General information

Wellbore name	34/7-36 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
Well name	34/7-36
Seismic location	ST0601R07. Inline 2734. Xline 4408
Production licence	553
Drilling operator	Det norske oljeselskap ASA
Drill permit	1530-L
Drilling facility	BORGLAND DOLPHIN
Drilling days	52
Entered date	28.07.2014
Completed date	17.09.2014
Release date	17.08.2015
Publication date	17.08.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	31.0
Water depth [m]	303.5
Total depth (MD) [m RKB]	3690.0
Final vertical depth (TVD) [m RKB]	3670.0
Maximum inclination [°]	10.6
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	NESS FM
Geodetic datum	ED50
NS degrees	61° 21' 46.02'' N
EW degrees	2° 18' 20.84'' E
NS UTM [m]	6803556.35
EW UTM [m]	462880.61
UTM zone	31
NPDID wellbore	7524

Wellbore history

General

Well 34/7-36 S was drilled on the Kvitvole prospect on the Tampen Spur between the Visund and Snorre fields in the North Sea. The Kvitvole primary objective was to test the hydrocarbon potential in Intra-Draupne Formation sandstone. The secondary objective was to test the Blåvola prospect, with possibly hydrocarbon filled sandstones within the Brent Group.

Operations and results

Wildcat well 34/7-36 S was spudded with the semi-submersible installation Borgland Dolphin on 28 July 2014 and drilled to a depth of 1232 m. When running the 20" casing, the casing was stuck at 1119 m. The well was subsequently sidetracked (34/7-36 S T2) at 829 m, and drilled to TD at 3690 m in the Middle Jurassic Ness Formation. The well was drilled with seawater and hi-vis sweeps down to TD at 1235 m in the original hole. The 34/7-36 S sidetrack was drilled with Inovert oil based mud from kick-off to TD. After drilling to TD in the 17 1/2" section a 5-m3 spill of OBM to sea occurred.

The Draupne Formation was encountered at 3396 m. However, the main target of the well, intra Draupne sandstone, was not present. The Brent Group was encountered at 3590 m. Reservoir sandstones were encountered, but the reservoir quality was poorer than expected. No hydrocarbons were observed. Evaluation of oil shows were made difficult due to the use of oil based mud. The only definite oil show described was in a limestone stringer at 3272 m.

No cores were cut in the well. No wire line logs were run in the 8 1/2" section and thus no fluid sampling was attempted the target reservoirs. Due to elevated resistivity in an unexpected Heimdal Formation sandstone two wire line runs were performed in this section. The Heimdal Formation proved water bearing. MDT sampling at 2051 m gave samples with traces of OBM in water.

The well was permanently abandoned on 17 September 2014 as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
840.00	3690.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
335	NORDLAND GP
335	NAUST FM
569	UNDIFFERENTIATED
1084	HORDALAND GP
1084	NO FORMAL NAME
1507	NO FORMAL NAME
1875	ROGALAND GP
1875	BALDER FM
1941	SELE FM
1974	LISTA FM
2042	HEIMDAL FM
2097	SHETLAND GP
2097	JORSALFARE FM
2395	KYRRE FM
3320	TRYGGVASON FM
3376	CROMER KNOLL GP
3376	SOLA FM
3380	MIME FM
3396	VIKING GP
3396	DRAUPNE FM
3480	HEATHER FM
3590	BRENT GP
3590	TARBERT FM
3600	NESS FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - ABG GEO EWR DGR PWD QBAT D	2279	3278
MWD - ABG GYRO DGR EWR PWD DIR	829	2279
MWD - ABR DGR EWR PWD DIR ALD CT	3278	3690
MWD - DGR EWR PWD DIR	420	1235

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	414.0	36	420.0	0.00	
SURF.COND.	20	814.0	26	829.0	0.00	
INTERM.	13 3/8	2226.0	17 1/2	2279.0	0.00	
INTERM.	9 5/8	3272.0	12 1/4	3278.0	0.00	
OPEN HOLE		3690.0	8 1/2	3690.0	0.00	