

**General information**

Wellbore name	6507/8-10 S
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	6507/8-10
Seismic location	MC3D PGS HVG2011 inline 3652. xline 3208
Production licence	889
Drilling operator	Neptune Energy Norge AS
Drill permit	1808-L
Drilling facility	WEST PHOENIX
Drilling days	34
Entered date	21.03.2020
Completed date	23.04.2020
Plugged and abandon date	23.04.2020
Release date	24.02.2021
Publication date	30.04.2021
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	38.6
Water depth [m]	324.0
Total depth (MD) [m RKB]	2399.0
Final vertical depth (TVD) [m RKB]	2350.0
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	ÅRE FM
Geodetic datum	ED50
NS degrees	65° 18' 10.4" N
EW degrees	7° 31' 13.39" E
NS UTM [m]	7243202.73
EW UTM [m]	431018.86
UTM zone	32
NPDID wellbore	8991



Wellbore history

General

Well 6507/8-10 S was drilled to test the Grind prospect east of the Heidrun Field in the Grinda Graben in the Norwegian Sea. The primary objective was to prove presence and commercial volumes of movable hydrocarbons in the Early Jurassic sandstones of the Tilje and Åre formations.

Operations and results

A 9-7/8" pilot hole 6507/8-U-3 was drilled to 1150 m in parallel to drilling 6507/8-10 S 36" x 42"-hole, 12 m north-west of the main bore location. Dual drilling was a first for the West Phoenix. No shallow gas or shallow water flows were observed during drilling.

Wildcat well 6507/8-10 S was spudded with the semi-submersible installation West Phoenix on 21 March 2020 and drilled to TD at 2399 m (2350 m TVD) in the Early Jurassic Åre Formation. Due to adverse weather nine days were spent as WOW, otherwise operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1150 m and with Versatec oil-based mud from 1150 m to TD.

The Tilje Formation was encountered at 2053.0 m and comprised 150 m sandstone with minor siltstones and claystones. The Åre Formation consisted of 197m sandstone with minor siltstones and coal and was encountered at 2203.0 m. Petrophysical analysis indicated good reservoir properties (24-25% porosity) in both formations with 98 m net reservoir sand in Tilje and 98 m net reservoir sand in Åre. Both formations were dry. "Dead oil" was observed in a very few cutting samples, but it has been interpreted to be associated with coal layers in the Åre Formation.

No cores were cut. No logs were run on wire line and no fluid sample was taken.

The well was permanently abandoned on 23 April 2020 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]
1160.00	2399.00

Cuttings available for sampling?	YES
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Lithostratigraphy

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



362	NAUST FM
1420	KAI FM
1710	HORDALAND GP
1710	BRYGGE FM
1907	ROGALAND GP
1907	TARE FM
1939	TANG FM
1945	SHETLAND GP
1988	VIKING GP
1988	MELKE FM
2002	FANGST GP
2002	ILE FM
2007	BÅT GP
2007	ROR FM
2053	TILJE FM
2203	ÅRE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - DIR	362	440
LWD - DIR GR RES PWD	440	1150
LWD - GR RES PWD CAL NEU DEN SON	1956	1299
LWD - GR RES PWD DIR SON DEN NEU	1150	1956

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	437.0	36	440.0	0.00	
SURF.COND.	13 3/8	1145.0	17 1/2	1150.0	1.82	LOT
LINER	9 5/8	1950.0	12 1/4	1956.0	1.87	LOT
OPEN HOLE		2399.0	8 1/2	0.0	0.00	