



General information

Wellbore name	2/8-18 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	2/8-18
Seismic location	GA3D-93R05 inline 1512 & xline 555
Production licence	440 S
Drilling operator	Faroe Petroleum Norge AS
Drill permit	1386-L
Drilling facility	MÆRSK GUARDIAN
Drilling days	51
Entered date	23.05.2012
Completed date	13.07.2012
Release date	13.07.2014
Publication date	09.12.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	43.0
Water depth [m]	69.0
Total depth (MD) [m RKB]	2852.0
Final vertical depth (TVD) [m RKB]	2662.0
Maximum inclination [°]	36.7
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	HIDRA FM
Geodetic datum	ED50
NS degrees	56° 22' 37.58" N
EW degrees	3° 22' 25.09" E
NS UTM [m]	6248253.07
EW UTM [m]	523076.52
UTM zone	31
NPDID wellbore	6747



Wellbore history

General

The 2/8-18 S well was drilled on the Clapton Prospect in the Feda Graben in the Norwegian North Sea. The main target was chalks of the Shetland Group, analogous to the nearby fields Eldfisk, Eldfisk East, Valhall and Ekofisk.

Operations and results

Wildcat well 2/8-18 S was spudded with the jack-up installation Mærsk Guardian on 23 May 2012 and drilled to TD at 2852 m ((2662 m TVD) in the Late Cretaceous Hydra Formation. It was drilled deviated to avoid shallow gas over the crest of the structure and to penetrate the steeply dipping reservoir at the right angle. The well was vertical down to 1506 m and built up to a sailing angle of ca 36 deg at 1900 m. The well was drilled with KCL/GEM mud down to 568 m and with oil based XP-07 mud from 568 m to TD.

Oil shows were encountered in the Utsira Formation at 870 m (869 m TVD), triggering a wire line acquisition programme to evaluate this reservoir. Pressure samples were acquired, proving a tight reservoir. Fluid sampling was not attempted. Petrophysical analysis concluded a low permeability siltstone reservoir with low oil saturation.

Formation tops came in as prognosed down to top Rogaland Group. In the Rogaland Group, the Lista Formation turned out to be significantly thinner than expected, and the Våle Formation was not present. The deviation is interpreted to be caused by a fault, offsetting the lower part of the Lista Formation and the Våle Formation. The main target in the Shetland Group / Ekofisk Formation was encountered at 2742 m (2567.8 m TVD) with oil shows. Coring was initiated, and two cores containing a total of 36 m of core was recovered. All the formations of the Shetland Group were significantly thinner than prognosed. The matrix properties of the reservoir were within the expected range, but devoid of any open fracture system that could enhance the producibility of the reservoir.

The two cores were taken in the Ekofisk and Tor formations and the first one-meter of the Hod Formation over the interval 2746 m to 2782 m with 100% recovery. No wire line logs were run in the Shetland Group, only MWD. No fluid samples were taken in the well.

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

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
230.00	2852.00

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	2746.0	2755.3	[m]
2	2755.3	2782.0	[m]

Total core sample length [m]	36.0
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
112	NORDLAND GP
870	UTSIRA FM
1606	HORDALAND GP
1606	NO FORMAL NAME
2480	NO FORMAL NAME
2685	ROGALAND GP
2685	BALDER FM
2695	SELE FM
2725	LISTA FM
2735	VÅLE FM
2742	SHETLAND GP
2742	EKOFISK FM
2771	TOR FM
2781	HOD FM
2838	BLODØKS FM
2841	HIDRA FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
GR NEU DEN CAL	500	1450
MWD LWD - DIR PWD	112	568
MWD LWD - DIR PWD GR RES	226	568
MWD LWD - DIR PWD GR RES	2743	2746
MWD LWD - DIR PWD GR RES DEN POR	2746	2852
MWD LWD - DIR PWD GR RES SON	568	2743



RDT	675	965
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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	218.0	36	226.0	0.00	
SURF.COND.	20	560.0	26	568.0	0.00	
INTERM.	13 3/8	1498.0	17 1/2	1498.0	0.00	
INTERM.	9 5/8	2739.0	12 1/4	2743.0	0.00	
OPEN HOLE		2852.0	8 1/2	2852.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
226	1.49	7.0		Spud mud	
455	1.19	9.0		Spud mud	
568	1.19	8.0		KCL/GEM/Polymer	
589	1.35	23.0		XP-07 OBM	
1506	1.48	23.0		OBM	
2510	1.70	33.0		OMB	
2539	1.48	30.0		OBM	
2560	1.70	32.0		OBM	
2746	1.64	30.0		OMB	
2835	1.64	30.0		XP-07	