

**General information**

Wellbore name	6608/6-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Well name	6608/6-1
Seismic location	132710V02
Production licence	762
Drilling operator	Aker BP ASA
Drill permit	1772-L
Drilling facility	DEEPSEA STAVANGER
Drilling days	24
Entered date	19.07.2019
Completed date	11.08.2019
Plugged and abandon date	11.08.2019
Release date	23.11.2020
Publication date	30.04.2021
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	30.0
Water depth [m]	288.0
Total depth (MD) [m RKB]	2754.0
Final vertical depth (TVD) [m RKB]	2753.0
Oldest penetrated age	PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	66° 30' 2.69" N
EW degrees	8° 56' 19.24" E
NS UTM [m]	7375915.92
EW UTM [m]	497271.33
UTM zone	32
NPDID wellbore	8777



Wellbore history

Well 6608/6-1 (Vågar) is located on the Rødøy High, Northern Nordland Ridge, approximately 60 km North East of the Norne Field. The primary objective of the well was to act as a player opener for the Permian Carbonate Play in the Norwegian Sea. The Vågar Prospect, defined by the Upper Permian unconformity (UPU), is a structural trap formed by a prominent horst block protruding from the Nordland Ridge northwards into the deep Træna Basin with Karstified Permian carbonates as reservoir.

Operations and results

Well 6608/6-1 was entered with the drilling rig Deepsea Stavanger on 19 July 2019 and drilled to TD at 2754 m (2752.8 m TVD) in the Permian Zechstein Group. The well was drilled down to 1415 m with seawater and Hi-Vis sweeps and from 1415 m to TD with water-based mud.

The Top Zechstein reservoir was encountered at 2468 m (2437.8 m TVD MSL), slightly shallower than prognosed. The reservoir consists of predominantly crystalline dolostone/dolomite with limestone. No hydrocarbon shows were encountered. The reservoir was tight with an average porosity of 3 %. MDT fluid samples were taken at 2476 m (2445.8 m TVD MSL, water) and 2478 m (2447.8 m TVD MSL, water).

The well was permanently plugged and abandoned on 11 August 2019 as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1420.00	2754.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
318	NORDLAND GP



347	NAUST FM
1500	KAI FM
1589	HORDALAND GP
1589	BRYGGE FM
1659	ROGALAND GP
1659	TARE FM
1810	TANG FM
1867	SHETLAND GP
1867	SPRINGAR FM
1960	NISE FM
2242	KVITNOS FM
2468	ZECHSTEIN GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMI PPC MSIP HRLA PEX HNGS GR	2452	2752
IBC GR	0	0
IBL CBL GR	1638	2408
LWD - DIR PWD	370	1415
LWD - GR RES DEN NEU DIR SON PWD	1415	2456
LWD - PWD GR RES DEN CAL NEU DIR	2456	2754
MDT XPT	2474	2739
MRX NEXT CMR ADT XPT	2452	2752
XLR	2458	2747
ZOVSP	290	2164

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	367.5	36	370.0	0.00	
SURF.COND.	13 3/8	1409.4	17 1/2	1415.0	1.71	LOT
PILOT HOLE		1415.0	8 1/2	1415.0	0.00	
INTERM.	9 5/8	2451.0	12 1/4	2456.0	1.90	LOT
OPEN HOLE		2754.0	8 1/2	2754.0	0.00	

**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
350	1.35			Water	
1415	1.50			Water	
1415	1.25			Water	
1744	1.50			Water	
2342	1.50			Water	
2454	1.20			Water	
2456	1.50			Water	
2469	1.42			Water	
2473	1.39			Water	
2754	1.41			Water	