

**General information**

Wellbore name	7219/12-3 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	7219/12-3
Seismic location	WG0901 Inline 891. Xline 3657
Production licence	533
Drilling operator	Lundin Norway AS
Drill permit	1676-L
Drilling facility	LEIV EIRIKSSON
Drilling days	43
Entered date	03.12.2017
Completed date	17.01.2018
Release date	17.01.2020
Publication date	14.01.2020
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	313.0
Total depth (MD) [m RKB]	2750.0
Final vertical depth (TVD) [m RKB]	2707.0
Maximum inclination [°]	22.5
Bottom hole temperature [°C]	89
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	FRUHOLMEN FM
Geodetic datum	ED50
NS degrees	72° 12' 3.51" N
EW degrees	19° 43' 2.12" E
NS UTM [m]	8017875.50
EW UTM [m]	660804.40
UTM zone	33
NPDID wellbore	8307



Wellbore history

General

Well 7219/12-3 S was drilled to test the Hurri prospect on the Ringvassøy-Loppa Fault Complex west of the Loppa High in the Barents Sea. The primary objectives were to test the reservoir properties and hydrocarbon potential at Hekkingen Formation/BCU level, and in the Stø Formation. The hydrocarbon potential in the Kolje and Tubåen formations was defined as secondary objectives.

Operations and results

Wildcat well 7219/12-3 S was spudded with the semi-submersible installation Leiv Eiriksson on 3 December 2017 and drilled to TD at 2750 m (2707 m TVD) in the Late Triassic Fruholmen Formation. The well was drilled S-shaped with inclination up to 22.5° in the overburden between 721 and 1726 m, and vertical from there through all target reservoirs to TD. Restrictions in the hole and a leak in the BOP led to 6 days NPT when running the 9 5/8" casing. Otherwise operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 404 m, with KCl/polymer/GEM mud with 3-4.2% glycol from 404 m to 661 m, and with Performadril mud 3 – 5% glycol from 661 m to TD.

A 67 m thick water-bearing sandstone with poor reservoir quality was encountered at 1980 m (1938 m TVD) in the Kolje Formation. Top Hekkingen Formation was encountered at 2169 m (2127 m TVD). No reservoir was encountered at this level. The Stø Formation was encountered at 2243 m (2201 m TVD) with 100 m water-bearing sandstone of moderate to good reservoir quality. The Nordmela Formation was encountered at 2348 m (2306 m TVD) with a total of 90 m water-bearing sandstone layers of moderate quality. The Tubåen Formation was encountered at 2578 m (2535 m TVD) with 40 m water-bearing sandstone of moderate quality.

Two siltstone SWC's at 1955.1 and 1974.4 m in the lower Kolmule Formation had good oil shows with hydrocarbon odour, oil stain, direct fluorescence, cut fluorescence, and residue fluorescence. The Kolje sandstone (1980 to 2047 m) had direct, cut and residue fluorescence. The Stø Formation sandstone (2243 to 2348 m) had direct, cut and residue fluorescence. Geochemical analysis of an SWC sample at 2245 m confirmed a mature migrated oil show in the Upper Stø Formation.

No cores were cut. No fluid sample was taken.

The well was permanently abandoned on 17 January 2018 as a dry well with shows.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
410.00	2750.00

Cuttings available for sampling?	YES
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**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
338	NORDLAND GP
475	SOTBAKKEN GP
475	TORSK FM
1832	ADVENTDALEN GP
1832	KOLMULE FM
1980	KOLJE FM
2128	KNURR FM
2169	HEKKINGEN FM
2202	FUGLEN FM
2243	KAPP TOSCANA GP
2243	STØ FM
2348	NORDMELA FM
2578	TUBÅEN FM
2651	FRUHOLMEN FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMI PPC MSIP PPC GR JAR	1755	2749
MDT GR	1842	1975
MSCT GR	1799	2730
MWD LWD - GR PWD DIR	337	390
MWD LWD - GR RES AC PWD DIR	387	496
MWD LWD - GR RES PWD DIR	380	644
MWD LWD - RES GR DEN NEU CAL AC	621	2750
XPT HRLA PEX ECS HNGS GR JAR	1755	2737
ZO VSP	616	2735

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	402.8	36	404.0	0.00	
PILOT HOLE		499.0	9 7/8	499.0	0.00	



SURF.COND.	20	653.8	26	661.0	1.48	LOT
INTERM.	9 5/8	1755.9	12 1/4	1763.0	1.52	LOT
OPEN HOLE		2750.0	8 1/2	2750.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
380	1.50	17.0		KCL/Polymer/GEM	
402	1.50	17.0		KCL/Polymer/GEM	
403	1.05	1.0		Bentonite Spud Mud	
403	1.30	16.0		KCL/Polymer/GEM	
420	1.30	14.0		KCL/Polymer/GEM	
503	1.03	1.0		Other	
547	1.30	20.0		KCL/Polymer/GEM	
610	1.24	19.0		PERFORMADRIL	
625	1.30	21.0		KCL/Polymer/GEM	
661	1.30	14.0		KCL/Polymer/GEM	
661	1.39	20.0		KCL/Polymer/GEM	
661	1.20	17.0		PERFORMADRIL	
808	1.20	18.0		PERFORMADRIL	
961	1.24	21.0		PERFORMADRIL	
1556	1.22	19.0		PERFORMADRIL	
1556	1.24	19.0		PERFORMADRIL	
1756	1.21	17.0		PERFORMADRIL	
1763	1.24	19.0		PERFORMADRIL	
2402	1.23	24.0		PERFORMADRIL	
2448	1.24	23.0		PERFORMADRIL	
2517	1.23	24.0		PERFORMADRIL	
2655	1.21	23.0		PERFORMADRIL	
2740	1.22	21.0		PERFORMADRIL	
2750	1.21	22.0		PERFORMADRIL	