



General information

| | |
|------------------------------------|--|
| Wellbore name | 30/9-22 |
| Type | EXPLORATION |
| Purpose | WILDCAT |
| Status | P&A |
| Press release | link to press release |
| Factmaps in new window | link to map |
| Main area | NORTH SEA |
| Field | OSEBERG SØR |
| Discovery | 30/9-22 Stjerne |
| Well name | 30/9-22 |
| Seismic location | inline3401 & crossline 6973(NH05-M01-Full 3D cube) |
| Production licence | 104 |
| Drilling operator | StatoilHydro Petroleum AS |
| Drill permit | 1226-L |
| Drilling facility | POLAR PIONEER |
| Drilling days | 41 |
| Entered date | 29.01.2009 |
| Completed date | 10.03.2009 |
| Release date | 10.03.2011 |
| Publication date | 10.03.2011 |
| Purpose - planned | WILDCAT |
| Reentry | NO |
| Content | OIL/GAS |
| Discovery wellbore | YES |
| 1st level with HC, age | LATE JURASSIC |
| 1st level with HC, formation | INTRA HEATHER FM SS |
| 2nd level with HC, age | MIDDLE JURASSIC |
| 2nd level with HC, formation | TARBERT FM |
| Kelly bushing elevation [m] | 23.0 |
| Water depth [m] | 95.3 |
| Total depth (MD) [m RKB] | 3255.0 |
| Final vertical depth (TVD) [m RKB] | 3254.0 |
| Maximum inclination [°] | 4 |
| Bottom hole temperature [°C] | 117 |
| Oldest penetrated age | MIDDLE JURASSIC |
| Oldest penetrated formation | DRAKE FM |
| Geodetic datum | ED50 |



| | |
|----------------|------------------|
| NS degrees | 60° 17' 31.78" N |
| EW degrees | 2° 42' 5.84" E |
| NS UTM [m] | 6684143.45 |
| EW UTM [m] | 483503.35 |
| UTM zone | 31 |
| NPDID wellbore | 6034 |

Wellbore history

General

Well 30/9-22 (Katla) was drilled on the edge of the Horda Platform in the northern part of the Viking Graben, south of the Oseberg Sør field. The objective was to prove the presence of commercial hydrocarbons in the Middle Jurassic Tarbert Formation and to collect all data needed to assess the development of the prospect.

Operations and results

Wildcat well 30/9-22 was spudded with the semi-submersible installation Polar Pioneer on 29 January 2009 and drilled to TD at 3255 m in the Early Jurassic Dunlin Group. No shallow gas was observed by the ROV at the wellhead or by the MWD while drilling the 26" hole or the 17 1/2" hole. No significant problems occurred in the operations. The well was drilled with seawater and CaCl₂ /polymer down to 339 m and with Glydril water based mud from 339 m to TD.

The well penetrated rocks of Quaternary, Tertiary, Cretaceous, and Jurassic age. The Heather Formation (Intra-Heather Formation Sandstone) was encountered at 2828 m, 44 m shallower than prognosed. The Tarbert Formation was encountered at 2866 m, 55 m shallower than prognosed. The Intra Heather Formation sandstone was gas filled, and the Tarbert Formation sandstone contained both gas and oil. Pressure measurements indicated a higher gas gradient and a pressure regime that was ca one bar lower in the Intra-Heather reservoir compared to the Tarbert Formation. The Tarbert Formation had a gas-oil contact at 2874 m and an oil-water contact at 2911 m. No oil shows were recorded outside of the target reservoir sections.

Two cores were cut; the first one started in the Heather Formation and continued in the Tarbert Formation, core #2 was cut in the Tarbert Formation only. MDT fluid samples were collected in the Intra-Heather sandstone at 2829.9 m (gas), and in the Tarbert Formation at 2867.9 m (gas), 2893.5 m (oil), and 2920.8 m (water)

The well was permanently abandoned on 10 March 2009 as an oil and gas discovery.

Testing

Cuttings at the Norwegian Offshore Directorate

| Cutting sample, top depth [m] | Cutting samples, bottom depth [m] |
|-------------------------------|-----------------------------------|
| 340.00 | 3255.00 |

| | |
|----------------------------------|-----|
| 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 | 2841.0 | 2895.4 | [m] |
| 2 | 2895.5 | 2949.7 | [m] |

| | |
|-------------------------------|-------|
| Total core sample length [m] | 108.6 |
| Cores available for sampling? | YES |

Lithostratigraphy

| Top depth [mMD RKB] | Lithostrat. unit |
|---------------------|---------------------------------|
| 118 | NORDLAND GP |
| 688 | UTSIRA FM |
| 864 | HORDALAND GP |
| 2139 | ROGALAND GP |
| 2139 | BALDER FM |
| 2197 | SELE FM |
| 2255 | LISTA FM |
| 2345 | VÅLE FM |
| 2430 | SHETLAND GP |
| 2430 | HARDRÅDE FM |
| 2678 | KYRRE FM |
| 2749 | CROMER KNOLL GP |
| 2749 | SOLA FM |
| 2758 | ÅSGARD FM |
| 2790 | VIKING GP |
| 2790 | DRAUPNE FM |
| 2830 | HEATHER FM |
| 2867 | BRENT GP |
| 2867 | TARBERT FM |
| 2995 | NESS FM |
| 3205 | DUNLIN GP |
| 3205 | DRAKE FM |

Geochemical information





| Document name | Document format | Document size [MB] |
|--|-----------------|--------------------|
| 6034 01 30 9 22 gch transfer 1 | txt | 0.00 |
| 6034 02 30 9 22 gch results 1 | txt | 0.40 |

Logs

| Log type | Log top depth [m] | Log bottom depth [m] |
|---------------------------------|-------------------|----------------------|
| MDT PRESSURE | 2829 | 3032 |
| MDT SAMPLE | 2829 | 3032 |
| MWD LWD - ARC & GEOVISION6 | 2770 | 3255 |
| MWD LWD - POWERPULSE | 117 | 183 |
| MWD LWD - POWERPULSE ARCVISION9 | 183 | 1465 |
| MWD LWD - TELESCOPE ARCVISION8 | 1465 | 2770 |
| PEX HRLA MSIP | 2705 | 3248 |
| VSI ZOVSP | 650 | 3248 |

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 | 180.0 | 36 | 183.0 | 0.00 | LOT |
| SURF.COND. | 20 | 336.0 | 26 | 339.0 | 1.71 | LOT |
| INTERM. | 13 3/8 | 1460.0 | 17 1/2 | 1465.0 | 1.82 | LOT |
| INTERM. | 9 5/8 | 2768.0 | 12 1/2 | 2770.0 | 1.94 | LOT |
| OPEN HOLE | | 3255.0 | 8 1/2 | 3255.0 | 0.00 | LOT |

Drilling mud

| Depth MD [m] | Mud weight [g/cm3] | Visc. [mPa.s] | Yield point [Pa] | Mud type | Date measured |
|--------------|--------------------|---------------|------------------|----------|---------------|
| 478 | 1.25 | 17.0 | | Glydril | |
| 867 | 1.25 | 19.0 | | Glydril | |
| 1376 | 1.25 | 16.0 | | Glydril | |
| 1512 | 1.45 | 11.0 | | Glydril | |
| 1919 | 1.45 | 20.0 | | Glydril | |
| 2685 | 1.46 | 23.0 | | Glydril | |





Factpages

Wellbore / Exploration

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|------|------|------|--|---------|--|
| 2770 | 1.45 | 24.0 | | Glydril | |
| 2779 | 1.25 | 14.0 | | Glydril | |
| 2852 | 1.45 | 24.0 | | Glydril | |
| 2971 | 1.25 | 16.0 | | Glydril | |
| 3255 | 1.25 | 16.0 | | Glydril | |