



General information

Wellbore name	25/2-19 S
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	HUGIN
Discovery	25/2-10 S Hugin
Well name	25/2-19
Seismic location	MC3D-NVG11 Inline 26720-26680. Xline 13766-13746
Production licence	442
Drilling operator	Aker BP ASA
Drill permit	1671-L
Drilling facility	MAERSK INTERCEPTOR
Drilling days	16
Entered date	27.08.2017
Completed date	11.09.2017
Plugged date	08.10.2017
Plugged and abandon date	28.09.2017
Release date	11.09.2019
Publication date	10.09.2019
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	EOCENE
1st level with HC, formation	FRIGG FM
Kelly bushing elevation [m]	55.0
Water depth [m]	120.5
Total depth (MD) [m RKB]	2380.0
Final vertical depth (TVD) [m RKB]	2265.0
Maximum inclination [°]	33.3
Bottom hole temperature [°C]	77
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	SELE FM
Geodetic datum	ED50



NS degrees	59° 52' 28.37" N
EW degrees	2° 37' 45.61" E
NS UTM [m]	6637652.91
EW UTM [m]	479246.04
UTM zone	31
NPDID wellbore	8249

Wellbore history

General

Well 25/2-19 S is an appraisal of the 25/2-10 S Frigg GammaDelta discovery. Well 25/2-19 S was drilled in the south-west end of the Bjørgvin Arch in the North Sea, east of the 25/2-10 S GammaDelta. The primary objective was to evaluate the hydrocarbon potential in the Frigg Formation and to obtain fluid samples.

Operations and results

A 9 7/8" pilot hole was drilled down to 1102 m. No shallow gas or waterflow was observed.

Appraisal well 25/2-19 S was spudded with the jack-up installation Mærsk Interceptor on 27 August 2017 and drilled to TD at 2380 m in the Paleocene Sele Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1102 m and with EMS 4600 oil-based mud from 1102 m to TD.

Top Frigg Formation was encountered at 2100 m (1989.4 m TVD), with oil down to the OWC at 2114.5 m (2003 m TVD). The well was drilled with no returns to surface down to 1102 m. Below 1102 m there were no shows detected above the oil-based mud, apart from a questionable show in the oil-bearing Frigg reservoir. Oil mobility in the Frigg reservoir was confirmed by sampling.

No cores were cut. Twenty two samples were acquired with the MDT tool: three oil samples at 2101.2 m, five oil samples at 2104.3 m, three oil samples at 2107.2 m, five oil with traces of formation water samples at 2111.5 m, one water with traces of formation oil at 2113.0 m, and five water samples at 2114.4 m. Interval Pressure Transient Tests were conducted at all these depths except 2101.2 m due to probe being plugged at the end of the station.

The well was permanently abandoned on 11 September 2017 as an oil appraisal.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1110.00	2378.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
176	NORDLAND GP
493	UTSIRA FM
911	HORDALAND GP
911	SKADE FM
1063	HORDALAND GP
1140	UNDEFINED GP
1240	HORDALAND GP
1314	UNDEFINED GP
1370	HORDALAND GP
1422	UNDEFINED GP
1463	HORDALAND GP
2100	FRIGG FM
2176	HORDALAND GP
2276	ROGALAND GP
2276	BALDER FM
2348	SELE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
HNGS PEX MSIP OBMI ZAIT	1995	2380
MDT FRAC	2112	2112
MDT SAMP	2035	2114
MWD - GR NEU DEN RES PWD DT	175	2053
MWD - GR PWD	224	1102
MWD - GR RES DEN NEU SP CAL DT	2053	2380
XPT ADT MRX	2093	2382

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	22	214.2	26	224.0	0.00	



INTERM.	13 3/8	1091.0	17 1/2	1102.0	1.52	FIT
PILOT HOLE		1102.0	9 7/8	1102.0	0.00	
LINER	9 5/8	2047.0	12 1/4	2053.0	1.51	FIT
OPEN HOLE		2380.0	8 1/2	2380.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1303	1.34	38.0		EMS-4600 OBM	
2053	1.36	28.0		EMS-4600 OBM	
2148	1.22	25.0		EMS-4600 OBM	
2380	1.36	32.0		EMS-4600 OBM	
2380	1.24	24.0		EMS-4600 OBM	