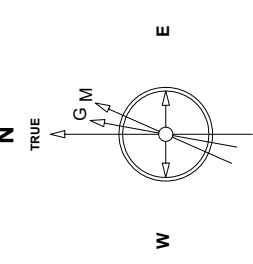


Great Western Operating Company, LLC

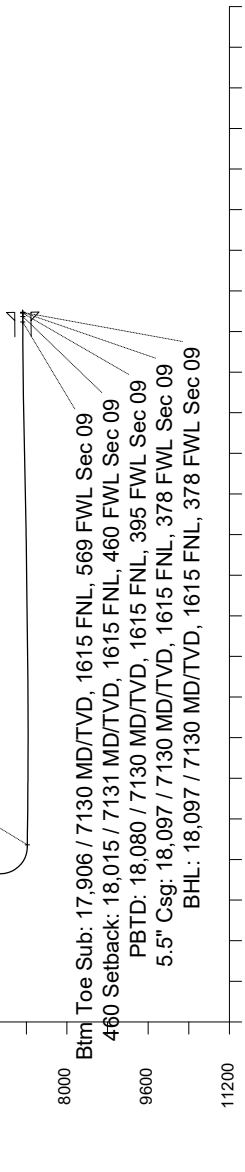
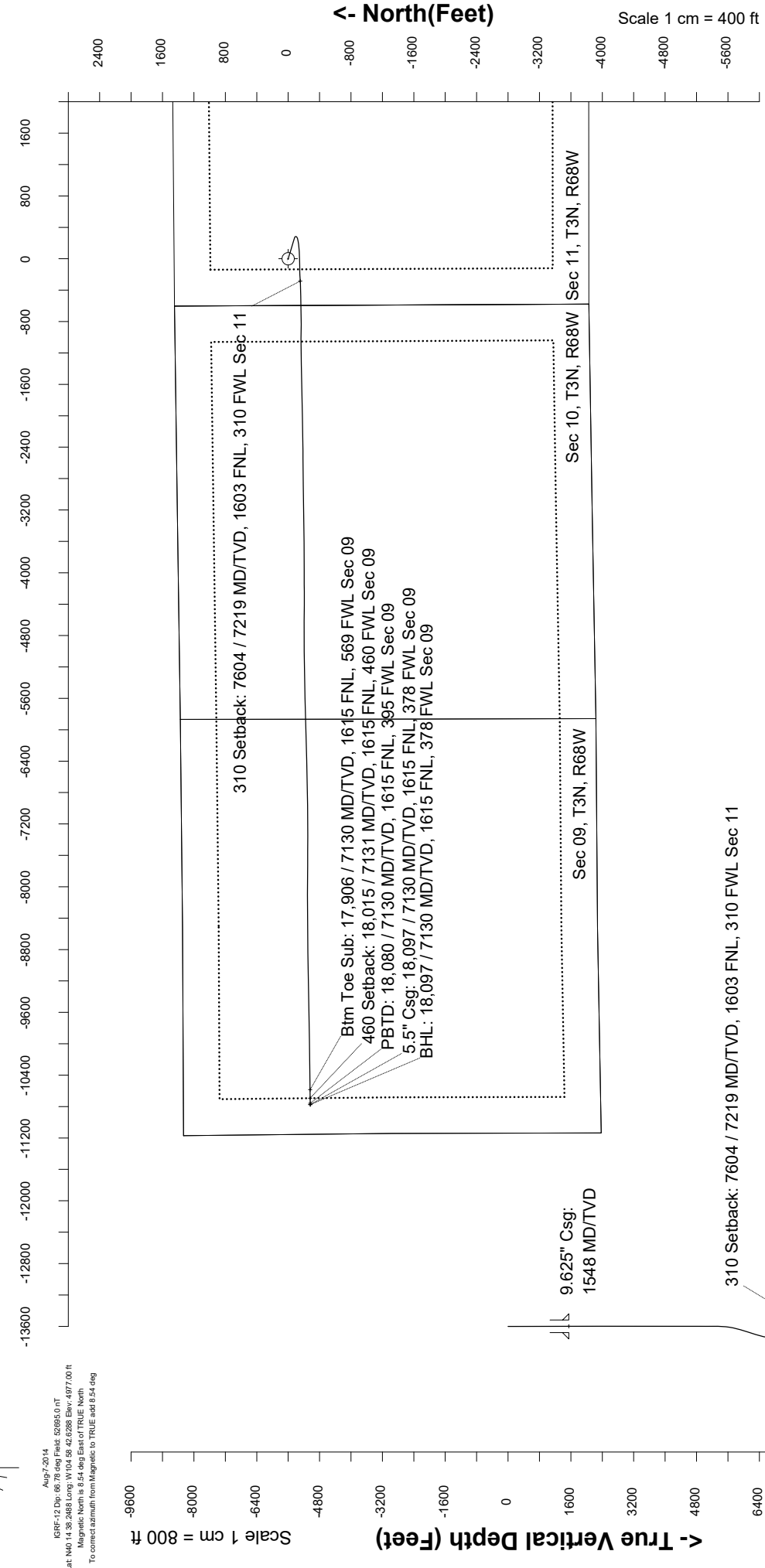
Location	Colorado	Slot	N17 - Postle IC 09-102HN
Field	Wattenburg	Well	Postle IC 09-102HN
Installation	Postle West	Wellbore	Postle IC 09-102HN (AWB)

Created by: rmount
 Date plotted: 4-May-2020
 Plot reference is Postle IC 09-102HN (AWB).
 Ref wellpath is Postle IC 09-102HN (AWP#1).
 Coordinates are in Feet reference N17 - Postle IC 09-102HN.
 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
 IGRF-12.Dat (62.78 deg Field) S2685.0.T
 Lat: N40 14.38 2488 Long: W104 58 42.628 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



Scale 1 cm = 800 ft
Vertical Section (Feet) ->
 Azimuth 268.50 with reference 0.00 N, 0.00 E from N17 - Postle IC 09-102HN

Great Western Operating Co, LLC
 Directional Survey Report
 Wellpath: Postle IC 09-102HN
 MDs and TVDs are from Rig Floor 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
14.00	0.00	98.03	14.00	0.00	0.00	0.00	0.00
92.00	0.57	98.03	92.00	-0.05	0.38	0.00	-0.38
180.00	0.26	120.62	180.00	-0.22	0.99	0.00	-0.98
272.00	0.26	73.33	272.00	-0.26	1.37	0.00	-1.36
364.00	0.13	250.70	364.00	-0.24	1.47	0.00	-1.46
454.00	0.18	278.03	453.99	-0.25	1.23	0.00	-1.23
544.00	0.44	305.63	543.99	-0.03	0.81	0.00	-0.81
634.00	0.26	286.47	633.99	0.23	0.34	0.00	-0.34
724.00	0.04	168.78	723.99	0.26	0.15	0.00	-0.15
813.00	0.13	278.03	812.99	0.24	0.05	0.00	-0.06
903.00	0.40	273.20	902.99	0.27	-0.36	0.00	0.35
993.00	0.53	243.40	992.99	0.10	-1.05	0.00	1.04
1083.00	0.26	233.56	1082.99	-0.21	-1.58	0.00	1.59
1173.00	0.18	196.56	1172.98	-0.46	-1.79	0.00	1.80
1263.00	0.18	89.68	1262.98	-0.60	-1.69	0.00	1.70
1353.00	0.09	57.34	1352.98	-0.56	-1.49	0.00	1.50
1443.00	0.22	36.95	1442.98	-0.38	-1.32	0.00	1.33
1497.00	0.62	15.32	1496.98	-0.02	-1.18	0.00	1.18
1620.00	0.07	311.63	1619.98	0.67	-1.06	0.00	1.05
1709.00	0.35	243.82	1708.98	0.59	-1.35	0.00	1.33
1799.00	0.43	140.50	1798.98	0.21	-1.38	0.00	1.37
1889.00	0.03	254.28	1888.98	-0.06	-1.19	0.00	1.19
1978.00	0.38	192.94	1977.98	-0.35	-1.28	0.00	1.29
2067.00	0.03	285.30	2066.98	-0.63	-1.37	0.00	1.38
2157.00	0.03	98.54	2156.98	-0.63	-1.37	0.00	1.38
2246.00	0.65	305.12	2245.97	-0.34	-1.75	0.00	1.76
2335.00	0.07	269.69	2334.97	-0.05	-2.22	0.00	2.22
2425.00	0.44	19.29	2424.97	0.27	-2.16	0.00	2.16
2514.00	0.58	288.34	2513.97	0.74	-2.48	0.00	2.46
2604.00	0.03	127.58	2603.97	0.87	-2.89	0.00	2.87
2693.00	0.12	222.93	2692.97	0.78	-2.94	0.00	2.92
2783.00	0.22	314.61	2782.97	0.83	-3.12	0.00	3.10
2873.00	0.13	263.76	2872.97	0.95	-3.35	0.00	3.32
2963.00	0.17	240.53	2962.97	0.87	-3.57	0.00	3.54
3052.00	0.03	227.66	3051.97	0.79	-3.70	0.00	3.68
3141.00	0.10	218.17	3140.97	0.71	-3.76	0.00	3.74
3231.00	0.22	235.41	3230.97	0.55	-3.95	0.00	3.94
3321.00	1.05	293.02	3320.96	0.78	-4.86	0.00	4.83
3410.00	2.65	48.12	3409.93	2.47	-4.07	0.00	4.01
3499.00	0.11	250.21	3498.90	3.81	-2.62	0.00	2.52
3589.00	0.25	162.18	3588.90	3.60	-2.64	0.00	2.55
3679.00	0.07	151.76	3678.90	3.36	-2.56	0.00	2.47
3768.00	2.46	156.70	3767.87	1.56	-1.78	0.00	1.73
3858.00	0.21	24.97	3857.84	-0.07	-0.94	0.00	0.94
3947.00	0.60	263.39	3946.84	0.03	-1.34	0.00	1.33
4037.00	0.38	153.51	4036.84	-0.29	-1.67	0.00	1.68
4126.00	0.53	307.27	4125.84	-0.31	-1.87	0.00	1.87
4215.00	0.18	116.49	4214.84	-0.12	-2.07	0.00	2.07
4305.00	0.07	129.72	4304.84	-0.22	-1.90	0.00	1.91
4395.00	0.24	266.67	4394.84	-0.26	-2.05	0.00	2.05
4484.00	0.06	33.61	4483.84	-0.24	-2.21	0.00	2.21
4574.00	0.19	268.54	4573.84	-0.20	-2.33	0.00	2.33
4663.00	0.13	34.82	4662.84	-0.12	-2.42	0.00	2.42
4753.00	0.03	125.84	4752.84	-0.05	-2.34	0.00	2.34
4843.00	0.06	184.89	4842.84	-0.11	-2.33	0.00	2.33
4932.00	0.09	5.94	4931.84	-0.09	-2.32	0.00	2.33
5022.00	0.09	347.94	5021.84	0.05	-2.33	0.00	2.33
5111.00	0.07	318.28	5110.84	0.16	-2.38	0.00	2.38
5201.00	0.10	157.30	5200.84	0.13	-2.39	0.00	2.38
5291.00	0.03	117.89	5290.84	0.04	-2.34	0.00	2.34
5380.00	1.78	100.46	5379.82	-0.22	-0.96	0.00	0.96
5469.00	4.60	103.76	5468.67	-1.32	3.87	0.00	-3.83
5559.00	6.77	105.76	5558.23	-3.62	12.48	0.00	-12.38
5649.00	9.54	106.36	5647.31	-7.16	24.74	0.00	-24.55

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
5738.00	12.04	107.92	5734.73	-12.09	40.66	0.00	-40.33
5828.00	14.61	107.89	5822.30	-18.47	60.39	0.00	-59.89
5918.00	17.69	108.61	5908.74	-26.32	84.16	0.00	-83.44
6007.00	18.00	106.67	5993.45	-34.58	110.15	0.00	-109.21
6097.00	17.94	106.27	6079.06	-42.46	136.78	0.00	-135.62
6187.00	17.86	106.49	6164.71	-50.26	163.31	0.00	-161.95
6276.00	17.96	106.62	6249.39	-58.05	189.55	0.00	-187.97
6366.00	17.77	106.29	6335.05	-65.88	216.03	0.00	-214.23
6455.00	17.76	106.50	6419.81	-73.54	242.08	0.00	-240.08
6545.00	15.27	108.23	6506.09	-81.15	266.50	0.00	-264.29
6634.00	4.01	140.71	6593.74	-87.25	279.65	0.00	-277.28
6724.00	7.65	165.85	6683.27	-95.49	283.11	0.00	-280.52
6813.00	12.81	221.81	6771.02	-108.63	277.97	0.00	-275.04
6903.00	19.15	256.03	6857.68	-119.66	256.92	0.00	-253.71
6992.00	29.26	258.91	6938.75	-127.39	221.32	0.00	-217.92
7082.00	37.61	263.70	7013.80	-134.65	172.34	0.00	-168.77
7171.00	46.72	266.27	7079.71	-139.75	112.89	0.00	-109.20
7261.00	57.53	266.97	7134.88	-143.90	42.08	0.00	-38.31
7350.00	67.38	269.57	7175.99	-146.20	-36.69	0.00	40.50
7439.00	76.05	269.45	7203.89	-146.92	-121.12	0.00	124.91
7529.00	86.27	267.30	7217.70	-149.46	-209.89	0.00	213.72
7574.00	90.37	266.50	7219.02	-151.90	-254.79	0.00	258.67
7618.00	89.82	265.95	7218.95	-154.79	-298.70	0.00	302.64
7708.00	89.38	269.52	7219.58	-158.35	-388.61	0.00	392.61
7798.00	89.14	268.55	7220.74	-159.87	-478.59	0.00	482.60
7887.00	88.92	269.32	7222.25	-161.52	-567.56	0.00	571.58
7976.00	89.26	267.80	7223.66	-163.76	-656.52	0.00	660.57
8066.00	89.35	270.71	7224.75	-164.93	-746.49	0.00	750.54
8156.00	88.92	268.20	7226.11	-165.78	-836.47	0.00	840.51
8245.00	89.51	272.74	7227.33	-165.05	-925.44	0.00	929.43
8335.00	89.57	269.21	7228.05	-163.52	-1015.41	0.00	1019.33
8424.00	89.85	270.49	7228.50	-163.75	-1104.40	0.00	1108.30
8514.00	89.48	268.36	7229.03	-164.66	-1194.39	0.00	1198.28
8603.00	89.45	268.39	7229.86	-167.18	-1283.35	0.00	1287.28
8693.00	89.85	269.84	7230.41	-168.57	-1373.34	0.00	1377.27
8782.00	89.69	268.46	7230.77	-169.89	-1462.32	0.00	1466.26
8872.00	89.32	268.54	7231.55	-172.25	-1552.29	0.00	1556.26
8961.00	89.75	269.24	7232.27	-173.97	-1641.27	0.00	1645.25
9051.00	89.54	268.62	7232.83	-175.65	-1731.25	0.00	1735.25
9141.00	89.63	268.48	7233.48	-177.93	-1821.22	0.00	1825.24
9230.00	89.91	269.99	7233.83	-179.12	-1910.21	0.00	1914.23
9319.00	89.60	268.73	7234.21	-180.11	-1999.20	0.00	2003.22
9409.00	89.35	268.46	7235.04	-182.32	-2089.17	0.00	2093.22
9498.00	89.94	269.69	7235.59	-183.75	-2178.15	0.00	2182.21
9588.00	89.91	269.11	7235.71	-184.70	-2268.15	0.00	2272.20
9677.00	90.03	268.81	7235.76	-186.31	-2357.13	0.00	2361.19
9767.00	89.91	268.94	7235.80	-188.08	-2447.12	0.00	2451.19
9857.00	90.28	269.51	7235.65	-189.30	-2537.11	0.00	2541.18
9946.00	89.48	268.92	7235.84	-190.52	-2626.10	0.00	2630.18
10036.00	90.15	269.88	7236.13	-191.46	-2716.09	0.00	2720.16
10125.00	90.12	269.35	7235.92	-192.06	-2805.09	0.00	2809.15
10215.00	90.58	269.59	7235.37	-192.89	-2895.08	0.00	2899.13
10305.00	90.62	269.64	7234.43	-193.49	-2985.07	0.00	2989.11
10394.00	90.28	269.15	7233.73	-194.43	-3074.07	0.00	3078.10
10483.00	90.52	269.48	7233.11	-195.50	-3163.06	0.00	3167.08
10573.00	90.00	268.47	7232.70	-197.11	-3253.04	0.00	3257.08
10662.00	90.77	269.20	7232.10	-198.92	-3342.02	0.00	3346.07
10752.00	90.06	268.82	7231.45	-200.47	-3432.00	0.00	3436.07
10842.00	90.55	269.19	7230.97	-202.03	-3521.99	0.00	3526.06
10932.00	90.98	270.05	7229.77	-202.63	-3611.98	0.00	3616.04
11021.00	91.08	269.99	7228.17	-202.60	-3700.96	0.00	3704.99
11111.00	89.82	269.13	7227.46	-203.29	-3790.95	0.00	3794.97
11200.00	90.65	269.65	7227.10	-204.24	-3879.95	0.00	3883.96
11290.00	91.05	269.84	7225.76	-204.64	-3969.94	0.00	3973.93
11380.00	91.02	269.99	7224.14	-204.77	-4059.92	0.00	4063.88
11469.00	90.62	269.59	7222.86	-205.10	-4148.91	0.00	4152.85
11559.00	90.46	269.78	7222.01	-205.59	-4238.91	0.00	4242.83
11649.00	90.68	270.35	7221.12	-205.49	-4328.90	0.00	4332.79
11738.00	90.28	269.90	7220.37	-205.30	-4417.90	0.00	4421.75
11828.00	90.68	270.59	7219.62	-204.91	-4507.89	0.00	4511.71
11918.00	90.62	270.54	7218.60	-204.03	-4597.88	0.00	4601.64
12007.00	90.58	270.38	7217.67	-203.31	-4686.87	0.00	4690.59

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
12097.00	90.68	270.15	7216.68	-202.89	-4776.87	0.00	4780.54
12186.00	90.58	270.45	7215.70	-202.43	-4865.86	0.00	4869.49
12276.00	90.62	269.99	7214.76	-202.08	-4955.86	0.00	4959.44
12365.00	90.65	268.51	7213.77	-203.25	-5044.84	0.00	5048.43
12455.00	90.74	268.74	7212.68	-205.41	-5134.81	0.00	5138.42
12544.00	91.14	268.94	7211.22	-207.21	-5223.78	0.00	5227.41
12633.00	91.02	268.72	7209.54	-209.03	-5312.74	0.00	5316.39
12723.00	90.62	268.54	7208.25	-211.18	-5402.71	0.00	5406.38
12813.00	90.71	267.29	7207.21	-214.45	-5492.64	0.00	5496.37
12902.00	91.14	269.00	7205.77	-217.33	-5581.58	0.00	5585.35
12992.00	91.23	269.08	7203.91	-218.84	-5671.55	0.00	5675.33
13081.00	89.88	268.89	7203.05	-220.42	-5760.53	0.00	5764.32
13171.00	90.28	268.95	7202.92	-222.11	-5850.51	0.00	5854.31
13260.00	90.49	268.71	7202.32	-223.93	-5939.49	0.00	5943.31
13350.00	90.68	268.68	7201.40	-225.98	-6029.46	0.00	6033.31
13439.00	90.86	269.17	7200.21	-227.65	-6118.44	0.00	6122.29
13529.00	91.14	267.97	7198.64	-229.89	-6208.39	0.00	6212.28
13619.00	91.26	269.04	7196.75	-232.24	-6298.34	0.00	6302.26
13708.00	90.83	267.75	7195.13	-234.73	-6387.29	0.00	6391.24
13797.00	90.86	267.09	7193.82	-238.74	-6476.19	0.00	6480.22
13887.00	91.60	269.43	7191.89	-241.47	-6566.12	0.00	6570.19
13976.00	91.11	270.70	7189.78	-241.37	-6655.09	0.00	6659.13
14066.00	90.92	268.11	7188.19	-242.31	-6745.07	0.00	6749.09
14155.00	90.95	268.99	7186.73	-244.56	-6834.03	0.00	6838.08
14245.00	90.89	268.60	7185.29	-246.45	-6923.99	0.00	6928.07
14335.00	91.20	269.35	7183.65	-248.06	-7013.96	0.00	7018.05
14424.00	90.92	268.53	7182.00	-249.71	-7102.93	0.00	7107.03
14514.00	91.11	270.72	7180.41	-250.29	-7192.91	0.00	7196.99
14604.00	90.92	269.32	7178.81	-250.26	-7282.89	0.00	7286.95
14693.00	91.60	270.58	7176.85	-250.34	-7371.87	0.00	7375.89
14783.00	91.42	270.45	7174.48	-249.53	-7461.84	0.00	7465.81
14873.00	91.51	270.82	7172.18	-248.54	-7551.80	0.00	7555.72
14962.00	91.63	269.12	7169.74	-248.58	-7640.76	0.00	7644.65
15052.00	90.62	270.81	7167.98	-248.64	-7730.74	0.00	7734.60
15142.00	90.28	270.19	7167.27	-247.85	-7820.74	0.00	7824.54
15231.00	90.68	270.27	7166.52	-247.49	-7909.73	0.00	7913.50
15321.00	90.77	269.93	7165.39	-247.34	-7999.72	0.00	8003.45
15411.00	90.77	270.07	7164.18	-247.34	-8089.72	0.00	8093.42
15500.00	90.83	269.91	7162.93	-247.35	-8178.71	0.00	8182.38
15590.00	91.23	268.91	7161.32	-248.28	-8268.69	0.00	8272.35
15680.00	91.54	270.16	7159.14	-249.01	-8358.65	0.00	8362.31
15769.00	91.97	270.76	7156.41	-248.30	-8447.61	0.00	8451.21
15859.00	92.09	270.83	7153.23	-247.05	-8537.54	0.00	8541.08
15949.00	91.02	270.10	7150.78	-246.32	-8627.51	0.00	8631.00
16038.00	91.23	268.92	7149.04	-247.08	-8716.48	0.00	8719.96
16128.00	90.77	268.83	7147.47	-248.84	-8806.45	0.00	8809.95
16217.00	90.34	268.59	7146.60	-250.85	-8895.43	0.00	8898.94
16307.00	90.68	268.69	7145.80	-252.98	-8985.40	0.00	8988.94
16396.00	91.02	268.98	7144.48	-254.79	-9074.37	0.00	9077.93
16486.00	90.89	269.04	7142.98	-256.35	-9164.34	0.00	9167.91
16575.00	90.71	268.99	7141.74	-257.88	-9253.32	0.00	9256.90
16664.00	90.55	268.22	7140.76	-260.04	-9342.29	0.00	9345.89
16754.00	91.94	269.68	7138.81	-261.69	-9432.25	0.00	9435.86
16843.00	91.05	267.78	7136.48	-263.67	-9521.19	0.00	9524.83
16933.00	91.20	269.10	7134.72	-266.12	-9611.14	0.00	9614.81
17022.00	90.95	268.79	7133.05	-267.75	-9700.11	0.00	9703.79
17112.00	90.49	270.10	7131.92	-268.63	-9790.09	0.00	9793.77
17201.00	90.25	269.90	7131.34	-268.63	-9879.09	0.00	9882.74
17291.00	90.55	269.69	7130.71	-268.95	-9969.09	0.00	9972.71
17380.00	90.00	268.49	7130.28	-270.36	-10058.07	0.00	10061.70
17469.00	89.82	269.14	7130.42	-272.20	-10147.05	0.00	10150.70
17559.00	89.91	269.05	7130.64	-273.62	-10237.04	0.00	10240.70
17649.00	89.88	268.21	7130.80	-275.77	-10327.02	0.00	10330.70
17738.00	90.06	268.87	7130.85	-278.04	-10415.99	0.00	10419.70
17828.00	90.40	269.39	7130.49	-279.41	-10505.98	0.00	10509.69
17917.00	89.75	269.74	7130.37	-280.08	-10594.97	0.00	10598.67
18006.00	89.94	269.77	7130.61	-280.47	-10683.97	0.00	10687.65
18072.00	90.68	269.15	7130.25	-281.09	-10774.97	0.00	10778.64
18097.00	90.68	269.15	7129.96	-281.46	-10774.96	0.00	10778.64