

**General information**

|                                    |                                                                   |
|------------------------------------|-------------------------------------------------------------------|
| Wellbore name                      | 7/8-6 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                          | NORTH SEA                                                         |
| Well name                          | 7/8-6                                                             |
| Seismic location                   | MC-3DCGMNOR-94R07<br>IL37108/XL114502;LO1102-1010/LO1102<br>-2319 |
| Production licence                 | <a href="#">498</a>                                               |
| Drilling operator                  | LOTOS Exploration and Production Norge AS                         |
| Drill permit                       | 1421-L                                                            |
| Drilling facility                  | <a href="#">MÆRSK GUARDIAN</a>                                    |
| Drilling days                      | 58                                                                |
| Entered date                       | 09.11.2012                                                        |
| Completed date                     | 05.01.2013                                                        |
| Release date                       | 05.01.2015                                                        |
| Publication date                   | 13.04.2015                                                        |
| Purpose - planned                  | WILDCAT                                                           |
| Reentry                            | NO                                                                |
| Content                            | DRY                                                               |
| Discovery wellbore                 | NO                                                                |
| Kelly bushing elevation [m]        | 45.0                                                              |
| Water depth [m]                    | 82.0                                                              |
| Total depth (MD) [m RKB]           | 3220.0                                                            |
| Final vertical depth (TVD) [m RKB] | 3112.0                                                            |
| Maximum inclination [°]            | 28.4                                                              |
| Oldest penetrated age              | LATE CRETACEOUS                                                   |
| Oldest penetrated formation        | TOR FM                                                            |
| Geodetic datum                     | ED50                                                              |
| NS degrees                         | 57° 17' 55.17" N                                                  |
| EW degrees                         | 2° 27' 19.16" E                                                   |
| NS UTM [m]                         | 6350906.15                                                        |
| EW UTM [m]                         | 467176.08                                                         |
| UTM zone                           | 31                                                                |
| NPDID wellbore                     | 7053                                                              |



## Wellbore history

### General

Well 7/8-6 S was drilled on the Skagen prospect on the Jæren High, ca 35 kilometres northwest of the Ula field in the southern part of the North Sea. The Primary objective was to prove hydrocarbon resources of economic volumes in the Late Cretaceous Tor Formation.

### Operations and results

Wildcat well 7/8-6 S was spudded with the jack-up installation Mærsk Guardian on 9 November 2012 and drilled to TD at 3220 m (3112 m TVD) in the Late Cretaceous Tor Formation. A 9 7/8" pilot hole was drilled from 213 m to 812 m. No shallow gas was seen. A total of 99 hrs were counted as NPT due to problems with the MWD in the 8 1/2" section. Otherwise, no significant problems were encountered in the operations. The well was drilled with seawater down to 812 m and oil based mud from 812 m to TD.

The Ekofisk Formation was encountered at 3027 m and the Tor Formation at 3095 m. Both formations were water bearing. Based on petrophysical evaluation residual hydrocarbons were indicated in the Ekofisk Formation down to around 3056.0 m. However, this might be due to the logs being affected by mud filtrate invasion from the oil based mud. Otherwise, there were no shows or other indications of hydrocarbons in the well.

No cores were cut and no fluid samples were taken. Downhole maximum temperatures were measured on MWD/LWD tools. The highest maximum temperature, at 3055 m, was 109 °C. The Horner corrected temperature at 3055 m based on the MWD maximum temperatures was 113 °C.

The well was permanently abandoned on 5 January 2015 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] |
|-------------------------------|-----------------------------------|
| 230.00                        | 3220.00                           |

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

## Lithostratigraphy

| Top depth<br>[mMD RKB] | Lithostrat. unit             |
|------------------------|------------------------------|
| 127                    | <a href="#">NORDLAND GP</a>  |
| 1351                   | <a href="#">HORDALAND GP</a> |



|      |                                |
|------|--------------------------------|
| 1351 | <a href="#">NO FORMAL NAME</a> |
| 2584 | <a href="#">NO FORMAL NAME</a> |
| 2837 | <a href="#">ROGALAND GP</a>    |
| 2837 | <a href="#">BALDER FM</a>      |
| 2877 | <a href="#">SELE FM</a>        |
| 2898 | <a href="#">LISTA FM</a>       |
| 2969 | <a href="#">VÅLE FM</a>        |
| 3027 | <a href="#">SHETLAND GP</a>    |
| 3027 | <a href="#">EKOFISK FM</a>     |
| 3095 | <a href="#">TOR FM</a>         |

**Logs**

| Log type               | Log top depth [m] | Log bottom depth [m] |
|------------------------|-------------------|----------------------|
| EWR DGR QBAT           | 221               | 812                  |
| EWR DGR QBAT PWD       | 812               | 1414                 |
| GR DIR EWR DGR PWD SON | 1414              | 2923                 |
| GR DIR EWR DGR PWD SON | 2923              | 3055                 |
| GR RES MRIL PWD        | 3055              | 3220                 |
| VSP                    | 1250              | 3055                 |

**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                  | 221.0            | 30                | 221.0          | 0.00                     |                     |
| SURF.COND.  | 20                  | 805.0            | 24                | 812.0          | 1.70                     | FIT                 |
| PILOT HOLE  |                     | 812.0            | 9 7/8             | 812.0          | 0.00                     |                     |
| INTERM.     | 13 3/8              | 1408.0           | 17 1/2            | 1414.0         | 1.80                     | FIT                 |
| INTERM.     | 9 5/8               | 2904.0           | 12 1/4            | 2912.0         | 1.80                     | FIT                 |
| OPEN HOLE   |                     | 3220.0           | 8 1/2             | 3220.0         | 0.00                     |                     |

**Drilling mud**

| Depth MD [m] | Mud weight [g/cm3] | Visc. [mPa.s] | Yield point [Pa] | Mud type             | Date measured |
|--------------|--------------------|---------------|------------------|----------------------|---------------|
| 360          | 1.02               |               |                  | Seawater             |               |
| 360          | 1.29               | 30.0          |                  | ENVIROMUL yellow OBM |               |



|      |      |      |  |                      |  |
|------|------|------|--|----------------------|--|
| 812  | 1.24 | 12.0 |  | KCl/displacement mud |  |
| 812  | 1.25 | 20.0 |  | ENVIROMUL OBM        |  |
| 812  | 1.49 | 18.0 |  | Spud(kill Mud        |  |
| 1406 | 1.31 | 26.0 |  | ENVIROMUL            |  |
| 1847 | 1.51 | 32.0 |  | ENVIROMUL            |  |
| 2653 | 1.54 | 31.0 |  | ENVIROMUL            |  |
| 2915 | 1.54 | 29.0 |  | ENVIROMUL OBM        |  |
| 3095 | 1.54 | 30.0 |  | ENVIROMUL Yellow OBM |  |