



## **General information**





Wellbore name	25/2-21
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	<a href="#">link to press release</a>
Factmaps in new window	<a href="#">link to map</a>
Main area	NORTH SEA
Discovery	<a href="#">25/2-21 (Liatårnet)</a>
Well name	25/2-21
Seismic location	Line ABP18306-03407. SP 1175
Production licence	<a href="#">442</a>
Drilling operator	Aker BP ASA
Drill permit	1774-L
Drilling facility	<a href="#">DEEPSEA STAVANGER</a>
Drilling days	13
Entered date	02.07.2019
Completed date	14.07.2019
Plugged and abandon date	14.07.2019
Release date	14.07.2021
Publication date	10.11.2021
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	EARLY MIOCENE
1st level with HC, formation	SKADE FM
Kelly bushing elevation [m]	30.0
Water depth [m]	110.0
Total depth (MD) [m RKB]	1200.0
Final vertical depth (TVD) [m RKB]	1200.0
Oldest penetrated age	OLIGOCENE
Oldest penetrated formation	HORDALAND GP
Geodetic datum	ED50
NS degrees	59° 52' 27.11" N
EW degrees	2° 27' 30.88" E
NS UTM [m]	6637679.76
EW UTM [m]	469684.85
UTM zone	31
NPDID wellbore	8814



## Wellbore history

### 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 2019 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.

## Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
991.00	1200.00

Cuttings available for sampling?	YES
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**Cores at the Norwegian Offshore Directorate**

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1025.8	1041.8	[m ]
2	1042.7	1046.4	[m ]
3	1046.4	1060.8	[m ]

Total core sample length [m]	34.0
Cores available for sampling?	YES

**Palynological slides at the Norwegian Offshore Directorate**

Sample depth	Depth unit	Sample type	Laboratory
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

**Lithostratigraphy**



Top depth [mMD RKB]	Lithostrat. unit
141	<a href="#">NORDLAND GP</a>
280	<a href="#">UTSIRA FM</a>
1013	<a href="#">HORDALAND GP</a>
1024	<a href="#">NO FORMAL NAME</a>
1052	<a href="#">UNDIFFERENTIATED</a>

**Logs**

Log type	Log top depth [m]	Log bottom depth [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

**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	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	

**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
300	1.03			Water	
300	1.10			Water	
987	1.20			Water	
1042	1.20			Water	
1200	1.20			Water	
1200	1.21			Water	

