



Generell informasjon

Brønnbane navn	25/2-21
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	25/2-21 (Liatårnet)
Brønn navn	25/2-21
Seismisk lokalisering	Line ABP18306-03407. SP 1175
Utvinningstillatelse	442
Boreoperatør	Aker BP ASA
Boretillatelse	1774-L
Boreinnretning	DEEPSEA STAVANGER
Boredager	13
Borestart	02.07.2019
Boreslutt	14.07.2019
Plugget og forlatt dato	14.07.2019
Frigitt dato	14.07.2021
Publiseringsdato	10.11.2021
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EARLY MIOCENE
1. nivå med hydrokarboner, formasjon.	SKADE FM
Avstand, boredekk - midlere havflate [m]	30.0
Vanndybde ved midlere havflate [m]	110.0
Totalt målt dybde (MD) [m RKB]	1200.0
Totalt vertikalt dybde (TVD) [m RKB]	1200.0
Eldste penetrerte alder	OLIGOCENE
Eldste penetrerte formasjon	HORDALAND GP
Geodetisk datum	ED50
NS grader	59° 52' 27.11" N
ØV grader	2° 27' 30.88" E
NS UTM [m]	6637679.76



ØV UTM [m]	469684.85
UTM sone	31
NPDID for brønnbanen	8814

Brønnhistorie

General

Well 25/2-21 is the replacement well for 25/2-20, which was junked due to stuck pipe. It was drilled to test the shallow Liatårnet Prospect in the Fensal Sub-basin east of the Frigg Field in the North Sea. The primary objective was to prove hydrocarbons in the Early Miocene Skade Formation ("Liatårnet sand").

Operations and results

Wildcat well 25/2-21 was spudded with the semi-submersible installation Deepsea Stavanger on 1 July 1919 and drilled to TD at 1200 m in the Late Oligocene sediments in the Hordaland Group. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 987 m and with KCl water-based mud from 987 m to TD.

Massive Utsira Formation sands were penetrated from at 280 m to 1012.5 m. An 11-meter thick claystone sequence capped the main Liatårnet sand, which was encountered at 1023.5 m. The Liatårnet sand was 28 m vertically thick and hydrocarbon bearing. The entire reservoir was cored and logged. Formation pressure tests in the sands gave a gradient range between 0.8 – 0.9 g/cc. The shallowest oil show in the well is described in thin sandstones at 1018 m, in thin sandstone stringers within the cap rock claystone over the Liatårnet sands. Strong oil shows with fluorescence, cut, stain and bleeding oil were seen throughout the Liatårnet oil-bearing sand to its base at 1052 m.

There were no shows below 1052 m. No fluid contacts could be established. A deeper sand penetrated from 1098 to 1010 m was water-bearing with a clear water gradient.

Three cores were cut. Core 1 was cut from 1024.8 to 1042.4 m with 96.3% recovery. Cores 2 and 3 were cut from 1042.7 to 1060.8 m with 100% recovery. Despite several attempts to take an MDT fluid sample, only one bottle was filled during sampling in run 1E at 1025.5 m. Schlumberger Saturn probe was used during this sampling. One 420 cc MPSR bottle were filled after major troubles with sand infill in lines and pump. MPSR bottle was sent to Stratum Reservoir laboratories for analysis. After major challenges in opening the MPSR bottle, pressure was bled of and content was proved to be a slurry of sand and oil. In addition, a small quantity of oil was drained from the cores on the rig. Onshore analyses proved a biodegraded, heavy oil.

The well was permanently abandoned on 15 July 2019 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
991.00	1200.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1025.8	1041.8	[m]
2	1042.7	1046.4	[m]
3	1046.4	1060.8	[m]

Total kjerneprøve lengde [m]	34.0
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
991.0	[m]	C	PETROSTR
1003.0	[m]	C	PETROS
1012.0	[m]	C	PETROS
1024.0	[m]	C	PETROS
1025.6	[m]	C	PETROS
1028.9	[m]	C	PETROS
1030.9	[m]	C	PETROS
1046.5	[m]	C	PETROS
1049.8	[m]	C	PETROS
1050.6	[m]	C	PETROS
1052.6	[m]	C	PETROS
1053.9	[m]	C	PETROS
1057.1	[m]	C	PETROS
1059.8	[m]	C	PETROS
1069.0	[m]	C	PETROS
1087.0	[m]	C	PETROS
1105.0	[m]	C	PETROS
1123.0	[m]	C	PETROS
1144.0	[m]	C	PETROS
1168.0	[m]	C	PETROS
1195.0	[m]	C	PETROS
1200.4	[m]	C	PETROS



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
141	NORDLAND GP
280	UTSIRA FM
1013	HORDALAND GP
1024	NO FORMAL NAME
1052	UNDIFFERENTIATED

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI PPC MSIP HRLA PEX HNGS GR	921	1200
FTNG	1035	1035
IBC CBL	153	986
LWD - DI	140	206
LWD - GR RES PWD SON	206	986
LWD - RES PWD GR NEU DEN SON	986	1200
MDT	1025	1107
XPT NEXT MRX GR	1003	1172

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	36	203.0	42	206.4	0.00	
SURF.COND.	9 5/8	984.0	12 1/4	987.0	1.36	FIT
OPEN HOLE		1024.8	8 1/2	1024.8	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
300	1.03			Water	
300	1.10			Water	
987	1.20			Water	
1042	1.20			Water	
1200	1.20			Water	



1200	1.21			Water	
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