## General information

| | |
|---|---|
| Wellbore name | 7317/9-1 |
| Type | EXPLORATION |
| Purpose | WILDCAT |
| Status | P&A |
| Press release | link to press release |
| Factmaps in new window | link to map |
| Main area | BARENTS SEA |
| Well name | 7317/9-1 |
| Seismic location | SWB12.inline 1731.crossline 19697 |
| Production licence | 718 |
| Drilling operator | Statoil Petroleum AS |
| Drill permit | 1669-L |
| Drilling facility | SONGA ENABLER |
| Drilling days | 25 |
| Entered date | 13.09.2017 |
| Completed date | 07.10.2017 |
| Plugged date | 07.10.2017 |
| Plugged and abondon date | 07.10.2017 |
| Release date | 02.01.2019 |
| Publication date | 02.05.2019 |
| Purpose - planned | WILDCAT |
| Reentry | NO |
| Content | DRY |
| Discovery wellbore | NO |
| Kelly bushing elevation [m] | 32.0 |
| Water depth [m] | 434.0 |
| Total depth (MD) [m RKB] | 1500.0 |
| Final vertical depth (TVD) [m RKB] | 1497.0 |
| Maximum inclination [°] | 6.2 |
| Bottom hole temperature [°C] | 39 |
| Oldest penetrated age | TRIASSIC |
| Oldest penetrated formation | SNADD FM |
| Geodetic datum | ED50 |
| NS degrees | 73° 27' 50.46'' N |
| EW degrees | 17° 48' 10.53'' E |
| NS UTM [m] | 8154556.93 |
| EW UTM [m] | 589020.10 |
| UTM zone | 33 |
| NPDID wellbore | 8240 |

## Wellbore history

**General**

Exploration well 7317/9-1 Koigen Central, and the two associated pilot wells 7317/6-U-1 and 7317/9-U-1, were drilled in the Koigen Central prospect, located on the Stappen High, in the south-western Barents Sea. The primary target was the upper Realgrunnen Subgroup (Stø and Nordmela formations). Secondary targets were the lower Realgrunnen Subgroup (Tubåen and Fruholmen formations), and the Triassic Snadd Formation.

**Operations and results**

The first pilot hole, 7317/6-U-1, located 4.5 km north of the main well location was designed to gain control of the stratigraphy. It was drilled vertically down to a TD of 1216 m in the Hekkingen Formation. The second pilot hole, 7317/9-U-1, was located ca. 40 m north-north east of the main well. It was drilled vertically down to a TD of 806 m in the Hekkingen Formation, the approximate setting depth of the 13 3/8" casing shoe in the main well. No shallow gas was encountered in the two pilots.

Wildcat well 7317/9-1 was spudded with the semi-submersible installation Songa Enabler on 13 September 2017 and drilled to TD at 1500 m in the Triassic Snadd Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 816 m and with KCl/GEM/Polymer water-based mud from 816 m to TD.

The primary targets Stø and Nordmela formations were not present in the well. Instead top Fuglen was penetrated from 893 to 980 m and the secondary target Tubåen and Fruholmen formations were penetrated from 980 to 1218 m. The well was dry, with trace shows in sandstones in the Tubåen and Fruholmen formations. The shows were noticed as weak to dull direct fluorescence on cuttings in the intervals 1043 - 1070 m, 1115 - 1157 m and 1448 m - 1447 m. Weak dull direct fluorescence was also seen in four of the sidewall cores (1008.4 m, 1108.5 m, 1141 m and 1142.8 m). The conventional cores had no shows. No cut fluorescence was observed on any type of samples.

One core was cut in the Tubåen Formation from 1033 to 1070 m with 99.4% recovery. No fluid sample was taken.

The well was permanently abandoned on 7 October 2017 as a dry well.

**Testing**

No drill stem test was performed.

## Cuttings at the Norwegian Offshore Directorate

| Cutting sample, top depth [m] | Cutting samples, bottom depth [m] |
|---|---|
| 818.00 | 1499.00 |

| 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 | 1033.0 | 1069.8 | [m ] |

| | |
|---|---|
| Total core sample length [m] | 36.8 |
| Cores available for sampling? | YES |

### Palynological slides at the Norwegian Offshore Directorate

| Sample depth | Depth unit | Sample type | Laboratory |
|---|---|---|---|
| 818.0 | [m] | DC | CGG |
| 824.0 | [m] | DC | CGG |
| 830.0 | [m] | DC | CGG |
| 839.0 | [m] | DC | CGG |
| 846.0 | [m] | SWC | CGG |
| 851.0 | [m] | SWC | CGG |
| 854.9 | [m] | SWC | CGG |
| 858.3 | [m] | SWC | CGG |
| 862.9 | [m] | SWC | CGG |
| 865.0 | [m] | SWC | CGG |
| 874.0 | [m] | SWC | CGG |
| 879.3 | [m] | SWC | CGG |
| 887.0 | [m] | DC | CGG |
| 893.0 | [m] | DC | CGG |
| 899.0 | [m] | DC | CGG |
| 905.0 | [m] | DC | CGG |
| 911.0 | [m] | DC | CGG |
| 918.1 | [m] | SWC | CGG |
| 923.0 | [m] | DC | CGG |
| 930.0 | [m] | SWC | CGG |
| 938.0 | [m] | DC | CGG |
| 943.8 | [m] | SWC | CGG |
| 949.8 | [m] | SWC | CGG |
| 956.0 | [m] | DC | CGG |
| 962.0 | [m] | DC | CGG |
| 968.0 | [m] | DC | CGG |
| 974.0 | [m] | DC | CGG |
| 980.0 | [m] | DC | CGG |

| | | | |
|---|---|---|---|
| 987.3 | [m] | SWC | CGG |
| 995.0 | [m] | DC | CGG |
| 999.2 | [m] | SWC | CGG |
| 1004.0 | [m] | DC | CGG |
| 1010.0 | [m] | DC | CGG |
| 1016.5 | [m] | SWC | CGG |
| 1022.0 | [m] | DC | CGG |
| 1028.0 | [m] | DC | CGG |
| 1033.3 | [m] | C | CGG |
| 1035.3 | [m] | C | CGG |
| 1038.6 | [m] | C | CGG |
| 1039.7 | [m] | C | CGG |
| 1042.6 | [m] | C | CGG |
| 1044.7 | [m] | C | CGG |
| 1049.3 | [m] | C | CGG |
| 1053.7 | [m] | C | CGG |
| 1056.3 | [m] | C | CGG |
| 1059.5 | [m] | C | CGG |
| 1064.4 | [m] | C | CGG |
| 1069.5 | [m] | C | CGG |
| 1073.0 | [m] | DC | CGG |
| 1082.0 | [m] | DC | CGG |
| 1091.0 | [m] | DC | CGG |
| 1100.0 | [m] | DC | CGG |
| 1109.0 | [m] | DC | CGG |
| 1118.0 | [m] | DC | CGG |
| 1125.6 | [m] | SWC | CGG |
| 1133.0 | [m] | DC | CGG |
| 1140.5 | [m] | SWC | CGG |
| 1151.0 | [m] | DC | CGG |
| 1158.5 | [m] | SWC | CGG |
| 1169.0 | [m] | DC | CGG |
| 1178.0 | [m] | DC | CGG |
| 1187.0 | [m] | DC | CGG |
| 1196.0 | [m] | DC | CGG |
| 1205.0 | [m] | DC | CGG |
| 1226.0 | [m] | DC | CGG |
| 1235.0 | [m] | DC | CGG |
| 1244.0 | [m] | DC | CGG |
| 1253.0 | [m] | DC | CGG |

| | | | |
|---|---|---|---|
| 1262.0 | [m] | DC | CGG |
| 1269.4 | [m] | SWC | CGG |
| 1286.0 | [m] | DC | CGG |
| 1295.0 | [m] | DC | CGG |
| 1304.0 | [m] | DC | CGG |
| 1313.0 | [m] | DC | CGG |
| 1322.0 | [m] | DC | CGG |
| 1331.0 | [m] | DC | CGG |
| 1340.0 | [m] | DC | CGG |
| 1358.0 | [m] | DC | CGG |
| 1367.0 | [m] | DC | CGG |
| 1379.0 | [m] | DC | CGG |
| 1388.0 | [m] | DC | CGG |
| 1409.0 | [m] | DC | CGG |
| 1421.0 | [m] | DC | CGG |
| 1442.0 | [m] | DC | CGG |
| 1478.0 | [m] | DC | CGG |
| 1491.3 | [m] | SWC | CGG |
| 1499.0 | [m] | DC | CGG |

## Lithostratigraphy

| Top depth [mMD RKB] | Lithostrat. unit |
|---|---|
| 466 | NORDLAND GP |
| 502 | ADVENTDALEN GP |
| 502 | KOLJE FM |
| 715 | KNURR FM |
| 793 | HEKKINGEN FM |
| 893 | FUGLEN FM |
| 980 | KAPP TOSCANA GP |
| 980 | TUBÅEN FM |
| 1079 | FRUHOLMEN FM |
| 1219 | SNADD FM |

## Logs

| Log type | Log top depth [m] | Log bottom depth [m] |
|---|---|---|
| FMI MSIP | 1067 | 1487 |

| | | |
|---|---|---|
| IFA PO PS | 872 | 1061 |
| MWD - ARC GS TELE | 1070 | 1500 |
| MWD - ARC TELES | 466 | 813 |
| MWD - GVR ARC GS TELE | 813 | 1033 |
| PEX ECS | 807 | 1068 |
| PEX HRLA ZAIT ECS XPT | 1067 | 1495 |
| SS HRLA | 466 | 1068 |
| VSP | 482 | 1488 |
| XL ROCK | 819 | 1031 |
| XL ROCK | 1077 | 1491 |

**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 |
|---|---|---|---|---|---|---|
| INTERM. | 13 3/8 | 807.0 | 17 1/2 | 813.0 | 1.42 | FIT |
| LINER | 9 7/8 | 1067.0 | 12 1/4 | 1070.0 | 1.93 | LOT |
| OPEN HOLE | | 1500.0 | 8 1/2 | 1500.0 | 0.00 | |

**Drilling mud**

| Depth MD [m] | Mud weight [g/cm3] | Visc. [mPa.s] | Yield point [Pa] | Mud type | Date measured |
|---|---|---|---|---|---|
| 590 | 1.20 | 11.0 | | Spud Mud | |
| 594 | 1.60 | 18.0 | | KCl/Polymer | |
| 594 | 1.35 | 14.0 | | KCl/Polymer/GEM | |
| 620 | 1.03 | 1.0 | | Seawater | |
| 633 | 1.20 | 19.0 | | Spud Mud | |
| 644 | 1.60 | 18.0 | | KCl/Polymer | |
| 644 | 1.35 | 14.0 | | KCl/Polymer/GEM | |
| 813 | 1.24 | 15.0 | | KCl/Polymer/GEM | |
| 911 | 1.21 | 16.0 | | KCl/Polymer/GEM | |
| 957 | 1.20 | 15.0 | | KCl/Polymer/GEM | |
| 1071 | 1.12 | 15.0 | | KCl/Polymer/GEM | |
| 1500 | 1.12 | 13.0 | | KCl/Polymer/GEM | |