

MENDELL ENERGY, LLC

Location ADAMS COUNTY, CO Slot Slot #3
Field SPINDLE Well AFTON #12-16H-3
Installation AFTON Wellbore AFTON #12-16H-3 (PWB)

Tie on - 0.00 Inc, 0.00 MD, 0.00 TVD, 0.00 VS

Scale 1 cm = 200 ft East (feet) ->

-800 -400 0 400

3DS Kick off Point - 0.00 Inc, 800.00 MD, 800.00 TVD, 0.00 VS

End of Build - 6.09 Inc, 1104.50 MD, 1103.93 TVD, -13.50 VS
9 5/8in Surface Casing

AFTON #12-16H-3 - T2

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00
End of Build	1104.50	6.09	208.39	1103.93	-14.22	-7.69	2.00	-13.50
End of Hold	7277.90	6.09	208.39	7242.49	-590.42	-319.05	0.00	-560.34
Target AFTON #12-16H-3	8232.71	90.14	359.80	7868.00	-18.71	-353.07	10.00	12.15
T.D. & Target AFTON #12	12453.21	90.14	359.80	7858.00	4201.75	-367.91	0.00	4217.83

AFTON #12-16H-3 - T1

E/2 E/2
SEC 12, 1S 68W

Created by admin
Date plotted 29-Jul-2013

Plot reference is AFTON #12-16H-3 (PWB).
Ref wellpath is AFTON #12-16H-3 (PWP#1).
Coordinates are in feet reference Slot #3.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5153.00 ft.
Plot North is aligned to GRID North.

End of Hold - 6.09 Inc, 7277.90 MD, 7242.49 TVD, -560.34 VS

7.0in Intermediate Casing

AFTON #12-16H-3 - T1

T.D. & End of Hold - 7858.00 TVD, 4201.75 N 367.91 W

AFTON #12-16H-3 - T2

S/C Kick off Point - 90.14 Inc, 8232.71 MD, 7868.00 TVD, 12.15 VS

4 1/2in Production Liner

Scale 1 cm = 200 ft

<- True Vertical Depth (feet)

<- North(feet)

Scale 1 cm = 200 ft

Vertical Section (feet) ->

Azimuth 355.00 with reference 0.00 N, 0.00 E from Slot #3



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: AFTON #12-16H-3 (PWB)

Wellhead Details							
Name	Northing	Easting	Latitude	Longitude	North	East	Elevation Above Inst.
Slot #3	1233718.6000	3156356.0600	39.97359103	-104.94210400	0.09S	31.90E	-0.00

Declination			
Date	Source	Time	
	8-Jul-2013	IGRF Model [1900.0-2015.0]	08:51

Site Details				
Name	Northing	Easting	Coord System Name	North Alignment
AFTON	1233718.6871	3156324.1590	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Summary Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1233718.60	3156356.06
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1233718.60	3156356.06
1104.50	6.09	208.390	1103.93	14.22S	7.69W	2.00	-13.50	1233704.38	3156348.37
7277.90	6.09	208.390	7242.49	590.42S	319.05W	==>	-560.34	1233128.20	3156037.02
8232.71	90.14	359.800	7868.00	18.71S	353.07W	10.00	12.15	1233699.89	3156003.00
12453.21	90.14	359.800	7858.00	4201.75N	367.91W	==>	4217.83	1237920.21	3155988.16

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1233718.60	3156356.06
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1233718.60	3156356.06
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1233718.60	3156356.06
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	1233718.60	3156356.06
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	1233718.60	3156356.06
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1233718.60	3156356.06
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	1233718.60	3156356.06
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	1233718.60	3156356.06
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1233718.60	3156356.06
900.00	2.00	208.390	899.98	1.54S	0.83W	2.00	-1.46	1233717.06	3156355.23
1000.00	4.00	208.390	999.84	6.14S	3.32W	2.00	-5.83	1233712.46	3156352.74
1100.00	6.00	208.390	1099.45	13.81S	7.46W	2.00	-13.10	1233704.79	3156348.60
1104.50	6.09	208.390	1103.93	14.22S	7.69W	2.00	-13.50	1233704.38	3156348.37
1200.00	6.09	208.390	1198.89	23.14S	12.50W	==>	-21.96	1233695.46	3156343.56
1300.00	6.09	208.390	1298.32	32.47S	17.55W	==>	-30.82	1233686.13	3156338.51
1400.00	6.09	208.390	1397.76	41.80S	22.59W	==>	-39.67	1233676.80	3156333.47
1500.00	6.09	208.390	1497.19	51.14S	27.63W	==>	-48.53	1233667.46	3156328.43
1600.00	6.09	208.390	1596.63	60.47S	32.68W	==>	-57.39	1233658.13	3156323.38
1700.00	6.09	208.390	1696.07	69.80S	37.72W	==>	-66.25	1233648.80	3156318.34
1800.00	6.09	208.390	1795.50	79.14S	42.76W	==>	-75.11	1233639.46	3156313.30
1900.00	6.09	208.390	1894.94	88.47S	47.81W	==>	-83.96	1233630.13	3156308.25
2000.00	6.09	208.390	1994.37	97.81S	52.85W	==>	-92.82	1233620.80	3156303.21
2100.00	6.09	208.390	2093.81	107.14S	57.90W	==>	-101.68	1233611.46	3156298.17
2200.00	6.09	208.390	2193.24	116.47S	62.94W	==>	-110.54	1233602.13	3156293.12
2300.00	6.09	208.390	2292.68	125.81S	67.98W	==>	-119.40	1233592.80	3156288.08
2400.00	6.09	208.390	2392.12	135.14S	73.03W	==>	-128.25	1233583.46	3156283.04
2500.00	6.09	208.390	2491.55	144.47S	78.07W	==>	-137.11	1233574.13	3156277.99
2600.00	6.09	208.390	2590.99	153.81S	83.11W	==>	-145.97	1233564.80	3156272.95
2700.00	6.09	208.390	2690.42	163.14S	88.16W	==>	-154.83	1233555.47	3156267.91
2800.00	6.09	208.390	2789.86	172.47S	93.20W	==>	-163.69	1233546.13	3156262.86
2900.00	6.09	208.390	2889.29	181.81S	98.24W	==>	-172.54	1233536.80	3156257.82
3000.00	6.09	208.390	2988.73	191.14S	103.29W	==>	-181.40	1233527.47	3156252.78
3100.00	6.09	208.390	3088.17	200.47S	108.33W	==>	-190.26	1233518.13	3156247.73
3200.00	6.09	208.390	3187.60	209.81S	113.38W	==>	-199.12	1233508.80	3156242.69
3300.00	6.09	208.390	3287.04	219.14S	118.42W	==>	-207.98	1233499.47	3156237.65
3400.00	6.09	208.390	3386.47	228.48S	123.46W	==>	-216.83	1233490.13	3156232.60
3500.00	6.09	208.390	3485.91	237.81S	128.51W	==>	-225.69	1233480.80	3156227.56

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 5153.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 355.000 degrees
Bottom hole distance is 4217.83 Feet on azimuth 355.00 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 29-Jul-2013



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: AFTON #12-16H-3 (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
3600.00	6.09	208.390	3585.34	247.14S	133.55W	==>	-234.55	1233471.47	3156222.51
3700.00	6.09	208.390	3684.78	256.48S	138.59W	==>	-243.41	1233462.13	3156217.47
3800.00	6.09	208.390	3784.21	265.81S	143.64W	==>	-252.27	1233452.80	3156212.43
3900.00	6.09	208.390	3883.65	275.14S	148.68W	==>	-261.12	1233443.47	3156207.38
4000.00	6.09	208.390	3983.09	284.48S	153.72W	==>	-269.98	1233434.13	3156202.34
4100.00	6.09	208.390	4082.52	293.81S	158.77W	==>	-278.84	1233424.80	3156197.30
4200.00	6.09	208.390	4181.96	303.14S	163.81W	==>	-287.70	1233415.47	3156192.25
4300.00	6.09	208.390	4281.39	312.48S	168.86W	==>	-296.56	1233406.13	3156187.21
4400.00	6.09	208.390	4380.83	321.81S	173.90W	==>	-305.42	1233396.80	3156182.17
4500.00	6.09	208.390	4480.26	331.14S	178.94W	==>	-314.27	1233387.47	3156177.12
4600.00	6.09	208.390	4579.70	340.48S	183.99W	==>	-323.13	1233378.13	3156172.08
4700.00	6.09	208.390	4679.14	349.81S	189.03W	==>	-331.99	1233368.80	3156167.04
4800.00	6.09	208.390	4778.57	359.14S	194.07W	==>	-340.85	1233359.47	3156161.99
4900.00	6.09	208.390	4878.01	368.48S	199.12W	==>	-349.71	1233350.13	3156156.95
5000.00	6.09	208.390	4977.44	377.81S	204.16W	==>	-358.56	1233340.80	3156151.91
5100.00	6.09	208.390	5076.88	387.15S	209.20W	==>	-367.42	1233331.47	3156146.86
5200.00	6.09	208.390	5176.31	396.48S	214.25W	==>	-376.28	1233322.13	3156141.82
5300.00	6.09	208.390	5275.75	405.81S	219.29W	==>	-385.14	1233312.80	3156136.78
5400.00	6.09	208.390	5375.18	415.15S	224.34W	==>	-394.00	1233303.47	3156131.73
5500.00	6.09	208.390	5474.62	424.48S	229.38W	==>	-402.85	1233294.13	3156126.69
5600.00	6.09	208.390	5574.06	433.81S	234.42W	==>	-411.71	1233284.80	3156121.65
5700.00	6.09	208.390	5673.49	443.15S	239.47W	==>	-420.57	1233275.47	3156116.60
5800.00	6.09	208.390	5772.93	452.48S	244.51W	==>	-429.43	1233266.14	3156111.56
5900.00	6.09	208.390	5872.36	461.81S	249.55W	==>	-438.29	1233256.80	3156106.52
6000.00	6.09	208.390	5971.80	471.15S	254.60W	==>	-447.14	1233247.47	3156101.47
6100.00	6.09	208.390	6071.23	480.48S	259.64W	==>	-456.00	1233238.14	3156096.43
6200.00	6.09	208.390	6170.67	489.81S	264.68W	==>	-464.86	1233228.80	3156091.38
6300.00	6.09	208.390	6270.11	499.15S	269.73W	==>	-473.72	1233219.47	3156086.34
6400.00	6.09	208.390	6369.54	508.48S	274.77W	==>	-482.58	1233210.14	3156081.30
6500.00	6.09	208.390	6468.98	517.81S	279.81W	==>	-491.43	1233200.80	3156076.25
6600.00	6.09	208.390	6568.41	527.15S	284.86W	==>	-500.29	1233191.47	3156071.21
6700.00	6.09	208.390	6667.85	536.48S	289.90W	==>	-509.15	1233182.14	3156066.17
6800.00	6.09	208.390	6767.28	545.82S	294.95W	==>	-518.01	1233172.80	3156061.12
6900.00	6.09	208.390	6866.72	555.15S	299.99W	==>	-526.87	1233163.47	3156056.08
7000.00	6.09	208.390	6966.16	564.48S	305.03W	==>	-535.72	1233154.14	3156051.04
7100.00	6.09	208.390	7065.59	573.82S	310.08W	==>	-544.58	1233144.80	3156045.99
7200.00	6.09	208.390	7165.03	583.15S	315.12W	==>	-553.44	1233135.47	3156040.95
7277.90	6.09	208.390	7242.49	590.42S	319.05W	==>	-560.34	1233128.20	3156037.02
7300.00	4.29	222.750	7264.50	592.06S	320.17W	10.00	-561.87	1233126.56	3156035.90
7400.00	7.46	336.830	7364.19	588.83S	325.27W	10.00	-558.21	1233129.79	3156030.80
7500.00	17.11	350.240	7461.80	568.31S	330.33W	10.00	-537.33	1233150.31	3156025.74
7600.00	27.01	354.040	7554.37	531.13S	335.19W	10.00	-499.87	1233187.49	3156020.88
7700.00	36.96	355.900	7639.08	478.42S	339.71W	10.00	-446.97	1233240.19	3156016.36
7800.00	46.93	357.060	7713.36	411.78S	343.74W	10.00	-380.23	1233306.83	3156012.33
7900.00	56.91	357.880	7774.95	333.24S	347.17W	10.00	-301.69	1233385.37	3156008.90
8000.00	66.90	358.540	7821.99	245.18S	349.90W	10.00	-213.72	1233473.43	3156006.18
8100.00	76.88	359.110	7853.03	150.27S	351.83W	10.00	-119.01	1233568.33	3156004.24
8200.00	86.87	359.630	7867.15	51.41S	352.91W	10.00	-20.43	1233667.19	3156003.16
8232.71	90.14	359.800	7868.00	18.71S	353.07W	10.00	12.15	1233699.89	3156003.00
8300.00	90.14	359.800	7867.84	48.58N	353.31W	==>	79.21	1233767.17	3156002.77
8400.00	90.14	359.800	7867.60	148.58N	353.66W	==>	178.86	1233867.17	3156002.41
8500.00	90.14	359.800	7867.37	248.57N	354.01W	==>	278.51	1233967.17	3156002.06
8600.00	90.14	359.800	7867.13	348.57N	354.36W	==>	378.15	1234067.16	3156001.71
8700.00	90.14	359.800	7866.89	448.57N	354.71W	==>	477.80	1234167.16	3156001.36
8800.00	90.14	359.800	7866.66	548.57N	355.07W	==>	577.45	1234267.15	3156001.01
8900.00	90.14	359.800	7866.42	648.57N	355.42W	==>	677.10	1234367.15	3156000.66
9000.00	90.14	359.800	7866.18	748.57N	355.77W	==>	776.75	1234467.14	3156000.30
9100.00	90.14	359.800	7865.95	848.57N	356.12W	==>	876.40	1234567.14	3155999.95
9200.00	90.14	359.800	7865.71	948.57N	356.47W	==>	976.05	1234667.14	3155999.60
9300.00	90.14	359.800	7865.47	1048.57N	356.82W	==>	1075.70	1234767.13	3155999.25
9400.00	90.14	359.800	7865.23	1148.57N	357.18W	==>	1175.34	1234867.13	3155998.90

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Vertical Section is from 0.00N 0.00E on azimuth 355.000 degrees
Bottom hole distance is 4217.83 Feet on azimuth 355.00 degrees from Wellhead
Calculation method uses Minimum Curvature method
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SYSDRILL
Well Design Combined Report
Wellbore: AFTON #12-16H-3 (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
9500.00	90.14	359.800	7865.00	1248.57N	357.53W	==>	1274.99	1234967.12	3155998.55
9600.00	90.14	359.800	7864.76	1348.56N	357.88W	==>	1374.64	1235067.12	3155998.19
9700.00	90.14	359.800	7864.52	1448.56N	358.23W	==>	1474.29	1235167.11	3155997.84
9800.00	90.14	359.800	7864.29	1548.56N	358.58W	==>	1573.94	1235267.11	3155997.49
9900.00	90.14	359.800	7864.05	1648.56N	358.93W	==>	1673.59	1235367.11	3155997.14
10000.00	90.14	359.800	7863.81	1748.56N	359.29W	==>	1773.24	1235467.10	3155996.79
10100.00	90.14	359.800	7863.58	1848.56N	359.64W	==>	1872.88	1235567.10	3155996.44
10200.00	90.14	359.800	7863.34	1948.56N	359.99W	==>	1972.53	1235667.09	3155996.08
10300.00	90.14	359.800	7863.10	2048.56N	360.34W	==>	2072.18	1235767.09	3155995.73
10400.00	90.14	359.800	7862.86	2148.56N	360.69W	==>	2171.83	1235867.09	3155995.38
10500.00	90.14	359.800	7862.63	2248.56N	361.04W	==>	2271.48	1235967.08	3155995.03
10600.00	90.14	359.800	7862.39	2348.56N	361.40W	==>	2371.13	1236067.08	3155994.68
10700.00	90.14	359.800	7862.15	2448.55N	361.75W	==>	2470.78	1236167.07	3155994.33
10800.00	90.14	359.800	7861.92	2548.55N	362.10W	==>	2570.42	1236267.07	3155993.97
10900.00	90.14	359.800	7861.68	2648.55N	362.45W	==>	2670.07	1236367.06	3155993.62
11000.00	90.14	359.800	7861.44	2748.55N	362.80W	==>	2769.72	1236467.06	3155993.27
11100.00	90.14	359.800	7861.21	2848.55N	363.15W	==>	2869.37	1236567.06	3155992.92
11200.00	90.14	359.800	7860.97	2948.55N	363.51W	==>	2969.02	1236667.05	3155992.57
11300.00	90.14	359.800	7860.73	3048.55N	363.86W	==>	3068.67	1236767.05	3155992.22
11400.00	90.14	359.800	7860.50	3148.55N	364.21W	==>	3168.32	1236867.04	3155991.86
11500.00	90.14	359.800	7860.26	3248.55N	364.56W	==>	3267.96	1236967.04	3155991.51
11600.00	90.14	359.800	7860.02	3348.55N	364.91W	==>	3367.61	1237067.03	3155991.16
11700.00	90.14	359.800	7859.78	3448.55N	365.26W	==>	3467.26	1237167.03	3155990.81
11800.00	90.14	359.800	7859.55	3548.54N	365.62W	==>	3566.91	1237267.03	3155990.46
11900.00	90.14	359.800	7859.31	3648.54N	365.97W	==>	3666.56	1237367.02	3155990.11
12000.00	90.14	359.800	7859.07	3748.54N	366.32W	==>	3766.21	1237467.02	3155989.75
12100.00	90.14	359.800	7858.84	3848.54N	366.67W	==>	3865.86	1237567.01	3155989.40
12200.00	90.14	359.800	7858.60	3948.54N	367.02W	==>	3965.51	1237667.01	3155989.05
12300.00	90.14	359.800	7858.36	4048.54N	367.37W	==>	4065.15	1237767.00	3155988.70
12400.00	90.14	359.800	7858.13	4148.54N	367.73W	==>	4164.80	1237867.00	3155988.35
12453.21	90.14	359.800	7858.00	4201.75N	367.91W	==>	4217.83	1237920.21	3155988.16

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 5153.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 355.000 degrees
Bottom hole distance is 4217.83 Feet on azimuth 355.00 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 29-Jul-2013



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: AFTON #12-16H-3 (PWB)

Hole Sections								
Diameter	Start	Start	Start	Start	End	End	End	End
[in]	MD[ft]	TVD[ft]	North[ft]	East[ft]	MD[ft]	TVD[ft]	North[ft]	East[ft]
13 1/2	0.00	0.00	0.00N	0.00E	1250.00	1248.61	27.80S	15.02W
8 3/4	1250.00	1248.61	27.80S	15.02W	8233.00	7868.00	18.42S	353.07W
6 1/8	8233.00	7868.00	18.42S	353.07W	12453.21	7858.00	4201.75N	367.91W

Casings								
Name	Top	Top	Top	Top	Shoe	Shoe	Shoe	Shoe
	MD[ft]	TVD[ft]	North[ft]	East[ft]	MD[ft]	TVD[ft]	North[ft]	East[ft]
9 5/8in Surface Casing	0.00	0.00	0.00N	0.00E	1250.00	1248.61	27.80S	15.02W
7.0in Intermediate Casing	0.00	0.00	0.00N	0.00E	8233.00	7868.00	18.42S	353.07W
4 1/2in Production Liner	7300.00	7264.50	592.06S	320.17W	12453.21	7858.00	4201.75N	367.91W

Targets								
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
AFTON	138.71S	353.07W	7856.00	39.97321634	-104.94336683	1233579.89	3156003.00	8-Jul-2013
#12-16H-3 - T1								
AFTON	4201.75N	367.91W	7858.00	39.98513138	-104.94332256	1237920.21	3155988.16	8-Jul-2013
#12-16H-3 - T2								

Survey Tool Program						
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model	
54750	Planned	12453.21	7858.00	WdW Rate Gyro	Standard	

Notes

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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: AFTON #12-16H-3 (PWB)

Ellipse separations are reported ONLY if BOTH wells have uncertainty data
Only Depth and Magnetic Reference Field error terms are correlated across tie points
Scan limit is calculated on CENTRE to CENTRE distance

Summary data uses Closest Approach clearance calculation for all minima
Hole size/Casings ARE included
Hole size/Casings are NOT subtracted from Centre-Centre distance
Confidence limit of 95.00% / 2.80 SD.

Wellbore		
Name	Created	Last Revised
AFTON #12-16H-3 (PWB)	9-Jul-2013	29-Jul-2013

Well		
Name	Government ID	Last Revised
AFTON #12-16H-3		9-Jul-2013

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #3	1233718.6000	3156356.0600	39.97359103	-104.94210400	0.09S	31.90E

Installation					
Name	Easting	Northing	Coord System Name	North Alignment	
AFTON	3156324.1590	1233718.6871	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid	

Field					
Name	Easting	Northing	Coord System Name	North Alignment	
SPINDLE	3156324.1590	1233718.6871	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid	

Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
AFTON #12-16H-4	AFTON #12-16H-4 (PWB)	Slot #4	AFTON	15.98	803.81	12448.71	13.72	803.81	5.61	12448.71
BARKER #12-9	BARKER #12-9 (AWB)	BARKER #12-9	Offsets	48.32	9607.13	9607.13	26.94	9607.13	2.25	9612.86
ELMS #2	ELMS #2 (AWB)	ELMS #2	Offsets	76.73	11212.52	11212.52	42.04	11212.52	2.21	11212.52
PULIS #12-8	PULIS #12-8 (AWB)	PULIS #12-8	Offsets	104.55	1230.31	8284.12	100.53	1246.72	25.53	1673.23
DARLOW UNIT #12-16B	DARLOW UNIT #12-16B (AWB)	DARLOW UNIT #12-16B	Offsets	117.23	8319.46	8319.46	103.33	8319.46	8.43	8319.46
Ruby #1	Ruby #1 (AWB)	Ruby #1	Offsets	1010.72	8267.92	8267.92	996.87	8267.92	69.87	8727.03
TUDEX REINHOLT #NC4	TUDEX REINHOLT #NC4 (AWB)	TUDEX REINHOLT #NC4	Offsets	1075.51	12000.00	12000.00	1034.01	12007.87	25.34	12171.92
Ruby #2	Ruby #2 (AWB)	Ruby #2	Offsets	1142.07	9629.27	9629.27	1113.75	9645.67	38.26	9924.54
MALLO #1	MALLO #1 (AWB)	MALLO #1	Offsets	1201.65	5216.54	8326.85	1191.05	5216.54	112.67	5331.36
DARLOW #12-2	DARLOW #12-2 (AWB)	DARLOW #12-2	Offsets	1442.30	803.81	9645.67	1439.07	803.81	186.65	5249.34
BELLINGE	BELLINGER #12-7	BELLINGE	Offsets	1931.00	803.81	9647.44	1927.71	820.21	173.77	11154.86

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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: AFTON #12-16H-3 (PWB)

Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
R #12-7	(AWB)	R #12-7								
TUDEX BRINK #S-2	TUDEX BRINK #S-2 (AWB)	TUDEX BRINK #S-2	Offsets	2409.16	180.45	10318.24	2407.10	803.81	167.53	11482.94
ELMS #12-4	ELMS #12-4 (AWB)	ELMS #12-4	Offsets	2655.97	803.81	10866.74	2652.69	803.81	162.04	11761.81
SEVENS #1	SEVENS #1 (AWB)	SEVENS #1	Offsets	2814.87	12270.34	12270.34	2796.10	12270.34	147.04	12453.21
LENART #S-1	LENART #S-1 (AWB)	LENART #S-1	Offsets	2866.25	11646.98	11646.98	2847.22	11646.98	140.61	12453.21
CROFF #12-5	CROFF #12-5 (AWB)	CROFF #12-5	Offsets	2960.99	10930.20	10930.20	2943.03	10941.60	144.01	12155.51
REINHOLT #12-6	REINHOLT #12-6 (AWB)	REINHOLT #12-6	Offsets	2983.14	12034.11	12034.11	2961.41	12040.68	128.75	12453.21