General information

Wellbore name	34/2-5 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	34/2-5
Seismic location	MCNV. TAMPEN Phase 1 (CGG) Inline 5135. Xline 33362
Production licence	790
Drilling operator	Aker BP ASA
Drill permit	1684-L
Drilling facility	TRANSOCEAN ARCTIC
Drilling days	32
Entered date	28.02.2018
Completed date	31.03.2018
Release date	20.12.2019
Publication date	10.01.2020
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	24.0
Water depth [m]	389.0
Total depth (MD) [m RKB]	3680.0
Final vertical depth (TVD) [m RKB]	3617.0
Maximum inclination [°]	23.78
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	LUNDE FM
Geodetic datum	ED50
NS degrees	61° 45' 34.07'' N
EW degrees	2° 35' 9.34'' E
NS UTM [m]	6847618.27
EW UTM [m]	478140.23
UTM zone	31
NPDID wellbore	8335

Wellbore history

General

Well 34/2-5 S was drilled to test the Raudåsen prospect on Tampen Spur in the North Sea. The primary objective was to test the hydrocarbon potential in Late Triassic to Early Jurassic sandstones of the Statfjord Group and Lunde Formation.

Operations and results

Wildcat well 34/2-5 S was spudded with the semi-submersible installation Transocean Arctic on 28 February 2018 and drilled to TD at 3680 m in the Late Triassic Lunde Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 473.5 m, with bentonite/KCl mud from 473.5 to 906 m, with EMS 4600 oil-based mud from 906 m to 3389 m, and with WARP oil-based mud from 3389 m to TD.

Top Statfjord Group was penetrated from 3451 m (3387.8 m TVD) to top Lunde Formation at 3568 m (3504.8 m TVD) The whole of Statfjord and Lunde to TD consist of interbedded sandstone, siltstone and Claystone, with rare beds of Coal and carbonaceous Claystone in the Statfjord Formation. Net/gross reservoir is calculated to 0.61 in Statfjord and 0.44 in Lunde, with 19% average porosity for both. Pore pressure was measured on LWD stethoscope and showed water gradients in both Statfjord and Lunde, but with different pressure regimes in Statfjord and Lunde. There were no oil shows above the OBM in the well.

Due to dry well no cores were cut. No wire line logs were run, and no fluid sample was taken.

The well was permanently abandoned on 31 March 2018 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]
480.00	3680.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
412	NORDLAND GP
412	UNDIFFERENTIATED
1290	UTSIRA FM

1464	HORDALAND GP
1464	UNDIFFERENTIATED
1553	GRID FM
1573	UNDIFFERENTIATED
1882	ROGALAND GP
1882	BALDER FM
1915	SELE FM
1962	LISTA FM
2000	SHETLAND GP
2000	JORSALFARE FM
2198	KYRRE FM
3247	TRYGGVASON FM
3370	CROMER KNOLL GP
3370	RØDBY FM
3389	SOLA FM
3396	MIME FM
3407	DUNLIN GP
3451	STATFJORD GP
3568	HEGRE GP
3568	LUNDE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - DIR PWD GR RES	473	2068
LWD - DIR PWD GR RES D N S FPWD	3389	3680
LWD - DIR PWD GR RES DEN NEU SON	2068	3389

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	473.5	36	473.5	0.00	
SURF.COND.	20	898.0	26	906.0	1.45	FIT
INTERM.	13 5/8	2049.0	17 1/2	2068.0	1.72	FIT
LINER	9 5/8	3387.0	12 1/4	3389.0	2.08	FIT
OPEN HOLE		3680.0	8 1/2	3680.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
730	1.24			CMC based WBM	
850	1.29	15.0		EMS 4600	
906	1.29	27.0		EMS-4600	
906	1.29			CMC based WBM	
1933	1.35	27.0		EMS-4600	
2068	1.37	28.0		EMS-4600	
2068	1.49	32.0		EMS-4600	
2400	1.37	28.0		EMS 4600	
2512	1.53	31.0		EMS-4600	
3349	1.62	33.0		EMS-4600	
3389	1.80	37.0		Warp	
3389	1.64	38.0		EMS-4600	
3481	1.79	35.0		Warp	
3680	1.79	35.0		Warp	
3680	1.79	41.0		Warp	