

**General information**

|                                    |                                |
|------------------------------------|--------------------------------|
| Wellbore name                      | 34/7-12                        |
| Type                               | EXPLORATION                    |
| Purpose                            | WILDCAT                        |
| Status                             | P&A                            |
| Factmaps in new window             | <a href="#">link to map</a>    |
| Main area                          | NORTH SEA                      |
| Field                              | <a href="#">TORDIS</a>         |
| Discovery                          | <a href="#">34/7-12 Tordis</a> |
| Well name                          | 34/7-12                        |
| Seismic location                   | SG 8431 ROW 155 COLUMN 534     |
| Production licence                 | <a href="#">089</a>            |
| Drilling operator                  | Saga Petroleum ASA             |
| Drill permit                       | 567-L                          |
| Drilling facility                  | <a href="#">TREASURE SAGA</a>  |
| Drilling days                      | 68                             |
| Entered date                       | 11.10.1987                     |
| Completed date                     | 17.12.1987                     |
| Release date                       | 17.12.1989                     |
| Publication date                   | 28.02.2008                     |
| Purpose - planned                  | WILDCAT                        |
| Reentry                            | NO                             |
| Content                            | OIL                            |
| Discovery wellbore                 | YES                            |
| 1st level with HC, age             | MIDDLE JURASSIC                |
| 1st level with HC, formation       | TARBERT FM                     |
| 2nd level with HC, age             | MIDDLE JURASSIC                |
| 2nd level with HC, formation       | NESS FM                        |
| Kelly bushing elevation [m]        | 26.0                           |
| Water depth [m]                    | 190.0                          |
| Total depth (MD) [m RKB]           | 2784.0                         |
| Final vertical depth (TVD) [m RKB] | 2780.0                         |
| Maximum inclination [°]            | 5.4                            |
| Bottom hole temperature [°C]       | 100                            |
| Oldest penetrated age              | LATE TRIASSIC                  |
| Oldest penetrated formation        | LUNDE FM                       |
| Geodetic datum                     | ED50                           |
| NS degrees                         | 61° 16' 17.86" N               |
| EW degrees                         | 2° 6' 47.26" E                 |



|                |            |
|----------------|------------|
| NS UTM [m]     | 6793527.52 |
| EW UTM [m]     | 452441.55  |
| UTM zone       | 31         |
| NPDID wellbore | 1187       |

## Wellbore history

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Well 34/7-12 is a replacement well for well 34/7-11, which was junked for technical reasons. It is located in the Tampen Spur area in the Northern North Sea. Its overall purpose was to assess the hydrocarbon potential in the "B"-structure in the southern part of the block. The primary objectives were to establish the thickness and reservoir quality of the prospective Brent the Brent Group in Group, and to determine the OWC. The secondary objectives were to assess the potential of the Dunlin Cook Formation reservoir, the Statfjord Formation and the upper part of the Triassic Lunde unit B/C reservoir section. TD was prognosed to 2900 m.

### Operations and results

Wildcat well 34/7-12 was spudded 20 m north of the 34/7-11 location. It was drilled with the semi-submersible installation Treasure Saga on 11 October 1987 and drilled to TD at 2784 m in the Late Triassic Lunde Formation. The well was drilled without significant technical problems. The well was drilled with spud mud down to 852 m and with KCl mud from 852 m to TD.

The Brent Group came in at 2169 m, and Statfjord Formation at 2606 m. Lunde Formation was encountered at 2763 m. Oil/water contact was defined in the Ness Formation at 2250 m.

The Brent Group, from 2169 to 2340.5 m (171.5 m thick) comprised the sandy Tarbert Formation, the interbedded shaly and sandy Ness Formation, the sandy Etive and Rannoch Formations and at the base the conglomeratic Broom Formation. The Dunlin Group was penetrated from 2340.5 to 2606 m (265.5 m thick), comprising the shaly Drake Formation at the top, the Cook Formation with interbedded sandstone and claystone, the Burton Formation with claystone and minor sandstone and the Amundsen and Calcareous Amundsen Formations having clay stones with minor limestone. The Statfjord Formation, 157 m thick from 2606 to 2763 m, was dominated by sandstones with minor to interbedded claystone. The Late Triassic upper Lunde Formation was encountered at 2763 m, and comprised clay stone interbedded with siltstone.

The Brent Group was hydrocarbon-bearing through the Tarbert Formation and into the Ness Formation with an OWC at 2250 m, confirmed by logs and FMT pressure gradients. Shows were seen down to 2268 m. In addition, shows were reported from a sidewall core cut at 1803 m in a Paleocene sand. Logs also indicated the presence of a two metre thick residual or hydrocarbon bearing zone from 1801 m to 1803 m. Shows were also reported in siltstones in the interval 2060 to 2142 m in the Late Cretaceous Kyrre Formation. No indications of hydrocarbons were reported below 2268 m.

A total of 10 cores were cut from 2169 to 2360.5 m in the Brent Group and 20 m into the Dunlin Group. A total of 180.8 m core was recovered (94.4 % of cored section). FMT segregated fluid samples were taken at 2171 m (oil and gas), 2171.5 m (oil and gas), 2189.5 m (two samples in different runs, both with oil and gas), 2249.5 m (gas and oil-cut mud), and at 2252.5 m (water). The samples from 2171 and 2189.5 m were analysed and found to be very similar with oil densities close to 0.845 g/cm<sup>3</sup>, gas gravities in the range 0.863 to 0.879, and CO<sub>2</sub> contents in the range 0.22 to 0.29 %.

The well was permanently abandoned on 17 December 1987 as an oil discovery.

**Testing**

Three drill stem tests were performed in well 34/7-12.

DST 1 tested the interval 2276.2 - 2282.2 m in the Rannoch Formation and produced up to 1297 Sm<sup>3</sup> water/day through a 12.7 mm choke. Up to 10% sand production was reported in the beginning of the main flow period. Maximum down-hole temperature recorded (at 2230.7 m) was 84.2 deg C.

DST 2 tested the interval 2229 - 2235 m in the Ness Formation. On a 12.7 mm choke this test produced 881 Sm<sup>3</sup> oil and 59383 Sm<sup>3</sup> gas /day. The corresponding GOR was 68 Sm<sup>3</sup>/Sm<sup>3</sup>, the oil density was 0.841 g/cm<sup>3</sup>, and the gas gravity was 0.722 (air = 1). Maximum down-hole temperature recorded (at 2202.6 m) was 83.4 deg C.

DST 3 tested the interval 2205.5 - 2209.5 m in the lower Tarbert Formation. On a 14.3 mm choke this test produced 1460 Sm<sup>3</sup> oil and 96450 Sm<sup>3</sup> gas /day. The corresponding GOR was 68 Sm<sup>3</sup>/Sm<sup>3</sup>, the oil density was 0.840 g/cm<sup>3</sup>, and the gas gravity was 0.695 (air = 1). Maximum down-hole temperature recorded (at 2161.3 m) was 82.1 deg C.

**Cuttings at the Norwegian Offshore Directorate**

| Cutting sample, top depth [m] | Cutting samples, bottom depth [m] |
|-------------------------------|-----------------------------------|
| 860.00                        | 2784.00                           |

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

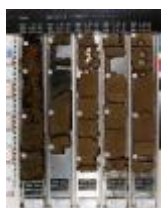
**Cores at the Norwegian Offshore Directorate**

| Core sample number | Core sample - top depth | Core sample - bottom depth | Core sample depth - uom |
|--------------------|-------------------------|----------------------------|-------------------------|
| 1                  | 2169.0                  | 2196.3                     | [m ]                    |
| 2                  | 2196.5                  | 2212.9                     | [m ]                    |
| 3                  | 2214.0                  | 2215.5                     | [m ]                    |
| 4                  | 2216.0                  | 2224.9                     | [m ]                    |
| 5                  | 2228.0                  | 2242.4                     | [m ]                    |
| 6                  | 2242.0                  | 2261.5                     | [m ]                    |
| 7                  | 2262.0                  | 2289.9                     | [m ]                    |
| 8                  | 2290.0                  | 2305.0                     | [m ]                    |
| 9                  | 2305.5                  | 2332.5                     | [m ]                    |
| 10                 | 2333.0                  | 2356.6                     | [m ]                    |

|                               |       |
|-------------------------------|-------|
| Total core sample length [m]  | 181.5 |
| Cores available for sampling? | YES   |



### Core photos



2169-2174m



2174-2179m



2179-2184m



2184-2189m



2189-2194m



2194-2198m



2196-2201m



2201-2206m



2206-2211m



2211-2212m



2214-2215m



2216-2221m



2221-2224m



2228-2233m



2233-2238m



2238-2242m



2242-2247m



2247-2252m



2252-2257m



2257-2261m



2262-2267m



2267-2272m



2272-2277m



2277-2282m



2282-2287m



2287-2289m



2290-2295m



2295-2300m



2300-2305m



2305-2310m



2310-2315m



2315-2320m



2320-2325m



2325-2330m



2330-2332m



2333-2338m



2338-2343m



2343-2348m



2348-2353m



2353-2356m

### Palynological slides at the Norwegian Offshore Directorate

| Sample depth | Depth unit | Sample type | Laboratory |
|--------------|------------|-------------|------------|
| 1010.0       | [m]        | DC          | PALEO      |
| 1021.0       | [m]        | DC          | PALEO      |
| 1025.0       | [m]        | DC          | PALEO      |
| 1040.0       | [m]        | DC          | PALEO      |
| 1050.0       | [m]        | DC          | PALEO      |
| 1070.0       | [m]        | DC          | PALEO      |
| 1080.0       | [m]        | DC          | PALEO      |
| 1099.5       | [m]        | DC          | PALEO      |
| 1100.0       | [m]        | DC          | PALEO      |
| 1110.0       | [m]        | DC          | PALEO      |
| 1130.0       | [m]        | DC          | PALEO      |
| 1140.0       | [m]        | DC          | PALEO      |
| 1150.0       | [m]        | DC          | PALEO      |
| 1160.0       | [m]        | DC          | PALEO      |
| 1170.0       | [m]        | DC          | PALEO      |
| 1190.0       | [m]        | DC          | PALEO      |
| 1200.0       | [m]        | DC          | PALEO      |
| 1220.0       | [m]        | DC          | PALEO      |
| 1228.0       | [m]        | DC          | PALEO      |
| 1230.0       | [m]        | DC          | PALEO      |
| 1250.0       | [m]        | DC          | PALEO      |
| 1270.0       | [m]        | DC          | PALEO      |



|            |     |       |
|------------|-----|-------|
| 1280.0 [m] | DC  | PALEO |
| 1300.0 [m] | DC  | PALEO |
| 1310.0 [m] | DC  | PALEO |
| 1330.0 [m] | DC  | PALEO |
| 1340.0 [m] | DC  | PALEO |
| 1360.0 [m] | DC  | PALEO |
| 1370.0 [m] | DC  | PALEO |
| 1390.0 [m] | DC  | PALEO |
| 1400.0 [m] | DC  | PALEO |
| 1420.0 [m] | DC  | PALEO |
| 1430.0 [m] | DC  | PALEO |
| 1450.0 [m] | DC  | PALEO |
| 1460.0 [m] | DC  | PALEO |
| 1480.0 [m] | DC  | PALEO |
| 1490.0 [m] | DC  | PALEO |
| 1510.0 [m] | DC  | PALEO |
| 1520.0 [m] | DC  | PALEO |
| 1540.0 [m] | DC  | PALEO |
| 1550.0 [m] | DC  | PALEO |
| 1570.0 [m] | DC  | PALEO |
| 1580.0 [m] | DC  | PALEO |
| 1600.0 [m] | DC  | PALEO |
| 1610.0 [m] | DC  | PALEO |
| 1630.0 [m] | DC  | PALEO |
| 1640.0 [m] | DC  | PALEO |
| 1660.0 [m] | DC  | PALEO |
| 1670.0 [m] | DC  | PALEO |
| 1690.0 [m] | DC  | PALEO |
| 1696.0 [m] | SWC | PALEO |
| 1700.0 [m] | DC  | PALEO |
| 1710.0 [m] | DC  | PALEO |
| 1730.0 [m] | DC  | PALEO |
| 1740.0 [m] | DC  | PALEO |
| 1760.0 [m] | DC  | PALEO |
| 1770.0 [m] | DC  | PALEO |
| 1790.0 [m] | DC  | PALEO |
| 1800.0 [m] | DC  | PALEO |
| 1815.0 [m] | DC  | PALEO |
| 1830.0 [m] | DC  | PALEO |
| 1845.0 [m] | DC  | PALEO |



|        |     |     |       |
|--------|-----|-----|-------|
| 1860.0 | [m] | DC  | PALEO |
| 1875.0 | [m] | DC  | PALEO |
| 1890.0 | [m] | DC  | PALEO |
| 1900.0 | [m] | SWC | PALEO |
| 1905.0 | [m] | DC  | PALEO |
| 1920.0 | [m] | DC  | PALEO |
| 1935.0 | [m] | DC  | PALEO |
| 1950.0 | [m] | DC  | PALEO |
| 1965.0 | [m] | DC  | PALEO |
| 1980.0 | [m] | DC  | PALEO |
| 1995.0 | [m] | DC  | PALEO |
| 2010.0 | [m] | DC  | PALEO |
| 2025.0 | [m] | DC  | PALEO |
| 2040.0 | [m] | DC  | PALEO |
| 2055.0 | [m] | DC  | PALEO |
| 2070.0 | [m] | DC  | PALEO |
| 2085.0 | [m] | DC  | PALEO |
| 2100.0 | [m] | DC  | PALEO |
| 2115.0 | [m] | DC  | PALEO |
| 2130.0 | [m] | DC  | PALEO |
| 2145.0 | [m] | DC  | PALEO |
| 2160.0 | [m] | DC  | PALEO |
| 2162.0 | [m] | DC  | PALEO |
| 2171.5 | [m] | DC  | PALEO |
| 2175.0 | [m] | DC  | PALEO |
| 2178.8 | [m] | DC  | PALEO |
| 2198.8 | [m] | DC  | PALEO |
| 2209.5 | [m] | DC  | PALEO |
| 2214.5 | [m] | DC  | PALEO |
| 2218.8 | [m] | DC  | PALEO |
| 2220.8 | [m] | DC  | PALEO |
| 2223.8 | [m] | DC  | PALEO |
| 2229.5 | [m] | DC  | PALEO |
| 2237.8 | [m] | DC  | PALEO |
| 2243.0 | [m] | DC  | PALEO |
| 2258.7 | [m] | DC  | PALEO |
| 2279.5 | [m] | DC  | PALEO |
| 2299.0 | [m] | DC  | PALEO |
| 2305.8 | [m] | DC  | PALEO |
| 2313.0 | [m] | DC  | PALEO |



|        |     |    |       |
|--------|-----|----|-------|
| 2319.5 | [m] | DC | PALEO |
| 2326.4 | [m] | DC | PALEO |
| 2341.0 | [m] | DC | PALEO |
| 2348.0 | [m] | DC | PALEO |
| 2350.9 | [m] | DC | PALEO |
| 2353.1 | [m] | DC | PALEO |
| 2355.8 | [m] | DC | PALEO |
| 2358.0 | [m] | DC | PALEO |
| 2364.0 | [m] | DC | PALEO |
| 2373.0 | [m] | DC | PALEO |
| 2391.0 | [m] | DC | PALEO |
| 2433.0 | [m] | DC | PALEO |
| 2451.0 | [m] | DC | PALEO |
| 2460.0 | [m] | DC | PALEO |
| 2490.0 | [m] | DC | PALEO |
| 2505.0 | [m] | DC | PALEO |
| 2520.0 | [m] | DC | PALEO |
| 2534.0 | [m] | DC | PALEO |
| 2553.0 | [m] | DC | PALEO |
| 2555.0 | [m] | DC | PALEO |
| 2563.0 | [m] | DC | PALEO |
| 2580.0 | [m] | DC | PALEO |
| 2622.0 | [m] | DC | PALEO |
| 2634.0 | [m] | DC | PALEO |
| 2640.0 | [m] | DC | PALEO |
| 2670.0 | [m] | DC | PALEO |
| 2682.0 | [m] | DC | PALEO |
| 2727.0 | [m] | DC | PALEO |
| 2742.0 | [m] | DC | PALEO |
| 2754.0 | [m] | DC | PALEO |
| 2768.0 | [m] | DC | PALEO |
| 2772.0 | [m] | DC | PALEO |
| 2784.0 | [m] | DC | PALEO |

**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       | DST2          | 2229.00          | 2235.00             |            | 03.12.1987 - 11:30 | YES               |
| DST       | DST3          | 2205.50          | 2209.50             |            | 10.12.1987 - 23:00 | YES               |

**Lithostratigraphy**

| Top depth [mMD RKB] | Lithostrat. unit                |
|---------------------|---------------------------------|
| 216                 | <a href="#">NORDLAND GP</a>     |
| 989                 | <a href="#">UTSIRA FM</a>       |
| 1021                | <a href="#">HORDALAND GP</a>    |
| 1151                | <a href="#">NO FORMAL NAME</a>  |
| 1308                | <a href="#">NO FORMAL NAME</a>  |
| 1365                | <a href="#">NO FORMAL NAME</a>  |
| 1428                | <a href="#">NO FORMAL NAME</a>  |
| 1644                | <a href="#">ROGALAND GP</a>     |
| 1644                | <a href="#">BALDER FM</a>       |
| 1692                | <a href="#">LISTA FM</a>        |
| 1834                | <a href="#">SHETLAND GP</a>     |
| 1834                | <a href="#">JORSALFARE FM</a>   |
| 1997                | <a href="#">KYRRE FM</a>        |
| 2154                | <a href="#">CROMER KNOLL GP</a> |
| 2154                | <a href="#">RØDBY FM</a>        |
| 2160                | <a href="#">MIME FM</a>         |
| 2161                | <a href="#">VIKING GP</a>       |
| 2161                | <a href="#">HEATHER FM</a>      |
| 2169                | <a href="#">BRENT GP</a>        |
| 2169                | <a href="#">TARBERT FM</a>      |
| 2213                | <a href="#">NESS FM</a>         |
| 2252                | <a href="#">ETIVE FM</a>        |
| 2269                | <a href="#">RANNOCH FM</a>      |
| 2334                | <a href="#">BROOM FM</a>        |
| 2341                | <a href="#">DUNLIN GP</a>       |
| 2341                | <a href="#">DRAKE FM</a>        |
| 2462                | <a href="#">COOK FM</a>         |
| 2518                | <a href="#">BURTON FM</a>       |
| 2547                | <a href="#">AMUNDSEN FM</a>     |



|      |                              |
|------|------------------------------|
| 2606 | <a href="#">STATFJORD GP</a> |
| 2763 | <a href="#">HEGRE GP</a>     |
| 2763 | <a href="#">LUNDE FM</a>     |

**Geochemical information**

| Document name          | Document format | Document size [MB] |
|------------------------|-----------------|--------------------|
| <a href="#">1187_1</a> | pdf             | 0.74               |
| <a href="#">1187_2</a> | pdf             | 2.43               |

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

| Document name                                    | Document format | Document size [MB] |
|--------------------------------------------------|-----------------|--------------------|
| <a href="#">1187_01_WDSS_General_Information</a> | pdf             | 0.43               |
| <a href="#">1187_02_WDSS_completion_log</a>      | pdf             | 0.26               |

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

| Document name                                     | Document format | Document size [MB] |
|---------------------------------------------------|-----------------|--------------------|
| <a href="#">1187_01_34_7_12_Completion_report</a> | pdf             | 8.97               |
| <a href="#">1187_02_34_7_12_Completion_log</a>    | pdf             | 1.67               |

**Drill stem tests (DST)**

| Test number | From depth MD [m] | To depth MD [m] | Choke size [mm] |
|-------------|-------------------|-----------------|-----------------|
| 1.0         | 2276              | 2282            | 12.7            |
| 2.0         | 2229              | 2235            | 12.7            |
| 3.0         | 2206              | 2210            | 14.3            |

| Test number | Final shut-in pressure [MPa] | Final flow pressure [MPa] | Bottom hole pressure [MPa] | Downhole temperature [°C] |
|-------------|------------------------------|---------------------------|----------------------------|---------------------------|
| 1.0         | 15.000                       |                           | 49.000                     | 84                        |
| 2.0         | 19.000                       |                           | 43.000                     | 83                        |
| 3.0         | 23.000                       |                           | 48.000                     | 82                        |





| Test number | Oil [Sm3/day] | Gas [Sm3/day] | Oil density [g/cm3] | Gas grav. rel.air | GOR [m3/m3] |
|-------------|---------------|---------------|---------------------|-------------------|-------------|
| 1.0         |               | 1685          |                     |                   |             |
| 2.0         | 881           | 59000         | 0.841               | 0.722             | 68          |
| 3.0         | 1460          | 96000         | 0.840               | 0.695             | 66          |

## Logs

| Log type         | Log top depth [m] | Log bottom depth [m] |
|------------------|-------------------|----------------------|
| ACBL             | 600               | 1852                 |
| CDL CNL GR       | 2100              | 2479                 |
| CDL GR           | 837               | 1836                 |
| CNL CDL GR       | 1852              | 2784                 |
| CNL CDL GR       | 2140              | 2784                 |
| COREGUN          | 858               | 1848                 |
| COREGUN          | 1875              | 2775                 |
| DIFL LS BHC GR   | 837               | 1852                 |
| DIFL LS BHC GR   | 1852              | 2784                 |
| DIPMETER         | 1850              | 2784                 |
| DLL MLL GR       | 2100              | 2476                 |
| DLL MLL GR       | 2125              | 2784                 |
| FMT              | 2171              | 2312                 |
| FMT              | 2210              | 2474                 |
| FMT              | 2210              | 2692                 |
| MWD - GR RES DIR | 327               | 2781                 |
| VELOCITY         | 1525              | 2784                 |

## 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                  | 327.0            | 36                | 379.0          | 0.00                     | LOT                 |
| SURF.COND.  | 20                  | 838.0            | 26                | 852.0          | 1.66                     | LOT                 |
| INTERM.     | 13 3/8              | 1851.0           | 17 1/2            | 1870.0         | 2.23                     | LOT                 |
| INTERM.     | 9 5/8               | 2366.0           | 12 1/4            | 2784.0         | 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 |
|-----------------|--------------------------|------------------|---------------------|-------------|------------------|
| 332             | 1.05                     |                  |                     | WATER BASED | 14.10.1987       |
| 378             | 1.13                     | 5.0              | 12.0                | WATER BASED | 28.10.1987       |
| 852             | 1.05                     | 20.0             | 10.1                | WATER BASED | 28.10.1987       |
| 852             | 1.05                     | 22.0             | 8.7                 | WATER BASED | 28.10.1987       |
| 852             | 1.17                     | 5.0              | 13.5                | WATER BASED | 21.10.1987       |
| 852             | 1.20                     | 6.0              | 12.5                | WATER BASED | 21.10.1987       |
| 852             | 1.15                     | 6.0              | 13.5                | WATER BASED | 28.10.1987       |
| 870             | 1.09                     | 18.0             | 8.7                 | WATER BASED | 28.10.1987       |
| 1335            | 1.17                     | 22.0             | 10.6                | WATER BASED | 28.10.1987       |
| 1544            | 1.25                     | 25.0             | 12.0                | WATER BASED | 26.10.1987       |
| 1865            | 1.58                     | 34.0             | 12.0                | WATER BASED | 26.10.1987       |
| 1865            | 1.58                     | 35.0             | 11.5                | WATER BASED | 28.10.1987       |
| 1865            | 1.58                     | 35.0             | 12.5                | WATER BASED | 28.10.1987       |
| 1870            | 1.58                     | 32.0             | 10.6                | WATER BASED | 28.10.1987       |
| 2106            | 1.72                     | 32.0             | 8.7                 | WATER BASED | 29.10.1987       |
| 2120            | 1.72                     | 24.0             | 6.8                 | WATER BASED | 14.12.1987       |
| 2155            | 1.72                     | 24.0             | 6.8                 | WATER BASED | 16.12.1987       |
| 2180            | 1.72                     | 27.0             | 6.3                 | WATER BASED | 30.10.1987       |
| 2214            | 1.72                     | 31.0             | 7.2                 | WATER BASED | 02.11.1987       |
| 2224            | 1.72                     | 24.0             | 6.8                 | WATER BASED | 08.12.1987       |
| 2234            | 1.72                     | 29.0             | 5.3                 | WATER BASED | 02.11.1987       |
| 2267            | 1.72                     | 25.0             | 6.8                 | WATER BASED | 08.12.1987       |
| 2267            | 1.72                     | 28.0             | 6.3                 | WATER BASED | 08.12.1987       |
| 2276            | 1.72                     | 30.0             | 4.8                 | WATER BASED | 03.11.1987       |
| 2313            | 1.72                     | 30.0             | 6.3                 | WATER BASED | 10.11.1987       |
| 2330            | 1.72                     | 30.0             | 7.2                 | WATER BASED | 25.11.1987       |
| 2330            | 1.72                     | 30.0             | 7.2                 | WATER BASED | 23.11.1987       |
| 2330            | 1.72                     | 30.0             | 7.2                 | WATER BASED | 23.11.1987       |
| 2357            | 1.72                     | 30.0             | 5.3                 | WATER BASED | 10.11.1987       |
| 2366            | 1.72                     | 28.0             | 5.3                 | WATER BASED | 10.11.1987       |
| 2381            | 1.72                     | 31.0             | 10.6                | WATER BASED | 20.11.1987       |
| 2480            | 1.70                     | 28.0             | 5.3                 | WATER BASED | 10.11.1987       |
| 2480            | 1.72                     | 28.0             | 4.8                 | WATER BASED | 10.11.1987       |
| 2480            | 1.72                     | 27.0             | 6.3                 | WATER BASED | 10.11.1987       |
| 2510            | 1.72                     | 25.0             | 5.8                 | WATER BASED | 10.11.1987       |
| 2595            | 1.72                     | 26.0             | 6.3                 | WATER BASED | 10.11.1987       |
| 2609            | 1.72                     | 22.0             | 5.3                 | WATER BASED | 11.11.1987       |



|      |      |      |     |             |            |
|------|------|------|-----|-------------|------------|
| 2622 | 1.72 | 23.0 | 5.3 | WATER BASED | 12.11.1987 |
| 2655 | 1.72 | 25.0 | 5.3 | WATER BASED | 13.11.1987 |
| 2705 | 1.72 | 25.0 | 6.3 | WATER BASED | 16.11.1987 |
| 2778 | 1.72 | 28.0 | 6.3 | WATER BASED | 16.11.1987 |
| 2784 | 1.72 | 28.0 | 6.8 | WATER BASED | 16.11.1987 |
| 2784 | 1.72 | 28.0 | 6.8 | WATER BASED | 17.11.1987 |
| 2784 | 1.72 | 26.0 | 6.3 | WATER BASED | 18.11.1987 |
| 2784 | 1.72 | 26.0 | 6.3 | WATER BASED | 19.11.1987 |

## 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.

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