

**General information**

|                              |                                 |
|------------------------------|---------------------------------|
| Wellbore name                | 30/7-7                          |
| Type                         | EXPLORATION                     |
| Purpose                      | WILDCAT                         |
| Status                       | P&A                             |
| Factmaps in new window       | <a href="#">link to map</a>     |
| Main area                    | NORTH SEA                       |
| Well name                    | 30/7-7                          |
| Seismic location             |                                 |
| Production licence           | <a href="#">040</a>             |
| Drilling operator            | Norsk Hydro Produksjon AS       |
| Drill permit                 | 207-L                           |
| Drilling facility            | <a href="#">TREASURE SEEKER</a> |
| Drilling days                | 196                             |
| Entered date                 | 18.12.1978                      |
| Completed date               | 01.07.1979                      |
| Release date                 | 01.07.1981                      |
| Publication date             | 24.09.2004                      |
| Purpose - planned            | WILDCAT                         |
| Reentry                      | NO                              |
| Content                      | GAS SHOWS                       |
| Discovery wellbore           | NO                              |
| Kelly bushing elevation [m]  | 25.0                            |
| Water depth [m]              | 110.0                           |
| Total depth (MD) [m RKB]     | 5127.0                          |
| Maximum inclination [°]      | 17.4                            |
| Bottom hole temperature [°C] | 167                             |
| Oldest penetrated age        | LATE TRIASSIC                   |
| Oldest penetrated formation  | STATFJORD GP                    |
| Geodetic datum               | ED50                            |
| NS degrees                   | 60° 16' 19.3" N                 |
| EW degrees                   | 2° 16' 7.3" E                   |
| NS UTM [m]                   | 6682087.96                      |
| EW UTM [m]                   | 459543.34                       |
| UTM zone                     | 31                              |
| NPDID wellbore               | 390                             |



## Wellbore history

### General

The main objective of the well was to test the SE prospect on the 30/7 block. The objective of the well was to test possible sandstone reservoirs of Jurassic age, which were predicted to occur in a large structure (150 km<sup>2</sup>) at the Kimmerian unconformity located on the eastern flank of the Viking basin. The specific targets were possible turbiditic sandstone deposits within a thick Late Jurassic sequence, Middle Jurassic Brent Formation sandstones, and Early Jurassic Statfjord Formation sandstones. The well was planned to penetrate 50 m into the Statfjord Formation to approximately 5250 m.

The well is Reference Well for the Cook Formation.

### Operations and results

The well 30/7-7 was drilled between December 16th 1978 and May 30th 1979 with the rig Treasure Seeker. It reached TD at 5127 m in the Early Jurassic/Late Triassic Statfjord Formation. 34.5% of the total rig time was lost time due to fishing, waiting on weather, waiting for replacement of equipment, and hole problems. The problem that had most serious consequences for the geological program occurred while reaming from 5114 m to 5125 m where the string got stuck. After 9.5 days of fishing for the drill string it was finally backed off at 4804 m. At this point it was decided to abandon the well leaving the fish in the hole. Before this happened the well had been logged down to 5122 m, but the fish made it impossible to test the Statfjord Formation sandstone. The well was drilled with Seawater/gel/hi-vis pills spotting LCM pills as needed down to 763 m and with a Spersene/XP20/Drispac mud with 0 % to 4% oil and LCM pills as needed from 763 m to TD.

Sandstone levels interbedded with shales were encountered below 2187 m in the Tertiary. They were mainly developed between 2216 and 2320 m. Some calcareous levels in the Maastrichtian limestones between 2531 and 2575 m could be considered as reservoirs. Limestone stringers in the Turonian calcareous section from 3520 m to 3720 m showed fluorescence but were water-bearing. A 636 m thick Upper Jurassic sequence was penetrated, consisting of shales and thin interbedded limestones and dolomites. No turbiditic sandstones occurred. The expected well-developed Middle Jurassic deposits were found to be completely missing. No Middle Jurassic sandstones were encountered. Two reservoir intervals were present in the Early Jurassic. The Upper Sandstone from 4735 m to 4801 m (Cook Formation) consisted of interbedded sandstones and shales. The Lower Sandstone (Statfjord Formation) was penetrated at 4884 m and extended as a homogeneous sandstone with only a single coal bed and minor argillaceous intervals down to 4975 m. Below this a sequence of interbedded sandstones, siltstones and claystones/shales occurred down to TD.

Shows were recorded as follows: Major gas shows appeared in the interval 3502 m to 3930 m (Turonian limestones) and from 4723 m to 4886 m (Lower Jurassic, calcareous sands). Oil Shows and Fluorescence were noted from 2315 m to 2320 m on sandstone (traces of light brown stain, golden fluorescence, fast streaming light yellow cut); from 2805 m to 2813 m on siltstone (dark yellowish brown stain, light yellow fluorescence, white slowly streaming cut); from 3709 m to 3730 m in limestone (traces of slow, white, streaming cut hydrocarbon fluorescence masked by mineral fluorescence); and from 3908 m to 3912 m in shale (no fluorescence, uniform, weak dull yellow crush-cut and light yellow residue).

There were no significant hydrocarbon shows observed during drilling the Jurassic sequence. However, log analyses indicated hydrocarbons in both Jurassic sandstone intervals. The Upper Sandstone (Cook Formation) was hydrocarbon bearing from 4735 m to 4776 m while the Lower Sandstone (Statfjord Formation) was hydrocarbon bearing from 4884 m to 4924 m. The lack of oil shows in the Jurassic and the DST results indicated the hydrocarbons could be gas in a tight formation. One conventional core was



cut from 4758 m to 4766.4 m (recovery 96%) in the Cook Formation. The core consisted of 7.15 m cemented fine to very fine sandstone with 1.25 m of shale at the base. No RFT fluid samples were attempted due to bad hole conditions. The planned TD was not reached because of the drill string left in the hole. The well was permanently abandoned as a well with shows on 1 July 1979.

**Testing**

A drill stem test (DST 1) was performed on the upper sandstone (4735 m to 4797 m). An approximate volume of 12 m<sup>3</sup> of effluent was recovered in about 4 hours from DST 1. The effluent was not considered representative of the Formation fluid. During the reverse circulation no gas flow occurred, only gas bubbles were observed. The composition of these bubbles was 10% CO<sub>2</sub>, 77.4% C1 9.4% C2, and C3+ up to 100%. The tested level was considered tight. The lower sandstone was not tested due to the broken drill string (fish between 4807 m and 5127 m).

**Cuttings at the Norwegian Offshore Directorate**

| Cutting sample, top depth [m] | Cutting samples, bottom depth [m] |
|-------------------------------|-----------------------------------|
| 185.00                        | 5060.00                           |

|                                  |    |
|----------------------------------|----|
| Cuttings available for sampling? | NO |
|----------------------------------|----|

**Cores at the Norwegian Offshore Directorate**

| Core sample number | Core sample - top depth | Core sample - bottom depth | Core sample depth - uom |
|--------------------|-------------------------|----------------------------|-------------------------|
| 1                  | 4758.3                  | 4767.0                     | [m ]                    |

|                               |     |
|-------------------------------|-----|
| Total core sample length [m]  | 8.7 |
| Cores available for sampling? | NO  |

**Palynological slides at the Norwegian Offshore Directorate**

| Sample depth | Depth unit | Sample type | Laboratory |
|--------------|------------|-------------|------------|
| 870.0        | [m]        | DC          | ROBERTSO   |
| 900.0        | [m]        | DC          | ROBERT     |
| 930.0        | [m]        | DC          | ROBERT     |
| 960.0        | [m]        | DC          | ROBERT     |
| 990.0        | [m]        | DC          | ROBERT     |
| 1020.0       | [m]        | DC          | ROBERT     |
| 1050.0       | [m]        | DC          | ROBERT     |
| 1080.0       | [m]        | DC          | ROBERT     |
| 1110.0       | [m]        | DC          | ROBERT     |



|            |    |        |
|------------|----|--------|
| 1140.0 [m] | DC | ROBERT |
| 1170.0 [m] | DC | ROBERT |
| 1200.0 [m] | DC | ROBERT |
| 1230.0 [m] | DC | ROBERT |
| 1260.0 [m] | DC | ROBERT |
| 1290.0 [m] | DC | ROBERT |
| 1320.0 [m] | DC | ROBERT |
| 1350.0 [m] | DC | ROBERT |
| 1380.0 [m] | DC | ROBERT |
| 1410.0 [m] | DC | ROBERT |
| 1440.0 [m] | DC | ROBERT |
| 1470.0 [m] | DC | ROBERT |
| 1500.0 [m] | DC | ROBERT |
| 1530.0 [m] | DC | ROBERT |
| 1560.0 [m] | DC | ROBERT |
| 1590.0 [m] | DC | ROBERT |
| 1600.0 [m] | DC |        |
| 1620.0 [m] | DC |        |
| 1620.0 [m] | DC | ROBERT |
| 1640.0 [m] | DC |        |
| 1650.0 [m] | DC | ROBERT |
| 1660.0 [m] | DC |        |
| 1680.0 [m] | DC | ROBERT |
| 1680.0 [m] | DC |        |
| 1700.0 [m] | DC |        |
| 1710.0 [m] | DC | ROBERT |
| 1720.0 [m] | DC |        |
| 1740.0 [m] | DC |        |
| 1740.0 [m] | DC | ROBERT |
| 1760.0 [m] | DC |        |
| 1770.0 [m] | DC | ROBERT |
| 1780.0 [m] | DC |        |
| 1800.0 [m] | DC |        |
| 1800.0 [m] | DC | ROBERT |
| 1820.0 [m] | DC |        |
| 1830.0 [m] | DC | ROBERT |
| 1840.0 [m] | DC |        |
| 1860.0 [m] | DC |        |
| 1860.0 [m] | DC | ROBERT |
| 1880.0 [m] | DC |        |



|        |     |    |        |
|--------|-----|----|--------|
| 1890.0 | [m] | DC | ROBERT |
| 1900.0 | [m] | DC |        |
| 1920.0 | [m] | DC |        |
| 1920.0 | [m] | DC | ROBERT |
| 1940.0 | [m] | DC |        |
| 1950.0 | [m] | DC | ROBERT |
| 1960.0 | [m] | DC |        |
| 1980.0 | [m] | DC |        |
| 1980.0 | [m] | DC | ROBERT |
| 2000.0 | [m] | DC |        |
| 2010.0 | [m] | DC | ROBERT |
| 2020.0 | [m] | DC |        |
| 2040.0 | [m] | DC |        |
| 2040.0 | [m] | DC | ROBERT |
| 2060.0 | [m] | DC |        |
| 2070.0 | [m] | DC | ROBERT |
| 2080.0 | [m] | DC |        |
| 2100.0 | [m] | DC |        |
| 2100.0 | [m] | DC | ROBERT |
| 2120.0 | [m] | DC |        |
| 2130.0 | [m] | DC | ROBERT |
| 2140.0 | [m] | DC |        |
| 2150.0 | [m] | DC |        |
| 2160.0 | [m] | DC | ROBERT |
| 2170.0 | [m] | DC |        |
| 2180.0 | [m] | DC |        |
| 2190.0 | [m] | DC | ROBERT |
| 2200.0 | [m] | DC |        |
| 2215.0 | [m] | DC |        |
| 2220.0 | [m] | DC | ROBERT |
| 2225.0 | [m] | DC |        |
| 2240.0 | [m] | DC |        |
| 2250.0 | [m] | DC | ROBERT |
| 2275.0 | [m] | DC |        |
| 2280.0 | [m] | DC | ROBERT |
| 2295.0 | [m] | DC |        |
| 2310.0 | [m] | DC |        |
| 2310.0 | [m] | DC | ROBERT |
| 2325.0 | [m] | DC |        |
| 2340.0 | [m] | DC | ROBERT |



|        |     |     |          |
|--------|-----|-----|----------|
| 2350.0 | [m] | DC  |          |
| 2370.0 | [m] | DC  |          |
| 2370.0 | [m] | DC  | ROBERT   |
| 2390.0 | [m] | DC  |          |
| 2400.0 | [m] | DC  |          |
| 2400.0 | [m] | DC  | ROBERT   |
| 2415.0 | [m] | DC  |          |
| 2430.0 | [m] | DC  |          |
| 2430.0 | [m] | DC  | ROBERT   |
| 2440.0 | [m] | DC  |          |
| 2460.0 | [m] | DC  |          |
| 2460.0 | [m] | DC  | ROBERT   |
| 2480.0 | [m] | DC  |          |
| 2490.0 | [m] | DC  | ROBERT   |
| 2500.0 | [m] | DC  |          |
| 2510.0 | [m] | DC  |          |
| 2520.0 | [m] | DC  | ROBERT   |
| 2520.0 | [m] | DC  |          |
| 2520.0 | [m] | DC  |          |
| 2530.0 | [m] | DC  |          |
| 2540.0 | [m] | DC  |          |
| 3865.0 | [m] | DC  | CFP-LABO |
| 3880.0 | [m] | SWC | SNEA(P)  |
| 3883.0 | [m] | SWC | SNEA(P   |
| 3884.5 | [m] | SWC | SNEA(P   |
| 3890.0 | [m] | DC  | CFP-LABO |
| 3900.0 | [m] | DC  | CFP-LA   |
| 3900.0 | [m] | SWC | SNEA(P)  |
| 3915.0 | [m] | SWC | SNEA(P   |
| 3916.0 | [m] | DC  | CFP-LABO |
| 3924.0 | [m] | DC  | CFP-LA   |
| 3934.0 | [m] | DC  | CFP-LA   |
| 3934.0 | [m] | SWC | SNEA(P)  |
| 3952.0 | [m] | DC  | CFP-LAB  |
| 3980.0 | [m] | DC  | CFP-LA   |
| 3997.0 | [m] | SWC | SNEA(P)  |
| 4006.0 | [m] | DC  | CFP-LABO |
| 4022.0 | [m] | DC  | CFP-LA   |
| 4040.0 | [m] | DC  | CFP-LA   |
| 4050.0 | [m] | DC  | CFP-LA   |



|            |     |          |
|------------|-----|----------|
| 4060.0 [m] | DC  | CFP-LA   |
| 4070.0 [m] | DC  | CFP-LA   |
| 4098.0 [m] | DC  | CFP-LA   |
| 4125.0 [m] | DC  | IKU      |
| 4128.0 [m] | SWC | SNEA(P)  |
| 4145.0 [m] | SWC | IKU      |
| 4148.0 [m] | DC  | CFP-LABO |
| 4150.0 [m] | DC  | CFP-LA   |
| 4164.0 [m] | DC  | CFP-LA   |
| 4165.0 [m] | SWC | IKU      |
| 4165.0 [m] | SWC | SNEA(P)  |
| 4187.0 [m] | SWC | IKU      |
| 4190.0 [m] | DC  | CFP-LABO |
| 4205.0 [m] | SWC | IKU      |
| 4230.0 [m] | SWC | IKU      |
| 4230.0 [m] | DC  | CFP-LABO |
| 4248.0 [m] | SWC | SNEA(P)  |
| 4250.0 [m] | DC  | CFP-LABO |
| 4255.0 [m] | SWC | IKU      |
| 4264.0 [m] | DC  | CFP-LABO |
| 4275.0 [m] | SWC | IKU      |
| 4284.0 [m] | DC  | CFP-LABO |
| 4285.0 [m] | SWC | IKU      |
| 4285.0 [m] | SWC | SNEA(P)  |
| 4302.0 [m] | SWC | SNEA(P)  |
| 4302.0 [m] | DC  | CFP-LABO |
| 4302.0 [m] | SWC | IKU      |
| 4305.0 [m] | SWC | IKU      |
| 4330.0 [m] | SWC | IKU      |
| 4331.0 [m] | SWC | SNEA(P)  |
| 4336.0 [m] | DC  | CFP-LABO |
| 4350.0 [m] | DC  | CFP-LA   |
| 4350.0 [m] | DC  | CFP-LA   |
| 4358.0 [m] | DC  | CFP-LA   |
| 4370.0 [m] | DC  | CFP-LA   |
| 4381.0 [m] | SWC | IKU      |
| 4398.5 [m] | SWC | IKU      |
| 4398.5 [m] | SWC | SNEA(P)  |
| 4408.0 [m] | DC  | CFP-LABO |
| 4430.0 [m] | DC  | CFP-LA   |



|            |     |          |
|------------|-----|----------|
| 4450.0 [m] | DC  | CFP-LA   |
| 4450.0 [m] | SWC | IKU      |
| 4460.0 [m] | DC  | CFP-LABO |
| 4474.0 [m] | DC  | CFP-LA   |
| 4478.0 [m] | SWC | SNEA(P)  |
| 4478.0 [m] | SWC | IKU      |
| 4492.0 [m] | DC  | IKU      |
| 4494.0 [m] | DC  | IKU      |
| 4498.0 [m] | DC  | HYDRO    |
| 4500.0 [m] | SWC | IKU      |
| 4502.0 [m] | DC  | IKU      |
| 4504.0 [m] | DC  | HYDRO    |
| 4506.0 [m] | DC  | IKU      |
| 4508.0 [m] | DC  | CFP-LABO |
| 4510.0 [m] | DC  | HYDRO    |
| 4514.0 [m] | DC  | HYDRO    |
| 4515.0 [m] | SWC | IKU      |
| 4516.0 [m] | DC  | IKU      |
| 4520.0 [m] | DC  | HYDRO    |
| 4520.0 [m] | DC  | HYDRO    |
| 4520.0 [m] | SWC | SNEA(P)  |
| 4530.0 [m] | SWC | IKU      |
| 4536.0 [m] | DC  | IKU      |
| 4540.0 [m] | DC  | CFP-LABO |
| 4548.0 [m] | DC  | CFP-LA   |
| 4552.0 [m] | DC  | IKU      |
| 4560.0 [m] | DC  | CFP-LABO |
| 4560.0 [m] | SWC | IKU      |
| 4560.0 [m] | DC  | IKU      |
| 4560.0 [m] | DC  | HYDRO    |
| 4570.0 [m] | DC  | SNEA(P)  |
| 4570.0 [m] | DC  | HYDRO    |
| 4575.0 [m] | SWC | IKU      |
| 4580.0 [m] | DC  | CFP-LABO |
| 4580.0 [m] | DC  | HYDRO    |
| 4592.0 [m] | DC  | IKU      |
| 4608.0 [m] | DC  | CFP-LABO |
| 4610.0 [m] | DC  | IKU      |
| 4615.0 [m] | DC  | SNEA(P)  |
| 4620.0 [m] | SWC | IKU      |



|            |     |          |
|------------|-----|----------|
| 4632.0 [m] | DC  | CFP-LABO |
| 4632.0 [m] | DC  | IKU      |
| 4650.0 [m] | DC  | CFP-LABO |
| 4652.0 [m] | DC  | IKU      |
| 4652.0 [m] | DC  | CFP-LA   |
| 4665.0 [m] | SWC | IKU      |
| 4672.0 [m] | DC  | IKU      |
| 4674.0 [m] | DC  | CFP-LABO |
| 4692.0 [m] | DC  | IKU      |
| 4698.0 [m] | DC  | CFP-LABO |
| 4700.0 [m] | DC  | CFP-LA   |
| 4704.0 [m] | SWC | SNEA(P)  |
| 4704.0 [m] | SWC | IKU      |
| 4710.0 [m] | DC  | CFP-LAB  |
| 4710.0 [m] | DC  | CFP-LA   |
| 4712.0 [m] | DC  | IKU      |
| 4720.0 [m] | SWC | IKU      |
| 4720.0 [m] | SWC | SNEA(P)  |
| 4726.0 [m] | DC  | CFP-LAB  |
| 4732.0 [m] | DC  | IKU      |
| 4740.0 [m] | DC  | IKU      |
| 4744.0 [m] | SWC | IKU      |
| 4744.0 [m] | DC  | CFP-LAB  |
| 4750.0 [m] | SWC | IKU      |
| 4750.0 [m] | SWC | SNEA(P)  |
| 4750.0 [m] | DC  | IKU      |
| 4751.0 [m] | SWC | IKU      |
| 4752.0 [m] | DC  | IKU      |
| 4758.0 [m] | DC  | CFP-LAB  |
| 4758.5 [m] | C   | SNEA(P)  |
| 4759.0 [m] | C   | UNKNOWN  |
| 4760.7 [m] | C   | SNEA(P)  |
| 4760.8 [m] | C   | HYDRO    |
| 4761.0 [m] | C   | UNKNOWN  |
| 4762.7 [m] | C   | SNEA(P)  |
| 4764.5 [m] | C   | HYDRO    |
| 4765.1 [m] | C   | SNEA(P)  |
| 4765.8 [m] | C   | UNKNOWN  |
| 4766.0 [m] | C   | SNEA(P)  |
| 4766.2 [m] | C   | HYDRO    |



|            |     |          |
|------------|-----|----------|
| 4766.4 [m] | C   | U.OF SHE |
| 4766.5 [m] | C   | UNKNOWN  |
| 4766.6 [m] | C   | U.OF SHE |
| 4766.8 [m] | C   | U.OF S   |
| 4767.0 [m] | C   | UNKNOWN  |
| 4772.0 [m] | DC  | CFP-LAB  |
| 4772.0 [m] | DC  | IKU      |
| 4775.0 [m] | SWC | SNEA(P)  |
| 4790.0 [m] | DC  | CFP-LAB  |
| 4792.0 [m] | DC  | IKU      |
| 4799.0 [m] | SWC | IKU      |
| 4800.0 [m] | DC  | CFP-LAB  |
| 4800.0 [m] | DC  | SNEA(P)  |
| 4804.0 [m] | SWC | SNEA(P   |
| 4804.0 [m] | SWC | IKU      |
| 4812.0 [m] | DC  | IKU      |
| 4812.0 [m] | DC  | IKU      |
| 4818.0 [m] | DC  | CFP-LAB  |
| 4832.0 [m] | DC  | IKU      |
| 4840.0 [m] | DC  | SNEA(P)  |
| 4852.0 [m] | DC  | IKU      |
| 4872.0 [m] | DC  | IKU      |
| 4880.0 [m] | DC  | SNEA(P)  |
| 4892.0 [m] | DC  | IKU      |
| 4912.0 [m] | DC  | IKU      |
| 4920.0 [m] | DC  | SNEA(P)  |
| 4924.0 [m] | DC  | SNEA(P   |
| 4932.0 [m] | DC  | IKU      |
| 4940.0 [m] | DC  | IKU      |
| 4952.0 [m] | DC  | IKU      |
| 4954.0 [m] | DC  | IKU      |
| 4956.0 [m] | DC  | IKU      |
| 4960.0 [m] | DC  | SNEA(P)  |
| 4972.0 [m] | DC  | IKU      |
| 4992.0 [m] | DC  | IKU      |
| 5012.0 [m] | DC  | IKU      |
| 5032.0 [m] | DC  | IKU      |
| 5038.0 [m] | DC  | SNEA(P)  |
| 5046.0 [m] | DC  | IKU      |
| 5050.0 [m] | DC  | IKU      |



|        |     |    |         |
|--------|-----|----|---------|
| 5058.0 | [m] | DC | IKU     |
| 5080.0 | [m] | DC | SNEA(P) |
| 5110.0 | [m] | DC | SNEA(P) |

**Lithostratigraphy**

| Top depth<br>[mMD RKB] | Lithostrat. unit                |
|------------------------|---------------------------------|
| 135                    | <a href="#">NORDLAND GP</a>     |
| 449                    | <a href="#">UTSIRA FM</a>       |
| 801                    | <a href="#">HORDALAND GP</a>    |
| 801                    | <a href="#">SKADE FM</a>        |
| 1167                   | <a href="#">NO FORMAL NAME</a>  |
| 2126                   | <a href="#">GRID FM</a>         |
| 2130                   | <a href="#">NO FORMAL NAME</a>  |
| 2150                   | <a href="#">ROGALAND GP</a>     |
| 2150                   | <a href="#">BALDER FM</a>       |
| 2209                   | <a href="#">SELE FM</a>         |
| 2217                   | <a href="#">HERMOD FM</a>       |
| 2291                   | <a href="#">SELE FM</a>         |
| 2313                   | <a href="#">HERMOD FM</a>       |
| 2320                   | <a href="#">SELE FM</a>         |
| 2365                   | <a href="#">LISTA FM</a>        |
| 2391                   | <a href="#">HEIMDAL FM</a>      |
| 2404                   | <a href="#">LISTA FM</a>        |
| 2452                   | <a href="#">VÅLE FM</a>         |
| 2535                   | <a href="#">SHETLAND GP</a>     |
| 2535                   | <a href="#">EKOFISK FM</a>      |
| 2538                   | <a href="#">JORSALFARE FM</a>   |
| 2805                   | <a href="#">KYRRE FM</a>        |
| 3569                   | <a href="#">TRYGGVASON FM</a>   |
| 3631                   | <a href="#">BLODØKS FM</a>      |
| 3655                   | <a href="#">SVARTE FM</a>       |
| 3870                   | <a href="#">CROMER KNOLL GP</a> |
| 3870                   | <a href="#">RØDBY FM</a>        |
| 3878                   | <a href="#">VIKING GP</a>       |
| 3878                   | <a href="#">DRAUPNE FM</a>      |
| 3924                   | <a href="#">HEATHER FM</a>      |
| 4735                   | <a href="#">DUNLIN GP</a>       |
| 4735                   | <a href="#">COOK FM</a>         |



|      |                              |
|------|------------------------------|
| 4801 | <a href="#">BURTON FM</a>    |
| 4884 | <a href="#">STATEJORD GP</a> |

**Composite logs**

| Document name       | Document format | Document size [MB] |
|---------------------|-----------------|--------------------|
| <a href="#">390</a> | pdf             | 0.64               |

**Geochemical information**

| Document name                                                                                                      | Document format | Document size [MB] |
|--------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|
| <a href="#">390 1 organic geochemical correlation of nine oils and ten source rocks from the northern sea area</a> | pdf             | 2.64               |
| <a href="#">390 2 Rock eval pyrolysis of samples from well 30 7 7</a>                                              | pdf             | 1.21               |
| <a href="#">390 3 source rock evaluation of well 30 7 7</a>                                                        | pdf             | 9.19               |
| <a href="#">390 4</a>                                                                                              | pdf             | 5.93               |

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

| Document name                                   | Document format | Document size [MB] |
|-------------------------------------------------|-----------------|--------------------|
| <a href="#">390 01 WDSS General Information</a> | pdf             | 0.12               |
| <a href="#">390 02 WDSS completion log</a>      | pdf             | 0.33               |

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

| Document name                                                           | Document format | Document size [MB] |
|-------------------------------------------------------------------------|-----------------|--------------------|
| <a href="#">390 1 Completion Report Drilling</a>                        | pdf             | 14.39              |
| <a href="#">390 2 Completion Report Geological &amp; Completion log</a> | pdf             | 4.35               |

**Drill stem tests (DST)**





| Test number | From depth MD [m] | To depth MD [m] | Choke size [mm] |
|-------------|-------------------|-----------------|-----------------|
| 1.0         | 4735              | 4762            | 6.4             |

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

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

## Logs

| Log type  | Log top depth [m] | Log bottom depth [m] |
|-----------|-------------------|----------------------|
| CST       | 4758              | 4766                 |
| DLL MSFL  | 4700              | 5042                 |
| FDC CNL   | 769               | 5047                 |
| HDT       | 2677              | 4803                 |
| ISF SONIC | 764               | 3686                 |
| ISF SONIC | 3874              | 5046                 |

## 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                  | 184.0            | 36                | 185.0          | 0.00                     | LOT                 |
| SURF.COND.  | 20                  | 764.0            | 26                | 781.0          | 1.14                     | LOT                 |
| INTERM.     | 13 3/8              | 2681.0           | 17 1/2            | 2701.0         | 1.85                     | LOT                 |
| INTERM.     | 9 5/8               | 3877.0           | 12 1/4            | 3888.0         | 2.17                     | LOT                 |
| LINER       | 7                   | 4500.0           | 8 3/8             | 4509.0         | 2.20                     | LOT                 |
| LINER       | 4 1/2               | 5127.0           | 6                 | 5127.0         | 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 |
|-----------------|--------------------------|------------------|---------------------|----------|------------------|
| 185             | 1.04                     |                  |                     | spud mud |                  |
| 781             | 1.04                     | 45.0             |                     | seawater |                  |
| 1822            | 1.09                     | 52.0             |                     | seawater |                  |
| 2503            | 1.14                     | 46.0             |                     | seawater |                  |
| 2681            | 1.16                     | 45.0             |                     | seawater |                  |
| 3071            | 1.70                     | 46.0             |                     | seawater |                  |
| 3414            | 1.73                     | 43.0             |                     | seawater |                  |
| 3888            | 1.80                     | 70.0             |                     | seawater |                  |
| 4440            | 2.04                     | 48.0             |                     | seawater |                  |
| 5060            | 2.09                     | 61.0             |                     | seawater |                  |