



General information





Wellbore name	7316/5-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	BARENTS SEA
Discovery	7316/5-1
Well name	7316/5-1
Seismic location	NH 9109-112 & SP. 543.49
Production licence	184
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	740-L
Drilling facility	POLAR PIONEER
Drilling days	77
Entered date	21.07.1992
Completed date	05.10.1992
Release date	05.10.1994
Publication date	02.12.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS
Discovery wellbore	YES
1st level with HC, age	EOCENE
1st level with HC, formation	TORSK FM
Kelly bushing elevation [m]	23.0
Water depth [m]	450.0
Total depth (MD) [m RKB]	4027.0
Final vertical depth (TVD) [m RKB]	4014.0
Maximum inclination [°]	12.5
Bottom hole temperature [°C]	183
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	KVEITE FM
Geodetic datum	ED50
NS degrees	73° 31' 11.89" N
EW degrees	16° 25' 59.7" E
NS UTM [m]	8159255.68
EW UTM [m]	545381.15
UTM zone	33
NPDID wellbore	1987



Wellbore history

General

Wildcat well 7316/5-1 is located in the Vestbakken Volcanic Province of Bjørnøya West area. The well is located about 150 km south Southwest of Bjørnøya, and about 150 km North-west of well 7219/9-1 which was used for correlation purposes.

The Primary objective of the well was the potential of Tertiary prospects at lower Oligocene and upper Eocene levels. A secondary objective was to undertake a sampling and coring programme to provide improved stratigraphical control in the area.

Operations and results

Well 7316/5-1 was spudded with the semi submersible installation Polar Pioneer 21 July 1992 and drilled to TD at 4027 m in the Late Cretaceous Nygrunnen Group. The first hole was drilled to 906 m where it had to be plugged and abandoned due to gas influx and lost circulation. The rig was moved 43.4 m and the well was re-spudded on 5 August. On the second attempt, an 8-1/2" pilot hole was drilled to 613 m. A drilling break with associated gas production was observed at 606 m and a cement plug was set over the interval 540 m to 597 m. The well was drilled with spud mud down to 921 m, with KCl / PHPA polymer mud from 921 m to 3800 m. From 3800 m to TD KCl was allowed to deplete naturally and the system was slowly converted to a higher temperature stable mud.

The Uppermost Sandstone of the Eocene Sotbakken Group B2 Member was encountered from 1340 m to 1383 m, and was considered to be gas bearing over the interval 1340 -1358.5 m. From a gross thickness of 43.0 m, a total net pay thickness of 9.75 m was calculated, giving a net/gross ratio of 0.23. Average porosity of 28.2% and average Sw of 35.9% was computed in the pay zone. A second sandstone was encountered from 1442 m to 1469 m in the Sotbakken Group B2 Member. Gross thickness of this Sand was 27.0 m, with average porosity of 32,1 %. It proved to be entirely water wet.

Numerous igneous intrusions were penetrated below 2976 m (Middle to Early Eocene level) throughout the well to TD. The intrusions were from 5 to 44 m thick.

No oil shows were recorded in the well. Gas peaks were recorded at 2973 m (3.04 % C1) and at 3063 m (14.1 % C1 ? C4). A total of three cores were cut at isolated intervals through the well. One core was taken over the interval 896 m - 907 m in sandstones of the Nordland Group "A" Formation. The second core was cut in the Eocene sand from 1347.5 m to 1375 m. The third core was cut from 1451.5 m to 1472 m in the lowermost sandstone of the Sotbakken Group B2 Member. Sidewall cores were taken all through the well from 567 m in the Nordland Group down to 4025 m in the Nygrunnen Group. A total of 10 successful RFT pressure measurements were taken in one run over the interval 1340 m - 1377 m. An RFT sample was collected at 1350 m and recovered 0.8 litres of mud filtrate and 31.0 SFC of dry gas. CST run 1A and 1B (sidewall cores) were run in the first hole. Otherwise all cores and RFT's were taken in the second hole.

The well was plugged and abandoned completed 6th October 1992 as a gas discovery.

Testing

The interval 1338.5 - 1350 m was tested and produced gas at a rate of 563,000 Sm³/D, with 25.4mm choke size.



Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
615.00	4027.00

Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	896.0	906.6	[m]
2	1347.5	1374.0	[m]
3	1460.6	1472.0	[m]

Total core sample length [m]	48.6
Cores available for sampling?	YES

Core photos



896-900m



900-904m



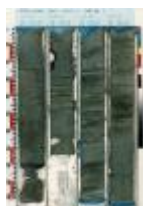
904-906m



1347-1351m



1351-1355m



1355-1359m



1359-1363m



1363-1367m



1367-1371m



1371-1374m



1460-1464m



1464-1468m



1468-1472m

**Palynological slides at the Norwegian Offshore Directorate**

Sample depth	Depth unit	Sample type	Laboratory
567.0	[m]	SWC	OD
571.0	[m]	SWC	OD
580.0	[m]	SWC	OD
590.0	[m]	SWC	OD
599.0	[m]	SWC	OD
610.0	[m]	SWC	OD
630.0	[m]	SWC	OD
640.0	[m]	SWC	OD
656.0	[m]	SWC	OD
670.0	[m]	SWC	OD
676.0	[m]	SWC	OD
686.0	[m]	SWC	OD
695.0	[m]	SWC	OD
705.0	[m]	SWC	OD
714.0	[m]	SWC	OD
731.0	[m]	SWC	OD
739.0	[m]	SWC	OD
754.0	[m]	SWC	OD
769.0	[m]	SWC	OD
782.0	[m]	SWC	OD
786.0	[m]	SWC	OD
790.0	[m]	SWC	HYDRO
796.0	[m]	SWC	OD
802.0	[m]	SWC	HYDRO
805.0	[m]	SWC	OD
814.0	[m]	SWC	OD
822.0	[m]	SWC	HYDRO
823.0	[m]	SWC	OD
832.0	[m]	SWC	OD
843.0	[m]	SWC	OD
885.0	[m]	SWC	OD
885.0	[m]	SWC	HYDRO
887.0	[m]	DC	OD
890.0	[m]	SWC	HYDRO
890.0	[m]	DC	HYDRO
892.0	[m]	DC	HYDRO



895.0 [m]	DC	OD
896.0 [m]	C	OD
897.4 [m]	C	OD
897.5 [m]	C	HYDRO
899.0 [m]	C	HYDRO
901.4 [m]	C	OD
905.2 [m]	C	OD
906.6 [m]	C	STRAT
910.0 [m]	DC	OD
914.0 [m]	SWC	HYDRO
920.0 [m]	DC	OD
920.0 [m]	SWC	OD
920.0 [m]	SWC	HYDRO
926.0 [m]	SWC	HYDRO
930.0 [m]	DC	OD
930.0 [m]	DC	STRAT
930.0 [m]	DC	HYDRO
940.0 [m]	DC	OD
940.4 [m]	C	OD
945.0 [m]	DC	STRAT
948.0 [m]	SWC	OD
948.0 [m]	SWC	HYDRO
950.0 [m]	DC	OD
955.0 [m]	SWC	OD
955.0 [m]	SWC	HYDRO
955.0 [m]	DC	HYDRO
960.0 [m]	DC	OD
970.0 [m]	DC	OD
970.0 [m]	SWC	OD
970.0 [m]	DC	STRAT
970.0 [m]	SWC	HYDRO
980.0 [m]	DC	OD
980.0 [m]	SWC	OD
980.0 [m]	SWC	HYDRO
980.0 [m]	DC	HYDRO
982.0 [m]	DC	OD
990.0 [m]	DC	OD
990.0 [m]	DC	STRAT
992.0 [m]	DC	OD
1000.0 [m]	DC	OD



1000.0 [m]	DC	STRAT
1010.0 [m]	DC	OD
1010.0 [m]	DC	STRAT
1015.0 [m]	DC	OD
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1017.0 [m]	DC	HYDRO
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1022.0 [m]	SWC	HYDRO
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1025.0 [m]	DC	STRAT
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1040.0 [m]	DC	STRAT
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1050.0 [m]	DC	STRAT
1055.0 [m]	DC	OD
1057.0 [m]	DC	HYDRO
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1064.0 [m]	SWC	HYDRO
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1068.0 [m]	SWC	OD
1070.0 [m]	DC	OD
1070.0 [m]	DC	STRAT
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1080.0 [m]	DC	STRAT
1080.0 [m]	SWC	HYDRO
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1090.0 [m]	DC	STRAT
1090.0 [m]	DC	HYDRO
1090.0 [m]	DC	OD
1095.0 [m]	DC	OD
1102.0 [m]	DC	OD
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1106.0 [m]	SWC	HYDRO
1107.0 [m]	DC	OD
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1120.0 [m]	DC	STRAT
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1140.0 [m]	DC	OD



1145.0 [m]	DC	HYDRO
1152.0 [m]	SWC	HYDRO
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1157.0 [m]	DC	STRAT
1162.0 [m]	DC	OD
1162.0 [m]	DC	STRAT
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1190.0 [m]	DC	STRAT
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1230.0 [m]	DC	STRAT
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1240.0 [m]	DC	OD
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1260.0 [m]	DC	OD
1260.0 [m]	DC	STRAT
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1270.0 [m]	SWC	HYDRO
1280.0 [m]	DC	OD
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1300.0 [m]	DC	OD
1307.0 [m]	DC	OD
1310.0 [m]	DC	HYDRO
1320.0 [m]	DC	OD
1320.0 [m]	DC	HYDRO
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1338.0 [m]	SWC	HYDRO
1340.0 [m]	DC	OD



1346.0 [m]	SWC	HYDRO
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1355.0 [m]	C	STRAT
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1597.0 [m]	DC	OD
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1990.0	[m]	DC	STRAT
1997.0	[m]	DC	OD
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2020.0	[m]	DC	OD
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2050.0	[m]	DC	OD
2070.0	[m]	DC	STRAT
2080.0	[m]	DC	OD
2090.0	[m]	DC	STRAT
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2150.0	[m]	DC	STRAT
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2300.0	[m]	DC	HYDRO
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2390.0	[m]	DC	OD
2390.0	[m]	DC	STRAT
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2400.0	[m]	DC	HYDRO
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2580.0	[m]	DC	OD
2600.0	[m]	DC	OD
2600.0	[m]	DC	HYDRO
2610.0	[m]	DC	OD
2640.0	[m]	DC	OD



2640.0	[m]	DC	STRAT
2660.0	[m]	DC	OD
2660.0	[m]	DC	STRAT
2670.0	[m]	DC	OD
2700.0	[m]	DC	OD
2700.0	[m]	DC	HYDRO
2713.0	[m]	SWC	HYDRO
2720.0	[m]	DC	OD
2740.0	[m]	DC	STRAT
2740.0	[m]	DC	OD
2760.0	[m]	DC	OD
2760.0	[m]	DC	STRAT
2770.0	[m]	DC	OD
2800.0	[m]	DC	OD
2800.0	[m]	SWC	HYDRO
2800.0	[m]	DC	HYDRO
2810.0	[m]	DC	STRAT
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2840.0	[m]	DC	OD
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2860.0	[m]	DC	OD
2860.0	[m]	DC	STRAT
2870.0	[m]	DC	OD
2870.0	[m]	DC	STRAT
2880.0	[m]	DC	STRAT
2890.0	[m]	DC	OD
2890.0	[m]	DC	STRAT
2900.0	[m]	DC	OD
2900.0	[m]	SWC	HYDRO
2910.0	[m]	DC	STRAT
2920.0	[m]	DC	OD
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2930.0	[m]	DC	STRAT
2940.0	[m]	DC	OD
2940.0	[m]	DC	STRAT
2950.0	[m]	DC	STRAT
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2960.0	[m]	DC	STRAT
2970.0	[m]	DC	HYDRO



2974.0 [m]	SWC	HYDRO
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3000.0 [m]	DC	OD
3000.0 [m]	DC	HYDRO
3010.0 [m]	DC	STRAT
3020.0 [m]	DC	OD
3020.0 [m]	DC	STRAT
3030.0 [m]	DC	STRAT
3040.0 [m]	DC	OD
3040.0 [m]	DC	STRAT
3050.0 [m]	DC	STRAT
3053.0 [m]	SWC	HYDRO
3060.0 [m]	DC	OD
3060.0 [m]	DC	STRAT
3080.0 [m]	DC	OD
3100.0 [m]	DC	OD
3100.0 [m]	DC	STRAT
3104.0 [m]	SWC	HYDRO
3110.0 [m]	DC	STRAT
3120.0 [m]	DC	OD
3120.0 [m]	DC	STRAT
3130.0 [m]	SWC	HYDRO
3140.0 [m]	DC	OD
3140.0 [m]	DC	STRAT
3150.0 [m]	DC	STRAT
3160.0 [m]	DC	OD
3160.0 [m]	DC	STRAT
3170.0 [m]	DC	STRAT
3173.0 [m]	SWC	HYDRO
3180.0 [m]	DC	OD
3180.0 [m]	DC	STRAT
3190.0 [m]	DC	STRAT
3200.0 [m]	DC	OD
3200.0 [m]	DC	HYDRO
3210.0 [m]	DC	STRAT
3215.0 [m]	SWC	HYDRO
3220.0 [m]	DC	OD
3226.0 [m]	SWC	HYDRO
3230.0 [m]	DC	STRAT



3240.0 [m]	DC	OD
3240.0 [m]	DC	STRAT
3250.0 [m]	DC	STRAT
3260.0 [m]	DC	OD
3260.0 [m]	DC	STRAT
3270.0 [m]	DC	STRAT
3280.0 [m]	DC	OD
3280.0 [m]	DC	STRAT
3290.0 [m]	DC	STRAT
3290.0 [m]	SWC	HYDRO
3300.0 [m]	DC	OD
3300.0 [m]	DC	STRAT
3310.0 [m]	DC	STRAT
3320.0 [m]	DC	OD
3320.0 [m]	DC	STRAT
3330.0 [m]	DC	STRAT
3340.0 [m]	DC	OD
3340.0 [m]	DC	HYDRO
3345.0 [m]	SWC	HYDRO
3350.0 [m]	DC	STRAT
3360.0 [m]	DC	OD
3360.0 [m]	DC	STRAT
3380.0 [m]	DC	OD
3380.0 [m]	DC	STRAT
3390.0 [m]	DC	STRAT
3400.0 [m]	DC	OD
3400.0 [m]	DC	STRAT
3410.0 [m]	DC	STRAT
3420.0 [m]	DC	OD
3420.0 [m]	DC	STRAT
3420.0 [m]	DC	HYDRO
3430.0 [m]	DC	STRAT
3440.0 [m]	DC	OD
3440.0 [m]	DC	STRAT
3440.0 [m]	DC	HYDRO
3446.0 [m]	SWC	HYDRO
3460.0 [m]	DC	OD
3460.0 [m]	DC	STRAT
3460.0 [m]	DC	HYDRO
3470.0 [m]	DC	STRAT



3471.0 [m]	SWC	HYDRO
3480.0 [m]	DC	OD
3487.0 [m]	DC	HYDRO
3500.0 [m]	DC	OD
3500.0 [m]	DC	STRAT
3510.0 [m]	DC	STRAT
3510.0 [m]	DC	HYDRO
3520.0 [m]	DC	OD
3520.0 [m]	DC	STRAT
3530.0 [m]	DC	STRAT
3540.0 [m]	DC	OD
3540.0 [m]	DC	STRAT
3540.0 [m]	DC	HYDRO
3545.0 [m]	SWC	HYDRO
3558.0 [m]	SWC	HYDRO
3560.0 [m]	DC	OD
3560.0 [m]	DC	STRAT
3580.0 [m]	DC	OD
3590.0 [m]	DC	STRAT
3600.0 [m]	DC	OD
3600.0 [m]	DC	STRAT
3600.0 [m]	DC	HYDRO
3605.0 [m]	DC	HYDRO
3620.0 [m]	DC	OD
3620.0 [m]	DC	STRAT
3620.0 [m]	DC	HYDRO
3640.0 [m]	DC	OD
3640.0 [m]	DC	STRAT
3640.0 [m]	DC	HYDRO
3660.0 [m]	DC	OD
3660.0 [m]	DC	STRAT
3660.0 [m]	DC	HYDRO
3680.0 [m]	DC	OD
3680.0 [m]	DC	STRAT
3680.0 [m]	DC	HYDRO
3700.0 [m]	DC	OD
3700.0 [m]	DC	STRAT
3700.0 [m]	DC	HYDRO
3710.0 [m]	SWC	HYDRO
3720.0 [m]	DC	OD



3720.0 [m]	DC	STRAT
3720.0 [m]	DC	HYDRO
3725.0 [m]	DC	HYDRO
3735.0 [m]	DC	HYDRO
3740.0 [m]	DC	OD
3740.0 [m]	DC	STRAT
3740.0 [m]	DC	HYDRO
3742.0 [m]	SWC	HYDRO
3755.0 [m]	DC	HYDRO
3760.0 [m]	DC	OD
3760.0 [m]	DC	STRAT
3760.0 [m]	DC	HYDRO
3770.0 [m]	DC	STRAT
3770.0 [m]	DC	HYDRO
3780.0 [m]	DC	OD
3780.0 [m]	DC	STRAT
3780.0 [m]	SWC	HYDRO
3780.0 [m]	DC	HYDRO
3790.0 [m]	DC	STRAT
3790.0 [m]	SWC	HYDRO
3790.0 [m]	DC	HYDRO
3800.0 [m]	DC	OD
3800.0 [m]	DC	STRAT
3800.0 [m]	DC	HYDRO
3810.0 [m]	DC	STRAT
3810.0 [m]	DC	HYDRO
3820.0 [m]	DC	OD
3820.0 [m]	DC	STRAT
3830.0 [m]	DC	STRAT
3840.0 [m]	DC	OD
3840.0 [m]	DC	STRAT
3850.0 [m]	DC	STRAT
3860.0 [m]	DC	OD
3860.0 [m]	DC	STRAT
3873.0 [m]	DC	HYDRO
3880.0 [m]	DC	OD
3880.0 [m]	DC	STRAT
3880.0 [m]	SWC	HYDRO
3880.0 [m]	DC	HYDRO
3890.0 [m]	DC	STRAT



3890.0	[m]	DC	HYDRO
3900.0	[m]	DC	OD
3900.0	[m]	DC	STRAT
3900.0	[m]	DC	HYDRO
3920.0	[m]	DC	OD
3940.0	[m]	DC	OD
3960.0	[m]	DC	OD
3980.0	[m]	DC	OD
3980.0	[m]	DC	STRAT
3980.0	[m]	DC	HYDRO
3990.0	[m]	DC	STRAT
3990.0	[m]	DC	HYDRO
4000.0	[m]	DC	OD
4000.0	[m]	DC	STRAT
4000.0	[m]	DC	HYDRO
4010.0	[m]	DC	STRAT
4010.0	[m]	DC	HYDRO
4020.0	[m]	DC	OD
4025.0	[m]	SWC	HYDRO
4027.0	[m]	DC	OD
4027.0	[m]	DC	HYDRO
4027.0	[m]	DC	HYDRO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
473	NORDLAND GP
945	SOTBAKKEN GP
945	TORSK FM
3752	NYGRUNNEN GP
3752	KVEITE FM

Composite logs

Document name	Document format	Document size [MB]
1987	pdf	0.69





Geochemical information

Document name	Document format	Document size [MB]
1987_1	pdf	2.49
1987_2	pdf	3.28

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

Document name	Document format	Document size [MB]
1987_01 WDSS General Information	pdf	0.59
1987_02 WDSS completion log	pdf	0.21

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

Document name	Document format	Document size [MB]
1987_7316_5_1 COMPLETION REPORT AND LOG	pdf	20.96

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	1338	1350	25.4

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

Test number	Oil [Sm ³ /day]	Gas [Sm ³ /day]	Oil density [g/cm ³]	Gas grav. rel.air	GOR [m ³ /m ³]
1.0		563000	0.600		

Logs





Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL	830	1500
CST GR	467	843
CST GR	562	842
CST GR	885	2900
CST GR	948	2908
CST GR	2974	3290
CST GR	2974	3448
CST GR	3453	4025
DIL LSS GR	876	2933
DIL LSS LDL CNL GR SP AMS	562	638
DIL LSS LDL CNL GR SP AMS	569	873
DLL MSFL LDL CNL NGL AMS	876	1769
DLL MSFL LSS LDL CNL GR SP	2957	4029
FMS4 GR	876	2922
FMS4 GR	2957	4029
LDL CNL NGS	1725	2915
MWD - DPR GR DIR	561	613
MWD - GR RES DIR	473	4027
RFT HP GR	1340	1377
VSP	520	2960
VSP	1900	4020

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	559.0	36	560.0	0.00	LOT
INTERM.	18 3/8	569.0	24	569.0	0.00	LOT
LINER	16	877.0	24	878.0	1.66	LOT
INTERM.	9 5/8	2956.0	12 1/4	2973.0	1.60	LOT
OPEN HOLE		4027.0	8 1/2	4027.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
476	1.08	8.0		WATER BASED	



506	1.24	13.0		WATER BASED	
517	1.20	10.0		WATER BASED	
555	1.24			WATER BASED	
560	1.08	15.5		WATER BASED	
561	1.20	14.0		WATER BASED	
569	1.06	13.0		WATER BASED	
574	1.39	14.0		WATER BASED	
610	1.40	14.0		WATER BASED	
613	1.40	16.0		WATER BASED	
636	1.08	11.0		WATER BASED	
722	1.40	14.0		WATER BASED	
811	1.40	14.0		WATER BASED	
875	1.07	5.0		WATER BASED	
903	1.30	11.0		WATER BASED	
906	1.50	14.0		WATER BASED	
907	1.22	22.0		WATER BASED	
921	1.22	22.0		WATER BASED	
1025	1.22	21.0		WATER BASED	
1174	1.22	22.0		WATER BASED	
1231	1.24	13.0		WATER BASED	
1310	1.24	13.0		WATER BASED	
1347	1.22	22.0		WATER BASED	
1370	1.24	12.0		WATER BASED	
2207	1.22	19.0		WATER BASED	
2753	1.22	17.0		WATER BASED	
2988	1.25	18.0		WATER BASED	
3063	1.25	12.0		WATER BASED	
3178	1.25	12.0		WATER BASED	
3242	1.25	14.0		WATER BASED	
3381	1.25	14.0		WATER BASED	
3406	1.25	14.0		WATER BASED	
3478	1.25	14.0		WATER BASED	
3548	1.25	17.0		WATER BASED	
3651	1.25	14.0		WATER BASED	
3729	1.25	15.0		WATER BASED	
3784	1.25	14.0		WATER BASED	
3969	1.25	14.0		WATER BASED	
4006	1.25	14.0		WATER BASED	
4027	1.25	15.0		WATER BASED	

**Thin sections at the Norwegian Offshore Directorate**

Depth	Unit
899.85	[m]
903.40	[m]
905.90	[m]
1350.35	[m]
1365.55	[m]
1368.70	[m]
1461.35	[m]
1464.63	[m]
1465.63	[m]
1469.90	[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]
1987_Formation_pressure_(Formasjonstrykk)	pdf	0.27

