

Extraction Oil & Gas (Wattenberg)

Location	DJ Basin	Slot	DT-Habitat C3-5-6
Field	Wattenberg	Well	DT-Habitat C3-5-6
Installation	Downtown	Wellbore	DT-Habitat C3-5-6 (PWB)

Scale 1 cm = 800 ft

East (Feet) ->

-9600 -8000 -6400 -4800 -3200 -1600 0 1600

1600

<- North(Feet)

Scale 1 cm = 800 ft

0

-1600

-3200

Surface 177.15 S 149.18 E

dt- habitat c3-5-6

dt- habitat c3-5-6 begin

Scale 1 cm = 400 ft

<- True Vertical Depth (Feet)

-800

0

800

1600

2400

3200

4000

4800

5600

6400

7200

8000

8800

Tie on - 0.00 Inc, 16.00 MD, 16.00 TVD, -0.00 VS

9 5/8in Surface Casing

3DS Kick off Point - 0.00 Inc, 2100.00 MD, 2100.00 TVD, -0.00 VS

End of Build - 15.61 Inc, 2880.30 MD, 2870.69 TVD, 67.65 VS

End of Hold - 15.61 Inc, 7055.59 MD, 6892.05 TVD, 787.14 VS

7.0in Intermediate Casing

4 1/2in Production Liner

dt- habitat c3-5-6 begin

dt- habitat c3-5-6

S/C Kick off Point - 90.00 Inc, 8078.60 MD, 7490.00 TVD, 1508.93 VS

T.D. & End of Hold - 7490.00 TVD, 1068.64 S 8332.99 W

Created by	admin
Date plotted	17-Feb-2015
Plot reference is DT-Habitat C3-5-6 (PWB). Ref wellpath is DT-Habitat C3-5-6 (PWP#1). Coordinates are in Feet reference Installation Centre. True Vertical Depths are reference Rig Datum. Measured Depths are reference Rig Datum. Rig Datum: Planned Datum #1 Rig Datum to Mean Sea Level: 4660.39 ft. Plot North is aligned to GRID North.	

Scale 1 cm = 400 ft

Vertical Section (Feet) ->

Azimuth 264.00 with reference 177.15 S, 149.18 E from Installation Centre



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SYSDRILL
Well Design Combined Report
Wellbore: DT-Habitat C3-5-6 (PWB)



Wellhead Details							
Name	Northing	Easting	Latitude	Longitude	North	East	Elevation Above Inst.
DT-Habitat C3-5-6	1402516.9223	3227217.5936	40.43544000	-104.68373000	177.15S	149.18E	1.34

Declination			
Date	Source	Time	
30-Jan-2013	IGRF Model [1900.0-2015.0]	10:11	

Site Details				
Name	Northing	Easting	Coord System Name	North Alignment
Downtown	1402694.0641	3227068.4245	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
16.00	0.00	0.000	16.00	0.00N	0.00E		0.00	1402516.92	3227217.59
2100.00	0.00	213.830	2100.00	0.00N	0.00E	==>	0.00	1402516.92	3227217.59
15167.39	90.00	271.990	7490.00	891.49S	8482.17W	==>	8528.89	1401625.47	3218735.77

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Automatic Station Comment	
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00		
16.00	0.00	0.000	16.00	0.00N	0.00E	==>	0.00		
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00		
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00		
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00		
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00		
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00		
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00		
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00		
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00		
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00		
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00		
1100.00	0.00	0.000	1100.00	0.00N	0.00E	==>	0.00		
1200.00	0.00	0.000	1200.00	0.00N	0.00E	==>	0.00		
1300.00	0.00	0.000	1300.00	0.00N	0.00E	==>	0.00		
1400.00	0.00	0.000	1400.00	0.00N	0.00E	==>	0.00		
1500.00	0.00	0.000	1500.00	0.00N	0.00E	==>	0.00		
1600.00	0.00	0.000	1600.00	0.00N	0.00E	==>	0.00		
1700.00	0.00	0.000	1700.00	0.00N	0.00E	==>	0.00		
1800.00	0.00	0.000	1800.00	0.00N	0.00E	==>	0.00		
1900.00	0.00	0.000	1900.00	0.00N	0.00E	==>	0.00		
2000.00	0.00	0.000	2000.00	0.00N	0.00E	==>	0.00		
2100.00	0.00	213.830	2100.00	0.00N	0.00E	==>	0.00		
2200.00	2.00	213.830	2199.98	1.45S	0.97W	2.00	1.12		
2300.00	4.00	213.830	2299.84	5.80S	3.89W	2.00	4.47		
2400.00	6.00	213.830	2399.45	13.04S	8.74W	2.00	10.05		
2500.00	8.00	213.830	2498.70	23.16S	15.52W	2.00	17.86		
2600.00	10.00	213.830	2597.47	36.15S	24.23W	2.00	27.88		
2700.00	12.00	213.830	2695.62	52.00S	34.86W	2.00	40.10		
2800.00	14.00	213.830	2793.06	70.69S	47.38W	2.00	54.51		
2900.00	15.61	213.830	2889.66	92.13S	61.75W	==>	71.05		
3000.00	15.61	213.830	2985.97	114.48S	76.73W	==>	88.28		
3100.00	15.61	213.830	3082.29	136.82S	91.71W	==>	105.51		
3200.00	15.61	213.830	3178.60	159.17S	106.69W	==>	122.74		
3300.00	15.61	213.830	3274.92	181.51S	121.67W	==>	139.97		
3400.00	15.61	213.830	3371.23	203.86S	136.65W	==>	157.21		
3500.00	15.61	213.830	3467.54	226.21S	151.63W	==>	174.44		
3600.00	15.61	213.830	3563.86	248.55S	166.61W	==>	191.67		
3700.00	15.61	213.830	3660.17	270.90S	181.58W	==>	208.90		
3800.00	15.61	213.830	3756.48	293.25S	196.56W	==>	226.14		
3900.00	15.61	213.830	3852.80	315.59S	211.54W	==>	243.37		
4000.00	15.61	213.830	3949.11	337.94S	226.52W	==>	260.60		
4100.00	15.61	213.830	4045.42	360.28S	241.50W	==>	277.83		

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 4660.4ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 264.000 degrees
Bottom hole distance is 8528.89 Feet on azimuth 264.00 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 17-Feb-2015



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SYSDRILL
Well Design Combined Report
Wellbore: DT-Habitat C3-5-6 (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Automatic Station Comment
4200.00	15.61	213.830	4141.74	382.63S	256.48W	==>	295.07	
4300.00	15.61	213.830	4238.05	404.98S	271.46W	==>	312.30	
4400.00	15.61	213.830	4334.36	427.32S	286.44W	==>	329.53	
4500.00	15.61	213.830	4430.68	449.67S	301.41W	==>	346.76	
4600.00	15.61	213.830	4526.99	472.02S	316.39W	==>	363.99	
4700.00	15.61	213.830	4623.30	494.36S	331.37W	==>	381.23	
4800.00	15.61	213.830	4719.62	516.71S	346.35W	==>	398.46	
4900.00	15.61	213.830	4815.93	539.05S	361.33W	==>	415.69	
5000.00	15.61	213.830	4912.24	561.40S	376.31W	==>	432.92	
5100.00	15.61	213.830	5008.56	583.75S	391.29W	==>	450.16	
5200.00	15.61	213.830	5104.87	606.09S	406.27W	==>	467.39	
5300.00	15.61	213.830	5201.18	628.44S	421.25W	==>	484.62	
5400.00	15.61	213.830	5297.50	650.79S	436.22W	==>	501.85	
5500.00	15.61	213.830	5393.81	673.13S	451.20W	==>	519.09	
5600.00	15.61	213.830	5490.12	695.48S	466.18W	==>	536.32	
5700.00	15.61	213.830	5586.44	717.82S	481.16W	==>	553.55	
5800.00	15.61	213.830	5682.75	740.17S	496.14W	==>	570.78	
5900.00	15.61	213.830	5779.06	762.52S	511.12W	==>	588.01	
6000.00	15.61	213.830	5875.38	784.86S	526.10W	==>	605.25	
6100.00	15.61	213.830	5971.69	807.21S	541.08W	==>	622.48	
6200.00	15.61	213.830	6068.01	829.56S	556.05W	==>	639.71	
6300.00	15.61	213.830	6164.32	851.90S	571.03W	==>	656.94	
6400.00	15.61	213.830	6260.63	874.25S	586.01W	==>	674.18	
6500.00	15.61	213.830	6356.95	896.59S	600.99W	==>	691.41	
6600.00	15.61	213.830	6453.26	918.94S	615.97W	==>	708.64	
6700.00	15.61	213.830	6549.57	941.29S	630.95W	==>	725.87	
6800.00	15.61	213.830	6645.89	963.63S	645.93W	==>	743.10	
6900.00	15.61	213.830	6742.20	985.98S	660.91W	==>	760.34	
7000.00	15.61	213.830	6838.51	1008.33S	675.88W	==>	777.57	
7100.00	17.69	223.910	6934.61	1030.57S	692.22W	8.00	796.14	
7200.00	23.66	239.200	7028.20	1051.82S	720.03W	8.00	826.02	
7300.00	30.53	248.270	7117.21	1071.54S	760.92W	8.00	868.75	
7400.00	37.81	254.190	7199.91	1089.32S	814.10W	8.00	923.49	
7500.00	45.31	258.420	7274.70	1104.84S	878.52W	8.00	989.18	
7600.00	52.92	261.660	7340.11	1117.78S	952.93W	8.00	1064.54	
7700.00	60.61	264.310	7394.88	1127.90S	1035.89W	8.00	1148.10	
7800.00	68.35	266.590	7437.94	1135.00S	1125.77W	8.00	1238.23	
7900.00	76.11	268.630	7468.45	1138.93S	1220.84W	8.00	1333.19	
8000.00	83.88	270.530	7485.81	1139.63S	1319.23W	8.00	1431.12	
8100.00	90.00	271.990	7490.00	1137.16S	1419.05W	==>	1530.13	
8200.00	90.00	271.990	7490.00	1133.68S	1518.99W	==>	1629.16	
8300.00	90.00	271.990	7490.00	1130.20S	1618.93W	==>	1728.19	
8400.00	90.00	271.990	7490.00	1126.73S	1718.87W	==>	1827.22	
8500.00	90.00	271.990	7490.00	1123.25S	1818.81W	==>	1926.25	
8600.00	90.00	271.990	7490.00	1119.78S	1918.75W	==>	2025.28	
8700.00	90.00	271.990	7490.00	1116.30S	2018.69W	==>	2124.30	
8800.00	90.00	271.990	7490.00	1112.82S	2118.63W	==>	2223.33	
8900.00	90.00	271.990	7490.00	1109.35S	2218.57W	==>	2322.36	
9000.00	90.00	271.990	7490.00	1105.87S	2318.51W	==>	2421.39	
9100.00	90.00	271.990	7490.00	1102.40S	2418.45W	==>	2520.42	
9200.00	90.00	271.990	7490.00	1098.92S	2518.39W	==>	2619.45	
9300.00	90.00	271.990	7490.00	1095.44S	2618.33W	==>	2718.48	
9400.00	90.00	271.990	7490.00	1091.97S	2718.27W	==>	2817.51	
9500.00	90.00	271.990	7490.00	1088.49S	2818.21W	==>	2916.54	
9600.00	90.00	271.990	7490.00	1085.01S	2918.14W	==>	3015.56	
9700.00	90.00	271.990	7490.00	1081.54S	3018.08W	==>	3114.59	
9800.00	90.00	271.990	7490.00	1078.06S	3118.02W	==>	3213.62	
9900.00	90.00	271.990	7490.00	1074.59S	3217.96W	==>	3312.65	
10000.00	90.00	271.990	7490.00	1071.11S	3317.90W	==>	3411.68	
10100.00	90.00	271.990	7490.00	1067.63S	3417.84W	==>	3510.71	
10200.00	90.00	271.990	7490.00	1064.16S	3517.78W	==>	3609.74	
10300.00	90.00	271.990	7490.00	1060.68S	3617.72W	==>	3708.77	

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Vertical Section is from 0.00N 0.00E on azimuth 264.000 degrees
Bottom hole distance is 8528.89 Feet on azimuth 264.00 degrees from Wellhead
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Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Automatic Station Comment
10400.00	90.00	271.990	7490.00	1057.21S	3717.66W	==>	3807.80	
10500.00	90.00	271.990	7490.00	1053.73S	3817.60W	==>	3906.82	
10600.00	90.00	271.990	7490.00	1050.25S	3917.54W	==>	4005.85	
10700.00	90.00	271.990	7490.00	1046.78S	4017.48W	==>	4104.88	
10800.00	90.00	271.990	7490.00	1043.30S	4117.42W	==>	4203.91	
10900.00	90.00	271.990	7490.00	1039.83S	4217.36W	==>	4302.94	
11000.00	90.00	271.990	7490.00	1036.35S	4317.30W	==>	4401.97	
11100.00	90.00	271.990	7490.00	1032.87S	4417.24W	==>	4501.00	
11200.00	90.00	271.990	7490.00	1029.40S	4517.18W	==>	4600.03	
11300.00	90.00	271.990	7490.00	1025.92S	4617.12W	==>	4699.06	
11400.00	90.00	271.990	7490.00	1022.45S	4717.06W	==>	4798.09	
11500.00	90.00	271.990	7490.00	1018.97S	4817.00W	==>	4897.11	
11600.00	90.00	271.990	7490.00	1015.49S	4916.94W	==>	4996.14	
11700.00	90.00	271.990	7490.00	1012.02S	5016.88W	==>	5095.17	
11800.00	90.00	271.990	7490.00	1008.54S	5116.82W	==>	5194.20	
11900.00	90.00	271.990	7490.00	1005.06S	5216.75W	==>	5293.23	
12000.00	90.00	271.990	7490.00	1001.59S	5316.69W	==>	5392.26	
12100.00	90.00	271.990	7490.00	998.11S	5416.63W	==>	5491.29	
12200.00	90.00	271.990	7490.00	994.64S	5516.57W	==>	5590.32	
12300.00	90.00	271.990	7490.00	991.16S	5616.51W	==>	5689.35	
12400.00	90.00	271.990	7490.00	987.68S	5716.45W	==>	5788.37	
12500.00	90.00	271.990	7490.00	984.21S	5816.39W	==>	5887.40	
12600.00	90.00	271.990	7490.00	980.73S	5916.33W	==>	5986.43	
12700.00	90.00	271.990	7490.00	977.26S	6016.27W	==>	6085.46	
12800.00	90.00	271.990	7490.00	973.78S	6116.21W	==>	6184.49	
12900.00	90.00	271.990	7490.00	970.30S	6216.15W	==>	6283.52	
13000.00	90.00	271.990	7490.00	966.83S	6316.09W	==>	6382.55	
13100.00	90.00	271.990	7490.00	963.35S	6416.03W	==>	6481.58	
13200.00	90.00	271.990	7490.00	959.88S	6515.97W	==>	6580.61	
13300.00	90.00	271.990	7490.00	956.40S	6615.91W	==>	6679.63	
13400.00	90.00	271.990	7490.00	952.92S	6715.85W	==>	6778.66	
13500.00	90.00	271.990	7490.00	949.45S	6815.79W	==>	6877.69	
13600.00	90.00	271.990	7490.00	945.97S	6915.73W	==>	6976.72	
13700.00	90.00	271.990	7490.00	942.50S	7015.67W	==>	7075.75	
13800.00	90.00	271.990	7490.00	939.02S	7115.61W	==>	7174.78	
13900.00	90.00	271.990	7490.00	935.54S	7215.55W	==>	7273.81	
14000.00	90.00	271.990	7490.00	932.07S	7315.49W	==>	7372.84	
14100.00	90.00	271.990	7490.00	928.59S	7415.43W	==>	7471.87	
14200.00	90.00	271.990	7490.00	925.12S	7515.36W	==>	7570.89	
14300.00	90.00	271.990	7490.00	921.64S	7615.30W	==>	7669.92	
14400.00	90.00	271.990	7490.00	918.16S	7715.24W	==>	7768.95	
14500.00	90.00	271.990	7490.00	914.69S	7815.18W	==>	7867.98	
14600.00	90.00	271.990	7490.00	911.21S	7915.12W	==>	7967.01	
14700.00	90.00	271.990	7490.00	907.73S	8015.06W	==>	8066.04	
14800.00	90.00	271.990	7490.00	904.26S	8115.00W	==>	8165.07	
14900.00	90.00	271.990	7490.00	900.78S	8214.94W	==>	8264.10	
15000.00	90.00	271.990	7490.00	897.31S	8314.88W	==>	8363.13	
15100.00	90.00	271.990	7490.00	893.83S	8414.82W	==>	8462.15	
15167.39	90.00	271.990	7490.00	891.49S	8482.17W	==>	8528.89	

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4660.4ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 264.000 degrees
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Prepared by Integrated Petroleum Technologies, Inc.
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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]
13 1/2	16.00	16.00	0.00N	0.00E	1000.00	1000.00	0.00N	0.00E
8 3/4	1000.00	1000.00	0.00N	0.00E	8078.00	7490.00	1137.92S	1397.06W
6 1/8	8078.00	7490.00	1137.92S	1397.06W	15167.39	7490.00	891.49S	8482.17W

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	16.00	16.00	0.00N	0.00E	1000.00	1000.00	0.00N	0.00E
7.0in Intermediate Casing	16.00	16.00	0.00N	0.00E	8078.00	7490.00	1137.92S	1397.06W
4 1/2in Production Liner	7878.00	7462.84	1138.34S	1199.57W	15167.39	7490.00	891.49S	8482.17W

Targets								
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
dt- habitat c3-5-6	891.49S	8482.17W	7490.00	40.43320338	-104.71422737	1401625.47	3218735.77	22-Jan-2015
dt- habitat c3-5-6 begin	1137.90S	1397.66W	7490.00	40.43235193	-104.68878795	1401379.07	3225819.99	22-Jan-2015

Survey Tool Program						
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model	
293637	Planned	15167.39	7490.00	WdW Rate Gyro	Standard	

Notes

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Vertical Section is from 0.00N 0.00E on azimuth 264.000 degrees
Bottom hole distance is 8528.89 Feet on azimuth 264.00 degrees from Wellhead
Calculation method uses Minimum Curvature method
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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
DT-Habitat C3-5-6 (PWB)	12-Aug-2014	17-Feb-2015

Well		
Name	Government ID	Last Revised
DT-Habitat C3-5-6		12-Aug-2014

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
DT-Habitat C3-5-6	1402516.9223	3227217.5936	40.43544000	-104.68373000	177.15S	149.18E

Installation				
Name	Easting	Northing	Coord System Name	North Alignment
Downtown	3227068.4245	1402694.0641	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Field				
Name	Easting	Northing	Coord System Name	North Alignment
Wattenberg	3211772.6087	1400656.3763	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Clearance Summary							
Offset WellName	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
DT-Lopez #1-5-6	33.07	699.77	15167.39	31.11	716.00	10.62	15167.39
ERBES #5-2H5	77.07	3469.40	3469.40	57.25	3477.29	3.88	3493.69
Erbes #5-2H5	77.07	3469.40	3469.40	57.25	3477.29	3.88	3493.69
DT-Habitat #2-5-6	114.82	3838.18	12987.66	105.60	3854.58	4.83	15091.46
DT-Habitat #2-5-6	122.46	3863.07	15167.39	113.08	3887.39	4.72	15167.39
DT-Habitat #3-5-6	125.59	6565.98	14293.93	114.07	6565.98	10.87	6594.08
DT-Habitat #3-5-6	125.59	6565.98	12155.11	81.39	6577.68	2.83	6594.08
DT-Habitat #5-5-6	151.61	1231.80	15149.09	148.96	1246.31	6.12	15167.39
DT-Habitat #5-5-6	151.61	1331.66	15149.09	148.80	1344.74	6.12	15167.39
DT-Habitat #5-5-6	151.89	245.66	14923.66	150.74	245.66	15.40	15025.84
DT-Habitat #5-5-6	153.11	16.00	12653.23	152.15	16.00	4.18	12745.66
DT-Habitat #5-5-6	153.11	16.00	12653.23	152.15	16.00	4.18	12745.66
DT-Habitat #4-5-6	153.23	1377.55	15160.18	150.34	1377.55	4.73	14810.36
DT-Habitat #4-5-6	153.24	1498.53	10276.01	150.15	1508.78	4.78	15167.39
DT-Habitat #4-5-6	156.12	342.26	15039.79	154.89	342.26	23.79	15167.39
DT-Habitat #4-5-6	156.12	342.26	15132.23	153.89	376.89	4.13	13270.56
DT-Habitat #2-5-6	163.34	1079.86	15075.06	161.82	1079.86	11.26	15091.46
DT-Habitat #1-5-6	175.12	249.43	13323.20	173.75	294.87	8.97	15091.46
DT-Habitat #1-5-6	175.35	295.93	14969.10	174.16	295.93	16.89	15167.39
DT-Habitat #1-5-6	177.63	1149.46	13016.33	175.13	1180.70	7.46	15091.46
DT-Habitat #1-5-6	177.63	1149.46	15167.39	175.11	983.85	7.25	15167.39
Warnoco 6-2-6	210.13	11619.04	11619.04	147.83	11597.36	3.25	11564.56

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Clearance Summary							
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DT-Forbes #1-5-6	229.90	1000.25	15096.08	227.49	983.85	12.65	15167.39
DT-Forbes C6-5-6	230.07	975.32	15091.46	227.56	983.85	13.32	15167.39
DT-Martinez #3-5-6	230.85	1025.07	15110.54	228.43	983.85	10.64	15167.39
DT-Forbes #2-5-6	231.35	951.04	15081.63	228.99	983.85	14.72	15167.39
DT-Martinez C5-5-6	232.83	1082.27	15118.05	230.30	983.85	9.13	15167.39
DT-Forbes #3-5-6	233.72	925.31	15064.23	231.40	951.04	16.85	15167.39
DT-Martinez #2-5-6	235.93	1262.72	15124.37	233.23	1328.34	8.81	15167.39
DT-Forbes C7-5-6	237.15	901.83	15058.65	234.76	916.00	17.65	15167.39
DT-Martinez #1-5-6	239.75	1377.55	15140.67	236.86	1416.00	7.16	15167.39
DT-Forbes #4-5-6	241.58	875.17	875.17	239.35	875.17	87.84	1616.00
DT-Habitat C4-5-6	244.04	1496.01	15143.52	240.96	1525.19	5.37	15167.39
DT-Forbes C8-5-6	246.98	849.68	849.68	244.68	852.61	91.56	1623.61
DT-Luther #1-5-6	253.28	824.49	824.49	251.12	824.49	95.91	1590.80
DT-Forbes #5-5-6	256.90	148.28	148.28	255.71	148.28	143.98	983.85
DT-Forbes #5-5-6	256.90	314.28	314.28	255.15	314.28	75.93	6118.36
DT-Forbes #5-5-6	256.90	16.00	16.00	255.55	98.02	68.71	6101.96
DT-Forbes #5-5-6	256.90	16.00	16.00	255.52	98.02	68.71	6101.96
DT-Forbes #5-5-6	256.90	16.00	16.00	255.55	98.02	68.71	6101.96
DT-Forbes #5-5-6	256.90	16.00	16.00	255.55	98.02	68.71	6101.96
DT-Forbes #5-5-6	256.90	16.00	16.00	255.55	98.02	68.71	6101.96
DT-Forbes #5-5-6	256.90	16.00	16.00	255.55	98.02	68.71	6101.96
DT-Forbes #5-5-6	256.90	16.00	16.00	255.86	98.02	132.54	967.44
DT-Forbes #5-5-6	256.90	16.00	16.00	255.55	98.02	68.71	6101.96
DT-Habitat C1-5-6	258.14	1175.14	15167.39	255.62	1175.14	7.25	15167.39
DT-Lopez #2-5-6	265.80	1200.33	15167.39	263.24	1200.33	8.90	15167.39
Gas 2-2-5	285.92	8996.62	8996.62	218.04	9038.31	3.90	9116.00
CS-Longmeadow #2-1-12	721.92	15167.39	15167.39	687.96	15167.39	21.26	15167.39
W Mcelroy #41-5	833.80	2116.00	2116.00	819.10	2263.38	43.36	4445.13
CS-Longmeadow #1-1-12	967.89	15167.39	15167.39	933.61	15167.39	28.23	15167.39
CS-Kinkade C8-1-12	1038.73	15167.39	15167.39	1004.82	15167.39	30.63	15167.39
Namara 3-7-32	1094.54	819.81	8357.98	1090.51	869.02	38.68	8595.40
Joz A 5-7-32	1123.97	2100.00	2100.00	1109.45	2116.00	68.35	3969.41
Thermo 5-5-32	1126.77	19.39	19.39	1125.13	130.83	132.49	4281.09
CS-Kinkade #5-1-12	1254.06	15167.39	15167.39	1188.92	15167.39	19.25	15167.39
CS-Kinkade #5-1-12	1254.66	15167.39	15167.39	1220.17	15167.39	36.38	15167.39
CS-Kinkade #5-1-12	1261.24	15167.39	15167.39	1243.55	15167.39	71.33	15167.39
IG-Lextron 1-32-32	1418.63	6462.85	8120.50	1399.24	6479.25	53.43	8595.40
IG-JBS C4-32-32	1530.48	6620.09	8283.72	1510.81	6620.09	50.04	8775.84
CS-Kinkade #4-1-12	1560.56	15167.39	15167.39	1526.33	15167.39	45.59	15167.39
IG-JBS C3-32-32	1625.83	8907.08	8907.08	1595.66	8923.48	50.37	9382.80

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Clearance Summary							
Offset WellName	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
IG-JBS 5-32-32	1634.80	6528.47	8432.75	1615.04	6528.47	53.69	8972.69
IG-JBS C2-32-32	1649.74	9533.56	9533.56	1618.19	9546.84	49.91	9940.54
CS-Kinkade C7-1-12	1669.69	15167.39	15167.39	1635.96	15167.39	49.50	15167.39
IG-JBS 4-32-32	1690.47	8746.63	8746.63	1661.37	8759.44	53.84	9267.97
Island Grove 2-32	1702.33	9060.87	9060.87	1672.55	9071.12	53.40	9563.24
IG-JBS 2-32-32	1714.58	9377.59	9377.59	1684.40	9399.20	53.63	9825.71
IG-JBS 1-32-32	1725.39	9687.11	9687.11	1694.20	9694.48	52.90	10137.39
IG-C Street C8-31-31	1733.71	15167.39	15167.39	1614.21	15167.39	14.51	15167.39
IG-Guadeloupe C1-32-32	1754.36	10156.94	10156.94	1718.71	10156.94	48.87	10367.05
IG-Guadeloupe 3-32-32	1811.91	10001.25	10001.25	1778.28	10006.16	52.83	10350.65
IG-Guadeloupe 2-32-32	1821.72	10317.84	10317.84	1785.64	10317.84	50.37	10465.48
Arnold #1	1849.34	6036.34	6036.34	1818.42	6134.77	53.43	7184.64
CS-Kinkade #3-1-12	1874.98	15167.39	15167.39	1840.98	15167.39	55.14	15167.39
IG-C Street 1-31-31	1928.22	15167.39	15167.39	1810.36	15167.39	16.36	15167.39
4H 5-7-31	1986.83	12384.93	12384.93	1868.94	12368.36	16.70	12171.51
CS-Kinkade #2-1-12	2196.76	15167.39	15167.39	2162.92	15167.39	64.93	15167.39
Island Grove 2-32	2227.69	9038.31	9038.31	2173.84	9071.12	37.90	9776.50
IG-Bucklin 3-31-31	2261.06	15167.39	15167.39	2141.85	15167.39	18.97	15167.39
CS-Kinkade C6-1-12	2318.54	15167.39	15167.39	2285.07	15167.39	69.28	15167.39
IG-Bucklin C7 31-31	2396.93	15167.39	15167.39	2276.19	15167.39	19.85	15167.39
CS-Kinkade #1-1-12	2521.15	15167.39	15167.39	2487.42	15167.39	74.75	15167.39