



General information

| | |
|------------------------------------|---------------------------------|
| Wellbore name | 6507/2-2 |
| Type | EXPLORATION |
| Purpose | WILDCAT |
| Status | P&A |
| Factmaps in new window | link to map |
| Main area | NORWEGIAN SEA |
| Field | MARULK |
| Discovery | 6507/2-2 Marulk |
| Well name | 6507/2-2 |
| Seismic location | NH 9010 - 102 & SP 565 |
| Production licence | 122 |
| Drilling operator | Norsk Hydro Produksjon AS |
| Drill permit | 702-L |
| Drilling facility | POLAR PIONEER |
| Drilling days | 148 |
| Entered date | 21.10.1991 |
| Completed date | 16.03.1992 |
| Release date | 16.03.1994 |
| Publication date | 19.12.2007 |
| Purpose - planned | WILDCAT |
| Reentry | NO |
| Content | GAS/CONDENSATE |
| Discovery wellbore | YES |
| 1st level with HC, age | LATE CRETACEOUS |
| 1st level with HC, formation | LYSING FM |
| 2nd level with HC, age | LATE CRETACEOUS |
| 2nd level with HC, formation | LANGE FM |
| Kelly bushing elevation [m] | 23.0 |
| Water depth [m] | 384.0 |
| Total depth (MD) [m RKB] | 3958.0 |
| Final vertical depth (TVD) [m RKB] | 3953.0 |
| Maximum inclination [°] | 10 |
| Bottom hole temperature [°C] | 141 |
| Oldest penetrated age | EARLY JURASSIC |
| Oldest penetrated formation | ÅRE FM |
| Geodetic datum | ED50 |
| NS degrees | 65° 55' 1.69" N |
| EW degrees | 7° 30' 54.56" E |



| | |
|----------------|------------|
| NS UTM [m] | 7311658.69 |
| EW UTM [m] | 432391.00 |
| UTM zone | 32 |
| NPDID wellbore | 1840 |

Wellbore history

General

The Dønna Terrace forms a large down faulted block on the western margin of the Trøndelag Platform, situated between the Nordland Ridge and the Vøringsfjord Basin. The structure to be tested by 6507/2-2 is situated on the western edge of the Dønna Terrace. This structure was earlier tested by well 6507/2-1, which however left a considerable untested column up-dip from the well position. The main target of the well was the Jurassic reservoirs of Garn, Ile, and Tilje Formation. The secondary objectives were to test the prospectivity of the Cretaceous sands in the Lysing and Lange Formations or at least to obtain stratigraphic information from these formations.

Operations and results

Wildcat well 6507/2-2 was spudded with the semi-submersible installation Polar Pioneer on 21 October 1991 and drilled to TD at 3958 m in Early Jurassic sediments of the Åre Formation. The well had 37% downtime due mainly to repeated occurrences of stuck drill pipe. Drilling went relatively smooth down to setting of the 9 5/8" casing shoe at 2760 m. After having cut two cores in the 8 1/2" section the well was shut in due to an influx at 3336 m. The well was killed with increased mud weight, but the pipe was found to be stuck. The pipe could not be freed and was cut at 3175 m. The well was then plugged back and sidetracked from 2989 m and drilled to 3326 m with minor problems. A 7" liner was run and set with shoe at 3324 m and the 6" section was then drilled to 3737 where parts of the bit sub was lost in the hole. This led to 20 days lost while attempting to recover the fish and sidetrack past the fish. Eventually the fish was partly recovered and drilling commenced to TD. The well was drilled with seawater and hi-vis pills down to 685 m and with a KCl/polymer mud from 685 m to TD.

Oil shows were recorded on sandstone laminae in the interval 2208 ? 2750 m in the Shetland Group. The Cretaceous Lysing Formation was encountered at 2817.5 m, and the Lange Formation at 2831 m. A total of 23 m net sand was interpreted in the Cretaceous interval. Both Lysing and Lange Formation proved to be gas filled and the reservoirs were tested and exhibited fair to good production rates. Top Jurassic was encountered at 3380 m with a 292.5 m thick Melke Formation. Top Garn Formation came in at 3672.5 m. A total of 65.8 m net sand with an average porosity of 14.8% was penetrated in the Early and Middle Jurassic. The Jurassic sands were water filled, but weak to moderate shows were recorded on all cores from the Jurassic.

Six cores were cut in the well. The two first were cut in the first hole from 2822 m to 2849.4 m in the Lysing and top Lange Formation and from 3278 m to 3296 m in the hydrocarbon-bearing Intra-Lange Formation sandstone. Cores 3 to 6 were cut in the sidetrack. Core 3 was cut over a second Intra-Lange sand from 3330 m to 3339.4 m; core 4 was cut from 3685 m to 3700 m in the Middle Jurassic Fangst Group, while core 5 and 6 were cut at 3770 m to 3778.5 m and at 3921 m to 3930 m in sandstones of the Early Jurassic Båt Group. RFT fluid samples were taken at 3270.5 m (water and filtrate), 3280 m, 2825 m (water/filtrate and gas), and 3331.6 m (water/filtrate and gas).

The well was permanently abandoned on 16 March 1992 as a gas condensate discovery.

Testing



Two DST tests were performed in the Cretaceous.

DST 1A from the interval 3285.4 m to 3294.4 m in an intra- Lange Formation sandstone flowed 676000 Sm3 gas and 107 Sm3 oil/condensate per day through a 25.4mm choke. The GOR was 4950 Sm3/Sm3, the condensate density was 0.796 g/cm3, the gas gravity (air =1) was 0.63, and the gas contained 0.65 % CO2 and 0.2 ppm H2S. The bottom hole temperature recorded in the test was 118.4 deg C.

DST 2 from 2820 m to 2831 m in the Lysing Formation flowed 865000 Sm3 gas and 80 Sm3 oil/condensate per day through a 25.5 mm choke. The GOR was 10800 Sm3/Sm3, the condensate density was 0.787 g/cm3, the gas gravity (air =1) was 0.645, and the gas contained 0.7 % CO2 and 0.1 ppm H2S. The bottom hole temperature recorded in the test was 99.1 deg C.

Cuttings at the Norwegian Offshore Directorate

| Cutting sample, top depth [m] | Cutting samples, bottom depth [m] |
|----------------------------------|-----------------------------------|
| 690.00 | 3957.00 |
| 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 | 2822.0 | 2849.5 | [m] |
| 2 | 3273.0 | 3295.8 | [m] |
| 3 | 3330.0 | 3339.3 | [m] |
| 4 | 3685.4 | 3700.4 | [m] |
| 5 | 3770.0 | 3778.5 | [m] |
| 6 | 3921.0 | 3929.3 | [m] |

| | |
|-------------------------------|------|
| Total core sample length [m] | 91.4 |
| Cores available for sampling? | YES |

Core photos



2822-2827m



2827-2832m



2832-2837m



2837-2842m



2842-2847m



2847-2849m



3273-3278m



3278-3283m



3283-3288m



3288-3293m



3293-3295m



3330-3335m



3335-3339m



3685-3690m



3690-3695m



3695-3700m



3700-3701m



3770-3775m



3775-3778m



3921-3926m



3926-3929m

Palynological slides at the Norwegian Offshore Directorate

| Sample depth | Depth unit | Sample type | Laboratory |
|--------------|------------|-------------|------------|
| 1456.0 | [m] | SWC | HYDRO |
| 1530.0 | [m] | DC | STRAT |
| 1560.0 | [m] | DC | STRAT |
| 1590.0 | [m] | DC | STRAT |
| 1600.0 | [m] | SWC | HYDRO |
| 1620.0 | [m] | DC | STRAT |
| 1650.0 | [m] | DC | STRAT |
| 1670.0 | [m] | SWC | HYDRO |
| 1680.0 | [m] | DC | STRAT |



| | | | |
|--------|-----|-----|-------|
| 1700.0 | [m] | SWC | HYDRO |
| 1710.0 | [m] | DC | STRAT |
| 1740.0 | [m] | DC | STRAT |
| 1760.0 | [m] | SWC | HYDRO |
| 1770.0 | [m] | DC | STRAT |
| 1780.0 | [m] | DC | STRAT |
| 1790.0 | [m] | DC | STRAT |
| 1800.0 | [m] | DC | STRAT |
| 1810.0 | [m] | DC | STRAT |
| 1820.0 | [m] | DC | STRAT |
| 1830.0 | [m] | DC | STRAT |
| 1851.0 | [m] | SWC | HYDRO |
| 1855.0 | [m] | SWC | HYDRO |
| 1860.0 | [m] | DC | STRAT |
| 1890.0 | [m] | DC | STRAT |
| 1899.0 | [m] | SWC | HYDRO |
| 1920.0 | [m] | DC | STRAT |
| 1930.0 | [m] | SWC | HYDRO |
| 1940.0 | [m] | SWC | HYDRO |
| 1980.0 | [m] | DC | STRAT |
| 1982.0 | [m] | SWC | HYDRO |
| 1992.0 | [m] | SWC | HYDRO |
| 2010.0 | [m] | DC | STRAT |
| 2040.0 | [m] | DC | STRAT |
| 2070.0 | [m] | DC | STRAT |
| 2070.0 | [m] | SWC | HYDRO |
| 2100.0 | [m] | DC | STRAT |
| 2130.0 | [m] | DC | STRAT |
| 2140.0 | [m] | SWC | HYDRO |
| 2160.0 | [m] | DC | STRAT |
| 2190.0 | [m] | DC | STRAT |
| 2208.0 | [m] | SWC | HYDRO |
| 2220.0 | [m] | DC | STRAT |
| 2235.0 | [m] | DC | STRAT |
| 2260.0 | [m] | DC | STRAT |
| 2280.0 | [m] | SWC | HYDRO |
| 2290.0 | [m] | DC | STRAT |
| 2320.0 | [m] | DC | STRAT |
| 2345.0 | [m] | SWC | HYDRO |
| 2350.0 | [m] | DC | STRAT |



| | | | |
|--------|-----|-----|-------|
| 2380.0 | [m] | DC | STRAT |
| 2424.0 | [m] | SWC | HYDRO |
| 2440.0 | [m] | DC | STRAT |
| 2470.0 | [m] | DC | STRAT |
| 2555.0 | [m] | DC | STRAT |
| 2615.0 | [m] | DC | STRAT |
| 2675.0 | [m] | DC | STRAT |
| 2700.0 | [m] | SWC | HYDRO |
| 2725.0 | [m] | DC | STRAT |
| 2750.0 | [m] | DC | STRAT |
| 2765.0 | [m] | SWC | HYDRO |
| 2775.0 | [m] | DC | STRAT |
| 2795.0 | [m] | DC | STRAT |
| 2800.0 | [m] | DC | STRAT |
| 2810.0 | [m] | DC | STRAT |
| 2818.0 | [m] | SWC | HYDRO |
| 2820.0 | [m] | DC | STRAT |
| 2822.2 | [m] | C | OD |
| 2822.6 | [m] | C | STRAT |
| 2822.7 | [m] | DC | STRAT |
| 2823.1 | [m] | C | OD |
| 2823.1 | [m] | C | STRAT |
| 2823.6 | [m] | C | STRAT |
| 2824.6 | [m] | C | STRAT |
| 2827.0 | [m] | C | STRAT |
| 2827.3 | [m] | C | STRAT |
| 2828.5 | [m] | C | STRAT |
| 2828.8 | [m] | C | OD |
| 2829.2 | [m] | C | STRAT |
| 2831.4 | [m] | C | STRAT |
| 2832.0 | [m] | C | STRAT |
| 2832.5 | [m] | C | STRAT |
| 2832.9 | [m] | C | STRAT |
| 2833.0 | [m] | C | STRAT |
| 2833.1 | [m] | C | STRAT |
| 2833.3 | [m] | C | OD |
| 2834.8 | [m] | C | STRAT |
| 2836.8 | [m] | C | OD |
| 2836.9 | [m] | C | STRAT |
| 2839.0 | [m] | C | STRAT |



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|--------|-----|-----|-------|
| 2840.0 | [m] | DC | STRAT |
| 2840.4 | [m] | C | STRAT |
| 2841.8 | [m] | C | STRAT |
| 2844.0 | [m] | C | STRAT |
| 2845.1 | [m] | C | STRAT |
| 2849.0 | [m] | C | STRAT |
| 2849.4 | [m] | C | STRAT |
| 2860.0 | [m] | DC | STRAT |
| 2870.0 | [m] | DC | STRAT |
| 2880.0 | [m] | DC | STRAT |
| 2890.0 | [m] | DC | STRAT |
| 2900.0 | [m] | DC | STRAT |
| 2901.0 | [m] | SWC | HYDRO |
| 2910.0 | [m] | DC | STRAT |
| 2920.0 | [m] | SWC | HYDRO |
| 2930.0 | [m] | DC | STRAT |
| 2950.0 | [m] | SWC | HYDRO |
| 2960.0 | [m] | DC | STRAT |
| 2970.0 | [m] | SWC | HYDRO |
| 2980.0 | [m] | DC | STRAT |
| 3000.0 | [m] | DC | STRAT |
| 3020.0 | [m] | DC | STRAT |
| 3025.0 | [m] | SWC | HYDRO |
| 3030.0 | [m] | DC | STRAT |
| 3040.0 | [m] | DC | STRAT |
| 3050.0 | [m] | DC | STRAT |
| 3060.0 | [m] | DC | STRAT |
| 3070.0 | [m] | DC | STRAT |
| 3075.0 | [m] | SWC | HYDRO |
| 3080.0 | [m] | DC | STRAT |
| 3110.0 | [m] | DC | STRAT |
| 3122.0 | [m] | SWC | HYDRO |
| 3130.0 | [m] | DC | STRAT |
| 3140.0 | [m] | DC | STRAT |
| 3150.0 | [m] | DC | STRAT |
| 3160.0 | [m] | DC | STRAT |
| 3163.0 | [m] | SWC | HYDRO |
| 3170.0 | [m] | DC | STRAT |
| 3173.0 | [m] | SWC | HYDRO |
| 3180.0 | [m] | DC | STRAT |



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|--------|-----|-----|-------|
| 3190.0 | [m] | DC | STRAT |
| 3194.0 | [m] | SWC | HYDRO |
| 3210.0 | [m] | DC | STRAT |
| 3225.0 | [m] | DC | STRAT |
| 3240.0 | [m] | DC | STRAT |
| 3251.0 | [m] | SWC | HYDRO |
| 3255.0 | [m] | DC | STRAT |
| 3260.0 | [m] | DC | STRAT |
| 3265.0 | [m] | SWC | HYDRO |
| 3270.0 | [m] | SWC | HYDRO |
| 3270.0 | [m] | DC | STRAT |
| 3273.0 | [m] | DC | STRAT |
| 3274.0 | [m] | C | STRAT |
| 3275.0 | [m] | SWC | HYDRO |
| 3275.0 | [m] | C | STRAT |
| 3277.0 | [m] | C | STRAT |
| 3279.0 | [m] | C | STRAT |
| 3286.9 | [m] | C | STRAT |
| 3287.0 | [m] | C | STRAT |
| 3288.0 | [m] | C | HYDRO |
| 3294.3 | [m] | C | STRAT |
| 3294.7 | [m] | C | STRAT |
| 3295.0 | [m] | SWC | HYDRO |
| 3295.0 | [m] | SWC | HYDRO |
| 3300.0 | [m] | DC | STRAT |
| 3305.0 | [m] | DC | STRAT |
| 3307.0 | [m] | DC | STRAT |
| 3310.0 | [m] | DC | STRAT |
| 3320.0 | [m] | DC | STRAT |
| 3325.0 | [m] | SWC | HYDRO |
| 3326.0 | [m] | DC | STRAT |
| 3327.0 | [m] | DC | STRAT |
| 3329.9 | [m] | SWC | HYDRO |
| 3330.1 | [m] | C | STRAT |
| 3335.0 | [m] | C | STRAT |
| 3335.0 | [m] | DC | STRAT |
| 3338.6 | [m] | C | STRAT |
| 3345.0 | [m] | DC | STRAT |
| 3350.0 | [m] | DC | STRAT |
| 3355.0 | [m] | DC | STRAT |



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|--------|-----|-----|-------|
| 3360.0 | [m] | DC | STRAT |
| 3365.0 | [m] | DC | STRAT |
| 3367.3 | [m] | SWC | HYDRO |
| 3370.0 | [m] | DC | STRAT |
| 3373.0 | [m] | SWC | HYDRO |
| 3375.0 | [m] | DC | STRAT |
| 3380.0 | [m] | DC | STRAT |
| 3383.2 | [m] | SWC | HYDRO |
| 3385.0 | [m] | DC | STRAT |
| 3395.0 | [m] | DC | STRAT |
| 3400.0 | [m] | DC | STRAT |
| 3405.0 | [m] | DC | STRAT |
| 3410.0 | [m] | DC | STRAT |
| 3415.0 | [m] | DC | STRAT |
| 3420.0 | [m] | DC | STRAT |
| 3425.0 | [m] | DC | STRAT |
| 3430.0 | [m] | DC | STRAT |
| 3435.0 | [m] | DC | STRAT |
| 3440.0 | [m] | DC | STRAT |
| 3445.0 | [m] | DC | STRAT |
| 3450.0 | [m] | DC | STRAT |
| 3455.0 | [m] | DC | STRAT |
| 3460.0 | [m] | DC | STRAT |
| 3465.0 | [m] | DC | STRAT |
| 3470.0 | [m] | DC | STRAT |
| 3475.0 | [m] | DC | STRAT |
| 3480.0 | [m] | DC | STRAT |
| 3485.0 | [m] | DC | STRAT |
| 3490.0 | [m] | DC | STRAT |
| 3495.0 | [m] | DC | STRAT |
| 3500.0 | [m] | DC | STRAT |
| 3508.4 | [m] | SWC | HYDRO |
| 3510.0 | [m] | DC | STRAT |
| 3517.0 | [m] | DC | STRAT |
| 3530.0 | [m] | DC | STRAT |
| 3540.0 | [m] | DC | STRAT |
| 3545.0 | [m] | DC | STRAT |
| 3550.0 | [m] | DC | STRAT |
| 3555.0 | [m] | DC | STRAT |
| 3560.0 | [m] | DC | STRAT |



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|--------|-----|-----|-------|
| 3570.0 | [m] | DC | STRAT |
| 3580.0 | [m] | DC | STRAT |
| 3590.0 | [m] | DC | STRAT |
| 3600.0 | [m] | DC | STRAT |
| 3610.0 | [m] | DC | STRAT |
| 3612.2 | [m] | SWC | HYDRO |
| 3620.0 | [m] | DC | STRAT |
| 3630.0 | [m] | DC | STRAT |
| 3640.0 | [m] | DC | STRAT |
| 3650.0 | [m] | DC | STRAT |
| 3660.0 | [m] | DC | STRAT |
| 3665.0 | [m] | DC | STRAT |
| 3670.0 | [m] | DC | STRAT |
| 3680.0 | [m] | DC | STRAT |
| 3685.0 | [m] | DC | STRAT |
| 3685.7 | [m] | C | STRAT |
| 3700.0 | [m] | DC | STRAT |
| 3700.4 | [m] | C | STRAT |
| 3705.0 | [m] | DC | STRAT |
| 3710.0 | [m] | DC | STRAT |
| 3715.0 | [m] | DC | STRAT |
| 3720.0 | [m] | DC | STRAT |
| 3725.0 | [m] | DC | STRAT |
| 3730.0 | [m] | DC | STRAT |
| 3735.0 | [m] | DC | STRAT |
| 3737.0 | [m] | DC | STRAT |
| 3740.0 | [m] | DC | STRAT |
| 3743.2 | [m] | SWC | HYDRO |
| 3745.0 | [m] | DC | STRAT |
| 3750.0 | [m] | DC | STRAT |
| 3760.0 | [m] | DC | STRAT |
| 3770.0 | [m] | DC | STRAT |
| 3772.8 | [m] | C | STRAT |
| 3774.8 | [m] | C | STRAT |
| 3778.4 | [m] | C | STRAT |
| 3780.0 | [m] | DC | STRAT |
| 3784.0 | [m] | SWC | HYDRO |
| 3784.0 | [m] | SWC | HYDRO |
| 3785.0 | [m] | DC | STRAT |
| 3790.0 | [m] | DC | STRAT |



| | | |
|------------|-----|-------|
| 3795.0 [m] | DC | STRAT |
| 3800.0 [m] | DC | STRAT |
| 3810.0 [m] | DC | STRAT |
| 3820.0 [m] | DC | STRAT |
| 3830.0 [m] | DC | STRAT |
| 3842.0 [m] | DC | STRAT |
| 3851.0 [m] | SWC | HYDRO |
| 3852.0 [m] | DC | STRAT |
| 3862.0 [m] | DC | STRAT |
| 3872.0 [m] | DC | STRAT |
| 3882.0 [m] | DC | STRAT |
| 3892.0 [m] | DC | STRAT |
| 3902.0 [m] | DC | STRAT |
| 3912.0 [m] | DC | STRAT |
| 3920.0 [m] | DC | STRAT |
| 3922.0 [m] | C | STRAT |
| 3923.6 [m] | C | STRAT |
| 3925.0 [m] | C | STRAT |
| 3928.5 [m] | C | STRAT |
| 3929.0 [m] | C | STRAT |
| 3929.4 [m] | C | STRAT |
| 3932.0 [m] | DC | STRAT |
| 3940.0 [m] | DC | STRAT |
| 3950.0 [m] | DC | STRAT |
| 3957.0 [m] | DC | STRAT |

Oil samples at the Norwegian Offshore Directorate

| Test type | Bottle number | Top depth MD [m] | Bottom depth MD [m] | Fluid type | Test time | Samples available |
|-----------|---------------|------------------|---------------------|-------------|--------------------|-------------------|
| DST | TEST1A | 3294.00 | 3285.00 | CONDENSTATE | 16.02.1992 - 23:00 | YES |
| DST | TEST2 | 2831.00 | 2820.00 | | 02.03.1992 - 03:57 | YES |

Lithostratigraphy

| | |
|---------------------|-----------------------------|
| Top depth [mMD RKB] | Lithostrat. unit |
| 407 | NORDLAND GP |



| | |
|------|---------------------------------|
| 407 | NAUST FM |
| 1397 | KAI FM |
| 1680 | HORDALAND GP |
| 1680 | BRYGGE FM |
| 1850 | ROGALAND GP |
| 1850 | TARE FM |
| 1941 | TANG FM |
| 1987 | SHETLAND GP |
| 2818 | CROMER KNOLL GP |
| 2818 | LYSING FM |
| 2831 | LANGE FM |
| 3380 | VIKING GP |
| 3380 | MELKE FM |
| 3673 | FANGST GP |
| 3673 | GARN FM |
| 3698 | NOT FM |
| 3703 | ILE FM |
| 3720 | BÅT GP |
| 3720 | ROR FM |
| 3746 | TOFTE FM |
| 3770 | TILJE FM |
| 3810 | ÅRE FM |

Geochemical information

| Document name | Document format | Document size [MB] |
|------------------------|-----------------|--------------------|
| 1840_1 | pdf | 0.51 |
| 1840_2 | pdf | 1.50 |
| 1840_3 | pdf | 0.67 |
| 1840_4 | pdf | 0.33 |
| 1840_5 | pdf | 2.28 |
| 1840_6 | pdf | 1.35 |

Documents - older Norwegian Offshore Directorate WDSS reports and other related documents

| Document name | Document format | Document size [MB] |
|--|-----------------|--------------------|
| 1840_01_WDSS_General_Information | pdf | 0.89 |





| | | |
|---|-----|------|
| 1840_02_WDSS_completion_log | pdf | 0.22 |
|---|-----|------|

Documents - reported by the production licence (period for duty of secrecy expired)

| Document name | Document format | Document size [MB] |
|---|-----------------|--------------------|
| 1840_6507_2_2_COMPLETION_REPORT_AND_LOG | pdf | 20.03 |

Drill stem tests (DST)

| Test number | From depth MD [m] | To depth MD [m] | Choke size [mm] |
|-------------|-------------------|-----------------|-----------------|
| 1.0 | 3285 | 3294 | 25.4 |
| 2.0 | 2820 | 2831 | 25.4 |

| Test number | Final shut-in pressure [MPa] | Final flow pressure [MPa] | Bottom hole pressure [MPa] | Downhole temperature [°C] |
|-------------|------------------------------|---------------------------|----------------------------|---------------------------|
| 1.0 | | | | |
| 2.0 | | | | |

| Test number | Oil [Sm3/day] | Gas [Sm3/day] | Oil density [g/cm3] | Gas grav. rel.air | GOR [m3/m3] |
|-------------|---------------|---------------|---------------------|-------------------|-------------|
| 1.0 | 107 | 676000 | 0.790 | 0.630 | 6317 |
| 2.0 | 80 | 865000 | 0.780 | 0.640 | 1081 |

Logs

| Log type | Log top depth [m] | Log bottom depth [m] |
|--------------------|-------------------|----------------------|
| CBL VDL GR CCC | 1900 | 2597 |
| CST | 1940 | 2097 |
| CST | 2115 | 2591 |
| CST | 2610 | 3249 |
| DLL MSFL GR SP | 2100 | 2602 |
| ISF BHC MSFL GR SP | 474 | 3250 |
| LDT CNL GR | 1026 | 3250 |
| MWD | 474 | 3262 |
| RFT | 2205 | 2574 |





| | | |
|---------|------|------|
| SHDT GR | 1026 | 3250 |
| TEMP | 500 | 2025 |
| TEMP | 998 | 2551 |
| VSP | 474 | 3250 |

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 | 491.0 | 36 | 491.0 | 0.00 | LOT |
| INTERM. | 18 5/8 | 671.0 | 24 | 685.0 | 1.48 | LOT |
| INTERM. | 13 3/8 | 1399.0 | 17 1/2 | 1414.0 | 1.72 | LOT |
| INTERM. | 9 5/8 | 2761.0 | 12 1/4 | 2777.0 | 2.02 | LOT |
| INTERM. | 7 | 3324.0 | 8 1/2 | 3958.0 | 2.00 | LOT |

Drilling mud

| Depth MD [m] | Mud weight [g/cm3] | Visc. [mPa.s] | Yield point [Pa] | Mud type | Date measured |
|-----------------|--------------------------|------------------|---------------------|-------------|------------------|
| 407 | 1.00 | | | WATER BASED | |
| 430 | 1.61 | 16.0 | | WATER BASED | |
| 491 | 1.05 | 18.0 | | WATER BASED | |
| 505 | 1.05 | 18.0 | | WATER BASED | |
| 685 | 1.05 | 18.0 | | WATER BASED | |
| 1051 | 1.26 | 17.0 | | WATER BASED | |
| 1238 | 1.60 | 12.0 | | WATER BASED | |
| 1259 | 1.26 | 13.0 | | WATER BASED | |
| 1414 | 1.26 | 14.0 | | WATER BASED | |
| 1600 | 1.30 | 14.0 | | WATER BASED | |
| 1959 | 1.51 | 20.0 | | WATER BASED | |
| 2100 | 1.55 | 18.0 | | WATER BASED | |
| 2355 | 1.55 | 25.0 | | WATER BASED | |
| 2449 | 1.55 | 24.0 | | WATER BASED | |
| 2517 | 1.57 | 25.0 | | WATER BASED | |
| 2568 | 1.70 | 13.0 | | WATER BASED | |
| 2568 | 1.70 | 15.0 | | WATER BASED | |
| 2727 | 1.57 | 23.0 | | WATER BASED | |
| 2775 | 1.60 | 28.0 | | WATER BASED | |
| 2777 | 1.60 | 28.0 | | WATER BASED | |



| | | | | | |
|------|------|------|--|-------------|--|
| 2783 | 1.50 | 22.0 | | WATER BASED | |
| 2821 | 1.50 | 19.0 | | WATER BASED | |
| 2843 | 1.50 | 20.0 | | WATER BASED | |
| 2863 | 1.50 | 20.0 | | WATER BASED | |
| 2900 | 1.70 | 22.0 | | WATER BASED | |
| 2924 | 1.50 | 19.0 | | WATER BASED | |
| 2987 | 1.50 | 19.0 | | WATER BASED | |
| 2989 | 1.70 | 23.0 | | WATER BASED | |
| 3013 | 1.50 | 17.0 | | WATER BASED | |
| 3045 | 1.50 | 17.0 | | WATER BASED | |
| 3084 | 1.70 | 25.0 | | WATER BASED | |
| 3112 | 1.70 | 26.0 | | WATER BASED | |
| 3154 | 1.70 | 24.0 | | WATER BASED | |
| 3156 | 1.50 | 15.0 | | WATER BASED | |
| 3161 | 1.70 | 24.0 | | WATER BASED | |
| 3175 | 1.70 | 22.0 | | WATER BASED | |
| 3188 | 1.70 | 25.0 | | WATER BASED | |
| 3212 | 1.86 | 26.0 | | WATER BASED | |
| 3257 | 1.70 | 28.0 | | WATER BASED | |
| 3265 | 1.50 | 16.0 | | WATER BASED | |
| 3274 | 1.86 | 27.0 | | WATER BASED | |
| 3283 | 1.62 | 13.0 | | WATER BASED | |
| 3296 | 1.50 | 16.0 | | WATER BASED | |
| 3307 | 1.86 | 27.0 | | WATER BASED | |
| 3326 | 1.70 | 24.0 | | WATER BASED | |
| 3330 | 1.75 | 20.0 | | WATER BASED | |
| 3336 | 1.70 | 25.0 | | WATER BASED | |
| 3448 | 1.75 | 20.0 | | WATER BASED | |
| 3570 | 1.75 | 23.0 | | WATER BASED | |
| 3626 | 1.86 | 31.0 | | WATER BASED | |
| 3638 | 1.75 | 24.0 | | WATER BASED | |
| 3670 | 1.86 | 28.0 | | WATER BASED | |
| 3678 | 1.75 | 23.0 | | WATER BASED | |
| 3684 | 1.86 | 30.0 | | WATER BASED | |
| 3685 | 1.86 | 27.0 | | WATER BASED | |
| 3696 | 1.86 | 27.0 | | WATER BASED | |
| 3700 | 1.86 | 28.0 | | WATER BASED | |
| 3702 | 1.86 | 29.0 | | WATER BASED | |
| 3705 | 1.86 | 31.0 | | WATER BASED | |
| 3710 | 1.86 | 31.0 | | WATER BASED | |



| | | | | | |
|------|------|------|--|-------------|--|
| 3712 | 1.86 | 29.0 | | WATER BASED | |
| 3721 | 1.86 | 30.0 | | WATER BASED | |
| 3736 | 1.86 | 31.0 | | WATER BASED | |
| 3737 | 1.86 | 27.0 | | WATER BASED | |
| 3739 | 1.86 | 32.0 | | WATER BASED | |
| 3741 | 1.86 | 30.0 | | WATER BASED | |
| 3751 | 1.86 | 30.0 | | WATER BASED | |
| 3770 | 1.86 | 31.0 | | WATER BASED | |
| 3796 | 1.86 | 31.0 | | WATER BASED | |
| 3910 | 1.86 | 31.0 | | WATER BASED | |
| 3958 | 1.86 | 28.0 | | WATER BASED | |
| 3958 | 1.86 | 33.0 | | WATER BASED | |

Thin sections at the Norwegian Offshore Directorate

| Depth | Unit |
|---------|------|
| 2824.25 | [m] |
| 2825.00 | [m] |
| 2826.25 | [m] |
| 2828.05 | [m] |
| 2831.25 | [m] |
| 3281.00 | [m] |
| 3282.50 | [m] |
| 3284.00 | [m] |
| 3286.50 | [m] |
| 3287.75 | [m] |
| 3291.75 | [m] |
| 3335.50 | [m] |
| 3337.25 | [m] |
| 3337.50 | [m] |
| 3687.50 | [m] |
| 3690.00 | [m] |
| 3691.65 | [m] |
| 3692.45 | [m] |
| 3694.22 | [m] |
| 3695.50 | [m] |
| 3698.50 | [m] |
| 3698.75 | [m] |
| 3771.25 | [m] |
| 3777.00 | [m] |



Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

| Document name | Document format | Document size [MB] |
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