

**General information**

|                                    |                                        |
|------------------------------------|----------------------------------------|
| Wellbore name                      | 7124/4-1 S                             |
| 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                          | 7124/4-1                               |
| Seismic location                   | Fruholmen 3D seismic IL 1562 & XL 2529 |
| Production licence                 | <a href="#">530</a>                    |
| Drilling operator                  | GDF SUEZ E&P Norge AS                  |
| Drill permit                       | 1371-L                                 |
| Drilling facility                  | <a href="#">AKER BARENTS</a>           |
| Drilling days                      | 27                                     |
| Entered date                       | 16.09.2011                             |
| Completed date                     | 12.10.2011                             |
| Release date                       | 10.08.2013                             |
| Publication date                   | 10.08.2013                             |
| Purpose - planned                  | WILDCAT                                |
| Reentry                            | NO                                     |
| Content                            | DRY                                    |
| Discovery wellbore                 | NO                                     |
| Kelly bushing elevation [m]        | 40.0                                   |
| Water depth [m]                    | 302.0                                  |
| Total depth (MD) [m RKB]           | 2814.0                                 |
| Final vertical depth (TVD) [m RKB] | 2730.0                                 |
| Maximum inclination [°]            | 17.1                                   |
| Oldest penetrated age              | EARLY TRIASSIC                         |
| Oldest penetrated formation        | HAVERT FM                              |
| Geodetic datum                     | ED50                                   |
| NS degrees                         | 71° 35' 16.14" N                       |
| EW degrees                         | 24° 5' 56.76" E                        |
| NS UTM [m]                         | 7945629.41                             |
| EW UTM [m]                         | 397765.17                              |
| UTM zone                           | 35                                     |
| NPDID wellbore                     | 6678                                   |



## Wellbore history

### General

Well 7124/4-1 S was drilled on the Heilo prospect in the transition zone between the Hammerfest and the Nordkapp Basins, approximately 105 km north of Hammerfest and approximately 70 km north-east of Goliat field. The Heilo prospect was defined as a structural trap in the Jurassic-Triassic Fruholmen Formation in the Kapp Toscana Group. The main objective was to test reservoir and hydrocarbon presence in the Jurassic - Triassic Stø to Fruholmen formations. The Triassic Snadd, Kobbe, Klappmyss and Havert formations were secondary objectives.

### Operations and results

Wildcat well 7124/4-1 S was spudded with the semi-submersible installation Aker Barents on 16 September 2011 and drilled to TD at 2814 m (2730 m TVD) in the in the Early Triassic Havert Formation. A 9 7/8" pilot hole was drilled from 406.6 m to 829 m to check for shallow gas no shallow gas was seen. The well was drilled vertical down to 610 m, building angle to ca 16 deg at 1200 m, keeping this angle to TD. It was drilled without significant problems using seawater and hi-vis pills down to 1165 m and with Glydril mud from 1165 m to TD.

In the Jurassic the well encountered the Stø Formation at 1259 m (1238m TVD). The Stø Formation was 50.5 m TVD thick, with good reservoir quality. The Triassic Snadd Formation at 1330 m (1307 m TVD) also proved good reservoir properties. The deeper Kobbe, Klappmyss and Havert formations all contained sand layers at the top, but with reduced reservoir quality downwards. No shows were recorded in the well.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 12 October 2011 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] |
|-------------------------------|-----------------------------------|
| 830.00                        | 2813.00                           |

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

## Palynological slides at the Norwegian Offshore Directorate

| Sample depth | Depth unit | Sample type | Laboratory |
|--------------|------------|-------------|------------|
| 1264.0       | [m]        | DC          | FUGRO      |
| 1294.0       | [m]        | DC          | FUGRO      |
| 1297.0       | [m]        | DC          | FUGRO      |



|        |     |    |       |
|--------|-----|----|-------|
| 1300.0 | [m] | DC | FUGRO |
| 1309.0 | [m] | DC | FUGRO |
| 1360.0 | [m] | DC | FUGRO |
| 1372.0 | [m] | DC | FUGRO |
| 1387.0 | [m] | DC | FUGRO |
| 1399.0 | [m] | DC | FUGRO |
| 1432.0 | [m] | DC | FUGRO |
| 2627.0 | [m] | DC | FUGRO |
| 2657.0 | [m] | DC | FUGRO |
| 2663.0 | [m] | DC | FUGRO |

**Lithostratigraphy**

| Top depth<br>[mMD RKB] | Lithostrat. unit                |
|------------------------|---------------------------------|
| 343                    | <a href="#">NORDLAND GP</a>     |
| 443                    | <a href="#">SOTBAKKEN GP</a>    |
| 443                    | <a href="#">TORSK FM</a>        |
| 575                    | <a href="#">NYGRUNNEN GP</a>    |
| 575                    | <a href="#">KVITING FM</a>      |
| 600                    | <a href="#">ADVENTDALEN GP</a>  |
| 600                    | <a href="#">KOLMULE FM</a>      |
| 1154                   | <a href="#">KOLJE FM</a>        |
| 1166                   | <a href="#">KNURR FM</a>        |
| 1209                   | <a href="#">HEKKINGEN FM</a>    |
| 1252                   | <a href="#">FUGLEN FM</a>       |
| 1259                   | <a href="#">KAPP TOSCANA GP</a> |
| 1259                   | <a href="#">STØ FM</a>          |
| 1312                   | <a href="#">FRUHOLMEN FM</a>    |
| 1330                   | <a href="#">SNADD FM</a>        |
| 1888                   | <a href="#">SASSENDALLEN GP</a> |
| 1888                   | <a href="#">KOBBE FM</a>        |
| 2276                   | <a href="#">KLAPPMYSS FM</a>    |
| 2606                   | <a href="#">HAVERT FM</a>       |

**Geochemical information**

| Document name          | Document format | Document size<br>[MB] |
|------------------------|-----------------|-----------------------|
| <a href="#">6678_1</a> | pdf             | 0.24                  |





|                        |     |      |
|------------------------|-----|------|
| <a href="#">6678_2</a> | pdf | 1.45 |
|------------------------|-----|------|

## Logs

| Log type                         | Log top depth [m] | Log bottom depth [m] |
|----------------------------------|-------------------|----------------------|
| MWD - ARCVIS SONVIS              | 343               | 825                  |
| MWD - ARCVIS SONVIS PDX5         | 826               | 1165                 |
| MWD - GEOVIS ARCVIS ADNVIS SONVI | 1165              | 1699                 |
| MWD - PDX5 IMP VPWD ADNVIS SON   | 1699              | 2814                 |

## 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                  | 404.5            | 36                | 406.0          | 0.00                     | LOT                 |
| SURF.COND.  | 13 3/8              | 819.5            | 17 1/2            | 826.0          | 0.00                     | LOT                 |
| PILOT HOLE  |                     | 829.0            | 9 7/8             | 829.0          | 0.00                     | LOT                 |
| INTERM.     | 9 5/8               | 1160.0           | 12 1/4            | 1165.0         | 1.53                     | LOT                 |
| LINER       | 7                   | 1695.5           | 8 1/2             | 1699.0         | 2.05                     | LOT                 |
| OPEN HOLE   |                     | 2814.0           | 6                 | 2814.0         | 1.70                     | LOT                 |

## Drilling mud

| Depth MD [m] | Mud weight [g/cm3] | Visc. [mPa.s] | Yield point [Pa] | Mud type | Date measured |
|--------------|--------------------|---------------|------------------|----------|---------------|
| 917          | 1.22               | 15.0          |                  | Glydril  |               |
| 1345         | 1.31               | 16.0          |                  | Glydril  |               |
| 1699         | 1.31               | 19.0          |                  | Glydril  |               |
| 2114         | 1.31               | 19.0          |                  | Glydril  |               |
| 2456         | 1.31               | 19.0          |                  | Glydril  |               |
| 2814         | 1.31               | 18.0          |                  | Glydril  |               |

