General information

Wellbore name	30/11-14 B
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	30/11-14 B (Haraldsplass)
Well name	30/11-14
Seismic location	MC3D-NVG05STZ12-PSDM-KIR-FULLSTK-FIN-D In-line 1602 X-line: 2497
Production licence	272
Drilling operator	Statoil Petroleum AS
Drill permit	1628-L
Drilling facility	SONGA DELTA
Drilling days	19
Entered date	06.07.2016
Completed date	23.07.2016
Release date	23.07.2018
Publication date	23.07.2018
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS/CONDENSATE
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]	107.0
Total depth (MD) [m RKB]	4187.0
Final vertical depth (TVD) [m RKB]	3376.0
Maximum inclination [°]	63.5
Bottom hole temperature [°C]	126
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	60° 11' 29.91'' N
EW degrees	2° 35' 11.08'' E

NS UTM [m]	6672982.46
EW UTM [m]	477063.48
UTM zone	31
NPDID wellbore	7984

Wellbore history

General

Well 30/11-14 B is a geological sidetrack to well 30/11-14. The wells are located on the eastern flank of the Fensal Sub-basin in the North Sea. Well 30/11-14 discovered gas-condensate in the Slemmestad prospect, at two levels within the Middle Jurassic Tarbert Formation. The sidetrack was drilled to test the Haraldsplass prospect in a separate fault block to the Slemmestad structure. The primary exploration target was to prove petroleum in the Middle Jurassic Tarbert Formation. The secondary exploration target was to prove petroleum in the Middle Jurassic Ness Formation.

Operations and results

Wildcat well 30/11-14 B was kicked off at 6 July 2016 through a milled window in the 13 3/8" casing at 1529.2 m in well 30/11-14. It was drilled with the semi-submersible installation Songa Delta to TD at 4187 m in the Early Jurassic Drake Formation. No significant problem was encountered in the operations. The well was drilled with XP-07 oil based mud from kick-off to TD.

Top Tarbert Formation was penetrated at 3634 m (2879 m TVD). Hydrocarbons were encountered in three different reservoir intervals: gas-condensate from 3634 to 3687 m (2879 to 2924 m TVD), gas-condensate from 3717.5 to 3732 m (2949 to 2962 m TVD) and oil from 3747 to 3763 m (2974 to 2988 m TVD). Gas responses were observed in the Ness and Etive formations, mostly related to coal beds. No oil shows were observed in this well.

No cores were cut. MDT fluid samples were taken at 3644.2 m (gas), 3720.5 m (gas), 3747.5 m (oil), and 3763.5 m (water).

The well was permanently abandoned on 23 July 2016 as an oil/gas/condensate discovery.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1550.00	4186.00

Cuttings available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
3556.0	[m]	DC	PETROSTR
3562.0	[m]	DC	PETROS
3565.0	[m]	DC	PETROS
3568.0	[m]	DC	PETROS
3574.0	[m]	DC	PETROS
3580.0	[m]	DC	PETROS
3586.0	[m]	DC	PETROS
3592.0	[m]	DC	PETROS
3598.0	[m]	DC	PETROS
3610.0	[m]	DC	PETROS
3616.0	[m]	DC	PETROS
3622.0	[m]	DC	PETROS
3628.0	[m]	DC	PETROS
3634.0	[m]	DC	PETROS
3640.0	[m]	DC	PETROS
3649.0	[m]	DC	PETROS
3658.0	[m]	DC	PETROS
3667.0	[m]	DC	PETROS
3676.0	[m]	DC	PETROS
3685.0	[m]	DC	PETROS
3694.0	[m]	DC	PETROS
3703.0	[m]	DC	PETROS
3712.0	[m]	DC	PETROS
3721.0	[m]	DC	PETROS
3733.0	[m]	DC	PETROS
3745.0	[m]	DC	PETROS
3757.0	[m]	DC	PETROS
3769.0	[m]	DC	PETROS
3781.0	[m]	DC	PETROS
3793.0	[m]	DC	PETROS
3805.0	[m]	DC	PETROS
3817.0	[m]	DC	PETROS
3829.0	[m]	DC	PETROS
3841.0	[m]	DC	PETROS
3853.0	[m]	DC	PETROS
3865.0	[m]	DC	PETROS
3877.0	[m]	DC	PETROS
3889.0	[m]	DC	PETROS

3901.0	[m]	DC	PETROS
3913.0	[m]	DC	PETROS
3925.0	[m]	DC	PETROS
3937.0	[m]	DC	PETROS
3949.0	[m]	DC	PETROS
3961.0	[m]	DC	PETROS
3973.0	[m]	DC	PETROS
3985.0	[m]	DC	PETROS
3997.0	[m]	DC	PETROS
4009.0	[m]	DC	PETROS
4021.0	[m]	DC	PETROS
4033.0	[m]	DC	PETROS
4045.0	[m]	DC	PETROS
4057.0	[m]	DC	PETROS
4069.0	[m]	DC	PETROS
4081.0	[m]	DC	PETROS
4093.0	[m]	DC	PETROS
4105.0	[m]	DC	PETROS
4117.0	[m]	DC	PETROS
4129.0	[m]	DC	PETROS
4141.0	[m]	DC	PETROS
4150.0	[m]	DC	PETROS
4159.0	[m]	DC	PETROS
4168.0	[m]	DC	PETROS
4177.0	[m]	DC	PETROS
4186.0	[m]	DC	PETROS

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
136	NORDLAND GP
492	UTSIRA FM
809	HORDALAND GP
809	UNDIFFERENTIATED
813	SKADE FM
944	UNDIFFERENTIATED
1335	GRID FM
1479	NO FORMAL NAME
1520	NO FORMAL NAME

2550	ROGALAND GP
2550	BALDER FM
2646	SELE FM
2700	HERMOD FM
2730	SELE FM
2868	LISTA FM
3089	VÅLE FM
3160	SHETLAND GP
3160	HARDRÅDE FM
3434	KYRRE FM
3570	VIKING GP
3570	HEATHER FM
3634	BRENT GP
3634	TARBERT FM
3901	NESS FM
4123	ETIVE FM
4129	RANNOCH FM
4147	DUNLIN GP
4147	DRAKE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT PEX HNGS ECS GR	3542	4191
MDT GR	3635	4020
MDT GR	3747	3763
MSIP GR	3542	4191
MWD - DI GR RES	1537	4187
PEX GR	3542	4191

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	172.0	36	172.0	0.00	
		456.0		0.0	1.55	FIT
SURF.COND.	20	457.0	26	466.0	0.00	
PILOT HOLE		979.0	8 1/2	0.0	0.00	
		1521.0		0.0	1.63	FIT

LINER	9 5/8	3538.0	12 1/4	3539.0	1.55	FIT
OPEN HOLE		4187.0	8 1/2	4187.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1536	1.39	24.0		XP-07	
1793	1.55	34.0		XP-07	
2447	1.55	38.0		XP-07	
3155	1.55	36.0		XP-07	
3468	1.30	20.0		XP-07	
3520	1.55	26.0		XP-07	
3539	1.30	21.0		XP-07	
3539	1.35	18.0		XP-07	
3728	1.31	18.0		XP-07	
4187	1.30	19.0		XP-07	