General information

Wellbore name	16/5-6
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	16/5-6
Seismic location	TUN15M01 3D bin datasett: Inline reference: 12688 Croslline reference: between 12383 and 12384
Production licence	776
Drilling operator	Tullow Oil Norge AS
Drill permit	1624-L
Drilling facility	BORGLAND DOLPHIN
Drilling days	19
Entered date	22.06.2016
Completed date	10.07.2016
Plugged and abondon date	10.07.2016
Release date	10.07.2018
Publication date	10.07.2018
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	31.0
Water depth [m]	98.0
Total depth (MD) [m RKB]	2350.0
Final vertical depth (TVD) [m RKB]	2350.0
Maximum inclination [°]	0.9
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	58° 32' 40.41'' N
EW degrees	2° 31' 45.5'' E
NS UTM [m]	6489584.78
EW UTM [m]	472600.05
UTM zone	31
NPDID wellbore	7962

Wellbore history

General

Well 16/5-6 was drilled to test the Rome Central prospect on the southeast part of the Utsira High in the North Sea. The primary objective was to test the presence of and hydrocarbon potential in the Late Jurassic Intra Draupne sandstone. The secondary target was to test the hydrocarbon potential in the underlying preserved wedge of Triassic or Paleozoic sediments.

Operations and results

Wildcat well 16/5-6 was spudded with the semi-submersible installation Borgland Dolphin on 22 June 2016 and drilled to TD at 2350 m in the Triassic Skagerrak Formation. No significant problem was encountered in the operations. The well was drilled with Seawater and sweeps down to 702 m, with Innovert NS oil based mud from 702 m to 2134 m, and with KCl/GEM water based mud from 2134 m to TD.

Well 16/5-6 failed to prove the presence Late Jurassic Intra Draupne Formation sandstone sequence prognosed to overlie a Triassic section. Instead, the well drilled directly from a thin (6 m) Late Jurassic Draupne shale and 109 m into a tight sandstone sequence of Triassic or possibly Paleozoic age. No shows or indications of moveable hydrocarbons were observed in the well.

No cores were cut. No wire line logs were run. No fluid sample was taken.

The well was permanently abandoned on 10 July 2016 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]
710.00	2350.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
129	NORDLAND GP
461	UNDIFFERENTIATED
764	UTSIRA FM
886	HORDALAND GP
886	NO FORMAL NAME
915	SKADE FM

968	NO FORMAL NAME
1543	NO FORMAL NAME
1602	ROGALAND GP
1602	BALDER FM
1642	SELE FM
1668	LISTA FM
1756	VÅLE FM
1762	SHETLAND GP
1762	EKOFISK FM
1773	TOR FM
1840	HOD FM
1985	CROMER KNOLL GP
1985	RØDBY FM
2082	SOLA FM
2121	ÅSGARD FM
2235	VIKING GP
2235	DRAUPNE FM
2241	HEGRE GP
2241	SKAGERRAK FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - DIR PWD	129	702
LWD - DIR PWD GR RES SON CAL	702	2134
LWD - GR RES DEN NEU GEO PWD SON	2134	2350
LWD - GR RES PWD SON	129	700

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	219.0	36	224.0	0.00	
SURF.COND.	13 3/8	697.0	17 1/2	702.0	1.55	FIT
INTERM.	9 5/8	2128.0	12 174	2134.0	1.95	FIT
OPEN HOLE		2350.0	8 1/2	2350.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
129	1.49	16.0		Displacement mud	
700	1.49	16.0		Displacement mud	
700	1.34	16.0		Displacement mud	
702	1.49	16.0		Displacement mud	
702	1.09	13.0		INNOVERT OBM	
1013	1.14	17.0		INNOVERT OBM	
1157	1.17	16.0		INNOVERT OBM	
1380	1.24	16.0		INNOVERT OBM	
1594	1.29	18.0		INNOVERT OBM	
1902	1.29	19.0		INNOVERT OBM	
2134	1.29	18.0		INNOVERT OBM	
2134	1.19	16.0		KCL/Pol/GEM WBM	
2350	1.19	15.0		KCL/Pol/GEM WBM	