

Date: 23/09/96

| Well no: | Operator: |
|----------|-----------|
| 25/11-15 | HYDRO |

Well

| | | | |
|-------------------|---|---------------|-----------------------------|
| Coordinates : | 59° 11' 03.50" N 02° 29' 03.82" E | UTM coord. : | 6560840.35 N 470534.45 E |
| License no : | 169 | Permit no : | 704 |
| Rig : | TRANSOCEAN 8 | Rig type : | SEMI-SUB. |
| Contractor : | TRANSOCEAN ASA | Elev. KB : | 24 M |
| Bottom hole temp: | 76.6 °C | Water depth : | 127 M |
| Spud. date : | 91.11.10 | Total depth : | 2035 M |
| Compl. date : | 91.12.24 | Form. at TD : | |
| Spud. class : | WILDCAT | Prod.form. : | |
| Compl. class : | P&A. OIL DISCOVERY | | |
| Seisloca : | EV90-161, SP. 142/EB88-115, SP. 2526 | | |

Licenseses

10.000000 ESSO EXPL. & PROD. NORWAY A/S
 30.000000 NORSK HYDRO PRODUKSJON AS
 50.000000 DEN NORSKE STATS OLJESELSKAP A.S
 10.000000 NORSKE CONOCO A/S

Casing and Leak-off Tests

| Type | Casing diam | Depth below KB | Hole diam. | Hole depth below KB | Lot mud eqv. g/cm ³ |
|-----------|-------------|----------------|------------|---------------------|--------------------------------|
| CONDUCTOR | 30 | 237.0 | 36 | 240.0 | |
| INTERM. | 9 5/8 | 1273.0 | 12 1/4 | 1275.0 | 1.71 |

Conventional Cores

| Core no. | Intervals cored meters | Recovery m | % |
|----------|------------------------|------------|-------|
| 1 | 1680.0 - 1696.0 | 16.0 | 100.0 |

| | |
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| | | | |
|---|------------------|------|-------|
| 2 | 1697.0 - 1705.8. | 8.8 | 100.0 |
| 3 | 1708.0 - 1728.0 | 20.0 | 100.0 |
| 4 | 1728.0 - 1740.0 | 12.0 | 100.0 |
| 5 | 1740.5 - 1762.6 | 22.1 | 100.0 |
| 6 | 1762.6 - 1781.1 | 18.5 | 100.0 |
| 7 | 1781.1 - 1796.6 | 15.5 | 100.0 |

Mud

| Depth | Mud weight | Visc. | Mud type |
|--------|------------|-------|-------------|
| 238.0 | 1.20 | 19.0 | WATER BASED |
| 450.0 | 1.20 | 18.0 | WATER BASED |
| 1312.0 | 1.20 | 18.0 | WATER BASED |
| 1530.0 | 1.13 | 20.0 | WATER BASED |
| 1697.0 | 1.15 | 17.0 | WATER BASED |
| 1726.0 | 1.16 | 16.0 | WATER BASED |
| 1768.0 | 1.19 | 15.0 | WATER BASED |
| 1769.0 | 1.20 | 14.0 | WATER BASED |
| 1776.0 | 1.26 | 14.0 | WATER BASED |
| 1781.0 | 1.15 | 16.0 | WATER BASED |
| 1906.0 | 1.18 | 18.0 | WATER BASED |
| 2035.0 | 1.18 | 17.0 | WATER BASED |

Drill Stem Test (intervals and pressures)

| Test no. | Test interval meter | Choke size | Pressure (psi) WHP | BTHP | FFP |
|----------|---------------------|------------|--------------------|------|-----|
| 1.0 | 1736.0 - 1774.0 | 25.4 | | | |

Drill Stem Test (recovery)

| Test no. | Oil Sm3/d | Gas Sm3/d | Oil grav. g/cm3 | Gas grav. rel. air | GOR m3/m3 |
|----------|-----------|-----------|-----------------|--------------------|-----------|
| 1.0 | 525 | 7500 | 0.940 | 0.640 | 14 |

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Drill Bit Cuttings and Wet Samples

| Sample type | Interval below KB | Number of samples |
|-------------|-------------------|-------------------|
| WET SAMPLES | 1320 - 2035 | 150 |
| CUTTINGS | 1305 - 2035 | 150 |

Shallow Gas

| Interval below KB | Remarks |
|-------------------|---------|
| | |

Available Logs

| Log type | Intervals logged | 1/200 | 1/500 | |
|-------------------|------------------|-------|-------|--|
| AMS | 238.0 - 1993.0 | | | |
| CBL VDL CCL GR | 1100.0 - 1733.0 | | | |
| CDM AP/SHDT MSD | 1276.0 - 2010.0 | | | |
| CST | 1290.0 - 2006.0 | | | |
| DIL LSS SP AMS GR | 238.0 - 1269.0 | | | |
| DIL LSS SP GR | 238.0 - 2012.0 | | | |
| DIL LSS SP GR | 1274.0 - 2012.0 | | | |
| DLL MSFL SP SGR | 1274.0 - 2016.0 | | | |
| LDL CNL SGR | 1274.0 - 2005.0 | | | |
| LDL CNL SGR | 1274.0 - 2005.0 | | | |
| MUD | 151.0 - 2035.0 | | | |
| MWD | 150.0 - 2035.0 | | | |
| NGS | 1274.0 - 1996.0 | | | |
| RFT HP | 1485.0 - 1997.0 | | | |

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|----------------------|-----------------|--|--|--|
| SHDT GR | 1274.0 - 2013.0 | | | |
| | | | | |
| SITE SURVEY | | | | |
| SYNTHETIC SEISMOGRAM | | | | |
| TWO-WAY TRAVEL TIME | 120.0 - 1960.0 | | | |
| WALKAWAY VSP | | | | |
| VSP | | | | |

Main operations for well: 25/11-15

Main operation: DRILLING

| Sub operation: | Minutes: | Hours: | % of total: |
|-----------------|--------------|--------------|---------------|
| BOP ACTIVITIES | 480 | 8,0 | 2,53 |
| BOP/WELLHEAD EQ | 1710 | 28,5 | 9,02 |
| CASING | 7350 | 122,5 | 38,77 |
| CIRC/COND | 240 | 4,0 | 1,27 |
| DRILL | 4200 | 70,0 | 22,15 |
| HOLE OPEN | 210 | 3,5 | 1,11 |
| PRESS DETECTION | 60 | 1,0 | 0,32 |
| REAM | 450 | 7,5 | 2,37 |
| TRIP | 4260 | 71,0 | 22,47 |
| Total | 18960 | 316,0 | 100,00 |

Main operation: FORMATION EVAL

| Sub operation: | Minutes: | Hours: | % of total: |
|----------------|--------------|--------------|---------------|
| CIRC SAMPLES | 60 | 1,0 | 0,22 |
| CIRC/COND | 690 | 11,5 | 2,51 |
| CORE | 1890 | 31,5 | 6,87 |
| DST | 17910 | 298,5 | 65,10 |
| LOG | 3870 | 64,5 | 14,07 |
| RFT/FIT | 720 | 12,0 | 2,62 |
| TRIP | 2370 | 39,5 | 8,62 |
| Total | 27510 | 458,5 | 100,00 |

Main operation: INTERRUPTION

| Sub operation: | Minutes: | Hours: | % of total: |
|----------------|--------------|--------------|---------------|
| FISH | 2820 | 47,0 | 15,77 |
| MAINTAIN/REP | 6540 | 109,0 | 36,58 |
| OTHER | 1830 | 30,5 | 10,23 |
| WAIT | 6690 | 111,5 | 37,42 |
| Total | 17880 | 298,0 | 100,00 |

Main operation: MOVING

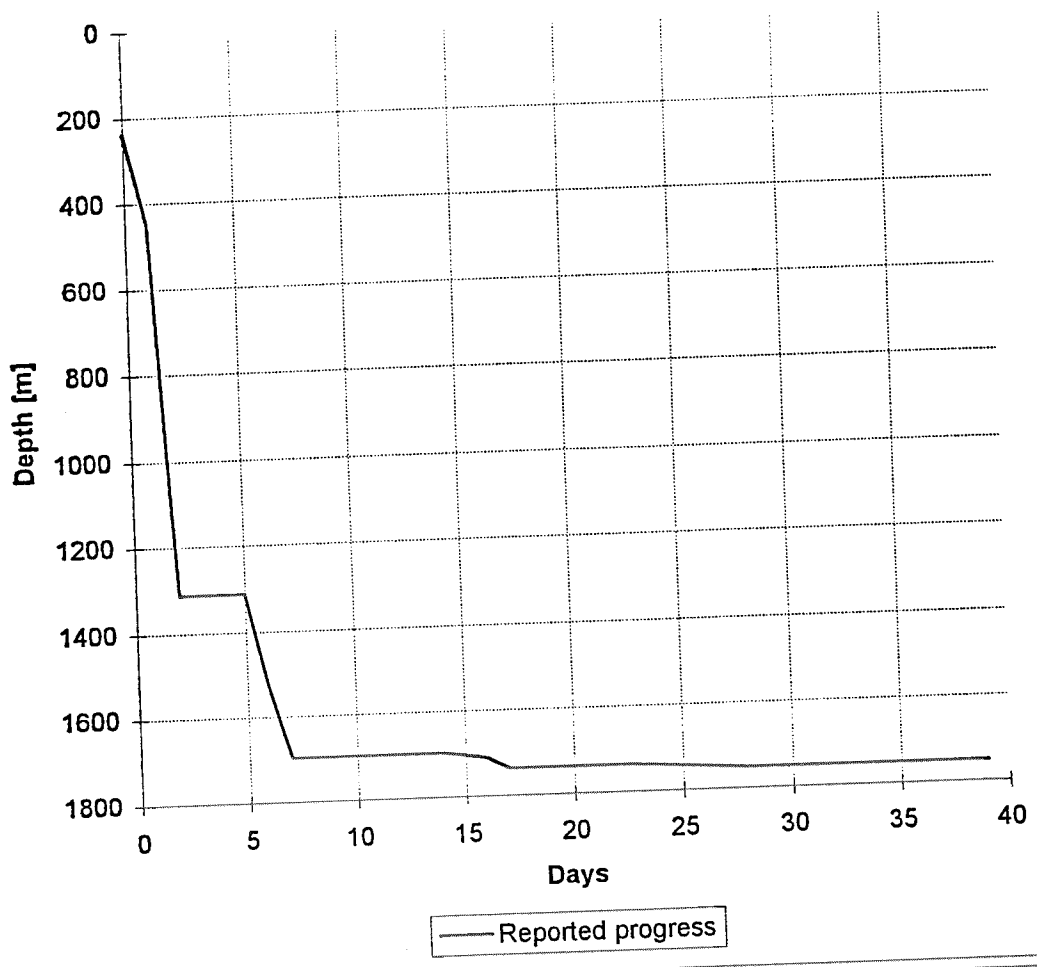
| Sub operation: | Minutes: | Hours: | % of total: |
|----------------|-------------|-------------|---------------|
| ANCHOR | 1380 | 23,0 | 26,14 |
| TRANSIT | 3900 | 65,0 | 73,86 |
| Total | 5280 | 88,0 | 100,00 |

Main operation: PLUG & ABANDON

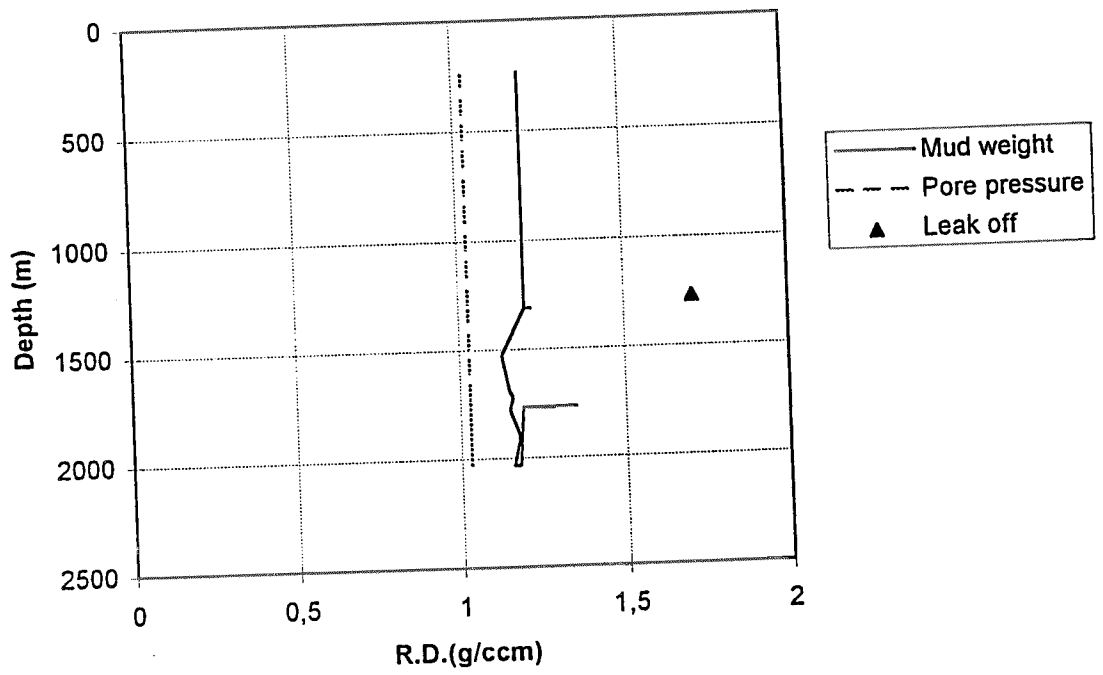
| Sub operation: | Minutes: | Hours: | % of total: |
|-----------------|-------------|-------------|---------------|
| CEMENT PLUG | 210 | 3,5 | 8,86 |
| CIRC/COND | 150 | 2,5 | 6,33 |
| CUT | 90 | 1,5 | 3,80 |
| MECHANICAL PLUG | 150 | 2,5 | 6,33 |
| SQUEEZE | 30 | 0,5 | 1,27 |
| TRIP | 1740 | 29,0 | 73,42 |
| Total | 2370 | 39,5 | 100,00 |

Total time used: Hours

Depth vs time for well: 25/11-15



Composite plot for well: 25/11-15



Well History 25/11-15

General:

Well 25/11-15 was designed to test the hydrocarbon potential of the Heimdal sand in the Hermod prospect. Block 25/11 is located at the Utsira High, a large basement high, flanked by the Viking Graben to the west and the Stord Basin to the east.

The objectives of the well 25/11-15 were:

- 1) to test the hydrocarbon potential of the Palaeocene Heimdal sand within the 120 ms isopach structural closure in a position of good seismic coverage.
 - 2) to obtain geological information to verify the geological and stratigraphical models.
 - 3) to verify the depth conversion for the base Cretaceous level.
 - 4) to test the direct hydrocarbon indicator seen in the seismic within the prospect at 1760 ms.
- Shallow gas was expected in sands at two levels. Prognosed TD was 2044 m RKB

Operations:

Wildcat well 25/11-15 was spudded 10 November 1991 by the semi-submersible rig Transocean 8 and completed 25 December 1991 at a total depth of 2035 m RKB in the Statfjord Formation. No significant problems occurred during the drilling operation. No shallow gas were encountered in this well. The Heimdal sand was encountered from 1734 m (11 m below predicted depth) to 1798 m RKB. Seven conventional cores were cut in the reservoir between 1680 m and 1799 m RKB, starting 7 m below the top Sele Formation and ending 1 m below the base of the Heimdal Formation. A total of 60 sidewall cores were attempted, and 35 were recovered. The well was permanently plugged and abandoned as an oil discovery.

Testing:

One DST tests were performed over the interval 1736- 1775 m RKB in the Heimdal sand, yielding a maximum flow rate of 525 Sm³/d oil and 7500 Sm³/d gas through a 25.4 mm choke.

Geological Tops.

Well: 25/11-15.

Depth m (RKB).

| | |
|-----------------|--------|
| Nordland Group | 150.0 |
| Utsira Fm | 798.0 |
| Skade Fm | 890.0 |
| | |
| Hordaland Group | 1018.0 |
| | |
| Rogaland Group | 1660.0 |
| Balder Fm | 1660.0 |
| Sele Fm | 1674.0 |
| Lista Fm | 1678.0 |
| Heimdal Fm | 1734.0 |
| Lista Fm | 1798.0 |
| Våle Fm | 1807.0 |
| | |
| Shetland Group | 1818.0 |
| Tor Fm | 1818.0 |
| Hod Fm | 1867.0 |
| Blodoks Fm | 1894.0 |
| Hidra Fm | 1903.0 |
| | |
| Viking Group | 1977.5 |
| Draupne Fm | 1977.5 |
| | |
| Statfjord Fm | 1983.0 |
| | |
| T.D. | 2035.0 |