

**General information**

Wellbore name	30/11-7 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	FULLA
Discovery	30/11-7 Fulla
Well name	30/11-7
Seismic location	3Dsurvey NH0609-inline 4200-xline 2041
Production licence	035 B
Drilling operator	StatoilHydro Petroleum AS
Drill permit	1239-L
Drilling facility	TRANSOCEAN LEADER
Drilling days	54
Entered date	02.04.2009
Completed date	25.05.2009
Release date	25.05.2011
Publication date	25.05.2011
Purpose - planned	APPRAISAL
Reentry	NO
Content	GAS/CONDENSATE
Discovery wellbore	NO
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	TARBERT FM
Kelly bushing elevation [m]	23.5
Water depth [m]	111.0
Total depth (MD) [m RKB]	4250.0
Final vertical depth (TVD) [m RKB]	4137.0
Maximum inclination [°]	31.5
Bottom hole temperature [°C]	143
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	NESS FM
Geodetic datum	ED50
NS degrees	60° 0' 21.24" N
EW degrees	2° 22' 25.62" E
NS UTM [m]	6652389.10



EW UTM [m]	465075.91
UTM zone	31
NPDID wellbore	6085

Wellbore history

General

Well 30/11-7 A is a sidetrack from well 30/11-7 on the eastern flank of the Central Viking Graben, NE of the Frigg Field in the North Sea. The main well 30/11-7 discovered gas and condensate in the Middle Jurassic Ness Formation. Due to intra Heather erosion and/or faulting, the upper part of the Brent Group, the Tarbert Formation, was missing in the main well. The objectives of the sidetrack was to verify the quality and presence of the Tarbert Formation within structural closure, and to confirm the gas/water contact that was estimated from the main well pressure data.

Operations and results

Appraisal well 30/11-7 A was kicked off from 30/11-7 at 2846 m in the Jorsalfare Formation, on 2 April 2009. It was drilled to 4250 m (4136.9 m TVD) in the Middle Jurassic Ness Formation using the semi-submersible installation Transocean Leader. No significant problems were encountered in the operations. The well was drilled with Versatec oil based mud from kick-off to TD.

The Viking Group was encountered at 3831.5 m (3762 m TVD) and consisted of a 175 m thick Heather Formation sequence. The top of the reservoir was penetrated at 4007 m (3915.3 m TVD) in a position located 300 m from the main well at top reservoir level. The well proved a gas/condensate filled Tarbert Formation. The Gas-Water Contact is estimated to be at 4086 m (3986.5 m TVD), 18 m TVD above top Ness Formation, based on pressure gradients. The pressure measurements in the contact area are few due to poor reservoir quality; hence the exact contact is uncertain. The result from the pressure measurements proves no communication between the reservoir in the main well and in the sidetrack. The gas/condensate in the sidetrack Tarbert Formation compartment is somewhat richer than in the main well Ness Formation compartment. Some fluorescence was observed on the cores, but the oil based mud is likely to give some fluorescence and origin of the fluorescence is uncertain.

Five cores were cut in the interval 4022 to 4123 m in the Tarbert Formation. Core no 1 from 4022 to 4039 m recovered only 0.9 m core, otherwise the recovery was 98 - 100%. The MDT tool was run for pressure points and fluid samples. Gas was sampled at 4009.5 m and 4047.0 m using the Quicksilver probe, and at 4077.5 m using dual packer. An attempt to sample at the GWC failed due to tight formation. Water was sampled at 4185 m in the Tarbert Formation using dual packer.

The well was permanently abandoned on 25 May 2009 as a gas/condensate appraisal well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate



Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
2860.00	4248.63

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	4022.4	4023.3	[m]
2	4039.0	4053.2	[m]
3	4053.2	4068.8	[m]
4	4068.8	4096.2	[m]
5	4096.2	4123.6	[m]

Total core sample length [m]	85.5
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
135	NORDLAND GP
421	UTSIRA FM
1029	HORDALAND GP
1091	SKADE FM
1360	NO FORMAL NAME
2119	FRIGG FM
2152	ROGALAND GP
2152	BALDER FM
2204	SELE FM
2208	HERMOD FM
2319	LISTA FM
2544	HEIMDAL FM
2614	VÅLE FM
2626	SHETLAND GP
2626	JORSALFARE FM
2912	KYRRE FM
3450	TRYGGVASON FM
3810	CROMER KNOLL GP



3832	VIKING GP
3832	HEATHER FM
4007	BRENT GP
4007	TARBERT FM
4215	NESS FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MDT	4008	4237
MDT MRPA (TLC)	4077	4231
MDT MRPQ	4008	4047
MSIP	3417	4235
MWD - ARCVRES6	4000	4250
MWD - ECOS GVR6 ARCVRES6 STET	3865	4022
MWD - STET TELE ARCVRES6 GVR6	3562	3865
MWD - STET. ARCVRES6 GVR6 TELE	3419	3562
MWD LWD - ARCVRES6	3419	3562
PEX AIT	3417	4248
WAVSP	785	3417

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	3417.0	12 1/4	3419.0	2.01	LOT
OPEN HOLE		4250.0	8 1/2	4250.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
194	1.48	30.0		Versatec	
660	1.48	30.0		Versatec	
2720	1.48	26.0		Versatec	
2982	1.53	40.0		Versatec	



3078	1.61	40.0		Versatec	
3343	1.75	40.0		Versatec	
3343	1.60	29.0		Versatec	
3419	1.76	42.0		Versatec	
3450	1.83	39.0		Versatec	
3562	1.90	44.0		Versatec	
3735	1.89	43.0		Versatec	
3865	1.91	47.0		Versatec	
3881	1.90	45.0		Versatec	
4022	1.91	47.0		Versatec	
4039	1.91	49.0		Versatec	
4096	1.91	48.0		Versatec	
4123	1.91	50.0		Versatec	
4250	1.91	53.0		Versatec	
4250	1.91	53.0		Versatec	