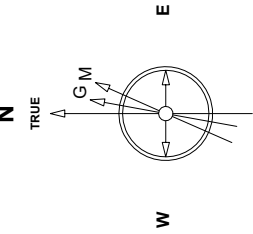


# Great Western Operating Company, LLC

Location Colorado Slot Slot W06 - Seltzer LD 09-378HN  
 Field Wattenburg Well Seltzer LD 09-378HN  
 Installation Seltzer Wellbore Seltzer LD 09-378HN (AWB)

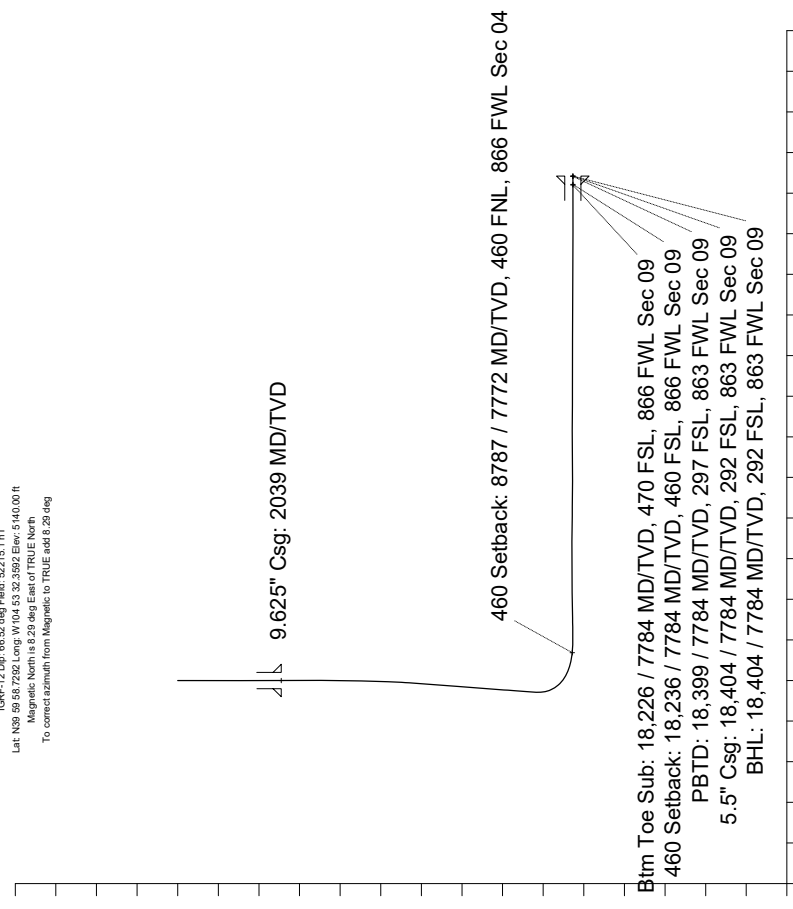
Scale 1 cm = 400 ft

East (Feet) ->



Jan-17-2017  
 IGRF-12 Dep: 68.92 deg Field: 52215.1 nT  
 Lat: N59 59 72.92 Long: W104 53 32.992 Elev: 5140.00 ft  
 Magnetic North is 8.29 deg East of TRUE North  
 To correct azimuth from Magnetic to TRUE add 8.29 deg

<- True Vertical Depth (Feet)  
 Scale 1 cm = 800 ft



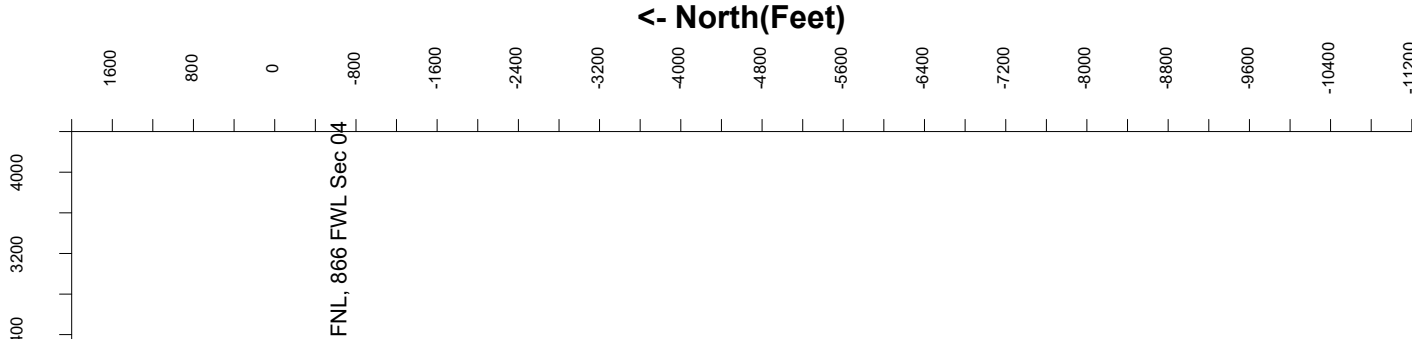
Bitm Toe Sub: 18,226 / 7784 MD/TVD, 470 FSL, 866 FWL Sec 09  
 460 Setback: 18,236 / 7784 MD/TVD, 460 FSL, 866 FWL Sec 09  
 PBTD: 18,399 / 7784 MD/TVD, 297 FSL, 863 FWL Sec 09  
 5.5" Csg: 18,404 / 7784 MD/TVD, 292 FSL, 863 FWL Sec 09  
 BHL: 18,404 / 7784 MD/TVD, 292 FSL, 863 FWL Sec 09

Vertical Section (Feet) ->  
 Scale 1 cm = 800 ft

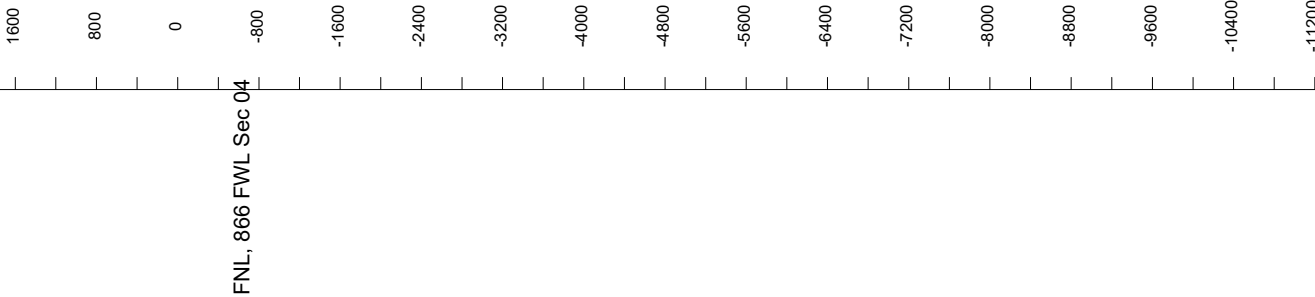
Azimuth 192.22 with reference 0.00 N, 0.00 E from Slot W06 - Seltzer LD 09-378HN

Bitm Toe Sub: 18,226 / 7784 MD/TVD, 470 FSL, 866 FWL Sec 09  
 460 Setback: 18,236 / 7784 MD/TVD, 460 FSL, 866 FWL Sec 09  
 PBTD: 18,399 / 7784 MD/TVD, 297 FSL, 863 FWL Sec 09  
 5.5" Csg: 18,404 / 7784 MD/TVD, 292 FSL, 863 FWL Sec 09  
 BHL: 18,404 / 7784 MD/TVD, 292 FSL, 863 FWL Sec 09

Created by: mmount  
 Date plotted: 9-Jul-2021  
 Plot reference is Seltzer LD 09-378HN (AWB)  
 Ref Wellpath is Seltzer LD 09-378HN (AWP#1)  
 Coordinates are in Feet reference Slot W06 - Seltzer LD 09-378HN.  
 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.



<- North(Feet)



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

Date Created	Date Revised	API #	RKB above GL	Well Name
Mar-12-2021	Jul-9-2021	05-001-10196	20.00	Seltzer LD 09-378HN

**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	0.24	65.87	99.00	0.07	0.16
187.00	0.36	2.33	187.00	0.42	0.34
276.00	0.52	15.07	276.00	1.09	0.46
369.00	0.03	100.07	368.99	1.50	0.59
458.00	0.44	89.15	457.99	1.50	0.95
548.00	0.54	353.20	547.99	1.92	1.25
638.00	0.50	234.11	637.99	2.11	0.88
728.00	0.50	249.56	727.99	1.75	0.20
818.00	0.55	218.13	817.98	1.27	-0.44
908.00	0.27	170.09	907.98	0.72	-0.67
998.00	0.55	167.42	997.98	0.09	-0.54
1088.00	0.35	221.67	1087.98	-0.54	-0.63
1178.00	0.29	244.90	1177.97	-0.84	-1.02
1268.00	0.57	270.67	1267.97	-0.93	-1.67
1358.00	0.34	245.99	1357.97	-1.03	-2.36
1448.00	0.24	95.32	1447.97	-1.16	-2.42
1538.00	0.12	51.76	1537.97	-1.12	-2.16
1627.00	0.51	1.98	1626.97	-0.66	-2.07
1717.00	0.60	22.77	1716.96	0.17	-1.87
1807.00	0.30	358.27	1806.96	0.84	-1.70
1897.00	0.44	58.51	1896.96	1.26	-1.41
1984.00	0.12	218.11	1983.96	1.36	-1.18
2137.00	0.07	205.64	2136.96	1.15	-1.32
2227.00	0.08	263.77	2226.96	1.09	-1.41
2316.00	0.06	274.76	2315.96	1.09	-1.52
2406.00	0.05	6.58	2405.96	1.13	-1.56
2496.00	0.06	256.40	2495.96	1.16	-1.60
2585.00	0.05	111.46	2584.96	1.14	-1.61
2675.00	0.05	339.55	2674.96	1.16	-1.59
2765.00	0.05	290.42	2764.96	1.21	-1.64
2854.00	0.07	326.23	2853.96	1.27	-1.70
2899.00	0.12	49.05	2898.96	1.32	-1.68
2989.00	0.04	194.02	2988.96	1.35	-1.62
3033.00	0.05	39.55	3032.96	1.35	-1.61
3123.00	0.04	321.37	3122.96	1.41	-1.61
3212.00	0.03	330.07	3211.96	1.45	-1.64
3302.00	0.07	41.20	3301.96	1.51	-1.61
3391.00	1.38	294.07	3390.95	1.99	-2.55
3481.00	4.00	295.13	3480.84	3.77	-6.39
3570.00	6.66	291.29	3569.45	6.96	-14.01
3660.00	9.59	290.23	3658.54	11.45	-25.91
3749.00	11.95	290.61	3745.96	17.26	-41.49
3840.00	14.55	290.16	3834.53	24.51	-61.04
3929.00	19.21	288.03	3919.67	32.90	-85.47
4019.00	21.79	288.60	4003.97	42.81	-115.39
4108.00	22.40	288.25	4086.43	53.39	-147.15
4198.00	24.31	288.23	4169.05	64.56	-181.03
4288.00	26.66	288.26	4250.29	76.68	-217.81
4378.00	29.39	287.53	4329.73	89.66	-258.05
4467.00	29.76	288.08	4407.13	103.10	-299.87
4557.00	29.68	287.74	4485.30	116.82	-342.33
4646.00	29.66	288.46	4562.63	130.51	-384.20
4736.00	29.72	289.43	4640.81	144.98	-426.36
4826.00	29.57	289.96	4719.03	159.98	-468.28
4915.00	29.27	290.69	4796.56	175.16	-509.27
5005.00	29.63	289.83	4874.93	190.48	-550.78
5095.00	29.79	289.52	4953.10	205.50	-592.78
5184.00	29.68	290.11	5030.38	220.46	-634.31
5274.00	29.47	289.41	5108.65	235.48	-676.12
5363.00	29.69	289.98	5186.05	250.29	-717.48
5453.00	30.02	290.04	5264.11	265.62	-759.58

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]
5542.00	30.07	289.84	5341.15	280.82	-801.47
5632.00	29.75	289.17	5419.16	295.80	-843.77
5721.00	30.15	290.02	5496.28	310.71	-885.63
5811.00	29.95	289.31	5574.18	325.87	-928.06
5901.00	30.05	289.92	5652.12	340.98	-970.45
5990.00	30.02	289.64	5729.17	356.05	-1012.37
6080.00	30.12	289.50	5807.06	371.16	-1054.86
6169.00	29.97	289.16	5884.10	385.91	-1096.91
6259.00	30.21	289.60	5961.97	400.88	-1139.47
6349.00	30.23	289.87	6039.74	416.18	-1182.11
6438.00	30.21	289.78	6116.65	431.37	-1224.25
6528.00	29.80	289.90	6194.58	446.65	-1266.59
6618.00	30.02	289.74	6272.60	461.86	-1308.81
6707.00	30.12	289.81	6349.62	476.95	-1350.77
6797.00	29.96	289.70	6427.53	492.18	-1393.17
6887.00	30.11	289.69	6505.44	507.36	-1435.59
6976.00	29.72	289.86	6582.59	522.38	-1477.36
7066.00	29.78	289.44	6660.72	537.39	-1519.41
7156.00	29.86	290.19	6738.81	552.56	-1561.52
7245.00	29.84	289.40	6816.00	567.57	-1603.20
7335.00	29.49	289.83	6894.20	582.52	-1645.16
7424.00	29.37	289.75	6971.72	597.32	-1686.30
7514.00	30.39	289.04	7049.76	612.21	-1728.60
7604.00	31.55	278.02	7126.99	622.93	-1773.47
7693.00	31.06	266.50	7203.10	624.78	-1819.48
7783.00	31.34	254.11	7280.16	616.95	-1865.22
7872.00	34.86	242.43	7354.78	598.81	-1910.08
7962.00	40.64	232.30	7425.98	568.93	-1956.16
8051.00	45.73	224.20	7490.91	528.30	-2001.37
8141.00	48.84	215.10	7552.02	477.41	-2043.37
8230.00	55.16	206.98	7606.84	417.33	-2079.28
8320.00	63.61	198.81	7652.69	346.04	-2109.13
8409.00	69.75	190.44	7687.96	267.06	-2129.59
8499.00	72.77	180.56	7716.94	182.35	-2137.68
8588.00	76.92	177.54	7740.20	96.49	-2136.24
8678.00	80.76	176.14	7757.62	8.34	-2131.37
8767.00	83.70	176.92	7769.65	-79.67	-2126.03
8857.00	86.41	178.62	7777.41	-169.25	-2122.55
8947.00	89.54	179.66	7780.59	-259.17	-2121.20
9036.00	90.09	183.09	7780.88	-348.13	-2123.33
9126.00	89.92	181.86	7780.87	-438.05	-2127.22
9215.00	89.96	180.12	7780.96	-527.03	-2128.76
9305.00	90.04	181.73	7780.96	-617.02	-2130.21
9395.00	91.36	180.97	7779.86	-706.98	-2132.33
9485.00	91.02	181.23	7777.99	-796.95	-2134.06
9574.00	90.94	181.19	7776.47	-885.91	-2135.94
9664.00	90.92	178.36	7775.01	-975.89	-2135.58
9754.00	91.00	178.31	7773.50	-1065.84	-2132.97
9843.00	90.77	177.98	7772.13	-1154.78	-2130.09
9933.00	90.67	177.20	7771.00	-1244.70	-2126.30
10022.00	90.28	176.80	7770.26	-1333.57	-2121.64
10112.00	90.69	179.41	7769.50	-1423.51	-2118.67
10202.00	90.77	181.26	7768.35	-1513.50	-2119.19
10291.00	90.50	183.17	7767.36	-1602.42	-2122.63
10381.00	90.04	177.33	7766.94	-1692.38	-2123.03
10471.00	89.89	181.83	7767.00	-1782.36	-2122.37
10560.00	89.77	183.79	7767.26	-1871.24	-2126.73
10650.00	89.83	181.71	7767.57	-1961.13	-2131.05
10740.00	90.16	181.80	7767.58	-2051.09	-2133.80
10829.00	90.16	180.64	7767.33	-2140.07	-2135.70
10919.00	90.56	182.18	7766.77	-2230.04	-2137.91
11009.00	90.27	180.41	7766.12	-2320.01	-2139.95
11099.00	90.05	181.77	7765.86	-2409.99	-2141.66
11188.00	89.99	180.25	7765.83	-2498.97	-2143.23
11278.00	88.98	180.12	7766.64	-2588.97	-2143.52
11367.00	89.10	179.16	7768.13	-2677.95	-2142.96
11457.00	88.81	174.70	7769.78	-2767.79	-2138.14
11546.00	89.10	176.71	7771.40	-2856.52	-2131.48
11636.00	89.04	181.14	7772.86	-2946.47	-2129.79
11726.00	89.17	180.93	7774.27	-3036.44	-2131.42
11815.00	88.85	178.21	7775.80	-3125.42	-2130.75
11905.00	89.06	178.40	7777.45	-3215.36	-2128.09
11994.00	90.40	183.74	7777.87	-3304.31	-2129.75
12084.00	90.11	181.36	7777.46	-3394.22	-2133.75

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]
12173.00	89.93	182.93	7777.43	-3483.15	-2137.08
12263.00	89.80	180.50	7777.65	-3573.10	-2139.78
12352.00	90.53	180.95	7777.39	-3662.09	-2140.90
12442.00	90.56	180.46	7776.53	-3752.08	-2142.01
12531.00	90.59	178.33	7775.64	-3841.07	-2141.07
12621.00	90.44	176.90	7774.83	-3930.99	-2137.32
12710.00	90.27	175.65	7774.28	-4019.79	-2131.54
12800.00	90.07	175.69	7774.01	-4109.54	-2124.75
12889.00	90.19	175.00	7773.81	-4198.24	-2117.53
12979.00	89.92	175.61	7773.72	-4287.94	-2110.16
13069.00	90.17	176.46	7773.65	-4377.72	-2103.94
13158.00	90.58	181.35	7773.07	-4466.68	-2102.23
13248.00	89.58	183.85	7772.95	-4556.58	-2106.32
13338.00	89.14	178.51	7773.95	-4646.52	-2108.17
13427.00	89.68	183.59	7774.87	-4735.47	-2109.80
13517.00	89.46	184.02	7775.54	-4825.27	-2115.77
13606.00	89.51	183.57	7776.34	-4914.07	-2121.66
13696.00	89.75	182.32	7776.92	-5003.95	-2126.29
13786.00	90.08	181.23	7777.06	-5093.90	-2129.07
13875.00	90.23	180.52	7776.82	-5182.89	-2130.43
13965.00	90.19	179.63	7776.49	-5272.89	-2130.55
14054.00	90.08	180.37	7776.28	-5361.89	-2130.55
14144.00	90.20	176.83	7776.06	-5451.85	-2128.35
14234.00	90.46	178.93	7775.54	-5541.78	-2125.02
14323.00	90.37	177.30	7774.89	-5630.73	-2122.10
14413.00	90.15	176.06	7774.49	-5720.57	-2116.88
14503.00	89.61	178.61	7774.67	-5810.47	-2112.70
14592.00	89.61	178.50	7775.28	-5899.44	-2110.46
14682.00	89.94	180.07	7775.63	-5989.43	-2109.33
14772.00	89.78	177.97	7775.85	-6079.41	-2107.79
14861.00	89.61	178.51	7776.33	-6168.36	-2105.06
14951.00	89.68	180.50	7776.89	-6258.35	-2104.28
15040.00	89.62	180.32	7777.43	-6347.35	-2104.92
15130.00	89.36	180.29	7778.23	-6437.34	-2105.40
15220.00	89.33	180.62	7779.26	-6527.34	-2106.11
15309.00	89.62	180.43	7780.07	-6616.33	-2106.93
15399.00	89.57	180.68	7780.71	-6706.32	-2107.80
15489.00	90.03	181.26	7781.03	-6796.31	-2109.32
15578.00	90.18	182.50	7780.86	-6885.26	-2112.24
15667.00	90.03	180.80	7780.70	-6974.22	-2114.81
15757.00	90.44	183.59	7780.33	-7064.14	-2118.25
15847.00	89.43	181.70	7780.43	-7154.04	-2122.41
15936.00	89.50	183.42	7781.26	-7242.94	-2126.38
16026.00	89.64	182.18	7781.94	-7332.83	-2130.78
16116.00	89.63	179.35	7782.51	-7422.81	-2131.98
16205.00	89.86	178.03	7782.91	-7511.79	-2129.94
16295.00	89.85	179.16	7783.14	-7601.76	-2127.74
16385.00	89.77	179.14	7783.43	-7691.75	-2126.40
16474.00	90.37	178.94	7783.33	-7780.74	-2124.91
16564.00	90.08	178.69	7782.97	-7870.72	-2123.05
16653.00	90.34	177.59	7782.65	-7959.67	-2120.16
16743.00	89.42	178.06	7782.83	-8049.60	-2116.75
16833.00	89.63	179.70	7783.58	-8139.58	-2114.99
16923.00	89.39	180.68	7784.35	-8229.57	-2115.29
17012.00	89.44	181.89	7785.26	-8318.54	-2117.28
17102.00	89.42	180.08	7786.15	-8408.52	-2118.83
17192.00	89.47	179.17	7787.03	-8498.51	-2118.24
17281.00	90.08	178.50	7787.38	-8587.49	-2116.43
17371.00	89.90	178.64	7787.39	-8677.47	-2114.18
17460.00	90.02	180.62	7787.45	-8766.46	-2113.61
17550.00	89.70	177.07	7787.67	-8856.43	-2111.79
17640.00	90.41	176.20	7787.59	-8946.27	-2106.51
17729.00	90.56	179.06	7786.83	-9035.18	-2102.83
17819.00	91.04	180.21	7785.58	-9125.17	-2102.26
17909.00	90.38	178.70	7784.46	-9215.16	-2101.40
17999.00	90.36	180.56	7783.88	-9305.15	-2100.82
18088.00	90.22	179.81	7783.43	-9394.15	-2101.11
18178.00	89.62	180.06	7783.56	-9484.14	-2101.01
18267.00	89.89	180.72	7783.94	-9573.14	-2101.61
18357.00	89.61	181.27	7784.33	-9663.13	-2103.18
18364.00	89.98	180.55	7784.35	-9670.13	-2103.29
18404.00	89.98	180.55	7784.37	-9710.12	-2103.67