



General information

Wellbore name	16/10-5
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	16/10-5
Seismic location	inline1604 & xline 3075
Production licence	568
Drilling operator	Talisman Energy Norge AS
Drill permit	1414-L
Drilling facility	MÆRSK GIANT
Drilling days	53
Entered date	06.10.2012
Completed date	27.11.2012
Release date	27.11.2014
Publication date	02.06.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	43.2
Water depth [m]	83.5
Total depth (MD) [m RKB]	3034.0
Final vertical depth (TVD) [m RKB]	3034.0
Maximum inclination [°]	2.2
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	BRYNE FM
Geodetic datum	ED50
NS degrees	58° 0' 3.58" N
EW degrees	2° 7' 55.56" E
NS UTM [m]	6429296.51
EW UTM [m]	448698.86
UTM zone	31
NPDID wellbore	7021



Wellbore history

General

Well 16/10-5 was drilled on the Isbjørn prospect in the northern end of the Jæren High in the North Sea. The Isbjørn Prospect was mapped as a four-way dip-closure structure. The primary objective of the well was to test the hydrocarbon potential in the Late Jurassic Ula Formation sandstones.

Operations and results

Well 16/10-5 was spudded with the jack-up installation Mærsk Giant on 6 October 2012 and drilled to TD at 3034 m in the Middle Jurassic Bryne Formation. A 12 1/2" pilot hole was drilled from below the 30" conductor to 1057 m to check for shallow gas. No shallow gas was seen. Drilling of the 8-1/2" section was troubled with junk in the hole ending up with two additional clean-out runs; else, operations proceeded without significant problem. The well was drilled with seawater and sweeps down to 180 m, with KCl/GEM/Polymer mud from 180 m to 1057 m, and with Enviromul oil based mud from 1057 m to TD.

The well penetrated 98 m of radioactive Mandal Formation shales directly overlying the Ula Formation. The Ula formation came in at 2929 m, which was 65 m shallower than the prognosis. One hundred and six m of good quality sand was penetrated but it was water filled without shows and gas values were low. RCI pressure data points indicate a common formation water gradient, with no likely internal pressure barriers, for both Ula and Bryne Formations.

No conventional or sidewall cores were taken. The RCI tool was run for pressure points, but no fluid samples were taken. Maximum static temperatures was measured in the reservoir on wireline RCI run was 124 °C at 3039 m.

The well was permanently abandoned on 27 November 2012 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]
190.00	3034.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
127	NORDLAND GP
1115	HORDALAND GP



2040	ROGALAND GP
2040	BALDER FM
2049	SELE FM
2102	LISTA FM
2154	VÅLE FM
2171	SHETLAND GP
2171	EKOFISK FM
2212	TOR FM
2549	HOD FM
2685	BLODØKS FM
2689	HIDRA FM
2709	CROMER KNOLL GP
2709	RØDBY FM
2718	SOLA FM
2720	TUXEN FM
2753	ÅSGARD FM
2831	TYNE GP
2831	MANDAL FM
2929	VESTLAND GP
2929	ULA FM
3016	BRYNE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
ASP	1900	3020
DIR	180	1051
MWD - GR RES DIR	180	1057
MWD - GR RES SON DIR	1057	2630
MWD -GR RES DEN NEU SON DIR	2633	3034
RCI	2935	3029

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	180.0	30	180.0	0.00	
INTERM.	13 3/8	1048.0	17 1/2	1057.0	1.91	LOT
PILOT HOLE		1057.0	12 1/4	1057.0	0.00	



INTERM.	9 5/8	2607.0	12 1/4	2630.0	1.90	LOT
OPEN HOLE		3034.0	8 1/2	3034.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
190	1.19	21.0		KCl / Polymer / GEM	
455	1.22	22.0		KCl / Polymer / GEM	
1050	1.20	21.0		KCl / Polymer / GEM	
1057	1.20	20.0		KCl / Polymer / GEM	
1061	1.51	29.0		Enviormul Yellow	
2630	1.56	38.0		Enviromul Yellow	
2630	1.58	37.0		Enviromul Yellow	
2630	1.57	36.0		Enviromul Yellow	
3034	1.51	32.0		Enviromul Yellow	

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
7021 Formation pressure (Formasjonstrykk)	pdf	0.22

