



General information

Wellbore name	34/8-4 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	VISUND
Discovery	34/8-4 S
Well name	34/8-4
Seismic location	NH 8404-171/1171& SP. 10656
Production licence	120
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	659-L
Drilling facility	MÆRSK JUTLANDER
Drilling days	186
Entered date	06.12.1990
Completed date	09.06.1991
Release date	09.06.1993
Publication date	22.04.2005
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS/CONDENSATE
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	RANNOCH FM
2nd level with HC, age	LATE TRIASSIC
2nd level with HC, formation	LUNDE FM
Kelly bushing elevation [m]	23.0
Water depth [m]	309.0
Total depth (MD) [m RKB]	4150.0
Final vertical depth (TVD) [m RKB]	3802.0
Maximum inclination [°]	56.3
Bottom hole temperature [°C]	137
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	TEIST FM (INFORMAL)
Geodetic datum	ED50
NS degrees	61° 19' 29.58" N
EW degrees	2° 25' 18.67" E



NS UTM [m]	6799274.11
EW UTM [m]	469049.02
UTM zone	31
NPDID wellbore	1683

Wellbore history

General

Well 34/8-4 S is located on the Visund Field, A structure where previous wells 3/8-1, 3/8-3, and 3/8-3 A had proved hydrocarbons in the Brent Group. The main target in 34/8-4 S was the hydrocarbon potential in the Lomvi Formation on the A-structure. Secondary targets were the hydrocarbon potentials of the Statfjord and Lunde B/C formations on the A south compartment. Pressure measurement should be acquired from the Lunde- and Lomvi Formations in order to evaluate the sealing potential of the Middle to Late Triassic sequence. The well was designed for temporary abandonment and re-entry as a subsea producer. The well was planned as a deviated hole to penetrate top Statfjord, Lunde B/C and the Lomvi Formations within structural closure, leaving more than 10 mill Sm³ oil untested up-dip. Boulders could be encountered between 350 m and 395 m. Two intervals with possibility for shallow gas were identified at 446 m and 477 m.

Operations and results

Wildcat well 34/8-4 S was spudded with the semi-submersible installation Maersk Jutlander on 6 Desember 1991 and drilled to TD at 4150 m in rocks of Triassic age. Drilling started with an 8 1/2" pilot hole checking for shallow gas. No boulders or shallow gas was encountered. Significant technical problems were encountered during drilling of this well and one third of the total rig time was counted as down time. The longest period of down time occurred after TD in the 17 1/2" hole where 31.6 days were spent repairing the BOP and wellhead. The planned TD at 4478 m was not reached due to operational problems. The pipe was backed off at 3936 m and the borehole was logged from this depth and up to the 9 5/8" casing shoe. The well was drilled vertical down to ca 2310 m where it started to build angle up to 30 ° at ca 2680 m. From here to TD the deviation varied between 30 ° and 50 °. The well was drilled with spud mud and seawater down to 1165 m, with KCl / polymer mud from 1165 m to 3781 m, and with a dispersed high-temperature tolerant mud system from 3781 m to TD.

Hydrocarbons were encountered in the Brent Group, Rannoch sandstones, and in thickly developed Triassic sandstones of the Hegre Group's Lunde Formation. No fluid contacts were observed in either Groups. The Lomvi Formation proved to be water bearing. Oil shows on sandstones started at Top Brent Group, 2903 m, and ended at 3697 m in Late Triassic, Lunde Formation. One of the secondary targets, the Statfjord Formation, was not encountered in the well. A total of seventeen cores were cut: sixteen in the Lunde Formation and one in the Lomvi Formation. RFT formation pressures were obtained in five runs, three of which were cased hole RFT runs. A gas gradient was defined from pressures obtained in the Brent Group and a common hydrocarbon gradient of 0.045 bar/m (0.46 g/cc) could be inferred throughout the Lunde Formation. A total of 60 sidewall cores were requested in two runs and 37 were recovered. The well was suspended on 9 June 1992 a gas and condensate discovery in the Lunde Formation.

Testing

Five production tests were performed, four gas/condensate tests in the Lunde Formation and one gas test in the Rannoch Formation. Production test data quoted refer to maximum rates at the specified choke sizes.

Test 1 was performed in the interval 3219.0 - 3241.0 in Lunde D. It flowed at a



condensate rate of 441 Sm³/d and a gas rate of 410280 Sm³/d on a 15.87 mm choke. The GOR was 930 Sm³/Sm³. The condensate gravity was 0.782 g/cc and the gas gravity was 0.728 (air = 1). The test produced 2.0 % CO₂ and no H₂S.

Test 2 was aborted due to tool failure shortly after running the test string.

Test 2A was performed in the interval 3133.0 - 3143.0 m in Lunde B/C. It flowed at a condensate rate of 754 Sm³/d and a gas rate of 605090 Sm³/d on a 17.46 mm choke. The GOR was 803 Sm³/Sm³. The condensate gravity was 0.788 g/cc and the gas gravity 0.734 (air = 1). The test produced 0.7 % CO₂ and no H₂S.

With the test string still in position after Test 2A, Test 2B1 was initiated by perforating three additional intervals. However, it was aborted due to problems with the subsea test tree and lubricator valves.

Test 2B2 perforated the four intervals 3132.5 - 3142.5 m, 3112.5 - 3127.5 m, 3094.5 - 3104.5 m, and 3066.5 - 3082.0 m in Lunde B/C. It flowed at a condensate rate of 985 Sm³/d and a gas rate of 792950 Sm³/d on a 20.63 mm choke. The GOR was 805 Sm³/Sm³. The condensate gravity was 0.785 g/cc and the gas gravity 0.739 (air = 1). The test produced 0.5 % CO₂ and no H₂S.

Test 3 perforated the interval 3000.7 - 3017.7 m. It flowed at a condensate rate of 908 Sm³/d and a gas rate of 708500 Sm³/d on a 21.43 mm choke. The GOR was 781 Sm³/Sm³. The condensate gravity was 0.777 g/cc and the gas gravity 0.738 (air-1). The test produced 0.1 % CO₂ and no H₂S.

Test 4 perforated the interval 2903.4 - 2917.4 m, top section of the Rannoch Formation. It flowed at a condensate rate of 205 Sm³/d and a gas rate of 480000 Sm³/d on a 25.40 mm choke. The GOR was 2418 Sm³/Sm³. The condensate gravity was 0.770 g/cc and the gas gravity 0.690 (air = 1). The test produced 1.0% CO₂ and 0.6 ppm H₂ S.

Note that for this well the "bottle depths" quoted for the oil samples available from the NPD are in m TVD MSL.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1170.00	4150.00

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	3005.0	3019.7	[m]
2	3067.0	3084.6	[m]
3	3096.0	3122.8	[m]
4	3123.5	3142.6	[m]
5	3176.0	3188.8	[m]
6	3190.0	3207.6	[m]



7	3208.0	3235.7	[m]
8	3255.0	3272.4	[m]
9	3276.0	3285.0	[m]
10	3292.0	3317.7	[m]
11	3319.0	3332.4	[m]
12	3333.0	3358.5	[m]
13	3385.0	3412.0	[m]
14	3412.0	3438.8	[m]
15	3439.0	3465.5	[m]
16	3466.0	3485.5	[m]
17	4044.0	4071.5	[m]

Total core sample length [m]	354.6
Cores available for sampling?	YES

Core photos



3005-3010m



3010-3015m



3015-3019m



3067-3072m



3072-3077m



3077-3082m



3082-3084m



3096-3101m



3101-3106m



3106-3111m



3111-3116m



3116-3121m



3121-3122m



3123-3128m



3128-3133m



3133-3138m



3138-3142m



3176-3181m



3181-3186m



3186-3188m



3190-3195m



3195-3200m



3200-3205m



3205-3207m



3208-3213m



3213-3218m



3218-3223m



3223-3228m



3228-3233m



3233-3235m



3255-3260m



3260-3265m



3265-3270m



3270-3272m



3276-3281m



3281-3285m



3292-3297m



3297-3302m



3302-3307m



3307-3312m



3312-3317m



3317-3318m



3319-3324m



3324-3329m



3329-3332m



3333-3338m



3338-3343m



3343-3348m



3348-3353m



3353-3358m



3358-3359m



3385-3390m



3390-3395m



3395-3400m



3400-3405m



3405-3410m



3410-3412m



3412-3417m



3417-3422m



3422-3427m



3427-3432m



3432-3437m



3437-3438m



3439-3444m



3444-3449m



3449-3454m



3454-3459m



3459-3464m



3464-3465m



3464-3471m



3471-3476m



3476-3481m



3481-3485m



4044-4049m



4049-4054m



4054-4059m



4059-4064m



4064-4069m



4069-4071m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
2253.5	[m]	SWC	HYDRO
2269.0	[m]	SWC	HYDRO
2305.0	[m]	SWC	HYDRO
2441.5	[m]	SWC	HYDRO
2473.0	[m]	SWC	HYDRO
2581.0	[m]	SWC	HYDRO
2633.5	[m]	SWC	HYDRO
2650.0	[m]	SWC	HYDRO
2734.5	[m]	SWC	HYDRO
2742.5	[m]	SWC	HYDRO
2781.0	[m]	SWC	HYDRO
2797.0	[m]	SWC	HYDRO
3081.0	[m]	SWC	HYDRO
3102.2	[m]	C	HYDRO
3106.1	[m]	C	HYDRO
3110.2	[m]	C	HYDRO
3124.9	[m]	C	HYDRO
3126.5	[m]	C	HYDRO
3128.3	[m]	C	HYDRO
3138.9	[m]	C	HYDRO
3182.7	[m]	C	HYDRO
3183.7	[m]	C	HYDRO
3195.7	[m]	C	HYDRO
3257.9	[m]	C	HYDRO
3272.2	[m]	C	HYDRO
3295.0	[m]	C	HYDRO
3304.5	[m]	C	HYDRO
3337.8	[m]	C	HYDRO
3346.9	[m]	C	HYDRO



3353.8	[m]	C	HYDRO
3353.9	[m]	C	HYDRO
3396.9	[m]	C	HYDRO
3403.2	[m]	C	HYDRO
3414.8	[m]	C	HYDRO
3424.1	[m]	C	HYDRO
3440.2	[m]	C	HYDRO
3450.0	[m]	C	HYDRO
3460.1	[m]	C	HYDRO
3470.6	[m]	C	HYDRO
3481.2	[m]	C	HYDRO
3482.4	[m]	C	HYDRO
3484.3	[m]	C	HYDRO
3701.0	[m]	SWC	HYDRO
3715.5	[m]	SWC	HYDRO
3750.5	[m]	SWC	HYDRO
3759.0	[m]	SWC	HYDRO
3782.0	[m]	SWC	HYDRO
3797.5	[m]	SWC	HYDRO
3805.2	[m]	SWC	HYDRO
3819.5	[m]	SWC	HYDRO
3829.2	[m]	SWC	HYDRO
3852.0	[m]	SWC	HYDRO
3865.2	[m]	SWC	HYDRO
3882.0	[m]	SWC	HYDRO
3890.0	[m]	SWC	HYDRO
3908.0	[m]	SWC	HYDRO
3911.3	[m]	SWC	HYDRO
3931.7	[m]	SWC	HYDRO

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	TEST1	3062.10	3079.70		13.04.1991 - 10:50	YES
DST	TEST2A	2994.40	3002.20		27.04.1991 - 00:00	YES
DST	TEST2B	2943.20	3002.20		13.05.1991 - 00:00	YES



DST	DST4	0.00	0.00		01.06.1991 - 00:00	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
332	NORDLAND GP
1071	UTSIRA FM
1108	HORDALAND GP
1819	ROGALAND GP
1819	BALDER FM
1862	SELE FM
1875	LISTA FM
2030	SHETLAND GP
2899	CROMER KNOLL GP
2902	VIKING GP
2902	DRAUPNE FM
2903	BRENT GP
2903	RANNOCH FM
2922	BROOM FM
2924	DUNLIN GP
2924	DRAKE FM
2938	AMUNDSEN FM
2950	HEGRE GP
2950	LUNDE FM
3947	LOMVI FM

Composite logs

Document name	Document format	Document size [MB]
1683	pdf	0.66

Geochemical information

Document name	Document format	Document size [MB]
1683_1	pdf	1.16



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

Document name	Document format	Document size [MB]
1683_01_WDSS_General_Information	pdf	1.18
1683_02_WDSS_completion_log	pdf	0.24

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

Document name	Document format	Document size [MB]
1683_34_8_4_S_COMPLETION_REPORT_AND_LOG	pdf	27.73

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	3219	3241	15.8
2.1	3133	3143	17.4
2.2	3066	3142	20.6
3.0	3000	3017	21.4
4.0	2903	2917	25.4

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0	17.000			113
2.1	25.000			114
2.2	23.000			112
3.0	20.000			110
4.0	6.000			

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0	441	410130	0.782	0.728	930
2.1	754	605000	0.788	0.734	803
2.2	985	792000	0.785	0.739	805





3.0	908	708000	0.777	0.738	781
4.0	205	480000	0.770	0.690	2418

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST-C GR	2181	2797
CST-C GR	3668	3931
DIL LSS GR SP AMS	2164	3584
DIL LSS GR SP AMS	3659	3925
DIL LSS LDL CNL GR SP AMS	1149	2163
DLL MSFL GR CAL	2164	3667
DLL MSFL LDL CNL GR SP AMS	2850	3226
FMS4 GR CAL	2164	3669
FMS4 GR CAL AMS	3659	3925
LDL CNL NGL AMS	2164	3560
LDL CNL NGL CAL AMS	3659	3929
MWD - GR RES DIR	332	4120
RFT HP GR	3693	3897
RFT-B HP GR AMS	2907	3231
VSP	420	2140
VSP	500	2800
VSP	500	3864

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	417.0	36	421.0	0.00	LOT
INTERM.	18 5/8	1146.0	24	1451.0	1.58	LOT
INTERM.	13 3/8	2161.0	17 1/2	2800.0	1.78	LOT
INTERM.	9 5/8	3662.0	12 1/4	3673.0	2.07	LOT
OPEN HOLE		4150.0	8 1/2	4150.0	0.00	LOT

Drilling mud



Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
420	1.05	1.0	1.0	WATER BASED	10.12.1990
500	1.00	1.0	1.0	WATER BASED	10.06.1991
500	1.00	1.0	1.0	WATER BASED	10.06.1991
1165	1.20	1.0	1.0	WATER BASED	18.12.1990
1165	1.25	1.0	1.0	WATER BASED	13.12.1990
1165	1.25	1.0	1.0	WATER BASED	13.12.1990
1165	1.05	1.0	1.0	WATER BASED	14.12.1990
1165	1.20	1.0	1.0	WATER BASED	18.12.1990
1165	1.20	1.0	1.0	WATER BASED	18.12.1990
1165	1.20	10.0	3.0	WATER BASED	18.12.1990
1186	1.20	14.0	5.0	WATER BASED	19.12.1990
1488	1.20	14.0	5.0	WATER BASED	21.12.1990
1846	1.40	29.0	8.0	WATER BASED	27.12.1990
2117	1.38	27.0	9.0	WATER BASED	27.12.1990
2177	1.40	25.0	13.0	WATER BASED	27.12.1990
2177	1.40	25.0	13.0	WATER BASED	27.12.1990
2177	1.40	25.0	13.0	WATER BASED	28.12.1990
2177	1.40	25.0	13.0	WATER BASED	03.01.1991
2177	1.40	29.0	8.0	WATER BASED	03.01.1991
2177	1.40	29.0	9.0	WATER BASED	03.01.1991
2177	1.40	29.0	9.0	WATER BASED	03.01.1991
2177	1.40	29.0	9.0	WATER BASED	03.01.1991
2177	1.40	21.0	7.0	WATER BASED	07.01.1991
2177	1.40	21.0	7.0	WATER BASED	08.01.1991
2177	1.40	21.0	7.0	WATER BASED	09.01.1991
2177	1.40	21.0	7.0	WATER BASED	11.01.1991
2177	1.40	21.0	7.0	WATER BASED	14.01.1991
2177	1.40	21.0	7.0	WATER BASED	15.01.1991
2177	1.40	21.0	7.0	WATER BASED	16.01.1991
2177	1.40	21.0	11.0	WATER BASED	17.01.1991
2177	1.40	21.0	11.0	WATER BASED	18.01.1991
2177	1.40	20.0	12.0	WATER BASED	21.01.1991
2177	1.40	20.0	12.0	WATER BASED	21.01.1991
2177	1.40	25.0	13.0	WATER BASED	27.12.1990
2177	1.40	25.0	13.0	WATER BASED	03.01.1991
2177	1.40	29.0	9.0	WATER BASED	07.01.1991
2177	1.40	21.0	7.0	WATER BASED	14.01.1991



2180	1.40	23.0	12.0	WATER BASED	23.01.1991
2204	1.40	21.0	11.0	WATER BASED	25.01.1991
2300	1.45	24.0	12.0	WATER BASED	25.01.1991
2331	1.45	23.0	12.0	WATER BASED	29.01.1991
2518	1.50	24.0	13.0	WATER BASED	29.01.1991
2656	1.55	28.0	12.0	WATER BASED	29.01.1991
2767	1.60	34.0	13.0	WATER BASED	30.01.1991
2819	1.65	33.0	13.0	WATER BASED	30.01.1991
2835	1.70	32.0	20.0	WATER BASED	07.06.1991
2859	1.65	31.0	12.0	WATER BASED	31.01.1991
2899	1.65	39.0	12.0	WATER BASED	01.02.1991
2927	1.65	34.0	12.0	WATER BASED	05.02.1991
2945	1.70	30.0	17.0	WATER BASED	31.05.1991
2945	1.70	30.0	17.0	WATER BASED	04.06.1991
2945	1.70	30.0	17.0	WATER BASED	05.06.1991
2945	1.70	29.0	13.0	WATER BASED	06.06.1991
2945	1.70	30.0	17.0	WATER BASED	04.06.1991
3005	1.65	34.0	13.0	WATER BASED	05.02.1991
3021	1.65	34.0	12.0	WATER BASED	05.02.1991
3050	1.70	28.0	15.0	WATER BASED	21.05.1991
3050	1.73	31.0	18.0	WATER BASED	21.05.1991
3050	1.73	29.0	19.0	WATER BASED	21.05.1991
3050	1.73	32.0	19.0	WATER BASED	22.05.1991
3050	1.73	31.0	18.0	WATER BASED	23.05.1991
3050	1.73	31.0	18.0	WATER BASED	24.05.1991
3050	1.73	31.0	18.0	WATER BASED	28.05.1991
3050	1.73	31.0	18.0	WATER BASED	28.05.1991
3050	1.70	30.0	17.0	WATER BASED	30.05.1991
3050	1.73	30.0	17.0	WATER BASED	29.05.1991
3057	1.70	27.0	12.0	WATER BASED	21.05.1991
3067	1.65	33.0	11.0	WATER BASED	05.02.1991
3085	1.65	34.0	15.0	WATER BASED	06.02.1991
3105	1.65	30.0	11.0	WATER BASED	07.02.1991
3124	1.65	30.0	9.0	WATER BASED	08.02.1991
3124	1.65	30.0	9.0	WATER BASED	08.02.1991
3134	1.70	29.0	12.0	WATER BASED	25.04.1991
3134	1.70	24.0	9.0	WATER BASED	23.04.1991
3144	1.65	40.0	15.0	WATER BASED	12.02.1991
3150	1.70	21.0	7.0	WATER BASED	08.04.1991
3160	1.70	28.0	10.0	WATER BASED	08.05.1991



3160	1.70	28.0	10.0	WATER BASED	10.05.1991
3160	1.70	27.0	17.0	WATER BASED	14.05.1991
3160	1.70	30.0	13.0	WATER BASED	21.05.1991
3160	1.70	30.0	9.0	WATER BASED	25.04.1991
3160	1.70	30.0	9.0	WATER BASED	26.04.1991
3160	1.70	30.0	9.0	WATER BASED	30.04.1991
3160	1.70	30.0	9.0	WATER BASED	30.04.1991
3160	1.70	30.0	9.0	WATER BASED	30.04.1991
3160	1.70	30.0	9.0	WATER BASED	02.05.1991
3160	1.70	30.0	12.0	WATER BASED	03.05.1991
3160	1.70	30.0	12.0	WATER BASED	06.05.1991
3160	1.70	30.0	12.0	WATER BASED	06.05.1991
3160	1.70	28.0	10.0	WATER BASED	07.05.1991
3160	1.70	29.0	14.0	WATER BASED	10.05.1991
3160	1.70	29.0	14.0	WATER BASED	14.05.1991
3160	1.70	29.0	14.0	WATER BASED	14.05.1991
3160	1.70	27.0	17.0	WATER BASED	14.05.1991
3160	1.70	27.0	17.0	WATER BASED	15.05.1991
3160	1.70	27.0	17.0	WATER BASED	16.05.1991
3173	1.65	40.0	14.0	WATER BASED	12.02.1991
3184	1.71	24.0	6.0	WATER BASED	22.04.1991
3184	1.70	25.0	8.0	WATER BASED	22.04.1991
3187	1.65	39.0	12.0	WATER BASED	12.02.1991
3208	1.65	40.0	12.0	WATER BASED	12.02.1991
3233	1.65	42.0	13.0	WATER BASED	13.02.1991
3236	1.65	38.0	13.0	WATER BASED	14.02.1991
3255	1.70	21.0	6.0	WATER BASED	08.04.1991
3255	1.70	20.0	5.0	WATER BASED	09.04.1991
3255	1.70	20.0	6.0	WATER BASED	11.04.1991
3255	1.70	20.0	6.0	WATER BASED	12.04.1991
3255	1.70	20.0	6.0	WATER BASED	17.04.1991
3255	1.70	20.0	6.0	WATER BASED	17.04.1991
3255	1.70	20.0	6.0	WATER BASED	17.04.1991
3255	1.70	20.0	5.0	WATER BASED	19.04.1991
3255	1.71	24.0	6.0	WATER BASED	22.04.1991
3255	1.70	20.0	6.0	WATER BASED	17.04.1991
3255	1.70	20.0	5.0	WATER BASED	18.04.1991
3256	1.65	34.0	12.0	WATER BASED	15.02.1991
3256	1.65	34.0	12.0	WATER BASED	19.02.1991
3258	1.70	20.0	6.0	WATER BASED	08.04.1991



3276	1.65	40.0	14.0	WATER BASED	19.02.1991
3279	1.65	42.0	12.0	WATER BASED	19.02.1991
3286	1.65	36.0	13.0	WATER BASED	19.02.1991
3292	1.65	39.0	14.0	WATER BASED	19.02.1991
3319	1.65	37.0	14.0	WATER BASED	20.02.1991
3333	1.65	40.0	13.0	WATER BASED	21.02.1991
3358	1.65	39.0	12.0	WATER BASED	22.02.1991
3380	1.65	39.0	12.0	WATER BASED	26.02.1991
3386	1.65	38.0	11.0	WATER BASED	26.02.1991
3412	1.65	38.0	12.0	WATER BASED	26.02.1991
3439	1.64	38.0	11.0	WATER BASED	26.02.1991
3466	1.65	41.0	12.0	WATER BASED	27.02.1991
3474	1.65	40.0	12.0	WATER BASED	28.02.1991
3486	1.65	40.0	12.0	WATER BASED	01.03.1991
3518	1.65	37.0	12.0	WATER BASED	05.03.1991
3560	1.59	20.0	7.0	WATER BASED	05.04.1991
3560	1.70	21.0	7.0	WATER BASED	05.04.1991
3561	1.65	35.0	11.0	WATER BASED	05.03.1991
3615	1.65	34.0	12.0	WATER BASED	05.03.1991
3671	1.65	36.0	10.0	WATER BASED	06.03.1991
3671	1.65	46.0	11.0	WATER BASED	05.03.1991
3671	1.65	40.0	7.0	WATER BASED	07.03.1991
3671	1.65	41.0	10.0	WATER BASED	08.03.1991
3671	1.65	40.0	9.0	WATER BASED	11.03.1991
3671	1.68	52.0	11.0	WATER BASED	11.03.1991
3671	1.68	34.0	19.0	WATER BASED	11.03.1991
3673	1.68	37.0	7.0	WATER BASED	15.03.1991
3673	1.68	37.0	7.0	WATER BASED	15.03.1991
3673	1.68	45.0	11.0	WATER BASED	12.03.1991
3673	1.68	40.0	9.0	WATER BASED	13.03.1991
3673	1.68	42.0	11.0	WATER BASED	14.03.1991
3673	1.60	26.0	7.0	WATER BASED	18.03.1991
3746	1.60	31.0	9.0	WATER BASED	18.03.1991
3781	1.60	30.0	7.0	WATER BASED	18.03.1991
3874	1.60	38.0	6.0	WATER BASED	20.03.1991
3917	1.60	27.0	7.0	WATER BASED	20.03.1991
4027	1.60	24.0	6.0	WATER BASED	21.03.1991
4043	1.60	24.0	7.0	WATER BASED	22.03.1991
4071	1.60	22.0	7.0	WATER BASED	26.03.1991
4114	1.60	23.0	7.0	WATER BASED	26.03.1991



4122	1.60	26.0	8.0	WATER BASED	26.03.1991
4149	1.60	23.0	7.0	WATER BASED	26.03.1991
4150	1.59	20.0	7.0	WATER BASED	27.03.1991

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.

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