

**General information**

Wellbore name	25/2-22 S
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Discovery	25/2-21 (Liatårnet)
Well name	25/2-22
Seismic location	CGG 18M01 inline 4711 / xline 16626
Production licence	442
Drilling operator	Aker BP ASA
Drill permit	1807-L
Drilling facility	DEEPSEA NORDKAPP
Drilling days	25
Entered date	23.03.2021
Completed date	24.08.2021
Plugged and abandon date	15.11.2021
Release date	24.08.2023
Publication date	12.09.2023
Purpose - planned	APPRAISAL
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	33.0
Water depth [m]	111.0
Total depth (MD) [m RKB]	1805.0
Final vertical depth (TVD) [m RKB]	1800.0
Maximum inclination [°]	6.2
Oldest penetrated age	EOCENE
Oldest penetrated formation	HORDALAND GP
Geodetic datum	ED50
NS degrees	59° 52' 51.35" N
EW degrees	2° 28' 0.51" E
NS UTM [m]	6638425.90
EW UTM [m]	470151.72
UTM zone	31
NPDID wellbore	8990



Wellbore history

General

Well 25/2-22 S was drilled to appraise the 25/2-21 Liat rnet discovery in the Early Miocene Skade Formation. The primary objective was to collect fluid samples and clarify the oil-water contact. A secondary objective was to collect data for NOAKA development by extending the well to 1800 m (760 m below the Skade reservoir).

Operations and results

Appraisal well 25/2-22 S was spudded with the semi-submersible installation Deepsea Nordkapp on 23 March 2021 and drilled to TD at 1805 m (1800 m TVD) m in Eocene claystone in the Hordaland Group. The well was drilled in two phases, with top hole operations carried out in DP mode in March 2021. Following setting of the 20" casing, the well was suspended on 27 March to allow the rig to conduct exploration drilling operations in the Barents Sea. Upon return of the rig, the well was re-entered on 3 August 2021 and operations concluded on 23 August 2021. Operations proceeded without problems. The well was drilled with seawater down to 180 m, with KCl/Gel/polymer mud from 180 m to 827 m, and with Innovert oil-based mud from 827 m to TD.

The Liat rnet sands were found to be 31 m vertically thick, as prognosed, but with hydrocarbons only in the uppermost 4 meters. The OWC was defined at 1042.0 m (1039.4 m TVD) based on core analysis, wireline logs and pressure gradient interpretation. This is shallower than the ODT in the 25/2-21 and 25/2-10 S wells. Visible oil staining, fluorescence and cut was described from 1039.7 to 1045 m, else no oil shows are described in the well.

The entire caprock and reservoir was wireline logged and six cores were cut in succession from 1006 m to 1078.2 m with recoveries between 96.7% to 100%. RDT fluid samples were taken at 1017.44 m (water), 1038.01 m (oil and mud), 1039.49 m (oil and mud), 1040 m (oil and mud), and 1054.03 m (water). The oil samples were all heavily contaminated with oil-based mud.

The well was permanently abandoned on 23 August 2021 as a well with strong shows.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
829.00	1805.00

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	1006.0	1032.3	[m]
2	1033.0	1042.0	[m]
3	1042.0	1050.9	[m]
4	1051.0	1060.2	[m]
5	1060.2	1069.1	[m]
6	1069.2	1077.9	[m]

Total core sample length [m]	71.0
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
144	NORDLAND GP
144	UNDIFFERENTIATED
285	UTSIRA FM
608	HORDALAND GP
608	SKADE FM
1069	UNDIFFERENTIATED
1530	NO FORMAL NAME

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CRSWC	1043	1505
CRSWC	1075	1760
GR SI8 CAL OBM MI AC EAS FP	1030	1770
GR SON IM8 CAL OBM AC	821	1194
LWD - GR CAL PWD DIR RES DEN NEU	1078	1203
LWD - GR CAL PWD DIR RES DEN NEU	1203	1805
LWD - GR RES DIR	210	827
LWD - NBGR NBRES DIR PWD	830	1006
MF OBM IFS	1030	1113
MF OBM IFS	1039	1775
RDT GP FF OP	1039	1040



RDT GP FF OP DP	1037	1044
RDT GP FP FF OP DP	1004	1160
RSWC	1038	1040
RSWC	1038	1041
SGR ECS NEU DEN RES NMR	821	1194

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	205.7	36	210.2	0.00	
INTERM.	20	821.6	26	830.0	1.40	FIT
OPEN HOLE		1805.0	8 1/2	1805.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
142	1.03			Water	
710	1.03		1.0	Water	
827	1.30		23.0	Water	
830	1.10		6.2	Synthetic	
1805	1.14		9.5	Synthetic	