

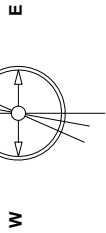
Great Western Operating Company, LLC

Location Colorado
 Field Wattenburg
 Installation Seltzer

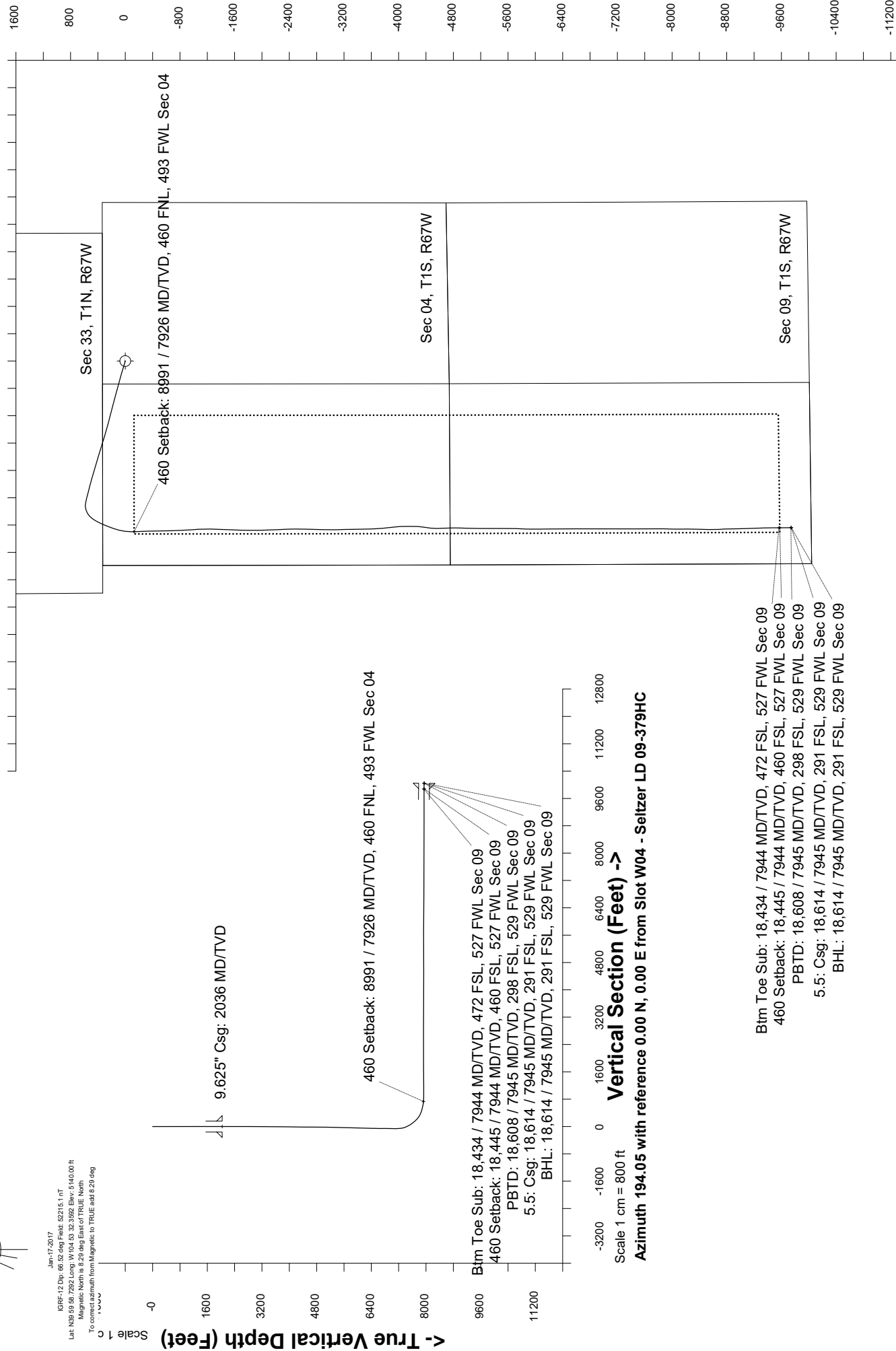
Slot Slot W04 - Seltzer LD 09-379HC
 Well Seltzer LD 09-379HC
 Wellbore Seltzer LD 09-379HC (AWB)

Scale 1 cm = 400 ft
 East (Feet) ->

Created by: rnsour
 Date plotted: 30-Jun-2021
 Plot reference is Seltzer LD 09-379HC (AWB)
 Ref Wellpath is Seltzer LD 09-379HC (AWB#1)
 Coordinates are in Feet reference Slot W04 - Seltzer LD 09-379HC.
 True Vertical Depths are reference Rig Datum.
 Measured Depths are reference Rig Datum.
 Rig Datum: Actual Datum #1
 Rig Datum to Mean Sea Level: 5160.00 ft.
 Plot North is aligned to TRUE North.



Jan-17-2017
 IGRF-12 Dip: 66.52 deg Field: 52215.1 nT
 Lat: N39 58 7292 Long: W104 53 32-3562 Elev: 5140.00 ft
 Magnetic North is 6.25 deg East of TRUE North
 To correct azimuth from Magnetic to TRUE add 6.25 deg



North(Feet)

9600
11200

Btm Toe Sub: 18,434 / 7944 MD/TVD, 472 FSL, 527 FWL Sec 09
 460 Setback: 18,445 / 7944 MD/TVD, 460 FSL, 527 FWL Sec 09
 PBTD: 18,608 / 7945 MD/TVD, 298 FSL, 529 FWL Sec 09
 5.5: Csg: 18,614 / 7945 MD/TVD, 291 FSL, 529 FWL Sec 09
 BHL: 18,614 / 7945 MD/TVD, 291 FSL, 529 FWL Sec 09

-3200 -1600 0 1600 3200 4800 6400 8000 9600 11200 12800

Scale 1 cm = 800 ft
 Vertical Section (Feet) ->
 Azimuth 194.05 with reference 0.00 N, 0.00 E from Slot W04 - Seltzer LD 09-379HC

Btm Toe Sub: 18,434 / 7944 MD/TVD, 472 FSL, 527 FWL Sec 09
 460 Setback: 18,445 / 7944 MD/TVD, 460 FSL, 527 FWL Sec 09
 PBTD: 18,608 / 7945 MD/TVD, 298 FSL, 529 FWL Sec 09
 5.5: Csg: 18,614 / 7945 MD/TVD, 291 FSL, 529 FWL Sec 09
 BHL: 18,614 / 7945 MD/TVD, 291 FSL, 529 FWL Sec 09

Great Western Operating Co, LLC
Directional Survey Report
MDs and TVDs are from Rig Floor 5160.0ft above Mean Sea Level

Wellbore Information

Date Created	Date Revised	API #	RKB above GL	Well Name
Mar-12-2021	Jun-29-2021	05-001-10193	20.00	Seltzer LD 09-379HC

Wellpath Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]
0.00	0.00	0.00	0.00	0.00	0.00
15.00	0.00	0.00	15.00	0.00	0.00
99.00	0.07	311.47	99.00	0.03	-0.04
187.00	0.68	322.82	187.00	0.49	-0.39
276.00	0.44	156.34	276.00	0.59	-0.58
369.00	0.07	208.74	369.00	0.22	-0.46
458.00	0.54	176.66	457.99	-0.25	-0.46
548.00	0.43	322.91	547.99	-0.40	-0.64
638.00	0.40	288.56	637.99	-0.03	-1.14
728.00	0.15	272.58	727.99	0.07	-1.56
818.00	0.27	48.43	817.99	0.22	-1.52
908.00	0.03	95.80	907.99	0.36	-1.33
998.00	0.38	133.95	997.99	0.15	-1.10
1088.00	0.12	177.25	1087.99	-0.16	-0.88
1178.00	0.03	329.26	1177.99	-0.23	-0.88
1268.00	0.18	168.72	1267.99	-0.35	-0.87
1358.00	0.27	82.73	1357.99	-0.46	-0.63
1448.00	0.24	41.63	1447.99	-0.29	-0.30
1538.00	0.38	3.53	1537.98	0.15	-0.15
1627.00	0.56	349.48	1626.98	0.87	-0.21
1717.00	0.54	356.74	1716.98	1.72	-0.32
1807.00	0.23	305.25	1806.97	2.25	-0.49
1897.00	0.24	295.43	1896.97	2.44	-0.81
1981.00	0.64	120.00	1980.97	2.28	-0.56
2046.00	0.69	97.43	2045.97	2.05	0.14
2135.00	0.10	316.92	2134.97	2.03	0.62
2225.00	0.11	270.05	2224.97	2.09	0.48
2315.00	0.07	154.14	2314.97	2.04	0.42
2404.00	0.08	145.44	2403.97	1.94	0.48
2494.00	0.08	133.92	2493.97	1.85	0.56
2583.00	0.06	140.86	2582.97	1.77	0.63
2673.00	0.11	43.44	2672.97	1.79	0.72
2763.00	0.09	188.47	2762.97	1.79	0.77
2852.00	0.11	31.02	2851.97	1.79	0.80
2942.00	0.08	323.07	2941.97	1.91	0.81
3031.00	1.82	279.70	3030.95	2.20	-0.62
3121.00	3.70	277.39	3120.84	2.82	-4.91
3211.00	5.66	278.85	3210.54	3.87	-12.17
3300.00	7.66	284.69	3298.93	6.05	-22.25
3389.00	10.73	287.80	3386.78	10.09	-35.88
3479.00	13.80	288.31	3474.72	16.03	-54.05
3568.00	18.72	286.66	3560.13	23.46	-77.83
3658.00	21.79	286.06	3644.55	32.22	-107.72
3747.00	24.68	286.94	3726.33	42.21	-141.38
3837.00	27.98	286.66	3806.98	53.74	-179.59
3926.00	29.59	285.36	3884.98	65.55	-220.78
4016.00	29.65	285.20	3963.22	77.27	-263.69
4106.00	29.83	285.91	4041.36	89.24	-306.70
4195.00	29.97	285.23	4118.52	101.15	-349.44
4285.00	30.12	284.85	4196.43	112.84	-392.96
4375.00	30.06	284.95	4274.30	124.44	-436.56
4464.00	29.36	285.04	4351.60	135.86	-479.17
4554.00	29.53	285.55	4429.97	147.53	-521.84
4643.00	30.30	284.91	4507.11	159.19	-564.67
4733.00	30.48	284.48	4584.75	170.73	-608.71
4823.00	30.53	285.20	4662.29	182.44	-652.87
4912.00	30.43	284.65	4738.99	194.06	-696.49
5002.00	30.53	284.67	4816.55	205.62	-740.66
5092.00	30.67	284.73	4894.02	217.24	-784.97
5181.00	30.86	284.41	4970.50	228.69	-829.03
5271.00	30.57	284.79	5047.87	240.28	-873.52
5361.00	30.36	284.39	5125.45	251.78	-917.67
5450.00	30.29	285.59	5202.27	263.40	-961.08
5540.00	30.03	285.39	5280.08	275.47	-1004.66

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]
5629.00	29.99	285.51	5357.15	287.33	-1047.56
5719.00	30.14	286.74	5435.05	299.85	-1090.87
5808.00	30.21	287.27	5511.99	312.94	-1133.65
5898.00	30.20	286.78	5589.77	326.19	-1176.95
5987.00	30.05	287.90	5666.75	339.51	-1219.58
6077.00	29.87	287.01	5744.72	352.99	-1262.46
6166.00	30.01	287.38	5821.84	366.12	-1304.89
6256.00	30.16	286.56	5899.72	379.29	-1348.04
6346.00	30.12	286.70	5977.55	392.22	-1391.34
6435.00	29.89	286.35	6054.62	404.88	-1434.01
6525.00	29.84	286.72	6132.67	417.63	-1476.97
6615.00	30.03	286.47	6210.66	430.46	-1520.01
6705.00	29.90	286.21	6288.63	443.11	-1563.15
6794.00	29.01	286.21	6366.13	455.33	-1605.17
6884.00	30.01	286.78	6444.45	467.92	-1647.68
6974.00	29.88	286.02	6522.44	480.60	-1690.78
7063.00	29.91	285.50	6599.60	492.65	-1733.47
7153.00	29.99	285.76	6677.58	504.75	-1776.74
7243.00	29.90	284.87	6755.56	516.62	-1820.06
7332.00	30.04	283.79	6832.66	527.62	-1863.14
7421.00	29.82	284.52	6909.79	538.48	-1906.20
7511.00	30.15	283.89	6987.75	549.52	-1949.80
7601.00	29.01	284.23	7066.02	560.31	-1992.90
7690.00	28.98	284.45	7143.86	570.99	-2034.69
7780.00	30.67	281.60	7221.94	581.05	-2078.30
7869.00	33.98	266.85	7297.26	584.25	-2125.45
7959.00	36.05	253.24	7371.08	575.22	-2176.01
8049.00	35.63	241.05	7444.13	554.87	-2224.37
8138.00	35.83	228.54	7516.48	525.03	-2266.63
8228.00	37.52	217.75	7588.73	485.88	-2303.19
8317.00	42.84	209.62	7656.76	438.08	-2334.78
8407.00	46.45	205.71	7720.79	382.06	-2364.07
8496.00	52.97	203.71	7778.31	320.41	-2392.38
8586.00	62.35	202.20	7826.41	250.45	-2421.95
8675.00	71.22	198.39	7861.47	173.80	-2450.20
8765.00	75.95	194.85	7886.90	91.10	-2474.85
8854.00	78.85	187.45	7906.34	5.95	-2491.60
8944.00	82.50	180.70	7920.93	-82.57	-2497.88
9034.00	87.06	177.02	7929.12	-172.14	-2496.09
9123.00	89.30	177.36	7931.95	-260.98	-2491.73
9213.00	89.26	178.62	7933.08	-350.92	-2488.57
9302.00	89.34	179.02	7934.17	-439.89	-2486.74
9392.00	90.39	179.22	7934.38	-529.88	-2485.36
9482.00	90.51	179.31	7933.67	-619.87	-2484.20
9572.00	90.44	177.63	7932.93	-709.83	-2481.80
9661.00	90.52	177.40	7932.18	-798.74	-2477.94
9751.00	90.50	177.03	7931.38	-888.63	-2473.57
9840.00	90.28	177.27	7930.77	-977.52	-2469.14
9930.00	90.00	177.09	7930.55	-1067.41	-2464.72
10020.00	91.35	177.45	7929.49	-1157.30	-2460.43
10109.00	90.78	178.81	7927.84	-1246.24	-2457.53
10199.00	91.61	181.15	7925.96	-1336.21	-2457.49
10289.00	89.65	185.54	7924.97	-1426.02	-2462.74
10379.00	90.73	183.54	7924.67	-1515.73	-2469.87
10468.00	89.75	181.20	7924.30	-1604.65	-2473.55
10558.00	89.49	179.75	7924.90	-1694.64	-2474.29
10648.00	88.51	182.38	7926.47	-1784.60	-2475.97
10737.00	89.93	178.90	7927.68	-1873.57	-2476.96
10827.00	88.52	180.05	7928.90	-1963.56	-2476.13
10917.00	89.26	177.06	7930.64	-2053.50	-2473.87
11007.00	89.67	178.99	7931.48	-2143.44	-2470.76
11096.00	90.03	176.18	7931.72	-2232.35	-2467.01
11186.00	90.40	178.45	7931.38	-2322.25	-2462.80
11275.00	89.67	177.94	7931.32	-2411.20	-2460.00
11365.00	90.35	178.86	7931.31	-2501.17	-2457.48
11454.00	89.51	182.54	7931.42	-2590.14	-2458.57
11544.00	90.01	180.48	7931.79	-2680.11	-2460.94
11634.00	90.28	182.46	7931.57	-2770.07	-2463.25
11723.00	90.34	180.30	7931.08	-2859.04	-2465.39
11813.00	89.87	181.26	7930.92	-2949.03	-2466.62
11902.00	89.67	180.55	7931.28	-3038.02	-2468.02
11992.00	90.41	178.22	7931.21	-3128.00	-2467.06
12081.00	90.07	177.91	7930.84	-3216.95	-2464.05
12171.00	90.41	179.85	7930.46	-3306.93	-2462.29
12260.00	89.51	179.64	7930.53	-3395.93	-2461.90

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]
12350.00	90.63	178.01	7930.42	-3485.90	-2460.05
12439.00	90.07	179.17	7929.87	-3574.87	-2457.86
12529.00	90.00	176.89	7929.82	-3664.82	-2454.77
12618.00	90.26	173.80	7929.62	-3753.51	-2447.55
12708.00	89.38	174.52	7929.90	-3843.04	-2438.39
12798.00	89.38	173.82	7930.87	-3932.57	-2429.25
12887.00	89.22	176.89	7931.96	-4021.26	-2422.04
12977.00	88.62	180.11	7933.66	-4111.20	-2419.69
13066.00	90.34	179.87	7934.46	-4200.19	-2419.67
13156.00	89.40	183.38	7934.67	-4290.14	-2422.22
13246.00	89.87	189.85	7935.24	-4379.49	-2432.58
13335.00	91.09	186.38	7934.50	-4467.58	-2445.15
13425.00	91.46	179.57	7932.49	-4557.39	-2449.81
13514.00	90.15	176.96	7931.24	-4646.33	-2447.12
13604.00	89.84	179.17	7931.25	-4736.27	-2444.08
13694.00	90.53	179.06	7930.96	-4826.26	-2442.69
13784.00	90.47	182.17	7930.17	-4916.24	-2443.66
13873.00	89.63	180.74	7930.10	-5005.21	-2445.92
13963.00	90.42	179.45	7930.06	-5095.21	-2446.06
14052.00	89.17	182.93	7930.37	-5184.17	-2447.91
14142.00	90.51	180.92	7930.63	-5274.11	-2450.94
14231.00	89.32	180.48	7930.76	-5363.10	-2452.02
14321.00	88.82	178.60	7932.22	-5453.09	-2451.30
14411.00	88.84	178.71	7934.06	-5543.04	-2449.19
14500.00	89.26	180.63	7935.53	-5632.02	-2448.68
14590.00	90.05	182.91	7936.07	-5721.97	-2451.46
14680.00	90.25	183.85	7935.84	-5811.81	-2456.76
14769.00	90.48	180.42	7935.27	-5900.74	-2460.08
14859.00	90.41	179.17	7934.57	-5990.73	-2459.75
14948.00	90.30	179.41	7934.02	-6079.72	-2458.65
15038.00	89.55	179.33	7934.14	-6169.72	-2457.66
15128.00	89.72	179.67	7934.71	-6259.71	-2456.88
15217.00	89.13	180.28	7935.61	-6348.71	-2456.84
15307.00	89.50	179.21	7936.68	-6438.70	-2456.44
15396.00	89.57	179.51	7937.40	-6527.69	-2455.44
15486.00	89.32	180.62	7938.28	-6617.68	-2455.55
15576.00	89.42	178.64	7939.27	-6707.67	-2454.96
15665.00	89.52	179.53	7940.09	-6796.66	-2453.54
15755.00	90.02	182.15	7940.45	-6886.64	-2454.86
15844.00	89.64	179.85	7940.71	-6975.62	-2456.42
15934.00	90.20	180.99	7940.84	-7065.61	-2457.08
16024.00	89.82	177.72	7940.82	-7155.59	-2456.06
16113.00	89.72	181.32	7941.18	-7244.58	-2455.32
16203.00	89.72	179.36	7941.62	-7334.57	-2455.85
16293.00	90.35	180.96	7941.57	-7424.57	-2456.10
16382.00	89.84	179.43	7941.42	-7513.56	-2456.41
16472.00	90.25	178.56	7941.35	-7603.55	-2454.83
16562.00	89.97	181.01	7941.18	-7693.54	-2454.49
16651.00	89.94	178.47	7941.25	-7782.53	-2454.09
16741.00	89.23	182.69	7941.90	-7872.50	-2455.00
16831.00	90.68	180.84	7941.97	-7962.45	-2457.77
16920.00	89.25	180.30	7942.02	-8051.45	-2458.65
17010.00	90.27	180.74	7942.40	-8141.44	-2459.47
17100.00	89.19	179.37	7942.82	-8231.44	-2459.56
17189.00	89.58	179.76	7943.78	-8320.43	-2458.88
17279.00	89.11	183.14	7944.81	-8410.38	-2461.16
17369.00	91.09	181.71	7944.65	-8500.29	-2464.97
17458.00	91.54	179.04	7942.61	-8589.26	-2465.55
17548.00	90.15	177.35	7941.28	-8679.20	-2462.71
17638.00	89.67	177.25	7941.42	-8769.10	-2458.47
17727.00	89.55	179.99	7942.03	-8858.06	-2456.33
17817.00	89.06	176.78	7943.12	-8948.01	-2453.79
17907.00	89.36	179.65	7944.36	-9037.95	-2450.99
17996.00	90.59	178.54	7944.40	-9126.93	-2449.59
18086.00	89.76	177.72	7944.13	-9216.88	-2446.65
18175.00	90.18	178.05	7944.17	-9305.82	-2443.36
18265.00	90.18	178.29	7943.89	-9395.78	-2440.49
18354.00	89.56	180.73	7944.09	-9484.76	-2439.73
18444.00	90.68	179.98	7943.90	-9574.76	-2440.29
18534.00	89.53	178.80	7943.74	-9664.75	-2439.33
18572.00	89.21	178.97	7944.16	-9702.74	-2438.59
18614.00	89.21	178.97	7944.73	-9744.73	-2437.83