

**General information**

|                                    |                              |
|------------------------------------|------------------------------|
| Wellbore name                      | 34/8-6                       |
| Type                               | EXPLORATION                  |
| Purpose                            | WILDCAT                      |
| Status                             | P&A                          |
| Factmaps in new window             | <a href="#">link to map</a>  |
| Main area                          | NORTH SEA                    |
| Well name                          | 34/8-6                       |
| Seismic location                   | NH9001 - 597 A SP. 291       |
| Production licence                 | <a href="#">120</a>          |
| Drilling operator                  | Norsk Hydro Produksjon AS    |
| Drill permit                       | 699-L                        |
| Drilling facility                  | <a href="#">TRANSOCEAN 8</a> |
| Drilling days                      | 44                           |
| Entered date                       | 21.09.1991                   |
| Completed date                     | 03.11.1991                   |
| Release date                       | 03.11.1993                   |
| Publication date                   | 27.02.2004                   |
| Purpose - planned                  | WILDCAT                      |
| Reentry                            | NO                           |
| Content                            | SHOWS                        |
| Discovery wellbore                 | NO                           |
| Kelly bushing elevation [m]        | 23.5                         |
| Water depth [m]                    | 376.0                        |
| Total depth (MD) [m RKB]           | 3950.0                       |
| Final vertical depth (TVD) [m RKB] | 3948.0                       |
| Maximum inclination [°]            | 3.8                          |
| Bottom hole temperature [°C]       | 122                          |
| Oldest penetrated age              | EARLY JURASSIC               |
| Oldest penetrated formation        | DRAKE FM                     |
| Geodetic datum                     | ED50                         |
| NS degrees                         | 61° 26' 31.36" N             |
| EW degrees                         | 2° 28' 33.35" E              |
| NS UTM [m]                         | 6812300.64                   |
| EW UTM [m]                         | 472048.81                    |
| UTM zone                           | 31                           |
| NPDID wellbore                     | 1842                         |



## Wellbore history

### General

Well 34/8-6 was designed to drill North of the Visund Field on a northerly trending arm of the Tampen Spur. The main structural feature in block 34/8, the A-structure, is a NNE-SSW oriented elongated rotated fault block with pre-Cretaceous strata dipping towards the WNW. The block contains the Visund field, and is divided into two compartments, the A-south and the A-north, by a central fault. The well will test a stratigraphic trap on the northwest flank of the A-structure. From seismic anomalies possible shallow gas was expected at 510 m, 544 m, 556 m, and 877 m. Levels at 544 m, and 556 m are dipping sand layers, and could contain gas with overpressure. Scattered boulders could be expected between 424 and 540 m.

The primary objective for well 34/8-6 was to test the presence of a hydrocarbon-bearing sand within the Upper Jurassic Draupne Formation, and was drilled close to the thickest portion of the interpreted turbidite sand. Secondary objectives were to drill through the Brent Group to yield more information about development and thickness control down dip of the structural crest, and to tag top of the Dunlin Group to permit a good seismic tie-in, which can be carried up dip towards the Visund reservoir.

### Operations and results

Wildcat well 34/8-6 was spudded with the semi-submersible installation Transocean 8 on 21 September 1991 and at a depth of 3950 m in the Early Jurassic Drake Formation. The well was drilled with spud mud down to 1235 m and with KCl mud from 1235 m to TD. Drilling went on without any significant problems. Shallow gas indications were encountered during drilling of the 8 1/2" pilot hole at 541 m and 550 m, but caused no problems, and no gas was observed at the wellhead during drilling operations. The gas indications did not correspond with any of the predicted sand layers.

There was no sandstone developed at the primary objective in the Draupne Formation. Crude oil appeared in the mud after penetrating a thin (1 m) limestone at 3180 m in the Kyrre Formation. Oil was seen in the mud down to 3500 m, but it was believed that it all came from the limestone at 3180 m. One core was cut in the Draupne Formation from 3572 m to 3584 m. Two runs of sidewall cores were attempted whereof 19 were recovered. The well was permanently abandoned on 3 November 1991 as a dry hole with hydrocarbon shows.

### Testing

No drill stem test was performed

## Cuttings at the Norwegian Offshore Directorate

| Cutting sample, top depth [m] | Cutting samples, bottom depth [m] |
|-------------------------------|-----------------------------------|
| 1240.00                       | 3950.00                           |

|                                  |     |
|----------------------------------|-----|
| 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                  | 3572.0                  | 3584.6                     | [m ]                    |

|                               |      |
|-------------------------------|------|
| Total core sample length [m]  | 12.6 |
| Cores available for sampling? | YES  |

**Core photos**


3572-3577m



3577-3582m



3582-3584m

**Palynological slides at the Norwegian Offshore Directorate**

| Sample depth | Depth unit | Sample type | Laboratory |
|--------------|------------|-------------|------------|
| 1610.0       | [m]        | DC          | RRI        |
| 1630.0       | [m]        | DC          | RRI        |
| 1650.0       | [m]        | DC          | RRI        |
| 1670.0       | [m]        | DC          | RRI        |
| 1690.0       | [m]        | DC          | RRI        |
| 1710.0       | [m]        | DC          | RRI        |
| 1720.0       | [m]        | DC          | RRI        |
| 1750.0       | [m]        | DC          | RRI        |
| 1770.0       | [m]        | DC          | RRI        |
| 1790.0       | [m]        | DC          | RRI        |
| 1810.0       | [m]        | DC          | RRI        |
| 1830.0       | [m]        | DC          | RRI        |
| 1850.0       | [m]        | DC          | RRI        |
| 1870.0       | [m]        | DC          | RRI        |
| 1890.0       | [m]        | DC          | RRI        |
| 1910.0       | [m]        | DC          | RRI        |
| 1920.0       | [m]        | DC          | RRI        |
| 1930.0       | [m]        | DC          | RRI        |



|            |     |       |
|------------|-----|-------|
| 1960.0 [m] | DC  | RRI   |
| 1980.0 [m] | DC  | RRI   |
| 2000.0 [m] | DC  | RRI   |
| 2020.0 [m] | DC  | RRI   |
| 2050.0 [m] | DC  | RRI   |
| 2070.0 [m] | DC  | RRI   |
| 2090.0 [m] | DC  | RRI   |
| 2110.0 [m] | DC  | RRI   |
| 2130.0 [m] | DC  | RRI   |
| 2150.0 [m] | DC  | RRI   |
| 2485.0 [m] | SWC | HYDRO |
| 2667.0 [m] | SWC | HYDRO |
| 3246.0 [m] | SWC | HYDRO |
| 3284.5 [m] | SWC | HYDRO |
| 3305.5 [m] | SWC | HYDRO |
| 3325.0 [m] | SWC | HYDRO |
| 3370.0 [m] | SWC | HYDRO |
| 3401.0 [m] | SWC | HYDRO |
| 3488.0 [m] | SWC | HYDRO |
| 3572.0 [m] | C   | HYDRO |
| 3574.8 [m] | C   | HYDRO |
| 3576.0 [m] | C   | HYDRO |
| 3579.2 [m] | C   | HYDRO |
| 3582.0 [m] | C   | HYDRO |
| 3584.1 [m] | C   | HYDRO |
| 3632.0 [m] | SWC | HYDRO |
| 3676.0 [m] | SWC | HYDRO |

### Lithostratigraphy

| Top depth<br>[mMD RKB] | Lithostrat. unit               |
|------------------------|--------------------------------|
| 400                    | <a href="#">NORDLAND GP</a>    |
| 1159                   | <a href="#">UTSIRA FM</a>      |
| 1178                   | <a href="#">HORDALAND GP</a>   |
| 1402                   | <a href="#">NO FORMAL NAME</a> |
| 1421                   | <a href="#">NO FORMAL NAME</a> |
| 1891                   | <a href="#">ROGALAND GP</a>    |
| 1891                   | <a href="#">BALDER FM</a>      |
| 1916                   | <a href="#">SELE FM</a>        |



|      |                                 |
|------|---------------------------------|
| 1925 | <a href="#">LISTA FM</a>        |
| 2127 | <a href="#">VÅLE FM</a>         |
| 2145 | <a href="#">SHETLAND GP</a>     |
| 2145 | <a href="#">JORSALFARE FM</a>   |
| 2340 | <a href="#">KYRRE FM</a>        |
| 3352 | <a href="#">TRYGGVASON FM</a>   |
| 3418 | <a href="#">CROMER KNOLL GP</a> |
| 3418 | <a href="#">SOLA FM</a>         |
| 3440 | <a href="#">ÅSGARD FM</a>       |
| 3468 | <a href="#">MIME FM</a>         |
| 3477 | <a href="#">VIKING GP</a>       |
| 3477 | <a href="#">DRAUPNE FM</a>      |
| 3581 | <a href="#">HEATHER FM</a>      |
| 3686 | <a href="#">BRENT GP</a>        |
| 3686 | <a href="#">TARBERT FM</a>      |
| 3706 | <a href="#">NESS FM</a>         |
| 3724 | <a href="#">ETIVE FM</a>        |
| 3757 | <a href="#">RANNOCH FM</a>      |
| 3880 | <a href="#">DUNLIN GP</a>       |
| 3880 | <a href="#">DRAKE FM</a>        |

**Composite logs**

| Document name        | Document format | Document size [MB] |
|----------------------|-----------------|--------------------|
| <a href="#">1842</a> | pdf             | 0.51               |

**Geochemical information**

| Document name          | Document format | Document size [MB] |
|------------------------|-----------------|--------------------|
| <a href="#">1842_1</a> | pdf             | 0.92               |

**Documents - older Norwegian Offshore Directorate WDSS reports and other related documents**

| Document name                                    | Document format | Document size [MB] |
|--------------------------------------------------|-----------------|--------------------|
| <a href="#">1842_01_WDSS_General_Information</a> | pdf             | 0.71               |





|                                             |     |      |
|---------------------------------------------|-----|------|
| <a href="#">1842 02 WDSS completion log</a> | pdf | 0.22 |
|---------------------------------------------|-----|------|

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

| Document name                                         | Document format | Document size [MB] |
|-------------------------------------------------------|-----------------|--------------------|
| <a href="#">1842 34 8 6 COMPLETION REPORT AND LOG</a> | pdf             | 13.83              |

**Logs**

| Log type          | Log top depth [m] | Log bottom depth [m] |
|-------------------|-------------------|----------------------|
| CST GR            | 2450              | 3930                 |
| CST GR            | 2515              | 3930                 |
| DIL LSS GR SP AMS | 485               | 1202                 |
| DIL LSS GR SP AMS | 1221              | 2410                 |
| DIL LSS GR SP AMS | 2402              | 3948                 |
| FMS-4 NGT AMS     | 3100              | 3940                 |
| LDL CNL           | 2402              | 3948                 |
| MWD GR RES DIR    | 400               | 3898                 |
| RFT HP GR         | 3686              | 3825                 |
| VSP               | 1110              | 3880                 |

**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                  | 485.0            | 36                | 486.5          | 0.00                     | LOT                 |
| INTERM.     | 18 5/8              | 1219.0           | 24                | 1235.0         | 0.00                     | LOT                 |
| INTERM.     | 13 3/8              | 2407.0           | 17 1/2            | 2423.0         | 1.62                     | LOT                 |
| OPEN HOLE   |                     | 3950.0           | 12 1/4            | 3950.0         | 0.00                     | LOT                 |

**Drilling mud**

| Depth MD [m] | Mud weight [g/cm3] | Visc. [mPa.s] | Yield point [Pa] | Mud type    | Date measured |
|--------------|--------------------|---------------|------------------|-------------|---------------|
| 415          | 1.36               | 14.0          | 5.0              | WATER BASED | 04.11.1991    |
| 415          | 1.46               | 18.0          | 6.0              | WATER BASED | 04.11.1991    |





|      |      |      |      |             |            |
|------|------|------|------|-------------|------------|
| 416  | 1.05 | 22.0 | 17.0 | WATER BASED | 23.09.1991 |
| 487  | 1.20 | 16.0 | 9.0  | WATER BASED | 23.09.1991 |
| 487  | 1.20 | 16.0 | 9.0  | WATER BASED | 24.09.1991 |
| 988  | 1.20 | 17.0 | 9.0  | WATER BASED | 25.09.1991 |
| 1089 | 1.50 | 19.0 | 6.0  | WATER BASED | 04.11.1991 |
| 1207 | 1.20 | 17.0 | 9.0  | WATER BASED | 27.09.1991 |
| 1235 | 1.20 | 16.0 | 9.0  | WATER BASED | 01.10.1991 |
| 1235 | 1.20 | 8.0  | 8.0  | WATER BASED | 01.10.1991 |
| 1235 | 1.20 | 17.0 | 9.0  | WATER BASED | 27.09.1991 |
| 1235 | 1.20 | 16.0 | 8.0  | WATER BASED | 01.10.1991 |
| 1674 | 1.20 | 12.0 | 9.0  | WATER BASED | 01.10.1991 |
| 2164 | 1.30 | 15.0 | 13.0 | WATER BASED | 02.10.1991 |
| 2231 | 1.30 | 14.0 | 13.0 | WATER BASED | 03.10.1991 |
| 2423 | 1.35 | 17.0 | 14.0 | WATER BASED | 04.10.1991 |
| 2423 | 1.35 | 18.0 | 12.0 | WATER BASED | 07.10.1991 |
| 2423 | 1.35 | 16.0 | 10.0 | WATER BASED | 07.10.1991 |
| 2423 | 1.35 | 16.0 | 9.0  | WATER BASED | 08.10.1991 |
| 2423 | 1.35 | 16.0 | 9.0  | WATER BASED | 07.10.1991 |
| 2439 | 1.35 | 14.0 | 9.0  | WATER BASED | 09.10.1991 |
| 2527 | 1.41 | 16.0 | 10.0 | WATER BASED | 10.10.1991 |
| 2780 | 1.40 | 17.0 | 10.0 | WATER BASED | 11.10.1991 |
| 3045 | 1.40 | 17.0 | 9.0  | WATER BASED | 15.10.1991 |
| 3166 | 1.40 | 17.0 | 9.0  | WATER BASED | 15.10.1991 |
| 3223 | 1.45 | 19.0 | 10.0 | WATER BASED | 15.10.1991 |
| 3278 | 1.45 | 19.0 | 10.0 | WATER BASED | 17.10.1991 |
| 3362 | 1.45 | 18.0 | 10.0 | WATER BASED | 17.10.1991 |
| 3365 | 1.45 | 19.0 | 10.0 | WATER BASED | 18.10.1991 |
| 3372 | 1.50 | 20.0 | 11.0 | WATER BASED | 18.10.1991 |
| 3372 | 1.49 | 17.0 | 9.0  | WATER BASED | 21.10.1991 |
| 3372 | 1.49 | 17.0 | 9.0  | WATER BASED | 21.10.1991 |
| 3422 | 1.51 | 19.0 | 10.0 | WATER BASED | 21.10.1991 |
| 3524 | 1.60 | 25.0 | 10.0 | WATER BASED | 22.10.1991 |
| 3576 | 1.60 | 25.0 | 11.0 | WATER BASED | 23.10.1991 |
| 3606 | 1.60 | 24.0 | 9.0  | WATER BASED | 24.10.1991 |
| 3690 | 1.61 | 25.0 | 9.0  | WATER BASED | 25.10.1991 |
| 3795 | 1.61 | 25.0 | 10.0 | WATER BASED | 29.10.1991 |
| 3950 | 1.60 | 23.0 | 8.0  | WATER BASED | 29.10.1991 |
| 3950 | 1.60 | 23.0 | 8.0  | WATER BASED | 29.10.1991 |
| 3950 | 1.60 | 25.0 | 10.0 | WATER BASED | 31.10.1991 |
| 3950 | 1.50 | 17.0 | 4.0  | WATER BASED | 01.11.1991 |

**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="#">1842 Formation pressure (Formasjonstrykk)</a> | pdf             | 0.22               |

