

**General information**

Wellbore name	30/11-9 A
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	30/11-9 A (Askja Øst)
Well name	30/11-9
Seismic location	inline 1231 & xline 2271(3D survey:NVG05STR11)
Production licence	272
Drilling operator	Statoil Petroleum AS
Drill permit	1483-L
Drilling facility	OCEAN VANGUARD
Drilling days	56
Entered date	14.11.2013
Completed date	08.01.2014
Release date	08.01.2016
Publication date	08.01.2016
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]	22.0
Water depth [m]	110.0
Total depth (MD) [m RKB]	4054.0
Final vertical depth (TVD) [m RKB]	3667.5
Maximum inclination [°]	39.4
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	NESS FM
Geodetic datum	ED50
NS degrees	60° 6' 10.86" N
EW degrees	2° 35' 13.44" E
NS UTM [m]	6663111.75



EW UTM [m]	477038.13
UTM zone	31
NPDID wellbore	7281

Wellbore history

General

Well 30/11-9 A is a geologic sidetrack to well 30/11-9 S. It was drilled to test the Askja East prospect in the Fensal Sub-basin, about 35 km south of the Oseberg Sør installation in the North Sea. The Askja East prospect is situated in a separate fault block to the 30/11-9 S Askja West discovery. The primary objective for 30/9-11 A was to prove petroleum in the Middle Jurassic Tarbert Formation. The secondary exploration target was to prove petroleum in reservoir rocks in the Middle Jurassic Ness and Etive formations.

Operations and results

Wildcat well 30/11-9 A was kicked off at 1401 m in main well 30/11-9 S on 13 November 2013. It was drilled with the semi-submersible installation Ocean Vanguard to TD at 4054 m in the Middle Jurassic Ness Formation. Problems with the Ocean Vanguard DDM caused some downtime and slow drilling in periods, but otherwise no significant problem was encountered in the operations. The well was drilled with XP-07 oil based mud from kick-off to TD.

The top of the expected main reservoir, Tarbert Formation came in as prognosed at 3615 m (3252 m TVD). Based on pressure gradients and fluid sampling, oil was present in two differently pressured compartments within the upper part of the Tarbert Formation. The upper reservoir contained oil from 3615 m (3252 m TVD) down to an oil-water contact indicated at 3636 m (3272 m TVD). The lower reservoir contained oil from 3745 m (3374.5 m TVD) down to an oil-water contact indicated at 3771 m (3400 m TVD). Oil shows (fluorescence) were described on sandstones in between these two reservoirs. The lower part of Tarbert Formation and the Ness Formation were water bearing. The Etive Formation was not drilled since the Ness Formation was water bearing.

Three cores were cut in 30/11-9 A, all three with 100% recovery. Core 1 was cut from 3613.6 to 3667 m, while cores 2 and 3 were cut and recovered the whole interval from 3738.5 to 3848 m. The core to log depth shift was ca +4.4 m for all three cores. MDT fluid samples were taken at 3619.2 m (oil), 3749.0 m (oil), 3754.9 m (oil), 3771.9 m (water), and 3837.0 m (water).

The well was permanently abandoned on 9 January 2014 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]
1410.00	4054.00



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	3613.6	3667.8	[m]
2	3738.5	3792.6	[m]
3	3792.6	3848.0	[m]

Total core sample length [m]	163.7
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
132	NORDLAND GP
132	UNDIFFERENTIATED
537	UTSIRA FM
697	HORDALAND GP
697	UNDIFFERENTIATED
1429	GRID FM
1481	UNDIFFERENTIATED
2195	FRIGG FM
2299	ROGALAND GP
2299	BALDER FM
2351	SELE FM
2376	HERMOD FM
2575	LISTA FM
2686	VÅLE FM
2800	SHETLAND GP
2800	HARDRÅDE FM
3136	KYRRE FM
3349	CROMER KNOLL GP
3349	UNDIFFERENTIATED
3424	VIKING GP
3424	DRAUPNE FM
3474	HEATHER FM
3615	BRENT GP



3615	TARBERT FM
3896	NESS FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
2XOBMI GPIT NGI HNGS GR	3491	3950
AIT PPC MSIP PPC PEX	3289	4054
CBL USIT GYRO	2836	3421
MWD LWD - PD ARC8 TELE	1289	3512
MWD LWD - PD X6 PERI15 TELE	2474	4054
PS HY PO LFA SC1 MS PC CMR GR	3619	3982
SC PO PA PQ HY PO SC GR CMR	3550	3815
SCEX PO PQ HY LFA SC1 MS PC GR	3619	3755

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
INTERM.	9 5/8	3491.0	12 1/4	3491.0	1.91	LOT
OPEN HOLE		4054.0	8 1/2	4054.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1421	1.43	28.0		XP-07 - Yellow	
2820	1.45	31.0		XP-07 - Yellow	
3228	1.45	23.0		XP-07 - Yellow	
3444	1.30	25.0		XP-07 - Yellow	
3512	1.27	14.0		XP-07 - Yellow	
3613	1.27	20.0		XP-07 - Yellow	
4054	1.29	25.0		XP-07 - Yellow	