



General information

Wellbore name	7321/8-2 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	BARENTS SEA
Well name	7321/8-2
Seismic location	WG1301CER17B. Inline 8645. Crossline 11949
Production licence	719
Drilling operator	Spirit Energy Norway AS
Drill permit	1817-L
Drilling facility	LEIV EIRIKSSON
Drilling days	31
Entered date	01.06.2020
Completed date	01.07.2020
Plugged and abandon date	01.07.2020
Release date	19.03.2021
Publication date	30.04.2021
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	466.0
Total depth (MD) [m RKB]	1899.0
Final vertical depth (TVD) [m RKB]	1802.0
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	SNADD FM
Geodetic datum	ED50
NS degrees	73° 22' 25.61" N
EW degrees	21° 35' 11.54" E
NS UTM [m]	8150225.58
EW UTM [m]	327316.09
UTM zone	35
NPDID wellbore	9050



Wellbore history

General

Well 7321/8-2 S was drilled to test the Sandia prospect in the Fingerdjupet Basin in the Barents Sea. The primary objective was to penetrate the Realgrunnen- and Storfjorden Subgroup (uppermost Snadd Formation) to determine hydrocarbon content and assess the reservoir thickness and properties. The secondary objective was data acquisition to improve understanding of potential reservoir rocks in the Early Cretaceous (the "Scarecrow" unit in the Kolje Formation).

Operations and results

A 9 7/8 pilot hole 7321/8-U-1 was spudded 15 m away from the main bore location and drilled to planned 13 3/8" casing at 825 m. No shallow gas was observed.

Wildcat well 7321/8-2 S was spudded with the semi-submersible installation Leiv Eiriksson on 1 June 2020 and drilled to 1095 m where severe losses occurred, and the well was plugged back and side-tracked from kick-off at 825 m (7321/8-2 ST2). Losses occurred again at 1165 m. This was cured by LCM and cement. Drilling proceeded with reduced mud weight, but still with losses, to final TD at 1899 m (1901.6 m TVD) in the Late Triassic Snadd Formation. The well was drilled with seawater and hi-vis pills down to 820 m and with Glydril mud from 820 m to TD.

The well was dry. The "Scarecrow" siltstone interval within the Kolje Formation was penetrated from 870 to 966 m had high drill gas levels. Only very weak hydrocarbon shows were observed in the Stø Formation and the Reke Member of the Fruholmen Formation, typically described as "No odour, no stain, no direct fluorescence, very slow blooming dull blue-white fluorescent cut, no visible cut, dull yellow fluorescent residual ring, no visible residue".

No cores were cut. A reduced wireline logging was conducted. MDT pressures were recorded, but no fluid sample was taken.

The well was permanently abandoned on 1 July 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]
830.00	1090.00

Cuttings available for sampling?	YES
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Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
491	NORDLAND GP
491	NAUST FM
528	ADVENTDALEN GP
528	KOLMULE FM
848	KOLJE FM
870	UNDIFFERENTIATED
966	UNDIFFERENTIATED
1502	KNURR FM
1532	KLIPPFISK FM
1558	HEKKINGEN FM
1610	FUGLEN FM
1621	KAPP TOSCANA GP
1621	STØ FM
1657	NORDMELA FM
1665	FRUHOLMEN FM
1665	REKE MBR
1728	UNDIFFERENTIATED
1788	SNADD FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - DI	490	553
LWD - PWD RES GR DI	825	1556
LWD - PWD RES GR DI NEU DEN SON	820	1095
PQ HY	0	0
PWD RES GR DI	553	820
ZAIT MSIP PEX	0	0

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	36	553.5	42	553.5	0.00	
SURF.COND.	20	820.0	17 1/2	814.3	1.39	FIT
INTERM.	9 5/8	1556.0	12 1/4	1553.0	1.25	FIT



OPEN HOLE		1899.0	8 1/2	1899.0	0.00	
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