



Generell informasjon





Brønnbane navn	35/4-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	35/4-3
Seismisk lokalisering	T01304MR01 inline: 3047. xline 3324
Utvinningstillatelse	685
Boreoperatør	Aker BP ASA
Boretillatelse	1883-L
Boreinnretning	DEEPSEA NORDKAPP
Boredager	40
Borestart	08.04.2022
Boreslutt	17.05.2022
Plugget dato	17.05.2022
Frigitt dato	01.11.2022
Publiseringsdato	01.11.2022
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	32.7
Vanndybde ved midlere havflate [m]	399.0
Totalt målt dybde (MD) [m RKB]	4707.0
Totalt vertikalt dybde (TVD) [m RKB]	4707.0
Maks inklinasjon [°]	3.75
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	COOK FM
Geodetisk datum	ED50
NS grader	61° 40' 18.9" N
ØV grader	3° 7' 9.31" E
NS UTM [m]	6837801.59
ØV UTM [m]	506313.51
UTM sone	31
NPDID for brønnbanen	9525



Brønnhistorie

General

Well 35/4-3 was drilled to test the Laushornet in on Tampen Spur in the North Sea. The primary objective was to test the hydrocarbon potential in the Early Jurassic Cook Formation. The well was a drilled as High-Pressure High-Temperature well.

Operations and results

A Pilot hole 35/4-U-2 was spudded on 7 April and drilled to TD at 1163 m to check for shallow gas. No shallow gas was encountered.

Wildcat well 35/4-3 was spudded with the semi-submersible installation Deepsea Nordkapp on 8 April 2022 and drilled to TD at 4707 m in the Early Jurassic Cook Formation. Operations proceeded without significant problems. The only incident was a water-influx in the Cook Formation, which was killed with the drillers method. The well was drilled with seawater and hi-vis pills down to 1163 m, and with BARA ECD oil-based mud from 1163 m to TD.

The well encountered Cook Formation sandstone at 4412.7 m, 103 meter shallower than prognosis. The overlying Drake Formation shales, which had lower seismic velocities than expected, caused most of the deviation. The Cook-reservoir had much better quality than anticipated but was water-wet. There were no oil shows above the oil-based mud in the well. The most positive hydrocarbon indications were high gas readings in the interval 2510 2540 m in claystones in the Cretaceous Kyrre Formation, and hydrocarbons in side-wall core fluid inclusions in the Cook Formation at 4416 m, 4575 m, and 4617 m.

No conventional cores were cut. No fluid sample was taken.

The well was permanently abandoned on 17 May 2022 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1170.00	4707.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
432	NORDLAND GP
432	UNDIFFERENTIATED
575	UNDIFFERENTIATED



1374	HORDALAND GP
1374	UNDIFFERENTIATED
1689	NO FORMAL NAME
1901	ROGALAND GP
1901	BALDER FM
1939	SELE FM
1949	LISTA FM
2053	VÅLE FM
2063	SHETLAND GP
2063	JORSALFARE FM
2224	KYRRE FM
3351	TRYGGVASON FM
3742	BLODØKS FM
3760	SVARTE FM
3998	CROMER KNOLL GP
3998	NO FORMAL NAME
4022	SOLA FM
4055	ÅSGARD FM
4100	VIKING GP
4100	DRAUPNE FM
4116	HEATHER FM
4277	BRENT GP
4277	RANNOCH FM
4427	DUNLIN GP
4427	DRAKE FM
4614	COOK FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - DIR GR RES	431	1163
LWD - GR DIR DEN NEU RES PWD FPW	4146	4707
LWD - GR DIR DEN NEU RES PWD SON	3088	4146
LWD - GR DIR RES PWD SON	1163	3088
QAIT HLDS APS HXPT GR	4103	4697
VSP	431	4694
XLR	4315	4695



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	506.8	36	509.5	0.00	
INTERM.	20	1156.2	26	1163.0	1.61	LOT
INTERM.	13 3/8	3081.5	16 1/2	3088.0	1.88	LOT
INTERM.	9 7/8	4140.0	12 1/4	4146.0	2.19	FIT
OPEN HOLE		4707.0	8 1/2	4707.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
453	1.39		5.0	Water	
509	1.03		11.4	Water	
1050	1.39		5.7	Synthetic	
1050	1.03			Water	
1163	1.39		11.4	Water	
1163	1.39		4.7	Synthetic	
3502	1.63		7.1	Synthetic	
4144	1.64		7.6	Synthetic	
4146	1.64		7.6	Synthetic	
4146	1.92		6.2	Oil	
4178	1.92		6.2	Synthetic	
4481	1.93		5.7	Synthetic	
4617	1.92		6.2	Synthetic	
4617	1.96		7.6	Synthetic	
4705	1.98		3.3	Synthetic	
4707	2.00		9.5	Synthetic	