

**General information**

Wellbore name	8/10-5 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	8/10-5
Seismic location	CE1202. inline 1591. crossline 2347
Production licence	405
Drilling operator	Centrica Resources (Norge) AS
Drill permit	1485-L
Drilling facility	MÆRSK GIANT
Drilling days	60
Entered date	04.01.2014
Completed date	04.03.2014
Plugged date	04.03.2014
Release date	04.03.2016
Publication date	06.03.2016
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	44.0
Water depth [m]	66.0
Total depth (MD) [m RKB]	2925.0
Final vertical depth (TVD) [m RKB]	2796.0
Maximum inclination [°]	28.6
Bottom hole temperature [°C]	118
Oldest penetrated age	PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	57° 3' 32.64" N
EW degrees	3° 6' 46.97" E
NS UTM [m]	6324108.45
EW UTM [m]	506856.83
UTM zone	31
NPDID wellbore	7291

**Wellbore history****General**

Well 8/10-5 S was drilled to test the Butch East prospect on the Sørvestlandet High in the North Sea. The Butch structure is defined as a salt diapir induced ovoid structure. The primary objective was to evaluate the presence of hydrocarbons in the Late Jurassic Ula Formation of the Butch East segment and thereby evaluate the upside potential for the entire Butch prospect. If the well proved dry, or if it encountered an ODT situation, a sidetrack was planned to establish the OWC.

Operations and results

Wildcat well 8/10-5 S was spudded with the jack-up installation Mærsk Giant on 4 January 2014 and drilled to TD at 2925 m (2791 m TVD) in the Permian Zechstein Group. The well was drilled vertical down to 1550 m and deviated from there, with a sail angle of ca 27.5 ° from ca 1920 m to TD. This was done to avoid potential shallow gas between 450 and 700 m, and to intersect moderately dipping strata at reservoir level at an angle close to perpendicular. No significant problem was encountered in the operations. The well was drilled with bentonite mud down to 430 m, with Glydril mud from 430 m to 749 m and with Versatec oil based mud from 749 m to TD.

The target Ula Formation was encountered at 2708 m (2602.8 m TVD). The Ula Formation and overlying Farsund Formation siltstone were both found to be water wet. No oil shows above the OBM were described in the well. Minor amounts of wet gas was recorded in the Nordland Group between 636 to 700 m.

Two conventional cores were cut continuously from 2672.34 m (top Farsund Formation) to 2769.75 m (uppermost Skagerrak Formation). Water samples were taken at 2724 m.

The well was plugged back for sidetracking on 4 March 2014. It is classified as dry.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
440.00	2925.00

Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	2672.3	2725.2	[m]
2	2725.5	2770.3	[m]



Total core sample length [m]	97.6
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
110	NORDLAND GP
110	UNDIFFERENTIATED
1148	HORDALAND GP
1148	UNDIFFERENTIATED
1715	ROGALAND GP
1715	BALDER FM
1735	SELE FM
1819	VIDAR FM
1949	LISTA FM
1952	SHETLAND GP
1952	EKOFISK FM
2009	TOR FM
2141	HOD FM
2351	CROMER KNOLL GP
2351	RØDBY FM
2376	SOLA FM
2438	TUXEN FM
2473	ÅSGARD FM
2649	TYNE GP
2649	MANDAL FM
2671	FARSUND FM
2708	VESTLAND GP
2708	ULA FM
2760	HEGRE GP
2760	SKAGERRAK FM
2791	SMITH BANK FM
2810	ZECHSTEIN GP

Logs



Log type	Log top depth [m]	Log bottom depth [m]
AIT PEX EDTC LEHQT	0	2885
IS PPC MSIP EDTC PPC GR	0	1914
LWD-GR RES APWD DIR SON DEN NEU	737	2672
LWD-GR RES APWD SON	2665	2919
LWD-GR RES APWD SON DIR	181	734
MDT	2675	2804
NGI PPC MSIP PPC EDTC	2655	2885
USIT CBL VDL	1630	1880
USIT CBL VDL	1800	2200
ZVSP VSI4	1413	2804

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	181.0	36	182.0	0.00	
SURF.COND.	20	428.0	26	430.0	0.00	
LINER	16	738.0	20	746.0	1.75	FIT
INTERM.	13 3/8	1900.0	17 1/2	1912.0	1.91	LOT
INTERM.	9 5/8	2660.0	12 1/4	2665.0	0.00	
OPEN HOLE		2925.0	8 1/2	2925.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
430	1.19	13.0		Bentonite mud	
430	1.23	5.0		Bentonite mud	
749	1.34	20.0		VERSATEC OBM	
749	1.39	23.0		VERSATEC OBM	
749	1.49	37.0		Versatec OBM	
832	1.50	40.0		Versatec OBM	
1644	1.59	44.0		Versatec OBM	
1912	1.49	36.0		Versatec OBM	
1912	1.59	46.0		Versatec OBM	
2071	1.46	31.0		Versatec OBM	
2071	1.52	33.0		Versatec OBM	



2511	1.59	41.0		VERSATEC OBM	
2511	1.55	40.0		VERSATEC OBM	
2665	1.56	36.0		Versatec OBM	
2725	1.53	31.0		VERSATEC OBM	
2725	1.53	31.0		VERSATEC OBM	
2925	1.53	36.0		VERSATEC OBM	