

**General information**

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| Wellbore name                      | 25/9-2 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                          | 25/9-2                                     |
| Seismic location                   | crossline 2842 & inline2988                |
| Production licence                 | <a href="#">189</a>                        |
| Drilling operator                  | Esso Exploration and Production Norway A/S |
| Drill permit                       | 1056-L                                     |
| Drilling facility                  | <a href="#">DEEPSEA TRYM</a>               |
| Drilling days                      | 17                                         |
| Entered date                       | 18.07.2003                                 |
| Completed date                     | 03.08.2003                                 |
| Release date                       | 03.08.2005                                 |
| Publication date                   | 15.12.2006                                 |
| Purpose - planned                  | WILDCAT                                    |
| Reentry                            | NO                                         |
| Content                            | DRY                                        |
| Discovery wellbore                 | NO                                         |
| Kelly bushing elevation [m]        | 25.0                                       |
| Water depth [m]                    | 122.0                                      |
| Total depth (MD) [m RKB]           | 2250.0                                     |
| Final vertical depth (TVD) [m RKB] | 2139.0                                     |
| Maximum inclination [°]            | 28                                         |
| Oldest penetrated age              | EARLY JURASSIC                             |
| Oldest penetrated formation        | BURTON FM                                  |
| Geodetic datum                     | ED50                                       |
| NS degrees                         | 59° 22' 56.26" N                           |
| EW degrees                         | 2° 41' 46.89" E                            |
| NS UTM [m]                         | 6582813.90                                 |
| EW UTM [m]                         | 482748.03                                  |
| UTM zone                           | 31                                         |
| NPDID wellbore                     | 4735                                       |



## Wellbore history

### General

Wildcat well 25/9-2 S is located east of the Jotun and the Ringhorne fields and had the Middle Jurassic Brent reservoir in

a stratigraphic pinch-out trap as the primary target. Initial "Shallow Hazard Site Survey" indicated moderate probability of shallow gas. The surface location was therefore moved 490 m to an area showing low probability of shallow gas. The result was the need to drill a deviated well with maximum sail angle of 26.44 degrees. A 9 5/8" slim hole well design was chosen instead of a 13 3/8" surface casing design, based on earlier experience in the field, and due to no production testing planned for the well. In the deviated well path a potential shallow gas interval was identified pre-drill, by a seismic amplitude anomaly at approximately 930 m.

### Operations and results

Well 25/9-2 S was spudded with the semi-submersible installation Deepsea Trym on 18 July 2003 and drilled to TD at 2250 m in the Early Jurassic Burton Formation. The shallow section at 930 m was drilled with a 9 7/8" pilot hole. No shallow gas was encountered. The well was drilled with seawater and hi-vis sweeps down to 1055 m and with Versavert oil based mud from 1055 m to TD.

A thin water-wet sand of Callovian age (Hugin Formation) was encountered at 2183 m. The Brent reservoir was not present as prognosed and no hydrocarbons were identified. MWD was the only logging program run in the well. No coring, wire line logging, or fluid sampling was performed in the well as no hydrocarbon sand was encountered.

The well was permanently abandoned on 3 August 2003 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] |
|-------------------------------|-----------------------------------|
| 1060.00                       | 2250.00                           |

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

## Palynological slides at the Norwegian Offshore Directorate

| Sample depth | Depth unit | Sample type | Laboratory |
|--------------|------------|-------------|------------|
| 1200.0       | [m]        | DC          | RRI        |
| 1330.0       | [m]        | DC          | RRI        |
| 1460.0       | [m]        | DC          | RRI        |
| 1570.0       | [m]        | DC          | RRI        |



|            |    |     |
|------------|----|-----|
| 1680.0 [m] | DC | RRI |
| 1810.0 [m] | DC | RRI |
| 1850.0 [m] | DC | RRI |
| 1930.0 [m] | DC | RRI |
| 1980.0 [m] | DC | RRI |
| 2020.0 [m] | DC | RRI |
| 2040.0 [m] | DC | RRI |
| 2050.0 [m] | DC | RRI |
| 2070.0 [m] | DC | RRI |
| 2110.0 [m] | DC | RRI |
| 2121.0 [m] | DC | RRI |
| 2142.0 [m] | DC | RRI |
| 2151.0 [m] | DC | RRI |
| 2160.0 [m] | DC | RRI |
| 2166.0 [m] | DC | RRI |
| 2172.0 [m] | DC | RRI |
| 2178.0 [m] | DC | RRI |
| 2184.0 [m] | DC | RRI |
| 2196.0 [m] | DC | RRI |
| 2202.0 [m] | DC | RRI |
| 2208.0 [m] | DC | RRI |
| 2220.0 [m] | DC | RRI |
| 2241.0 [m] | DC | RRI |

**Lithostratigraphy**

| Top depth<br>[mMD RKB] | Lithostrat. unit              |
|------------------------|-------------------------------|
| 147                    | <a href="#">NORDLAND GP</a>   |
| 714                    | <a href="#">UTSIRA FM</a>     |
| 1002                   | <a href="#">HORDALAND GP</a>  |
| 1832                   | <a href="#">ROGALAND GP</a>   |
| 1832                   | <a href="#">BALDER FM</a>     |
| 1923                   | <a href="#">LISTA FM</a>      |
| 1975                   | <a href="#">SELE FM</a>       |
| 2025                   | <a href="#">VÅLE FM</a>       |
| 2036                   | <a href="#">SHETLAND GP</a>   |
| 2036                   | <a href="#">TOR FM</a>        |
| 2050                   | <a href="#">TRYGGVASON FM</a> |
| 2067                   | <a href="#">SVARTE FM</a>     |



|      |                                 |
|------|---------------------------------|
| 2110 | <a href="#">CROMER KNOLL GP</a> |
| 2110 | <a href="#">RØDBY FM</a>        |
| 2153 | <a href="#">MIME FM</a>         |
| 2163 | <a href="#">VIKING GP</a>       |
| 2163 | <a href="#">DRAUPNE FM</a>      |
| 2173 | <a href="#">HEATHER FM</a>      |
| 2183 | <a href="#">VESTLAND GP</a>     |
| 2183 | <a href="#">HUGIN FM</a>        |
| 2190 | <a href="#">DUNLIN GP</a>       |
| 2190 | <a href="#">BURTON FM</a>       |

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

| Document name                                   | Document format | Document size [MB] |
|-------------------------------------------------|-----------------|--------------------|
| <a href="#">4735 25 9 2 S COMPLETION LOG</a>    | .PDF            | 5.45               |
| <a href="#">4735 25 9 2 S COMPLETION REPORT</a> | .PDF            | 5.89               |

**Logs**

| Log type               | Log top depth [m] | Log bottom depth [m] |
|------------------------|-------------------|----------------------|
| MWD - GR RES DENS NEUT | 1057              | 2250                 |
| MWD - GR RES DIR       | 223               | 1057                 |

**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                  | 218.0            | 36                | 223.0          | 0.00                     | LOT                 |
| SURF.COND.  | 9 5/8               | 1051.0           | 12 1/4            | 1055.0         | 1.65                     | LOT                 |
| OPEN HOLE   |                     | 2250.0           | 8 1/2             | 2250.0         | 0.00                     | LOT                 |

**Drilling mud**

| Depth MD [m] | Mud weight [g/cm3] | Visc. [mPa.s] | Yield point [Pa] | Mud type | Date measured |
|--------------|--------------------|---------------|------------------|----------|---------------|
| 482          | 0.00               |               |                  | WBM      |               |
| 1057         | 1.00               |               |                  | OBM      |               |





|      |      |      |  |     |  |
|------|------|------|--|-----|--|
| 1189 | 1.39 | 35.0 |  | OBM |  |
| 2250 | 0.00 |      |  | NAF |  |