General information

Wellbore name	7219/12-1
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	7219/12-1 (Filicudi)
Well name	7219/12-1
Seismic location	LN12M01: inline 31040 crossline 26094
Production licence	533
Drilling operator	Lundin Norway AS
Drill permit	1635-L
Drilling facility	LEIV EIRIKSSON
Drilling days	56
Entered date	25.11.2016
Completed date	19.01.2017
Plugged date	21.01.2017
Release date	19.01.2019
Publication date	04.04.2019
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS
Discovery wellbore	YES
1st level with HC, age	LATE TRIASSIC
1st level with HC, formation	TUBÅEN FM
Kelly bushing elevation [m]	25.0
Water depth [m]	322.0
Total depth (MD) [m RKB]	2500.0
Final vertical depth (TVD) [m RKB]	2495.0
Maximum inclination [°]	8
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	SNADD FM
Geodetic datum	ED50
NS degrees	72° 12' 44.21'' N
EW degrees	19° 46' 38.32'' E
NS UTM [m]	8019294.63
EW UTM [m]	662747.70

UTM zone	33
NPDID wellbore	8024

Wellbore history

General

Well 7219/12-1 was drilled on the Filicudi prospect in the northern part of Ringvasshøy-Loppa Fault Complex in the Barents Sea. The primary objective was to test the hydrocarbon potential in the Late Triassic – Early Jurassic Tubåen and Fruholmen formations. Secondary objective was to test the hydrocarbon potential in the Triassic Snadd Formation.

Operations and results

Wildcat well 7219/12-1 was spudded with the semi-submersible installation Leiv Eriksson on 25 November 2016 and drilled to TD at 2500 m in the Late Triassic Snadd Formation. Below 1500 m the well started to build angle, with maximum deviation of 8 ° at TD, where TVD is 4.5 m short of MD. The well was drilled with Seawater and hi-vis sweeps down to 667 m, and with Performadril water-based mud (3.2 – 4 % glycol) from 667 m to TD.

The well encountered top Tubåen Formation primary target at 1503 m with excellent reservoir properties in Rhaetian age sandstone. The Tubåen sandstone was gas and oil filled with GOC at 1568.5 m, and oil down to the FWL at 1630 m. Oil shows, fluorescence and cut, were described on cores down to 1660 m. Apart from this, only weak shows were recorded on two sidewall cores at 1694.7 and 2320 m, and on two cuttings samples at 1687 m and 2176 m.

Six cores were cut from 1503.0 m to 1671.4 m with close to 100% total recovery. MDT fluid samples were taken at 1525 m (gas), 1577.8 m (oil), 1593.3 m (oil), 1604.2 m (oil), 1628.6 m (oil), and 1651.5 m (water).

The well was permanently abandoned on 19 January 2017 as an oil and gas discovery well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
670.00	2500.00

Cuttings available for sampling?	YES

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1503.0	1529.4	[m]
2	1530.0	1539.6	[m]
3	1540.3	1560.5	[m]
4	1560.5	1608.3	[m]
5	1608.3	1617.4	[m]
6	1617.4	1671.4	[m]

Total core sample length [m]	167.0
Cores available for sampling?	YES

Oil samples at the Norwegian Offshore Directorate

Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
MDT		0.00	0.00			YES
MDT		1628.00	0.00	OIL		YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
347	NORDLAND GP
485	SOTBAKKEN GP
485	TORSK FM
1498	ADVENTDALEN GP
1499	HEKKINGEN FM
1501	UNDEFINED GP
1503	KAPP TOSCANA GP
1503	TUBÅEN FM
1653	FRUHOLMEN FM
1729	REKE MBR
2072	AKKAR MBR
2169	SNADD FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMI MSIP GR JAR	347	2033
FMI MSIP GR JAR	1985	2494
HRLA PEX HNGS ECS JAR	1971	2483
HRLA PEX HNGS GR JAR	1443	2027
MDT GR JAR	1514	2320
MDT GR JAR	1577	1604
MSCT GR	1460	2444
MWD - GR RES PWD DIR AC	403	662
MWD - PWD DIR	662	667
MWD - PWD DIR GR	347	403
MWD - RES GRPWD DIR CAL DEN NEU	667	2500
VSI4 GR	663	2491
XPT ECS SMR GR JAR	1443	2033

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	414.9	36	414.9	0.00	
SURF.COND.	20	654.5	26	662.0	1.40	LOT
PILOT HOLE		662.0	9 7/8	662.0	0.00	
INTERM.	9 5/8	1443.3	12 1/4	1450.0	1.69	LOT
OPEN HOLE		2500.0	8 1/2	2500.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
415	1.50	42.0		DISPLACEMENT MUD	
415	1.05	45.0		Bentonite Spud Mud	
415	1.02	1.0		Other	
511	1.02	1.0		SPUD-MUD	
511	1.50	50.0		DISPLACEMENT MUD	
652	1.14	13.0		Performadril	

662	1.39	41.0		DISPLACEMENT MUD	
662	1.14	13.0		Performadril	
662	1.14	10.0		WBM	
662	1.02	1.0		Other	
667	1.14	13.0		Performadril	
1173	1.14	15.0		Performadril	
1173	1.28	23.0		Performadril	
1200	1.14	14.0		Performadril	
1244	1.28	23.0		Performadril	
1250	1.15	13.0		Performadril	
1280	1.14	14.0		Performadril	
1450	1.25	14.0		Performadril	
1450	1.14	13.0		Performadril	
1503	1.25	14.0		Performadril	
1530	1.27	14.0		Performadril	
1530	1.25	15.0		Performadril	
2500	1.27	19.0		Performadril	