

Minimum Radius of Curvature

API: 30-025-52959 **Well: Burke State Com 129H** **WH Lat : 32.254461**
Operator: Matador Resources **Area: Jal, NM** **Long : -103.388578**
Rig: **Type: U-Lateral** **Magnetic Declination: 6.11**
TD: 21,215' **Plane of Proposal: 359.45**

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			
100	0.00	0.00	100	100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	0.00	0.00	100	200.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	0.00	0.00	100	300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400	0.00	0.00	100	400.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500	0.00	0.00	100	500.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600	0.00	0.00	100	600.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700	0.00	0.00	100	700.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800	0.00	0.00	100	800.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900	0.00	0.00	100	900.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000	0.00	0.00	100	1000.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100	2.00	115.36	100	1100.0	-0.76	-0.75	1.58	1.75	115.36	2.00	2.00	115.36
1200	4.00	115.36	100	1199.8	-3.05	-2.99	6.31	6.98	115.36	2.00	2.00	0.00
1290	5.79	115.36	90	1289.0	-6.39	-6.26	13.21	14.62	115.36	2.00	2.00	0.00
1300	6.00	115.36	11	1299.5	-6.86	-6.72	14.18	15.69	115.36	2.00	2.00	0.00
1400	8.00	115.36	100	1398.7	-12.18	-11.94	25.19	27.88	115.36	2.00	2.00	0.00
1500	8.00	115.36	100	1497.7	-18.26	-17.90	37.77	41.80	115.36	0.00	0.00	0.00
1600	8.00	115.36	100	1596.8	-24.34	-23.86	50.35	55.71	115.36	0.00	0.00	0.00
1700	8.00	115.36	100	1695.8	-30.43	-29.82	62.92	69.63	115.36	0.00	0.00	0.00
1800	8.00	115.36	100	1794.8	-36.51	-35.78	75.50	83.55	115.36	0.00	0.00	0.00
1900	8.00	115.36	100	1893.8	-42.59	-41.75	88.07	97.47	115.36	0.00	0.00	0.00
2000	8.00	115.36	100	1992.9	-48.67	-47.71	100.65	111.38	115.36	0.00	0.00	0.00
2100	8.00	115.36	100	2091.9	-54.75	-53.67	113.23	125.30	115.36	0.00	0.00	0.00
2200	8.00	115.36	100	2190.9	-60.83	-59.63	125.80	139.22	115.36	0.00	0.00	0.00
2300	8.00	115.36	100	2289.9	-66.91	-65.59	138.38	153.14	115.36	0.00	0.00	0.00
2400	8.00	115.36	100	2389.0	-73.00	-71.55	150.95	167.05	115.36	0.00	0.00	0.00
2500	8.00	115.36	100	2488.0	-79.08	-77.51	163.53	180.97	115.36	0.00	0.00	0.00
2600	8.00	115.36	100	2587.0	-85.16	-83.47	176.11	194.89	115.36	0.00	0.00	0.00
2700	8.00	115.36	100	2686.1	-91.24	-89.43	188.68	208.80	115.36	0.00	0.00	0.00
2800	8.00	115.36	100	2785.1	-97.32	-95.39	201.26	222.72	115.36	0.00	0.00	0.00
2900	8.00	115.36	100	2884.1	-103.40	-101.35	213.84	236.64	115.36	0.00	0.00	0.00
3000	8.00	115.36	100	2983.1	-109.48	-107.31	226.41	250.56	115.36	0.00	0.00	0.00
3100	8.00	115.36	100	3082.2	-115.56	-113.28	238.99	264.47	115.36	0.00	0.00	0.00
3200	8.00	115.36	100	3181.2	-121.65	-119.24	251.56	278.39	115.36	0.00	0.00	0.00
3300	8.00	115.36	100	3280.2	-127.73	-125.20	264.14	292.31	115.36	0.00	0.00	0.00
3400	8.00	115.36	100	3379.2	-133.81	-131.16	276.72	306.23	115.36	0.00	0.00	0.00
3500	8.00	115.36	100	3478.3	-139.89	-137.12	289.29	320.14	115.36	0.00	0.00	0.00
3600	8.00	115.36	100	3577.3	-145.97	-143.08	301.87	334.06	115.36	0.00	0.00	0.00
3700	8.00	115.36	100	3676.3	-152.05	-149.04	314.44	347.98	115.36	0.00	0.00	0.00
3800	8.00	115.36	100	3775.3	-158.13	-155.00	327.02	361.90	115.36	0.00	0.00	0.00
3900	8.00	115.36	100	3874.4	-164.21	-160.96	339.60	375.81	115.36	0.00	0.00	0.00
4000	8.00	115.36	100	3973.4	-170.30	-166.92	352.17	389.73	115.36	0.00	0.00	0.00
4100	8.00	115.36	100	4072.4	-176.38	-172.88	364.75	403.65	115.36	0.00	0.00	0.00
4200	8.00	115.36	100	4171.5	-182.46	-178.84	377.33	417.56	115.36	0.00	0.00	0.00
4300	8.00	115.36	100	4270.5	-188.54	-184.81	389.90	431.48	115.36	0.00	0.00	0.00
4400	8.00	115.36	100	4369.5	-194.62	-190.77	402.48	445.40	115.36	0.00	0.00	0.00
4500	8.00	115.36	100	4468.5	-200.70	-196.73	415.05	459.32	115.36	0.00	0.00	0.00
4600	8.00	115.36	100	4567.6	-206.78	-202.69	427.63	473.23	115.36	0.00	0.00	0.00
4676	8.00	115.36	76	4642.8	-211.41	-207.22	437.19	483.81	115.36	0.00	0.00	0.00
4700	7.64	115.36	24	4666.6	-212.83	-208.62	440.14	487.08	115.36	1.50	-1.50	0.00
4800	6.14	115.36	100	4765.9	-218.07	-213.75	450.98	499.07	115.36	1.50	-1.50	0.00
4900	4.64	115.36	100	4865.4	-222.18	-217.78	459.47	508.47	115.36	1.50	-1.50	0.00
5000	3.14	115.36	100	4965.2	-225.14	-220.68	465.60	515.25	115.36	1.50	-1.50	0.00
5100	1.64	115.36	100	5065.1	-226.96	-222.47	469.37	519.42	115.36	1.50	-1.50	0.00
5200	0.14	115.36	100	5165.1	-227.64	-223.13	470.77	520.97	115.36	1.50	-1.50	0.00
5300	0.00	0.00	100	5265.1	-227.70	-223.19	470.88	521.10	115.36	0.14	0.00	0.00
5400	0.00	0.00	100	5365.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
5500	0.00	0.00	100	5465.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00

Minimum Radius of Curvature

API: 30-025-52959 **Well: Burke State Com 129H** **WH Lat : 32.254461**
Operator: Matador Resources **Area: Jal, NM** **Long : -103.388578**
Rig: **Type: U-Lateral** **Magnetic Declination: 6.11**
TD: 21,215' **Plane of Proposal: 359.45**

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			
5600	0.00	0.00	100	5565.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
5700	0.00	0.00	100	5665.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
5800	0.00	0.00	100	5765.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
5900	0.00	0.00	100	5865.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
6000	0.00	0.00	100	5965.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
6100	0.00	0.00	100	6065.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
6200	0.00	0.00	100	6165.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
6300	0.00	0.00	100	6265.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
6400	0.00	0.00	100	6365.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
6500	0.00	0.00	100	6465.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
6600	0.00	0.00	100	6565.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
6700	0.00	0.00	100	6665.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
6800	0.00	0.00	100	6765.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
6900	0.00	0.00	100	6865.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
7000	0.00	0.00	100	6965.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
7100	0.00	0.00	100	7065.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
7200	0.00	0.00	100	7165.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
7300	0.00	0.00	100	7265.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
7400	0.00	0.00	100	7365.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
7500	0.00	0.00	100	7465.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
7600	0.00	0.00	100	7565.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
7700	0.00	0.00	100	7665.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
7800	0.00	0.00	100	7765.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
7900	0.00	0.00	100	7865.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
8000	0.00	0.00	100	7965.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
8100	0.00	0.00	100	8065.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
8200	0.00	0.00	100	8165.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
8300	0.00	0.00	100	8265.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
8400	0.00	0.00	100	8365.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
8500	0.00	0.00	100	8465.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
8600	0.00	0.00	100	8565.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
8700	0.00	0.00	100	8665.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
8800	0.00	0.00	100	8765.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
8900	0.00	0.00	100	8865.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
8908	0.00	0.00	8	8873.0	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9000	0.00	0.00	92	8965.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9016	0.00	0.00	16	8981.0	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9100	0.00	0.00	84	9065.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9200	0.00	0.00	100	9165.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9300	0.00	0.00	100	9265.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9400	0.00	0.00	100	9365.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9500	0.00	0.00	100	9465.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9600	0.00	0.00	100	9565.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9700	0.00	0.00	100	9665.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9800	0.00	0.00	100	9765.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9900	0.00	0.00	100	9865.1	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9938	0.00	0.00	38	9903.0	-227.70	-223.19	470.88	521.10	115.36	0.00	0.00	0.00
9966	2.80	1.24	28	9931.0	-227.01	-222.50	470.89	520.82	115.29	10.00	10.00	4.43
10000	6.21	1.24	34	9965.0	-224.34	-219.83	470.95	519.73	115.02	10.00	10.00	0.00
10100	16.21	1.24	100	10062.9	-204.93	-200.41	471.37	512.21	113.03	10.00	10.00	0.00
10143	20.54	1.24	43	10104.0	-191.29	-186.77	471.67	507.30	111.60	10.00	10.00	0.00
10200	26.21	1.24	57	10156.0	-168.82	-164.29	472.15	499.92	109.19	10.00	10.00	0.00
10300	36.21	1.24	100	10241.5	-117.09	-112.55	473.27	486.47	103.38	10.00	10.00	0.00
10366	42.76	1.24	66	10292.0	-75.48	-70.93	474.18	479.45	98.51	10.00	10.00	0.00
10400	46.21	1.24	35	10316.6	-51.32	-46.77	474.70	477.00	95.63	10.00	10.00	0.00
10500	56.21	1.24	100	10379.2	26.49	31.06	476.38	477.39	86.27	10.00	10.00	0.00
10600	66.21	1.24	100	10427.3	113.97	118.57	478.28	492.75	76.08	10.00	10.00	0.00
10700	76.21	1.24	100	10459.4	208.48	213.10	480.32	525.47	66.08	10.00	10.00	0.00

Minimum Radius of Curvature

API: 30-025-52959 **Well: Burke State Com 129H** **WH Lat : 32.254461**
Operator: Matador Resources **Area: Jal, NM** **Long : -103.388578**
Rig: **Type: U-Lateral** **Magnetic Declination: 6.11**
TD: 21,215' **Plane of Proposal: 359.45**

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			
10800	86.21	1.24	100	10474.7	307.13	311.77	482.46	574.43	57.13	10.00	10.00	0.00
10838	90.00	1.24	38	10475.9	344.98	349.64	483.28	596.49	54.12	10.00	10.00	0.00
10900	90.01	360.00	62	10475.9	407.07	411.73	483.95	635.40	49.61	2.00	0.02	577.71
10928	90.01	359.44	28	10475.9	434.77	439.43	483.82	653.59	47.75	2.02	0.00	-2.02
11000	90.01	359.44	72	10475.9	507.07	511.73	483.11	703.75	43.35	0.00	0.00	0.00
11100	90.01	359.44	100	10475.9	607.07	611.72	482.13	778.88	38.24	0.00	0.00	0.00
11200	90.01	359.44	100	10475.9	707.07	711.72	481.15	859.10	34.06	0.00	0.00	0.00
11300	90.01	359.44	100	10475.9	807.07	811.71	480.18	943.11	30.61	0.00	0.00	0.00
11400	90.01	359.44	100	10475.9	907.07	911.71	479.20	1029.97	27.73	0.00	0.00	0.00
11500	90.01	359.44	100	10475.8	1007.07	1011.70	478.22	1119.04	25.30	0.00	0.00	0.00
11600	90.01	359.44	100	10475.8	1107.07	1111.70	477.24	1209.81	23.23	0.00	0.00	0.00
11700	90.01	359.44	100	10475.8	1207.07	1211.69	476.27	1301.93	21.46	0.00	0.00	0.00
11800	90.01	359.44	100	10475.8	1307.07	1311.69	475.29	1395.14	19.92	0.00	0.00	0.00
11900	90.01	359.44	100	10475.8	1407.07	1411.68	474.31	1489.24	18.57	0.00	0.00	0.00
12000	90.01	359.44	100	10475.7	1507.07	1511.68	473.33	1584.05	17.39	0.00	0.00	0.00
12100	90.01	359.44	100	10475.7	1607.07	1611.68	472.36	1679.47	16.34	0.00	0.00	0.00
12200	90.01	359.44	100	10475.7	1707.07	1711.67	471.38	1775.39	15.40	0.00	0.00	0.00
12300	90.01	359.44	100	10475.7	1807.07	1811.67	470.40	1871.74	14.56	0.00	0.00	0.00
12400	90.01	359.44	100	10475.7	1907.07	1911.66	469.43	1968.45	13.80	0.00	0.00	0.00
12500	90.01	359.44	100	10475.7	2007.07	2011.66	468.45	2065.48	13.11	0.00	0.00	0.00
12600	90.01	359.44	100	10475.6	2107.07	2111.65	467.47	2162.78	12.48	0.00	0.00	0.00
12700	90.01	359.44	100	10475.6	2207.07	2211.65	466.49	2260.31	11.91	0.00	0.00	0.00
12800	90.01	359.44	100	10475.6	2307.07	2311.64	465.52	2358.05	11.39	0.00	0.00	0.00
12900	90.01	359.44	100	10475.6	2407.07	2411.64	464.54	2455.97	10.90	0.00	0.00	0.00
13000	90.01	359.44	100	10475.6	2507.07	2511.63	463.56	2554.05	10.46	0.00	0.00	0.00
13100	90.01	359.44	100	10475.6	2607.07	2611.63	462.58	2652.28	10.04	0.00	0.00	0.00
13200	90.01	359.44	100	10475.5	2707.07	2711.62	461.61	2750.63	9.66	0.00	0.00	0.00
13300	90.01	359.44	100	10475.5	2807.07	2811.62	460.63	2849.10	9.30	0.00	0.00	0.00
13400	90.01	359.44	100	10475.5	2907.07	2911.61	459.65	2947.67	8.97	0.00	0.00	0.00
13500	90.01	359.44	100	10475.5	3007.07	3011.61	458.67	3046.34	8.66	0.00	0.00	0.00
13600	90.01	359.44	100	10475.5	3107.07	3111.60	457.70	3145.09	8.37	0.00	0.00	0.00
13700	90.01	359.44	100	10475.5	3207.07	3211.60	456.72	3243.91	8.09	0.00	0.00	0.00
13800	90.01	359.44	100	10475.4	3307.07	3311.59	455.74	3342.81	7.84	0.00	0.00	0.00
13900	90.01	359.44	100	10475.4	3407.07	3411.59	454.76	3441.77	7.59	0.00	0.00	0.00
14000	90.01	359.44	100	10475.4	3507.07	3511.58	453.79	3540.78	7.36	0.00	0.00	0.00
14100	90.01	359.44	100	10475.4	3607.07	3611.58	452.81	3639.85	7.15	0.00	0.00	0.00
14200	90.01	359.44	100	10475.4	3707.07	3711.57	451.83	3738.98	6.94	0.00	0.00	0.00
14300	90.01	359.44	100	10475.3	3807.07	3811.57	450.86	3838.14	6.75	0.00	0.00	0.00
14400	90.01	359.44	100	10475.3	3907.07	3911.57	449.88	3937.35	6.56	0.00	0.00	0.00
14500	90.01	359.44	100	10475.3	4007.07	4011.56	448.90	4036.60	6.38	0.00	0.00	0.00
14600	90.01	359.44	100	10475.3	4107.07	4111.56	447.92	4135.88	6.22	0.00	0.00	0.00
14700	90.01	359.44	100	10475.3	4207.07	4211.55	446.95	4235.20	6.06	0.00	0.00	0.00
14734	90.01	359.44	34	10475.3	4241.47	4245.95	446.61	4269.37	6.00	0.00	0.00	0.00
14800	90.01	5.15	66	10475.3	4306.96	4311.47	449.24	4334.81	5.95	8.70	0.00	-540.08
14900	90.01	13.85	100	10475.2	4405.33	4410.00	465.72	4434.53	6.03	8.70	0.00	8.70
15000	90.01	22.55	100	10475.2	4499.93	4504.91	496.93	4532.23	6.29	8.70	0.00	8.70
15100	90.00	31.25	100	10475.2	4588.59	4594.00	542.13	4625.88	6.73	8.70	-0.01	8.70
15200	90.00	39.95	100	10475.2	4669.26	4675.24	600.28	4713.62	7.32	8.70	0.00	8.70
15300	90.00	48.65	100	10475.2	4740.09	4746.74	670.06	4793.80	8.03	8.70	0.00	8.70
15400	90.00	57.35	100	10475.2	4799.44	4806.86	749.85	4864.99	8.87	8.70	0.00	8.70
15500	89.99	66.05	100	10475.2	4845.96	4854.22	837.81	4925.99	9.79	8.70	-0.01	8.70
15600	89.99	74.75	100	10475.2	4878.56	4887.74	931.92	4975.79	10.79	8.70	0.00	8.70
15700	89.99	83.45	100	10475.3	4896.51	4906.63	1030.03	5013.58	11.86	8.70	0.00	8.70
15772	89.99	89.69	72	10475.3	4900.12	4910.92	1101.66	5032.97	12.64	8.69	0.00	8.69
15800	89.99	92.14	28	10475.3	4899.40	4910.47	1129.86	5038.78	12.96	8.69	0.00	8.69
15900	89.99	100.80	100	10475.3	4887.19	4899.21	1229.12	5051.04	14.08	8.66	0.00	8.66
16000	89.99	109.46	100	10475.3	4860.19	4873.14	1325.57	5050.21	15.22	8.66	0.00	8.66
16100	89.99	118.12	100	10475.3	4819.01	4832.84	1416.98	5036.28	16.34	8.66	0.00	8.66

Minimum Radius of Curvature

API: 30-025-52959 **Well: Burke State Com 129H** **WH Lat : 32.254461**
Operator: Matador Resources **Area: Jal, NM** **Long : -103.388578**
Rig: **Type: U-Lateral** **Magnetic Declination: 6.11**
TD: 21,215' **Plane of Proposal: 359.45**

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			
16200	90.00	126.78	100	10475.3	4764.60	4779.23	1501.29	5009.48	17.44	8.66	0.01	8.66
16300	90.00	135.44	100	10475.3	4698.19	4713.54	1576.56	4970.21	18.49	8.66	0.00	8.66
16400	90.00	144.11	100	10475.3	4621.30	4637.26	1641.08	4919.08	19.49	8.67	0.00	8.67
16500	90.01	152.77	100	10475.3	4555.67	4552.14	1693.37	4856.90	20.40	8.66	0.01	8.66
16600	90.01	161.43	100	10475.3	4443.27	4460.11	1732.24	4784.68	21.23	8.66	0.00	8.66
16700	90.01	170.09	100	10475.3	4346.21	4363.27	1756.82	4703.67	21.93	8.66	0.00	8.66
16800	90.01	178.75	100	10475.3	4246.69	4263.84	1766.53	4615.30	22.50	8.66	0.00	8.66
16807	90.01	179.35	7	10475.3	4239.79	4256.94	1766.65	4608.97	22.54	8.70	0.00	8.70
16811	90.00	179.43	4	10475.3	4235.69	4252.84	1766.69	4605.20	22.56	1.97	-0.24	1.95
16900	90.00	179.43	89	10475.3	4146.69	4163.84	1767.58	4523.49	23.00	0.00	0.00	0.00
17000	90.00	179.43	100	10475.3	4046.69	4063.85	1768.57	4432.01	23.52	0.00	0.00	0.00
17100	90.00	179.43	100	10475.3	3946.69	3963.85	1769.57	4340.91	24.06	0.00	0.00	0.00
17200	90.00	179.43	100	10475.3	3846.69	3863.86	1770.56	4250.21	24.62	0.00	0.00	0.00
17300	90.00	179.43	100	10475.3	3746.69	3763.86	1771.56	4159.94	25.21	0.00	0.00	0.00
17400	90.00	179.43	100	10475.3	3646.69	3663.87	1772.55	4070.12	25.82	0.00	0.00	0.00
17500	90.00	179.43	100	10475.3	3546.69	3563.87	1773.54	3980.79	26.46	0.00	0.00	0.00
17600	90.00	179.43	100	10475.3	3446.69	3463.88	1774.54	3891.97	27.13	0.00	0.00	0.00
17700	90.00	179.43	100	10475.3	3346.69	3363.88	1775.53	3803.71	27.83	0.00	0.00	0.00
17800	90.00	179.43	100	10475.3	3246.69	3263.89	1776.53	3716.05	28.56	0.00	0.00	0.00
17900	90.00	179.43	100	10475.3	3146.69	3163.89	1777.52	3629.02	29.33	0.00	0.00	0.00
18000	90.00	179.43	100	10475.3	3046.69	3063.90	1778.52	3542.68	30.13	0.00	0.00	0.00
18100	90.00	179.43	100	10475.3	2946.69	2963.90	1779.51	3457.08	30.98	0.00	0.00	0.00
18200	90.00	179.43	100	10475.3	2846.69	2863.91	1780.51	3372.27	31.87	0.00	0.00	0.00
18300	90.00	179.43	100	10475.3	2746.69	2763.91	1781.50	3288.31	32.80	0.00	0.00	0.00
18400	90.00	179.43	100	10475.3	2646.69	2663.92	1782.50	3205.27	33.79	0.00	0.00	0.00
18500	90.00	179.43	100	10475.3	2546.69	2563.92	1783.49	3123.23	34.82	0.00	0.00	0.00
18600	90.00	179.43	100	10475.3	2446.69	2463.93	1784.49	3042.26	35.91	0.00	0.00	0.00
18700	90.00	179.43	100	10475.3	2346.69	2363.93	1785.48	2962.45	37.06	0.00	0.00	0.00
18800	90.00	179.43	100	10475.3	2246.69	2263.94	1786.48	2883.91	38.28	0.00	0.00	0.00
18900	90.00	179.43	100	10475.3	2146.69	2163.94	1787.47	2806.73	39.56	0.00	0.00	0.00
19000	90.00	179.43	100	10475.3	2046.69	2063.95	1788.47	2731.02	40.91	0.00	0.00	0.00
19100	90.00	179.43	100	10475.3	1946.69	1963.95	1789.46	2656.93	42.34	0.00	0.00	0.00
19200	90.00	179.43	100	10475.3	1846.69	1863.96	1790.46	2584.58	43.85	0.00	0.00	0.00
19300	90.00	179.43	100	10475.3	1746.69	1763.96	1791.45	2514.13	45.44	0.00	0.00	0.00
19400	90.00	179.43	100	10475.3	1646.69	1663.97	1792.45	2445.74	47.13	0.00	0.00	0.00
19500	90.00	179.43	100	10475.3	1546.69	1563.97	1793.44	2379.59	48.91	0.00	0.00	0.00
19600	90.00	179.43	100	10475.3	1446.69	1463.98	1794.44	2315.87	50.79	0.00	0.00	0.00
19700	90.00	179.43	100	10475.3	1346.69	1363.98	1795.43	2254.78	52.78	0.00	0.00	0.00
19800	90.00	179.43	100	10475.3	1246.69	1263.99	1796.43	2196.55	54.87	0.00	0.00	0.00
19900	90.00	179.43	100	10475.3	1146.69	1163.99	1797.42	2141.40	57.07	0.00	0.00	0.00
20000	90.00	179.43	100	10475.3	1046.69	1064.00	1798.42	2089.59	59.39	0.00	0.00	0.00
20100	90.00	179.43	100	10475.3	946.69	964.00	1799.41	2041.37	61.82	0.00	0.00	0.00
20200	90.00	179.43	100	10475.3	846.69	864.01	1800.40	1996.99	64.36	0.00	0.00	0.00
20300	90.00	179.43	100	10475.3	746.69	764.01	1801.40	1956.72	67.02	0.00	0.00	0.00
20400	90.00	179.43	100	10475.3	646.69	664.02	1802.39	1920.82	69.78	0.00	0.00	0.00
20500	90.00	179.43	100	10475.3	546.69	564.02	1803.39	1889.53	72.63	0.00	0.00	0.00
20600	90.00	179.43	100	10475.3	446.69	464.03	1804.38	1863.10	75.58	0.00	0.00	0.00
20700	90.00	179.43	100	10475.3	346.69	364.03	1805.38	1841.71	78.60	0.00	0.00	0.00
20800	90.00	179.43	100	10475.3	246.69	264.04	1806.37	1825.57	81.68	0.00	0.00	0.00
20900	90.00	179.43	100	10475.3	146.69	164.04	1807.37	1814.80	84.81	0.00	0.00	0.00
21000	90.00	179.43	100	10475.3	46.69	64.05	1808.36	1809.50	87.97	0.00	0.00	0.00
21100	90.00	179.43	100	10475.3	-53.31	-35.95	1809.36	1809.72	91.14	0.00	0.00	0.00
21200	90.00	179.43	100	10475.3	-153.31	-135.94	1810.35	1815.45	94.29	0.00	0.00	0.00
21215	90.00	179.43	15	10475.3	-168.61	-151.24	1810.51	1816.81	94.78	0.00	0.00	0.00