



## General information

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| Wellbore name                      | 15/12-15                                  |
| 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                          | 15/12-15                                  |
| Seismic location                   | Varg 2002-ph1-lineline1835 & crossline 10 |
| Production licence                 | <a href="#">038</a>                       |
| Drilling operator                  | Pertra AS (OLD)                           |
| Drill permit                       | 1087-L                                    |
| Drilling facility                  | <a href="#">DEEPSEA TRYM</a>              |
| Drilling days                      | 33                                        |
| Entered date                       | 19.11.2004                                |
| Completed date                     | 21.12.2004                                |
| Release date                       | 21.12.2006                                |
| Publication date                   | 21.12.2006                                |
| Purpose - planned                  | WILDCAT                                   |
| Reentry                            | NO                                        |
| Content                            | DRY                                       |
| Discovery wellbore                 | NO                                        |
| Kelly bushing elevation [m]        | 25.0                                      |
| Water depth [m]                    | 88.0                                      |
| Total depth (MD) [m RKB]           | 3300.0                                    |
| Final vertical depth (TVD) [m RKB] | 3300.0                                    |
| Maximum inclination [°]            | 1.91                                      |
| Bottom hole temperature [°C]       | 122                                       |
| Oldest penetrated age              | MIDDLE JURASSIC                           |
| Oldest penetrated formation        | SLEIPNER FM                               |
| Geodetic datum                     | ED50                                      |
| NS degrees                         | 58° 2' 43.92" N                           |
| EW degrees                         | 1° 52' 22.98" E                           |
| NS UTM [m]                         | 6434481.04                                |
| EW UTM [m]                         | 433470.04                                 |
| UTM zone                           | 31                                        |
| NPDID wellbore                     | 5017                                      |



## Wellbore history

### General

Wildcat well 15/12-15 was drilled on the Maureen Terrace, ca 3 km west of the Varg and 15/12-12 Rev Discoveries. The main object of the well was to drill to Middle Jurassic/Triassic strata with the aim to explore the hydrocarbon bearing potential of Oxfordian age sandstones analogues to the Varg West. Secondary objective was the hydrocarbon potential of Kimmeridge age sandstone immediately above the main Oxfordian reservoir. The well should measure reservoir pressure and fluid gradients, assess the reservoir quality of the Late Jurassic target reservoir, assess reservoir geometry, and confirm geophysical model in terms of depth to top and base reservoir.

### Operations and results

Well 15/12-15 was spudded with the semi-submersible installation Deepsea Trym on 19 November 2004 and drilled to TD at 3300 m in the Middle Jurassic Sleipner Formation. Apart from some very slow drilling in the interval from 2454 m to 2492 m no significant problems were encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 1370 m, and with a salt saturated /polymer mud system (Performadril) from 1370 m to TD.

Well 15/12-15 penetrated the Oxfordian sandstone at 3140.5 m. The sand was encountered 92 m TVDSS deeper than expected, and was water-wet. The overlying Kimmeridgian sands within the Heather Formation were approximately 96 metres thicker than prognosed and were also water-wet. Weak possible fluorescence was reported from cuttings within the Kimmeridgian reservoir but post-well geochemical analyses revealed no evidence for hydrocarbons of any kind. MDT pressure measurements found the reservoir to be pressure depleted.

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

The well was permanently abandoned on 21 December 2004 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] |
|-------------------------------|-----------------------------------|
| 1570.00                       | 3032.00                           |

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

## Core photos



2892-2898m



2998-2904m



2904-2910m



2910-2911m



2911-2916m



2916-2922m



2922-2928m



2928-2934m



2934-2938m



2939-2945m



2945-2951m



2951-2957m



2957-2963m



2963-2967m

### Lithostratigraphy

| Top depth<br>[mMD RKB] | Lithostrat. unit                    |
|------------------------|-------------------------------------|
| 113                    | <a href="#">NORDLAND GP</a>         |
| 1070                   | <a href="#">UTSIRA FM</a>           |
| 1302                   | <a href="#">HORDALAND GP</a>        |
| 2448                   | <a href="#">ROGALAND GP</a>         |
| 2448                   | <a href="#">BALDER FM</a>           |
| 2459                   | <a href="#">SELE FM</a>             |
| 2512                   | <a href="#">LISTA FM</a>            |
| 2636                   | <a href="#">VÅLE FM</a>             |
| 2655                   | <a href="#">SHETLAND GP</a>         |
| 2881                   | <a href="#">CROMER KNOLL GP</a>     |
| 2956                   | <a href="#">VIKING GP</a>           |
| 2956                   | <a href="#">DRAUPNE FM</a>          |
| 2962                   | <a href="#">HEATHER FM</a>          |
| 3045                   | <a href="#">INTRA HEATHER FM SS</a> |
| 3279                   | <a href="#">VESTLAND GP</a>         |



3279 [SLEIPNER FM](#)

## Logs

| Log type                         | Log top depth [m] | Log bottom depth [m] |
|----------------------------------|-------------------|----------------------|
| MDT GR ACTS ECRD                 | 3148              | 3172                 |
| MWD - DGR DM EWR CTN ALD ACAL BA | 1370              | 2173                 |
| MWD - DGR EWR CTN ALD ACAL BAT D | 2173              | 2454                 |
| MWD - DGR EWR CTN ALD ACAL BAT D | 2454              | 3300                 |
| MWD - DGR EWR DM                 | 175               | 1370                 |

## 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                  | 175.0            | 36                | 176.0          | 0.00                     | LOT                 |
| SURF.COND.  | 13 3/8              | 1364.0           | 17 1/2            | 1370.0         | 1.74                     | LOT                 |
| OPEN HOLE   |                     | 3300.0           | 12 1/4            | 3300.0         | 0.00                     | LOT                 |

## Drilling mud

| Depth MD [m] | Mud weight [g/cm3] | Visc. [mPa.s] | Yield point [Pa] | Mud type     | Date measured |
|--------------|--------------------|---------------|------------------|--------------|---------------|
| 150          | 1.03               | 30.0          |                  | SPUD MUD     |               |
| 1097         | 1.03               | 50.0          |                  | SPUD MUD     |               |
| 1370         | 1.25               | 50.0          |                  | SPUD MUD     |               |
| 1938         | 1.35               | 36.0          |                  | PERFORMADRIL |               |
| 2417         | 1.35               | 36.0          |                  | PERFORMADRIL |               |
| 2454         | 1.35               | 33.0          |                  | PERFORMADRIL |               |
| 2650         | 1.35               | 24.0          |                  | PERFORMADRIL |               |
| 3300         | 1.35               | 34.0          |                  | PERFORMADRIL |               |

## 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 format | Document size [MB] |
|-----------------------------------------------------------|-----------------|--------------------|
| <a href="#">5017 Formation pressure (Formasjonstrykk)</a> | pdf             | 0.23               |

