

**General information**

Wellbore name	6507/8-9
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Discovery	6507/8-9 (Carmen)
Well name	6507/8-9
Seismic location	ST14008. IL 1380-XL 1054
Production licence	124
Drilling operator	Statoil Petroleum AS
Drill permit	1664-L
Drilling facility	DEEPSEA BERGEN
Drilling days	21
Entered date	02.08.2017
Completed date	22.08.2017
Plugged and abandon date	22.08.2017
Release date	22.08.2019
Publication date	22.08.2019
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS
Discovery wellbore	YES
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	ÅRE FM
Kelly bushing elevation [m]	23.0
Water depth [m]	358.0
Total depth (MD) [m RKB]	2375.0
Final vertical depth (TVD) [m RKB]	2375.0
Maximum inclination [°]	2.1
Bottom hole temperature [°C]	91
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	ÅRE FM
Geodetic datum	ED50
NS degrees	65° 24' 1.04" N
EW degrees	7° 26' 21.71" E
NS UTM [m]	7254147.21



EW UTM [m]	427510.87
UTM zone	32
NPDID wellbore	8218

Wellbore history

General

Well 6507/8-9 was drilled to test the Carmen prospect on the northern part of the Grinda Graben in the Norwegian Sea, adjacent to the Heidrun Nord Discovery. The primary objective for the well was to prove hydrocarbons in the middle to Early Jurassic (Fangst or Båt Group).

Operations and results

Wildcat well 6507/8-9 was spudded with the semi-submersible installation Deepsea Bergen on 2 August 2017 and drilled to TD at 2375 m in the Early Jurassic Åre Formation. Operations proceeded without significant problems. The well was drilled with Seawater down to 1410 m and with Enviromul oil-based mud from 1410 m to TD.

Top Åre Formation was encountered at 2120.5 m, directly underlying Late Cretaceous sediments belonging to the Kvitnos Formation. No Middle-Late Jurassic and Early Cretaceous sediments were present in the well. The Åre Formation held a gas column of 87 m down to the gas-water contact at 2207 m, of which 35m was sandstone of good reservoir quality with a Net to Gross of 60%. The secondary target in Lower Åre Formation was water wet. The only shows described in the well were in the gas-bearing reservoir.

One core was cut from 3299 to 3381 m in the Åre Formation with 99% recovery. MDT fluid samples were taken at 2127 m (gas), 2186 m (gas), and at 2240.2 m (water).

The well was permanently abandoned on 22 August 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]
1420.00	2374.00

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	2138.0	2164.9	[m]



Total core sample length [m]	26.9
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1430.0	[m]	DC	PETROSTR
1460.0	[m]	DC	PETROS
1490.0	[m]	DC	PETROS
1520.0	[m]	DC	PETROS
1550.0	[m]	DC	PETROS
1580.0	[m]	DC	PETROS
1610.0	[m]	DC	PETROS
1640.0	[m]	DC	PETROS
1670.0	[m]	DC	PETROS
1700.0	[m]	DC	PETROS
1730.0	[m]	DC	PETROS
1760.0	[m]	DC	PETROS
1790.0	[m]	DC	PETROS
1800.0	[m]	DC	PETROS
1810.0	[m]	DC	PETROS
1820.0	[m]	DC	PETROS
1830.0	[m]	DC	PETROS
1840.0	[m]	DC	PETROS
1850.0	[m]	DC	PETROS
1860.0	[m]	DC	PETROS
1870.0	[m]	DC	PETROS
1880.0	[m]	DC	PETROS
1890.0	[m]	DC	PETROS
1900.0	[m]	DC	PETROS
1910.0	[m]	DC	PETROS
1920.0	[m]	DC	PETROS
1930.0	[m]	DC	PETROS
1940.0	[m]	DC	PETROS
1950.0	[m]	DC	PETROS
1960.0	[m]	DC	PETROS
1970.0	[m]	DC	PETROS
1980.0	[m]	DC	PETROS
1990.0	[m]	DC	PETROS



2000.0	[m]	DC	PETROS
2010.0	[m]	DC	PETROS
2020.0	[m]	DC	PETROS
2030.0	[m]	DC	PETROS
2040.0	[m]	DC	PETROS
2050.0	[m]	DC	PETROS
2060.0	[m]	DC	PETROS
2068.0	[m]	DC	PETROS
2071.0	[m]	DC	PETROS
2077.0	[m]	DC	PETROS
2083.0	[m]	DC	PETROS
2089.0	[m]	DC	PETROS
2095.0	[m]	DC	PETROS
2101.0	[m]	DC	PETROS
2107.0	[m]	DC	PETROS
2110.0	[m]	DC	PETROS
2113.0	[m]	DC	PETROS
2116.0	[m]	DC	PETROS
2119.0	[m]	DC	PETROS
2120.8	[m]	SWC	PETROS
2122.0	[m]	DC	PETROS
2123.3	[m]	SWC	PETROS
2125.0	[m]	DC	PETROS
2128.0	[m]	DC	PETROS
2130.0	[m]	SWC	PETROS
2131.0	[m]	DC	PETROS
2134.0	[m]	DC	PETROS
2136.8	[m]	SWC	PETROS
2137.0	[m]	DC	PETROS
2138.2	[m]	C	PETROS
2140.8	[m]	C	PETROS
2143.3	[m]	C	PETROS
2146.6	[m]	C	PETROS
2149.6	[m]	C	PETROS
2152.5	[m]	C	PETROS
2155.2	[m]	C	PETROS
2158.9	[m]	C	PETROS
2161.4	[m]	C	PETROS
2170.0	[m]	DC	PETROS
2176.0	[m]	DC	PETROS



2182.0	[m]	DC	PETROS
2188.0	[m]	DC	PETROS
2188.6	[m]	SWC	PETROS
2194.0	[m]	DC	PETROS
2200.0	[m]	DC	PETROS
2206.0	[m]	DC	PETROS
2209.0	[m]	SWC	PETROS
2212.0	[m]	DC	PETROS
2218.0	[m]	DC	PETROS
2224.0	[m]	DC	PETROS
2230.0	[m]	DC	PETROS
2236.0	[m]	DC	PETROS
2242.0	[m]	DC	PETROS
2248.0	[m]	DC	PETROS
2254.0	[m]	DC	PETROS
2260.0	[m]	DC	PETROS
2266.0	[m]	DC	PETROS
2272.0	[m]	DC	PETROS
2272.6	[m]	SWC	PETROS
2278.0	[m]	DC	PETROS
2284.0	[m]	DC	PETROS
2290.0	[m]	DC	PETROS
2296.0	[m]	DC	PETROS
2302.0	[m]	DC	PETROS
2308.0	[m]	DC	PETROS
2314.0	[m]	DC	PETROS
2316.6	[m]	SWC	PETROS
2320.0	[m]	DC	PETROS
2326.0	[m]	DC	PETROS
2332.0	[m]	DC	PETROS
2338.0	[m]	DC	PETROS
2344.0	[m]	DC	PETROS
2350.0	[m]	DC	PETROS
2356.0	[m]	DC	PETROS
2362.0	[m]	DC	PETROS
2368.0	[m]	DC	PETROS
2374.0	[m]	DC	PETROS

Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
381	NORDLAND GP
381	NAUST FM
1448	KAI FM
1797	HORDALAND GP
1797	BRYGGE FM
1966	ROGALAND GP
1966	TARE FM
1983	TANG FM
2040	SHETLAND GP
2040	SPRINGAR FM
2046	NISE FM
2094	KVITNOS FM
2121	BÅT GP
2121	ÅRE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT MSIP PEX HNGS	1470	2375
LWD - GR RES	418	2375
MDT CMR	2083	2345
XLR	2121	2349

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	418.0	36	418.0	0.00	
INTERM.	13 5/8	1401.3	17 1/2	1410.0	1.60	FIT
LINER	9 7/8	2063.0	12 1/4	2064.0	1.64	FIT
OPEN HOLE		2375.0	8 1/2	2375.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1410	1.45	23.0		Enviromul	



1478	1.43	26.0		Enviromul	
1757	1.48	30.0		Enviromul	
1963	1.54	35.0		Enviromul	
2047	1.51	32.0		Enviromul	
2064	1.51	35.0		Enviromul	
2064	1.50	31.0		Enviromul	
2105	1.51	32.0		Enviromul	
2375	1.51	29.0		Enviromul	