

# Chevron Appalachia, LLC Berger 8H Gyro+MWD

<b>Report Date:</b> 11/16/2015	<b>Survey / DLS Computation Method:</b> Minimum Curvature / Lubinski
<b>Client:</b> Chevron Appalachia, LLC	<b>Vertical Section Azimuth:</b> 312.802° (TrueNorth)
<b>Field:</b> WV Marshall County	<b>Vertical Section Origin:</b> 0 ft, 0 ft
<b>Structure / Slot:</b> Chevron Appalachia, LLC Berger 8H / Chevron Appalachia, LLC Berger 8H	<b>TVD Reference Datum:</b> KB
<b>Well:</b> Berger 8H	<b>TVD Reference Elevation:</b> 1319.55 ft above MSL
<b>Borehole:</b> Original Borehole	<b>Sea Bed / Ground Level Elevation:</b> 1287.55 ft above MSL
<b>UW/API#:</b> Unknown / 47-051-01707-00	<b>Magnetic Declination:</b> -7.6864 °
<b>Survey Name / Date:</b> Chevron Appalachia, LLC Berger 8H Gyro+MWD 03-Jan-2015	<b>Total Field Strength:</b> 52764.72 nT
<b>Grid Coordinate System:</b> NAD83 West Virginia State	<b>Magnetic Dip:</b> 67.3141 °
<b>Location Lat/Long:</b> 39° 52' 28.373" N, 80° 45' 16.635" W	<b>Declination Date:</b> 12/11/2014
<b>Location Grid N/E Y/X:</b> E 1616388.270 ftUSN 503114.100 ftUS	<b>Magnetic Declination Model:</b> HDGM 2013
<b>Grid Convergence Angle:</b> 0 °	<b>North Reference:</b> TrueNorth
<b>Grid Scale Factor:</b> 0.99991045	<b>Total Corr Mag North -&gt; Grid North:</b> -7.75 °
	<b>Local Coordinates Referenced To:</b> GridNorth

MD	INCL	AZIM	TVD	VSEC	ND	ED	DLS
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.17	242.30	100.00	0.05	-0.07	-0.13	0.17
130.00	0.16	234.02	130.00	0.07	-0.11	-0.20	0.09
160.00	0.21	259.70	160.00	0.11	-0.15	-0.29	0.32
190.00	0.19	252.96	190.00	0.17	-0.17	-0.39	0.10
220.00	0.15	249.99	220.00	0.21	-0.20	-0.48	0.14
250.00	0.17	263.54	250.00	0.26	-0.22	-0.56	0.14
280.00	0.22	248.97	280.00	0.32	-0.25	-0.66	0.23
310.00	0.20	253.52	310.00	0.37	-0.28	-0.76	0.09
340.00	0.25	253.52	340.00	0.43	-0.31	-0.87	0.17
370.00	0.28	258.73	370.00	0.50	-0.35	-1.01	0.13
400.00	0.42	264.46	400.00	0.62	-0.37	-1.19	0.48
430.00	0.45	267.44	430.00	0.78	-0.39	-1.42	0.13
460.00	0.67	267.39	460.00	0.98	-0.40	-1.71	0.73
490.00	0.87	271.68	489.99	1.28	-0.40	-2.11	0.69
520.00	0.97	269.41	519.99	1.63	-0.40	-2.60	0.35
550.00	1.07	274.55	549.98	2.04	-0.38	-3.13	0.45
580.00	0.97	273.64	579.98	2.45	-0.34	-3.66	0.34
610.00	0.96	272.37	609.97	2.84	-0.31	-4.17	0.08
640.00	0.88	268.56	639.97	3.20	-0.31	-4.65	0.34
670.00	0.76	271.43	669.97	3.51	-0.31	-5.08	0.42
694.00	0.46	265.11	693.97	3.70	-0.31	-5.33	1.28
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900.00	0.93	121.26	899.95	1.21	-1.40	-2.94	0.27
995.00	0.31	210.95	994.94	0.39	-2.02	-2.41	1.03
1089.00	1.92	264.40	1088.92	1.39	-2.39	-4.11	1.86
1184.00	5.40	270.69	1183.71	5.76	-2.50	-10.16	3.68
1278.00	5.89	266.07	1277.26	12.34	-2.77	-19.39	0.71
1373.00	6.44	258.59	1371.71	18.79	-4.16	-29.47	1.02
1468.00	6.57	253.86	1466.10	24.71	-6.73	-39.91	0.58
1562.00	5.17	247.69	1559.61	29.27	-9.83	-48.99	1.63
1658.00	5.05	241.16	1655.23	32.42	-13.51	-56.69	0.62
1753.00	3.65	237.87	1749.95	34.52	-17.13	-62.92	1.50
1848.00	2.03	216.03	1844.83	35.11	-20.10	-66.47	2.02
1943.00	2.07	210.84	1939.77	34.55	-22.94	-68.34	0.20
2038.00	2.42	202.09	2034.70	33.49	-26.27	-69.97	0.51
2133.00	2.93	201.88	2129.60	31.91	-30.38	-71.63	0.54
2228.00	3.07	195.98	2224.47	29.89	-35.09	-73.24	0.36
2320.00	3.18	194.74	2316.33	27.58	-39.92	-74.56	0.14
2412.00	2.63	198.17	2408.21	25.50	-44.40	-75.87	0.63
2512.00	2.45	206.46	2508.11	23.94	-48.49	-77.54	0.41
2607.00	2.71	216.43	2603.02	23.13	-52.11	-79.77	0.55
2652.00	2.79	217.39	2647.96	22.90	-53.84	-81.07	0.20
2750.00	2.27	215.66	2745.87	22.44	-57.31	-83.65	0.54
2795.00	2.22	220.50	2790.83	22.29	-58.69	-84.74	0.43
2890.00	3.43	262.95	2885.73	24.05	-60.44	-88.76	2.46
2984.00	2.95	266.02	2979.58	27.52	-60.96	-93.96	0.54
3079.00	2.11	267.12	3074.49	30.42	-61.22	-98.15	0.89

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3174.00	1.73	269.73	3169.43	32.69	-61.31	-101.33	0.40
3268.00	1.18	260.38	3263.40	34.31	-61.48	-103.70	0.64
3363.00	0.93	282.15	3358.39	35.57	-61.48	-105.41	0.49
3458.00	0.65	308.93	3453.38	36.77	-60.98	-106.58	0.48
3552.00	0.74	300.16	3547.37	37.89	-60.34	-107.52	0.15
3647.00	1.06	294.48	3642.36	39.32	-59.67	-108.85	0.35
3742.00	0.71	299.27	3737.35	40.72	-59.02	-110.16	0.38
3837.00	0.97	303.98	3832.34	42.08	-58.29	-111.33	0.29
3932.00	0.71	303.23	3927.33	43.46	-57.51	-112.49	0.27
4027.00	0.91	306.81	4022.32	44.79	-56.74	-113.59	0.22
4122.00	0.71	304.83	4117.31	46.12	-55.95	-114.67	0.21
4217.00	0.79	295.80	4212.30	47.33	-55.33	-115.75	0.15
4312.00	0.62	307.85	4307.29	48.47	-54.73	-116.74	0.24
4407.00	0.39	294.19	4402.29	49.29	-54.28	-117.45	0.27
4501.00	0.61	289.35	4496.29	50.06	-53.98	-118.21	0.24
4596.00	0.76	285.62	4591.28	51.09	-53.64	-119.30	0.16
4692.00	1.00	299.65	4687.27	52.47	-53.05	-120.65	0.34
4785.00	1.14	302.06	4780.25	54.18	-52.16	-122.14	0.16
4890.00	0.17	250.25	4885.24	55.28	-51.66	-123.18	0.99
4985.00	5.42	252.20	4980.10	57.55	-53.08	-127.59	5.52
5080.00	11.58	244.47	5074.01	63.28	-58.56	-140.48	6.59
5175.00	16.63	246.66	5166.12	72.30	-68.07	-161.58	5.34
5269.00	22.70	238.64	5254.61	82.71	-82.85	-189.46	7.05
5315.00	25.23	241.21	5296.64	88.23	-92.20	-205.63	5.95
5364.00	27.69	244.56	5340.51	95.74	-102.12	-225.06	5.88
5459.00	33.58	244.82	5422.21	113.79	-122.80	-268.82	6.20
5554.00	37.76	246.51	5499.37	135.35	-145.58	-319.30	4.52
5649.00	40.07	245.05	5573.28	158.63	-170.08	-373.71	2.62
5744.00	39.96	244.85	5646.03	181.66	-195.94	-429.05	0.18
5838.00	39.86	247.34	5718.14	205.51	-220.37	-484.17	1.70
5933.00	40.21	247.53	5790.88	230.98	-243.82	-540.61	0.40
6028.00	40.75	246.66	5863.14	256.35	-267.83	-597.42	0.82
6123.00	41.08	248.34	5934.93	282.35	-291.63	-654.90	1.21
6218.00	41.63	251.95	6006.25	311.18	-312.93	-713.92	2.58
6312.00	43.89	265.93	6075.42	348.75	-324.94	-776.25	10.36
6407.00	43.36	277.45	6144.31	397.94	-323.05	-841.54	8.38
6502.00	46.77	282.53	6211.42	454.46	-311.31	-907.70	5.21
6597.00	52.65	284.23	6272.83	517.57	-294.50	-978.15	6.34
6692.00	62.37	283.84	6323.79	587.72	-275.11	-1055.80	10.23
6786.00	71.80	285.50	6360.35	664.00	-253.17	-1139.45	10.16
6881.00	79.84	291.61	6383.62	747.91	-223.82	-1226.63	10.51
6976.00	84.97	300.12	6396.20	837.89	-182.75	-1311.23	10.39
7071.00	87.49	310.81	6402.46	931.76	-127.82	-1388.31	11.53
7166.00	90.62	323.15	6404.03	1026.30	-58.52	-1452.98	13.40
7261.00	90.79	331.87	6402.86	1118.09	21.53	-1503.96	9.18
7356.00	91.65	335.19	6400.84	1206.91	106.54	-1546.29	3.60
7451.00	90.65	336.73	6398.93	1294.23	193.28	-1584.98	1.94
7545.00	90.86	331.21	6397.69	1381.85	277.70	-1626.21	5.88
7640.00	91.38	327.02	6395.83	1472.99	359.20	-1674.96	4.44
7735.00	90.55	327.19	6394.24	1565.03	438.95	-1726.54	0.89
7830.00	89.90	324.16	6393.86	1657.63	517.40	-1780.11	3.27
7924.00	90.62	323.20	6393.44	1749.94	593.13	-1835.78	1.27
8019.00	90.86	321.29	6392.22	1843.64	668.23	-1893.94	2.03
8114.00	89.83	321.47	6391.65	1937.57	742.45	-1953.24	1.10
8209.00	89.24	322.31	6392.42	2031.38	817.20	-2011.87	1.08
8304.00	88.07	322.33	6394.64	2125.04	892.36	-2069.91	1.23
8399.00	89.04	324.21	6397.04	2218.42	968.48	-2126.70	2.22
8494.00	89.38	323.24	6398.35	2311.69	1045.05	-2182.91	1.08
8588.00	89.17	323.58	6399.53	2404.08	1120.52	-2238.94	0.42
8683.00	91.10	323.60	6399.30	2497.40	1196.97	-2295.32	2.03
8778.00	91.00	327.06	6397.56	2590.11	1275.08	-2349.35	3.65
8873.00	91.38	324.82	6395.60	2682.59	1353.76	-2402.54	2.39
8968.00	91.48	324.68	6393.23	2775.50	1431.32	-2457.35	0.18
9062.00	91.24	322.90	6391.00	2867.75	1507.14	-2512.86	1.92
9157.00	91.24	323.59	6388.95	2961.15	1583.24	-2569.69	0.73
9252.00	91.34	323.34	6386.81	3054.49	1659.55	-2626.23	0.29
9347.00	91.24	322.49	6384.67	3147.99	1735.32	-2683.50	0.90
9441.00	91.48	322.60	6382.45	3240.61	1809.92	-2740.65	0.28
9536.00	90.83	321.01	6380.54	3334.41	1884.56	-2799.38	1.80

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9631.00	90.72	321.58	6379.25	3428.36	1958.69	-2858.77	0.61
9726.00	90.93	320.80	6377.88	3522.34	2032.70	-2918.31	0.85
9821.00	90.93	321.08	6376.35	3616.37	2106.46	-2978.16	0.30
9916.00	90.72	320.40	6374.98	3710.45	2180.01	-3038.28	0.75
10011.00	90.76	320.88	6373.75	3804.55	2253.45	-3098.53	0.51
10105.00	91.07	322.33	6372.26	3897.43	2327.11	-3156.90	1.58
10200.00	90.76	322.70	6370.75	3991.06	2402.48	-3214.71	0.51
10295.00	91.03	322.63	6369.27	4084.64	2478.01	-3272.31	0.30
10390.00	91.07	322.88	6367.53	4178.20	2553.62	-3329.80	0.26
10485.00	90.83	323.64	6365.96	4271.61	2629.74	-3386.63	0.84
10580.00	90.89	323.02	6364.53	4365.00	2705.92	-3443.35	0.65
10675.00	90.82	323.57	6363.11	4458.40	2782.08	-3500.13	0.59
10769.00	90.79	323.18	6361.78	4550.79	2857.52	-3556.19	0.42
10864.00	90.79	324.03	6360.47	4644.10	2933.98	-3612.55	0.89
10959.00	91.03	323.39	6358.96	4737.37	3010.54	-3668.77	0.72
11053.00	90.82	323.08	6357.44	4829.80	3085.84	-3725.03	0.40
11148.00	91.03	322.34	6355.90	4923.37	3161.40	-3782.58	0.81
11243.00	90.48	323.81	6354.65	5016.84	3237.34	-3839.65	1.65
11338.00	90.69	324.02	6353.68	5110.05	3314.11	-3895.60	0.31
11433.00	90.82	324.02	6352.43	5203.23	3390.98	-3951.40	0.14
11528.00	90.65	323.59	6351.20	5296.47	3467.64	-4007.49	0.49
11623.00	91.13	322.95	6349.72	5389.88	3543.77	-4064.30	0.85
11718.00	91.07	322.59	6347.89	5483.43	3619.40	-4121.77	0.38
11813.00	90.76	322.92	6346.38	5576.99	3695.02	-4179.25	0.47
11907.00	90.69	323.28	6345.20	5669.46	3770.18	-4235.69	0.39
12002.00	90.55	323.46	6344.17	5762.84	3846.42	-4292.36	0.24
12097.00	91.51	323.30	6342.46	5856.21	3922.66	-4349.01	1.03
12192.00	91.62	322.47	6339.87	5949.71	3998.39	-4406.31	0.88
12286.00	90.93	321.37	6337.78	6042.49	4072.37	-4464.26	1.38
12381.00	90.83	318.92	6336.33	6136.70	4145.28	-4525.13	2.58
12476.00	90.03	322.78	6335.62	6230.74	4218.94	-4585.09	4.15
12521.00	90.21	323.51	6335.52	6275.01	4254.94	-4612.09	1.65
12564.00	90.21	323.51	6335.37	6317.26	4289.51	-4637.66	0.01

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<b>Client:</b> Chevron Appalachia, LLC	<b>Vertical Section Azimuth:</b> 312.802° (TrueNorth)
<b>Field:</b> WV Marshall County	<b>Vertical Section Origin:</b> 0 ft, 0 ft
<b>Structure / Slot:</b> Chevron Appalachia, LLC Berger 8H / Chevron Appalachia, LLC Berger 8H	<b>TVD Reference Datum:</b> KB
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<b>UWI/API#:</b> Unknown / 47-051-01707-00	<b>Magnetic Declination:</b> -7.6864 °
<b>Survey Name / Date:</b> Chevron Appalachia, LLC Berger 8H Gyro+MWD 03-Jan-2015	<b>Total Field Strength:</b> 52764.72 nT
<b>Grid Coordinate System:</b> NAD83 West Virginia State	<b>Magnetic Dip:</b> 67.3141 °
<b>Location Lat/Long:</b> 39° 52' 28.373" N, 80° 45' 16.635" W	<b>Declination Date:</b> 12/11/2014
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<b>Grid Scale Factor:</b> 0.99991045	<b>Total Corr Mag North -&gt; Grid North:</b> -7.75 °
	<b>Local Coordinates Referenced To:</b> GridNorth

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748.00	0.66	114.93	747.97	3.44	-0.49	-5.14	1.15
808.00	0.98	106.56	807.96	2.65	-0.78	-4.34	0.57
900.00	0.93	121.26	899.95	1.21	-1.40	-2.94	0.27
995.00	0.31	210.95	994.94	0.39	-2.02	-2.41	1.03
1089.00	1.92	264.40	1088.92	1.39	-2.39	-4.11	1.86
1184.00	5.40	270.69	1183.71	5.76	-2.50	-10.16	3.68
1278.00	5.89	266.07	1277.26	12.34	-2.77	-19.39	0.71
1373.00	6.44	258.59	1371.71	18.79	-4.16	-29.47	1.02
1468.00	6.57	253.86	1466.10	24.71	-6.73	-39.91	0.58
1562.00	5.17	247.69	1559.61	29.27	-9.83	-48.99	1.63
1658.00	5.05	241.16	1655.23	32.42	-13.51	-56.69	0.62
1753.00	3.65	237.87	1749.95	34.52	-17.13	-62.92	1.50
1848.00	2.03	216.03	1844.83	35.11	-20.10	-66.47	2.02
1943.00	2.07	210.84	1939.77	34.55	-22.94	-68.34	0.20
2038.00	2.42	202.09	2034.70	33.49	-26.27	-69.97	0.51
2133.00	2.93	201.88	2129.60	31.91	-30.38	-71.63	0.54
2228.00	3.07	195.98	2224.47	29.89	-35.09	-73.24	0.36
2320.00	3.18	194.74	2316.33	27.58	-39.92	-74.56	0.14
2412.00	2.63	198.17	2408.21	25.50	-44.40	-75.87	0.63
2512.00	2.45	206.46	2508.11	23.94	-48.49	-77.54	0.41
2607.00	2.71	216.43	2603.02	23.13	-52.11	-79.77	0.55
2652.00	2.79	217.39	2647.96	22.90	-53.84	-81.07	0.20
2750.00	2.27	215.66	2745.87	22.44	-57.31	-83.65	0.54
2795.00	2.22	220.50	2790.83	22.29	-58.69	-84.74	0.43
2890.00	3.43	262.95	2885.73	24.05	-60.44	-88.76	2.46
2984.00	2.95	266.02	2979.58	27.52	-60.96	-93.96	0.54
3079.00	2.11	267.12	3074.49	30.42	-61.22	-98.15	0.89

3174.00	1.73	269.73	3169.43	32.69	-61.31	-101.33	0.40
3268.00	1.18	260.38	3263.40	34.31	-61.48	-103.70	0.64
3363.00	0.93	282.15	3358.39	35.57	-61.48	-105.41	0.49
3458.00	0.65	308.93	3453.38	36.77	-60.98	-106.58	0.48
3552.00	0.74	300.16	3547.37	37.89	-60.34	-107.52	0.15
3647.00	1.06	294.48	3642.36	39.32	-59.67	-108.85	0.35
3742.00	0.71	299.27	3737.35	40.72	-59.02	-110.16	0.38
3837.00	0.97	303.98	3832.34	42.08	-58.29	-111.33	0.29
3932.00	0.71	303.23	3927.33	43.46	-57.51	-112.49	0.27
4027.00	0.91	306.81	4022.32	44.79	-56.74	-113.59	0.22
4122.00	0.71	304.83	4117.31	46.12	-55.95	-114.67	0.21
4217.00	0.79	295.80	4212.30	47.33	-55.33	-115.75	0.15
4312.00	0.62	307.85	4307.29	48.47	-54.73	-116.74	0.24
4407.00	0.39	294.19	4402.29	49.29	-54.28	-117.45	0.27
4501.00	0.61	289.35	4496.29	50.06	-53.98	-118.21	0.24
4596.00	0.76	285.62	4591.28	51.09	-53.64	-119.30	0.16
4692.00	1.00	299.65	4687.27	52.47	-53.05	-120.65	0.34
4785.00	1.14	302.06	4780.25	54.18	-52.16	-122.14	0.16
4890.00	0.17	250.25	4885.24	55.28	-51.66	-123.18	0.99
4985.00	5.42	252.20	4980.10	57.55	-53.08	-127.59	5.52
5080.00	11.58	244.47	5074.01	63.28	-58.56	-140.48	6.59
5175.00	16.63	246.66	5166.12	72.30	-68.07	-161.58	5.34
5269.00	22.70	238.64	5254.61	82.71	-82.85	-189.46	7.05
5315.00	25.23	241.21	5296.64	88.23	-92.20	-205.63	5.95
5364.00	27.69	244.56	5340.51	95.74	-102.12	-225.06	5.88
5459.00	33.58	244.82	5422.21	113.79	-122.80	-268.82	6.20
5554.00	37.76	246.51	5499.37	135.35	-145.58	-319.30	4.52
5649.00	40.07	245.05	5573.28	158.63	-170.08	-373.71	2.62
5744.00	39.96	244.85	5646.03	181.66	-195.94	-429.05	0.18
5838.00	39.86	247.34	5718.14	205.51	-220.37	-484.17	1.70
5933.00	40.21	247.53	5790.88	230.98	-243.82	-540.61	0.40
6028.00	40.75	246.66	5863.14	256.35	-267.83	-597.42	0.82
6123.00	41.08	248.34	5934.93	282.35	-291.63	-654.90	1.21
6218.00	41.63	251.95	6006.25	311.18	-312.93	-713.92	2.58
6312.00	43.89	265.93	6075.42	348.75	-324.94	-776.25	10.36
6407.00	43.36	277.45	6144.31	397.94	-323.05	-841.54	8.38
6502.00	46.77	282.53	6211.42	454.46	-311.31	-907.70	5.21
6597.00	52.65	284.23	6272.83	517.57	-294.50	-978.15	6.34
6692.00	62.37	283.84	6323.79	587.72	-275.11	-1055.80	10.23
6786.00	71.80	285.50	6360.35	664.00	-253.17	-1139.45	10.16
6881.00	79.84	291.61	6383.62	747.91	-223.82	-1226.63	10.51
6976.00	84.97	300.12	6396.20	837.89	-182.75	-1311.23	10.39
7071.00	87.49	310.81	6402.46	931.76	-127.82	-1388.31	11.53
7166.00	90.62	323.15	6404.03	1026.30	-58.52	-1452.98	13.40
7261.00	90.79	331.87	6402.86	1118.09	21.53	-1503.96	9.18
7356.00	91.65	335.19	6400.84	1206.91	106.54	-1546.29	3.60
7451.00	90.65	336.73	6398.93	1294.23	193.28	-1584.98	1.94
7545.00	90.86	331.21	6397.69	1381.85	277.70	-1626.21	5.88
7640.00	91.38	327.02	6395.83	1472.99	359.20	-1674.96	4.44
7735.00	90.55	327.19	6394.24	1565.03	438.95	-1726.54	0.89
7830.00	89.90	324.16	6393.86	1657.63	517.40	-1780.11	3.27
7924.00	90.62	323.20	6393.44	1749.94	593.13	-1835.78	1.27
8019.00	90.86	321.29	6392.22	1843.64	668.23	-1893.94	2.03
8114.00	89.83	321.47	6391.65	1937.57	742.45	-1953.24	1.10
8209.00	89.24	322.31	6392.42	2031.38	817.20	-2011.87	1.08
8304.00	88.07	322.33	6394.64	2125.04	892.36	-2069.91	1.23
8399.00	89.04	324.21	6397.04	2218.42	968.48	-2126.70	2.22
8494.00	89.38	323.24	6398.35	2311.69	1045.05	-2182.91	1.08
8588.00	89.17	323.58	6399.53	2404.08	1120.52	-2238.94	0.42
8683.00	91.10	323.60	6399.30	2497.40	1196.97	-2295.32	2.03
8778.00	91.00	327.06	6397.56	2590.11	1275.08	-2349.35	3.65
8873.00	91.38	324.82	6395.60	2682.59	1353.76	-2402.54	2.39
8968.00	91.48	324.68	6393.23	2775.50	1431.32	-2457.35	0.18
9062.00	91.24	322.90	6391.00	2867.75	1507.14	-2512.86	1.92
9157.00	91.24	323.59	6388.95	2961.15	1583.24	-2569.69	0.73
9252.00	91.34	323.34	6386.81	3054.49	1659.55	-2626.23	0.29
9347.00	91.24	322.49	6384.67	3147.99	1735.32	-2683.50	0.90
9441.00	91.48	322.60	6382.45	3240.61	1809.92	-2740.65	0.28
9536.00	90.83	321.01	6380.54	3334.41	1884.56	-2799.38	1.80

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9631.00	90.72	321.58	6379.25	3428.36	1958.69	-2858.77	0.61
9726.00	90.93	320.80	6377.88	3522.34	2032.70	-2918.31	0.85
9821.00	90.93	321.08	6376.35	3616.37	2106.46	-2978.16	0.30
9916.00	90.72	320.40	6374.98	3710.45	2180.01	-3038.28	0.75
10011.00	90.76	320.88	6373.75	3804.55	2253.45	-3098.53	0.51
10105.00	91.07	322.33	6372.26	3897.43	2327.11	-3156.90	1.58
10200.00	90.76	322.70	6370.75	3991.06	2402.48	-3214.71	0.51
10295.00	91.03	322.63	6369.27	4084.64	2478.01	-3272.31	0.30
10390.00	91.07	322.88	6367.53	4178.20	2553.62	-3329.80	0.26
10485.00	90.83	323.64	6365.96	4271.61	2629.74	-3386.63	0.84
10580.00	90.89	323.02	6364.53	4365.00	2705.92	-3443.35	0.65
10675.00	90.82	323.57	6363.11	4458.40	2782.08	-3500.13	0.59
10769.00	90.79	323.18	6361.78	4550.79	2857.52	-3556.19	0.42
10864.00	90.79	324.03	6360.47	4644.10	2933.98	-3612.55	0.89
10959.00	91.03	323.39	6358.96	4737.37	3010.54	-3668.77	0.72
11053.00	90.82	323.08	6357.44	4829.80	3085.84	-3725.03	0.40
11148.00	91.03	322.34	6355.90	4923.37	3161.40	-3782.58	0.81
11243.00	90.48	323.81	6354.65	5016.84	3237.34	-3839.65	1.65
11338.00	90.69	324.02	6353.68	5110.05	3314.11	-3895.60	0.31
11433.00	90.82	324.02	6352.43	5203.23	3390.98	-3951.40	0.14
11528.00	90.65	323.59	6351.20	5296.47	3467.64	-4007.49	0.49
11623.00	91.13	322.95	6349.72	5389.88	3543.77	-4064.30	0.85
11718.00	91.07	322.59	6347.89	5483.43	3619.40	-4121.77	0.38
11813.00	90.76	322.92	6346.38	5576.99	3695.02	-4179.25	0.47
11907.00	90.69	323.28	6345.20	5669.46	3770.18	-4235.69	0.39
12002.00	90.55	323.46	6344.17	5762.84	3846.42	-4292.36	0.24
12097.00	91.51	323.30	6342.46	5856.21	3922.66	-4349.01	1.03
12192.00	91.62	322.47	6339.87	5949.71	3998.39	-4406.31	0.88
12286.00	90.93	321.37	6337.78	6042.49	4072.37	-4464.26	1.38
12381.00	90.83	318.92	6336.33	6136.70	4145.28	-4525.13	2.58
12476.00	90.03	322.78	6335.62	6230.74	4218.94	-4585.09	4.15
12521.00	90.21	323.51	6335.52	6275.01	4254.94	-4612.09	1.65
12564.00	90.21	323.51	6335.37	6317.26	4289.51	-4637.66	0.01

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