

# WDSS Report

Date: 21/10/96

PB/SKR

Page: 1 / 3

|                   |                  |
|-------------------|------------------|
| <b>Well no:</b>   | <b>Operator:</b> |
| <b>6507/08-05</b> | <b>STATOIL</b>   |

## Well

|  |   |
|--|---|
| <p><b>Coordinates :</b> 65° 20' 36.75" N<br/>07° 38' 04.70" E</p> <p><b>License no :</b> 124</p> <p><b>Rig :</b> ROSS RIG</p> <p><b>Contractor :</b> TRANSNOR RIG AS</p> <p><b>Bottom hole temp:</b> 70 °C</p> <p><b>Spud. date :</b> 91.03.02</p> <p><b>Compl. date :</b> 91.03.16</p> <p><b>Spud. class :</b> WILDCAT</p> <p><b>Compl. class :</b> P&amp;A. SHOWS</p> <p><b>Seisloca :</b> ST 8904-401 SP 350/ST 8002-494 SP 156</p> | <p><b>UTM coord. :</b> 7247612.81 N<br/>436442.87 E</p> <p><b>Permit no :</b> 670</p> <p><b>Rig type :</b> SEMI-SUB.</p> <p><b>Elev. KB :</b> 23 M</p> <p><b>Water depth :</b> 332 M</p> <p><b>Total depth :</b> 2000 M</p> <p><b>Form. at TD :</b> JURASSIC</p> <p><b>Prod.form. :</b></p> |
|--|---|

## Licensees

10.000000 CONOCO PETROLEUM NORGE AS  
 5.000000 DNO OLJE A/S  
 10.000000 NORSK HYDRO PRODUKSJON AS  
 10.000000 NESTE PETROLEUM AS  
 50.000000 DEN NORSKE STATS OLJESELSKAP A.S  
 15.000000 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/cm3 |
|-----------|-------------|----------------|------------|---------------------|--------------------|
| CONDUCTOR | 30          | 417.0          | 36         | 418.0               |                    |
| INTERM.   | 13 3/8      | 808.0          | 17 1/2     | 810.0               | 1.50               |
| OPEN HOLE |             | 2000.0         | 12 1/4     | 2000.0              |                    |

## WDSS Report

Date: 21/10/96

PB/SKR

Page: 2 / 3

|                   |                  |
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### Conventional Cores

| Core no. | Intervals cored meters | Recovery m | %     |
|----------|------------------------|------------|-------|
| 1        | 1857.7 - 1879.3        | 21.6       | 100.0 |

### Mud

| Depth  | Mud weight | Visc. | Mud type    |
|--------|------------|-------|-------------|
| 402.0  | 1.03       |       | WATER BASED |
| 422.0  | 1.03       | 9.0   | WATER BASED |
| 562.0  | 1.20       | 7.0   | WATER BASED |
| 823.0  | 1.10       | 11.0  | WATER BASED |
| 849.0  | 1.03       | 16.0  | WATER BASED |
| 854.0  | 1.10       | 11.0  | WATER BASED |
| 1438.0 | 1.20       | 24.0  | WATER BASED |
| 1620.0 | 1.26       | 17.0  | WATER BASED |
| 1824.0 | 1.27       | 17.0  | WATER BASED |
| 1885.0 | 1.27       | 18.0  | WATER BASED |
| 2000.0 | 1.27       | 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 |
|----------|-----------|-----------|-----------------|--------------------|-----------|
|----------|-----------|-----------|-----------------|--------------------|-----------|

### Drill Bit Cuttings and Wet Samples

| Sample type | Interval below KB | Number of samples |
|-------------|-------------------|-------------------|
| WET SAMPLES | 860 - 2000        | 120               |

**WDSS Report**

Date: 21/10/96

PB/SKR

Page: 3 / 3

|                   |                  |
|-------------------|------------------|
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**Shallow Gas**

| Interval<br>below KB | Remarks |
|----------------------|---------|
|                      |         |

**Available Logs**

| Log type             | Intervals logged | 1/200 | 1/500 |  |
|----------------------|------------------|-------|-------|--|
| AMS                  | 810.0 - 1959.0   |       |       |  |
| CNL LDL GR           | 810.0 - 1970.0   |       |       |  |
| CST GR               | 850.0 - 1985.0   |       |       |  |
| MUD                  | 356.0 - 2000.0   |       |       |  |
| PI LSS GR            | 810.0 - 1991.0   |       |       |  |
| PRESSURE EVALUATION  | 356.0 - 2000.0   |       |       |  |
| RWD                  | 425.0 - 2000.0   |       |       |  |
| SYNTHETIC SEISMOGRAM |                  |       |       |  |
| TWO WAY TRAVEL TIME  |                  |       |       |  |
| VELOCITY LOG         | 800.0 - 1980.0   |       |       |  |
| VSP                  |                  |       |       |  |

## Main operations for well: 6507/8-5

### Main operation: DRILLING

| Sub operation:  | Minutes:     | Hours:       | % of total:   |
|-----------------|--------------|--------------|---------------|
| BOP ACTIVITIES  | 420          | 7,0          | 3,30          |
| BOP/WELLHEAD EQ | 1590         | 26,5         | 12,50         |
| CASING          | 1440         | 24,0         | 11,32         |
| CIRC/COND       | 120          | 2,0          | 0,94          |
| DRILL           | 6090         | 101,5        | 47,88         |
| HOLE OPEN       | 660          | 11,0         | 5,19          |
| OTHER           | 1170         | 19,5         | 9,20          |
| PRESS DETECTION | 30           | 0,5          | 0,24          |
| REAM            | 60           | 1,0          | 0,47          |
| TRIP            | 750          | 12,5         | 5,90          |
| WAIT            | 390          | 6,5          | 3,07          |
| <b>Total</b>    | <b>12720</b> | <b>212,0</b> | <b>100,00</b> |

### Main operation: FORMATION EVAL

| Sub operation: | Minutes:    | Hours:      | % of total:   |
|----------------|-------------|-------------|---------------|
| CIRC/COND      | 390         | 6,5         | 22,03         |
| CORE           | 660         | 11,0        | 37,29         |
| OTHER          | 90          | 1,5         | 5,08          |
| TRIP           | 630         | 10,5        | 35,59         |
| <b>Total</b>   | <b>1770</b> | <b>29,5</b> | <b>100,00</b> |

### Main operation: MOVING

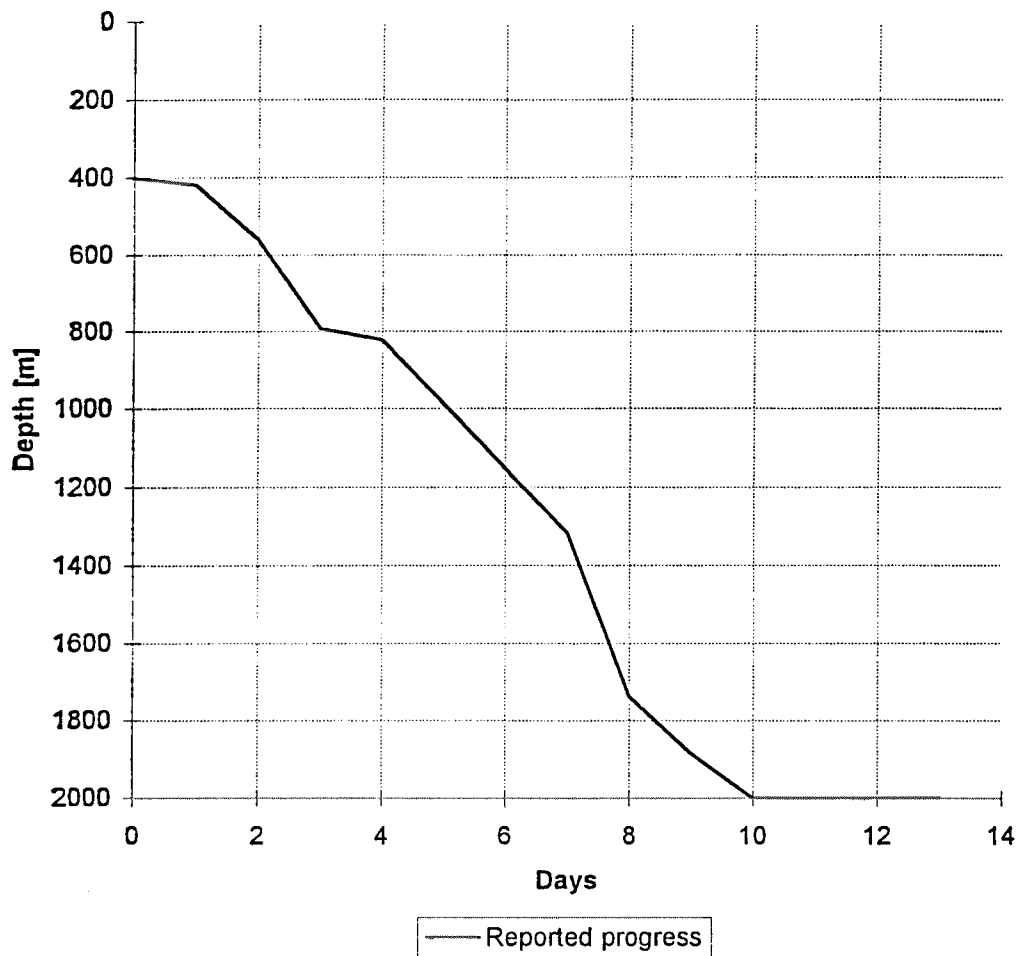
| Sub operation: | Minutes:    | Hours:      | % of total:   |
|----------------|-------------|-------------|---------------|
| ANCHOR         | 1500        | 25,0        | 56,82         |
| TRANSIT        | 1140        | 19,0        | 43,18         |
| <b>Total</b>   | <b>2640</b> | <b>44,0</b> | <b>100,00</b> |

### Main operation: PLUG & ABANDON

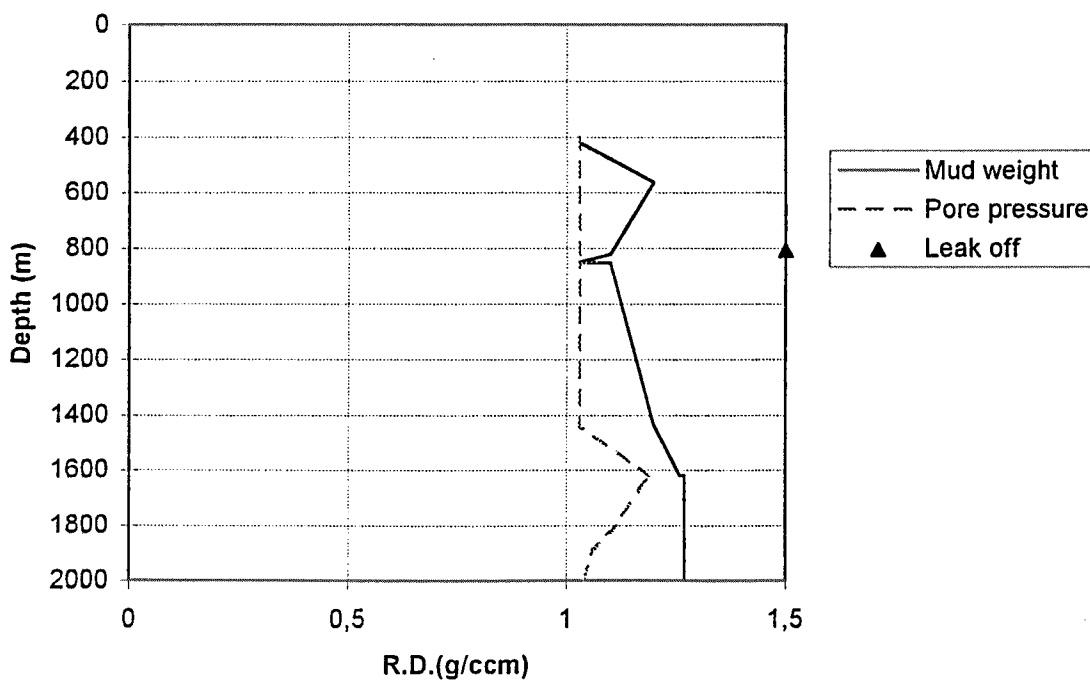
| Sub operation:  | Minutes:    | Hours:      | % of total:   |
|-----------------|-------------|-------------|---------------|
| CEMENT PLUG     | 150         | 2,5         | 13,51         |
| CIRC/COND       | 90          | 1,5         | 8,11          |
| EQUIP RECOVERY  | 480         | 8,0         | 43,24         |
| MECHANICAL PLUG | 120         | 2,0         | 10,81         |
| TRIP            | 270         | 4,5         | 24,32         |
| <b>Total</b>    | <b>1110</b> | <b>18,5</b> | <b>100,00</b> |

Total time used:  Hours

Depth vs time for well: 6507/8-5



Composite plot for well: 6507/8-5



# Well History 6507/8-5

## General:

Well 6507/8-5 was designed to drill the Omega prospect, a horst, located in the south-eastern part of block 6507/5. Structurally the licence area is situated in the transition zone between the Nordland Ridge to the north and the Halten Terrace to the south-west. The Omega horst had only a minor structural closure of 10-20 m, but assuming sealing capacity of a fault A, a stratigraphic closure would exist both updip and further downdip of the structural closure. Fault A has a maximum throw of 140 m on top Ror Formation level. The main objective of the well was to test the hydrocarbon- and reservoir potential of sandstones of the Middle/Lower Jurassic Fangst Group supposed to be present on the downthrown eastern side of the fault. None of the nearby correlation wells penetrated highly overpressured formations. Shallow gas warnings were given for three levels in the interval 518 to 960 m RKB.

## Operations:

Wildcat well 6507/8-5 was spudded 3 March 1991 by the semi-submersible rig Ross Rig and completed 16 March 1991 at a total depth of 2000 m RKB MD within the Lower Jurassic Tilje Formation. The well was drilled without any major problems. However, shallow gas was present, and the well was plugged back and a 13 3/8" casing were set above the gas. One conventional core was cut in the interval 1856.7-1884.5 m RKB MD. A total of 60 sidewall cores were attempted, and 60 were recovered. The potential reservoir sands of the Fangst and Båt Groups were penetrated, but proved not to be hydrocarbon bearing. The well was permanently plugged and abandoned as a dry well.

## Testing:

No DST tests were performed

# Geological Tops.

## Well: 6507/8-5

|                 | Depth m (RKB). |
|-----------------|----------------|
| Nordland Group  | 355.5          |
| Naust Fm        | 355.5          |
| Kai Fm          | 1348.0         |
| <br>            |                |
| Hordaland Group | 1578.0         |
| Brygge Fm       | 1578.0         |
| <br>            |                |
| Rogaland Group  | 1712.0         |
| Tare Fm         | 1712.0         |
| Tang Fm         | 1750.0         |
| <br>            |                |
| Shetland Group  | 1781.0         |
| <br>            |                |
| Viking Group    | 1786.5         |
| Spekk Fm        | 1786.5         |
| Melke Fm        | 1790.0         |
| <br>            |                |
| Fangst Group    | 1827.0         |
| Garn Fm         | 1827.0         |
| Not Fm          | 1854.0         |
| Ile Fm          | 1864.0         |
| <br>            |                |
| Båt Group       | 1900.0         |
| Ror Fm          | 1900.0         |
| Tilje Fm        | 1943.0         |
| <br>            |                |
| T.D.            | 2000.0         |