General information

Wellbore name	7219/9-2
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	7219/9-2 (Kayak)
Well name	7219/9-2
Seismic location	ST13M07 inline11135.crossline7863
Production licence	532
Drilling operator	Statoil Petroleum AS
Drill permit	1659-L
Drilling facility	SONGA ENABLER
Drilling days	28
Entered date	05.06.2017
Completed date	02.07.2017
Plugged and abondon date	02.07.2017
Release date	02.07.2019
Publication date	02.07.2019
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	EARLY CRETACEOUS
1st level with HC, formation	KOLMULE FM
Kelly bushing elevation [m]	32.0
Water depth [m]	336.0
Total depth (MD) [m RKB]	2568.0
Final vertical depth (TVD) [m RKB]	2564.5
Maximum inclination [°]	10.94
Bottom hole temperature [°C]	88
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	STØ FM
Geodetic datum	ED50
NS degrees	72° 19' 44.14'' N
EW degrees	19° 54' 39.8'' E
NS UTM [m]	8032634.66

EW UTM [m]	666233.22
UTM zone	33
NPDID wellbore	8193

Wellbore history

General

Well 7219/9-2 was drilled on the boundary between Bjørnøyrenna Fault Complex and Polhem Sub-platform in the Barents Sea. The target was Cretaceous syn-rift sand bodies. The Kolmule Formation was primary objective (Kayak prospect) and the Knurr Formation was secondary objective (Husky prospect).

Operations and results

Wildcat well 7219/9-2 was spudded with the semi-submersible installation Songa Enabler on 5 June 2017 and drilled to TD at 2568 m (2564.5 m TVD) m in the Middle Jurassic Stø Formation. Operations proceeded without significant problems. The well was drilled with Seawater and hi-vis pills down to 888.6 m and with Enviromul oil-based mud from 888.6 m to TD.

Sandstones in the lower part of the Kolmule Formation (Kayak prospect), was encountered at 1536 m (1536 m TVD). The reservoir consists of two sandstone intervals of moderate to poor reservoir quality. The reservoir was oil-bearing in the upper sand with an oil-down-to contact at 1568 m. The lower sand was water-bearing, but had oil shows in the form of direct and cut fluorescence throughout down to 1700 m. The deeper Knurr Formation (Husky prospect) was penetrated at 2027 m. Sand bodies were present also here, but this reservoir was water filled without shows.

Two cores were cut from 1548.8 to 1701.1 m with close to 100% total recovery. MDT fluid samples were taken at 1555.4 m (oil), 1543.9 m (oil), 1563.6 m, and 1672.0 m (oil).

The well was permanently abandoned on 2 July 2017 as an oil discovery.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
910.00	2567.00

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	1548.8	1618.4	[m]

2	1620.2	1701.9	[m]

Total core sample length [m]	151.3
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1310.0	[m]	DC	CGG
1330.0	[m]	DC	CGG
1350.0	[m]	DC	CGG
1370.0	[m]	DC	CGG
1390.0	[m]	DC	CGG
1410.0	[m]	DC	CGG
1430.0	[m]	DC	CGG
1437.7	[m]	SWC	CGG
1450.0	[m]	DC	CGG
1468.0	[m]	DC	CGG
1483.0	[m]	DC	CGG
1492.0	[m]	DC	CGG
1501.0	[m]	DC	CGG
1510.0	[m]	DC	CGG
1519.0	[m]	DC	CGG
1528.0	[m]	DC	CGG
1537.0	[m]	DC	CGG
1546.0	[m]	DC	CGG
1549.6	[m]	C	CGG
1556.0	[m]	C	CGG
1561.8	[m]	C	CGG
1566.9	[m]	C	CGG
1572.0	[m]	C	CGG
1576.6	[m]	C	CGG
1580.5	[m]	C	CGG
1585.1	[m]	C	CGG
1590.3	[m]	C	CGG
1594.4	[m]	C	CGG
1599.3	[m]	C	CGG
1603.3	[m]	C	CGG
1608.8	[m]	C	CGG

1613.9	[m]	C	CGG
1620.5	[m]	C	CGG
1625.3	[m]	C	CGG
1630.9	[m]	C	CGG
1636.8	[m]	C	CGG
1642.8	[m]	C	CGG
1648.6	[m]	C	CGG
1654.0	[m]	C	CGG
1657.2	[m]	C	CGG
1663.9	[m]	C	CGG
1670.9	[m]	C	CGG
1674.9	[m]	C	CGG
1678.3	[m]	C	CGG
1684.7	[m]	C	CGG
1690.0	[m]	C	CGG
1695.3	[m]	C	CGG
1701.6	[m]	C	CGG
1705.0	[m]	DC	CGG
1714.0	[m]	DC	CGG
1723.0	[m]	DC	CGG
1732.0	[m]	DC	CGG
1741.0	[m]	DC	CGG
1750.0	[m]	DC	CGG
1762.0	[m]	DC	CGG
1774.0	[m]	DC	CGG
1786.0	[m]	DC	CGG
1795.0	[m]	DC	CGG
1804.8	[m]	SWC	CGG
1816.0	[m]	DC	CGG
1828.0	[m]	DC	CGG
1840.0	[m]	DC	CGG
1852.0	[m]	DC	CGG
1864.0	[m]	DC	CGG
1876.0	[m]	DC	CGG
1888.0	[m]	DC	CGG
1900.0	[m]	DC	CGG
1911.5	[m]	SWC	CGG
1924.0	[m]	DC	CGG
1936.0	[m]	DC	CGG
1948.0	[m]	DC	CGG

1960.0	[m]	DC	CGG
1969.0	[m]	DC	CGG
1978.5	[m]	SWC	CGG
1990.0	[m]	DC	CGG
2006.5	[m]	SWC	CGG
2020.0	[m]	DC	CGG
2044.0	[m]	DC	CGG
2056.0	[m]	DC	CGG
2068.0	[m]	DC	CGG
2080.0	[m]	DC	CGG
2092.0	[m]	DC	CGG
2104.0	[m]	DC	CGG
2116.0	[m]	DC	CGG
2128.0	[m]	DC	CGG
2140.0	[m]	DC	CGG
2152.0	[m]	DC	CGG
2164.0	[m]	DC	CGG
2176.0	[m]	DC	CGG
2188.0	[m]	DC	CGG
2200.0	[m]	DC	CGG
2210.0	[m]	SWC	CGG
2224.0	[m]	DC	CGG
2237.5	[m]	SWC	CGG
2248.0	[m]	DC	CGG
2260.0	[m]	DC	CGG
2266.8	[m]	SWC	CGG
2278.0	[m]	DC	CGG
2290.0	[m]	DC	CGG
2303.8	[m]	SWC	CGG
2317.0	[m]	DC	CGG
2329.0	[m]	DC	CGG
2341.0	[m]	DC	CGG
2353.0	[m]	DC	CGG
2362.0	[m]	DC	CGG
2373.0	[m]	SWC	CGG
2383.0	[m]	DC	CGG
2396.3	[m]	SWC	CGG
2400.2	[m]	SWC	CGG
2410.0	[m]	DC	CGG
2422.0	[m]	SWC	CGG

2434.0	[m]	DC	CGG
2446.0	[m]	DC	CGG
2458.0	[m]	DC	CGG
2470.0	[m]	DC	CGG
2482.0	[m]	DC	CGG
2494.0	[m]	DC	CGG
2506.0	[m]	DC	CGG
2518.0	[m]	DC	CGG
2527.0	[m]	DC	CGG
2535.0	[m]	SWC	CGG
2550.0	[m]	SWC	CGG
2560.0	[m]	DC	CGG
2567.0	[m]	DC	CGG

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
368	NORDLAND GP
368	NAUST FM
479	SOTBAKKEN GP
479	TORSK FM
1323	KOLMULE FM
1730	KOLJE FM
2027	KNURR FM
2230	HEKKINGEN FM
2396	FUGLEN FM
2556	KAPP TOSCANA GP
2556	STØ FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - ARC6 TELES675	1458	2568
LWD - ARC9 TELES	406	1458
LWD - TELES	368	406
MDT CMR	1500	2350
MDT PA	1541	1672
NGI	1456	2565

VSI4	366	2500
XLROCK	1551	2550
ZAIT PEX ECS MSIP	1175	2570

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	405.3	36	406.0	0.00	
INTERM.	13 5/8	888.6	17 1/2	895.0	1.20	FIT
LINER	9 7/8	1456.5	12 1/4	1458.0	1.53	LOT
OPEN HOLE		2568.0	8 1/2	2568.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
950	1.11	19.0		Enviromul	
1458	1.21	22.0		Enviromul	
1458	1.11	20.0		Enviromul	
1460	1.23	28.0		Enviromul	
1620	1.23	25.0		Enviromul	
2005	1.23	25.0		Enviromul	
2567	1.23	25.0		Enviromul	