

**General information**

Wellbore name	7219/12-2 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
Discovery	7219/12-2 S (Hufsa)
Well name	7219/12-2
Seismic location	WG0901: inlin 1330 Crossline 2578
Production licence	533
Drilling operator	Lundin Norway AS
Drill permit	1663-L
Drilling facility	LEIV EIRIKSSON
Drilling days	31
Entered date	08.10.2017
Completed date	07.11.2017
Plugged date	07.11.2017
Release date	07.11.2019
Publication date	07.11.2019
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS
Discovery wellbore	YES
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	NORDMELA FM
Kelly bushing elevation [m]	25.0
Water depth [m]	337.0
Total depth (MD) [m RKB]	2100.0
Final vertical depth (TVD) [m RKB]	1854.0
Maximum inclination [°]	48
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	FRUHOLMEN FM
Geodetic datum	ED50
NS degrees	72° 5' 12.66" N
EW degrees	19° 59' 10.01" E
NS UTM [m]	8005923.36
EW UTM [m]	671004.98



UTM zone	33
NPDID wellbore	8216

Wellbore history

General

Well 7219/12-2 S was drilled to test the Hufsa prospect on the western margin of the Polhem sub-platform in the Barents Sea. The primary exploration target for wildcat well 7219/12-2 S was to prove petroleum in Early Jurassic reservoir rocks (Nordmela formation). The secondary exploration target was to prove petroleum in Late Triassic/Early Jurassic reservoir rocks (Tubåen formation).

Operations and results

Wildcat well 7219/12-2 S was spudded with the semi-submersible installation Leiv Eiriksson on 8 October 2017 and drilled to TD at 2100 m (1854 m TVD) m in the Late Triassic Fruholmen Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 430 m, with KCl/polymer/GEM mud from 430 to 1506 m, and with Performadril mud with glycol from 1506 m to TD.

Top Nordmela Formation came in at 1553 m (1480.4 m TVD) and top Tubåen Formation at 1843 m (1678 m TVD). The Nordmela Formation contained a gas column of 23 m of which about 20 m were in sandstone layers with good to moderate reservoir quality. A well-defined gas-water contact was established at 1587.5 m (1503.5 m TVD). The secondary target Tubåen Formation had good reservoir quality but was water wet. No shows are described above top Nordmela. Below the GWC weak spotty shows (dull yellow direct fluorescence, very slow blooming white cut fluorescence and weak fluorescent residue) were described in sandstones down to 1842 m.

Two cores were cut. Core 1 was cut from 1555 to 1578 m with 98.9% recovery. Core 2 was cut from 1578 to 1632 m with 50.7% recovery. The core-depth shifts were +1.87 and +1.71 m for core 1 and core 2, respectively. MDT fluid samples were taken at 1555.67 m (gas), 1583.89 m (gas) and 1596.38 m (water)

The well was permanently abandoned on 7 November 2017 as a gas Discovery.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
440.00	2100.00

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	1555.0	1577.8	[m]
2	1578.0	1605.4	[m]

Total core sample length [m]	50.1
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
363	NORDLAND GP
363	NAUST FM
485	SOTBAKKEN GP
485	TORSK FM
1548	ADVENTDALEN GP
1548	KOLMULE FM
1553	KAPP TOSCANA GP
1553	NORDMELA FM
1843	TUBÅEN FM
2000	FRUHOLMEN FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMI MSIP	362	2101
HRLA PEX HNGS	1500	2101
LWD - DIR CAL DEN NEU AC	602	2100
LWD - GR PWD DIR	0	0
LWD - GR RES AC PWD DIR	412	504
LWD - GR RES PWD DIR	418	652
MDT	1555	1596
MSCT	1552	2080
MSCT	1724	2015
VSI	899	2067
XL ROCK	1555	1706
XPT CMR ECS	1550	2080

**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	428.7	36	429.7	0.00	
PILOT HOLE		506.0	9 7/8	506.0	0.00	
SURF.COND.	20	652.2	26	660.0	1.55	LOT
		652.2		0.0	1.39	LOT
		665.0	17 1/2	665.0	0.00	
INTERM.	9 5/8	1500.1	12 1/4	1508.0	1.61	LOT
OPEN HOLE		2100.0	8 1/2	2100.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
408	1.04			SWEEPS	
410	1.50	28.0		SWEEPS	
430	1.04			SWEEPS	
430	1.39	28.0		SWEEPS	
430	1.39	29.0		Kill mud	
445	1.20	10.0		KCl/Pol/GEM	
567	1.22	19.0		KCl/Pol/GEM	
660	1.39	16.0		KCl/Pol/GEM	
660	1.22	20.0		KCl/Pol/GEM	
660	1.20	13.0		Performadril	
665	1.20	13.0		Performadril	
1274	1.22	20.0		Performadril	
1286	1.20	30.0		Performadril	
1544	1.23	27.0		Performadril	
1544	1.20	26.0		Performadril	
1632	1.20	20.0		Performadril	
1632	1.21	20.0		Performadril	
1700	1.22	20.0		Performadril	
1783	1.20	20.0		Performadril	
2100	1.20	23.0		Performadril	