	FUGRO
1460.0	[m]	DC	FUGRO
1480.0	[m]	DC	FUGRO
1500.0	[m]	DC	FUGRO
1520.0	[m]	DC	FUGRO
1540.0	[m]	DC	FUGRO
1560.0	[m]	DC	FUGRO
1580.0	[m]	DC	FUGRO
1600.0	[m]	DC	FUGRO
1620.0	[m]	DC	FUGRO
1640.0	[m]	DC	FUGRO
1660.0	[m]	DC	FUGRO
1670.0	[m]	DC	FUGRO
1680.0	[m]	DC	FUGRO



1690.0 [m]	DC	FUGRO
1693.0 [m]	DC	FUGRO
1696.0 [m]	DC	FUGRO
1699.0 [m]	DC	FUGRO
1702.0 [m]	DC	FUGRO
1705.0 [m]	DC	FUGRO
1711.0 [m]	DC	FUGRO
1717.0 [m]	DC	FUGRO
1723.0 [m]	DC	FUGRO
1729.0 [m]	DC	FUGRO
1732.0 [m]	DC	FUGRO
1735.0 [m]	DC	FUGRO
1741.0 [m]	DC	FUGRO
1747.0 [m]	DC	FUGRO
1753.0 [m]	DC	FUGRO
1759.0 [m]	DC	FUGRO
1765.0 [m]	DC	FUGRO
1769.5 [m]	DC	FUGRO
1798.0 [m]	DC	FUGRO
1804.0 [m]	DC	FUGRO
1810.0 [m]	DC	FUGRO
1816.0 [m]	DC	FUGRO
1822.0 [m]	DC	FUGRO
1828.0 [m]	DC	FUGRO
1834.0 [m]	DC	FUGRO
1840.0 [m]	DC	FUGRO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
153	NORDLAND GP
664	UTSIRA FM
983	HORDALAND GP
1065	SKADE FM
1107	UNDIFFERENTIATED
1701	ROGALAND GP
1701	BALDER FM
1730	LISTA FM
1743	HEIMDAL FM



1805	LISTA FM
1838	VÅLE FM
1842	SHETLAND GP
1842	EKOFISK FM
1851	TOR FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MDT	1716	1803
MWD - PD VARC8 TELE GVR8	1159	1890
MWD - PD VARC9 TELE	208	1159
PEX MSIP AIT	1150	1896
VSI4 GR	356	1820

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	202.0	36	208.0	0.00	
INTERM.	13 3/8	1150.6	17 1/2	1159.0	1.71	LOT
OPEN HOLE		1890.0	12 1/4	1890.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
208	1.03			seawater	
1159	1.03			seawater	
1890	1.28			OBM XP-07	