General information

Wellbore name	26/5-1
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	26/5-1
Seismic location	inline 3515 & xline 4760(seismic survey:RS101001
Production licence	506 S
Drilling operator	Rocksource Exploration Norway AS
Drill permit	1443-L
Drilling facility	BORGLAND DOLPHIN
Drilling days	27
Entered date	10.04.2013
Completed date	06.05.2013
Release date	06.05.2015
Publication date	21.05.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	31.2
Water depth [m]	261.0
Total depth (MD) [m RKB]	1910.0
Final vertical depth (TVD) [m RKB]	1910.0
Maximum inclination [°]	0.9
Bottom hole temperature [°C]	74
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	TRYGGVASON FM
Geodetic datum	ED50
NS degrees	59° 40' 18.91'' N
EW degrees	3° 38' 35.7'' E
NS UTM [m]	6615204.04
EW UTM [m]	536235.08
UTM zone	31
NPDID wellbore	7142

Wellbore history

General

Well 26/5-1 was drilled on the Storbarden prospect in the Stord Basin in the North Sea. The primary objective was to prove hydrocarbons in sandstones in the Paleocene Balder Formation. The secondary objective was to test evaluate the hydrocarbon (oil) potential of the Langenuen Prospect in the Utsira Formation.

Operations and results

Wildcat well 26/5-1 was spudded with the semi-submersible installation Borgland Dolphin on 10 April 2013 and drilled to TD at 1910 m in the Cretaceous Tryggvason Formation. No shallow gas was seen. Stuck pipe, mud losses and gas peaks, possibly related to a fault zone, occurred in the interval 1320 m to 1480 in the 12 1/4" hole section. The well was drilled with seawater and hi-vis pills down to 778 m and with Carbosea oil based mud from 778 m to TD.

Top Utsira Formation was penetrated from 817 m to 874 m and was developed with minor siltstone in the upper part grading to silty claystone in the lower part. Two good sandstone sequences were penetrated in the lower Hordaland Group, from 1312 to 1377 m and 1407 to 1434 m. Top Balder Formation was penetrated from 1504 to 1566 m, but the prognosed Intra-Balder sandstones proved to be poorly developed with only a few one-meter thick sandstones based on log evaluation and only grains of sandstone seen in the cuttings. The well was dry all through. Fluorescence was described in several sections of the well, but due to poor cuttings quality and above all, the use of OBM, these shows are inconclusive. Post well chromatographic analyses of thermal extracts from cuttings show nothing but the oil base.

No cores were cut and no wire line logs were run in the well. No fluid samples were taken

The well was permanently abandoned on 6 May 2013 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]
780.00	1910.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
292	NORDLAND GP

292	UNDIFFERENTIATED
874	HORDALAND GP
874	UNDIFFERENTIATED
1495	ROGALAND GP
1495	BALDER FM
1566	SELE FM
1572	LISTA FM
1853	VÅLE FM
1857	SHETLAND GP
1857	TOR FM
1883	TRYGGVASON FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MRCH JAR DSL 3DEX ORIT HDIL	1471	1910
MWD - ACC BHPR BR CAL DEN MECH N	1480	1910
MWD - ACC BHPR CAL DEN GR MECH N	778	1480
MWD - ACC BHPR GR MECH REMP	364	778
MWD - BHPR MECH	292	778
VSP GR	262	1837

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	359.0	36	364.0	0.00	
SURF.COND.	13 3/8	772.0	17 1/2	778.0	0.00	
PILOT HOLE		778.0	9 7/8	778.0	0.00	
INTERM.	9 5/8	1471.0	12 1/4	1480.0	2.00	LOT
OPEN HOLE		1910.0	8 1/2	1910.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
315	1.03			Hi-Vis	

778	1.03			Hi-Vis	
852	1.32	20.0		Carbo-sea OBM	
864	1.19	21.0		Carbo-sea OBM	
1321	1.32	23.0		Carbo-sea OBM	
1640	1.32	22.0		Carbo-sea OBM	
1910	1.25	20.0		Carbo-sea OBM	