

**General information**

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| Wellbore name                      | 25/8-12 A                                  |
| Type                               | EXPLORATION                                |
| Purpose                            | APPRAISAL                                  |
| 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                                  |
| Field                              | <a href="#">BALDER</a>                     |
| Discovery                          | <a href="#">25/8-11 Ringhorne</a>          |
| Well name                          | 25/8-12                                    |
| Seismic location                   |                                            |
| Production licence                 | <a href="#">027</a>                        |
| Drilling operator                  | Esso Exploration and Production Norway A/S |
| Drill permit                       | 955-L                                      |
| Drilling facility                  | <a href="#">MÆRSK JUTLANDER</a>            |
| Drilling days                      | 6                                          |
| Entered date                       | 09.06.1999                                 |
| Completed date                     | 19.06.1999                                 |
| Release date                       | 19.06.2001                                 |
| Publication date                   | 18.12.2002                                 |
| Purpose - planned                  | APPRAISAL                                  |
| Reentry                            | NO                                         |
| Content                            | OIL                                        |
| Discovery wellbore                 | NO                                         |
| 1st level with HC, age             | EARLY JURASSIC                             |
| 1st level with HC, formation       | STATFJORD GP                               |
| Kelly bushing elevation [m]        | 23.0                                       |
| Water depth [m]                    | 127.0                                      |
| Total depth (MD) [m RKB]           | 2156.0                                     |
| Final vertical depth (TVD) [m RKB] | 2083.0                                     |
| Maximum inclination [°]            | 24.9                                       |
| Bottom hole temperature [°C]       | 85                                         |
| Oldest penetrated age              | LATE TRIASSIC                              |
| Oldest penetrated formation        | SMITH BANK FM                              |
| Geodetic datum                     | ED50                                       |
| NS degrees                         | 59° 17' 22.57" N                           |
| EW degrees                         | 2° 26' 39.45" E                            |



|                |            |
|----------------|------------|
| NS UTM [m]     | 6572584.32 |
| EW UTM [m]     | 468340.44  |
| UTM zone       | 31         |
| NPDID wellbore | 3772       |

## Wellbore history

### General

Well 25/8-12 A is a sidetrack from well 25/8-12 S, which encountered oil in Lower Jurassic, Upper Statfjord Formation sandstones. It was drilled to appraise the southern extension of the 25/8-11 Ringhorn discovery. In the Ringhorn structure, the BCU is also the base of the chalk and represents the overall top of the Lower Jurassic reservoir interval. The primary objective for well 25/8-12 A was Lower Statfjord Formation sandstones, in an eroded horst, fault block.

### Operations and results

Appraisal well 25/8-12 A was drilled with the semi-submersible installation "Mærsk Jutlander". It was kicked off from 1014 m in the 8 1/2" section of 25/8-12 S on June 9, 1999 and drilled to TD at 2156 m in the Triassic Smith Bank Formation. The wellbore was drilled with oil based "Environment" mud. Top Statfjord Formation was found at 1945.7 m (1863.1 m TVD SS). Oil was encountered in Lower Statfjord Formation sandstones, as prognosed. Pressures and fluid sampling was undertaken with Schlumberger's Modular Dynamic Tester (MDT). Pressure measurements gave an oil gradient of 0.0719 bars/m (0.318 psi/ft), consistent with the oil gradient in the original 25/8-12 S wellbore (0.0749 bars/m) and in the 25/8-11 well (0.0741 bars/m). The oil and water gradients intersect to give an OWC at 1917.5 m TVD SS (2005 m MD RKB), in agreement with the Free Water Level defined in the 25/8-11. The deepest sands in the wellbore, the water bearing sands below 1970 m TVD SS, appear to record a separate, higher reservoir gradient. Four oil samples were collected in 450 cc MDT chambers at 1975 m, within the main Jurassic sand reservoir. No draw down was seen during the sampling. Temperature (measured, not static) ranged from 78.4 deg C to 79.3 deg C during the sampling. In addition to the 450 cc chambers, a single one-gallon chamber was filled with oil at the same depth. A one-gallon water sample was obtained at 2008.2 m. One core was cut in the interval 1951 - 1988.5 in the Statfjord Formation. Well 25/8-12 A was permanently abandoned on June 19 1999 as an oil appraisal well.

### Testing

No drill stem test was performed

## Cuttings at the Norwegian Offshore Directorate

|                               |                                   |
|-------------------------------|-----------------------------------|
| Cutting sample, top depth [m] | Cutting samples, bottom depth [m] |
| 1600.00                       | 2156.00                           |

|                                  |     |
|----------------------------------|-----|
| 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                  | 1951.0                  | 1988.5                     | [m ]                    |

|                               |      |
|-------------------------------|------|
| Total core sample length [m]  | 37.5 |
| Cores available for sampling? | YES  |

**Core photos**

1951-1956m



1956-1961m



1961-1966m



1966-1971m



1971-1976m



1976-1981m



1981-1986m



1986-1989m

**Palynological slides at the Norwegian Offshore Directorate**

| Sample depth | Depth unit | Sample type | Laboratory |
|--------------|------------|-------------|------------|
| 1948.0       | [m]        | DC          | RRI        |
| 1951.0       | [m]        | DC          | RRI        |
| 1958.0       | [m]        | DC          | RRI        |
| 2002.0       | [m]        | DC          | RRI        |
| 2014.0       | [m]        | DC          | RRI        |
| 2020.0       | [m]        | DC          | RRI        |
| 2032.0       | [m]        | DC          | RRI        |

**Lithostratigraphy**



| Top depth<br>[mMD RKB] | Lithostrat. unit                 |
|------------------------|----------------------------------|
| 150                    | <a href="#">NORDLAND GP</a>      |
| 560                    | <a href="#">UTSIRA FM</a>        |
| 672                    | <a href="#">NO FORMAL NAME</a>   |
| 728                    | <a href="#">HORDALAND GP</a>     |
| 728                    | <a href="#">SKADE FM</a>         |
| 954                    | <a href="#">NO FORMAL NAME</a>   |
| 1155                   | <a href="#">GRID FM</a>          |
| 1166                   | <a href="#">NO FORMAL NAME</a>   |
| 1748                   | <a href="#">ROGALAND GP</a>      |
| 1748                   | <a href="#">BALDER FM</a>        |
| 1815                   | <a href="#">SELE FM</a>          |
| 1875                   | <a href="#">LISTA FM</a>         |
| 1915                   | <a href="#">VÅLE FM</a>          |
| 1921                   | <a href="#">SHETLAND GP</a>      |
| 1946                   | <a href="#">STATFJORD GP</a>     |
| 2028                   | <a href="#">NO GROUP DEFINED</a> |
| 2028                   | <a href="#">SMITH BANK FM</a>    |

**Composite logs**

| Document name        | Document<br>format | Document size<br>[MB] |
|----------------------|--------------------|-----------------------|
| <a href="#">3772</a> | pdf                | 0.39                  |

**Documents - reported by the production licence (period for duty of secrecy expired)**

| Document name                                    | Document<br>format | Document size<br>[MB] |
|--------------------------------------------------|--------------------|-----------------------|
| <a href="#">3772_25_8_12_A_COMPLETION_LOG</a>    | .pdf               | 2.04                  |
| <a href="#">3772_25_8_12_A_COMPLETION_REPORT</a> | .pdf               | 76.15                 |

**Logs**

| Log type          | Log top<br>depth [m] | Log bottom<br>depth [m] |
|-------------------|----------------------|-------------------------|
| AIT-H DSI IPLT GR | 986                  | 2160                    |
| MDT GR            | 1948                 | 2064                    |





|                |     |      |
|----------------|-----|------|
| MWD - DIR      | 153 | 213  |
| MWD - EWR4 DGR | 213 | 2156 |
| VSP            | 300 | 2150 |

**Casing and leak-off tests**

| Casing type | Casing diam.<br>[inch] | Casing depth<br>[m] | Hole diam.<br>[inch] | Hole depth<br>[m] | LOT/FIT mud<br>eqv.<br>[g/cm3] | Formation test<br>type |
|-------------|------------------------|---------------------|----------------------|-------------------|--------------------------------|------------------------|
| CONDUCTOR   | 30                     | 211.0               | 36                   | 213.0             | 0.00                           | LOT                    |
| INTERM.     | 9 5/8                  | 990.0               | 12 1/4               | 990.0             | 0.00                           | LOT                    |
| OPEN HOLE   |                        | 2156.0              | 8 1/2                | 2156.0            | 1.62                           | LOT                    |

**Drilling mud**

| Depth<br>MD [m] | Mud<br>weight<br>[g/cm3] | Visc.<br>[mPa.s] | Yield point<br>[Pa] | Mud type      | Date<br>measured |
|-----------------|--------------------------|------------------|---------------------|---------------|------------------|
| 825             | 1.32                     | 30.0             |                     | OIL (ENVIRON) |                  |
| 860             | 1.33                     | 30.0             |                     | OIL (ENVIRON) |                  |
| 1340            | 1.32                     | 30.0             |                     | OIL (ENVIRON) |                  |
| 2156            | 1.32                     | 27.0             |                     | OIL (ENVIRON) |                  |

**Pressure plots**

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

| Document name                                             | Document<br>format | Document size<br>[MB] |
|-----------------------------------------------------------|--------------------|-----------------------|
| <a href="#">3772 Formation pressure (Formasjonstrykk)</a> | pdf                | 0.20                  |

