

WDSS Report

Date: 17/09/96

PB/SKR

Page: 1 / 4

| Well no: | Operator: |
|------------|-----------|
| 15/12-07 S | STATOIL |

Well

| | | | |
|-------------------|----------------------|---------------|-------------|
| Coordinates : | 58° 00' 49.93" N | UTM coord. : | 6430858.6 N |
| | 01° 58' 35.54" E | | 439525.83 E |
| License no : | 116 | Permit no : | 655 |
| Rig : | DEEPSEA BERGEN | Rig type : | SEMI-SUB. |
| Contractor : | ODFJELL DRILLING A/S | | |
| Bottom hole temp: | 126 °C | Elev. KB : | 23 M |
| Spud. date : | 90.11.06 | Water depth : | 85 M |
| Compl. date : | 91.01.07 | Total depth : | 3529 M |
| Spud. class : | WILDCAT | Form. at TD : | TRIASSIC |
| Compl. class : | P&A. DRY HOLE | Prod.form. : | |
| Seisloca : | ST8802 - 775, SP 534 | | |

Licenseses

30.000000 NORSKE CONOCO A/S
10.000000 NORSK HYDRO PRODUKSJON AS
50.000000 DEN NORSKE STATS OLJESELSKAP A.S
10.000000 AMERADA HESS NORGE AS

Casing and Leak-off Tests

| Type | Casing diam | Depth below KB | Hole diam. | Hole depth below KB | Lot mud eqv. g/cm3 |
|-----------|-------------|----------------|------------|---------------------|--------------------|
| CONDUCTOR | 30 | 168.0 | 36 | 170.0 | |
| INTERM. | 20 | 604.0 | 26 | 606.0 | 2.08 |
| INTERM. | 13 3/8 | 1797.0 | 17 1/2 | 1800.0 | 1.85 |
| INTERM. | 9 5/8 | 3014.0 | 12 1/4 | 3016.0 | 1.65 |

| | |
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Conventional Cores

| Core no. | Intervals cored meters | Recovery m | % |
|----------|------------------------|------------|-------|
| 1 | 3028.0 - 3054.0 | 25.5 | 100.0 |

Mud

| Depth | Mud weight | Visc. | Mud type |
|--------|------------|-------|-------------|
| 1099.0 | 1.20 | 15.0 | WATER BASED |
| 1815.0 | 1.30 | 20.0 | WATER BASED |
| 1820.0 | 1.35 | 17.0 | WATER BASED |
| 1959.0 | 1.45 | 18.0 | WATER BASED |
| 2142.0 | 1.55 | 19.0 | WATER BASED |
| 2980.0 | 1.60 | 29.0 | WATER BASED |
| 3020.0 | 1.54 | 14.0 | WATER BASED |
| 3020.0 | 1.30 | 25.0 | WATER BASED |
| 3020.0 | 1.54 | 14.0 | WATER BASED |
| 3020.0 | 1.31 | 44.0 | WATER BASED |
| 3020.0 | 1.30 | 35.0 | WATER BASED |
| 3026.0 | 1.54 | 20.0 | WATER BASED |
| 3570.0 | 1.30 | 24.0 | WATER BASED |
| 3570.0 | 1.31 | 44.0 | WATER BASED |
| 3570.0 | 1.30 | 18.0 | WATER BASED |

Drill Stem Test (intervals and pressures)

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

Drill Stem Test (recovery)

| Test no. | Oil Sm3/d | Gas Sm3/d | Oil grav. g/cm3 | Gas grav. rel. air | GOR m3/m3 |
|----------|-----------|-----------|-----------------|--------------------|-----------|
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PB/SKR

Page: 3 / 4

| | |
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Drill Bit Cuttings and Wet Samples

| Sample type | Interval below KB | Number of samples |
|-------------|-------------------|-------------------|
| WET SAMPLES | 630 - 3570 | 300 |
| | | |

Shallow Gas

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

Available Logs

| Log type | Intervals logged | 1/200 | 1/500 | |
|---------------------|------------------|-------|-------|--|
| ACBL TOC | 106.0 - 3010.0 | | | |
| | | | | |
| CDL CNL GR | 1795.0 - 3026.0 | | | |
| CDL GR | 100.0 - 1786.0 | | | |
| | | | | |
| CDM AP | 2350.0 - 3025.0 | | | |
| CDM AP/COMPUTED DIP | 3010.0 - 3571.0 | | | |
| CDM AP/DIPLOG | 3010.0 - 3571.0 | | | |
| | | | | |
| DIFL BHC AC GR | 100.0 - 619.0 | | | |
| DIFL BHC AC GR | 604.0 - 1786.0 | | | |
| DIFL BHC AC GR | 1795.0 - 3026.0 | | | |
| DIFL BHC AC GR | 3010.0 - 3570.0 | | | |
| DIFL BHC AC GR | 3016.0 - 3181.0 | | | |
| | | | | |
| FMT | 3027.0 - 3425.0 | | | |
| | | | | |
| MUD | 108.0 - 3570.0 | | | |
| | | | | |
| MWD MD+TVD | 179.0 - 3570.0 | | | |
| | | | | |
| PRESSURE EVALUATION | 108.0 - 3570.0 | | | |

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PB/SKR

Page: 4 / 4

| | |
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| | | | | |
|----------------------|-----------------|--|--|--|
| SYNTHETIC SEISMOGRAM | | | | |
| VELOCITY | 170.0 - 3527.0 | | | |
| VSP | | | | |
| ZDL CN CAL GR | 3010.0 - 3569.0 | | | |
| ZDL CN GR | 3010.0 - 3569.0 | | | |

Main operations for well: 15/12-7 S

Main operation: DRILLING

| Sub operation: | Minutes: | Hours: | % of total: |
|-----------------|--------------|---------------|---------------|
| BOP ACTIVITIES | 1680 | 28,0 | 2,76 |
| BOP/WELLHEAD EQ | 3420 | 57,0 | 5,62 |
| CASING | 8580 | 143,0 | 14,10 |
| CIRC/COND | 1140 | 19,0 | 1,87 |
| DRILL | 24360 | 406,0 | 40,04 |
| HOLE OPEN | 1170 | 19,5 | 1,92 |
| OTHER | 4380 | 73,0 | 7,20 |
| REAM | 2070 | 34,5 | 3,40 |
| TRIP | 11040 | 184,0 | 18,15 |
| WAIT | 3000 | 50,0 | 4,93 |
| Total | 60840 | 1014,0 | 100,00 |

Main operation: FORMATION EVAL

| Sub operation: | Minutes: | Hours: | % of total: |
|----------------|--------------|--------------|---------------|
| CIRC/COND | 360 | 6,0 | 2,81 |
| CORE | 300 | 5,0 | 2,34 |
| LOG | 6480 | 108,0 | 50,59 |
| OTHER | 180 | 3,0 | 1,41 |
| RFT/FIT | 720 | 12,0 | 5,62 |
| TRIP | 3990 | 66,5 | 31,15 |
| WAIT | 780 | 13,0 | 6,09 |
| Total | 12810 | 213,5 | 100,00 |

Main operation: INTERRUPTION

| Sub operation: | Minutes: | Hours: | % of total: |
|----------------|-------------|-------------|---------------|
| FISH | 1830 | 30,5 | 100,00 |
| Total | 1830 | 30,5 | 100,00 |

Main operation: MOVING

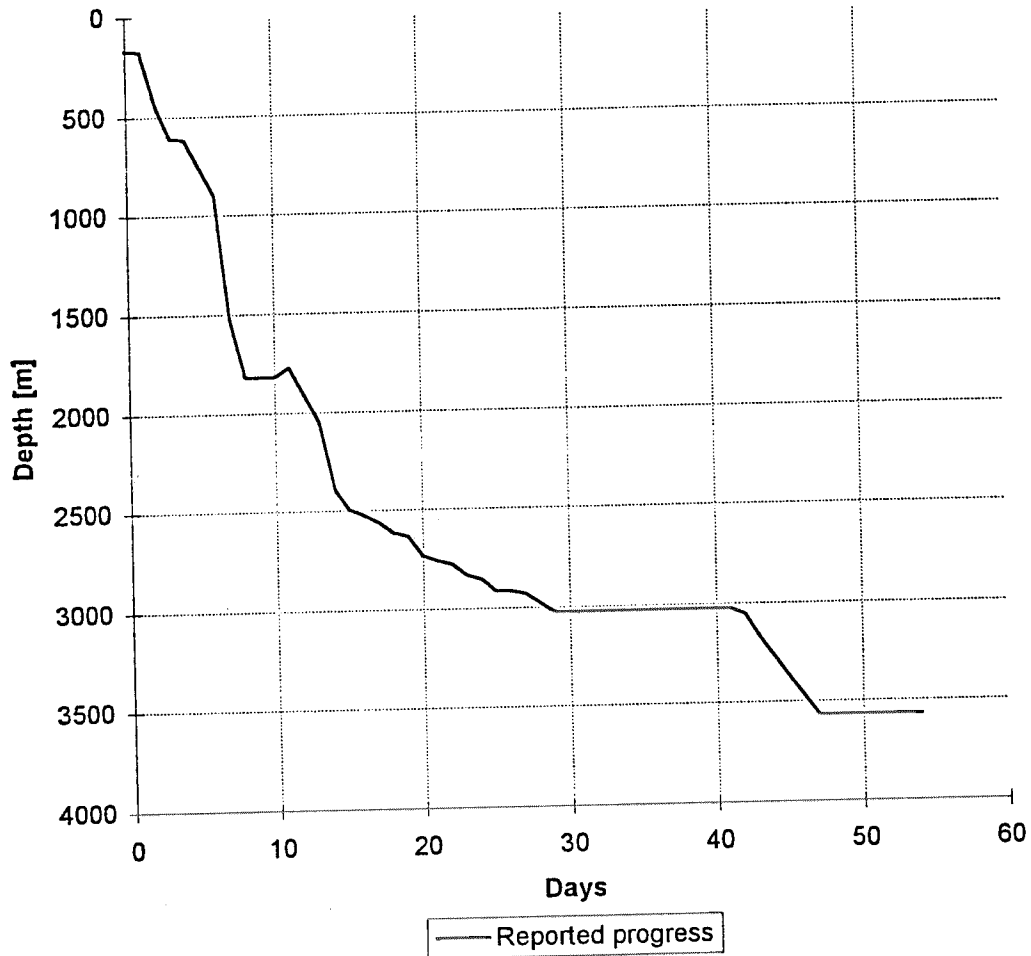
| Sub operation: | Minutes: | Hours: | % of total: |
|----------------|-------------|-------------|---------------|
| ANCHOR | 1230 | 20,5 | 43,16 |
| TRANSIT | 1620 | 27,0 | 56,84 |
| Total | 2850 | 47,5 | 100,00 |

Main operation: PLUG & ABANDON

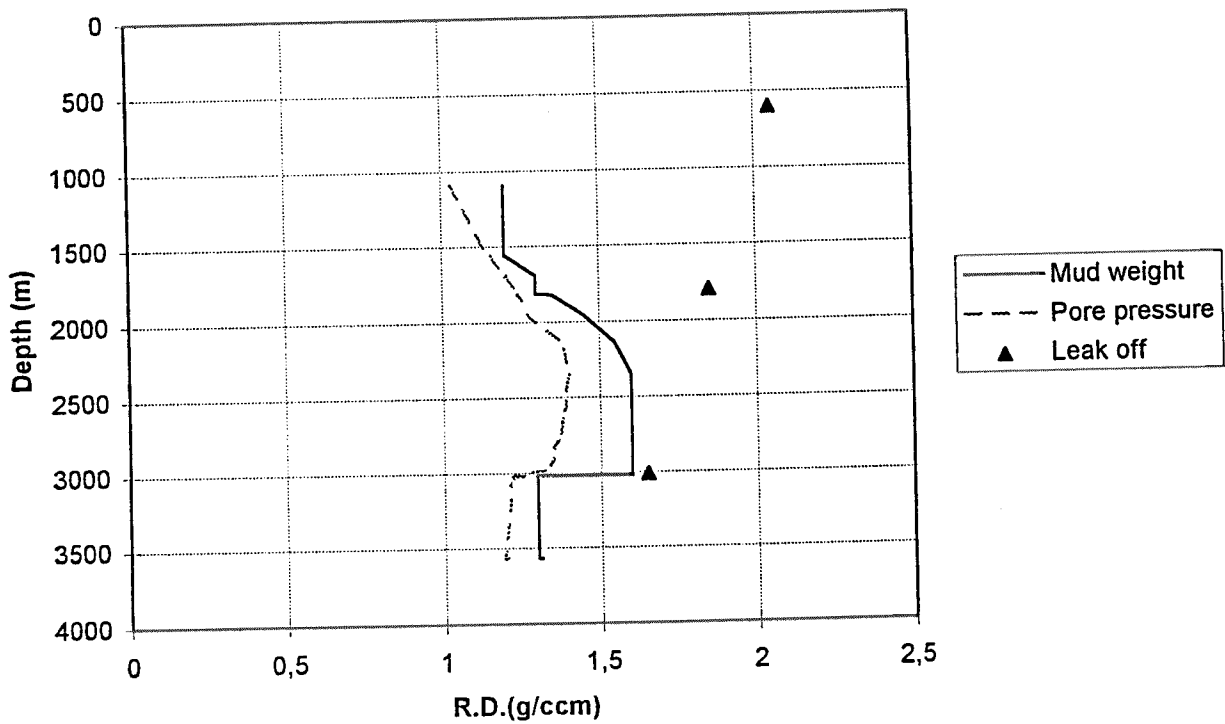
| Sub operation: | Minutes: | Hours: | % of total: |
|-----------------|-------------|--------------|---------------|
| CEMENT PLUG | 420 | 7,0 | 4,88 |
| CIRC/COND | 780 | 13,0 | 9,06 |
| EQUIP RECOVERY | 1920 | 32,0 | 22,30 |
| MECHANICAL PLUG | 240 | 4,0 | 2,79 |
| OTHER | 2190 | 36,5 | 25,44 |
| TRIP | 3000 | 50,0 | 34,84 |
| WAIT | 60 | 1,0 | 0,70 |
| Total | 8610 | 143,5 | 100,00 |

Total time used: Hours

Depth vs time for well: 15/12-7 S



Composite plot for well: 15/12-7 S



Well History 15/12-7 S

General:

Well 15/12-7 S was designed to drill in Late Jurassic Oxfordian sandstones on the Theta North prospect which is situated in the southeastern part of the PL 116 licence area. The structure is a rotated fault block dipping to the southeast and bound to the west and north by faults. Due to the complexity of the nearby graben areas surrounding the Theta North structure it was impossible to tie the reservoir seismically with any nearby wells. A number of wells have been drilled in the area, and several discoveries have been made in the vicinity of the well. Shallow gas was expected at 441 and 792 m RKB due to seismic anomalies. Due to the anomalies observed at 441 m RKB on the originally planned location, the well was spudded outside the area where anomalies were observed.

Based on mapping and inversion studies of the 15/12-5 well and the Beta-east structure, it was likely that an Oxfordian sequence was present at the Theta structure. However, it could not be excluded that the Oxfordian reservoir had been eroded from top of the structure. The main objective of well 15/12-7 S was to test the potential for hydrocarbons in the Oxfordian sandstones. A secondary objective was to test possible Triassic sandstones. The well should penetrate Quaternary to Triassic sediments with a TD at 3429 m TVD RKB and test a double seismic reflector believed to represent possible Callovian or Triassic sandstones. This reflector is mappable over a greater area.

Operations:

Wildcat well 15/12-7 S was spudded by the semi-submersible rig Deepsea Bergen 6 November 1990, and was completed 7 January 1991 at a depth of 3529 m MD RKB in rocks of Triassic age. The Oxfordian reservoir sandstone came in 25.5 m shallower than prognosed. No hydrocarbons were encountered in the Jurassic sands. One 27 m conventional core was cut in the reservoir unit with 94.4 % recovery. A total of 100 sidewall cores were attempted of which 93 were recovered. No sidewall cores were attempted in the 17 1/2" section due to hole problems. Stuck pipe was experienced at 2703 - 2720 m RKB, and also at 3425 m RKB with the FMT-tool which was left in the hole. No shallow gas was encountered at 441 m RKB, but from MWD gas was encountered at 775 m RKB. Several misruns while logging were experienced. The well was permanently plugged and abandoned as a dry well.

Testing:

No DST tests were performed in this well.

Geological Tops.

Well:.15/12-7S

Depth m (RKB) TVD.

| | |
|--------------------|--------|
| Nordland Group | 108.0 |
| Utsira Fm | 1129.0 |
| Hordaland Group | 1248.0 |
| Rogaland Group | 2341.0 |
| Balder Fm | 2341.0 |
| Sele Fm | 2360.0 |
| Lista Fm | 2436.5 |
| Våle Fm | 2421.5 |
| Shetland Group | 2541.0 |
| Ekofisk Fm | 2541.0 |
| Tor Fm | 2553.5 |
| Hod Fm | 2753.0 |
| Cromer Knoll Group | 2904.0 |
| Åsgard Fm | 2904.0 |
| Viking Group | 2969.0 |
| Draupne Fm | 2969.0 |
| Vestland Group | 2987.5 |
| Oxfordian Sst | 2987.5 |
| Triassic Group | 2998.0 |
| Skagerak Fm | 2998.0 |
| Smith Bank | 3437.0 |
| Intra Trias. | 3452.0 |
| T.D. | 3529.0 |