

General information

| | |
|------------------------------------|---------------------------------------------|
| Wellbore name | 6507/6-3 |
| Type | EXPLORATION |
| Purpose | WILDCAT |
| Status | P&A |
| Press release | link |
| Factmaps in new window | link |
| Main area | NORWEGIAN SEA |
| Well name | 6507/6-3 |
| Seismic location | 3D survey ST05M10-inline 2917 & x-line 3517 |
| Drilled in production licence | 212 C |
| Drilling operator | StatoilHydro ASA |
| Drill permit | 1197-L |
| Drilling facility | TRANSOCEAN WINNER |
| Drilling days | 25 |
| Entered date | 31.10.2008 |
| Completed date | 24.11.2008 |
| Release date | 24.11.2010 |
| Publication date | 24.11.2010 |
| Purpose - planned | WILDCAT |
| Reentry | NO |
| Content | DRY |
| Discovery wellbore | NO |
| Kelly bushing elevation [m] | 26.0 |
| Water depth [m] | 400.0 |
| Total depth (MD) [m RKB] | 1850.0 |
| Final vertical depth (TVD) [m RKB] | 1850.0 |
| Maximum inclination [°] | 1.6 |
| Bottom hole temperature [°C] | 59 |
| Oldest penetrated age | EARLY JURASSIC |
| Oldest penetrated formation | ÅRE FM |
| Geodetic datum | ED50 |
| NS degrees | 65° 38' 58.4" N |
| EW degrees | 7° 55' 37.6" E |
| NS UTM [m] | 7281454.08 |
| EW UTM [m] | 450637.36 |
| UTM zone | 32 |
| NPDID wellbore | 5922 |

Wellbore history

General

The 6507/6-3 Steinkobbe well is located on the east flank of the Nordland Ridge in the Norwegian Sea. The structure is a large rotated fault block and comprise of rock of Quaternary, Cretaceous and Jurassic age. The primary objective of the well was to prove commercial hydrocarbons in the Fangst and Båt Groups in the Steinkobbe prospect. A secondary objective was to test the presence and type of hydrocarbons in the Grytfoten lead in the Paleocene Tang-/Tare Formations.

Operations and results

Well 6507/6-3 was spudded with the semi-submersible installation Transocean Winner on 31 October 2008 and drilled to TD at 1850 m in Early Jurassic sediments of the Åre Formation. No shallow gas was observed by the ROV at the wellhead or by the MWD while drilling the 36" hole and the 17 1/2" hole. The well was drilled with Seawater and bentonite sweeps down to 479 m, with seawater, bentonite sweeps and Glydril from 479 m to 1000 m, and with Glydril mud from 1000 m to TD.

The well penetrated rocks of Quaternary, Tertiary, Cretaceous, and Jurassic age. The Cretaceous was represented by 6 m Springar Formation only. The Viking Group consisted of 31 m Spekk Formation, of which the upper half was highly radioactive, and 59 m Melke Formation. Top Fangst was penetrated at 1430 m. From petrophysical analyses and cuttings descriptions the primary target Fangst an Båt reservoirs consisted of highly porous sandstones and clay rich sections with high porosity due to shallow burial depth and little compaction. No hydrocarbons were found and no shows were recorded in the well.

No cores were cut. The MDT was run on wire line to establish pressure gradients and take fluid samples. A water gradient was established, and water was sampled in the Ile Formation at a depth of 1438.0 m.

The well was permanently abandoned on 24 November as a dry well.

Testing

No drill stem test was performed.

Cuttings at the NPD

| Cutting sample, top depth [m] | Cutting samples, bottom depth [m] |
|-------------------------------|-----------------------------------|
| 1010.00 | 1850.00 |

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

Palynological slides at the NPD

| Sample depth | Depth unit | Sample type | Laboratory |
|--------------|------------|-------------|------------|
| 1020.0 | [m] | C | BIOSTRAT |
| 1040.0 | [m] | C | BIOSTR |
| 1060.0 | [m] | C | BIOSTR |
| 1080.0 | [m] | C | BIOSTR |
| 1100.0 | [m] | C | BIOSTR |
| 1120.0 | [m] | C | BIOSTR |
| 1140.0 | [m] | C | BIOSTR |
| 1160.0 | [m] | C | BIOSTR |
| 1180.0 | [m] | C | BIOSTR |
| 1200.0 | [m] | C | BIOSTR |
| 1220.0 | [m] | C | BIOSTR |
| 1240.0 | [m] | C | BIOSTR |
| 1253.0 | [m] | C | BIOSTR |
| 1259.0 | [m] | C | BIOSTR |
| 1262.0 | [m] | C | BIOSTR |
| 1268.0 | [m] | C | BIOSTR |
| 1280.0 | [m] | C | BIOSTR |
| 1292.0 | [m] | C | BIOSTR |
| 1298.0 | [m] | C | BIOSTR |
| 1304.0 | [m] | C | BIOSTR |
| 1310.0 | [m] | C | BIOSTR |
| 1322.0 | [m] | C | BIOSTR |
| 1331.0 | [m] | C | BIOSTR |
| 1337.0 | [m] | C | BIOSTR |
| 1343.0 | [m] | C | BIOSTR |
| 1355.0 | [m] | C | BIOSTR |
| 1361.0 | [m] | C | BIOSTR |
| 1370.0 | [m] | C | BIOSTR |
| 1382.0 | [m] | C | BIOSTR |
| 1394.0 | [m] | C | BIOSTR |
| 1400.0 | [m] | C | BIOSTR |
| 1406.0 | [m] | C | BIOSTR |
| 1418.0 | [m] | C | BIOSTR |
| 1430.0 | [m] | C | BIOSTR |

| | | |
|------------|---|--------|
| 1433.0 [m] | C | BIOSTR |
| 1439.0 [m] | C | BIOSTR |
| 1445.0 [m] | C | BIOSTR |
| 1451.0 [m] | C | BIOSTR |
| 1457.0 [m] | C | BIOSTR |
| 1472.0 [m] | C | BIOSTR |
| 1481.0 [m] | C | BIOSTR |
| 1490.0 [m] | C | BIOSTR |
| 1499.0 [m] | C | BIOSTR |
| 1508.0 [m] | C | BIOSTR |
| 1520.0 [m] | C | BIOSTR |
| 1535.0 [m] | C | BIOSTR |
| 1550.0 [m] | C | BIOSTR |
| 1565.0 [m] | C | BIOSTR |
| 1574.0 [m] | C | BIOSTR |
| 1583.0 [m] | C | BIOSTR |
| 1592.0 [m] | C | BIOSTR |
| 1601.0 [m] | C | BIOSTR |
| 1610.0 [m] | C | BIOSTR |
| 1619.0 [m] | C | BIOSTR |
| 1628.0 [m] | C | BIOSTR |
| 1637.0 [m] | C | BIOSTR |
| 1646.0 [m] | C | BIOSTR |
| 1655.0 [m] | C | BIOSTR |
| 1664.0 [m] | C | BIOSTR |
| 1673.0 [m] | C | BIOSTR |
| 1682.0 [m] | C | BIOSTR |
| 1691.0 [m] | C | BIOSTR |
| 1700.0 [m] | C | BIOSTR |
| 1709.0 [m] | C | BIOSTR |
| 1718.0 [m] | C | BIOSTR |
| 1727.0 [m] | C | BIOSTR |
| 1736.0 [m] | C | BIOSTR |
| 1745.0 [m] | C | BIOSTR |
| 1754.0 [m] | C | BIOSTR |
| 1763.0 [m] | C | BIOSTR |
| 1772.0 [m] | C | BIOSTR |
| 1781.0 [m] | C | BIOSTR |
| 1790.0 [m] | C | BIOSTR |
| 1799.0 [m] | C | BIOSTR |

| | | |
|------------|---|--------|
| 1808.0 [m] | C | BIOSTR |
| 1817.0 [m] | C | BIOSTR |
| 1826.0 [m] | C | BIOSTR |
| 1835.0 [m] | C | BIOSTR |
| 1844.0 [m] | C | BIOSTR |
| 1850.0 [m] | C | BIOSTR |

Lithostratigraphy

| Top depth [m] | Lithostrat. unit |
|---------------|------------------------------|
| 426 | NORDLAND GP |
| 711 | NAUST FM |
| 1206 | KAI FM |
| 1275 | HORDALAND GP |
| 1275 | BRYGGE FM |
| 1288 | ROGALAND GP |
| 1288 | TARE FM |
| 1317 | TANG FM |
| 1332 | SHETLAND GP |
| 1332 | SPRINGAR FM |
| 1339 | VIKING GP |
| 1339 | SPEKK FM |
| 1371 | MELKE FM |
| 1430 | FANGST GP |
| 1430 | ILE FM |
| 1490 | BÅT GP |
| 1490 | TILJE FM |
| 1590 | ÅRE FM |

Composite logs

| Document name | Document format | Document size [KB] |
|-------------------------------|-----------------|--------------------|
| 5922_6507_6_3 | pdf | 0.29 |

Logs

| Log type | Log top depth [m] | Log bottom depth [m] |
|----------|-------------------|----------------------|
| MDT GR | 1294 | 1776 |

| | | |
|-----------------------|-----|------|
| MWD - ARC9 VD FRES GR | 474 | 1844 |
| VSP | 454 | 1830 |
| ZAIT MSIP | 996 | 1835 |
| ZAIT MSIP PEX | 996 | 1837 |

Casing and leak-off tests

| Casing type | Casing diam. [inch] | Casing depth [m] | Hole diam. [inch] | Hole depth [m] | LOT mud eqv. [g/cm ³] | Formation test type |
|-------------|---------------------|------------------|-------------------|----------------|-----------------------------------|---------------------|
| CONDUCTOR | 30 | 474.0 | 36 | 479.0 | 0.00 | LOT |
| SURF.COND. | 13 3/8 | 996.0 | 17 1/2 | 1000.0 | 1.59 | LOT |
| OPEN HOLE | | 1857.0 | 12 1/4 | 1857.0 | 0.00 | LOT |

Drilling mud

| Depth MD [m] | Mud weight [g/cm ³] | Visc. [mPa.s] | Yield point [Pa] | Mud type | Date measured |
|--------------|---------------------------------|---------------|------------------|----------|---------------|
| 440 | 1.30 | 21.0 | | Glydril | |
| 1430 | 1.27 | 17.0 | | Glydril | |
| 1690 | 1.27 | 16.0 | | Glydril | |
| 1850 | 1.28 | 16.0 | | Glydril | |
| 1850 | 1.27 | 18.0 | | Glydril | |