Generell informasjon

Brønnbane navn	34/2-5 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	34/2-5
Seismisk lokalisering	MCNV. TAMPEN Phase 1 (CGG) Inline 5135. Xline 33362
Utvinningstillatelse	790
Boreoperatør	Aker BP ASA
Boretillatelse	1684-L
Boreinnretning	TRANSOCEAN ARCTIC
Boredager	32
Borestart	28.02.2018
Boreslutt	31.03.2018
Frigitt dato	20.12.2019
Publiseringsdato	10.01.2020
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	389.0
Totalt målt dybde (MD) [m RKB]	3680.0
Totalt vertikalt dybde (TVD) [m RKB]	3617.0
Maks inklinasjon [°]	23.78
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	LUNDE FM
Geodetisk datum	ED50
NS grader	61° 45' 34.07'' N
ØV grader	2° 35' 9.34'' E
NS UTM [m]	6847618.27
ØV UTM [m]	478140.23
UTM sone	31
NPDID for brønnbanen	8335

Brønnhistorie

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.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
480.00	3680.00

Borekaks tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
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

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [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

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
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	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
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	