General information

Wellbore name	24/9-15 S
Type	EXPLORATION
Purpose	WILDCAT
Status	PLUGGED
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Discovery	24/9-15 S (Froskelår Nordøst)
Well name	24/9-15
Seismic location	D0-06. SP462
Production licence	340
Drilling operator	Aker BP ASA
Drill permit	1751-L
Drilling facility	SCARABEO 8
Drilling days	21
Entered date	29.03.2019
Completed date	18.04.2019
Plugged date	18.04.2019
Release date	18.04.2021
Publication date	30.04.2021
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	EOCENE
1st level with HC, formation	HORDALAND GP
Kelly bushing elevation [m]	34.0
Water depth [m]	119.0
Total depth (MD) [m RKB]	4310.0
Final vertical depth (TVD) [m RKB]	1934.0
Oldest penetrated age	EOCENE
Oldest penetrated formation	HORDALAND GP
Geodetic datum	ED50
NS degrees	59° 20' 29.04'' N
EW degrees	1° 49' 55.35'' E
NS UTM [m]	6578803.03
EW UTM [m]	433562.43
UTM zone	31
NPDID wellbore	8675

Wellbore history

General

Well 24/9-15 S was drilled to test the Froskelår North East Prospect in the Vana Sub-basin in the North Sea. The primary objective was to evaluate the hydrocarbon potential in Intra-Hordaland Group injectite sands.

Operations and results

Wildcat well 24/9-15 S was part of a compound well consisting of exploration well bores and development well bores. The compound well was drilled with the mother bore, 24/9-M-4 Y1H, initially drilled to 13⅜" casing point in the Hordaland Group. From this depth the planned exploration wells, 24/9-15 S, ST2 & A, were drilled before operations to drill the Frosk Test Producers recommenced.

Wildcat well 24/9-15 S was kicked off below the 13⅜" casing shoe at 1818 m in 24/9-M-4 Y1H on 29 March 2019. It was drilled with the semi-submersible installation Scarabeo 8 to TD at 4310 m (1900 m TVD) m in the Hordaland Group. Drilling problems required the well to be plugged back. A technical side-track, 24/9-15 ST2, was kicked off from 1838 m and successfully drilled to planned TD at 4310 m (1900m TVD). The well was drilled deviated with inclination between 50° and 84°. It was drilled with Innovert oil-based mud from kick-off to TD.

A total oil column of 49 m TVD was observed in 24/9-15 S and ST2, in an injectite sand complex with top at 3900 m (1821 m TVD). Average porosity was 32% with an 18% net/gross in the pay zone. A sharp oil-water contact (OWC) was seen on the logs at 4077 m (1870 m TVD) in the uppermost part of a massive sand. Pressure data indicated the contact could be up to 7 m TVD deeper. There were no shows above OBM throughout the well.

No cores were cut. No fluid sample was taken. The HRH SPECTRA gas monitoring system was run on rig to detect hydrocarbons and fluid type.

The well was plugged back for side-tracking on 18 April 2019. It is classified 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]
1820.00	4067.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
153	NORDLAND GP
153	UNDIFFERENTIATED
327	UTSIRA FM
518	HORDALAND GP
518	SKADE FM
781	UNDIFFERENTIATED
1318	GRID FM
1737	UNDIFFERENTIATED
4007	NO FORMAL NAME

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - GR DIR RES PWD NEU DEN IDS	1821	4074

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
OPEN HOLE		1821.0	9 1/2	4063.0	0.00	
OPEN HOLE		1838.0	9 1/2	4310.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1818	1.37			Oil	
1825	1.38			Oil	
2707	1.38			Oil	
3336	1.38			Oil	
4073	1.42			Oil	
4073	1.38			Oil	
4194	1.39			Oil	
4310	1.39			Oil	