



## General information

|                                    |                                         |
|------------------------------------|-----------------------------------------|
| Wellbore name                      | 7324/2-1                                |
| Type                               | EXPLORATION                             |
| Purpose                            | WILDCAT                                 |
| Status                             | P&A                                     |
| Press release                      | <a href="#">link to press release</a>   |
| Factmaps in new window             | <a href="#">link to map</a>             |
| Main area                          | BARENTS SEA                             |
| Well name                          | 7324/2-1                                |
| Seismic location                   | 3D survey MC3D:inline 2170 & xline 7584 |
| Production licence                 | <a href="#">615</a>                     |
| Drilling operator                  | Statoil Petroleum AS                    |
| Drill permit                       | 1523-L                                  |
| Drilling facility                  | <a href="#">TRANSOCEAN SPITSBERGEN</a>  |
| Drilling days                      | 18                                      |
| Entered date                       | 01.06.2014                              |
| Completed date                     | 18.06.2014                              |
| Release date                       | 18.06.2016                              |
| Publication date                   | 18.06.2016                              |
| Purpose - planned                  | WILDCAT                                 |
| Reentry                            | NO                                      |
| Content                            | DRY                                     |
| Discovery wellbore                 | NO                                      |
| Kelly bushing elevation [m]        | 40.0                                    |
| Water depth [m]                    | 444.0                                   |
| Total depth (MD) [m RKB]           | 1090.0                                  |
| Final vertical depth (TVD) [m RKB] | 1090.0                                  |
| Maximum inclination [°]            | 2.8                                     |
| Bottom hole temperature [°C]       | 29                                      |
| Oldest penetrated age              | LATE TRIASSIC                           |
| Oldest penetrated formation        | SNADD FM                                |
| Geodetic datum                     | ED50                                    |
| NS degrees                         | 73° 51' 47.9" N                         |
| EW degrees                         | 24° 32' 29.9" E                         |
| NS UTM [m]                         | 8198587.61                              |
| EW UTM [m]                         | 423751.01                               |
| UTM zone                           | 35                                      |
| NPDID wellbore                     | 7481                                    |



## Wellbore history

### General

Well 7324/2-1 was drilled to test the Apollo prospect on the western flank of the Hoop Graben in the Barents Sea. The primary objective was to prove an economic volume of hydrocarbons in the Stø, Nordmela, Tubåen and Fruholmen formations in the Early-Middle Jurassic.

### Operations and results

Wildcat well 7324/2-1 was spudded with the semi-submersible installation Transocean Spitsbergen on 1 June 2014 and drilled to TD at 1090 m in the Late Triassic Snadd Formation. A pilot well was drilled to a depth of 640 m to look for shallow gas. No shallow gas was encountered in the pilot hole. No significant problem was encountered in the operations. Drilling of the top hole down to the reservoir section was very fast, too fast for the well site geologist and mud logger to get good cuttings samples and look for shows in sandstone stringers. The well was drilled with seawater and hi-vis sweeps down to 639 m, with KCl/Polymer/Glycol mud from 639 m to 791 m, and with Low Sulphate/KCl/Polymer/Glycol mud from 791 m to TD.

Top of the Jurassic Stø Formation was penetrated at 849 m, with sandstones from 857 m to top of the Late Triassic Fruholmen Formation at 871 m. These sandstones had moderate reservoir quality. Unfortunately, they were water wet. The Nordmela and Tubåen formations were not present in the well. The only hydrocarbon indications in the well were oil shows, described in the sidewall cores from the Snadd Formation between 893 m and 929 m.

No cores were cut. MDT water samples were taken at 857.7 m.

The well was permanently abandoned on 18 June 2014 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] |
|-------------------------------|-----------------------------------|
| 650.00                        | 1090.00                           |

|                                  |     |
|----------------------------------|-----|
| Cuttings available for sampling? | YES |
|----------------------------------|-----|

## Palynological slides at the Norwegian Offshore Directorate

| Sample depth | Depth unit | Sample type | Laboratory |
|--------------|------------|-------------|------------|
| 647.0        | [m]        | DC          | ROBERTSO   |
| 660.0        | [m]        | DC          | ROBERT     |
| 670.0        | [m]        | DC          | ROBERT     |



|           |     |        |
|-----------|-----|--------|
| 676.0 [m] | DC  | ROBERT |
| 682.0 [m] | DC  | ROBERT |
| 688.0 [m] | DC  | ROBERT |
| 694.0 [m] | DC  | ROBERT |
| 700.0 [m] | DC  | ROBERT |
| 706.0 [m] | DC  | ROBERT |
| 712.0 [m] | DC  | ROBERT |
| 718.0 [m] | DC  | ROBERT |
| 730.0 [m] | DC  | ROBERT |
| 740.0 [m] | DC  | ROBERT |
| 760.0 [m] | DC  | ROBERT |
| 770.0 [m] | DC  | ROBERT |
| 780.0 [m] | DC  | ROBERT |
| 790.0 [m] | DC  | ROBERT |
| 796.0 [m] | DC  | ROBERT |
| 802.0 [m] | DC  | ROBERT |
| 808.0 [m] | DC  | ROBERT |
| 814.0 [m] | DC  | ROBERT |
| 820.0 [m] | DC  | ROBERT |
| 823.0 [m] | DC  | ROBERT |
| 826.0 [m] | DC  | ROBERT |
| 829.0 [m] | DC  | ROBERT |
| 832.0 [m] | DC  | ROBERT |
| 835.0 [m] | DC  | ROBERT |
| 838.0 [m] | DC  | ROBERT |
| 841.0 [m] | DC  | ROBERT |
| 843.5 [m] | SWC | ROBERT |
| 844.0 [m] | DC  | ROBERT |
| 847.0 [m] | DC  | ROBERT |
| 850.0 [m] | DC  | ROBERT |
| 850.5 [m] | SWC | ROBERT |
| 853.0 [m] | DC  | ROBERT |
| 856.0 [m] | DC  | ROBERT |
| 859.0 [m] | DC  | ROBERT |
| 868.0 [m] | DC  | ROBERT |
| 877.0 [m] | DC  | ROBERT |
| 883.0 [m] | SWC | ROBERT |
| 886.0 [m] | DC  | ROBERT |
| 890.7 [m] | SWC | ROBERT |
| 895.0 [m] | DC  | ROBERT |



|        |     |     |        |
|--------|-----|-----|--------|
| 900.0  | [m] | SWC | ROBERT |
| 904.0  | [m] | DC  | ROBERT |
| 913.0  | [m] | DC  | ROBERT |
| 922.0  | [m] | DC  | ROBERT |
| 931.0  | [m] | DC  | ROBERT |
| 938.0  | [m] | SWC | ROBERT |
| 940.0  | [m] | DC  | ROBERT |
| 949.0  | [m] | DC  | ROBERT |
| 958.0  | [m] | DC  | ROBERT |
| 967.0  | [m] | DC  | ROBERT |
| 976.0  | [m] | DC  | ROBERT |
| 978.5  | [m] | SWC | ROBERT |
| 985.0  | [m] | DC  | ROBERT |
| 989.0  | [m] | SWC | ROBERT |
| 994.0  | [m] | DC  | ROBERT |
| 1003.0 | [m] | DC  | ROBERT |
| 1012.0 | [m] | DC  | ROBERT |
| 1021.0 | [m] | DC  | ROBERT |
| 1030.0 | [m] | DC  | ROBERT |
| 1039.0 | [m] | DC  | ROBERT |
| 1048.0 | [m] | DC  | ROBERT |
| 1057.0 | [m] | DC  | ROBERT |
| 1066.0 | [m] | DC  | ROBERT |
| 1075.0 | [m] | DC  | ROBERT |
| 1084.0 | [m] | DC  | ROBERT |
| 1090.0 | [m] | DC  | ROBERT |

**Lithostratigraphy**

| Top depth<br>[mMD RKB] | Lithostrat. unit                |
|------------------------|---------------------------------|
| 484                    | <a href="#">NORDLAND GP</a>     |
| 484                    | <a href="#">NAUST FM</a>        |
| 544                    | <a href="#">ADVENTDALEN GP</a>  |
| 544                    | <a href="#">KOLMULE FM</a>      |
| 694                    | <a href="#">KOLJE FM</a>        |
| 737                    | <a href="#">KNURR FM</a>        |
| 755                    | <a href="#">HEKKINGEN FM</a>    |
| 757                    | <a href="#">FUGLEN FM</a>       |
| 849                    | <a href="#">KAPP TOSCANA GP</a> |



|     |                              |
|-----|------------------------------|
| 849 | <a href="#">STØ FM</a>       |
| 871 | <a href="#">FRUHOLMEN FM</a> |
| 894 | <a href="#">SNADD FM</a>     |

**Logs**

| Log type                  | Log top depth [m] | Log bottom depth [m] |
|---------------------------|-------------------|----------------------|
| FMI MSIP                  | 790               | 1090                 |
| HRLA ZAIT PEX ECS         | 689               | 1098                 |
| MDT                       | 853               | 1080                 |
| MSCT                      | 843               | 989                  |
| MSIP PEX ECS ZAIT         | 484               | 791                  |
| MWD - TELE                | 482               | 536                  |
| MWD - TELE ARCVRES8       | 536               | 794                  |
| MWD - TELE675 RAB6 PERI15 | 791               | 1090                 |
| VSP                       | 480               | 1080                 |

**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                  | 533.0            | 36                | 536.0          | 0.00                     |                     |
| INTERM.     | 13 3/8              | 629.1            | 17 1/2            | 639.0          | 1.20                     | FIT                 |
| PILOT HOLE  |                     | 640.0            | 8 1/2             | 640.0          | 0.00                     |                     |
| LINER       | 9 5/8               | 790.0            | 12 1/4            | 791.0          | 1.47                     | FIT                 |
| OPEN HOLE   |                     | 1090.0           | 8 1/2             | 1090.0         | 0.00                     |                     |

**Drilling mud**

| Depth MD [m] | Mud weight [g/cm3] | Visc. [mPa.s] | Yield point [Pa] | Mud type                        | Date measured |
|--------------|--------------------|---------------|------------------|---------------------------------|---------------|
| 593          | 1.12               | 15.0          |                  | KCl/Polymer/GEM                 |               |
| 791          | 1.14               | 17.0          |                  | Low Sulphate/KCl/Polymer/Glycol |               |
| 791          | 1.12               | 21.0          |                  | KCl/Polymer/Glycol              |               |
| 791          | 1.12               | 21.0          |                  | KCl/Polymer/Glycol              |               |
| 791          | 1.14               | 17.0          |                  | Low Sulphate/KCl/Polymer/Glycol |               |



|      |      |      |  |                                 |  |
|------|------|------|--|---------------------------------|--|
| 825  | 1.14 | 17.0 |  | Low Sulphate/KCl/Polymer/Glycol |  |
| 1090 | 1.14 | 18.0 |  | Low Sulphate/KCl/Polymer/Glycol |  |