

Minimum Radius of Curvature

API: 42-389-41118 **Well: Meade 401AH ST01** **Wellhead Location** **Lat: 31.662924**
Operator: Apache **Area: Delaware** **Long: -103.858827**
Rig: TD: 9,794' **Type: U Lateral** **Magnetic Declination: 8.21**
Plane of Proposal: 1.47

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
0.00	0.00	0.00		0.0	0.00	0.00	0.00	0.00	0.00			
223	0.58	174.89	223	223.0	-1.12	-1.12	0.10	1.13	174.89	0.26	0.26	78.43
406	0.90	189.82	183	406.0	-3.46	-3.46	-0.06	3.46	181.03	0.20	0.17	8.16
498	1.15	192.08	92	498.0	-5.09	-5.08	-0.38	5.09	184.26	0.28	0.27	2.46
589	1.32	193.56	91	588.9	-7.01	-6.99	-0.82	7.04	186.65	0.19	0.19	1.63
681	0.65	183.51	92	680.9	-8.57	-8.54	-1.10	8.61	187.31	0.75	-0.73	-10.92
772	0.61	17.04	91	771.9	-8.62	-8.59	-0.99	8.65	186.54	1.37	-0.04	-182.93
864	0.78	29.85	92	863.9	-7.59	-7.58	-0.53	7.60	184.00	0.25	0.18	13.92
962	0.56	43.36	98	961.9	-6.65	-6.65	0.13	6.66	178.88	0.27	-0.22	13.79
1056	0.38	28.49	94	1055.9	-6.03	-6.05	0.59	6.08	174.38	0.23	-0.19	-15.82
1150	0.43	358.73	94	1149.9	-5.40	-5.42	0.74	5.47	172.27	0.23	0.05	351.32
1245	0.74	343.90	95	1244.9	-4.46	-4.47	0.56	4.51	172.90	0.36	0.33	-15.61
1339	0.57	352.41	94	1338.9	-3.42	-3.43	0.33	3.44	174.54	0.21	-0.18	9.05
1433	0.64	0.03	94	1432.9	-2.43	-2.44	0.27	2.45	173.78	0.11	0.07	-374.87
1527	1.15	19.82	94	1526.9	-1.01	-1.03	0.59	1.18	150.28	0.63	0.54	21.05
1621	1.98	18.49	94	1620.8	1.44	1.40	1.42	2.00	45.41	0.88	0.88	-1.41
1716	1.80	22.21	95	1715.8	4.40	4.34	2.51	5.01	30.00	0.23	-0.19	3.92
1810	1.72	22.48	94	1809.8	7.10	7.01	3.60	7.88	27.20	0.09	-0.09	0.29
1874	1.67	23.26	64	1873.7	8.86	8.75	4.34	9.77	26.36	0.09	-0.08	1.22
2000	1.33	30.77	126	1999.7	11.84	11.70	5.81	13.06	26.42	0.31	-0.27	5.96
2094	2.46	34.22	94	2093.6	14.49	14.30	7.50	16.15	27.69	1.21	1.20	3.67
2189	4.05	23.61	95	2188.5	19.31	19.06	9.99	21.52	27.67	1.78	1.67	-11.17
2283	5.99	18.04	94	2282.1	27.09	26.77	12.84	29.69	25.63	2.13	2.06	-5.93
2378	7.55	24.12	95	2376.4	37.60	37.18	16.93	40.85	24.48	1.80	1.64	6.40
2472	9.01	25.66	94	2469.5	50.01	49.45	22.64	54.39	24.60	1.57	1.55	1.64
2566	10.38	19.75	94	2562.1	64.77	64.06	28.69	70.19	24.13	1.80	1.46	-6.29
2660	11.63	15.06	94	2654.4	82.02	81.18	34.01	88.01	22.73	1.63	1.33	-4.99
2754	11.33	11.13	94	2746.5	100.33	99.39	38.26	106.49	21.05	0.89	-0.32	-4.18
2848	10.55	9.06	94	2838.8	117.97	116.94	41.40	124.05	19.49	0.93	-0.83	-2.20
2943	10.06	6.90	95	2932.3	134.85	133.77	43.76	140.75	18.11	0.66	-0.52	-2.27
3037	9.97	14.94	94	3024.8	150.94	149.78	46.85	156.94	17.37	1.49	-0.10	8.55
3131	10.20	21.97	94	3117.4	166.65	165.36	52.06	173.36	17.47	1.33	0.24	7.48
3225	9.57	25.08	94	3210.0	181.60	180.16	58.48	189.42	17.98	0.88	-0.67	3.31
3320	9.39	29.37	95	3303.7	195.69	194.07	65.63	204.86	18.69	0.77	-0.19	4.52
3415	8.50	29.43	95	3397.5	208.74	206.94	72.88	219.40	19.40	0.94	-0.94	0.06
3509	7.76	29.11	94	3490.6	220.50	218.53	79.38	232.50	19.96	0.79	-0.79	-0.34
3603	6.93	28.66	94	3583.8	231.16	229.05	85.19	244.38	20.40	0.89	-0.88	-0.48
3697	6.65	27.96	94	3677.2	241.08	238.84	90.46	255.39	20.74	0.31	-0.30	-0.74
3791	6.39	27.66	94	3770.6	250.64	248.28	95.44	265.99	21.03	0.28	-0.28	-0.32
3886	6.06	29.57	95	3865.0	259.81	257.32	100.37	276.20	21.31	0.41	-0.35	2.01
3980	5.02	33.04	94	3958.6	267.69	265.08	105.06	285.14	21.62	1.16	-1.11	3.69
4073	4.54	36.34	93	4051.2	274.18	271.46	109.46	292.70	21.96	0.59	-0.52	3.55
4168	3.92	34.38	95	4146.0	279.99	277.17	113.52	299.52	22.27	0.67	-0.65	-2.06
4262	3.90	32.23	94	4239.8	285.43	282.52	117.04	305.81	22.50	0.16	-0.02	-2.29
4357	2.25	34.42	95	4334.6	289.77	286.80	119.82	310.82	22.67	1.74	-1.74	2.31
4451	1.45	36.66	94	4428.6	292.30	289.27	121.57	313.78	22.80	0.85	-0.85	2.38
4546	1.37	36.78	95	4523.5	294.20	291.15	122.97	316.05	22.90	0.08	-0.08	0.13
4640	1.26	43.35	94	4617.5	295.89	292.80	124.35	318.11	23.01	0.20	-0.12	6.99
4735	1.26	37.77	95	4712.5	297.51	294.38	125.71	320.10	23.12	0.13	0.00	-5.87
4830	1.08	36.74	95	4807.5	299.08	295.93	126.89	321.98	23.21	0.19	-0.19	-1.08
4924	1.09	31.87	94	4901.5	300.58	297.39	127.89	323.73	23.27	0.10	0.01	-5.18
5019	1.17	31.01	95	4996.4	302.20	298.99	128.86	325.58	23.32	0.09	0.08	-0.91
5113	1.12	19.73	94	5090.4	303.91	300.68	129.67	327.45	23.33	0.25	-0.05	-12.00
5208	0.93	35.44	95	5185.4	305.43	302.18	130.43	329.13	23.35	0.36	-0.20	16.54
5302	0.68	34.42	94	5279.4	306.53	303.26	131.19	330.42	23.39	0.27	-0.27	-1.09
5396	0.60	42.19	94	5373.4	307.37	304.09	131.83	331.44	23.44	0.13	-0.09	8.27
5491	0.48	8.55	95	5468.4	308.14	304.85	132.23	332.29	23.45	0.35	-0.13	-35.41
5585	0.67	8.59	94	5562.4	309.08	305.78	132.37	333.20	23.41	0.20	0.20	0.04

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5680	0.33	9.96	95	5657.4	309.90	306.60	132.50	334.01	23.37	0.36	-0.36	1.44
5775	0.54	38.49	95	5752.4	310.53	307.22	132.82	334.70	23.38	0.31	0.22	30.03
5869	0.42	36.60	94	5846.4	311.16	307.85	133.30	335.47	23.41	0.13	-0.13	-2.01
5963	0.50	35.83	94	5940.4	311.78	308.45	133.75	336.20	23.44	0.09	0.09	-0.82
6058	0.32	340.88	95	6035.4	312.37	309.04	133.91	336.80	23.43	0.43	-0.19	321.11
6152	0.24	301.58	94	6129.4	312.72	309.39	133.65	337.03	23.36	0.22	-0.09	-41.81
6247	0.13	348.45	95	6224.4	312.92	309.60	133.46	337.14	23.32	0.19	-0.12	49.34
6341	0.25	338.85	94	6318.4	313.22	309.90	133.37	337.38	23.28	0.13	0.13	-10.21
6435	0.24	280.01	94	6412.4	313.44	310.12	133.10	337.48	23.23	0.26	-0.01	-62.60
6530	0.16	284.80	95	6507.4	313.50	310.19	132.77	337.41	23.17	0.09	-0.08	5.04
6624	0.26	204.68	94	6601.4	313.33	310.03	132.56	337.18	23.15	0.30	0.11	-85.23
6813	0.71	234.61	189	6790.4	312.23	308.96	131.42	335.75	23.04	0.27	0.24	15.84
7002	0.75	248.16	189	6979.3	311.04	307.83	129.32	333.89	22.79	0.09	0.02	7.17
7096	0.77	255.56	94	7073.3	310.63	307.44	128.14	333.07	22.63	0.11	0.02	7.87
7191	0.62	289.44	95	7168.3	310.61	307.45	127.04	332.66	22.45	0.45	-0.16	35.66
7285	1.00	282.95	94	7262.3	310.93	307.80	125.76	332.50	22.22	0.42	0.40	-6.90
7380	1.73	267.13	95	7357.3	310.99	307.92	123.52	331.77	21.86	0.86	0.77	-16.65
7474	1.53	253.89	94	7451.2	310.50	307.50	120.89	330.41	21.46	0.45	-0.21	-14.09
7568	1.84	256.42	94	7545.2	309.73	306.80	118.22	328.79	21.07	0.34	0.33	2.69
7662	1.41	262.04	94	7639.2	309.15	306.28	115.61	327.37	20.68	0.49	-0.46	5.98
7811	1.01	311.96	149	7788.1	309.70	306.91	112.82	326.98	20.18	0.73	-0.27	33.50
7842	1.55	325.94	31	7819.1	310.22	307.44	112.38	327.33	20.08	2.00	1.74	45.10
7906	3.13	33.71	64	7883.1	312.40	309.61	112.86	329.54	20.03	4.56	2.47	-456.61
7937	4.86	61.79	31	7914.0	313.77	310.93	114.49	331.34	20.21	8.27	5.58	90.58
8000	8.80	72.53	63	7976.6	316.65	313.64	121.44	336.33	21.17	6.55	6.25	17.05
8095	5.46	67.22	95	8070.8	320.87	317.57	132.54	344.12	22.65	3.58	-3.52	-5.59
8189	2.85	36.94	94	8164.6	324.61	321.17	138.07	349.60	23.26	3.54	-2.78	-32.21
8283	2.27	18.52	94	8258.5	328.29	324.81	140.07	353.72	23.33	1.06	-0.62	-19.60
8377	1.05	359.55	94	8352.4	330.93	327.43	140.65	356.37	23.25	1.41	-1.30	362.80
8471	0.83	330.78	94	8446.4	332.38	328.89	140.31	357.57	23.10	0.55	-0.23	-30.61
8566	0.94	301.13	95	8541.4	333.36	329.89	139.31	358.10	22.89	0.49	0.12	-31.21
8660	1.83	282.61	94	8635.4	334.03	330.62	137.19	357.95	22.54	1.05	0.95	-19.70
8754	1.57	296.88	94	8729.3	334.87	331.53	134.57	357.80	22.09	0.53	-0.28	15.18
8848	2.17	306.26	94	8823.3	336.44	333.16	131.99	358.36	21.61	0.71	0.64	9.98
8943	2.11	296.68	95	8918.2	338.21	335.01	128.98	358.98	21.06	0.38	-0.06	-10.08
9037	1.97	285.41	94	9012.2	339.34	336.22	125.87	359.01	20.52	0.45	-0.15	-11.99
9132	2.75	277.84	95	9107.1	339.98	336.96	122.04	358.38	19.91	0.88	0.82	-7.97
9226	2.16	282.71	94	9201.0	340.58	337.66	118.08	357.71	19.27	0.67	-0.63	5.18
9321	2.06	284.82	95	9295.9	341.32	338.49	114.68	357.39	18.72	0.13	-0.11	2.22
9416	1.80	296.47	95	9390.9	342.35	339.59	111.70	357.49	18.21	0.49	-0.27	12.26
9511	1.47	287.74	95	9485.8	343.32	340.63	109.20	357.71	17.77	0.43	-0.35	-9.19
9606	1.31	308.11	95	9580.8	344.31	341.67	107.18	358.09	17.42	0.54	-0.17	21.44
9700	1.56	298.94	94	9674.8	345.54	342.95	105.22	358.73	17.06	0.36	0.27	-9.76
9794	1.54	298.07	94	9768.7	346.70	344.17	102.99	359.25	16.66	0.03	-0.02	-0.93
9857	2.11	313.15	63	9831.7	347.85	345.36	101.39	359.93	16.36	1.18	0.90	23.94
9888	2.63	330.58	31	9862.7	348.84	346.37	100.63	360.69	16.20	2.85	1.68	56.23
9982	11.07	1.30	94	9956.0	359.73	357.29	99.77	370.96	15.60	9.48	8.98	-350.30
10077	21.62	8.33	95	10047.0	386.31	383.80	102.52	397.26	14.96	11.28	11.11	7.40
10171	28.84	11.50	94	10132.0	425.88	423.21	109.56	437.16	14.51	7.81	7.68	3.37
10193	30.99	11.43	22	10151.0	436.68	433.96	111.74	448.11	14.44	9.77	9.77	-0.32
10272	35.15	11.90	79	10217.2	479.10	476.17	120.46	491.17	14.20	5.28	5.27	0.59
10300	35.11	12.28	28	10240.1	494.94	491.92	123.84	507.27	14.13	0.79	-0.14	1.36
10340	35.22	13.06	40	10272.8	517.53	514.40	128.89	530.30	14.07	1.16	0.27	1.95
10434	41.69	13.69	94	10346.4	574.70	571.23	142.43	588.72	14.00	6.90	6.88	0.67
10525	49.78	10.28	91	10409.9	638.72	634.94	155.81	653.77	13.79	9.28	8.89	-3.75
10619	62.98	0.32	94	10461.9	716.53	712.59	162.49	730.89	12.85	16.56	14.04	-10.60
10713	79.44	358.57	94	10492.1	805.15	801.27	161.57	817.40	11.40	17.60	17.51	381.12
10808	90.11	355.59	95	10500.7	899.33	895.60	156.74	909.22	9.93	11.66	11.23	-3.14

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10902	90.70	352.96	94	10500.0	992.58	989.12	147.36	1000.04	8.47	2.87	0.63	-2.80
10995	90.45	357.56	93	10499.1	1085.00	1081.78	139.68	1090.76	7.36	4.95	-0.27	4.95
11090	91.85	0.93	95	10497.2	1179.90	1176.73	138.43	1184.85	6.71	3.84	1.47	-375.40
11177	90.13	1.40	87	10495.7	1266.88	1263.70	140.19	1271.45	6.33	2.05	-1.98	0.54
11272	91.51	357.62	95	10494.3	1361.79	1358.67	139.38	1365.80	5.86	4.24	1.45	374.97
11366	88.44	357.74	94	10494.4	1455.58	1452.58	135.58	1458.89	5.33	3.27	-3.27	0.13
11461	92.90	356.60	95	10493.3	1550.28	1547.43	130.89	1552.96	4.83	4.85	4.69	-1.20
11555	91.21	358.03	94	10489.9	1643.97	1641.26	126.49	1646.13	4.41	2.35	-1.80	1.52
11649	92.55	4.69	94	10486.8	1737.86	1735.13	128.72	1739.90	4.24	7.22	1.43	-375.89
11744	89.94	2.92	95	10484.8	1832.75	1829.88	135.02	1834.86	4.22	3.32	-2.75	-1.86
11838	91.75	358.65	94	10483.4	1926.70	1923.84	136.31	1928.66	4.05	4.93	1.93	378.44
11933	90.88	6.42	95	10481.2	2021.59	2018.65	140.50	2023.53	3.98	8.23	-0.92	-370.77
12027	90.80	1.94	94	10479.8	2115.45	2112.36	147.35	2117.50	3.99	4.77	-0.09	-4.77
12122	88.33	3.15	95	10480.5	2210.42	2207.26	151.57	2212.46	3.93	2.90	-2.60	1.27
12216	90.38	3.28	94	10481.6	2304.37	2301.10	156.84	2306.44	3.90	2.19	2.18	0.14
12311	89.38	4.32	95	10481.8	2399.28	2395.89	163.14	2401.44	3.90	1.52	-1.05	1.09
12406	89.78	359.68	95	10482.5	2494.25	2490.80	166.45	2496.36	3.82	4.90	0.42	374.06
12500	88.70	356.01	94	10483.7	2588.04	2584.71	162.92	2589.84	3.61	4.07	-1.15	-3.90
12595	91.41	1.76	95	10483.6	2682.89	2679.64	161.07	2684.48	3.44	6.69	2.85	-372.89
12689	90.84	359.31	94	10481.8	2776.85	2773.61	161.95	2778.34	3.34	2.68	-0.61	380.37
12783	87.80	357.33	94	10482.9	2870.69	2867.55	159.19	2871.97	3.18	3.86	-3.23	-2.11
12877	88.72	355.78	94	10485.8	2964.30	2961.33	153.55	2965.31	2.97	1.92	0.98	-1.65
12972	90.75	356.86	95	10486.2	3058.91	3056.13	147.45	3059.69	2.76	2.42	2.14	1.14
13067	93.48	7.09	95	10482.7	3153.70	3150.87	150.71	3154.48	2.74	11.14	2.87	-368.18
13162	90.48	8.15	95	10479.4	3248.09	3244.97	163.30	3249.07	2.88	3.35	-3.16	1.12
13256	89.57	0.92	94	10479.4	3341.89	3338.61	170.73	3342.97	2.93	7.75	-0.97	-7.69
13351	91.50	3.95	95	10478.5	3436.86	3433.50	174.76	3437.95	2.91	3.78	2.03	3.19
13445	88.67	2.81	94	10478.3	3530.79	3527.33	180.30	3531.93	2.93	3.25	-3.01	-1.21
13539	89.88	0.85	94	10479.5	3624.78	3621.27	183.30	3625.90	2.90	2.45	1.29	-2.09
13634	90.18	3.84	95	10479.5	3719.76	3716.18	187.19	3720.89	2.88	3.16	0.32	3.15
13728	89.52	0.99	94	10479.7	3813.73	3810.08	191.15	3814.87	2.87	3.11	-0.70	-3.03
13822	91.16	1.13	94	10479.2	3907.73	3904.06	192.89	3908.82	2.83	1.75	1.74	0.15
13916	89.65	3.11	94	10478.5	4001.71	3997.99	196.37	4002.81	2.81	2.65	-1.61	2.11
14011	86.60	359.52	95	10481.6	4096.63	4092.89	198.55	4097.70	2.78	4.96	-3.21	375.17
14105	89.28	359.29	94	10485.0	4190.50	4186.81	197.57	4191.47	2.70	2.86	2.85	-0.24
14200	89.00	1.43	95	10486.4	4285.47	4281.79	198.17	4286.38	2.65	2.27	-0.29	-376.69
14294	88.96	1.51	94	10488.1	4379.45	4375.75	200.58	4380.34	2.62	0.10	-0.04	0.09
14389	89.42	1.70	95	10489.4	4474.44	4470.70	203.24	4475.32	2.60	0.52	0.48	0.20
14484	88.18	1.11	95	10491.4	4569.42	4565.65	205.57	4570.27	2.58	1.45	-1.31	-0.62
14578	90.77	359.55	94	10492.3	4663.39	4659.63	206.11	4664.19	2.53	3.22	2.76	381.32
14672	89.52	0.72	94	10492.0	4757.36	4753.63	206.33	4758.10	2.49	1.82	-1.33	-381.73
14767	91.24	0.33	95	10491.4	4852.34	4848.62	207.20	4853.04	2.45	1.86	1.81	-0.41
14861	89.52	2.07	94	10490.8	4946.33	4942.59	209.17	4947.01	2.42	2.60	-1.83	1.85
14955	89.89	359.34	94	10491.3	5040.31	5036.57	210.33	5040.96	2.39	2.93	0.39	380.07
15050	90.15	1.61	95	10491.2	5135.29	5131.56	211.12	5135.90	2.36	2.41	0.27	-376.56
15144	90.44	0.83	94	10490.8	5229.28	5225.54	213.12	5229.88	2.34	0.89	0.31	-0.83
15239	89.38	359.56	95	10490.9	5324.26	5320.53	213.44	5324.81	2.30	1.74	-1.12	377.61
15333	86.71	349.63	94	10494.1	5417.40	5413.94	204.61	5417.80	2.16	10.93	-2.84	-10.56
15428	86.45	338.63	95	10499.8	5507.78	5505.01	178.72	5507.91	1.86	11.56	-0.27	-11.58
15522	89.59	329.19	94	10503.1	5590.96	5589.27	137.45	5590.96	1.41	10.58	3.34	-10.04
15617	91.93	320.08	95	10501.8	5666.90	5666.65	82.53	5667.25	0.83	9.90	2.46	-9.59
15712	90.84	314.39	95	10499.5	5734.92	5736.34	18.07	5736.37	0.18	6.10	-1.15	-5.99
15806	91.63	305.36	94	10497.5	5793.24	5796.53	-53.97	5796.78	359.47	9.64	0.84	-9.61
15900	90.52	298.17	94	10495.7	5840.62	5845.98	-133.83	5847.51	358.69	7.74	-1.18	-7.65
15995	93.57	289.54	95	10492.3	5876.74	5884.34	-220.56	5888.47	357.85	9.63	3.21	-9.08
16089	90.51	282.05	94	10489.0	5899.96	5909.88	-310.88	5918.05	356.99	8.60	-3.26	-7.97
16184	89.19	269.78	95	10489.2	5907.31	5919.65	-405.19	5933.50	356.08	12.99	-1.39	-12.92
16278	92.03	261.97	94	10488.2	5898.15	5912.90	-498.86	5933.90	355.18	8.84	3.02	-8.31

Minimum Radius of Curvature

API: 42-389-41118 **Well: Meade 401AH ST01** **Wellhead Location** **Lat: 31.662924**
Operator: Apache **Area: Delaware** **Long: -103.858827**
Rig: **Type: U Lateral** **Magnetic Declination: 8.21**
TD: 9,794' **Plane of Proposal: 1.47**

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
16372	91.03	258.59	94	10485.7	5879.92	5897.03	-591.46	5926.62	354.27	3.75	-1.06	-3.60
16467	90.57	254.98	95	10484.4	5855.84	5875.32	-683.92	5915.00	353.36	3.83	-0.48	-3.80
16561	91.49	249.41	94	10482.7	5824.83	5846.60	-773.37	5897.52	352.46	6.00	0.98	-5.93
16655	91.24	242.57	94	10480.4	5784.43	5808.38	-859.16	5871.58	351.59	7.28	-0.27	-7.28
16749	90.66	234.28	94	10478.9	5733.22	5759.21	-939.16	5835.28	350.74	8.84	-0.62	-8.82
16844	90.69	222.77	95	10477.7	5668.61	5696.40	-1010.22	5785.29	349.94	12.11	0.03	-12.12
16938	91.66	209.91	94	10475.8	5591.67	5620.86	-1065.79	5721.01	349.26	13.72	1.03	-13.68
17033	95.92	198.42	95	10469.5	5504.40	5534.55	-1104.54	5643.69	348.71	12.87	4.48	-12.09
17127	94.10	186.79	94	10461.3	5412.68	5443.33	-1124.93	5558.35	348.32	12.48	-1.94	-12.37
17221	92.09	178.41	94	10456.2	5318.92	5349.65	-1129.18	5467.52	348.08	9.15	-2.14	-8.91
17316	92.48	180.87	95	10452.4	5224.05	5254.74	-1128.58	5374.56	347.88	2.62	0.41	2.59
17410	88.57	178.84	94	10451.5	5130.12	5160.76	-1128.34	5282.67	347.67	4.69	-4.16	-2.16
17504	91.46	177.40	94	10451.5	5036.29	5066.83	-1125.26	5190.27	347.48	3.43	3.07	-1.53
17599	91.36	178.55	95	10449.2	4941.50	4971.92	-1121.90	5096.92	347.28	1.21	-0.11	1.21
17693	89.87	178.84	94	10448.2	4847.62	4877.95	-1119.76	5004.82	347.07	1.61	-1.59	0.31
17788	88.35	179.28	95	10449.6	4752.72	4782.98	-1118.20	4911.95	346.84	1.67	-1.60	0.46
17881	87.67	179.07	93	10452.9	4659.85	4690.04	-1116.86	4821.19	346.61	0.77	-0.73	-0.23
17976	86.47	177.46	95	10457.7	4565.12	4595.21	-1113.99	4728.32	346.37	2.11	-1.26	-1.69
18070	91.84	179.40	94	10459.1	4471.31	4501.30	-1111.42	4636.48	346.13	6.07	5.71	2.06
18164	91.24	186.22	94	10456.6	4377.42	4407.50	-1116.02	4546.60	345.79	7.28	-0.64	7.26
18258	89.99	192.64	94	10455.6	4284.38	4314.83	-1131.42	4460.70	345.31	6.96	-1.33	6.83
18353	89.67	192.79	95	10455.9	4191.21	4222.16	-1152.33	4376.58	344.73	0.37	-0.34	0.16
18447	91.80	186.22	94	10454.7	4098.19	4129.51	-1167.84	4291.47	344.21	7.35	2.27	-6.99
18541	89.98	179.18	94	10453.2	4004.29	4035.69	-1172.26	4202.50	343.80	7.73	-1.94	-7.49
18635	88.21	181.80	94	10454.7	3910.33	3941.72	-1173.07	4112.57	343.43	3.36	-1.88	2.79
18729	89.37	182.18	94	10456.7	3816.35	3847.80	-1176.33	4023.59	343.00	1.30	1.23	0.40
18824	90.98	176.07	95	10456.4	3721.48	3752.86	-1174.88	3932.46	342.62	6.65	1.69	-6.43
18918	89.88	179.59	94	10455.7	3627.69	3658.94	-1171.32	3841.86	342.25	3.92	-1.17	3.74
19012	90.06	183.18	94	10455.7	3533.71	3564.99	-1173.59	3753.19	341.78	3.82	0.19	3.82
19106	89.42	175.10	94	10456.1	3439.86	3471.08	-1172.18	3663.66	341.34	8.62	-0.68	-8.60
19200	89.84	179.07	94	10456.7	3346.16	3377.22	-1167.40	3573.30	340.93	4.25	0.45	4.22
19294	88.11	178.26	94	10458.4	3252.29	3283.26	-1165.21	3483.90	340.46	2.03	-1.84	-0.86
19388	89.56	174.39	94	10460.3	3158.71	3189.50	-1159.19	3393.61	340.03	4.40	1.54	-4.12
19482	89.95	175.48	94	10460.7	3065.32	3095.87	-1150.89	3302.87	339.61	1.23	0.41	1.16
19576	90.99	183.88	94	10460.0	2971.46	3001.96	-1150.37	3214.82	339.03	9.00	1.11	8.94
19671	89.28	186.04	95	10459.7	2876.64	2907.32	-1158.58	3129.67	338.27	2.90	-1.80	2.27
19765	89.01	180.88	94	10461.1	2782.74	2813.53	-1164.25	3044.91	337.52	5.50	-0.29	-5.49
19860	89.22	170.33	95	10462.6	2688.38	2718.96	-1156.98	2954.89	336.95	11.11	0.22	-11.11
19939	89.20	168.70	79	10463.7	2611.11	2641.29	-1142.61	2877.84	336.61	2.06	-0.03	-2.06
20033	90.24	174.18	94	10464.2	2518.58	2548.37	-1128.62	2787.11	336.11	5.93	1.11	5.83
20128	90.75	179.90	95	10463.3	2423.91	2453.54	-1123.72	2698.63	335.39	6.04	0.54	6.02
20222	89.87	182.92	94	10462.8	2329.92	2359.59	-1126.03	2614.50	334.49	3.35	-0.94	3.21
20317	88.75	182.03	95	10464.0	2234.95	2264.68	-1130.13	2531.01	333.48	1.51	-1.18	-0.94
20412	89.08	181.65	95	10465.8	2139.97	2169.75	-1133.18	2447.84	332.42	0.53	0.35	-0.40
20506	88.88	182.39	94	10467.5	2045.99	2075.82	-1136.50	2366.57	331.30	0.82	-0.21	0.79
20695	89.68	181.79	189	10469.8	1857.01	1886.97	-1143.39	2206.35	328.79	0.53	0.42	-0.32
20712	89.68	181.79	17	10469.9	1840.01	1869.97	-1143.92	2192.11	328.54	0.00	0.00	0.00