

**General information**

Wellbore name	30/9-13 S
Type	EXPLORATION
Purpose	WILDCAT
Status	SUSPENDED
Factmaps in new window	link to map
Main area	NORTH SEA
Field	OSEBERG SØR
Discovery	30/9-13 S Oseberg Sør
Well name	30/9-13
Seismic location	NH 8502-ROW 267 & COLUMN 592
Production licence	104
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	688-L
Drilling facility	VILDKAT EXPLORER
Drilling days	99
Entered date	05.07.1991
Completed date	11.10.1991
Release date	11.10.1993
Publication date	29.06.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS
Discovery wellbore	YES
1st level with HC, age	MIDDLE 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]	25.0
Water depth [m]	106.0
Total depth (MD) [m RKB]	4027.0
Final vertical depth (TVD) [m RKB]	3964.0
Maximum inclination [°]	31.2
Bottom hole temperature [°C]	140
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	60° 21' 37.69" N
EW degrees	2° 43' 17.78" E



NS UTM [m]	6691746.63
EW UTM [m]	484640.30
UTM zone	31
NPDID wellbore	1811

Wellbore history

**General**

The primary objective of the 30/9-13 S well was to prove hydrocarbon potential in the Tarbert Formation in the G-East prospect, south west of the Oseberg Field. The well should define fluid contacts in the prospect and test the sealing capacity of the eastern fault. The location was chosen to drill through untruncated Tarbert Formation, and it should leave a minimum of untested reserves up dip in order to establish the fluid contacts in the lower part of the Tarbert Formation.

As secondary objectives the well should test the resource potential within the Ness, Oseberg, Rannoch, Etive, Cook and Statfjord Formations. The well was planned deviated due to a very high amplitude reflection, resulting in a shallow gas

warning for a sand layer at 496 ± 10 m.

Operations and results

Wildcat well 30/9-13 S was spudded with the semi-submersible installation Vildkat Explorer on 5 May 1991 and drilled to a total depth of 4027 m in Early Jurassic Statfjord Formation sandstone. The well was drilled with seawater and hi-vis pills down to 1030 m, with KCl/polymer mud from 1030 m to 3031 m, and with Thermadrill/KCl/polymer mud from 3031 m to TD. The well was drilled vertical to the 13 3/8" casing shoe and was kicked off from there using a steerable motor. A maximum inclination of 31° was obtained at 1434 m. At 1483 m the steerable system was pulled and a drop assembly was run in hole to continue drilling. Intra Heather Formation Sandstone was encountered at 2959 m in the 12 1/4" hole before the planned 9 5/8" casing point had been reached. The well was plugged back and casing was set above the hydrocarbon-bearing interval. On drilling out of the casing the well was sidetracked down to the top of the Heather Formation at 2963 m. The greater part of the Heather Formation proved to be sand with a total net gas column of 28.5 m. A total oil reservoir zone of 77 m with a 60 m net pay zone was identified. A Free Oil Level (FOL) was encountered in the Heather Formation and an Oil Water Contact (OWC) was interpreted from logs at 3101 m in the Tarbert

Formation. The Statfjord Formation consisted of water bearing moderately over pressured sandstones of low permeability. A total of 11 conventional cores were cut continuously from 2957 m through the Heather GOC and the Tarbert OWC down to 3154 m at the base of the Tarbert Formation. Wire line RFT fluid samples were taken at 3097.1 m in the Tarbert Formation (gas/water/mud filtrate), at 3025.6 m in base Heather Formation (gas/water/mud filtrate/trace of oil), at 3997.1 m in the Statfjord Formation (gas/water/mud filtrate), and at 4012.8 m in the Statfjord Formation (water and mud filtrate without any gas or oil). A total of 60 sidewall cores were attempted and 35 were recovered. The well was suspended as an oil and gas discovery on 11 October 1991.

Testing

Tree DST tests were performed. Test 1 was performed in the interval 3086.5 m to 3094.5 m in middle Tarbert yielding a maximum flow rate of 792 Sm³/d oil and 120983 Sm³/d gas through a 19.05 mm choke. Test 2 was performed in the interval 3023.9 m to 3072.9 m in the upper Tarbert yielding a maximum flow rate of 535 Sm³/d oil and 107458 Sm³/d gas through a 19.05 mm choke. Test 3 was performed in the interval 2958.1 m to 2986.1 m in Intra Heather Sandstone and yielded 90 Sm³/d oil and 459552 Sm³/d gas through a 28.575 mm choke.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1030.00	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	2957.0	2975.0	[m]
2	2975.0	2985.0	[m]
3	2985.0	3018.0	[m]
4	3018.0	3040.7	[m]
5	3041.0	3066.7	[m]
6	3067.0	3086.0	[m]
7	3086.0	3093.6	[m]
8	3095.0	3122.0	[m]
9	3122.0	3150.4	[m]
10	3150.2	3178.0	[m]
11	3179.0	3188.0	[m]

Total core sample length [m]	228.2
Cores available for sampling?	YES

Core photos



2957-2962m



2962-2967m



2967-2972m



2972-2977m



2977-2982m



2982-2984m



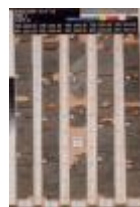
2985-2990m



2990-2995m



2995-3000m



3000-3005m



3005-3010m



3010-3014m



3014-3019m



3019-3024m



3024-3029m



3029-3034m



3034-3039m



3039-3044m



3044-3049m



3049-3054m



3054-3059m



3059-3064m



3064-3069m



3069-3074m



3074-3079m



3079-3084m



3084-3089m



3089-3093m



3099-3100m



3100-3105m



3105-3110m



3110-3115m



3115-3120m



3120-3125m



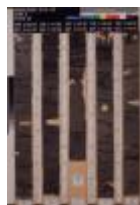
3125-3130m



3130-3135m



3135-3140m



3140-3145m



3145-3150m



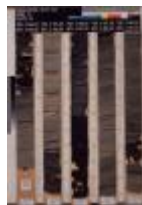
3150-3154m



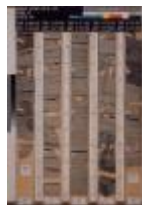
3154-3159m



3159-3164m



3164-3169m



3169-3174m



3174-3178m



3179-3184m



3184-3188m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
2120.0	[m]	DC	RRI
2150.0	[m]	DC	RRI
2180.0	[m]	DC	RRI
2210.0	[m]	DC	RRI
2240.0	[m]	DC	RRI
2270.0	[m]	DC	RRI
2300.0	[m]	DC	RRI
2340.0	[m]	DC	RRI
2410.0	[m]	DC	RRI
2480.0	[m]	DC	RRI
2487.0	[m]	SWC	HYDRO
2510.0	[m]	DC	RRI
2540.0	[m]	DC	RRI
2570.0	[m]	DC	RRI
2605.0	[m]	DC	RRI
2660.0	[m]	DC	RRI
2720.0	[m]	DC	RRI
2750.0	[m]	DC	RRI
2780.0	[m]	DC	RRI
2810.0	[m]	DC	RRI
2840.0	[m]	DC	RRI
2870.0	[m]	DC	RRI
2902.0	[m]	DC	RRI



2922.0	[m]	SWC	HYDRO
2929.0	[m]	SWC	RRI
2933.0	[m]	SWC	RRI
2939.0	[m]	SWC	RRI
2943.0	[m]	SWC	RRI
2944.0	[m]	SWC	HYDRO
2945.0	[m]	SWC	HYDRO
2947.0	[m]	SWC	HYDRO
2951.0	[m]	SWC	HYDRO
2955.0	[m]	SWC	HYDRO
2957.0	[m]	C	HYDRO
2958.0	[m]	C	HYDRO
2959.0	[m]	C	HYDRO
2960.0	[m]	C	HYDRO
2963.0	[m]	C	HYDRO
2965.0	[m]	C	RRI
2969.0	[m]	C	HYDRO
2969.0	[m]	SWC	HYDRO
2973.0	[m]	C	HYDRO
2979.0	[m]	SWC	HYDRO
2980.0	[m]	C	HYDRO
2986.0	[m]	SWC	HYDRO
2987.0	[m]	C	HYDRO
2992.0	[m]	C	HYDRO
2993.0	[m]	SWC	HYDRO
2998.0	[m]	SWC	HYDRO
2999.0	[m]	C	HYDRO
3000.0	[m]	SWC	HYDRO
3004.0	[m]	SWC	HYDRO
3004.0	[m]	C	HYDRO
3005.0	[m]	DC	RRI
3009.0	[m]	C	HYDRO
3016.0	[m]	C	HYDRO
3018.0	[m]	C	HYDRO
3020.0	[m]	C	HYDRO
3021.0	[m]	C	HYDRO
3022.0	[m]	C	HYDRO
3024.0	[m]	C	HYDRO
3025.0	[m]	C	HYDRO
3028.0	[m]	C	HYDRO



3032.0 [m]	DC	RRI
3033.0 [m]	C	HYDRO
3048.0 [m]	C	HYDRO
3060.0 [m]	C	HYDRO
3071.0 [m]	C	HYDRO
3077.0 [m]	C	HYDRO
3084.0 [m]	C	HYDRO
3085.0 [m]	C	HYDRO
3091.0 [m]	C	HYDRO
3095.0 [m]	C	HYDRO
3100.0 [m]	C	HYDRO
3103.0 [m]	C	HYDRO
3105.0 [m]	C	HYDRO
3115.0 [m]	C	HYDRO
3119.0 [m]	C	HYDRO
3124.0 [m]	C	HYDRO
3128.0 [m]	C	HYDRO
3129.0 [m]	C	HYDRO
3130.0 [m]	C	RRI
3132.0 [m]	C	HYDRO
3136.0 [m]	C	HYDRO
3142.0 [m]	C	HYDRO
3146.0 [m]	C	HYDRO
3152.0 [m]	C	HYDRO
3157.0 [m]	C	HYDRO
3163.0 [m]	C	HYDRO
3164.0 [m]	C	HYDRO
3169.0 [m]	C	HYDRO
3176.0 [m]	C	HYDRO
3183.0 [m]	C	HYDRO
3187.0 [m]	C	HYDRO
3188.0 [m]	C	HYDRO
3202.0 [m]	DC	RRI
3210.0 [m]	DC	RRI
3217.0 [m]	DC	RRI
3225.0 [m]	DC	RRI
3232.0 [m]	DC	RRI
3240.0 [m]	DC	RRI
3247.0 [m]	DC	RRI
3255.0 [m]	DC	RRI



3262.0	[m]	DC	RRI
3270.0	[m]	DC	RRI
3277.0	[m]	DC	RRI
3285.0	[m]	DC	RRI
3292.0	[m]	DC	RRI
3300.0	[m]	DC	RRI
3307.0	[m]	DC	RRI
3315.0	[m]	DC	RRI
3322.0	[m]	DC	RRI
3330.0	[m]	DC	RRI
3337.0	[m]	DC	RRI
3360.0	[m]	DC	RRI
3367.0	[m]	DC	RRI
3375.0	[m]	DC	RRI
3386.0	[m]	SWC	HYDRO
3390.0	[m]	DC	RRI
3397.0	[m]	DC	RRI
3404.0	[m]	SWC	HYDRO
3412.0	[m]	DC	RRI
3420.0	[m]	DC	RRI
3425.0	[m]	DC	RRI
3435.0	[m]	DC	RRI
3445.0	[m]	DC	RRI
3450.0	[m]	DC	RRI
3460.0	[m]	DC	RRI
3470.0	[m]	DC	RRI
3480.0	[m]	SWC	HYDRO
3490.0	[m]	DC	RRI
3500.0	[m]	DC	RRI
3510.0	[m]	DC	RRI
3520.0	[m]	DC	RRI
3530.0	[m]	DC	RRI
3540.0	[m]	DC	RRI
3550.0	[m]	DC	RRI
3560.0	[m]	DC	RRI
3570.0	[m]	DC	RRI
3590.0	[m]	DC	RRI
3600.0	[m]	DC	RRI
3620.0	[m]	DC	RRI
3627.0	[m]	SWC	HYDRO



3640.0	[m]	DC	RRI
3650.0	[m]	DC	RRI
3660.0	[m]	DC	RRI
3670.0	[m]	DC	RRI
3680.0	[m]	DC	RRI
3690.0	[m]	DC	RRI
3700.0	[m]	DC	RRI
3710.0	[m]	DC	RRI
3720.0	[m]	DC	RRI
3730.0	[m]	DC	RRI
3736.0	[m]	C	HYDRO
3740.0	[m]	SWC	HYDRO
3750.0	[m]	DC	RRI
3759.0	[m]	DC	RRI
3770.0	[m]	DC	RRI
3780.0	[m]	DC	RRI
3790.0	[m]	DC	RRI
3800.0	[m]	DC	RRI
3810.0	[m]	DC	RRI
3820.0	[m]	DC	RRI
3830.0	[m]	DC	RRI
3840.0	[m]	DC	RRI
3850.0	[m]	DC	RRI
3858.0	[m]	SWC	HYDRO
3870.0	[m]	DC	RRI
3880.0	[m]	DC	RRI
3890.0	[m]	DC	RRI
3900.0	[m]	DC	RRI
3910.0	[m]	DC	RRI
3920.0	[m]	DC	RRI
3930.0	[m]	DC	RRI
3940.0	[m]	DC	RRI
3950.0	[m]	DC	RRI
3964.0	[m]	SWC	HYDRO
3970.0	[m]	DC	RRI
3983.0	[m]	SWC	HYDRO
3990.0	[m]	DC	RRI
3997.0	[m]	SWC	HYDRO
4007.0	[m]	SWC	HYDRO
4027.0	[m]	DC	RRI

**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	3086.50	3094.50	OIL	14.09.1991 - 14:00	YES
DST	TEST2	3023.90	3072.90		29.09.1991 - 15:00	YES
DST	DST3	2958.10	2986.10	CONDE NSATE	04.10.1991 - 10:15	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
131	NORLAND GP
656	UTSIRA FM
690	UNDIFFERENTIATED
892	HORDALAND GP
944	SKADE FM
1015	NO FORMAL NAME
1160	GRID FM
1417	NO FORMAL NAME
1515	GRID FM
1535	NO FORMAL NAME
1684	GRID FM
1703	NO FORMAL NAME
2199	ROGALAND GP
2199	BALDER FM
2264	SELE FM
2334	LISTA FM
2480	VÅLE FM
2493	SHETLAND GP
2493	HARDRÅDE FM
2795	KYRRE FM
2902	CROMER KNOLL GP
2902	RØDBY FM
2926	SOLA FM
2931	MIME FM



2943	ÅSGARD FM
2944	VIKING GP
2944	HEATHER FM
2959	INTRA HEATHER FM SS
3024	BRENT GP
3024	TARBERT FM
3194	NESS FM
3437	UNDIFFERENTIATED
3444	OSEBERG FM
3452	DUNLIN GP
3452	DRAKE FM
3758	COOK FM
3826	AMUNDSEN FM
3976	STATFJORD GP

Composite logs

Document name	Document format	Document size [MB]
1811	pdf	0.62

Geochemical information

Document name	Document format	Document size [MB]
1811_1	pdf	1.94

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

Document name	Document format	Document size [MB]
1811_01_WDSS_General_Information	pdf	0.62
1811_02_WDSS_completion_log	pdf	0.23

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





Document name	Document format	Document size [MB]
1811_30_9_13_S_COMPLETION_REPORT_AND_LOG	pdf	18.78

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	3086	3095	19.0
2.0	3024	3073	19.0
3.0	2958	2986	28.5

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0				114
2.0				110
3.0				86

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0	792	120983	0.850	0.730	153
2.0	535	107458	0.840	0.760	201
3.0	90	459522	0.780	0.720	5099

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST GR	2487	3004
CST GR	3386	4021
DIL LSS GR SP AMS	3286	4030
DIL LSS LDL CNL NGT AMS	2874	3396
DIL LSS LDL GR SP AMS	1016	3006
DLL MSFL GR SP CAL AMS	2700	3002
DLL MSFL GR SP CAL AMS	2874	3391
DLL MSFL GR SP CAL AMS	3940	4026
FMS4 GR AMS	2925	4029
LDL CNL NGT CAL AMS	3300	4030
MWD - GR RES DIR	220	4007





RFT HP GR AMS	2966	3097
RFT HP GR AMS	2973	3349
RFT HP GR AMS	3104	3392
RFT HP GR AMS	3979	4008
RFT HP GR AMS	3987	4014
VSP	131	3220

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	216.0	36	218.0	0.00	LOT
INTERM.	13 3/8	1017.0	17 1/2	1020.0	0.00	LOT
INTERM.	9 5/8	2876.0	12 1/4	2880.0	1.88	LOT
LINER	7	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
217	1.05			WATER BASED	08.07.1991
1030	1.20			WATER BASED	10.07.1991
1030	1.20			WATER BASED	10.07.1991
1052	1.10	11.0	9.0	WATER BASED	15.07.1991
1205	1.12	14.0	14.0	WATER BASED	16.07.1991
1486	1.20	16.0	11.0	WATER BASED	16.07.1991
1492	1.20	16.0	11.0	WATER BASED	16.07.1991
1685	1.32	20.0	12.0	WATER BASED	16.07.1991
1822	1.33	20.0	11.0	WATER BASED	17.07.1991
1960	1.33	22.0	13.0	WATER BASED	18.07.1991
2135	1.32	23.0	14.0	WATER BASED	19.07.1991
2249	1.32	22.0	16.0	WATER BASED	23.07.1991
2498	1.31	23.0	15.0	WATER BASED	23.07.1991
2498	1.32	24.0	13.0	WATER BASED	23.07.1991
2521	1.32	22.0	11.0	WATER BASED	23.07.1991
2579	1.32	19.0	10.0	WATER BASED	24.07.1991
2610	1.33	18.0	10.0	WATER BASED	26.07.1991
2675	1.35	19.0	10.0	WATER BASED	30.07.1991
2783	1.35	19.0	9.0	WATER BASED	30.07.1991



2786	1.27	11.0	8.0	WATER BASED	10.10.1991
2851	1.35	20.0	9.0	WATER BASED	30.07.1991
2880	1.35	21.0	11.0	WATER BASED	02.08.1991
2890	1.35	20.0	11.0	WATER BASED	06.08.1991
2890	1.22	12.0	7.0	WATER BASED	06.08.1991
2921	1.22	14.0	9.0	WATER BASED	06.08.1991
2963	1.35	23.0	12.0	WATER BASED	31.07.1991
2975	1.23	15.0	8.0	WATER BASED	06.08.1991
2993	1.22	15.0	8.0	WATER BASED	07.08.1991
3000	1.26	10.0	8.0	WATER BASED	01.10.1991
3009	1.26	7.0	7.0	WATER BASED	07.10.1991
3009	1.26	7.0	7.0	WATER BASED	08.10.1991
3009	1.27	10.0	8.0	WATER BASED	01.10.1991
3009	1.27	9.0	9.0	WATER BASED	01.10.1991
3009	1.29	4.0	7.0	WATER BASED	02.10.1991
3009	1.27	4.0	7.0	WATER BASED	03.10.1991
3009	1.27	8.0	6.0	WATER BASED	04.10.1991
3009	1.27	9.0	6.0	WATER BASED	07.10.1991
3009	1.26	6.0	4.0	WATER BASED	07.10.1991
3009	1.27	11.0	8.0	WATER BASED	09.10.1991
3031	1.35	21.0	9.0	WATER BASED	01.08.1991
3031	1.35	20.0	9.0	WATER BASED	02.08.1991
3033	1.22	20.0	7.0	WATER BASED	08.08.1991
3067	1.22	15.0	6.0	WATER BASED	09.08.1991
3083	1.26	8.0	8.0	WATER BASED	27.09.1991
3083	1.26	8.0	6.0	WATER BASED	23.09.1991
3083	1.26	7.0	7.0	WATER BASED	24.09.1991
3083	1.26	8.0	6.0	WATER BASED	25.09.1991
3083	1.26	8.0	8.0	WATER BASED	27.09.1991
3083	1.26	8.0	7.0	WATER BASED	01.10.1991
3095	1.22	12.0	6.0	WATER BASED	12.08.1991
3122	1.22	14.0	7.0	WATER BASED	12.08.1991
3164	1.22	12.0	7.0	WATER BASED	12.08.1991
3194	1.22	14.0	8.0	WATER BASED	14.08.1991
3223	1.22	13.0	7.0	WATER BASED	14.08.1991
3316	1.22	12.0	7.0	WATER BASED	16.08.1991
3328	1.26	11.0	5.0	WATER BASED	10.09.1991
3328	1.26	8.0	6.0	WATER BASED	16.09.1991
3328	1.26	12.0	7.0	WATER BASED	10.09.1991
3328	1.26	11.0	7.0	WATER BASED	10.09.1991



3328	1.26	11.0	5.0	WATER BASED	10.09.1991
3328	1.26	11.0	5.0	WATER BASED	12.09.1991
3328	1.26	10.0	5.0	WATER BASED	12.09.1991
3328	1.26	10.0	4.0	WATER BASED	16.09.1991
3328	1.26	11.0	5.0	WATER BASED	16.09.1991
3328	1.26	12.0	7.0	WATER BASED	16.09.1991
3328	1.26	8.0	6.0	WATER BASED	17.09.1991
3328	1.26	12.0	7.0	WATER BASED	18.09.1991
3328	1.26	12.0	7.0	WATER BASED	20.09.1991
3328	1.26	8.0	8.0	WATER BASED	20.09.1991
3328	1.26	10.0	6.0	WATER BASED	23.09.1991
3328	1.26	9.0	6.0	WATER BASED	23.09.1991
3385	1.26	16.0	7.0	WATER BASED	16.08.1991
3396	1.26	15.0	7.0	WATER BASED	20.08.1991
3396	1.26	15.0	6.0	WATER BASED	20.08.1991
3396	1.26	14.0	6.0	WATER BASED	20.08.1991
3396	1.26	13.0	5.0	WATER BASED	22.08.1991
3396	1.26	15.0	7.0	WATER BASED	20.08.1991
3399	1.26	15.0	7.0	WATER BASED	22.08.1991
3425	1.26	16.0	7.0	WATER BASED	23.08.1991
3544	1.26	16.0	7.0	WATER BASED	27.08.1991
3597	1.26	15.0	6.0	WATER BASED	27.08.1991
3757	1.26	20.0	8.0	WATER BASED	27.08.1991
3860	1.26	18.0	7.0	WATER BASED	27.08.1991
3963	1.26	22.0	8.0	WATER BASED	28.08.1991
3991	1.26	20.0	8.0	WATER BASED	29.08.1991
4027	1.26	18.0	6.0	WATER BASED	02.09.1991
4027	1.26	19.0	7.0	WATER BASED	02.09.1991
4027	1.25	19.0	8.0	WATER BASED	02.09.1991
4027	1.25	19.0	8.0	WATER BASED	03.09.1991
4027	1.27	20.0	8.0	WATER BASED	04.09.1991
4027	1.27	14.0	8.0	WATER BASED	06.09.1991
4027	1.26	20.0	6.0	WATER BASED	02.09.1991
4027	1.27	14.0	8.0	WATER BASED	06.09.1991

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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