

**General information**

Wellbore name	31/8-1
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	31/8-1
Seismic location	EO0801;inline 1528&xline5650
Production licence	416
Drilling operator	E.ON Ruhrgas Norge AS
Drill permit	1358-L
Drilling facility	BORGLAND DOLPHIN
Drilling days	28
Entered date	27.06.2011
Completed date	24.07.2011
Release date	13.11.2012
Publication date	13.11.2012
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	31.0
Water depth [m]	304.0
Total depth (MD) [m RKB]	2629.0
Final vertical depth (TVD) [m RKB]	2629.0
Maximum inclination [°]	1.1
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	KROSSFJORD FM
Geodetic datum	ED50
NS degrees	60° 22' 11.23" N
EW degrees	3° 34' 4.94" E
NS UTM [m]	6692886.87
EW UTM [m]	531330.95
UTM zone	31
NPDID wellbore	6604



Wellbore history

General

Well 31/8-1 was drilled on the Breiflabb prospect in the Stord Basin south of the Troll Field in the North Sea. The primary objective was to prove commercial volumes of hydrocarbons in the upper Jurassic Sognefjord formation, which is also the main reservoir in the Troll Field. Deeper secondary targets for the well are the lower to middle Jurassic Johansen formation, the Brent Group, the Krossfjord formation and the Fensfjord formation.

Operations and results

Wildcat well was spudded with the semi-submersible installation Borgland Dolphin on 27 June 2011 and drilled to TD at 2629 m in the Middle Jurassic Krossfjord Formation. A 9 7/8" pilot hole was drilled from 30" shoe to 969 m to check for shallow gas before opening up the hole to 26". No shallow gas was seen. No significant problem was encountered in the operations. The well was drilled with hi-vis bentonite sweeps down to 969 m, with Aqua-Drill mud with 3-5% glycols from 969 m to TD.

Top Draupne came in 110 m thick at 1999 m. Top Sognefjord Formation, top Fensfjord Formation and top Krossfjord Formation came in at 2123 m, 2366.5 m, and 2498 m, respectively. All formations were water bearing and no oil shows were recorded in the well. Lower Krossfjord was first believed to be the Brent Group. Biostratigraphy concluded however that the well did not penetrate top Brent, and so the well was terminated in the Krossfjord Formation.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 24 July 2011 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]
980.00	2628.00

Cuttings available for sampling?	YES
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Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
336	NORDLAND GP
715	HORDALAND GP
1253	ROGALAND GP
1253	BALDER FM
1366	SELE FM
1386	LISTA FM
1466	VÅLE FM
1483	SHETLAND GP
1483	EKOFISK FM
1494	TRYGGVASON FM
1527	BLODØKS FM
1540	SVARTE FM
1599	CROMER KNOLL GP
1599	RØDBY FM
1673	SOLA FM
1811	ÅSGARD FM
1999	VIKING GP
1999	DRAUPNE FM
2109	HEATHER FM
2123	SOGNEFJORD FM
2367	FENSEFJORD FM
2498	KROSSFJORD FM

Geochemical information

Document name	Document format	Document size [MB]
6604_GCH_1	pdf	2.74

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - DIR	335	406
MWD - DIR	406	969
MWD - DIR GR RES	406	969
MWD - DIR GR RES	969	2077
MWD - RES DEN NEU SON TT	2077	2629





VSP	1095	2628
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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	401.0	36	401.0	0.00	LOT
SURF.COND.	20	963.0	26	969.0	1.68	LOT
INTERM.	9 5/8	2070.5	12 1/4	2077.0	1.73	LOT
OPEN HOLE		2629.0	8 1/2	2629.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
335	1.50	11.0		Kill mud	
969	1.48	17.0		Aquadrill	
969	1.25	10.0		Kill mud	
1311	1.39	17.0		Aquadrill	
1420	1.34	12.0		Aquadrill	
1855	1.20	20.0		Aquadrill	
2077	1.20	10.0		Aquadrill	
2405	1.20	11.0		Aquadrill	
2628	1.20	29.0		Aquadrill	
2629	1.20	13.0		Aquadrill	
2826	1.20	11.0		Aquadrill	