

Minimum Radius of Curvature

API: 05-123-51147 **Well: Purcell 31U-20-03** **WH Lat : 40.452224**
Operator: Highpoint Resources **Area: DJ** **Long : -104.272436**
Rig: TD: 18,045' **Type: U-Lateral** **Magnetic Declination: 7.31**
Plane of Proposal: 90.00

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
0.00	0.00	0.00		0.0	0.00	0.00	0.00	0.00	0.00			
208	0.20	146.20	208	208.0	0.20	-0.30	0.20	0.36	146.20	0.10	0.10	70.29
300	2.40	118.90	92	300.0	1.98	-1.37	1.98	2.40	124.63	2.42	2.39	-29.67
392	5.30	129.40	92	391.8	6.95	-4.99	6.95	8.56	125.71	3.23	3.15	11.41
512	8.60	125.70	120	510.9	18.52	-13.75	18.52	23.07	126.59	2.77	2.75	-3.08
643	11.40	129.20	131	639.9	36.51	-27.65	36.51	45.80	127.14	2.19	2.14	2.67
731	13.30	132.50	88	725.8	50.72	-39.99	50.72	64.58	128.26	2.30	2.16	3.75
818	15.80	128.90	87	810.0	67.31	-54.19	67.31	86.42	128.83	3.05	2.87	-4.14
906	17.40	130.30	88	894.4	86.67	-70.22	86.67	111.55	129.01	1.87	1.82	1.59
993	17.40	129.10	87	977.4	106.69	-86.84	106.69	137.57	129.14	0.41	0.00	-1.38
1081	18.40	124.30	88	1061.1	128.38	-102.97	128.38	164.57	128.73	2.02	1.14	-5.45
1170	19.60	123.90	89	1145.3	152.37	-119.21	152.37	193.46	128.04	1.36	1.35	-0.45
1260	21.30	126.50	90	1229.6	178.04	-137.35	178.04	224.87	127.65	2.14	1.89	2.89
1349	23.10	127.10	89	1312.0	204.96	-157.50	204.96	258.49	127.54	2.04	2.02	0.67
1437	25.20	127.70	88	1392.3	233.56	-179.37	233.56	294.49	127.52	2.40	2.39	0.68
1524	27.50	124.20	87	1470.2	264.83	-201.99	264.83	333.07	127.33	3.19	2.64	-4.02
1612	29.00	125.10	88	1547.8	299.09	-225.68	299.09	374.68	127.04	0.00	1.70	1.02
1699	30.10	123.90	87	1623.4	334.45	-249.98	334.45	417.55	126.78	0.00	1.26	-1.38
1747	29.40	123.20	48	1665.1	354.30	-263.14	354.30	441.33	126.60	0.00	-1.46	-1.46
1850	29.40	126.98	103	1754.9	395.66	-292.20	395.66	491.86	126.45	0.00	0.00	3.67
1945	30.54	130.74	95	1837.2	432.58	-321.98	432.58	539.25	126.66	0.00	1.20	3.96
2040	32.73	133.01	95	1918.0	469.65	-355.25	469.65	588.88	127.10	0.00	2.31	2.39
2134	34.81	134.07	94	1996.2	507.51	-391.25	507.51	640.82	127.63	0.00	2.21	1.13
2229	37.20	134.86	95	2073.0	547.36	-430.38	547.36	696.29	128.18	0.00	2.52	0.83
2324	39.01	133.84	95	2147.8	589.29	-471.35	589.29	754.60	128.66	0.00	1.91	-1.07
2419	41.48	135.32	95	2220.3	632.98	-514.44	632.98	815.66	129.10	0.00	2.60	1.56
2513	42.97	136.53	94	2289.9	676.91	-559.82	676.91	878.42	129.59	0.00	1.59	1.29
2608	42.06	136.88	95	2359.9	720.94	-606.55	720.94	942.15	130.07	0.00	-0.96	0.37
2703	40.83	136.28	95	2431.1	764.16	-652.22	764.16	1004.65	130.48	0.00	-1.29	-0.63
2797	42.65	136.25	94	2501.3	807.42	-697.44	807.42	1066.93	130.82	0.00	1.94	-0.03
2891	41.52	136.10	94	2571.0	851.04	-742.89	851.04	1129.67	131.12	0.00	-1.20	-0.16
2986	44.18	135.24	95	2640.7	896.19	-789.09	896.19	1194.08	131.36	0.00	2.80	-0.91
3081	43.10	134.90	95	2709.4	942.49	-835.51	942.49	1259.51	131.56	0.00	-1.14	-0.36
3176	42.31	134.51	95	2779.2	988.29	-880.83	988.29	1323.85	131.71	0.00	-0.83	-0.41
3271	40.62	133.72	95	2850.4	1033.44	-924.63	1033.44	1386.70	131.82	1.86	-1.78	-0.83
3365	42.08	137.51	94	2921.0	1076.84	-969.01	1076.84	1448.64	131.98	3.08	1.55	4.03
3461	39.84	137.45	96	2993.5	1119.37	-1015.39	1119.37	1511.29	132.21	2.33	-2.33	-0.06
3576	41.64	141.05	115	3080.6	1168.31	-1072.25	1168.31	1585.77	132.55	2.57	1.57	3.13
3671	42.61	140.68	95	3151.1	1208.53	-1121.68	1208.53	1648.85	132.87	1.05	1.02	-0.39
3766	41.28	140.41	95	3221.7	1248.88	-1170.71	1248.88	1711.80	133.15	1.41	0.00	-0.28
3861	45.61	139.15	95	3290.7	1291.07	-1220.56	1291.07	1776.69	133.39	4.65	0.00	-1.33
3956	47.11	139.08	95	3356.3	1336.07	-1272.53	1336.07	1845.11	133.60	1.58	0.00	-0.07
4051	47.17	138.18	95	3420.9	1382.09	-1324.79	1382.09	1914.48	133.79	0.70	0.00	-0.95
4146	47.63	138.51	95	3485.2	1428.57	-1377.04	1428.57	1984.20	133.95	0.55	0.00	0.35
4240	47.92	137.11	94	3548.4	1475.32	-1428.61	1475.32	2053.65	134.08	1.15	0.00	-1.49
4335	48.51	137.00	95	3611.7	1523.58	-1480.46	1523.58	2124.40	134.18	0.63	0.00	-0.12
4430	44.75	136.38	95	3676.9	1570.93	-1530.71	1570.93	2193.38	134.26	3.99	0.00	-0.65
4525	43.17	136.04	95	3745.3	1616.56	-1578.31	1616.56	2259.28	134.31	1.68	0.00	-0.36
4620	40.59	135.38	95	3816.0	1660.84	-1623.71	1660.84	2322.68	134.35	2.76	0.00	-0.69
4714	38.67	134.92	94	3888.4	1703.12	-1666.22	1703.12	2382.62	134.37	2.07	0.00	-0.49
4809	39.46	137.19	95	3962.1	1744.65	-1709.33	1744.65	2442.46	134.41	1.72	0.00	2.39
4904	41.58	139.49	95	4034.4	1785.65	-1755.45	1785.65	2504.02	134.51	2.73	0.00	2.42
4998	40.98	139.70	94	4105.0	1825.85	-1802.67	1825.85	2565.80	134.63	0.66	0.00	0.22
5093	38.54	138.68	95	4178.0	1865.54	-1848.66	1865.54	2626.37	134.74	2.66	0.00	-1.07
5187	41.23	138.64	94	4250.2	1905.35	-1893.92	1905.35	2686.50	134.83	2.86	0.00	-0.04
5282	39.51	138.32	95	4322.5	1946.14	-1939.99	1946.14	2747.91	134.91	1.82	0.00	-0.34
5377	40.55	135.96	95	4395.3	1987.70	-1984.76	1987.70	2808.96	134.96	1.94	0.00	-2.48
5472	40.29	133.73	95	4467.6	2031.37	-2028.19	2031.37	2870.55	134.96	1.55	0.00	-2.35

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Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5566	39.29	133.79	94	4539.8	2074.82	-2069.80	2074.82	2930.69	134.93	1.06	0.00	0.06
5661	42.18	134.59	95	4611.8	2119.25	-2113.02	2119.25	2992.67	134.92	3.09	0.00	0.84
5755	41.52	134.91	94	4681.8	2163.79	-2157.17	2163.79	3055.38	134.91	0.74	0.00	0.34
5850	43.76	137.26	95	4751.7	2208.40	-2203.53	2208.40	3119.71	134.94	2.89	0.00	2.47
5944	41.44	136.27	94	4820.9	2251.97	-2249.89	2251.97	3183.30	134.97	2.57	0.00	-1.05
6039	41.85	139.10	95	4891.9	2294.45	-2296.57	2294.45	3246.34	135.03	2.03	0.00	2.98
6133	43.82	138.38	94	4960.8	2336.60	-2344.60	2336.60	3310.12	135.10	2.16	0.00	-0.77
6228	41.52	136.23	95	5030.7	2380.24	-2391.94	2380.24	3374.45	135.14	2.87	0.00	-2.26
6323	41.21	134.59	95	5102.0	2424.31	-2436.64	2424.31	3437.22	135.15	1.19	0.00	-1.73
6417	43.19	137.56	94	5171.6	2468.07	-2482.13	2468.07	3500.34	135.16	2.99	0.00	3.16
6512	41.64	137.37	95	5241.8	2511.39	-2529.35	2511.39	3564.36	135.20	1.64	0.00	-0.20
6606	43.42	139.34	94	5311.0	2553.59	-2576.83	2553.59	3627.80	135.26	2.36	0.00	2.10
6701	41.97	137.72	95	5380.8	2596.24	-2625.11	2596.24	3692.11	135.32	1.91	0.00	-1.71
6795	42.34	137.35	94	5450.5	2638.83	-2671.65	2638.83	3755.15	135.35	0.47	0.00	-0.39
6890	41.45	141.69	95	5521.3	2680.01	-2719.86	2680.01	3818.39	135.42	3.19	0.00	4.57
6984	43.09	142.15	94	5590.8	2719.00	-2769.63	2719.00	3881.21	135.53	1.78	0.00	0.49
7078	46.03	138.65	94	5657.8	2761.07	-2820.39	2761.07	3946.91	135.61	4.07	0.00	-3.72
7173	43.91	136.94	95	5725.0	2806.15	-2870.13	2806.15	4013.99	135.65	2.57	0.00	-1.80
7268	41.02	134.27	95	5795.1	2850.98	-2915.98	2850.98	4078.11	135.65	3.58	0.00	-2.81
7362	41.21	137.56	94	5865.9	2893.97	-2960.37	2893.97	4139.91	135.65	2.31	0.00	3.50
7457	42.62	139.75	95	5936.6	2935.87	-3008.02	2935.87	4203.27	135.70	2.14	0.00	2.31
7552	43.94	134.55	95	6005.8	2980.16	-3055.70	2980.16	4268.33	135.72	4.00	0.00	-5.47
7647	50.22	123.76	95	6070.6	3034.14	-3099.23	3034.14	4337.19	135.61	10.61	0.00	-11.36
7741	53.47	116.20	94	6128.7	3098.13	-3136.01	3098.13	4408.28	135.35	7.20	0.00	-8.04
7836	59.00	108.96	95	6181.5	3171.00	-3166.15	3171.00	4481.04	134.96	8.60	0.00	-7.62
7931	68.71	103.59	95	6223.3	3252.77	-3189.84	3252.77	4555.84	134.44	11.41	0.00	-5.65
8026	79.06	98.03	95	6249.7	3342.28	-3206.82	3342.28	4631.90	133.82	12.26	0.00	-5.85
8120	89.55	92.34	94	6259.0	3435.27	-3215.21	3435.27	4705.17	133.10	12.68	0.00	-6.05
8215	91.43	90.96	95	6258.2	3530.22	-3217.95	3530.22	4776.78	132.35	2.45	0.00	-1.45
8310	92.33	90.19	95	6255.1	3625.16	-3218.90	3625.16	4848.00	131.60	1.25	0.00	-0.81
8405	89.81	91.00	95	6253.3	3720.13	-3219.89	3720.13	4920.07	130.88	2.79	0.00	0.85
8594	89.14	86.96	189	6255.0	3909.05	-3216.52	3909.05	5062.28	129.45	2.17	0.00	-2.14
8688	89.25	88.35	94	6256.4	4002.96	-3212.68	4002.96	5132.74	128.75	1.48	0.00	1.48
8782	88.48	87.14	94	6258.2	4096.87	-3208.98	4096.87	5204.03	128.07	1.53	0.00	-1.29
8877	90.29	91.22	95	6259.2	4191.83	-3207.62	4191.83	5278.28	127.42	4.70	0.00	4.29
8971	90.26	91.08	94	6258.8	4285.81	-3209.51	4285.81	5354.35	126.83	0.15	0.00	-0.15
9066	90.53	89.32	95	6258.1	4380.80	-3209.84	4380.80	5430.88	126.23	1.87	0.00	-1.85
9161	91.46	88.56	95	6256.5	4475.77	-3208.08	4475.77	5506.75	125.63	1.26	0.98	285.73
9255	88.67	90.73	94	6256.4	4569.75	-3207.50	4569.75	5583.07	125.06	3.76	-2.97	2.31
9350	88.23	92.30	95	6258.9	4664.68	-3210.01	4664.68	5662.46	124.53	1.72	-0.46	1.65
9445	89.77	91.48	95	6260.6	4759.61	-3213.14	4759.61	5742.67	124.02	1.84	1.62	-0.86
9539	91.73	93.03	94	6259.4	4853.52	-3216.84	4853.52	5822.78	123.54	2.66	2.09	1.65
9634	89.38	92.26	95	6258.5	4948.41	-3221.23	4948.41	5904.50	123.06	2.60	-2.47	-0.81
9729	89.67	91.63	95	6259.2	5043.35	-3224.45	5043.35	5986.02	122.59	0.73	0.31	-0.66
9823	89.78	89.90	94	6259.7	5137.34	-3225.70	5137.34	6066.09	122.12	1.84	0.12	-1.84
9918	91.08	90.10	95	6259.0	5232.33	-3225.70	5232.33	6146.75	121.65	1.38	1.37	0.21
10012	88.93	90.77	94	6259.0	5326.33	-3226.42	5326.33	6227.32	121.21	2.40	-2.29	0.71
10107	87.87	87.55	95	6261.6	5421.26	-3225.03	5421.26	6308.00	120.75	3.57	-1.12	-3.39
10201	86.82	87.20	94	6266.0	5515.06	-3220.73	5515.06	6386.63	120.28	1.18	-1.12	-0.37
10296	88.67	87.72	95	6269.7	5609.89	-3216.52	5609.89	6466.60	119.83	2.02	1.95	0.55
10391	87.40	88.61	95	6273.0	5704.78	-3213.48	5704.78	6547.60	119.39	1.63	-1.34	0.94
10485	89.76	89.88	94	6275.3	5798.74	-3212.24	5798.74	6629.02	118.98	2.85	2.51	1.35
10580	89.68	90.63	95	6275.8	5893.74	-3212.66	5893.74	6712.48	118.59	0.79	-0.08	0.79
10674	91.96	89.37	94	6274.4	5987.72	-3212.67	5987.72	6795.14	118.22	2.77	2.43	-1.34
10769	91.16	89.26	95	6271.8	6082.68	-3211.53	6082.68	6878.44	117.83	0.85	-0.84	-0.12
10864	91.63	89.24	95	6269.5	6177.64	-3210.29	6177.64	6961.98	117.46	0.50	0.49	-0.02
10958	92.23	87.91	94	6266.4	6271.55	-3207.95	6271.55	7044.38	117.09	1.55	0.64	-1.41
11053	91.25	89.37	95	6263.5	6366.48	-3205.70	6366.48	7128.01	116.73	1.85	-1.03	1.54

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11148	90.77	88.07	95	6261.8	6461.44	-3203.58	6461.44	7212.01	116.37	1.46	-0.51	-1.37
11243	91.09	88.94	95	6260.3	6556.39	-3201.10	6556.39	7296.12	116.02	0.98	0.34	0.92
11337	90.35	87.94	94	6259.1	6650.35	-3198.54	6650.35	7379.55	115.69	1.32	-0.79	-1.06
11432	91.46	88.87	95	6257.6	6745.30	-3195.89	6745.30	7464.10	115.35	1.52	1.17	0.98
11527	90.50	89.11	95	6255.9	6840.27	-3194.22	6840.27	7549.33	115.03	1.04	-1.01	0.25
11621	89.93	87.92	94	6255.6	6934.23	-3191.78	6934.23	7633.55	114.72	1.40	-0.61	-1.27
11716	90.85	86.82	95	6255.0	7029.13	-3187.43	7029.13	7718.05	114.39	1.51	0.97	-1.16
11811	89.79	91.32	95	6254.4	7124.09	-3185.88	7124.09	7804.01	114.09	4.87	-1.12	4.74
11906	89.48	92.14	95	6255.0	7219.04	-3188.75	7219.04	7891.94	113.83	0.92	-0.33	0.86
12000	89.01	100.78	94	6256.3	7312.35	-3199.32	7312.35	7981.61	113.63	9.20	-0.50	9.19
12095	87.82	108.41	95	6258.9	7404.18	-3223.23	7404.18	8075.34	113.52	8.13	-1.25	8.03
12189	87.50	116.56	94	6262.7	7490.89	-3259.11	7490.89	8169.16	113.51	8.67	-0.34	8.67
12284	89.64	127.03	95	6265.1	7571.49	-3309.08	7571.49	8263.02	113.61	11.24	2.25	11.02
12379	90.88	135.96	95	6264.7	7642.57	-3371.96	7642.57	8353.38	113.81	9.49	1.31	9.40
12473	89.88	143.54	94	6264.1	7703.26	-3443.65	7703.26	8437.95	114.09	8.13	-1.06	8.06
12568	90.65	151.25	95	6263.6	7754.41	-3523.62	7754.41	8517.44	114.44	8.16	0.81	8.12
12663	92.33	161.10	95	6261.1	7792.73	-3610.38	7792.73	8588.45	114.86	10.51	1.77	10.37
12758	93.48	170.03	95	6256.3	7816.36	-3702.17	7816.36	8648.78	115.34	9.47	1.21	9.40
12853	90.08	178.87	95	6253.4	7825.52	-3796.57	7825.52	8697.86	115.88	9.96	-3.58	9.31
12947	90.87	178.85	94	6252.6	7827.39	-3890.55	7827.39	8740.96	116.43	0.84	0.84	-0.02
13042	91.04	177.75	95	6251.0	7830.21	-3985.49	7830.21	8786.14	116.98	1.17	0.18	-1.16
13137	89.92	180.40	95	6250.2	7831.74	-4080.46	7831.74	8830.99	117.52	3.03	-1.18	2.79
13231	91.26	180.76	94	6249.2	7830.79	-4174.45	7830.79	8873.97	118.06	1.48	1.43	0.38
13326	91.14	181.29	95	6247.2	7829.09	-4269.42	7829.09	8917.55	118.60	0.57	-0.13	0.56
13421	89.57	188.38	95	6246.7	7821.09	-4364.01	7821.09	8956.23	119.16	7.64	-1.65	7.46
13515	90.52	198.35	94	6246.6	7799.39	-4455.35	7799.39	8982.24	119.74	10.65	1.01	10.61
13610	88.37	208.03	95	6247.5	7762.03	-4542.56	7762.03	8993.55	120.34	10.44	-2.26	10.19
13704	88.83	217.40	94	6249.8	7711.30	-4621.54	7711.30	8990.15	120.94	9.98	0.49	9.97
13799	86.93	225.69	95	6253.3	7648.40	-4692.53	7648.40	8973.17	121.53	8.95	-2.00	8.73
13893	88.34	233.99	94	6257.2	7576.68	-4753.04	7576.68	8944.13	122.10	8.95	1.50	8.83
13987	90.31	243.73	94	6258.3	7496.33	-4801.59	7496.33	8902.26	122.64	10.57	2.10	10.36
14082	88.77	250.21	95	6259.1	7408.96	-4838.73	7408.96	8849.07	123.15	7.01	-1.62	140.99
14177	93.45	263.26	95	6257.2	7316.74	-4860.48	7316.74	8784.01	123.60	14.59	4.93	13.74
14271	93.34	268.63	94	6251.7	7223.17	-4867.11	7223.17	8709.94	123.97	5.70	-0.12	5.71
14366	91.47	268.31	95	6247.7	7128.29	-4869.65	7128.29	8632.85	124.34	2.00	-1.97	-0.34
14460	90.30	270.23	94	6246.2	7034.32	-4870.84	7034.32	8556.09	124.70	2.39	-1.24	2.04
14555	90.65	270.26	95	6245.4	6939.32	-4870.44	6939.32	8477.93	125.06	0.37	0.37	0.03
14650	90.33	269.85	95	6244.6	6844.33	-4870.35	6844.33	8400.30	125.44	0.55	-0.34	-0.43
14744	90.78	271.38	94	6243.7	6750.34	-4869.34	6750.34	8323.31	125.80	1.70	0.48	1.63
14838	91.54	269.08	94	6241.8	6656.37	-4868.96	6656.37	8247.06	126.18	2.58	0.81	-2.45
14933	89.94	270.56	95	6240.6	6561.38	-4869.26	6561.38	8170.76	126.58	2.29	-1.68	1.56
15027	89.45	269.14	94	6241.1	6467.38	-4869.50	6467.38	8095.62	126.98	1.60	-0.52	-1.51
15122	89.86	270.95	95	6241.7	6372.39	-4869.43	6372.39	8019.89	127.39	1.95	0.43	1.91
15217	89.77	271.49	95	6242.0	6277.41	-4867.41	6277.41	7943.40	127.79	0.58	-0.09	0.57
15312	90.17	270.65	95	6242.0	6182.43	-4865.63	6182.43	7867.45	128.20	0.98	0.42	-0.88
15406	88.51	270.56	94	6243.1	6088.45	-4864.64	6088.45	7793.20	128.62	1.77	-1.77	-0.10
15501	88.80	269.09	95	6245.3	5993.47	-4864.93	5993.47	7719.41	129.07	1.58	0.31	-1.55
15595	88.02	269.78	94	6247.9	5899.52	-4865.86	5899.52	7647.28	129.52	1.11	-0.83	0.73
15689	88.48	270.31	94	6250.8	5805.56	-4865.78	5805.56	7574.98	129.97	0.75	0.49	0.56
15784	86.88	269.18	95	6254.7	5710.64	-4866.21	5710.64	7502.76	130.44	2.06	-1.68	-1.19
15879	88.70	268.80	95	6258.3	5615.73	-4867.88	5615.73	7431.87	130.92	1.96	1.92	-0.40
15974	90.07	268.79	95	6259.3	5520.76	-4869.88	5520.76	7361.69	131.42	1.44	1.44	-0.01
16068	91.43	269.81	94	6258.1	5426.78	-4871.03	5426.78	7292.25	131.91	1.81	1.45	1.09
16163	89.33	268.97	95	6257.5	5331.79	-4872.04	5331.79	7222.52	132.42	2.38	-2.21	-0.88
16257	88.22	268.16	94	6259.5	5237.85	-4874.39	5237.85	7155.05	132.94	1.46	-1.18	-0.86
16352	87.21	268.73	95	6263.3	5142.96	-4876.97	5142.96	7087.65	133.48	1.22	-1.06	0.60
16447	88.66	268.56	95	6266.7	5048.05	-4879.21	5048.05	7020.65	134.03	1.54	1.53	-0.18
16541	88.18	268.48	94	6269.3	4954.12	-4881.64	4954.12	6955.12	134.58	0.52	-0.51	-0.09

Minimum Radius of Curvature

API: **05-123-51147** Well: **Purcell 31U-20-03** WH Lat : **40.452224**
 Operator: **Highpoint Resources** Area: **DJ** Long : **-104.272436**
 Rig: Type: **U-Lateral** Magnetic Declination: **7.31**
 TD: **18,045'** Plane of Proposal: **90.00**

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
16635	89.74	269.30	94	6271.0	4860.16	-4883.46	4860.16	6889.79	135.14	1.87	1.66	0.87
16730	90.86	269.49	95	6270.5	4765.16	-4884.46	4765.16	6823.84	135.71	1.20	1.18	0.20
16825	91.42	268.49	95	6268.6	4670.20	-4886.14	4670.20	6759.07	136.29	1.21	0.59	-1.05
16919	90.45	270.88	94	6267.1	4576.22	-4886.65	4576.22	6694.86	136.88	2.74	-1.03	2.54
17014	92.13	270.92	95	6264.9	4481.26	-4885.16	4481.26	6629.21	137.47	1.77	1.77	0.04
17108	90.41	271.75	94	6262.9	4387.31	-4882.97	4387.31	6564.44	138.06	2.03	-1.83	0.88
17203	90.49	272.74	95	6262.1	4292.39	-4879.25	4292.39	6498.59	138.66	1.05	0.08	1.04
17297	91.65	272.31	94	6260.4	4198.50	-4875.11	4198.50	6433.82	139.26	1.32	1.23	-0.46
17392	89.46	270.28	95	6259.4	4103.54	-4872.96	4103.54	6370.62	139.90	3.14	-2.31	-2.14
17487	90.31	272.68	95	6259.6	4008.58	-4870.51	4008.58	6307.98	140.54	2.68	0.89	2.53
17582	89.82	274.57	95	6259.5	3913.77	-4864.50	3913.77	6243.48	141.18	2.06	-0.52	1.99
17676	88.07	271.19	94	6261.2	3819.92	-4859.78	3819.92	6181.37	141.83	4.05	-1.86	-3.60
17771	87.58	271.13	95	6264.9	3725.01	-4857.86	3725.01	6121.64	142.52	0.52	-0.52	-0.06
17866	87.41	271.62	95	6269.0	3630.13	-4855.58	3630.13	6062.55	143.22	0.55	-0.18	0.52
17960	87.40	272.15	94	6273.3	3536.28	-4852.49	3536.28	6004.33	143.92	0.56	-0.01	0.56
18045	87.40	272.15	85	6277.1	3451.43	-4849.31	3451.43	5952.15	144.56	#NUM!	0.00	0.00