

**General information**

Wellbore name	30/11-11 S
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	MUNIN
Discovery	30/11-11 S (Madam Felle)
Well name	30/11-11
Seismic location	MC3D-NVG05STZ12-PSDM-KIR-FULLSTK-FIN-D. In
Production licence	035
Drilling operator	Statoil Petroleum AS
Drill permit	1610-L
Drilling facility	SONGA DELTA
Drilling days	16
Entered date	04.03.2016
Completed date	19.03.2016
Plugged date	19.03.2016
Release date	19.03.2018
Publication date	18.03.2018
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	TARBERT FM
Kelly bushing elevation [m]	29.0
Water depth [m]	106.0
Total depth (MD) [m RKB]	3675.0
Final vertical depth (TVD) [m RKB]	3673.0
Maximum inclination [°]	10
Bottom hole temperature [°C]	130
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	NESS FM
Geodetic datum	ED50
NS degrees	60° 4' 29.83" N



EW degrees	2° 38' 8.82" E
NS UTM [m]	6659970.27
EW UTM [m]	479729.86
UTM zone	31
NPDID wellbore	7896

Wellbore history

Wellbore history

General

Well 30/11-11 S was drilled to test the Madam Felle prospect on the east flank of the Fensal Sub-basin in the North Sea. The well is located ca 3 km south of the Askja East oil Discovery. The primary objective was to prove petroleum in the Middle Jurassic Tarbert Formation. The secondary objective was to prove petroleum in the Middle Jurassic Ness formation.

Operations and results

Wildcat well 30/11-11 S was spudded with the semi-submersible installation Songa Delta on 4 March 2016 and drilled to TD at 3675 m in the Middle Jurassic Ness Formation. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis pills down to 1150 m and with XP07 oil based mud from 1150 m to TD.

Well 30/11-11 S encountered oil in a sandstone from 3290 m to 3315 m in the top of the Tarbert Formation. Twenty-two metres of this sandstone had moderate to good reservoir properties. The Ness Formation had sandstones with moderate to good porosity, but these were water bearing. No oil shows were recorded in the well except for in the hydrocarbon bearing Tarbert sandstone sequence.

No cores were cut. MDT fluid samples were taken at 3299.5 m (oil) and 3403 m (water).

The well was permanently abandoned on 19 March 2016 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	3674.00

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

Sample depth	Depth unit	Sample type	Laboratory
1160.0	[m]	DC	PETROSTR
1190.0	[m]	DC	PETROS
1220.0	[m]	DC	PETROS
1250.0	[m]	DC	PETROS
1280.0	[m]	DC	PETROS
1310.0	[m]	DC	PETROS
1340.0	[m]	DC	PETROS
1370.0	[m]	DC	PETROS
1400.0	[m]	DC	PETROS
1430.0	[m]	DC	PETROS
1460.0	[m]	DC	PETROS
1500.0	[m]	DC	PETROS
1530.0	[m]	DC	PETROS
1560.0	[m]	DC	PETROS
1590.0	[m]	DC	PETROS
1620.0	[m]	DC	PETROS
1650.0	[m]	DC	PETROS
1680.0	[m]	DC	PETROS
1710.0	[m]	DC	PETROS
1740.0	[m]	DC	PETROS
1770.0	[m]	DC	PETROS
1800.0	[m]	DC	PETROS
1830.0	[m]	DC	PETROS
1860.0	[m]	DC	PETROS
1890.0	[m]	DC	PETROS
1920.0	[m]	DC	PETROS
1950.0	[m]	DC	PETROS
1980.0	[m]	DC	PETROS
2010.0	[m]	DC	PETROS
2040.0	[m]	DC	PETROS
2070.0	[m]	DC	PETROS
2100.0	[m]	DC	PETROS
2120.0	[m]	DC	PETROS
2140.0	[m]	DC	PETROS
2160.0	[m]	DC	PETROS
2180.0	[m]	DC	PETROS
2200.0	[m]	DC	PETROS



2220.0	[m]	DC	PETROS
2240.0	[m]	DC	PETROS
2260.0	[m]	DC	PETROS
2280.0	[m]	DC	PETROS
2300.0	[m]	DC	PETROS
2320.0	[m]	DC	PETROS
2340.0	[m]	DC	PETROS
2360.0	[m]	DC	PETROS
2380.0	[m]	DC	PETROS
2400.0	[m]	DC	PETROS
2420.0	[m]	DC	PETROS
2440.0	[m]	DC	PETROS
2460.0	[m]	DC	PETROS
2480.0	[m]	DC	PETROS
2500.0	[m]	DC	PETROS
2520.0	[m]	DC	PETROS
2540.0	[m]	DC	PETROS
2560.0	[m]	DC	PETROS
2580.0	[m]	DC	PETROS
2590.0	[m]	DC	PETROS
2620.0	[m]	DC	PETROS
2650.0	[m]	DC	PETROS
2680.0	[m]	DC	PETROS
2710.0	[m]	DC	PETROS
2740.0	[m]	DC	PETROS
2770.0	[m]	DC	PETROS
2800.0	[m]	DC	PETROS
2830.0	[m]	DC	PETROS
2860.0	[m]	DC	PETROS
2890.0	[m]	DC	PETROS
2920.0	[m]	DC	PETROS
2950.0	[m]	DC	PETROS
2980.0	[m]	DC	PETROS
2990.0	[m]	DC	PETROS
3000.0	[m]	DC	PETROS
3010.0	[m]	DC	PETROS
3020.0	[m]	DC	PETROS
3030.0	[m]	DC	PETROS
3040.0	[m]	DC	PETROS
3050.0	[m]	DC	PETROS



3060.0	[m]	DC	PETROS
3070.0	[m]	DC	PETROS
3083.0	[m]	DC	PETROS
3089.0	[m]	DC	PETROS
3092.0	[m]	DC	PETROS
3101.0	[m]	DC	PETROS
3110.0	[m]	DC	PETROS
3119.0	[m]	DC	PETROS
3128.0	[m]	DC	PETROS
3137.0	[m]	DC	PETROS
3146.0	[m]	DC	PETROS
3155.0	[m]	DC	PETROS
3164.0	[m]	DC	PETROS
3173.0	[m]	DC	PETROS
3182.0	[m]	DC	PETROS
3191.0	[m]	DC	PETROS
3200.0	[m]	DC	PETROS
3209.0	[m]	DC	PETROS
3218.0	[m]	DC	PETROS
3227.0	[m]	DC	PETROS
3236.0	[m]	DC	PETROS
3245.0	[m]	DC	PETROS
3254.0	[m]	DC	PETROS
3263.0	[m]	DC	PETROS
3272.0	[m]	DC	PETROS
3281.0	[m]	DC	PETROS
3287.0	[m]	DC	PETROS
3293.0	[m]	DC	PETROS
3299.0	[m]	DC	PETROS
3305.0	[m]	DC	PETROS
3311.0	[m]	DC	PETROS
3317.0	[m]	DC	PETROS
3323.0	[m]	DC	PETROS
3329.0	[m]	DC	PETROS
3335.0	[m]	DC	PETROS
3341.0	[m]	DC	PETROS
3347.0	[m]	DC	PETROS
3356.0	[m]	DC	PETROS
3365.0	[m]	DC	PETROS
3374.0	[m]	DC	PETROS



3383.0	[m]	DC	PETROS
3392.0	[m]	DC	PETROS
3401.0	[m]	DC	PETROS
3410.0	[m]	DC	PETROS
3419.0	[m]	DC	PETROS
3428.0	[m]	DC	PETROS
3437.0	[m]	DC	PETROS
3446.0	[m]	DC	PETROS
3455.0	[m]	DC	PETROS
3464.0	[m]	DC	PETROS
3473.0	[m]	DC	PETROS
3482.0	[m]	DC	PETROS
3491.0	[m]	DC	PETROS
3500.0	[m]	DC	PETROS
3509.0	[m]	DC	PETROS
3518.0	[m]	DC	PETROS
3527.0	[m]	DC	PETROS
3536.0	[m]	DC	PETROS
3545.0	[m]	DC	PETROS
3554.0	[m]	DC	PETROS
3563.0	[m]	DC	PETROS
3572.0	[m]	DC	PETROS
3581.0	[m]	DC	PETROS
3590.0	[m]	DC	PETROS
3599.0	[m]	DC	PETROS
3608.0	[m]	DC	PETROS
3617.0	[m]	DC	PETROS
3626.0	[m]	DC	PETROS
3635.0	[m]	DC	PETROS
3644.0	[m]	DC	PETROS
3653.0	[m]	DC	PETROS
3662.0	[m]	DC	PETROS
3668.0	[m]	DC	PETROS
3674.0	[m]	DC	PETROS

Oil samples at the Norwegian Offshore Directorate



Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
DST		3299.50	0.00	OIL		YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
135	NORDLAND GP
135	UNDIFFERENTIATED
426	UTSIRA FM
689	HORDALAND GP
689	UNDIFFERENTIATED
1530	GRID FM
1583	NO FORMAL NAME
1710	NO FORMAL NAME
2093	FRIGG FM
2157	ROGALAND GP
2157	BALDER FM
2197	SELE FM
2251	HERMOD FM
2374	LISTA FM
2470	VÅLE FM
2584	SHETLAND GP
2584	HARDRÅDE FM
2839	KYRRE FM
2976	CROMER KNOLL GP
2976	RØDBY FM
3093	ÅSGARD FM
3095	VIKING GP
3095	DRAUPNE FM
3140	HEATHER FM
3291	BRENT GP
3291	TARBERT FM
3532	NESS FM

Logs



Log type	Log top depth [m]	Log bottom depth [m]
AIT MSIP QUANTAGEO	2950	3678
MDT	3296	3482
MWD - ARCVIS TELE	185	1150
MWD - ARCVIS TELE	3022	3675
MWD - ARCVIS TELE SON SADN	1150	3022
PEX ECS HNGS CMR	3017	3678
VSI4	313	3668

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	185.0	36	185.0	0.00	
SURF.COND.	13 3/8	1142.0	17 1/2	1150.0	1.56	FIT
LINER	9 5/8	3017.0	12 1/4	3022.0	1.51	FIT
OPEN HOLE		3675.0	8 1/2	3675.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
186	1.30	45.0		Bentonite/Polymer mud	
850	1.30	45.0		Bentonite/Polymer mud	
1095	1.34	20.0		XP-07	
1095	1.30	19.0		XP-07	
1150	1.39	14.0		XP-07	
1150	1.30	43.0		Bentonite/Polymer mud	
1638	1.39	17.0		XP-07	
2543	1.39	18.0		XP-07	
3027	1.30	15.0		XP-07	
3675	1.30	18.0		XP-07	