



General information

Wellbore name	2/1-16 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	2/1-16
Seismic location	inline 7062 & xline 21494
Production licence	299
Drilling operator	Talisman Energy Norge AS
Drill permit	1445-L
Drilling facility	MÆRSK GIANT
Drilling days	64
Entered date	10.05.2013
Completed date	13.07.2013
Plugged and abandon date	13.07.2013
Release date	13.07.2015
Publication date	12.08.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	44.0
Water depth [m]	67.0
Total depth (MD) [m RKB]	3891.0
Final vertical depth (TVD) [m RKB]	3770.0
Maximum inclination [°]	34.8
Oldest penetrated age	LATE JURASSIC
Oldest penetrated formation	ULA FM
Geodetic datum	ED50
NS degrees	56° 51' 1.72" N
EW degrees	3° 18' 52.69" E
NS UTM [m]	6300926.97
EW UTM [m]	519190.97
UTM zone	31
NPDID wellbore	7180



Wellbore history

General

Well 2/1-16 S was drilled on the Frode prospect on the Sørvestlandet High south-west of the Gyda Field in the North Sea. The primary objective was to prove hydrocarbons in the Late Jurassic Ula Formation sandstones.

Operations and results

Wildcat well 2/1-16 S was spudded with the jack-up installation Mærsk Giant on 13 July 2013 and drilled to TD at 3891 m (3770 m TVD) in the Late Jurassic Ula Formation. A 12 -1/4" pilot hole was drilled with weighted WBM to approximately 844 m RKB. No shallow gas present. The well was drilled vertical down to 2420 m and deviated from there to TD. The well was drilled with seawater down to 144 m, with water based KCl mud from 144 m to 861 m, and with Innovert oil based mud from 861 m to TD.

A thick Ula reservoir sandstone with very good reservoir properties was penetrated at 3490 m, 22 m TVD deeper than prognosed. The reservoir was water wet with all pressure points through the Ula Formation on the same water gradient. No oil shows above the oil-based mud were recorded in the well.

No cores were cut. No fluid samples were taken.

The well was permanently abandoned on 13 July 2013 as a dry well.

Testing

No drill stem test was performed.

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
110	NORDLAND GP
110	UNDIFFERENTIATED
1702	HORDALAND GP
1702	NO FORMAL NAME
2237	VADE FM
2280	UNDIFFERENTIATED
2522	NO FORMAL NAME
2722	ROGALAND GP
2722	BALDER FM
2751	SELE FM
2798	FORTIES FM
2852	LISTA FM
2890	VIDAR FM



2988	VÅLE FM
2997	SHETLAND GP
2997	EKOFISK FM
3075	TOR FM
3294	CROMER KNOLL GP
3294	RØDBY FM
3295	SOLA FM
3296	TUXEN FM
3305	ÅSGARD FM
3434	TYNE GP
3434	MANDAL FM
3448	FARSUND FM
3490	ULA FM
3659	FARSUND FM
3701	ULA FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - GR RES DIR	144	861
MWD - GR RES SON DEN NEU DIR	3365	3891
MWD - GR RES SON DIR	864	3365
RCX	3543	3796
VSP	2100	3345

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	144.0	30	144.0	0.00	
PILOT HOLE		843.0	12 1/4	843.0	0.00	
SURF.COND.	20	853.0	24	861.0	1.69	LOT
INTERM.	13 3/8	2381.0	17 1/2	2389.0	1.88	LOT
INTERM.	9 5/8	3358.0	12 1/4	3365.0	1.84	FIT
OPEN HOLE		3891.0	8 1/2	3891.0	2.14	FIT

Drilling mud



Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
193	1.07	12.0		KCl GEM Polymer prem	
291	1.02			Sea Water	
398	1.60	39.0		ENVIRONMUL	
861	1.17	14.0		KCL GEM POLYMER	
1040	1.50	22.0		INNOVERT	
2257	1.69	39.0		INNOVERT	
2389	1.59	32.0		INNOVERT	
3365	1.69	40.0		INNOVERT	
3891	1.69	41.0		INNOVERT	