

**General information**

Wellbore name	25/4-13 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	ALVHEIM
Discovery	25/4-3 (Gekko)
Well name	25/4-13
Seismic location	DN15M01. IL 19552. XL 9026
Production licence	203
Drilling operator	Aker BP ASA
Drill permit	1703-L
Drilling facility	DEEPSEA STAVANGER
Drilling days	11
Entered date	29.09.2018
Completed date	09.10.2018
Plugged and abandon date	09.10.2018
Release date	09.10.2020
Publication date	19.10.2020
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL/GAS
Discovery wellbore	NO
1st level with HC, age	PALEOCENE
1st level with HC, formation	HEIMDAL FM
Kelly bushing elevation [m]	30.0
Water depth [m]	121.0
Total depth (MD) [m RKB]	2641.0
Final vertical depth (TVD) [m RKB]	2190.0
Maximum inclination [°]	52.2
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	HEIMDAL FM
Geodetic datum	ED50
NS degrees	59° 30' 39.23" N
EW degrees	2° 4' 28.86" E
NS UTM [m]	6597460.60



EW UTM [m]	447626.56
UTM zone	31
NPDID wellbore	8486

Wellbore history

General

Well 25/4-13 A is a geological side-track to 25/4-13 S. The well was drilled to appraise the 25/4-3 Gekko discovery in the Vana Sub-basin in the North Sea. The primary objective was to confirm continuation of reservoir and hydrocarbons in the northern part of the Gekko structure.

Operations and results

Appraisal well 25/4-13 A was kicked off at 941 m in mainwell 25/4-13 S. The well was drilled with the semi-submersible installation Deepsea Bergen to TD at 2641 m (2190 m TVD) m in the Paleocene Heimdal Formation. Operations proceeded without significant problems. The well was drilled with Innovert oil-based mud from kick-off to TD.

Top of the target Heimdal Formation was penetrated at 2541 m (2104 m TVD). The Heimdal sands contained oil and gas but showed a more heterogenous character than in the southern part of Gekko, in well 25/4-13 S. The gas-oil contact was found at 2573.2 m (2131.6 m TVD) based on pressure gradient data, and the oil-water contact at 2582 m (2138 m TVD).

No oil shows are described in the well due to masking by the oil-based mud.

No cores were cut. Fluid samples were taken on wire line with the RDT tool at 2551 m (gas), 2577.02 m (oil), and 2580.07 m (oil). The oil samples were generally of high quality, with an OBM contamination of around 1%, while the gas sample had a contamination in the range 2-6%. Oil analysis show a density of 0.7084 g/cm³ and viscosity of 0.64cP at bubble-point.

The well was permanently abandoned on 9 October 2018 as an oil and gas appraisal well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
970.00	2641.00

Cuttings available for sampling?	YES
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Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
151	NORDLAND GP
151	NO FORMAL NAME
364	UTSIRA FM
785	HORDALAND GP
785	NO FORMAL NAME
1284	GRID FM
1325	NO FORMAL NAME
2294	ROGALAND GP
2294	BALDER FM
2431	SELE FM
2493	LISTA FM
2541	HEIMDAL FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
GR RDT	2456	2641
MCI XSI	2456	2641
MWD LWD - GR RES PWD NEU DEN SON	945	2456
MWD LWD - GR RES PWD NEU SON FP	2456	2641
NGRT DSN SDL HDFT MRIL GEM	2456	2641

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
INTERM.	9 5/8	2455.0	12 1/4	2456.0	1.60	FIT
OPEN HOLE		2641.0	8 1/2	2641.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
959	1.36			Oil	
2080	1.37			Oil	



2456	1.37			Oil	
2641	1.37			Oil	