

Minimum Radius of Curvature

API: 42-389-40411 **Well: Teller 186 3H** **Wellhead Location N+/S- : 31.083335**
Operator: Forge Energy Operating **Area: Pyote** **E+/W- : -103.424628**
Rig: **Type: U-Lateral** **Magnetic Declination: 6.34**
TD: 21,050' **Plane of Proposal: 180.00**

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			
365	1.70	16.22	365	365.2	25.88	5.20	1.51	5.42	16.22	0.47	0.47	4.44
454	2.80	8.22	89	454.2	22.46	8.62	2.19	8.90	14.27	1.28	1.24	-8.99
630	3.00	358.22	176	630.0	13.60	17.48	2.66	17.68	8.67	0.31	0.11	198.86
674	2.80	2.22	44	673.9	11.38	19.71	2.67	19.89	7.72	0.65	-0.45	-809.09
718	2.50	2.22	44	717.8	9.35	21.74	2.75	21.91	7.21	0.68	-0.68	0.00
808	1.70	357.22	90	807.8	6.05	25.03	2.76	25.18	6.29	0.91	-0.89	394.44
852	1.80	348.22	44	851.8	4.72	26.36	2.59	26.49	5.61	0.66	0.23	-20.45
897	1.30	342.22	45	896.8	3.54	27.54	2.29	27.63	4.75	1.17	-1.11	-13.33
942	0.80	331.22	45	941.7	2.78	28.30	1.98	28.37	4.00	1.19	-1.11	-24.44
986	0.90	312.22	44	985.7	2.28	28.80	1.58	28.85	3.13	0.68	0.23	-43.18
1031	0.70	304.22	45	1030.7	1.89	29.19	1.09	29.21	2.13	0.51	-0.44	-17.78
1163	1.30	290.22	132	1162.7	0.92	30.17	-0.98	30.18	358.13	0.49	0.45	-10.61
1250	1.20	271.22	87	1249.7	0.56	30.53	-2.82	30.66	354.72	0.49	-0.11	-21.84
1337	1.30	260.22	87	1336.7	0.71	30.38	-4.70	30.74	351.20	0.30	0.11	-12.64
1426	0.70	254.22	89	1425.7	1.03	30.06	-6.22	30.70	348.30	0.68	-0.67	-6.74
1606	0.60	163.22	180	1605.7	2.23	28.86	-7.01	29.70	346.35	0.52	-0.06	-50.56
1693	0.60	111.22	87	1692.6	2.83	28.26	-6.45	28.98	347.14	0.60	0.00	-59.77
1738	0.30	50.22	45	1737.6	2.84	28.25	-6.14	28.91	347.73	1.17	-0.67	-135.56
1781	0.60	57.22	43	1780.6	2.64	28.44	-5.87	29.04	348.35	0.71	0.70	16.28
1826	0.50	35.22	45	1825.6	2.36	28.73	-5.55	29.26	349.06	0.51	-0.22	-48.89
1869	0.70	48.22	43	1868.6	2.03	29.06	-5.25	29.53	349.76	0.56	0.47	30.23
1914	0.70	45.22	45	1913.6	1.65	29.43	-4.85	29.83	350.64	0.08	0.00	-6.67
1957	0.40	77.22	43	1956.6	1.43	29.65	-4.52	29.99	351.34	0.97	-0.70	74.42
2044	0.90	69.22	87	2043.6	1.12	29.96	-3.58	30.17	353.18	0.58	0.57	-9.20
2130	1.10	77.22	86	2129.6	0.70	30.38	-2.15	30.46	355.96	0.28	0.23	9.30
2219	1.00	84.22	89	2218.6	0.43	30.65	-0.54	30.65	358.99	0.18	-0.11	7.87
2308	1.10	88.22	89	2307.6	0.33	30.75	1.09	30.77	2.02	0.14	0.11	4.49
2399	1.60	89.22	91	2398.6	0.28	30.80	3.23	30.97	5.99	0.55	0.55	1.10
2492	1.50	31.22	93	2491.5	-0.77	31.86	5.16	32.27	9.20	1.62	-0.11	-62.37
2599	1.49	93.89	107	2598.2	-1.87	32.96	7.27	33.75	12.43	1.46	-0.01	58.73
2787	4.07	107.48	188	2786.0	0.30	30.79	16.07	34.73	27.56	1.41	1.37	7.23
2882	4.84	100.35	95	2880.7	2.03	29.06	23.23	37.20	38.64	1.00	0.81	-7.51
2977	6.19	110.38	95	2975.2	4.53	26.55	31.97	41.56	50.29	1.74	1.42	10.56
3165	8.69	106.62	188	3161.6	12.13	18.96	55.09	58.26	71.01	1.35	1.33	-2.00
3260	8.53	115.78	95	3255.6	17.24	13.84	68.31	69.70	78.55	1.45	-0.17	9.64
3355	8.27	132.46	95	3349.6	24.92	6.16	79.70	79.93	85.58	2.57	-0.27	17.56
3449	8.68	139.45	94	3442.5	34.87	-3.79	89.29	89.37	92.43	1.18	0.44	7.44
3543	8.15	132.42	94	3535.5	44.76	-13.67	98.82	99.77	97.88	1.23	-0.56	-7.48
3638	6.09	144.99	95	3629.8	53.43	-22.35	106.69	109.00	101.83	2.71	-2.17	13.23
3733	5.19	150.56	95	3724.3	61.30	-30.22	111.69	115.71	105.14	1.11	-0.95	5.86
3828	6.17	141.24	95	3818.9	69.02	-37.94	117.00	123.00	107.97	1.41	1.03	-9.81
3923	6.92	138.61	95	3913.3	77.30	-46.21	123.98	132.31	110.44	0.85	0.79	-2.77
4017	6.24	134.73	94	4006.6	85.14	-54.06	131.35	142.04	112.37	0.86	-0.72	-4.13
4112	7.33	133.68	95	4101.0	92.96	-61.88	139.40	152.52	113.93	1.15	1.15	-1.11
4207	8.49	137.96	95	4195.1	102.35	-71.27	148.48	164.70	115.64	1.37	1.22	4.51
4396	6.08	147.46	189	4382.5	121.16	-90.07	163.21	186.42	118.89	1.42	-1.28	5.03
4491	7.45	152.96	95	4476.9	130.88	-99.80	168.72	196.03	120.61	1.59	1.44	5.79
4586	8.18	155.45	95	4571.0	142.52	-111.43	174.33	206.90	122.59	0.85	0.77	2.62
4680	7.38	156.80	94	4664.1	154.15	-123.07	179.48	217.62	124.44	0.87	-0.85	1.44
4774	6.47	162.00	94	4757.4	164.74	-133.65	183.50	227.01	126.07	1.17	-0.97	5.53
4869	5.99	146.23	95	4851.9	173.95	-142.86	187.91	236.05	127.25	1.86	-0.51	-16.60
4964	7.42	130.14	95	4946.2	182.02	-150.94	195.35	246.87	127.69	2.47	1.51	-16.94
5059	6.95	127.07	95	5040.5	189.44	-158.36	204.63	258.75	127.74	0.64	-0.49	-3.23
5154	6.37	127.71	95	5134.9	196.13	-165.05	213.39	269.77	127.72	0.62	-0.61	0.67
5249	5.89	127.19	95	5229.3	202.30	-171.22	221.44	279.91	127.71	0.51	-0.51	-0.55
5344	6.76	126.93	95	5323.7	208.61	-177.52	229.79	290.38	127.69	0.92	0.92	-0.27
5438	8.54	132.70	94	5416.9	216.66	-185.58	239.34	302.86	127.79	2.06	1.89	6.14

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5533	8.60	132.65	95	5510.8	226.26	-195.18	249.75	316.97	128.01	0.06	0.06	-0.05
5627	7.97	130.33	94	5603.9	235.24	-204.16	259.89	330.49	128.15	0.76	-0.67	-2.47
5723	7.14	130.67	96	5699.0	243.44	-212.35	269.49	343.10	128.24	0.87	-0.86	0.35
5817	7.24	132.25	94	5792.3	251.23	-220.14	278.30	354.85	128.34	0.24	0.11	1.68
5911	6.42	133.02	94	5885.6	258.79	-227.71	286.53	365.99	128.47	0.88	-0.87	0.82
6006	5.51	138.84	95	5980.1	265.85	-234.77	293.42	375.78	128.66	1.15	-0.96	6.13
6100	5.27	143.53	94	6073.7	272.72	-241.64	298.95	384.40	128.95	0.53	-0.26	4.99
6195	6.10	141.97	95	6168.2	280.20	-249.12	304.65	393.54	129.27	0.89	0.87	-1.64
6290	5.55	141.29	95	6262.7	287.77	-256.68	310.64	402.97	129.57	0.58	-0.58	-0.72
6385	6.23	140.76	95	6357.2	295.34	-264.26	316.77	412.53	129.84	0.72	0.72	-0.56
6479	7.34	140.79	94	6450.6	303.95	-272.86	323.79	423.43	130.12	1.18	1.18	0.03
6574	7.07	141.20	95	6544.8	313.20	-282.12	331.29	435.14	130.42	0.29	-0.28	0.43
6668	6.85	144.67	94	6638.1	322.29	-291.20	338.16	446.26	130.73	0.50	-0.23	3.69
6763	6.12	149.50	95	6732.5	331.27	-300.19	344.01	456.57	131.11	0.96	-0.77	5.08
6857	5.59	133.63	94	6826.0	338.75	-307.67	349.86	465.90	131.33	1.81	-0.56	-16.88
7046	5.01	120.19	189	7014.2	349.25	-318.17	363.66	483.20	131.18	0.72	-0.31	-7.11
7141	3.63	130.74	95	7109.0	353.30	-322.22	369.52	490.28	131.09	1.67	-1.45	11.11
7236	2.93	127.60	95	7203.8	356.74	-325.66	373.73	495.71	131.07	0.76	-0.74	-3.31
7330	2.37	128.85	94	7297.7	359.43	-328.35	377.14	500.05	131.04	0.60	-0.60	1.33
7425	1.85	135.51	95	7392.6	361.75	-330.67	379.75	503.54	131.05	0.60	-0.55	7.01
7520	1.55	146.08	95	7487.6	363.91	-332.83	381.54	506.31	131.10	0.46	-0.32	11.13
7614	0.99	161.93	94	7581.6	365.74	-334.66	382.50	508.24	131.18	0.70	-0.60	16.86
7709	1.20	168.06	95	7676.5	367.50	-336.41	382.96	509.74	131.30	0.25	0.22	6.45
7804	1.32	176.45	95	7771.5	369.56	-338.48	383.24	511.31	131.45	0.23	0.13	8.83
7899	0.33	248.23	95	7866.5	370.75	-339.67	383.05	511.96	131.57	1.32	-1.04	75.56
7994	0.53	37.40	95	7961.5	370.51	-339.42	383.06	511.81	131.54	0.87	0.21	-221.93
8088	0.46	350.90	94	8055.5	369.79	-338.71	383.27	511.48	131.47	0.42	-0.07	333.51
8184	0.43	21.64	96	8151.5	369.07	-337.99	383.34	511.06	131.40	0.25	-0.03	-342.98
8278	0.21	238.98	94	8245.5	368.83	-337.75	383.32	510.89	131.38	0.65	-0.23	231.21
8467	0.40	187.54	189	8434.5	369.67	-338.58	382.94	511.16	131.48	0.17	0.10	-27.22
8561	2.08	169.45	94	8528.5	371.67	-340.59	383.21	512.69	131.63	1.81	1.79	-19.24
8655	2.39	172.83	94	8622.4	375.29	-344.21	383.76	515.51	131.89	0.36	0.33	3.60
8750	2.89	163.19	95	8717.3	379.55	-348.47	384.70	519.06	132.17	0.70	0.53	-10.15
8844	2.30	147.82	94	8811.2	383.41	-352.33	386.39	522.91	132.36	0.97	-0.63	-16.35
8939	1.53	139.21	95	8906.2	385.99	-354.90	388.24	526.01	132.43	0.86	-0.81	-9.06
9033	2.19	171.21	94	9000.1	388.71	-357.63	389.33	528.66	132.57	1.28	0.70	34.04
9128	1.74	174.15	95	9095.1	391.94	-360.86	389.76	531.16	132.80	0.49	-0.47	3.09
9222	0.81	206.45	94	9189.0	393.96	-362.87	389.61	532.42	132.97	1.21	-0.99	34.36
9317	0.48	194.17	95	9284.0	394.94	-363.86	389.21	532.80	133.07	0.37	-0.35	-12.93
9411	0.17	123.24	94	9378.0	395.40	-364.32	389.23	533.13	133.11	0.48	-0.33	-75.46
9505	0.75	36.66	94	9472.0	394.98	-363.90	389.71	533.20	133.04	0.81	0.62	-92.11
9600	0.52	45.40	95	9567.0	394.18	-363.10	390.39	533.15	132.93	0.26	-0.24	9.20
9695	0.82	63.35	95	9662.0	393.57	-362.49	391.31	533.40	132.81	0.38	0.32	18.89
9789	1.23	66.50	94	9756.0	392.87	-361.79	392.83	534.05	132.64	0.44	0.44	3.35
9838	1.31	63.94	49	9805.0	392.42	-361.33	393.82	534.47	132.54	0.20	0.16	-5.22
9885	1.14	73.08	47	9852.0	392.04	-360.96	394.75	534.90	132.44	0.55	-0.36	19.45
9932	2.01	159.24	47	9899.0	392.68	-361.59	395.49	535.87	132.44	4.77	1.85	183.32
9979	6.30	176.36	47	9945.8	396.02	-364.94	395.94	538.47	132.67	9.40	9.13	36.43
10026	10.92	180.72	47	9992.3	403.05	-371.97	396.05	543.34	133.20	9.92	9.83	9.28
10074	15.75	183.45	48	10039.0	414.11	-383.02	395.60	550.64	134.07	10.14	10.06	5.69
10121	21.16	184.21	47	10083.5	428.95	-397.86	394.59	560.36	135.24	11.52	11.51	1.62
10168	26.26	183.76	47	10126.6	447.79	-416.71	393.29	573.00	136.66	10.86	10.85	-0.96
10215	30.17	183.33	47	10168.0	469.97	-438.88	391.92	588.41	138.24	8.33	8.32	-0.91
10263	34.12	183.87	48	10208.6	495.45	-464.37	390.31	606.61	139.95	8.25	8.23	1.12
10424	46.37	183.09	161	10331.3	599.08	-568.00	384.10	685.68	145.93	7.62	7.61	-0.48
10474	50.11	183.15	50	10364.6	636.32	-605.23	382.07	715.74	147.74	7.48	7.48	0.12
10569	60.56	183.13	95	10418.5	714.23	-683.14	377.79	780.65	151.06	11.00	11.00	-0.02
10664	69.43	181.15	95	10458.6	800.17	-769.09	374.64	855.48	154.03	9.53	9.34	-2.08

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10759	81.05	182.30	95	10482.8	891.84	-860.75	371.85	937.64	156.64	12.29	12.23	1.21
10854	91.91	183.42	95	10488.6	986.40	-955.31	367.12	1023.43	158.98	11.49	11.43	1.18
10949	92.00	185.07	95	10485.4	1081.08	-1049.99	360.09	1110.02	161.07	1.74	0.09	1.74
11043	92.03	182.23	94	10482.1	1174.82	-1143.74	354.11	1197.30	162.80	3.02	0.03	-3.02
11138	91.12	178.55	95	10479.5	1269.76	-1238.68	353.47	1288.13	164.07	3.99	-0.96	-3.87
11233	89.88	177.98	95	10478.6	1364.71	-1333.63	356.35	1380.42	165.04	1.44	-1.31	-0.60
11327	88.24	177.14	94	10480.2	1458.61	-1427.53	360.35	1472.31	165.83	1.96	-1.74	-0.89
11462	89.78	179.06	135	10482.5	1593.51	-1562.42	364.82	1604.45	166.86	1.82	1.14	1.42
11557	90.39	180.17	95	10482.4	1688.50	-1657.42	365.46	1697.23	167.57	1.33	0.64	1.17
11651	91.83	180.92	94	10480.5	1782.48	-1751.39	364.57	1788.94	168.24	1.73	1.53	0.80
11746	92.20	180.98	95	10477.2	1877.41	-1846.32	362.99	1881.67	168.88	0.39	0.39	0.06
11841	91.72	181.26	95	10474.0	1972.33	-1941.25	361.14	1974.55	169.46	0.58	-0.51	0.29
11935	92.27	181.69	94	10470.7	2066.24	-2035.16	358.72	2066.53	170.00	0.74	0.59	0.46
12030	92.29	180.96	95	10466.9	2161.14	-2130.06	356.52	2159.69	170.50	0.77	0.02	-0.77
12125	92.15	179.83	95	10463.2	2256.07	-2224.98	355.87	2253.26	170.91	1.20	-0.15	-1.19
12220	91.93	179.94	95	10459.8	2351.01	-2319.92	356.06	2347.09	171.27	0.26	-0.23	0.12
12315	90.95	179.90	95	10457.5	2445.98	-2414.89	356.19	2441.02	171.61	1.03	-1.03	-0.04
12410	90.62	180.35	95	10456.2	2540.97	-2509.88	355.98	2535.00	171.93	0.59	-0.35	0.47
12504	90.37	179.98	94	10455.3	2634.96	-2603.88	355.71	2628.06	172.22	0.48	-0.27	-0.39
12599	90.62	180.13	95	10454.5	2729.96	-2698.87	355.62	2722.20	172.49	0.31	0.26	0.16
12694	90.31	180.07	95	10453.7	2824.95	-2793.87	355.46	2816.39	172.75	0.33	-0.33	-0.06
12789	89.94	179.73	95	10453.5	2919.95	-2888.87	355.62	2910.68	172.98	0.53	-0.39	-0.36
12884	90.30	180.11	95	10453.3	3014.95	-2983.87	355.75	3005.00	173.20	0.55	0.38	0.40
12979	90.86	180.18	95	10452.4	3109.95	-3078.86	355.51	3099.32	173.41	0.59	0.59	0.07
13074	90.94	180.55	95	10450.9	3204.93	-3173.85	354.91	3193.63	173.62	0.40	0.08	0.39
13169	91.04	180.74	95	10449.2	3299.91	-3268.83	353.84	3287.93	173.82	0.23	0.11	0.20
13263	90.81	181.15	94	10447.7	3393.89	-3362.80	352.29	3381.21	174.02	0.50	-0.24	0.44
13357	91.33	181.55	94	10446.0	3487.85	-3456.76	350.08	3474.44	174.22	0.70	0.55	0.43
13452	91.46	182.61	95	10443.7	3582.75	-3551.67	346.63	3568.54	174.43	1.12	0.14	1.12
13546	90.39	181.58	94	10442.1	3676.68	-3645.59	343.19	3661.71	174.62	1.58	-1.14	-1.10
13641	89.35	181.27	95	10442.4	3771.64	-3740.56	340.83	3756.06	174.79	1.14	-1.09	-0.33
13736	88.89	181.89	95	10443.8	3866.60	-3835.51	338.21	3850.40	174.96	0.81	-0.48	0.65
13830	89.33	181.59	94	10445.3	3960.54	-3929.46	335.36	3943.74	175.12	0.57	0.47	-0.32
13925	89.02	181.24	95	10446.6	4055.50	-4024.42	333.01	4038.17	175.27	0.49	-0.33	-0.37
14020	90.24	179.86	95	10447.3	4150.49	-4119.41	332.10	4132.77	175.39	1.94	1.28	-1.45
14115	90.40	179.56	95	10446.7	4245.49	-4214.41	332.58	4227.51	175.49	0.36	0.17	-0.32
14209	90.33	178.90	94	10446.1	4339.48	-4308.39	333.84	4321.31	175.57	0.71	-0.07	-0.70
14304	92.39	177.79	95	10443.9	4434.40	-4403.32	336.59	4416.17	175.63	2.46	2.17	-1.17
14399	93.76	175.13	95	10438.8	4529.08	-4497.99	342.44	4511.01	175.65	3.15	1.44	-2.80
14493	94.54	171.93	94	10432.0	4622.22	-4591.14	353.00	4604.69	175.60	3.50	0.83	-3.40
14530	94.73	170.53	37	10429.0	4658.67	-4627.58	358.63	4641.46	175.57	3.81	0.51	-3.78
14601	91.76	164.59	71	10425.0	4727.85	-4696.77	373.89	4711.62	175.45	9.34	-4.18	-8.37
14696	89.52	159.38	95	10423.9	4818.15	-4787.07	403.26	4804.02	175.18	5.97	-2.36	-5.48
14791	88.68	150.40	95	10425.4	4904.07	-4872.99	443.53	4893.13	174.80	9.49	-0.88	-9.45
14885	89.58	143.16	94	10426.8	4982.65	-4951.56	494.99	4976.24	174.29	7.76	0.96	-7.70
14980	91.20	136.45	95	10426.2	5055.17	-5024.08	556.26	5054.78	173.68	7.27	1.71	-7.06
15074	89.12	130.93	94	10425.9	5120.07	-5088.99	624.20	5127.12	173.01	6.28	-2.21	-5.87
15169	88.11	120.91	95	10428.2	5175.72	-5144.63	701.01	5192.17	172.24	10.60	-1.06	-10.55
15264	89.58	111.82	95	10430.1	5217.85	-5186.76	786.02	5245.98	171.38	9.69	1.55	-9.57
15359	90.65	104.57	95	10429.9	5247.49	-5216.41	876.21	5289.49	170.46	7.71	1.13	-7.63
15454	90.22	99.03	95	10429.2	5266.91	-5235.83	969.16	5324.77	169.51	5.85	-0.45	-5.83
15549	89.43	92.46	95	10429.5	5276.41	-5245.33	1063.63	5352.09	168.54	6.97	-0.83	-6.92
15643	90.90	85.97	94	10429.2	5275.13	-5244.04	1157.57	5370.29	167.55	7.08	1.56	-6.90
15738	89.38	82.99	95	10429.0	5265.99	-5234.91	1252.12	5382.57	166.55	3.52	-1.60	-3.14
15833	89.65	80.72	95	10429.8	5252.53	-5221.45	1346.15	5392.18	165.54	2.41	0.28	-2.39
15928	88.83	74.64	95	10431.1	5232.27	-5201.19	1438.91	5396.56	164.54	6.46	-0.86	-6.40
16023	88.62	66.37	95	10433.2	5200.61	-5169.52	1528.36	5390.72	163.53	8.71	-0.22	-8.71
16117	89.02	59.45	94	10435.1	5157.83	-5126.75	1611.98	5374.20	162.55	7.37	0.43	-7.36

Minimum Radius of Curvature

API: 42-389-40411 **Well: Teller 186 3H** **Wellhead Location N+/S- : 31.083335**
Operator: Forge Energy Operating **Area: Pyote** **E+/W- : -103.424628**
Rig: **Type: U-Lateral** **Magnetic Declination: 6.34**
TD: 21,050' **Plane of Proposal: 180.00**

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			
16213	89.22	54.38	96	10436.6	5105.45	-5074.37	1692.38	5349.15	161.56	5.28	0.21	-5.28
16307	89.57	45.35	94	10437.6	5044.93	-5013.84	1764.17	5315.16	160.62	9.61	0.37	-9.61
16402	89.00	39.63	95	10438.8	4974.91	-4943.83	1828.30	5271.06	159.70	6.05	-0.60	-6.02
16497	89.53	32.15	95	10440.0	4898.01	-4866.92	1883.95	5218.83	158.84	7.89	0.56	-7.87
16591	90.66	25.05	94	10439.9	4815.53	-4784.45	1928.92	5158.65	158.04	7.65	1.20	-7.55
16686	89.04	19.75	95	10440.1	4727.73	-4696.65	1965.11	5091.19	157.30	5.83	-1.71	-5.58
16781	88.59	15.52	95	10442.1	4637.24	-4606.16	1993.87	5019.18	156.59	4.48	-0.47	-4.45
16875	88.96	7.64	94	10444.1	4545.25	-4514.16	2012.72	4942.54	155.97	8.39	0.39	-8.38
16970	88.89	3.15	95	10445.9	4450.71	-4419.62	2021.65	4860.06	155.42	4.73	-0.07	-4.73
17065	88.50	3.01	95	10448.0	4355.87	-4324.79	2026.75	4776.14	154.89	0.44	-0.41	-0.15
17159	88.47	3.09	94	10450.5	4262.04	-4230.95	2031.75	4693.50	154.35	0.09	-0.03	0.09
17254	87.40	2.69	95	10453.9	4167.22	-4136.14	2036.54	4610.33	153.79	1.20	-1.13	-0.42
17348	88.88	3.39	94	10457.0	4073.40	-4042.32	2041.52	4528.60	153.20	1.74	1.57	0.74
17443	88.24	3.13	95	10459.4	3978.59	-3947.51	2046.92	4446.65	152.59	0.73	-0.67	-0.27
17472	88.19	3.21	29	10460.3	3949.65	-3918.56	2048.53	4421.72	152.40	0.33	-0.17	0.28
17575	90.12	1.13	103	10461.8	3846.74	-3815.66	2052.43	4332.63	151.72	2.75	1.87	-2.02
17670	89.57	0.53	95	10462.1	3751.75	-3720.67	2053.80	4249.88	151.10	0.86	-0.58	-0.63
17764	89.47	0.49	94	10462.8	3657.76	-3626.68	2054.64	4168.25	150.47	0.11	-0.11	-0.04
17859	88.56	359.96	95	10464.5	3562.78	-3531.69	2055.01	4086.07	149.81	1.11	-0.96	378.39
17953	89.27	0.81	94	10466.3	3468.80	-3437.71	2055.64	4005.44	149.12	1.18	0.76	-382.07
18048	89.52	1.82	95	10467.3	3373.83	-3342.75	2057.82	3925.38	148.38	1.10	0.26	1.06
18142	89.92	3.98	94	10467.7	3279.96	-3248.87	2062.58	3848.30	147.59	2.34	0.43	2.30
18237	88.94	2.37	95	10468.7	3185.11	-3154.03	2067.84	3771.45	146.75	1.98	-1.03	-1.69
18331	89.76	0.01	94	10469.7	3091.14	-3060.06	2069.79	3694.32	145.93	2.66	0.87	-2.51
18426	88.91	0.12	95	10470.8	2996.15	-2965.07	2069.90	3616.09	145.08	0.90	-0.89	0.12
18521	88.87	359.51	95	10472.7	2901.17	-2870.09	2069.59	3538.45	144.20	0.64	-0.04	378.31
18615	89.18	359.70	94	10474.3	2807.19	-2776.10	2068.94	3462.27	143.30	0.39	0.33	0.20
18709	90.19	1.42	94	10474.8	2713.20	-2682.11	2069.86	3387.93	142.34	2.12	1.07	-381.15
18804	90.41	3.34	95	10474.3	2618.29	-2587.20	2073.81	3315.76	141.29	2.03	0.23	2.02
18899	87.67	359.29	95	10475.9	2523.35	-2492.27	2075.99	3243.63	140.21	5.15	-2.88	374.68
18993	89.14	359.75	94	10478.5	2429.39	-2398.31	2075.20	3171.49	139.13	1.64	1.56	0.49
19088	88.64	0.08	95	10480.3	2334.41	-2303.33	2075.06	3100.19	137.98	0.63	-0.53	-378.60
19182	88.02	0.32	94	10483.1	2240.45	-2209.37	2075.39	3031.26	136.79	0.71	-0.66	0.26
19277	88.02	358.12	95	10486.4	2145.53	-2114.44	2074.10	2961.88	135.55	2.31	0.00	376.63
19372	90.42	358.19	95	10487.7	2050.59	-2019.51	2071.04	2892.68	134.28	2.53	2.53	0.07
19467	90.94	357.48	95	10486.5	1955.67	-1924.58	2067.45	2824.60	132.95	0.93	0.55	-0.75
19561	90.73	357.26	94	10485.2	1861.78	-1830.69	2063.14	2758.25	131.58	0.32	-0.22	-0.23
19656	91.04	359.63	95	10483.7	1766.83	-1735.74	2060.56	2694.20	130.11	2.52	0.33	2.49
19751	89.89	359.33	95	10482.9	1671.84	-1640.75	2059.70	2633.33	128.54	1.25	-1.21	-0.32
19846	89.70	359.11	95	10483.3	1576.85	-1545.76	2058.40	2574.18	126.90	0.31	-0.20	-0.23
19941	87.00	357.88	95	10486.0	1481.93	-1450.85	2055.91	2516.29	125.21	3.12	-2.84	-1.29
20035	87.61	359.13	94	10490.4	1388.07	-1356.98	2053.46	2461.32	123.46	1.48	0.65	1.33
20130	90.02	2.04	95	10492.4	1293.11	-1262.03	2054.43	2411.10	121.56	3.98	2.54	-375.88
20225	89.21	1.25	95	10493.0	1198.15	-1167.07	2057.16	2365.15	119.57	1.19	-0.85	-0.83
20319	89.30	2.16	94	10494.2	1104.20	-1073.12	2059.96	2322.72	117.52	0.97	0.10	0.97
20413	88.27	1.64	94	10496.2	1010.28	-979.19	2063.07	2283.66	115.39	1.23	-1.10	-0.55
20508	87.00	1.72	95	10500.1	915.40	-884.32	2065.85	2247.17	113.17	1.34	-1.34	0.08
20602	87.57	3.19	94	10504.6	821.60	-790.51	2069.88	2215.69	110.90	1.68	0.61	1.56
20698	87.87	3.46	96	10508.4	725.83	-694.75	2075.44	2188.64	108.51	0.42	0.31	0.28
20792	90.80	6.54	94	10509.5	632.22	-601.14	2083.63	2168.61	106.09	4.52	3.12	3.28
20887	89.63	5.18	95	10509.2	537.72	-506.64	2093.33	2153.77	103.61	1.89	-1.23	-1.43
20981	90.67	6.82	94	10508.9	444.24	-413.16	2103.16	2143.35	101.11	2.07	1.11	1.74
20997	90.99	7.36	16	10508.7	428.36	-397.28	2105.13	2142.29	100.69	3.92	2.00	3.38
21050	90.99	7.36	53	10507.8	375.81	-344.73	2111.92	2139.87	99.27	#NUM!	0.00	0.00