



General information

Wellbore name	30/11-8 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	30/11-8 A
Well name	30/11-8
Seismic location	MC3D-NVG05-inline 1610 & xline 3112
Production licence	035
Drilling operator	Statoil Petroleum AS
Drill permit	1360-L
Drilling facility	OCEAN VANGUARD
Drilling days	45
Entered date	20.05.2011
Completed date	03.07.2011
Release date	03.07.2013
Publication date	03.07.2013
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
2nd level with HC, age	LATE JURASSIC
2nd level with HC, formation	HEATHER FM
Kelly bushing elevation [m]	22.0
Water depth [m]	107.5
Total depth (MD) [m RKB]	4475.0
Final vertical depth (TVD) [m RKB]	4268.0
Maximum inclination [°]	37.6
Bottom hole temperature [°C]	143
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	60° 13' 3.03" N



EW degrees	2° 29' 22.2" E
NS UTM [m]	6675900.93
EW UTM [m]	471711.39
UTM zone	31
NPDID wellbore	6611

Wellbore history

General

Well 30/11-8 A is a sidetrack to the 30/11-8 S Krafla well in the Fensal Sub-basin between the Frigg and Oseberg fields in the North Sea. Well 30/11-8 S found oil in the Middle Jurassic Tarbert Formation and condensate in the Middle Jurassic Ness Formation. Similar formations and fluids as found in the 30/11-8 S Krafla main structure were also expected in the nearby Krafla West structure and the main objective for the 30/11-8 A sidetrack, was thus to prove commercial hydrocarbon accumulation in the Upper and Middle Tarbert Formation and potentially in Lower Brent Group. The Krafla West reservoir is situated approximately 400 m deeper than the Krafla main.

Operations and results

Well 30/11-8 A was kicked off at 2135 m (2135 m TVD) in main well bore 30/11-8 S on 20 May 2011. It was drilled with the semi-submersible installation Ocean Vanguard to TD at 4475 m (4268 m TVD) in the Early Jurassic Drake Formation. No significant problem was encountered in the operations. The well was drilled with XP-07 OBM from kick-off to TD.

The Viking Group, Heather Formation was encountered at 3671 m (3471.8 m TVD). At 3802 m (3580 m TVD) an Intra-Heather Formation sandstone sequence was encountered with oil down to ca 3825 m (3602 m TVD). The Brent Group, Tarbert Formation was encountered at 3914.6 m (3713.1 m TVD), which was 61.9 m TVD shallower than prognosed. The Upper and Middle Tarbert Formation reservoirs proved to be condensate filled. The condensate-water contact is estimated at 4017 m (3791.6 m TVD). The Ness and Etive Formations were water filled. Apart from shows in the petroleum-bearing reservoirs the cutting shows descriptions from 4065 - 4083 m MD in the Tarbert Formation had strong yellowish direct fluorescence and very slow streaming milky white cut fluorescence.

One core was cut from 3960 to 3993.5 m in the Tarbert Formation consisting of mainly sandstone and claystone. Depth shift of the core relative to the logs was 2.9 m down. MDT fluid samples were taken at 3810.1 m (oil), 3948.9 m (condensate), 3991.7 m (condensate), and at 4007 m (water).

The well was permanently abandoned on 3 July 2011 as an oil and 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]
2135.00	4475.00

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	3960.0	3993.6	[m]

Total core sample length [m]	33.6
Cores available for sampling?	YES

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		3991.70	0.00	OIL	17.02.2011 - 00:00	YES
DST		3948.90	0.00	OIL	17.02.2011 - 00:00	YES
DST		3810.10	0.00	OIL	17.02.2011 - 00:00	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
130	NORDLAND GP
403	UTSIRA FM
767	HORDALAND GP
2178	ROGALAND GP
2178	BALDER FM
2237	SELE FM
2335	LISTA FM
2511	VÅLE FM
2581	SHETLAND GP
2581	HARDRÅDE FM
2940	KYRRE FM



3481	TRYGGVASON FM
3557	SVARTE FM
3671	VIKING GP
3671	HEATHER FM
3915	BRENT GP
3915	TARBERT FM
4159	NESS FM
4412	ETIVE FM
4425	RANNOCH FM
4436	DUNLIN GP
4436	DRAKE FM

Geochemical information

Document name	Document format	Document size [MB]
6611 01 30 11 8A gch transfer 1	txt	0.00
6611 02 30 11 8A gch results 1	txt	0.06

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CMR HNGS	3794	4450
DUAL OBMI DSI	3570	4400
LWD - ARCVRES6 STET TELE	3960	4475
LWD - ARCVRES8 TELE	2135	3960
MDT HC SA	3810	3948
MDT HC WSA	3948	4007
MDT PP	3803	4423
PEX AIT	3555	4480
PEX DSI	2022	3558
USIT CBL	3065	3508

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	3557.0	12 1/4	3564.0	2.25	LOT
OPEN HOLE		4475.0	8 1/2	4475.0	0.00	LOT



**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
2153	1.45	29.0		XP-07 - #14	
3395	1.82	37.0		XP-07 - #14	
3558	1.53	28.0		XP-07 - #14	
3569	1.64	29.0		XP-07 - #14	
3960	1.65	29.0		XP-07 - #14	
3993	1.70	30.0		XP-07 - #14	
4235	1.74	34.0		XP-07 - #14	
4475	1.79	40.0		XP-07 - #14	