

**General information**

Wellbore name	30/5-3 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
Discovery	30/5-3 S (Corvus)
Well name	30/5-3
Seismic location	NH05M01.inline 3230 & xline 10226
Production licence	309
Drilling operator	StatoilHydro Petroleum AS
Drill permit	1228-L
Drilling facility	TRANSOCEAN WINNER
Drilling days	66
Entered date	06.02.2009
Completed date	12.04.2009
Release date	12.04.2011
Publication date	12.04.2011
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS
Discovery wellbore	YES
1st level with HC, age	LATE TRIASSIC
1st level with HC, formation	HEGRE GP
Kelly bushing elevation [m]	26.0
Water depth [m]	113.0
Total depth (MD) [m RKB]	4335.0
Final vertical depth (TVD) [m RKB]	3863.0
Maximum inclination [°]	52.8
Bottom hole temperature [°C]	150
Oldest penetrated age	EARLY TRIASSIC
Oldest penetrated formation	TEIST FM (INFORMAL)
Geodetic datum	ED50
NS degrees	60° 39' 26.2" N
EW degrees	2° 39' 33.2" E
NS UTM [m]	6724821.34
EW UTM [m]	481369.63



UTM zone	31
NPDID wellbore	6043

Wellbore history

General

Well 30/5-3 S was drilled on the Corvus prospect in the northern part of the Viking Graben at the edge of the Horda Platform in the Northern North Sea. The objective of the well was to prove commercial amount of hydrocarbons in the prognosed Statfjord Fm in the Corvus prospect and to collect all data needed for development of the prospect. Well 30/5-3 S would also serve as kick-off well for a geological sidetrack to a Cretaceous target in the Corvus structure.

Operations and results

Wildcat well 30/5-3 S was spudded with the semi-submersible installation Transocean Winner on 6 February 2009 and drilled to TD at 4335 m (3863 m TVD) in Triassic shales of the Teist Formation. No shallow gas was observed by the ROV or by the MWD while drilling the 36" hole and the 26" hole. The well was vertical down to ca 2550 m and drilled deviated from there to TD. No significant problems were encountered in the operations. The well was drilled with seawater and bentonite sweeps down to 205 m, with seawater/ bentonite sweeps/ Glydril from 205 m to 1004 m, with Glydril mud from 1004 m to 2335 m, and with Versatec oil based mud from 2335 m to TD.

The well penetrated the Triassic at 3396m MD, at the prognosed Jurassic target depth and proved more erosion than expected in the area. The expected Jurassic sediments of the Statfjord Formation were not present; instead the formations of the Hegre Group were encountered directly below the base Cretaceous unconformity. Wire line logs proved a gas bearing interval throughout the drilled Triassic interval with no indication of a GWC encountered. Weak oil shows were recorded in the Triassic sands; otherwise no shows were reported from the well.

Two cores were cut in the Lunde Fm and one core in the thicker sands of the Lomvi Formation. MDT gas samples were taken at 3843.0 m, 3960.0 m, 4122.0 m, and at 4198.5 m. In addition to these samples a scanning station using dual packers was done at 4215.0 m, confirming light hydrocarbons at that depth. The samples taken at 3843.0 and 3960.0 m, (dual-packer sampling) were of poor quality with high contamination of mud filtrate.

The well was plugged back to 1000 m for sidetracking and permanently abandoned on 12 April 2009 as a gas discovery.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1010.00	4334.00



Cuttings available for sampling?	YES
----------------------------------	-----

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	3456.5	3483.8	[m]
2	3483.8	3511.4	[m]
3	4139.0	4167.7	[m]

Total core sample length [m]	83.6
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
139	NORDLAND GP
678	UTSIRA FM
904	HORDALAND GP
1404	SKADE FM
1475	NO FORMAL NAME
1538	SKADE FM
1588	NO FORMAL NAME
2017	ROGALAND GP
2017	BALDER FM
2095	SELE FM
2188	LISTA FM
2326	SHETLAND GP
2326	JORSALFARE FM
2811	KYRRE FM
3220	TRYGGVASON FM
3359	BLODØKS FM
3380	SVARTE FM
3396	HEGRE GP
3396	LUNDE FM
3809	NO FORMAL NAME
4113	LOMVI FM
4222	TEIST FM

**Logs**

Log type	Log top depth [m]	Log bottom depth [m]
AIT OBMI MSIP-TLC	3230	4300
CBL MSIP	950	1485
DUAL-OBMI MSIP PPC	4300	4335
EDTC MDT MRPA-TLC	3454	4215
MWD - ARCVRES9 POWERPULSE	1001	2335
MWD - GVR6 TELE ECO	3423	4335
MWD - POWERPULSE	139	201
MWD - STETH GVR6 TELE ECO	3290	3456
MWD - TELE ARCVRES8	2335	3290
PEX CMR-TLC	3240	4240
PPC XPT	0	0
PPC XPT GR HGNS EDTC LEH ECRD	4300	4335
VSP-PDS	2515	4240

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	201.0	36	205.0	0.00	LOT
SURF.COND.	20	997.0	26	1004.0	1.68	LOT
INTERM.	14	2330.0	17 1/2	2335.0	1.84	LOT
INTERM.	9 5/8	3288.0	12 1/4	3290.0	2.03	LOT
OPEN HOLE		4335.0	8 1/2	4335.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1001	1.33	17.0		Glydril	
1004	1.39	31.0		Versatec	
1400	1.35	24.0		Glydril	
1720	1.45	24.0		Glydril	
2046	1.45	24.0		Glydril	
2302	1.45	24.0		Glydril	
2335	1.48	29.0		Glydril	



2335	1.48	28.0		Glydril	
2830	1.51	34.0		Versatec	
2950	1.51	33.0		Versatec	
3151	1.51	35.0		Versatec	
3290	1.62	45.0		Versatec	
3290	1.62	45.0		Versatec	
3392	1.62	43.0		Versatec	
3512	1.72	46.0		Versatec	
4003	1.71	53.0		Versatec	
4050	1.70	49.0		Versatec	
4158	1.73	58.0		Versatec	
4271	1.70	55.0		Versatec	
4335	1.40	25.0		Versatec	
4335	1.48	27.0		Versatec	
4335	1.70	56.0		Versatec	