

Minimum Radius of Curvature

API: 42-127-38658 **Well: Faith-Yana J Unit R3H** **Wellhead Location N+/S- : 28.226748**
Operator: Chesapeake Energy **Area: Eagleford** **E+/W- : -99.931660**
Rig: Cactus 144 **Type: U-Lateral** **Magnetic Declination: 4.46**
TD: 21,064' **Plane of Proposal: 292.00**

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			
100	0.25	67.70	100	100.0	-103.39	0.08	0.20	0.22	67.70	0.25	0.25	67.70
200	0.47	66.45	100	200.0	-103.83	0.33	0.78	0.85	67.09	0.22	0.22	-1.25
322	1.86	342.78	122	322.0	-102.93	2.42	0.65	2.51	15.08	1.53	1.14	226.50
417	4.10	335.00	95	416.8	-99.47	6.97	-1.24	7.08	349.92	2.39	2.36	-8.19
512	4.91	334.31	95	511.5	-93.98	13.71	-4.44	14.41	342.07	0.85	0.85	-0.73
607	4.70	332.49	95	606.2	-88.01	20.83	-8.00	22.31	339.00	0.27	-0.22	-1.92
702	4.30	331.96	95	700.9	-82.32	27.42	-11.47	29.73	337.30	0.42	-0.42	-0.56
797	3.86	330.40	95	795.7	-77.09	33.35	-14.72	36.45	336.18	0.48	-0.46	-1.64
892	4.00	332.60	95	890.5	-72.06	39.07	-17.83	42.95	335.47	0.22	0.15	2.32
987	5.79	336.75	95	985.1	-66.14	46.42	-21.24	51.05	335.41	1.92	1.88	4.37
1081	7.87	343.22	94	1078.4	-58.74	56.93	-24.97	62.17	336.32	2.36	2.21	6.88
1176	9.26	347.48	95	1172.4	-50.34	70.62	-28.51	76.16	338.02	1.61	1.46	4.48
1271	8.24	346.65	95	1266.3	-42.07	84.71	-31.74	90.46	339.46	1.08	-1.07	-0.87
1366	7.29	342.71	95	1360.4	-34.31	97.09	-35.10	103.24	340.12	1.15	-1.00	-4.15
1461	6.81	335.70	95	1454.7	-26.42	107.98	-39.21	114.88	340.04	1.04	-0.51	-7.38
1565	7.57	333.12	104	1557.9	-16.81	119.71	-44.85	127.83	339.46	0.79	0.73	-2.48
1660	9.05	339.15	95	1651.9	-7.01	132.27	-50.33	141.53	339.17	1.81	1.56	6.35
1755	12.17	348.94	95	1745.2	3.54	149.09	-54.92	158.88	339.78	3.78	3.28	10.31
1850	13.38	350.23	95	1837.9	14.79	169.75	-58.70	179.61	340.92	1.31	1.27	1.36
1944	13.26	349.88	94	1929.4	26.25	191.08	-62.44	201.02	341.90	0.15	-0.13	-0.37
2039	12.99	349.01	95	2021.9	37.85	212.29	-66.39	222.43	342.63	0.35	-0.28	-0.92
2134	12.36	346.59	95	2114.6	49.56	232.66	-70.79	243.19	343.08	0.87	-0.66	-2.55
2229	11.70	344.71	95	2207.5	61.29	251.84	-75.68	262.97	343.27	0.81	-0.69	-1.98
2324	11.16	344.33	95	2300.6	72.74	269.98	-80.71	281.79	343.36	0.57	-0.57	-0.40
2419	10.51	342.03	95	2393.9	83.92	287.08	-85.86	299.64	343.35	0.82	-0.68	-2.42
2513	9.64	338.85	94	2486.4	94.81	302.57	-91.35	316.06	343.20	1.10	-0.93	-3.38
2608	9.73	338.91	95	2580.1	105.74	317.48	-97.11	332.00	342.99	0.10	0.09	0.06
2703	9.90	345.13	95	2673.7	116.12	332.87	-102.09	348.17	342.95	1.13	0.18	6.55
2798	10.09	352.30	95	2767.3	125.15	349.01	-105.30	364.55	343.21	1.32	0.20	7.55
2893	9.16	349.59	95	2860.9	133.32	364.69	-107.78	380.29	343.54	1.09	-0.98	-2.85
2988	8.16	354.56	95	2954.8	140.48	378.84	-109.79	394.43	343.84	1.31	-1.05	5.23
3082	7.42	4.86	94	3048.0	145.35	391.53	-109.91	406.66	344.32	1.68	-0.79	-372.02
3177	6.23	3.47	95	3142.3	148.79	402.79	-109.08	417.30	344.85	1.26	-1.25	-1.46
3272	7.13	352.84	95	3236.7	153.30	413.78	-109.50	428.03	345.18	1.61	0.95	367.76
3367	7.62	351.10	95	3330.9	159.41	425.86	-111.21	440.14	345.36	0.57	0.52	-1.83
3462	8.27	355.68	95	3425.0	165.67	438.89	-112.70	453.13	345.60	0.95	0.68	4.82
3557	10.42	359.92	95	3518.7	171.93	454.30	-113.22	468.20	346.01	2.37	2.26	4.46
3652	9.56	358.56	95	3612.3	178.30	470.78	-113.43	484.25	346.45	0.94	-0.91	-1.43
3747	9.46	0.02	95	3705.9	184.36	486.47	-113.63	499.56	346.85	0.27	-0.11	-377.41
3842	12.84	4.39	95	3799.1	190.48	504.81	-112.82	517.26	347.40	3.66	3.56	4.60
3937	13.74	0.40	95	3891.6	197.83	526.61	-111.93	538.38	348.00	1.35	0.95	-4.20
4031	12.84	359.54	94	3983.1	205.93	548.22	-111.94	559.53	348.46	0.98	-0.96	382.06
4126	11.91	357.61	95	4075.9	214.01	568.57	-112.43	579.58	348.81	1.07	-0.98	-2.03
4221	11.45	355.83	95	4168.9	222.21	587.77	-113.53	598.63	349.07	0.62	-0.48	-1.87
4316	11.09	354.37	95	4262.1	230.61	606.27	-115.11	617.10	349.25	0.48	-0.38	-1.54
4411	12.63	355.16	95	4355.0	239.54	625.71	-116.88	636.53	349.42	1.63	1.62	0.83
4506	14.19	353.42	95	4447.5	249.80	647.63	-119.09	658.49	349.58	1.70	1.64	-1.83
4601	13.43	351.61	95	4539.7	260.95	670.11	-122.04	681.13	349.68	0.92	-0.80	-1.91
4696	12.86	349.38	95	4632.2	272.23	691.42	-125.59	702.73	349.70	0.80	-0.60	-2.35
4791	12.34	347.69	95	4724.9	283.65	711.73	-129.71	723.45	349.67	0.67	-0.55	-1.78
4886	12.16	346.76	95	4817.8	295.15	731.38	-134.16	743.59	349.61	0.28	-0.19	-0.98
4981	11.99	346.56	95	4910.7	306.64	750.72	-138.75	763.43	349.53	0.18	-0.18	-0.21
5076	11.87	347.83	95	5003.6	317.85	769.87	-143.10	783.06	349.47	0.30	-0.13	1.34
5171	11.10	348.79	95	5096.7	328.35	788.39	-146.94	801.97	349.44	0.84	-0.81	1.01
5265	10.70	348.27	94	5189.0	338.15	805.81	-150.47	819.74	349.42	0.44	-0.43	-0.55
5360	12.01	351.94	95	5282.2	348.00	824.23	-153.65	838.43	349.44	1.57	1.38	3.86
5455	12.77	355.06	95	5374.9	357.70	844.48	-155.94	858.76	349.54	1.07	0.80	3.28

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5550	12.13	353.85	95	5467.7	367.17	864.86	-157.91	879.16	349.65	0.73	-0.67	-1.27
5645	11.77	352.94	95	5560.6	376.59	884.40	-160.17	898.79	349.73	0.43	-0.38	-0.96
5739	11.39	351.43	94	5652.7	385.96	903.10	-162.74	917.64	349.79	0.52	-0.40	-1.61
5834	10.90	350.27	95	5745.9	395.46	921.23	-165.65	936.00	349.81	0.57	-0.52	-1.22
5929	10.35	349.05	95	5839.3	404.82	938.46	-168.79	953.52	349.80	0.63	-0.58	-1.28
6024	9.99	345.21	95	5932.8	414.40	954.80	-172.52	970.26	349.76	0.81	-0.38	-4.04
6119	9.14	340.91	95	6026.5	424.29	969.90	-177.09	985.93	349.65	1.17	-0.89	-4.53
6214	11.74	357.68	95	6119.9	433.24	986.69	-179.95	1002.97	349.66	4.18	2.74	17.65
6309	10.17	353.69	95	6213.2	441.20	1004.69	-181.26	1020.91	349.77	1.83	-1.65	-4.20
6404	10.72	347.71	95	6306.6	450.15	1021.66	-184.06	1038.11	349.79	1.28	0.58	-6.29
6499	11.86	345.45	95	6399.8	460.94	1039.74	-188.40	1056.67	349.73	1.29	1.20	-2.38
6593	14.59	347.39	94	6491.3	473.42	1060.65	-193.41	1078.14	349.67	2.94	2.90	2.06
6688	21.81	333.29	95	6581.5	493.51	1088.14	-203.97	1107.09	349.38	8.85	7.60	-14.84
6783	32.33	326.94	95	6666.0	527.70	1125.31	-225.83	1147.74	348.65	11.47	11.07	-6.68
6878	36.15	313.96	95	6744.6	574.59	1166.12	-259.91	1194.73	347.43	8.66	4.02	-13.66
6973	43.25	307.15	95	6817.7	632.10	1205.29	-306.11	1243.55	345.75	8.76	7.47	-7.17
7068	52.31	301.40	95	6881.5	700.77	1244.63	-364.28	1296.84	343.69	10.53	9.54	-6.05
7162	61.14	305.41	94	6933.1	777.68	1287.96	-429.72	1357.75	341.55	10.04	9.39	4.27
7257	68.96	307.83	95	6973.1	860.94	1339.34	-498.76	1429.19	339.58	8.55	8.23	2.55
7352	72.58	305.18	95	7004.4	947.76	1392.67	-570.85	1505.12	337.71	4.63	3.81	-2.79
7447	72.09	304.60	95	7033.2	1036.00	1444.44	-645.10	1581.95	335.93	0.78	-0.52	-0.61
7542	81.15	303.94	95	7055.2	1126.21	1496.42	-721.40	1661.23	334.26	9.56	9.54	-0.69
7637	89.99	301.11	95	7062.5	1219.24	1547.28	-801.18	1742.40	332.62	9.77	9.31	-2.98
7732	90.22	302.20	95	7062.3	1312.89	1597.14	-882.05	1824.51	331.09	1.17	0.24	1.15
7827	89.26	301.56	95	7062.8	1406.48	1647.31	-962.72	1908.00	329.70	1.21	-1.01	-0.67
7922	89.05	301.81	95	7064.2	1500.11	1697.20	-1043.55	1992.36	328.41	0.34	-0.22	0.26
8017	90.49	303.81	95	7064.6	1593.42	1748.67	-1123.38	2078.43	327.28	2.59	1.52	2.11
8112	91.63	302.63	95	7062.8	1686.59	1800.71	-1202.84	2165.50	326.26	1.73	1.20	-1.24
8207	90.65	298.41	95	7060.9	1780.50	1848.93	-1284.65	2251.41	325.21	4.56	-1.03	-4.44
8301	91.81	295.99	94	7058.9	1874.08	1891.89	-1368.22	2334.80	324.13	2.85	1.23	-2.57
8396	94.69	295.34	95	7053.5	1968.72	1932.96	-1453.70	2418.59	323.05	3.11	3.03	-0.68
8491	94.71	295.41	95	7045.7	2063.24	1973.54	-1539.25	2502.82	322.05	0.08	0.02	0.07
8586	94.62	295.37	95	7038.0	2157.76	2014.13	-1624.79	2587.79	321.11	0.10	-0.09	-0.04
8681	94.20	294.64	95	7030.7	2252.34	2054.17	-1710.63	2673.18	320.21	0.88	-0.44	-0.77
8776	93.54	295.08	95	7024.3	2347.01	2094.02	-1796.63	2759.13	319.37	0.83	-0.69	0.46
8871	91.96	296.19	95	7019.7	2441.70	2135.07	-1882.18	2846.24	318.60	2.03	-1.66	1.17
8965	91.39	297.10	94	7017.0	2535.35	2177.21	-1966.16	2933.60	317.92	1.14	-0.61	0.97
9060	90.90	297.53	95	7015.1	2629.93	2220.79	-2050.55	3022.69	317.28	0.69	-0.52	0.45
9155	91.28	294.89	95	7013.3	2724.64	2262.74	-2135.75	3111.50	316.65	2.81	0.40	-2.78
9250	92.81	295.21	95	7009.9	2819.45	2302.94	-2221.76	3199.96	316.03	1.65	1.61	0.34
9345	93.38	294.96	95	7004.8	2914.17	2343.15	-2307.67	3288.73	315.44	0.66	0.60	-0.26
9440	92.74	295.51	95	6999.7	3008.88	2383.60	-2393.49	3377.91	314.88	0.89	-0.67	0.58
9535	92.59	299.07	95	6995.3	3103.36	2427.10	-2477.81	3468.48	314.41	3.75	-0.16	3.75
9629	91.93	297.84	94	6991.6	3196.69	2471.85	-2560.38	3558.88	313.99	1.48	-0.70	-1.31
9724	91.13	298.50	95	6989.0	3291.10	2516.68	-2644.10	3650.34	313.59	1.09	-0.84	0.69
9819	91.84	300.02	95	6986.6	3385.31	2563.10	-2726.95	3742.42	313.23	1.77	0.75	1.60
9914	92.84	301.90	95	6982.7	3479.06	2611.93	-2808.34	3835.22	312.92	2.24	1.05	1.98
10009	90.66	303.16	95	6979.8	3572.41	2662.99	-2888.39	3928.65	312.67	2.65	-2.29	1.33
10104	87.03	300.11	95	6981.7	3666.03	2712.79	-2969.24	4021.89	312.42	4.99	-3.82	-3.21
10199	86.36	297.33	95	6987.2	3760.21	2758.36	-3052.40	4114.09	312.10	3.01	-0.71	-2.93
10294	88.69	294.24	95	6991.3	3854.89	2799.64	-3137.85	4205.24	311.74	4.07	2.45	-3.25
10389	90.35	292.95	95	6992.1	3949.85	2837.66	-3224.90	4295.61	311.35	2.21	1.75	-1.36
10484	91.20	292.64	95	6990.8	4044.83	2874.46	-3312.47	4385.77	310.95	0.95	0.89	-0.33
10579	91.59	289.36	95	6988.5	4139.77	2908.49	-3401.12	4475.15	310.54	3.48	0.41	-3.45
10673	91.97	290.80	94	6985.6	4233.67	2940.75	-3489.36	4563.29	310.12	1.58	0.40	1.53
10768	92.70	296.23	95	6981.7	4328.53	2978.61	-3576.37	4654.30	309.79	5.76	0.77	5.72
10863	92.10	292.19	95	6977.7	4423.35	3017.52	-3662.92	4745.78	309.48	4.30	-0.63	-4.25
10958	91.58	288.40	95	6974.6	4518.24	3050.45	-3751.96	4835.54	309.11	4.02	-0.55	-3.99

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11053	94.42	291.98	95	6969.7	4613.04	3083.18	-3840.98	4925.35	308.75	4.81	2.99	3.77
11148	94.71	293.75	95	6962.1	4707.72	3119.97	-3928.23	5016.49	308.46	1.88	0.31	1.86
11243	93.45	294.08	95	6955.4	4802.43	3158.39	-4014.85	5108.27	308.19	1.37	-1.33	0.35
11338	92.13	294.64	95	6950.7	4897.23	3197.52	-4101.29	5200.45	307.94	1.51	-1.39	0.59
11433	91.94	295.87	95	6947.4	4992.02	3238.03	-4187.15	5293.12	307.72	1.31	-0.20	1.29
11528	93.03	301.71	95	6943.2	5086.22	3283.71	-4270.29	5386.85	307.56	6.25	1.15	6.15
11623	92.59	300.46	95	6938.6	5179.91	3332.70	-4351.55	5481.14	307.45	1.39	-0.46	-1.32
11717	92.80	300.62	94	6934.2	5272.77	3380.42	-4432.42	5574.37	307.33	0.28	0.22	0.17
11812	91.81	298.40	95	6930.3	5366.87	3427.17	-4515.03	5668.42	307.20	2.56	-1.04	-2.34
11907	87.16	294.74	95	6931.2	5461.52	3469.64	-4599.95	5761.77	307.03	6.23	-4.89	-3.85
12002	85.81	295.61	95	6937.0	5556.20	3509.98	-4685.76	5854.60	306.84	1.69	-1.42	0.92
12097	88.89	293.85	95	6941.4	5650.97	3549.67	-4771.95	5947.40	306.64	3.73	3.24	-1.85
12192	90.37	295.02	95	6942.0	5745.88	3588.96	-4858.43	6040.28	306.45	1.99	1.56	1.23
12287	90.80	297.96	95	6941.0	5840.57	3631.33	-4943.44	6133.86	306.30	3.13	0.45	3.09
12381	91.78	299.64	94	6938.9	5933.88	3676.60	-5025.79	6227.04	306.19	2.07	1.04	1.79
12476	89.75	297.74	95	6937.7	6028.22	3722.20	-5109.11	6321.22	306.07	2.93	-2.14	-2.00
12571	89.04	294.73	95	6938.7	6122.94	3764.19	-5194.31	6414.82	305.93	3.26	-0.75	-3.17
12666	88.76	294.90	95	6940.5	6217.81	3804.05	-5280.52	6508.05	305.77	0.34	-0.29	0.18
12761	88.00	294.65	95	6943.2	6312.66	3843.84	-5366.74	6601.29	305.61	0.84	-0.80	-0.26
12856	90.06	293.72	95	6944.8	6407.57	3882.76	-5453.39	6694.42	305.45	2.38	2.17	-0.98
12950	90.78	292.82	94	6944.1	6501.54	3919.89	-5539.74	6786.33	305.28	1.23	0.77	-0.96
13045	89.86	292.66	95	6943.6	6596.53	3956.61	-5627.35	6879.09	305.11	0.98	-0.97	-0.17
13140	89.49	292.38	95	6944.1	6691.53	3993.00	-5715.11	6971.83	304.94	0.49	-0.39	-0.29
13235	89.04	292.82	95	6945.3	6786.51	4029.50	-5802.80	7064.66	304.78	0.66	-0.47	0.46
13330	89.68	294.54	95	6946.4	6881.46	4067.65	-5889.80	7157.90	304.63	1.93	0.67	1.81
13425	88.57	296.34	95	6947.8	6976.28	4108.45	-5975.57	7251.68	304.51	2.23	-1.17	1.89
13520	87.69	296.04	95	6950.9	7070.97	4150.36	-6060.77	7345.64	304.40	0.98	-0.93	-0.32
13615	87.87	299.25	95	6954.6	7165.43	4194.40	-6144.85	7439.90	304.32	3.38	0.19	3.38
13710	91.70	308.48	95	6955.0	7258.28	4247.27	-6223.63	7534.78	304.31	10.52	4.03	9.72
13804	91.14	319.02	94	6952.6	7345.43	4312.16	-6291.42	7627.36	304.43	11.23	-0.60	11.21
13899	89.79	330.04	95	6951.9	7425.40	4389.41	-6346.45	7716.50	304.67	11.69	-1.42	11.60
13994	87.52	339.90	95	6954.1	7494.81	4475.35	-6386.59	7798.54	305.02	10.65	-2.39	10.38
14089	87.19	351.46	95	6958.5	7550.92	4567.14	-6410.02	7870.65	305.47	12.16	-0.35	12.17
14184	87.65	3.29	95	6962.8	7590.39	4661.78	-6414.36	7929.45	306.01	12.45	0.48	-366.49
14279	87.66	14.10	95	6966.7	7612.20	4755.47	-6400.03	7973.38	306.61	11.37	0.01	11.38
14374	90.85	23.68	95	6967.9	7617.35	4845.23	-6369.31	8002.77	307.26	10.63	3.36	10.08
14469	88.66	34.02	95	6968.3	7606.04	4928.32	-6323.54	8017.20	307.93	11.12	-2.31	10.88
14564	88.22	44.37	95	6970.9	7578.00	5001.81	-6263.61	8015.67	308.61	10.90	-0.46	10.89
14659	91.62	55.56	95	6971.1	7533.53	5062.82	-6191.00	7997.54	309.28	12.31	3.58	11.78
14753	92.54	66.24	94	6967.6	7474.63	5108.44	-6109.04	7963.45	309.90	11.40	0.98	11.36
14848	92.95	77.02	95	6963.1	7402.44	5138.30	-6019.12	7914.03	310.49	11.34	0.43	11.35
14943	92.54	86.93	95	6958.5	7320.39	5151.53	-5925.27	7851.57	311.00	10.43	-0.43	10.43
15038	94.55	94.53	95	6952.6	7232.10	5150.33	-5830.54	7779.53	311.46	8.26	2.12	8.00
15133	97.72	100.89	95	6942.5	7140.63	5137.68	-5736.99	7701.22	311.85	7.45	3.34	6.69
15228	95.84	109.65	95	6931.2	7047.04	5112.85	-5646.09	7617.05	312.16	9.37	-1.98	9.22
15322	96.11	117.01	94	6921.4	6953.64	5075.85	-5560.30	7528.69	312.39	7.79	0.29	7.83
15417	95.93	116.63	95	6911.5	6859.50	5033.22	-5475.99	7437.73	312.59	0.44	-0.19	-0.40
15512	95.88	116.43	95	6901.7	6765.30	4991.02	-5391.44	7346.97	312.79	0.22	-0.05	-0.21
15607	92.42	115.27	95	6894.8	6670.78	4949.71	-5306.19	7256.40	313.01	3.84	-3.64	-1.22
15702	88.68	116.71	95	6893.9	6576.03	4908.09	-5220.82	7165.63	313.23	4.22	-3.94	1.52
15797	87.95	115.60	95	6896.7	6481.32	4866.24	-5135.58	7074.92	313.46	1.40	-0.77	-1.17
15892	87.92	114.99	95	6900.1	6386.54	4825.67	-5049.75	6984.77	313.70	0.64	-0.03	-0.64
15987	87.96	115.78	95	6903.5	6291.77	4784.97	-4963.98	6894.71	313.95	0.83	0.04	0.83
16081	87.14	114.34	94	6907.6	6197.99	4745.19	-4878.91	6805.92	314.20	1.76	-0.87	-1.53
16176	88.00	119.14	95	6911.6	6103.43	4702.50	-4794.17	6715.47	314.45	5.13	0.91	5.05
16271	86.67	119.05	95	6916.0	6009.26	4656.35	-4711.25	6624.01	314.66	1.40	-1.40	-0.09
16366	86.46	119.45	95	6921.7	5915.19	4610.02	-4628.51	6532.64	314.89	0.47	-0.22	0.42
16461	86.89	118.50	95	6927.2	5821.06	4564.08	-4545.54	6441.49	315.12	1.10	0.45	-1.00

Minimum Radius of Curvature

API: 42-127-38658 **Well: Faith-Yana J Unit R3H** **Wellhead Location N+/S- : 28.226748**
Operator: Chesapeake Energy **Area: Eagleford** **E+/W- : -99.931660**
Rig: Cactus 144 **Type: U-Lateral** **Magnetic Declination: 4.46**
TD: 21,064' **Plane of Proposal: 292.00**

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			
16556	86.35	118.40	95	6932.8	5726.82	4518.90	-4462.16	6350.69	315.36	0.58	-0.57	-0.11
16651	88.07	114.32	95	6937.4	5632.23	4476.78	-4377.16	6261.08	315.64	4.66	1.81	-4.29
16745	89.20	113.36	94	6939.7	5538.31	4438.80	-4291.21	6173.93	315.97	1.58	1.20	-1.02
16840	89.17	113.29	95	6941.0	5443.35	4401.19	-4203.98	6086.37	316.31	0.08	-0.03	-0.07
16935	89.12	112.78	95	6942.4	5348.37	4364.02	-4116.56	5999.23	316.67	0.54	-0.05	-0.54