



## **General information**





|                                    |                                |
|------------------------------------|--------------------------------|
| Wellbore name                      | 30/6-14                        |
| Type                               | EXPLORATION                    |
| Purpose                            | WILDCAT                        |
| Status                             | P&A                            |
| Factmaps in new window             | <a href="#">link to map</a>    |
| Main area                          | NORTH SEA                      |
| Discovery                          | <a href="#">30/6-14</a>        |
| Well name                          | 30/6-14                        |
| Seismic location                   | ST 8006 - 402 SP 202           |
| Production licence                 | <a href="#">053</a>            |
| Drilling operator                  | Norsk Hydro Produksjon AS      |
| Drill permit                       | 398-L                          |
| Drilling facility                  | <a href="#">TREASURE SCOUT</a> |
| Drilling days                      | 54                             |
| Entered date                       | 17.12.1983                     |
| Completed date                     | 08.02.1984                     |
| Release date                       | 08.02.1986                     |
| Publication date                   | 29.03.2014                     |
| Purpose - planned                  | WILDCAT                        |
| Reentry                            | NO                             |
| Content                            | OIL                            |
| Discovery wellbore                 | YES                            |
| 1st level with HC, age             | EARLY JURASSIC                 |
| 1st level with HC, formation       | STATFJORD GP                   |
| Kelly bushing elevation [m]        | 23.0                           |
| Water depth [m]                    | 148.0                          |
| Total depth (MD) [m RKB]           | 2900.0                         |
| Final vertical depth (TVD) [m RKB] | 2900.0                         |
| Maximum inclination [°]            | 3                              |
| Bottom hole temperature [°C]       | 114                            |
| Oldest penetrated age              | EARLY JURASSIC                 |
| Oldest penetrated formation        | STATFJORD GP                   |
| Geodetic datum                     | ED50                           |
| NS degrees                         | 60° 38' 7.69" N                |
| EW degrees                         | 2° 59' 21.76" E                |
| NS UTM [m]                         | 6722344.00                     |
| EW UTM [m]                         | 499418.89                      |
| UTM zone                           | 31                             |
| NPDID wellbore                     | 53                             |



## Wellbore history

### General

Well 30/6-14 was drilled on the Zeta structure on the Brage Horst, east of the main Oseberg Alpha structure and south of the Oseberg Beta structure. The primary objectives for the well were to find hydrocarbons in the Brent Group, and to find additional hydrocarbon accumulations within possible Early and Late Jurassic sandstone deposits. Planned TD of the well was ca 3100 m or 75 m into the Statfjord Formation.

### Operations and results

Wildcat well 30/6-14 was spudded with the semi-submersible installation Treasure Scout on 17 December 1983 and drilled to TD at 2900 m in the Early Jurassic Statfjord Group. No significant problems occurred in the operations. The well was drilled using water based mud. The well was drilled with spud mud down to 618 m, with KCl/polymer mud from 618 m to 1675 m,

Top Brent Group was penetrated at 2650 m and top Drake Formation at 2589 with an Intra Drake Sand at 2605 to 2621 m. Both Brent and Drake were found water bearing. Hydrocarbons were encountered in the top of the Early Jurassic Statfjord Group from 2783.5 m down to a depth of 2789 m. RFT pressures indicated the free water level to be at 2790 m. No additional hydrocarbon bearing reservoirs were encountered. Apart from spots of cut fluorescence on claystones in the Drake Formation no oil shows were recorded outside of the Statfjord Group hydrocarbon bearing reservoir.

Three cores were cut in the Jurassic sequence, one from 2561 to 2567.6 m in the Etive Formation, one from 2608 to 2621.2 m in the Drake Formation, and one from 2785 to 2800 m in the upper part of the Statfjord Group. No wire line fluid samples were taken.

The well was permanently abandoned on 8 February 1984 as an oil discovery.

### Testing

Two DST's were performed in the oil zone in the Statfjord Formation.

DST no 1 (2783 - 2787 m) produced no formation fluid to the surface, but 12.7 m<sup>3</sup> /day of diesel cushion was produced through a 128/64" choke. Oil samples were recovered when reversing out the test tubing content. The oil gravity was 36 deg API. The bottom hole temperature was 103.3 deg C.

DST no 1A was a re-perforation of the same interval as in DST no 1, with one additional meter (2783 - 2788 m). The purpose was to improve the poor results from DST no 1. Again only small amounts of oil were produced: 19.8 m<sup>3</sup> diesel cushion /day through a 128/64" choke. No crude oil was produced to surface. Oil samples from reversing out the test tubing had a gravity of 38 deg API. The bottom hole temperature was 110 deg C.

## Cuttings at the Norwegian Offshore Directorate

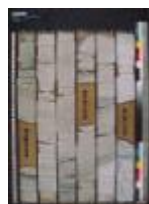
| Cutting sample, top depth [m] | Cutting samples, bottom depth [m] |
|-------------------------------|-----------------------------------|
| 270.00                        | 2900.00                           |

|                                  |     |
|----------------------------------|-----|
| 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                  | 2566.1                  | 2567.6                     | [m ]                    |
| 2                  | 2608.0                  | 2621.2                     | [m ]                    |
| 3                  | 2785.0                  | 2798.5                     | [m ]                    |

|                               |      |
|-------------------------------|------|
| Total core sample length [m]  | 28.2 |
| Cores available for sampling? | YES  |

**Core photos**


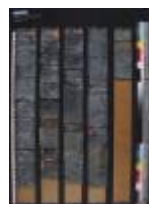
2561-2567m



2567-2612m



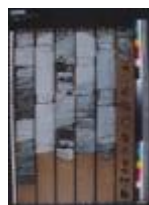
2612-2617m



2617-2621m



2785-2789m



2789-2794m



2794-2798m

**Palynological slides at the Norwegian Offshore Directorate**

| Sample depth | Depth unit | Sample type | Laboratory |
|--------------|------------|-------------|------------|
| 2265.0       | [m]        | DC          | PETROSTR   |
| 2270.0       | [m]        | DC          | PETROS     |
| 2275.0       | [m]        | DC          | PETROS     |
| 2280.0       | [m]        | DC          | PETROS     |
| 2285.0       | [m]        | DC          | PETROS     |
| 2290.0       | [m]        | DC          | PETROS     |
| 2295.0       | [m]        | DC          | PETROS     |
| 2300.0       | [m]        | DC          | PETROS     |
| 2305.0       | [m]        | DC          | PETROS     |



|        |     |    |        |
|--------|-----|----|--------|
| 2310.0 | [m] | DC | PETROS |
| 2315.0 | [m] | DC | PETROS |
| 2320.0 | [m] | DC | PETROS |
| 2325.0 | [m] | DC | PETROS |
| 2330.0 | [m] | DC | PETROS |
| 2335.0 | [m] | DC | PETROS |
| 2340.0 | [m] | DC | PETROS |
| 2345.0 | [m] | DC | PETROS |
| 2350.0 | [m] | DC | PETROS |
| 2355.0 | [m] | DC | PETROS |
| 2360.0 | [m] | DC | PETROS |
| 2365.0 | [m] | DC | PETROS |
| 2370.0 | [m] | DC | PETROS |
| 2375.0 | [m] | DC | PETROS |
| 2380.0 | [m] | DC | PETROS |
| 2385.0 | [m] | DC | PETROS |
| 2395.0 | [m] | DC | PETROS |
| 2405.0 | [m] | DC | PETROS |
| 2415.0 | [m] | DC | PETROS |

### Oil samples at the Norwegian Offshore Directorate

| Test type | Bottle number | Top depth MD [m] | Bottom depth MD [m] | Fluid type | Test time          | Samples available |
|-----------|---------------|------------------|---------------------|------------|--------------------|-------------------|
| DST       | DST1A         | 2783.00          | 2788.00             |            | 29.01.1984 - 00:00 | YES               |

### Lithostratigraphy

| Top depth [mMD RKB] | Lithostrat. unit             |
|---------------------|------------------------------|
| 171                 | <a href="#">NORDLAND GP</a>  |
| 706                 | <a href="#">UTSIRA FM</a>    |
| 854                 | <a href="#">HORDALAND GP</a> |
| 1857                | <a href="#">ROGALAND GP</a>  |
| 1857                | <a href="#">BALDER FM</a>    |
| 1920                | <a href="#">SELE FM</a>      |
| 1952                | <a href="#">LISTA FM</a>     |
| 2098                | <a href="#">VÅLE FM</a>      |



|      |                                     |
|------|-------------------------------------|
| 2122 | <a href="#">SHETLAND GP</a>         |
| 2252 | <a href="#">CROMER KNOLL GP</a>     |
| 2275 | <a href="#">VIKING GP</a>           |
| 2275 | <a href="#">DRAUPNE FM</a>          |
| 2334 | <a href="#">HEATHER FM</a>          |
| 2407 | <a href="#">INTRA HEATHER FM SS</a> |
| 2432 | <a href="#">HEATHER FM</a>          |
| 2560 | <a href="#">BRENT GP</a>            |
| 2560 | <a href="#">ETIVE FM</a>            |
| 2589 | <a href="#">DUNLIN GP</a>           |
| 2589 | <a href="#">DRAKE FM</a>            |
| 2679 | <a href="#">COOK FM</a>             |
| 2696 | <a href="#">BURTON FM</a>           |
| 2734 | <a href="#">AMUNDSEN FM</a>         |
| 2784 | <a href="#">STATFJORD GP</a>        |
| 2784 | <a href="#">NANSEN FM</a>           |
| 2799 | <a href="#">EIRIKSSON FM</a>        |
| 2855 | <a href="#">RAUDE FM</a>            |

**Geochemical information**

| Document name        | Document format | Document size [MB] |
|----------------------|-----------------|--------------------|
| <a href="#">53_1</a> | pdf             | 0.27               |
| <a href="#">53_2</a> | pdf             | 0.55               |

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

| Document name                                  | Document format | Document size [MB] |
|------------------------------------------------|-----------------|--------------------|
| <a href="#">53_01_WDSS_General_Information</a> | pdf             | 0.18               |
| <a href="#">53_02_WDSS_completion_log</a>      | pdf             | 0.27               |

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

| Document name                                | Document format | Document size [MB] |
|----------------------------------------------|-----------------|--------------------|
| <a href="#">53_30_6_14_COMPLETION_LOG</a>    | pdf             | 1.96               |
| <a href="#">53_30_6_14_COMPLETION_REPORT</a> | pdf             | 9.59               |







### Drill stem tests (DST)

| Test number | From depth MD [m] | To depth MD [m] | Choke size [mm] |
|-------------|-------------------|-----------------|-----------------|
| 1.0         | 2783              | 2787            | 50.8            |
| 1.1         | 2783              | 2788            | 50.8            |

| Test number | Final shut-in pressure [MPa] | Final flow pressure [MPa] | Bottom hole pressure [MPa] | Downhole temperature [°C] |
|-------------|------------------------------|---------------------------|----------------------------|---------------------------|
| 1.0         |                              |                           |                            |                           |
| 1.1         |                              |                           |                            |                           |

| Test number | Oil [Sm3/day] | Gas [Sm3/day] | Oil density [g/cm3] | Gas grav. rel.air | GOR [m3/m3] |
|-------------|---------------|---------------|---------------------|-------------------|-------------|
| 1.0         | 13            |               | 0.845               |                   |             |
| 1.1         | 20            |               | 0.835               |                   |             |

### Logs

| Log type        | Log top depth [m] | Log bottom depth [m] |
|-----------------|-------------------|----------------------|
| CBL VDL         | 295               | 1640                 |
| CBL VDL         | 1295              | 2824                 |
| CST             | 2429              | 2075                 |
| CST             | 2905              | 2440                 |
| DLL MSFL CAL GR | 2600              | 2900                 |
| ISF SON         | 601               | 1647                 |
| ISF SON         | 618               | 258                  |
| ISF SON         | 1649              | 2905                 |
| LDT             | 601               | 1648                 |
| LDT CNL         | 1649              | 2905                 |
| NGT             | 2225              | 2905                 |
| RFT             | 2421              | 2851                 |
| SHDT            | 1800              | 2903                 |
| VELOCITY        | 354               | 2905                 |

### 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                     | 258.0               | 36                   | 260.0             | 0.00                           | LOT                    |
| SURF.COND.  | 20                     | 601.0               | 26                   | 618.0             | 1.79                           | LOT                    |
| INTERM.     | 13 3/8                 | 1648.0              | 17 1/2               | 1675.0            | 1.74                           | LOT                    |
| INTERM.     | 9 5/8                  | 2885.0              | 12 1/4               | 2900.0            | 0.00                           | 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 |
|-----------------|--------------------------|------------------|---------------------|-------------|------------------|
| 495             | 1.10                     | 53.0             |                     | WATER BASED |                  |
| 1365            | 1.12                     | 50.0             |                     | WATER BASED |                  |
| 1650            | 1.13                     | 45.0             |                     | WATER BASED |                  |
| 1710            | 1.25                     | 45.0             |                     | WATER BASED |                  |
| 2195            | 1.24                     | 45.0             |                     | WATER BASED |                  |
| 2280            | 1.25                     | 54.0             |                     | WATER BASED |                  |
| 2360            | 1.24                     | 50.0             |                     | WATER BASED |                  |

**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="#">53 Formation pressure (Formasjonstrykk)</a> | pdf                | 0.24                  |

