

**General information**

Wellbore name	31/10-1
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	31/10-1
Seismic location	Survey UHN98NH911RI13D:iI943 & xI480
Production licence	507
Drilling operator	Tullow Oil Norge AS
Drill permit	1528-L
Drilling facility	BORGLAND DOLPHIN
Drilling days	25
Entered date	01.07.2014
Completed date	25.07.2014
Release date	25.07.2016
Publication date	25.07.2016
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	31.0
Water depth [m]	121.0
Total depth (MD) [m RKB]	2388.0
Final vertical depth (TVD) [m RKB]	2388.0
Maximum inclination [°]	0.8
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	SHETLAND GP
Geodetic datum	ED50
NS degrees	60° 5' 10.41" N
EW degrees	3° 0' 4.01" E
NS UTM [m]	6661169.86
EW UTM [m]	500061.97
UTM zone	31
NPDID wellbore	7504



Wellbore history

General

Well 31/10-1 was drilled to test the Lupus prospect south of the Oseberg/Brage fields on the western flank of the Stord Basin in the North Sea. The objective was to test the hydrocarbon potential in Paleocene sands, with in the Hermod Formation as primary target and the Ty/Heimdal formations as secondary target.

Operations and results

Wildcat well 31/10-1 was spudded with the semi-submersible installation Borgland Dolphin on 1 July 2014 and drilled to TD at 2388 m in the Late Cretaceous Shetland Group. A 9 7/8" pilot hole was drilled to 1083 m to check for shallow gas. No shallow gas was seen. No significant problem was encountered in the operations. The well was drilled with seawater and sweeps down to 1083 m and with Performadril mud from 1083 m to TD.

Reservoirs with good to excellent quality were found in Paleocene Hermod Formation. The Ty Formation was not present. The well was dry without shows all through.

No cores were cut and no wireline logs were run. No fluid sample was taken.

The well was permanently abandoned on 25 July 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]
1090.00	2388.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
152	NORDLAND GP
152	UNDIFFERENTIATED
714	UTSIRA FM
1063	HORDALAND GP
1063	NO FORMAL NAME
1470	SKADE FM
1477	NO FORMAL NAME



1647	NO FORMAL NAME
2085	ROGALAND GP
2085	BALDER FM
2140	SELE FM
2172	HERMOD FM
2207	SELE FM
2215	LISTA FM
2327	VÅLE FM
2348	SHETLAND GP
2348	HARDRÅDE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - DIR	152	224
LWD - DIR PWD	223	1083
LWD - DIR RES GR CTN ALD PWD SON	2109	2388
LWD - DIR RES GR SON PWD	152	1083
LWD - DIR RES GR SON PWD ATBITGR	1083	2109

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	218.5	36	220.5	0.00	
INTERM.	13 3/8	1077.6	17 1/2	1083.0	1.79	LOT
PILOT HOLE		1083.0	9 7/8	1083.0	0.00	
INTERM.	9 5/8	2103.0	12 1/4	2109.0	1.66	LOT
OPEN HOLE		2388.0	8 1/2	2388.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
748	1.34	22.0		PERFORMADRIL	
1120	1.34	17.0		PERFORMADRIL	
1830	1.34	23.0		PERFORMADRIL	



2032	1.34	32.0		PERFORMADRIL	
2113	1.29	20.0		PERFORMADRIL	
2388	1.34	21.0		PERFORMADRIL	