





INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: FRYE FARMS #6 (Rev 1)



Wellhead Details							
Name	Northing	Easting	Latitude	Longitude	North	East	Elevation Above Inst.
Slot #6	1403433.8430	3164062.1747	40.43933092	-104.91058342	59.80N	53.12W	-0.00

Declination			
Date	Source	Time	
17-Oct-2012	IGRF Model [1900.0-2015.0]	17:08	
25-Oct-2012	IGRF Model [1900.0-2015.0]	11:33	
25-Oct-2012	IGRF Model [1900.0-2015.0]	11:47	

Site Details				
Name	Northing	Easting	Coord System Name	North Alignment
Frye Farms	1403374.0431	3164115.2936	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
13.00	0.00	0.000	13.00	0.00N	0.00E		0.00	1403433.84	3164062.17
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
1090.49	1.81	106.720	1090.48	0.41S	1.37E	2.00	1.37	1403433.43	3164063.54
6224.00	1.81	106.720	6221.42	47.07S	156.64E	==>	156.56	1403386.78	3164218.81
7327.41	90.00	89.350	6916.00	45.53S	872.54E	8.00	872.46	1403388.32	3164934.68
8117.96	90.00	89.350	6916.00	36.59S	1663.04E	==>	1662.98	1403397.26	3165725.15
8118.41	90.00	89.360	6916.00	36.58S	1663.49E	1.00	1663.43	1403397.26	3165725.60
12282.27	90.00	89.360	6916.00	9.94N	5827.09E	==>	5827.10	1403443.78	3169889.04

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	1403433.84	3164062.17
13.00	0.00	0.000	13.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
987.00	0.00	0.000	987.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	1403433.84	3164062.17
1087.00	1.74	106.720	1086.99	0.38S	1.27E	2.00	1.26	1403433.46	3164063.44
1090.49	1.81	106.720	1090.48	0.41S	1.37E	2.00	1.37	1403433.43	3164063.54
1100.00	1.81	106.720	1099.98	0.50S	1.66E	==>	1.66	1403433.35	3164063.83
1200.00	1.81	106.720	1199.93	1.41S	4.68E	==>	4.68	1403432.44	3164066.86
1300.00	1.81	106.720	1299.88	2.32S	7.71E	==>	7.70	1403431.53	3164069.88
1400.00	1.81	106.720	1399.83	3.22S	10.73E	==>	10.72	1403430.62	3164072.90
1500.00	1.81	106.720	1499.78	4.13S	13.76E	==>	13.75	1403429.71	3164075.93
1600.00	1.81	106.720	1599.73	5.04S	16.78E	==>	16.77	1403428.80	3164078.95
1700.00	1.81	106.720	1699.68	5.95S	19.80E	==>	19.79	1403427.89	3164081.98
1800.00	1.81	106.720	1799.63	6.86S	22.83E	==>	22.82	1403426.98	3164085.00
1900.00	1.81	106.720	1899.58	7.77S	25.85E	==>	25.84	1403426.07	3164088.03
2000.00	1.81	106.720	1999.53	8.68S	28.88E	==>	28.86	1403425.17	3164091.05
2100.00	1.81	106.720	2099.48	9.59S	31.90E	==>	31.89	1403424.26	3164094.08
2200.00	1.81	106.720	2199.43	10.49S	34.93E	==>	34.91	1403423.35	3164097.10
2300.00	1.81	106.720	2299.38	11.40S	37.95E	==>	37.93	1403422.44	3164100.13
2400.00	1.81	106.720	2399.33	12.31S	40.98E	==>	40.96	1403421.53	3164103.15
2500.00	1.81	106.720	2499.28	13.22S	44.00E	==>	43.98	1403420.62	3164106.18
2600.00	1.81	106.720	2599.23	14.13S	47.03E	==>	47.00	1403419.71	3164109.20
2700.00	1.81	106.720	2699.18	15.04S	50.05E	==>	50.03	1403418.80	3164112.22
2800.00	1.81	106.720	2799.13	15.95S	53.08E	==>	53.05	1403417.90	3164115.25

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 4894.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 89.900 degrees
Bottom hole distance is 5827.10 Feet on azimuth 89.90 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 8-May-2014



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Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
2900.00	1.81	106.720	2899.08	16.86S	56.10E	==>	56.07	1403416.99	3164118.27
3000.00	1.81	106.720	2999.03	17.77S	59.13E	==>	59.10	1403416.08	3164121.30
3100.00	1.81	106.720	3098.98	18.67S	62.15E	==>	62.12	1403415.17	3164124.32
3200.00	1.81	106.720	3198.93	19.58S	65.18E	==>	65.14	1403414.26	3164127.35
3300.00	1.81	106.720	3298.88	20.49S	68.20E	==>	68.16	1403413.35	3164130.37
3400.00	1.81	106.720	3398.83	21.40S	71.22E	==>	71.19	1403412.44	3164133.40
3500.00	1.81	106.720	3498.78	22.31S	74.25E	==>	74.21	1403411.53	3164136.42
3600.00	1.81	106.720	3598.73	23.22S	77.27E	==>	77.23	1403410.63	3164139.45
3700.00	1.81	106.720	3698.68	24.13S	80.30E	==>	80.26	1403409.72	3164142.47
3800.00	1.81	106.720	3798.63	25.04S	83.32E	==>	83.28	1403408.81	3164145.49
3900.00	1.81	106.720	3898.58	25.95S	86.35E	==>	86.30	1403407.90	3164148.52
4000.00	1.81	106.720	3998.53	26.85S	89.37E	==>	89.33	1403406.99	3164151.54
4100.00	1.81	106.720	4098.48	27.76S	92.40E	==>	92.35	1403406.08	3164154.57
4200.00	1.81	106.720	4198.43	28.67S	95.42E	==>	95.37	1403405.17	3164157.59
4300.00	1.81	106.720	4298.38	29.58S	98.45E	==>	98.40	1403404.26	3164160.62
4400.00	1.81	106.720	4398.33	30.49S	101.47E	==>	101.42	1403403.35	3164163.64
4500.00	1.81	106.720	4498.28	31.40S	104.50E	==>	104.44	1403402.45	3164166.67
4600.00	1.81	106.720	4598.23	32.31S	107.52E	==>	107.47	1403401.54	3164169.69
4700.00	1.81	106.720	4698.18	33.22S	110.55E	==>	110.49	1403400.63	3164172.72
4800.00	1.81	106.720	4798.13	34.12S	113.57E	==>	113.51	1403399.72	3164175.74
4900.00	1.81	106.720	4898.08	35.03S	116.60E	==>	116.54	1403398.81	3164178.77
5000.00	1.81	106.720	4998.03	35.94S	119.62E	==>	119.56	1403397.90	3164181.79
5100.00	1.81	106.720	5097.98	36.85S	122.64E	==>	122.58	1403396.99	3164184.81
5200.00	1.81	106.720	5197.93	37.76S	125.67E	==>	125.60	1403396.08	3164187.84
5300.00	1.81	106.720	5297.88	38.67S	128.69E	==>	128.63	1403395.18	3164190.86
5400.00	1.81	106.720	5397.84	39.58S	131.72E	==>	131.65	1403394.27	3164193.89
5500.00	1.81	106.720	5497.79	40.49S	134.74E	==>	134.67	1403393.36	3164196.91
5600.00	1.81	106.720	5597.74	41.40S	137.77E	==>	137.70	1403392.45	3164199.94
5700.00	1.81	106.720	5697.69	42.30S	140.79E	==>	140.72	1403391.54	3164202.96
5800.00	1.81	106.720	5797.64	43.21S	143.82E	==>	143.74	1403390.63	3164205.99
5900.00	1.81	106.720	5897.59	44.12S	146.84E	==>	146.77	1403389.72	3164209.01
6000.00	1.81	106.720	5997.54	45.03S	149.87E	==>	149.79	1403388.81	3164212.04
6100.00	1.81	106.720	6097.49	45.94S	152.89E	==>	152.81	1403387.90	3164215.06
6200.00	1.81	106.720	6197.44	46.85S	155.92E	==>	155.84	1403387.00	3164218.08
6224.00	1.81	106.720	6221.42	47.07S	156.64E	==>	156.56	1403386.78	3164218.81
6300.00	7.83	93.290	6297.12	47.71S	162.96E	8.00	162.88	1403386.14	3164225.13
6400.00	15.82	91.260	6394.92	48.40S	183.42E	8.00	183.34	1403385.44	3164245.59
6500.00	23.81	90.580	6488.93	48.91S	217.28E	8.00	217.20	1403384.94	3164279.45
6600.00	31.81	90.220	6577.30	49.21S	263.90E	8.00	263.82	1403384.63	3164326.07
6700.00	39.81	90.000	6658.33	49.32S	322.37E	8.00	322.28	1403384.53	3164384.53
6800.00	47.81	89.840	6730.44	49.21S	391.54E	8.00	391.45	1403384.63	3164453.70
6900.00	55.81	89.720	6792.21	48.91S	470.07E	8.00	469.99	1403384.94	3164532.23
7000.00	63.81	89.620	6842.46	48.41S	556.43E	8.00	556.35	1403385.44	3164618.59
7100.00	71.81	89.530	6880.20	47.72S	648.95E	8.00	648.87	1403386.13	3164711.10
7200.00	79.81	89.450	6904.70	46.85S	745.81E	8.00	745.73	1403386.99	3164807.96
7300.00	87.81	89.370	6915.48	45.83S	845.14E	8.00	845.06	1403388.01	3164907.29
7327.41	90.00	89.350	6916.00	45.53S	872.54E	8.00	872.46	1403388.32	3164934.68
7400.00	90.00	89.350	6916.00	44.70S	945.13E	==>	945.05	1403389.14	3165007.27
7500.00	90.00	89.350	6916.00	43.57S	1045.12E	==>	1045.05	1403390.27	3165107.26
7600.00	90.00	89.350	6916.00	42.44S	1145.12E	==>	1145.04	1403391.40	3165207.25
7700.00	90.00	89.350	6916.00	41.31S	1245.11E	==>	1245.04	1403392.53	3165307.24
7800.00	90.00	89.350	6916.00	40.18S	1345.11E	==>	1345.04	1403393.66	3165407.23
7900.00	90.00	89.350	6916.00	39.05S	1445.10E	==>	1445.03	1403394.79	3165507.22
8000.00	90.00	89.350	6916.00	37.92S	1545.09E	==>	1545.03	1403395.92	3165607.21
8100.00	90.00	89.350	6916.00	36.79S	1645.09E	==>	1645.02	1403397.05	3165707.20
8117.96	90.00	89.350	6916.00	36.59S	1663.04E	==>	1662.98	1403397.26	3165725.15
8118.41	90.00	89.360	6916.00	36.58S	1663.49E	1.00	1663.43	1403397.26	3165725.60
8200.00	90.00	89.360	6916.00	35.67S	1745.08E	==>	1745.02	1403398.17	3165807.19
8300.00	90.00	89.360	6916.00	34.55S	1845.07E	==>	1845.01	1403399.29	3165907.18
8400.00	90.00	89.360	6916.00	33.44S	1945.07E	==>	1945.01	1403400.41	3166007.17

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4894.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 89.900 degrees
Bottom hole distance is 5827.10 Feet on azimuth 89.90 degrees from Wellhead
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MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
8500.00	90.00	89.360	6916.00	32.32S	2045.06E	==>	2045.00	1403401.53	3166107.15
8600.00	90.00	89.360	6916.00	31.20S	2145.06E	==>	2145.00	1403402.64	3166207.14
8700.00	90.00	89.360	6916.00	30.08S	2245.05E	==>	2244.99	1403403.76	3166307.13
8800.00	90.00	89.360	6916.00	28.97S	2345.04E	==>	2344.99	1403404.88	3166407.12
8900.00	90.00	89.360	6916.00	27.85S	2445.04E	==>	2444.99	1403405.99	3166507.11
9000.00	90.00	89.360	6916.00	26.73S	2545.03E	==>	2544.98	1403407.11	3166607.10
9100.00	90.00	89.360	6916.00	25.62S	2645.02E	==>	2644.98	1403408.23	3166707.09
9200.00	90.00	89.360	6916.00	24.50S	2745.02E	==>	2744.97	1403409.35	3166807.08
9300.00	90.00	89.360	6916.00	23.38S	2845.01E	==>	2844.97	1403410.46	3166907.07
9400.00	90.00	89.360	6916.00	22.26S	2945.01E	==>	2944.96	1403411.58	3167007.06
9500.00	90.00	89.360	6916.00	21.15S	3045.00E	==>	3044.96	1403412.70	3167107.05
9600.00	90.00	89.360	6916.00	20.03S	3144.99E	==>	3144.95	1403413.82	3167207.04
9700.00	90.00	89.360	6916.00	18.91S	3244.99E	==>	3244.95	1403414.93	3167307.03
9800.00	90.00	89.360	6916.00	17.79S	3344.98E	==>	3344.95	1403416.05	3167407.02
9900.00	90.00	89.360	6916.00	16.68S	3444.97E	==>	3444.94	1403417.17	3167507.01
10000.00	90.00	89.360	6916.00	15.56S	3544.97E	==>	3544.94	1403418.28	3167607.00
10100.00	90.00	89.360	6916.00	14.44S	3644.96E	==>	3644.93	1403419.40	3167706.99
10200.00	90.00	89.360	6916.00	13.33S	3744.96E	==>	3744.93	1403420.52	3167806.98
10300.00	90.00	89.360	6916.00	12.21S	3844.95E	==>	3844.92	1403421.64	3167906.97
10400.00	90.00	89.360	6916.00	11.09S	3944.94E	==>	3944.92	1403422.75	3168006.96
10500.00	90.00	89.360	6916.00	9.97S	4044.94E	==>	4044.91	1403423.87	3168106.95
10600.00	90.00	89.360	6916.00	8.86S	4144.93E	==>	4144.91	1403424.99	3168206.94
10700.00	90.00	89.360	6916.00	7.74S	4244.92E	==>	4244.90	1403426.10	3168306.93
10800.00	90.00	89.360	6916.00	6.62S	4344.92E	==>	4344.90	1403427.22	3168406.92
10900.00	90.00	89.360	6916.00	5.50S	4444.91E	==>	4444.90	1403428.34	3168506.91
11000.00	90.00	89.360	6916.00	4.39S	4544.91E	==>	4544.89	1403429.46	3168606.90
11100.00	90.00	89.360	6916.00	3.27S	4644.90E	==>	4644.89	1403430.57	3168706.89
11200.00	90.00	89.360	6916.00	2.15S	4744.89E	==>	4744.88	1403431.69	3168806.88
11300.00	90.00	89.360	6916.00	1.04S	4844.89E	==>	4844.88	1403432.81	3168906.87
11400.00	90.00	89.360	6916.00	0.08N	4944.88E	==>	4944.87	1403433.93	3169006.86
11500.00	90.00	89.360	6916.00	1.20N	5044.87E	==>	5044.87	1403435.04	3169106.85
11600.00	90.00	89.360	6916.00	2.32N	5144.87E	==>	5144.86	1403436.16	3169206.84
11700.00	90.00	89.360	6916.00	3.43N	5244.86E	==>	5244.86	1403437.28	3169306.83
11800.00	90.00	89.360	6916.00	4.55N	5344.86E	==>	5344.86	1403438.39	3169406.82
11900.00	90.00	89.360	6916.00	5.67N	5444.85E	==>	5444.85	1403439.51	3169506.81
12000.00	90.00	89.360	6916.00	6.79N	5544.84E	==>	5544.85	1403440.63	3169606.80
12100.00	90.00	89.360	6916.00	7.90N	5644.84E	==>	5644.84	1403441.75	3169706.79
12200.00	90.00	89.360	6916.00	9.02N	5744.83E	==>	5744.84	1403442.86	3169806.78
12282.27	90.00	89.360	6916.00	9.94N	5827.09E	==>	5827.10	1403443.78	3169889.04

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Hole Sections								
Diameter [in]	Start MD[ft]	Start TVD[ft]	Start North[ft]	Start East[ft]	End MD[ft]	End TVD[ft]	End North[ft]	End East[ft]
12 1/4	13.00	13.00	0.00N	0.00E	850.00	850.00	0.00N	0.00E
8 3/4	850.00	850.00	0.00N	0.00E	7327.00	6916.00	45.53S	872.14E
6 1/8	7327.00	6916.00	45.53S	872.14E	12282.27	6916.00	9.94N	5827.09E

Casings								
Name	Top MD[ft]	Top TVD[ft]	Top North[ft]	Top East[ft]	Shoe MD[ft]	Shoe TVD[ft]	Shoe North[ft]	Shoe East[ft]
9 5/8in Surface Casing	13.00	13.00	0.00N	0.00E	850.00	850.00	0.00N	0.00E
7.0in Intermediate Casing	13.00	13.00	0.00N	0.00E	7327.00	6916.00	45.53S	872.14E
4 1/2in Production Liner	7127.00	6888.14	47.50S	674.75E	12282.27	6916.00	9.94N	5827.09E

Targets								
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
FF 6R - T1	45.53S	872.54E	6916.00	40.43919000	-104.90745000	1403388.32	3164934.68	16-Dec-2013
FF 6R - T2	36.59S	1663.04E	6916.00	40.43920000	-104.90461000	1403397.26	3165725.15	16-Dec-2013
FF 6R - T3	9.94N	5827.09E	6916.00	40.43925000	-104.88965000	1403443.78	3169889.04	16-Dec-2013

Survey Tool Program						
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model	
190105	Planned	12282.27	6916.00	WdW Rate Gyro	Standard	

Notes

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 4894.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 89.900 degrees
Bottom hole distance is 5827.10 Feet on azimuth 89.90 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 8-May-2014



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Ellipse separations are reported ONLY if BOTH wells have uncertainty data
Only Depth and Magnetic Reference Field error terms are correlated across tie points
Proximities beyond 2500.00ft with expansion rate of 0.00ft/1000ft are not reported
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
FRYE FARMS #6 (Rev 1)	8-May-2014	8-May-2014

Well		
Name	Government ID	Last Revised
FRYE FARMS #6		16-May-2013

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #6	1403433.8430	3164062.1747	40.43933092	-104.91058342	59.80N	53.12W

Installation				
Name	Easting	Northing	Coord System Name	North Alignment
Frye Farms	3164115.2936	1403374.0431	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Field				
Name	Easting	Northing	Coord System Name	North Alignment
Windsor Project	3162710.0707	1407271.6545	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Clearance Summary								
Offset Wellbore	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
FRYE FARM 7-5-32 (AWB)	Frye Farms	13.83	589.56	589.56	11.51	589.56	5.88	603.55
FRYE FARMS #5	Frye Farms	15.91	1046.59	7335.07	13.59	1046.59	6.72	1113.00
FRYE FARMS #7	Frye Farms	15.98	1000.00	7870.61	13.72	849.61	3.20	12217.72
FRYE FARMS #8 (Rev 1)	Frye Farms	32.07	1000.00	12137.57	29.81	849.61	6.44	12168.51
FRYE FARMS #8	Frye Farms	32.07	1000.00	7648.52	29.81	849.61	6.44	12168.51
FRYE FARMS #9-5-32 (AWB)	Frye Farms	43.57	458.23	458.23	41.63	472.32	20.35	669.17
Frye Farms #13 (AWB)	Frye Farms Actuals	46.27	271.32	11794.19	44.93	291.87	8.92	12168.51
FRYE FARMS #9-7-32 (AWB)	Frye Farms	62.02	244.30	6295.81	60.47	244.30	38.52	373.89
W Frye Farms #9 (AWB)	Frye Farms Actuals	63.87	1000.00	11491.59	61.62	1000.00	9.48	12135.70
FRYE FARMS #1	Frye Farms	79.70	1115.14	7575.34	77.27	1115.14	25.83	7887.02
Frye Farms #10 (AWB)	Frye Farms Actuals	80.57	14.00	11997.13	79.07	685.57	12.63	12135.70
FRYE FARMS #11	Frye Farms	95.94	1000.00	11956.76	93.67	849.61	16.76	12201.32
FRYE FARMS #12	Frye Farms	111.86	1000.00	11959.08	109.60	849.61	19.81	12282.27



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Offset Wellbore	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
RANCHO WATER VALLEY #13 (AWB)	Rancho Water Valley	191.01	12282.27	12282.27	123.44	12282.27	2.83	12282.27
RANCHO WATER VALLEY #13	Rancho Water Valley	196.48	8076.96	12282.27	146.39	12282.27	3.74	12282.27
Pavistma South 3 #1-6-32-090-4-N H (AWB)	Pavistma South	219.79	7208.33	7208.33	213.64	7208.33	35.22	7247.25
RANCHO WATER VALLEY #9	Rancho Water Valley	313.85	12282.27	12282.27	263.54	12282.27	6.24	12282.27
RANCHO WATER VALLEY #12	Rancho Water Valley	330.93	12282.27	12282.27	143.32	8197.20	1.75	8197.20
RANCHO WATER VALLEY #8	Rancho Water Valley	396.25	12282.27	12282.27	366.78	12282.27	13.44	12282.27
RANCHO WATER VALLEY #11	Rancho Water Valley	489.35	12282.27	12282.27	430.82	12282.27	8.36	12279.02
RANCHO WATER VALLEY 11 #7-7-33-270-6-C H (AWB)	Rancho Water Valley	540.79	9699.55	12282.27	386.71	8247.91	3.35	8247.91
Pavistma South 2 #1-5-32-090-4-C H (AWB)	Pavistma South	553.44	7135.74	7135.74	545.70	7135.74	69.24	7230.85
RANCHO WATER VALLEY #10	Rancho Water Valley	657.86	12282.27	12282.27	598.59	12282.27	11.10	12282.27
Pavistma South 1 #1-5-32-090-4-N H (AWB)	Pavistma South	697.78	7066.81	7066.81	689.76	7066.81	81.37	7263.66
Pavistma South 4 #1-7-32-090-4-C H (AWB)	Pavistma South	761.64	7263.66	7263.66	575.80	7329.27	4.06	7362.08
Pavistma South 5 #1-8-32-090-4-N H (AWB)	Pavistma South	916.05	7375.02	7375.02	711.56	7394.89	4.47	7444.10
RANCHO WATER VALLEY #7 REV 1	Rancho Water Valley	1068.79	12282.27	12282.27	1009.34	12282.27	17.98	12282.27
RANCHO WATER VALLEY #7	Rancho Water Valley	1068.82	12282.27	12282.27	1009.38	12282.27	17.98	12282.27
RANCHO WATER VALLEY #6	Rancho Water Valley	1229.60	12282.27	12282.27	1170.05	12282.27	20.65	12282.27
RANCHO WATER VALLEY #6 REV 1	Rancho Water Valley	1229.64	12282.27	12282.27	1170.09	12282.27	20.65	12282.27
PAVISTMA #6	Pavistma	1331.02	6922.77	6922.77	1284.37	6935.57	28.29	7050.40
PAVISTMA #7 (AWB)	Pavistma	1519.71	11521.47	11521.47	1107.39	11955.26	3.65	11971.66

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Offset Wellbore	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
PAVISTMA #7	Pavistma	1550.63	11955.61	11955.61	1417.84	11971.66	11.64	12053.68
RANCHO WATER VALLEY #4	Rancho Water Valley	1560.76	12282.27	12282.27	1365.52	8344.84	7.99	8344.84
PAVISTMA #8 (Rev-05-06-14)	Pavistma	1703.83	11955.56	11955.56	1570.00	11971.66	12.67	12086.49
PAVISTMA #8	Pavistma	1744.07	6902.76	6902.76	1697.56	6913.00	36.69	7165.23
RANCHO WATER VALLEY #2-6-4 (AWB)	Rancho Water Valley	1823.04	11055.32	11055.32	1736.06	11055.32	20.93	11118.64
RANCHO WATER VALLEY 2-8-4 (AWB)	Rancho Water Valley	1850.07	12282.27	12282.27	1784.82	12282.27	28.35	12282.27
PAVISTMA #9 (Rev 05-06-14)	Pavistma	2031.88	11959.75	11959.75	1897.92	11988.07	15.05	12152.11
PAVISTMA #9	Pavistma	2073.22	6902.76	6902.76	2026.51	6919.17	42.70	7313.00
PAVISTMA #10 (AWB)	Pavistma	2161.70	11715.67	11715.67	1739.34	11971.66	5.09	12004.47
PAVISTMA #10	Pavistma	2208.52	11960.23	11960.23	2075.12	11988.07	16.39	12201.32
RANCHO WATER VALLEY #5	Rancho Water Valley	2219.68	12282.27	12282.27	2024.56	8277.88	11.37	8277.88
PAVISTMA #11 (Rev 05-06-14)	Pavistma	2363.62	11961.18	11961.18	2229.56	11988.07	17.42	12234.13
HILLSIDE #17	Hillside	2365.63	11961.18	11961.18	2255.63	11971.66	21.48	12053.68
PAVISTMA #11	Pavistma	2402.74	6903.42	6903.42	2355.86	6919.17	48.40	7558.93
PAVISTMA 11-32 (AWB)	Pavistma (Anadarko)	2513.49	6230.19	6230.19	2485.91	6230.19	90.95	6279.40
RANCHO WATER VALLEY #3-9-4 (AWB)	Rancho Water Valley	2538.44	12282.27	12282.27	2474.42	12282.27	39.65	12282.27