

Minimum Radius of Curvature

API: 05-123-51152 **Well: Purcell 31U-20-02** **WH Lat : 40.452262**
Operator: Highpoint Resources **Area: DJ** **Long : -104.272435**
Rig: **Type: U-Lateral** **Magnetic Declination: 7.31**
TD: 18,287' **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	1.10	163.40	208	208.0	0.57	-1.91	0.57	2.00	163.40	0.53	0.53	78.56
300	3.60	117.00	92	299.9	3.40	-4.07	3.40	5.30	140.16	3.21	2.72	-50.43
392	6.40	113.60	92	391.5	10.67	-7.44	10.67	13.01	124.87	3.06	3.04	-3.70
512	9.80	104.60	120	510.3	26.69	-12.69	26.69	29.55	115.43	3.02	2.83	-7.50
643	12.10	112.30	131	639.0	50.18	-20.71	50.18	54.29	112.43	2.08	1.76	5.88
731	13.10	118.90	88	724.8	67.45	-29.03	67.45	73.43	113.29	1.99	1.14	7.50
818	14.50	117.90	87	809.3	85.71	-38.89	85.71	94.12	114.41	1.63	1.61	-1.15
906	16.00	117.30	88	894.2	106.22	-49.61	106.22	117.24	115.04	1.71	1.70	-0.68
993	17.10	117.20	87	977.6	128.25	-60.96	128.25	142.00	115.42	1.26	1.26	-0.11
1081	17.80	117.00	88	1061.6	151.75	-72.98	151.75	168.38	115.68	0.80	0.80	-0.23
1170	20.60	114.70	89	1145.6	178.10	-85.70	178.10	197.64	115.70	3.26	3.15	-2.58
1260	23.40	116.70	90	1229.0	208.45	-100.35	208.45	231.35	115.71	3.22	3.11	2.22
1349	24.70	115.70	89	1310.3	241.00	-116.35	241.00	267.62	115.77	1.53	1.46	-1.12
1437	26.00	115.70	88	1389.8	274.95	-132.69	274.95	305.29	115.76	1.48	1.48	0.00
1524	27.50	114.10	87	1467.5	310.47	-149.17	310.47	344.44	115.66	1.91	1.72	-1.84
1612	28.80	112.80	88	1545.1	348.56	-165.68	348.56	385.93	115.42	0.00	1.48	-1.48
1699	30.70	113.20	87	1620.7	388.29	-182.55	388.29	429.06	115.18	0.00	2.18	0.46
1724	31.20	114.30	25	1642.1	400.06	-187.73	400.06	441.92	115.14	0.00	2.00	4.40
1850	30.50	113.57	126	1750.3	459.11	-213.94	459.11	506.51	114.99	0.00	-0.56	-0.58
1945	31.30	116.01	95	1831.8	503.39	-234.41	503.39	555.29	114.97	0.00	0.84	2.57
2040	34.89	118.20	95	1911.4	549.53	-258.08	549.53	607.11	115.16	0.00	3.78	2.31
2134	34.15	118.45	94	1988.8	596.42	-283.35	596.42	660.31	115.41	0.00	-0.79	0.27
2229	33.11	116.55	95	2067.9	643.08	-307.65	643.08	712.88	115.57	0.00	-1.09	-2.00
2324	34.31	116.97	95	2146.9	690.15	-331.39	690.15	765.59	115.65	0.00	1.26	0.44
2419	33.30	116.03	95	2225.9	737.45	-354.98	737.45	818.44	115.70	0.00	-1.06	-0.99
2513	32.19	115.75	94	2304.9	783.19	-377.18	783.19	869.28	115.72	0.00	-1.18	-0.30
2608	36.02	109.49	95	2383.6	832.35	-397.51	832.35	922.40	115.53	0.00	4.03	-6.59
2703	35.13	109.14	95	2460.9	884.50	-415.79	884.50	977.36	115.18	0.00	-0.94	-0.37
2797	33.99	108.57	94	2538.3	934.96	-433.03	934.96	1030.37	114.85	0.00	-1.21	-0.61
2891	34.50	111.57	94	2616.0	984.63	-451.18	984.63	1083.08	114.62	0.00	0.54	3.19
2986	33.84	115.09	95	2694.6	1033.61	-472.29	1033.61	1136.41	114.56	0.00	-0.69	3.71
3081	33.43	115.16	95	2773.7	1081.25	-494.64	1081.25	1189.02	114.58	0.00	-0.43	0.07
3176	31.61	114.33	95	2853.8	1127.63	-516.02	1127.63	1240.09	114.59	0.00	-1.92	-0.87
3271	33.60	116.15	95	2933.8	1173.92	-537.86	1173.92	1291.27	114.62	2.34	2.09	1.92
3365	32.01	116.22	94	3012.8	1219.62	-560.34	1219.62	1342.18	114.68	1.69	-1.69	0.07
3461	33.56	116.83	96	3093.5	1266.12	-583.56	1266.12	1394.13	114.74	1.65	1.61	0.64
3577	35.95	115.42	116	3188.8	1325.50	-612.65	1325.50	1460.23	114.81	2.17	2.06	-1.22
3672	35.30	115.36	95	3266.1	1375.49	-636.37	1375.49	1515.57	114.83	0.69	-0.68	-0.06
3767	35.43	115.65	95	3343.5	1425.11	-660.05	1425.11	1570.55	114.85	0.22	0.00	0.31
3862	35.91	114.57	95	3420.7	1475.27	-683.55	1475.27	1625.94	114.86	0.83	0.00	-1.14
3957	35.39	116.00	95	3497.9	1525.34	-707.20	1525.34	1681.30	114.87	1.03	0.00	1.51
4052	35.48	115.71	95	3575.3	1574.90	-731.22	1574.90	1736.37	114.91	0.20	0.00	-0.31
4147	33.56	115.99	95	3653.6	1623.35	-754.69	1623.35	1790.20	114.93	2.03	0.00	0.29
4241	33.17	115.17	94	3732.1	1669.98	-777.01	1669.98	1841.89	114.95	0.63	0.00	-0.87
4336	31.40	115.24	95	3812.4	1715.89	-798.62	1715.89	1892.63	114.96	1.86	0.00	0.07
4431	33.03	117.56	95	3892.8	1761.23	-821.15	1761.23	1943.25	115.00	2.15	0.00	2.44
4525	30.38	117.21	94	3972.7	1805.09	-843.88	1805.09	1992.61	115.06	2.83	0.00	-0.37
4620	32.87	120.64	95	4053.6	1848.65	-868.01	1848.65	2042.28	115.15	3.23	0.00	3.61
4714	34.40	116.36	94	4131.9	1894.39	-892.80	1894.39	2094.24	115.23	3.00	0.00	-4.55
4808	31.76	115.97	94	4210.7	1940.44	-915.43	1940.44	2145.53	115.26	2.82	0.00	-0.41
4903	34.39	116.44	95	4290.3	1986.94	-938.33	1986.94	2197.36	115.28	2.78	0.00	0.49
4997	32.39	114.82	94	4368.7	2033.57	-960.72	2033.57	2249.09	115.29	2.33	0.00	-1.72
5092	34.36	113.93	95	4448.1	2081.18	-982.28	2081.18	2301.34	115.27	2.14	0.00	-0.94
5187	33.48	112.64	95	4526.9	2129.87	-1003.24	2129.87	2354.32	115.22	1.20	0.00	-1.36
5281	36.10	115.83	94	4604.1	2178.73	-1025.29	2178.73	2407.92	115.20	3.39	0.00	3.39
5376	35.26	115.33	95	4681.3	2228.71	-1049.21	2228.71	2463.33	115.21	0.94	0.00	-0.53
5471	33.60	114.83	95	4759.6	2277.35	-1071.99	2277.35	2517.04	115.21	1.77	0.00	-0.53

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5565	31.60	113.38	94	4838.8	2323.57	-1092.68	2323.57	2567.67	115.19	2.28	0.00	-1.54
5659	34.34	114.67	94	4917.7	2370.28	-1113.53	2370.28	2618.81	115.16	3.01	0.00	1.37
5754	32.70	113.33	95	4996.9	2418.19	-1134.88	2418.19	2671.25	115.14	1.89	0.00	-1.41
5848	36.04	113.88	94	5074.4	2466.81	-1156.13	2466.81	2724.29	115.11	3.57	0.00	0.59
5942	34.32	112.65	94	5151.3	2516.55	-1177.53	2516.55	2778.42	115.08	1.98	0.00	-1.31
6037	32.11	111.87	95	5230.7	2564.71	-1197.25	2564.71	2830.39	115.02	2.37	0.00	-0.82
6132	34.70	114.81	95	5310.0	2612.69	-1218.01	2612.69	2882.66	114.99	3.21	0.00	3.09
6227	33.62	116.52	95	5388.7	2660.77	-1241.10	2660.77	2935.99	115.01	1.52	0.00	1.80
6321	30.26	116.06	94	5468.4	2705.35	-1263.13	2705.35	2985.70	115.03	3.58	0.00	-0.49
6416	32.89	117.44	95	5549.3	2749.75	-1285.54	2749.75	3035.41	115.06	2.87	0.00	1.45
6511	32.24	118.23	95	5629.4	2794.97	-1309.41	2794.97	3086.49	115.10	0.82	0.00	0.83
6605	34.64	115.15	94	5707.8	2841.25	-1332.63	2841.25	3138.25	115.13	3.13	0.00	-3.28
6700	31.43	112.48	95	5787.5	2888.60	-1353.58	2888.60	3190.01	115.11	3.71	0.00	-2.81
6795	32.24	114.66	95	5868.2	2934.51	-1373.63	2934.51	3240.10	115.08	1.48	0.00	2.29
6890	33.25	116.54	95	5948.1	2980.84	-1395.84	2980.84	3291.47	115.09	1.51	0.00	1.98
6984	42.74	116.79	94	6022.1	3032.49	-1421.79	3032.49	3349.25	115.12	10.10	0.00	0.27
7079	52.32	109.44	95	6086.2	3096.92	-1448.91	3096.92	3419.10	115.07	11.57	0.00	-7.74
7174	57.00	99.98	95	6141.2	3171.75	-1468.37	3171.75	3495.16	114.84	9.49	0.00	-9.96
7269	58.88	93.88	95	6191.7	3251.62	-1478.03	3251.62	3571.78	114.44	5.79	0.00	-6.42
7363	67.17	87.35	94	6234.3	3335.25	-1478.75	3335.25	3648.37	113.91	10.77	0.00	-6.95
7458	81.67	86.02	95	6259.8	3426.36	-1473.44	3426.36	3729.74	113.27	15.32	0.00	-1.40
7552	88.29	88.70	94	6268.0	3519.84	-1469.14	3519.84	3814.14	112.66	7.59	0.00	2.85
7647	91.19	92.37	95	6268.4	3614.81	-1470.03	3614.81	3902.29	112.13	4.92	0.00	3.86
7741	89.91	91.37	94	6267.5	3708.75	-1473.09	3708.75	3990.60	111.66	1.73	0.00	-1.06
7835	89.96	89.64	94	6267.6	3802.75	-1473.92	3802.75	4078.40	111.19	1.84	0.00	-1.84
7930	90.89	88.30	95	6266.9	3897.72	-1472.21	3897.72	4166.49	110.69	1.72	0.00	-1.41
8025	92.62	91.97	95	6264.0	3992.66	-1472.44	3992.66	4255.51	110.24	4.27	0.00	3.86
8119	92.26	91.13	94	6260.0	4086.54	-1474.98	4086.54	4344.58	109.85	0.97	0.00	-0.89
8214	92.61	91.23	95	6256.0	4181.43	-1476.93	4181.43	4434.60	109.45	0.38	0.00	0.11
8309	92.51	90.54	95	6251.7	4276.33	-1478.40	4276.33	4524.67	109.07	0.73	0.00	-0.73
8404	90.08	90.96	95	6249.6	4371.29	-1479.64	4371.29	4614.92	108.70	2.60	0.00	0.44
8498	89.06	89.39	94	6250.3	4465.28	-1479.93	4465.28	4704.14	108.34	1.99	0.00	-1.67
8593	89.07	89.57	95	6251.8	4560.26	-1479.06	4560.26	4794.12	107.97	0.19	0.00	0.19
8687	89.18	88.46	94	6253.3	4654.24	-1477.45	4654.24	4883.11	107.61	1.19	0.00	-1.18
8782	88.74	88.81	95	6255.0	4749.19	-1475.19	4749.19	4973.03	107.26	0.59	0.00	0.37
8876	87.73	88.39	94	6257.9	4843.12	-1472.89	4843.12	5062.14	106.92	1.16	0.00	-0.45
8971	88.54	90.04	95	6261.0	4938.06	-1471.59	4938.06	5152.67	106.59	1.93	0.00	1.74
9065	87.42	90.01	94	6264.3	5032.00	-1471.63	5032.00	5242.77	106.30	1.19	-1.19	287.22
9160	89.84	89.72	95	6266.6	5126.96	-1471.41	5126.96	5333.93	106.01	2.57	2.55	-0.31
9255	88.56	89.28	95	6267.9	5221.95	-1470.58	5221.95	5425.06	105.73	1.42	-1.35	-0.46
9349	90.85	89.31	94	6268.4	5315.93	-1469.42	5315.93	5515.28	105.45	2.44	2.44	0.03
9444	90.61	88.27	95	6267.2	5410.90	-1467.42	5410.90	5606.35	105.17	1.12	-0.25	-1.09
9538	90.35	88.40	94	6266.4	5504.86	-1464.69	5504.86	5696.38	104.90	0.31	-0.28	0.14
9633	92.15	91.75	95	6264.3	5599.82	-1464.81	5599.82	5788.23	104.66	4.00	1.89	3.53
9728	91.36	91.51	95	6261.4	5694.73	-1467.51	5694.73	5880.78	104.45	0.87	-0.83	-0.25
9822	91.59	91.59	94	6259.0	5788.67	-1470.05	5788.67	5972.41	104.25	0.26	0.24	0.09
9917	93.11	91.55	95	6255.1	5883.55	-1472.65	5883.55	6065.05	104.05	1.60	1.60	-0.04
10012	88.55	91.65	95	6253.7	5978.48	-1475.30	5978.48	6157.82	103.86	4.80	-4.80	0.11
10107	87.64	91.24	95	6256.9	6073.39	-1477.70	6073.39	6250.58	103.67	1.05	-0.96	-0.43
10201	89.53	89.50	94	6259.2	6167.36	-1478.30	6167.36	6342.06	103.48	2.73	2.01	-1.85
10296	89.49	89.91	95	6260.0	6262.35	-1477.82	6262.35	6434.36	103.28	0.43	-0.04	0.43
10391	89.49	89.32	95	6260.9	6357.34	-1477.18	6357.34	6526.71	103.08	0.62	0.00	-0.62
10485	89.56	89.01	94	6261.6	6451.33	-1475.81	6451.33	6617.98	102.89	0.34	0.07	-0.33
10580	93.05	89.61	95	6259.5	6546.28	-1474.66	6546.28	6710.33	102.69	3.73	3.67	0.63
10675	93.93	89.29	95	6253.7	6641.10	-1473.75	6641.10	6802.66	102.51	0.99	0.93	-0.34
10770	92.53	90.03	95	6248.3	6735.95	-1473.19	6735.95	6895.16	102.34	1.67	-1.47	0.78
10864	93.00	90.01	94	6243.8	6829.84	-1473.22	6829.84	6986.92	102.17	0.50	0.50	-0.02
10959	90.99	90.80	95	6240.5	6924.77	-1473.89	6924.77	7079.89	102.02	2.27	-2.12	0.83

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11053	90.59	92.05	94	6239.2	7018.73	-1476.23	7018.73	7172.30	101.88	1.40	-0.43	1.33
11148	90.18	90.50	95	6238.6	7113.70	-1478.35	7113.70	7265.69	101.74	1.69	-0.43	-1.63
11243	91.41	90.67	95	6237.2	7208.69	-1479.32	7208.69	7358.91	101.60	1.31	1.29	0.18
11337	92.94	101.97	94	6233.7	7301.90	-1489.63	7301.90	7452.29	101.53	12.12	1.63	12.02
11432	89.26	111.47	95	6231.8	7392.74	-1516.93	7392.74	7546.77	101.60	10.72	-3.87	10.00
11527	89.95	121.54	95	6232.5	7477.64	-1559.27	7477.64	7638.49	101.78	10.62	0.73	10.60
11622	90.38	125.63	95	6232.2	7556.77	-1611.81	7556.77	7726.75	102.04	4.33	0.45	4.31
11717	89.98	132.40	95	6231.9	7630.54	-1671.58	7630.54	7811.48	102.36	7.14	-0.42	7.13
11811	92.95	141.89	94	6229.5	7694.37	-1740.38	7694.37	7888.74	102.75	10.57	3.16	10.10
11906	92.77	146.20	95	6224.8	7750.07	-1817.16	7750.07	7960.26	103.20	4.54	-0.19	4.54
12001	91.49	158.63	95	6221.2	7793.94	-1901.14	7793.94	8022.46	103.71	13.14	-1.35	13.08
12096	93.30	169.02	95	6217.2	7820.35	-1992.17	7820.35	8070.10	104.29	11.09	1.91	10.94
12190	91.54	177.79	94	6213.3	7831.12	-2085.37	7831.12	8104.02	104.91	9.51	-1.87	9.33
12285	90.69	179.83	95	6211.4	7833.09	-2180.32	7833.09	8130.88	105.55	2.33	-0.89	2.15
12379	90.41	178.25	94	6210.5	7834.67	-2274.30	7834.67	8158.09	106.19	1.71	-0.30	-1.68
12474	91.38	182.78	95	6209.0	7833.81	-2369.26	7833.81	8184.26	106.83	4.88	1.02	4.77
12568	92.20	183.47	94	6206.1	7828.69	-2463.08	7828.69	8207.02	107.46	1.14	0.87	0.73
12663	91.22	181.08	95	6203.3	7824.92	-2557.95	7824.92	8232.41	108.10	2.72	-1.03	-2.52
12757	90.89	180.90	94	6201.5	7823.30	-2651.92	7823.30	8260.55	108.73	0.40	-0.35	-0.19
12851	91.09	180.17	94	6199.9	7822.42	-2745.90	7822.42	8290.37	109.34	0.81	0.21	-0.78
12946	91.26	179.15	95	6198.0	7822.99	-2840.88	7822.99	8322.84	109.96	1.09	0.18	-1.07
13041	92.84	180.16	95	6194.6	7823.56	-2935.81	7823.56	8356.26	110.57	1.97	1.66	1.06
13135	93.37	179.53	94	6189.5	7823.81	-3029.67	7823.81	8389.93	111.17	0.88	0.56	-0.67
13230	92.33	181.49	95	6184.7	7822.97	-3124.55	7822.97	8423.87	111.77	2.33	-1.09	2.06
13324	89.74	182.07	94	6183.0	7820.05	-3218.48	7820.05	8456.46	112.37	2.82	-2.76	0.62
13419	89.56	181.48	95	6183.6	7817.10	-3313.43	7817.10	8490.34	112.97	0.65	-0.19	-0.62
13514	89.67	181.26	95	6184.3	7814.83	-3408.40	7814.83	8525.77	113.56	0.26	0.12	-0.23
13608	90.38	182.09	94	6184.2	7812.09	-3502.36	7812.09	8561.26	114.15	1.16	0.76	0.88
13702	93.51	192.44	94	6181.0	7800.23	-3595.41	7800.23	8588.98	114.75	11.50	3.33	11.01
13797	94.24	202.36	95	6174.6	7771.93	-3685.74	7771.93	8601.60	115.37	10.45	0.77	10.44
13891	95.20	207.61	94	6166.8	7732.37	-3770.63	7732.37	8602.75	116.00	5.66	1.02	5.59
13986	93.79	216.99	95	6159.4	7681.82	-3850.59	7681.82	8592.87	116.62	9.95	-1.48	68.00
14081	91.09	225.99	95	6155.3	7619.00	-3921.60	7619.00	8569.02	117.24	9.88	-2.84	9.47
14176	88.49	233.70	95	6155.7	7546.46	-3982.81	7546.46	8532.98	117.82	8.56	-2.74	8.12
14270	89.75	242.91	94	6157.1	7466.57	-4032.13	7466.57	8485.74	118.37	9.89	1.34	9.80
14365	90.57	251.97	95	6156.9	7378.94	-4068.54	7378.94	8426.25	118.87	9.58	0.86	9.54
14459	88.19	262.44	94	6157.9	7287.41	-4089.33	7287.41	8356.37	119.30	11.42	-2.53	11.14
14554	89.08	269.91	95	6160.1	7192.72	-4095.66	7192.72	8277.05	119.66	7.92	0.94	7.86
14648	89.13	270.04	94	6161.6	7098.73	-4095.70	7098.73	8195.53	119.98	0.15	0.05	0.14
14743	88.04	269.30	95	6164.0	7003.76	-4096.25	7003.76	8113.69	120.32	1.39	-1.15	-0.78
14838	88.05	268.68	95	6167.2	6908.83	-4097.92	6908.83	8032.74	120.67	0.65	0.01	-0.65
14932	90.00	271.64	94	6168.8	6814.86	-4097.66	6814.86	7951.93	121.02	3.77	2.07	3.15
15027	91.16	271.85	95	6167.8	6719.91	-4094.77	6719.91	7869.20	121.36	1.24	1.22	0.22
15121	91.22	271.24	94	6165.9	6625.97	-4092.23	6625.97	7787.80	121.70	0.65	0.06	-0.65
15216	90.10	271.04	95	6164.8	6530.99	-4090.34	6530.99	7706.15	122.06	1.20	-1.18	-0.21
15311	90.96	270.87	95	6163.9	6436.01	-4088.76	6436.01	7624.97	122.43	0.92	0.91	-0.18
15405	89.56	272.32	94	6163.5	6342.05	-4086.14	6342.05	7544.41	122.79	2.14	-1.49	1.54
15500	88.91	271.85	95	6164.8	6247.12	-4082.69	6247.12	7462.90	123.17	0.84	-0.68	-0.49
15594	88.48	271.80	94	6166.9	6153.20	-4079.69	6153.20	7382.80	123.55	0.46	-0.46	-0.05
15689	89.27	271.24	95	6168.8	6058.25	-4077.17	6058.25	7302.45	123.94	1.02	0.83	-0.59
15783	87.92	271.92	94	6171.1	5964.32	-4074.58	5964.32	7223.25	124.34	1.61	-1.44	0.72
15878	89.48	270.86	95	6173.2	5869.37	-4072.28	5869.37	7143.74	124.75	1.99	1.64	-1.12
15972	89.58	270.75	94	6174.0	5775.39	-4070.96	5775.39	7065.96	125.18	0.16	0.11	-0.12
16067	89.86	270.59	95	6174.5	5680.39	-4069.85	5680.39	6987.88	125.62	0.34	0.29	-0.17
16161	89.25	270.00	94	6175.2	5586.40	-4069.36	5586.40	6911.41	126.07	0.90	-0.65	-0.63
16256	88.60	270.10	95	6177.0	5491.42	-4069.28	5491.42	6834.81	126.54	0.69	-0.68	0.11
16351	88.22	271.18	95	6179.6	5396.46	-4068.22	5396.46	6758.12	127.01	1.20	-0.40	1.14
16446	90.18	270.36	95	6180.9	5301.48	-4066.94	5301.48	6681.75	127.49	2.24	2.06	-0.86

Minimum Radius of Curvature

API: 05-123-51152 **Well: Purcell 31U-20-02** **WH Lat : 40.452262**
Operator: Highpoint Resources **Area: DJ** **Long : -104.272435**
Rig: **Type: U-Lateral** **Magnetic Declination: 7.31**
TD: 18,287' **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			
16541	90.97	270.35	95	6180.0	5206.49	-4066.36	5206.49	6606.27	127.99	0.83	0.83	-0.01
16635	91.92	271.33	94	6177.6	5112.53	-4064.98	5112.53	6531.62	128.49	1.45	1.01	1.04
16731	88.54	269.32	96	6177.2	5016.55	-4064.43	5016.55	6456.43	129.01	4.10	-3.52	-2.09
16826	87.60	269.57	95	6180.4	4921.61	-4065.35	4921.61	6383.52	129.56	1.02	-0.99	0.26
16920	87.13	269.48	94	6184.7	4827.72	-4066.13	4827.72	6311.92	130.11	0.51	-0.50	-0.10
17014	89.30	268.17	94	6187.7	4733.79	-4068.06	4733.79	6241.62	130.67	2.70	2.31	-1.39
17109	89.88	268.09	95	6188.4	4638.84	-4071.16	4638.84	6171.97	131.27	0.62	0.61	-0.08
17204	90.40	268.10	95	6188.1	4543.90	-4074.32	4543.90	6103.04	131.88	0.55	0.55	0.01
17298	91.08	268.22	94	6186.9	4449.95	-4077.34	4449.95	6035.46	132.50	0.73	0.72	0.13
17393	91.59	267.91	95	6184.7	4355.03	-4080.54	4355.03	5968.01	133.14	0.63	0.54	-0.33
17488	91.46	268.91	95	6182.2	4260.10	-4083.18	4260.10	5900.92	133.79	1.06	-0.14	1.05
17582	92.00	268.55	94	6179.3	4166.17	-4085.26	4166.17	5834.92	134.44	0.69	0.57	-0.38
17677	90.27	269.73	95	6177.4	4071.21	-4086.68	4071.21	5768.51	135.11	2.20	-1.82	1.24
17772	90.47	270.13	95	6176.8	3976.21	-4086.80	3976.21	5701.94	135.79	0.47	0.21	0.42
17866	89.78	268.71	94	6176.6	3882.22	-4087.75	3882.22	5637.49	136.48	1.68	-0.73	-1.51
17961	88.84	268.44	95	6177.8	3787.25	-4090.11	3787.25	5574.26	137.20	1.03	-0.99	-0.28
18055	86.98	268.37	94	6181.2	3693.36	-4092.73	3693.36	5512.83	137.94	1.98	-1.98	-0.07
18150	88.50	269.83	95	6184.9	3598.45	-4094.22	3598.45	5450.82	138.69	2.22	1.60	1.54
18224	87.14	269.77	74	6187.8	3524.50	-4094.48	3524.50	5402.49	139.28	1.84	-1.84	-0.08
18287	87.14	269.77	63	6190.9	3461.58	-4094.73	3461.58	5361.84	139.79	0.00	0.00	0.00