

**General information**

Wellbore name	6607/12-4 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Discovery	6607/12-4 (Alve Nordøst)
Well name	6607/12-4
Seismic location	ABP17M01. XL-4687 ABP17M01 IL-10461
Production licence	127 C
Drilling operator	Aker BP ASA
Drill permit	1826-L
Drilling facility	DEEPSEA NORDKAPP
Drilling days	17
Entered date	14.10.2020
Completed date	30.10.2020
Plugged and abandon date	30.10.2020
Release date	30.10.2022
Publication date	30.10.2022
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	LATE CRETACEOUS
1st level with HC, formation	LANGE FM
Kelly bushing elevation [m]	32.7
Water depth [m]	362.0
Total depth (MD) [m RKB]	3350.0
Final vertical depth (TVD) [m RKB]	3142.0
Maximum inclination [°]	44.2
Bottom hole temperature [°C]	113
Oldest penetrated age	EARLY CRETACEOUS
Oldest penetrated formation	LANGE FM
Geodetic datum	ED50
NS degrees	66° 3' 39.79" N
EW degrees	7° 59' 5.89" E
NS UTM [m]	7327273.01



EW UTM [m]	454040.67
UTM zone	32
NPDID wellbore	9078

Wellbore history

General

Well 6607/12-4 A is a geological side-track to well 6607/12-4, which tested the Alve North-East prospect on the Revfallet Fault Complex in the Norwegian Sea. Well 6607/12-4 found gas in the Middle Jurassic Fangst Group and oil in Turonian age sandstones in the Lange Formation. The objective of the 6607/12-4 A side-track was to prove additional volumes in the Lange Formation and investigate the possible connection to 6607/12-2 S Alve N.

Operations and results

Appraisal well 6607/12-4 A was kicked off from 2289 m in 6607/12-4 on 14 October 2020. It was drilled with the semi-submersible installation Deepsea Nordkapp to TD at 3350 m (3142 m TVD) m in the Late Cretaceous section (Turonian age) of the Lange Formation. Operations proceeded without significant problems. The well was drilled with BaraECD oil-based mud from kick-off to TD.

In 6607/12-4 A the Lange sands were penetrated from 3179 to 3280.3 m (3015.4 to 3090.2 m TVD). The same oil-bearing Lange sands as in 6607/12-4 were encountered, with 'oil-down-to' recorded in all four zones in both wells. Pressure points indicate communication with one of the Lange sands in well 6607/12-2 S Alve N. The only shows observed above OBM in well 6607/12-4 A was on the core in the oil-bearing Lange sands.

One core was cut from 3227.2 m to 3263.2 m across the Lange sands. Wire line RDT fluid samples were taken at 3240.3 m (oil) and 3245.4 m (oil) in the Lange sands.

The well was permanently abandoned on 13 October 2020 as an oil 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]
2310.00	3350.00

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	3227.2	3262.9	[m]

Total core sample length [m]	35.7
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
2289	SHETLAND GP
2289	NISE FM
2495	KVITNOS FM
2954	CROMER KNOLL GP
2954	LYSING FM
2974	LANGE FM
3179	UNDIFFERENTIATED
3236	UNDIFFERENTIATED
3254	UNDIFFERENTIATED
3277	UNDIFFERENTIATED

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - RSS NBR GR RES PWD	2302	3350
RWCH FPS EFS EPS FLID MCS	3279	3020
XMR CSNG DSNT SDLT IDT MCI	2289	3350

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		3350.0	12 1/4	3350.0	0.00	

Drilling mud



Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
2302	1.52		6.7	Oil	
3350	1.54		6.7	Oil	
3350	1.03		1.0	Water	
4160	1.52		9.5	Oil	