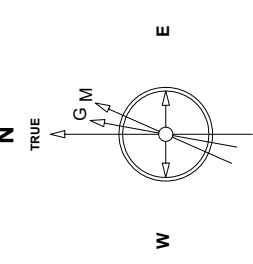


Great Western Operating Company, LLC

Location	Colorado	Slot	C07 - Postle IC 09-179HNX
Field	Wattenburg	Well	Postle IC 09-179HNX
Installation	Postle West	Wellbore	Postle IC 09-179HNX (AWB)

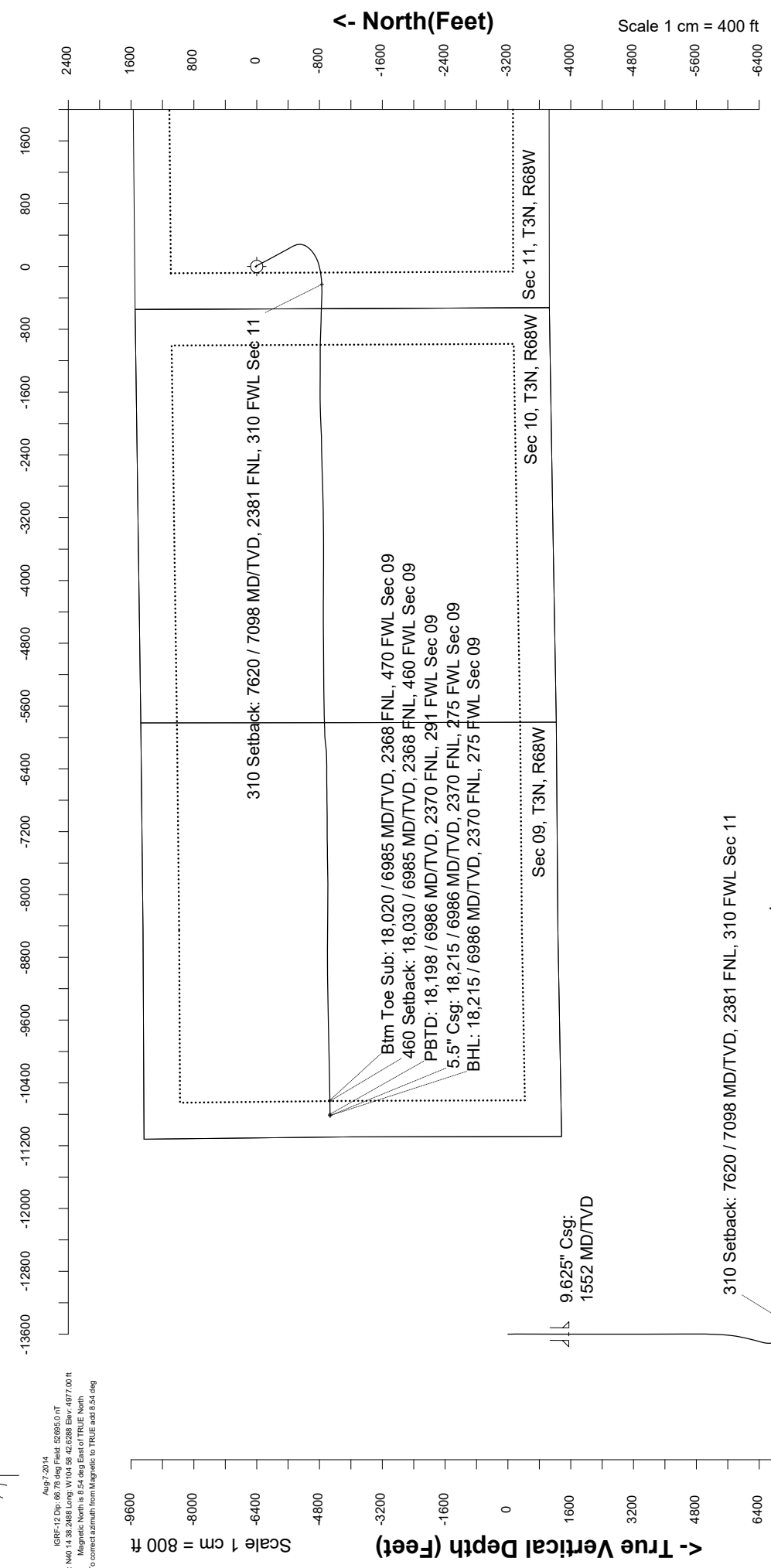
Created by: rmmount
 Date plotted: 20-Apr-2020
 Plot reference is Postle IC 09-179HNX (AWB).
 Ref wellpath is Postle IC 09-179HNX (AW/P#1).
 Coordinates are in Feet reference C07 - Postle IC 09-179HNX.
 True Vertical Depths are reference Rig Datum.
 Measured Depths are reference Rig Datum.
 Rig Datum: Actual Datum #1
 Rig Datum to Mean Sea Level: 4997.00 ft.
 Plot North is aligned to TRUE North.



Aug 7, 2014
 KRF: 12 Deg, 66.78 deg Field: 52695.0 FT
 Lat: N40 14.38, 2488 Long: W 104 58.42, 6298 Elev: 4977.00 ft
 Magnetic North is 9.54 deg East of TRUE North
 To correct azimuth from Magnetic to TRUE add 8.54 deg

Scale 1 cm = 400 ft

East (Feet) ->



<- North(Feet)

Scale 1 cm = 400 ft

Scale 1 cm = 800 ft

Scale 1 cm = 800 ft

Vertical Section (Feet) ->
 Azimuth 265.06 with reference 0.00 N, 0.00 E from C07 - Postle IC 09-179HNX

Great Western Operating Co, LLC
 Directional Survey Report
 Wellpath: Postle IC 09-179HNX
 MDs and TVDs are from Rig 4997.0ft above Mean Sea Level

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14.00	0.00	239.89	14.00	0.00	0.00	0.00	0.00
92.00	0.09	239.89	92.00	-0.03	-0.05	0.00	0.06
180.00	0.31	208.60	180.00	-0.27	-0.23	0.00	0.25
272.00	0.26	278.03	272.00	-0.46	-0.55	0.00	0.59
364.00	0.53	13.13	364.00	-0.02	-0.66	0.00	0.66
454.00	1.01	3.64	453.99	1.18	-0.52	0.00	0.41
544.00	1.05	12.16	543.97	2.77	-0.29	0.00	0.05
634.00	1.36	348.43	633.95	4.63	-0.33	0.00	-0.07
724.00	1.45	353.09	723.93	6.80	-0.69	0.00	0.10
813.00	1.89	3.20	812.89	9.39	-0.74	0.00	-0.07
903.00	1.85	1.70	902.84	12.32	-0.61	0.00	-0.45
993.00	1.19	7.50	992.81	14.70	-0.45	0.00	-0.82
1083.00	0.22	27.37	1082.80	15.78	-0.25	0.00	-1.11
1173.00	0.40	282.69	1172.80	16.00	-0.47	0.00	-0.91
1263.00	0.57	197.87	1262.80	15.65	-0.92	0.00	-0.43
1353.00	0.88	154.37	1352.79	14.60	-0.76	0.00	-0.50
1443.00	0.31	128.09	1442.79	13.82	-0.27	0.00	-0.93
1501.00	0.75	46.70	1500.78	13.99	0.13	0.00	-1.34
1626.00	0.28	354.37	1625.78	14.85	0.70	0.00	-1.98
1716.00	0.00	98.07	1715.78	15.07	0.68	0.00	-1.97
1806.00	0.04	226.13	1805.78	15.05	0.66	0.00	-1.95
1895.00	0.21	274.58	1894.78	15.04	0.47	0.00	-1.76
1985.00	0.32	150.51	1984.78	14.83	0.43	0.00	-1.71
2075.00	0.16	254.25	2074.78	14.58	0.43	0.00	-1.69
2164.00	0.14	245.43	2163.78	14.50	0.21	0.00	-1.46
2254.00	0.03	130.17	2253.78	14.44	0.13	0.00	-1.38
2344.00	0.04	158.58	2343.78	14.40	0.16	0.00	-1.40
2433.00	0.16	272.00	2432.78	14.37	0.05	0.00	-1.29
2523.00	0.38	201.11	2522.78	14.10	-0.18	0.00	-1.03
2613.00	0.11	159.48	2612.78	13.74	-0.26	0.00	-0.92
2702.00	0.07	172.61	2701.78	13.60	-0.22	0.00	-0.95
2792.00	0.15	215.16	2791.78	13.45	-0.29	0.00	-0.87
2882.00	0.18	152.75	2881.78	13.23	-0.29	0.00	-0.85
2971.00	0.17	352.78	2970.78	13.24	-0.24	0.00	-0.90
3061.00	0.03	219.86	3060.78	13.35	-0.27	0.00	-0.88
3151.00	0.14	295.43	3150.78	13.38	-0.39	0.00	-0.77
3240.00	0.20	259.26	3239.77	13.40	-0.64	0.00	-0.52
3330.00	0.22	287.00	3329.77	13.42	-0.96	0.00	-0.20
3419.00	0.75	108.88	3418.77	13.28	-0.57	0.00	-0.58
3509.00	0.14	349.90	3508.77	13.20	-0.03	0.00	-1.11
3598.00	0.03	338.87	3597.77	13.33	-0.06	0.00	-1.09
3688.00	0.13	96.89	3687.77	13.34	0.03	0.00	-1.18
3778.00	0.14	192.12	3777.77	13.22	0.11	0.00	-1.25
3867.00	0.19	240.45	3866.77	13.04	-0.04	0.00	-1.08
3957.00	0.49	296.94	3956.77	13.14	-0.51	0.00	-0.62
4047.00	0.32	216.67	4046.77	13.11	-1.01	0.00	-0.13
4136.00	0.09	174.05	4135.77	12.84	-1.15	0.00	0.04
4226.00	0.18	357.99	4225.77	12.92	-1.14	0.00	0.03
4316.00	0.06	187.51	4315.77	13.01	-1.16	0.00	0.03
4406.00	0.13	312.71	4405.77	13.03	-1.24	0.00	0.11
4495.00	0.03	316.75	4494.76	13.12	-1.33	0.00	0.19
4585.00	0.06	270.32	4584.76	13.14	-1.39	0.00	0.25
4675.00	0.04	221.13	4674.76	13.11	-1.46	0.00	0.32
4764.00	0.03	257.14	4763.76	13.08	-1.50	0.00	0.37
4854.00	0.10	153.19	4853.76	13.01	-1.49	0.00	0.36
4944.00	0.17	260.26	4943.76	12.92	-1.58	0.00	0.47
5033.00	0.06	264.19	5032.76	12.89	-1.76	0.00	0.64
5123.00	0.98	95.10	5122.76	12.82	-1.04	0.00	-0.07
5213.00	3.72	120.95	5212.68	11.25	2.23	0.00	-3.19
5303.00	4.53	150.45	5302.45	6.65	6.49	0.00	-7.04
5392.00	8.38	152.64	5390.87	-2.17	11.20	0.00	-10.97
5417.00	9.50	152.97	5415.57	-5.63	12.98	0.00	-12.45
5482.00	11.96	151.79	5479.43	-16.34	18.60	0.00	-17.12
5572.00	14.43	153.52	5567.05	-34.60	28.01	0.00	-24.93
5662.00	16.59	154.34	5653.76	-56.22	38.57	0.00	-33.59

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
5751.00	19.59	151.99	5738.35	-80.85	51.09	0.00	-43.94
5841.00	22.33	152.74	5822.39	-109.38	66.01	0.00	-56.34
5931.00	24.52	152.81	5904.97	-141.19	82.37	0.00	-69.91
6020.00	27.27	150.42	5985.03	-175.36	100.88	0.00	-85.41
6110.00	30.07	151.83	6063.99	-213.17	121.71	0.00	-102.90
6200.00	32.69	152.21	6140.82	-254.56	143.69	0.00	-121.24
6290.00	31.81	151.04	6216.93	-296.81	166.50	0.00	-140.33
6379.00	33.33	151.24	6291.93	-338.77	189.63	0.00	-159.76
6469.00	33.02	151.63	6367.26	-382.03	213.18	0.00	-179.49
6559.00	33.03	150.98	6442.72	-425.05	236.73	0.00	-199.25
6649.00	32.92	151.14	6518.22	-467.92	260.43	0.00	-219.18
6738.00	30.83	165.57	6593.91	-511.25	277.81	0.00	-232.76
6828.00	31.62	183.54	6671.04	-557.24	282.11	0.00	-233.09
6918.00	33.82	201.46	6746.93	-604.21	271.47	0.00	-218.44
7007.00	37.43	217.28	6819.42	-648.90	245.96	0.00	-189.18
7097.00	44.45	227.68	6887.44	-691.98	206.00	0.00	-145.65
7187.00	51.64	236.37	6947.64	-732.83	153.19	0.00	-89.53
7276.00	58.67	246.14	6998.54	-767.64	89.19	0.00	-22.77
7366.00	64.72	254.68	7041.26	-794.00	14.62	0.00	53.80
7455.00	73.59	260.02	7072.91	-812.07	-66.45	0.00	136.12
7545.00	82.19	264.57	7091.79	-823.80	-153.55	0.00	223.91
7635.00	89.26	267.30	7098.49	-830.15	-243.01	0.00	313.58
7724.00	88.65	272.04	7100.12	-830.66	-331.97	0.00	402.25
7814.00	89.38	271.78	7101.66	-827.66	-421.90	0.00	491.60
7904.00	89.38	271.77	7102.64	-824.88	-511.85	0.00	580.98
7993.00	89.29	271.66	7103.67	-822.21	-600.81	0.00	669.37
8083.00	89.26	271.65	7104.81	-819.61	-690.76	0.00	758.77
8173.00	89.38	271.95	7105.88	-816.79	-780.71	0.00	848.14
8263.00	89.29	271.89	7106.92	-813.77	-870.66	0.00	937.49
8353.00	89.54	271.83	7107.84	-810.85	-960.60	0.00	1026.85
8442.00	89.32	269.99	7108.73	-809.44	-1049.58	0.00	1115.38
8532.00	89.48	270.08	7109.67	-809.38	-1139.58	0.00	1205.04
8622.00	88.49	270.03	7111.26	-809.30	-1229.56	0.00	1294.68
8711.00	88.68	270.35	7113.46	-809.00	-1318.54	0.00	1383.30
8801.00	88.71	270.51	7115.51	-808.32	-1408.51	0.00	1472.88
8891.00	88.34	269.00	7117.83	-808.71	-1498.48	0.00	1562.54
8980.00	89.72	271.86	7119.33	-808.04	-1587.45	0.00	1651.13
9070.00	86.67	269.21	7122.17	-807.20	-1677.38	0.00	1740.65
9160.00	88.46	268.64	7125.99	-808.89	-1767.28	0.00	1830.36
9250.00	89.32	267.99	7127.74	-811.53	-1857.23	0.00	1920.20
9339.00	89.23	267.34	7128.86	-815.16	-1946.14	0.00	2009.10
9429.00	89.78	267.66	7129.64	-819.08	-2036.05	0.00	2099.02
9519.00	89.75	267.10	7130.01	-823.20	-2125.96	0.00	2188.94
9608.00	89.78	269.63	7130.37	-825.74	-2214.91	0.00	2277.79
9698.00	89.78	269.19	7130.72	-826.66	-2304.91	0.00	2367.53
9788.00	89.63	268.72	7131.18	-828.31	-2394.89	0.00	2457.32
9877.00	88.86	268.22	7132.36	-830.68	-2483.85	0.00	2546.15
9967.00	89.20	268.38	7133.88	-833.35	-2573.80	0.00	2635.99
10057.00	89.35	268.80	7135.02	-835.57	-2663.76	0.00	2725.82
10146.00	89.01	268.27	7136.29	-837.84	-2752.73	0.00	2814.64
10236.00	88.68	268.29	7138.11	-840.54	-2842.67	0.00	2904.48
10326.00	88.86	268.63	7140.04	-842.96	-2932.61	0.00	2994.30
10415.00	88.28	268.39	7142.26	-845.27	-3021.56	0.00	3083.11
10505.00	88.52	268.47	7144.77	-847.74	-3111.49	0.00	3172.92
10595.00	88.68	268.47	7146.97	-850.14	-3201.43	0.00	3262.74
10684.00	91.57	268.92	7146.78	-852.17	-3290.39	0.00	3351.55
10774.00	91.32	270.28	7144.51	-852.79	-3380.36	0.00	3441.23
10864.00	91.69	270.27	7142.14	-852.36	-3470.33	0.00	3530.83
10953.00	91.38	270.24	7139.76	-851.97	-3559.30	0.00	3619.43
11043.00	91.69	270.68	7137.35	-851.24	-3649.26	0.00	3709.00
11133.00	91.45	270.24	7134.88	-850.52	-3739.22	0.00	3798.57
11222.00	91.35	269.78	7132.71	-850.51	-3828.20	0.00	3887.21
11312.00	91.38	270.28	7130.56	-850.46	-3918.17	0.00	3976.85
11402.00	91.35	270.02	7128.42	-850.22	-4008.15	0.00	4066.47
11491.00	92.15	270.47	7125.70	-849.84	-4097.10	0.00	4155.06
11581.00	91.97	270.05	7122.47	-849.44	-4187.04	0.00	4244.63
11671.00	92.28	270.65	7119.13	-848.89	-4276.98	0.00	4334.19
11760.00	92.19	270.28	7115.66	-848.16	-4365.91	0.00	4422.72
11850.00	91.82	269.54	7112.51	-848.31	-4455.85	0.00	4512.34
11940.00	91.88	269.62	7109.60	-848.97	-4545.80	0.00	4602.02
12029.00	92.03	269.90	7106.57	-849.34	-4634.75	0.00	4690.67
12119.00	91.72	269.38	7103.62	-849.90	-4724.70	0.00	4780.33
12209.00	91.69	269.45	7100.95	-850.82	-4814.65	0.00	4870.03

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
12299.00	91.63	269.46	7098.34	-851.68	-4904.61	0.00	4959.73
12388.00	91.88	269.65	7095.61	-852.37	-4993.57	0.00	5048.41
12478.00	92.03	269.43	7092.54	-853.09	-5083.51	0.00	5138.09
12568.00	91.91	269.70	7089.45	-853.77	-5173.46	0.00	5227.76
12658.00	91.97	269.85	7086.40	-854.13	-5263.41	0.00	5317.40
12747.00	92.03	270.00	7083.30	-854.24	-5352.35	0.00	5406.03
12837.00	91.08	269.33	7080.85	-854.77	-5442.31	0.00	5495.70
12927.00	91.29	269.23	7078.99	-855.90	-5532.29	0.00	5585.44
13017.00	91.57	270.06	7076.75	-856.46	-5622.26	0.00	5675.12
13106.00	91.48	265.53	7074.38	-859.88	-5711.14	0.00	5763.96
13196.00	90.00	269.21	7073.21	-864.01	-5801.02	0.00	5853.87
13286.00	90.00	268.51	7073.21	-865.80	-5891.00	0.00	5943.67
13375.00	90.15	268.52	7073.10	-868.10	-5979.97	0.00	6032.51
13465.00	90.52	262.26	7072.57	-875.33	-6069.63	0.00	6122.46
13555.00	91.11	263.42	7071.29	-886.55	-6158.92	0.00	6212.38
13644.00	89.60	270.31	7070.74	-891.41	-6247.73	0.00	6301.28
13734.00	89.60	269.36	7071.37	-891.67	-6337.72	0.00	6390.96
13824.00	89.75	269.55	7071.88	-892.53	-6427.72	0.00	6480.70
13914.00	89.82	269.69	7072.22	-893.13	-6517.72	0.00	6570.41
14004.00	90.00	269.93	7072.36	-893.43	-6607.71	0.00	6660.10
14093.00	89.85	269.51	7072.47	-893.86	-6696.71	0.00	6748.81
14183.00	89.69	269.16	7072.83	-894.90	-6786.71	0.00	6838.56
14273.00	89.85	268.95	7073.20	-896.39	-6876.69	0.00	6928.34
14362.00	90.46	270.04	7072.95	-897.17	-6965.69	0.00	7017.07
14452.00	91.14	269.86	7071.70	-897.25	-7055.68	0.00	7106.73
14541.00	90.92	270.10	7070.10	-897.28	-7144.66	0.00	7195.39
14631.00	89.91	269.18	7069.45	-897.85	-7234.66	0.00	7285.10
14721.00	89.29	269.18	7070.07	-899.14	-7324.65	0.00	7374.86
14810.00	89.54	269.59	7070.98	-900.09	-7413.64	0.00	7463.60
14900.00	89.51	269.60	7071.73	-900.73	-7503.63	0.00	7553.32
14990.00	88.52	269.14	7073.28	-901.72	-7593.61	0.00	7643.05
15079.00	90.25	268.68	7074.23	-903.41	-7682.59	0.00	7731.84
15169.00	90.03	268.81	7074.01	-905.38	-7772.56	0.00	7821.65
15259.00	91.82	269.49	7072.56	-906.72	-7862.54	0.00	7911.41
15348.00	91.82	269.85	7069.73	-907.23	-7951.49	0.00	8000.08
15438.00	91.78	270.62	7066.91	-906.86	-8041.45	0.00	8089.66
15528.00	91.54	270.63	7064.30	-905.88	-8131.40	0.00	8179.20
15618.00	91.94	270.52	7061.57	-904.98	-8221.36	0.00	8268.74
15707.00	91.91	270.52	7058.58	-904.17	-8310.30	0.00	8357.29
15797.00	91.88	270.63	7055.60	-903.27	-8400.25	0.00	8446.83
15887.00	92.86	270.90	7051.88	-902.07	-8490.16	0.00	8536.30
15976.00	93.63	270.11	7046.84	-901.28	-8579.01	0.00	8624.76
16066.00	93.54	270.03	7041.21	-901.17	-8668.84	0.00	8714.24
16156.00	93.42	270.61	7035.75	-900.67	-8758.67	0.00	8803.69
16246.00	92.06	268.95	7031.45	-901.02	-8848.56	0.00	8893.28
16335.00	92.86	269.02	7027.63	-902.59	-8937.46	0.00	8981.99
16425.00	93.14	269.26	7022.92	-903.94	-9027.33	0.00	9071.64
16515.00	93.20	269.58	7017.94	-904.85	-9117.19	0.00	9161.24
16604.00	93.17	269.25	7013.00	-905.76	-9206.05	0.00	9249.85
16694.00	92.12	268.71	7008.84	-907.36	-9295.93	0.00	9339.54
16784.00	92.37	268.84	7005.32	-909.28	-9385.85	0.00	9429.28
16874.00	92.34	269.18	7001.62	-910.83	-9475.76	0.00	9518.99
16963.00	91.20	268.79	6998.87	-912.41	-9564.70	0.00	9607.74
17053.00	91.35	269.08	6996.87	-914.08	-9654.66	0.00	9697.51
17143.00	91.26	269.09	6994.82	-915.52	-9744.62	0.00	9787.26
17233.00	91.17	268.95	6992.91	-917.06	-9834.59	0.00	9877.03
17322.00	91.14	268.75	6991.11	-918.84	-9923.56	0.00	9965.82
17412.00	91.14	268.65	6989.32	-920.89	-10013.51	0.00	10055.62
17502.00	91.08	268.64	6987.58	-923.01	-10103.47	0.00	10145.42
17591.00	91.08	268.61	6985.90	-925.15	-10192.43	0.00	10234.24
17681.00	91.14	268.38	6984.16	-927.51	-10282.38	0.00	10324.06
17771.00	89.72	269.86	6983.48	-928.89	-10372.36	0.00	10413.82
17860.00	89.75	269.63	6983.90	-929.29	-10461.36	0.00	10502.53
17950.00	89.48	269.00	6984.50	-930.37	-10551.35	0.00	10592.28
18040.00	89.69	269.31	6985.15	-931.69	-10641.34	0.00	10682.04
18129.00	89.78	269.09	6985.56	-932.94	-10730.33	0.00	10770.81
18191.00	89.38	268.61	6986.02	-934.18	-10792.32	0.00	10832.67
18215.00	89.38	268.61	6986.28	-934.76	-10816.31	0.00	10856.63