

Minimum Radius of Curvature

API: 30-025-52327 **Well:** Gong Worthy State Com 601H **Wellhead Location N+/S- :** 32.637935
Operator: Marathon Oil **Area:** Delaware **E+/W- :** -103.491881
Rig: **Type:** U Lateral **Magnetic Declination:** 6.16
TD: 22,672' **Plane of Proposal:** 179.76

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			
1893	0.00	0.00	1893	1893.0	33.07	0.00	0.00	0.00	#DIV/0!	0.00		
3315	0.00	0.00	1422	3315.0	33.07	0.00	0.00	0.00	#DIV/0!	0.00		
3400	1.70	332.83	85	3400.0	31.95	1.12	-0.58	1.26	332.83	2.00	2.00	391.56
3500	3.70	332.83	100	3499.9	27.75	5.31	-2.73	5.97	332.83	2.00	2.00	0.00
3600	5.70	332.83	100	3599.5	20.44	12.60	-6.47	14.16	332.83	2.00	2.00	0.00
3655	6.80	332.83	55	3654.0	15.12	17.91	-9.19	20.13	332.83	2.01	2.01	0.00
3665	7.00	332.83	10	3664.0	14.05	18.98	-9.74	21.34	332.83	1.99	1.99	0.00
3700	7.00	332.83	35	3698.9	10.23	22.79	-11.70	25.62	332.83	0.00	0.00	0.00
3800	7.00	332.83	100	3798.1	-0.64	33.64	-17.26	37.81	332.83	0.00	0.00	0.00
3900	7.00	332.83	100	3897.4	-11.50	44.48	-22.83	50.00	332.83	0.00	0.00	0.00
4000	7.00	332.83	100	3996.6	-22.37	55.32	-28.39	62.18	332.83	0.00	0.00	0.00
4091	7.00	332.83	91	4087.0	-32.26	65.19	-33.46	73.28	332.83	0.00	0.00	0.00
4100	7.00	332.83	9	4095.9	-33.23	66.16	-33.96	74.37	332.83	0.00	0.00	0.00
4200	7.00	332.83	100	4195.1	-44.10	77.01	-39.52	86.56	332.83	0.00	0.00	0.00
4300	7.00	332.83	100	4294.4	-54.96	87.85	-45.09	98.74	332.83	0.00	0.00	0.00
4400	7.00	332.83	100	4393.7	-65.83	98.69	-50.65	110.93	332.83	0.00	0.00	0.00
4500	7.00	332.83	100	4492.9	-76.70	109.53	-56.22	123.12	332.83	0.00	0.00	0.00
4600	7.00	332.83	100	4592.2	-87.56	120.37	-61.78	135.30	332.83	0.00	0.00	0.00
4700	7.00	332.83	100	4691.4	-98.43	131.22	-67.35	147.49	332.83	0.00	0.00	0.00
4779	7.00	332.83	79	4770.0	-107.03	139.80	-71.75	157.14	332.83	0.00	0.00	0.00
4800	7.00	332.83	21	4790.7	-109.29	142.06	-72.91	159.68	332.83	0.00	0.00	0.00
4900	7.00	332.83	100	4889.9	-120.16	152.90	-78.48	171.86	332.83	0.00	0.00	0.00
5000	7.00	332.83	100	4989.2	-131.02	163.74	-84.04	184.05	332.83	0.00	0.00	0.00
5022	7.00	332.83	22	5011.0	-133.41	166.13	-85.27	186.73	332.83	0.00	0.00	0.00
5100	7.00	332.83	78	5088.4	-141.89	174.58	-89.61	196.24	332.83	0.00	0.00	0.00
5200	7.00	332.83	100	5187.7	-152.75	185.43	-95.17	208.43	332.83	0.00	0.00	0.00
5300	7.00	332.83	100	5286.9	-163.62	196.27	-100.74	220.61	332.83	0.00	0.00	0.00
5400	7.00	332.83	100	5386.2	-174.48	207.11	-106.30	232.80	332.83	0.00	0.00	0.00
5474	7.00	332.83	74	5460.0	-182.56	215.17	-110.44	241.86	332.83	0.00	0.00	0.00
5500	7.00	332.83	26	5485.5	-185.35	217.95	-111.87	244.99	332.83	0.00	0.00	0.00
5600	7.00	332.83	100	5584.7	-196.21	228.80	-117.43	257.17	332.83	0.00	0.00	0.00
5700	7.00	332.83	100	5684.0	-207.08	239.64	-123.00	269.36	332.83	0.00	0.00	0.00
5800	7.00	332.83	100	5783.2	-217.95	250.48	-128.56	281.55	332.83	0.00	0.00	0.00
5872	7.00	332.83	72	5855.0	-225.80	258.32	-132.59	290.36	332.83	0.00	0.00	0.00
5900	7.00	332.83	28	5882.5	-228.81	261.32	-134.13	293.73	332.83	0.00	0.00	0.00
6000	7.00	332.83	100	5981.7	-239.68	272.16	-139.69	305.92	332.83	0.00	0.00	0.00
6100	7.00	332.83	100	6081.0	-250.54	283.01	-145.26	318.11	332.83	0.00	0.00	0.00
6200	7.00	332.83	100	6180.2	-261.41	293.85	-150.82	330.30	332.83	0.00	0.00	0.00
6300	7.00	332.83	100	6279.5	-272.27	304.69	-156.39	342.48	332.83	0.00	0.00	0.00
6400	7.00	332.83	100	6378.7	-283.14	315.53	-161.95	354.67	332.83	0.00	0.00	0.00
6500	7.00	332.83	100	6478.0	-294.00	326.38	-167.52	366.86	332.83	0.00	0.00	0.00
6600	7.00	332.83	100	6577.3	-304.87	337.22	-173.08	379.04	332.83	0.00	0.00	0.00
6700	7.00	332.83	100	6676.5	-315.73	348.06	-178.65	391.23	332.83	0.00	0.00	0.00
6779	7.00	332.83	79	6755.0	-324.32	356.63	-183.05	400.86	332.83	0.00	0.00	0.00
6800	7.00	332.83	21	6775.8	-326.60	358.90	-184.21	403.42	332.83	0.00	0.00	0.00
6900	7.00	332.83	100	6875.0	-337.46	369.74	-189.78	415.60	332.83	0.00	0.00	0.00
7000	7.00	332.83	100	6974.3	-348.33	380.59	-195.34	427.79	332.83	0.00	0.00	0.00
7100	7.00	332.83	100	7073.5	-359.20	391.43	-200.91	439.98	332.83	0.00	0.00	0.00
7200	7.00	332.83	100	7172.8	-370.06	402.27	-206.47	452.16	332.83	0.00	0.00	0.00
7300	7.00	332.83	100	7272.0	-380.93	413.11	-212.04	464.35	332.83	0.00	0.00	0.00
7400	7.00	332.83	100	7371.3	-391.79	423.95	-217.60	476.54	332.83	0.00	0.00	0.00
7500	7.00	332.83	100	7470.5	-402.66	434.80	-223.17	488.73	332.83	0.00	0.00	0.00
7600	7.00	332.83	100	7569.8	-413.52	445.64	-228.73	500.91	332.83	0.00	0.00	0.00
7700	7.00	332.83	100	7669.1	-424.39	456.48	-234.30	513.10	332.83	0.00	0.00	0.00
7800	7.00	332.83	100	7768.3	-435.25	467.32	-239.86	525.29	332.83	0.00	0.00	0.00
7900	7.00	332.83	100	7867.6	-446.12	478.17	-245.43	537.47	332.83	0.00	0.00	0.00
8000	7.00	332.83	100	7966.8	-456.98	489.01	-250.99	549.66	332.83	0.00	0.00	0.00

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
8100	7.00	332.83	100	8066.1	-467.85	499.85	-256.56	561.85	332.83	0.00	0.00	0.00
8200	7.00	332.83	100	8165.3	-478.71	510.69	-262.12	574.03	332.83	0.00	0.00	0.00
8300	7.00	332.83	100	8264.6	-489.58	521.53	-267.69	586.22	332.83	0.00	0.00	0.00
8355	7.00	332.83	55	8319.0	-495.53	527.48	-270.74	592.90	332.83	0.00	0.00	0.00
8400	7.00	332.83	45	8363.8	-500.45	532.38	-273.25	598.41	332.83	0.00	0.00	0.00
8484	7.00	332.83	84	8447.0	-509.55	541.46	-277.91	608.62	332.83	0.00	0.00	0.00
8500	7.00	332.83	16	8463.1	-511.31	543.22	-278.82	610.59	332.83	0.00	0.00	0.00
8600	7.00	332.83	100	8562.3	-522.18	554.06	-284.38	622.78	332.83	0.00	0.00	0.00
8700	7.00	332.83	100	8661.6	-533.04	564.90	-289.95	634.97	332.83	0.00	0.00	0.00
8800	7.00	332.83	100	8760.9	-543.91	575.75	-295.51	647.16	332.83	0.00	0.00	0.00
8900	7.00	332.83	100	8860.1	-554.77	586.59	-301.08	659.34	332.83	0.00	0.00	0.00
9000	7.00	332.83	100	8959.4	-565.64	597.43	-306.64	671.53	332.83	0.00	0.00	0.00
9100	7.00	332.83	100	9058.6	-576.50	608.27	-312.21	683.72	332.83	0.00	0.00	0.00
9200	7.00	332.83	100	9157.9	-587.37	619.11	-317.77	695.90	332.83	0.00	0.00	0.00
9300	7.00	332.83	100	9257.1	-598.23	629.96	-323.34	708.09	332.83	0.00	0.00	0.00
9400	7.00	332.83	100	9356.4	-609.10	640.80	-328.90	720.28	332.83	0.00	0.00	0.00
9500	7.00	332.83	100	9455.6	-619.96	651.64	-334.47	732.46	332.83	0.00	0.00	0.00
9600	7.00	332.83	100	9554.9	-630.83	662.48	-340.03	744.65	332.83	0.00	0.00	0.00
9661	7.00	332.83	61	9615.0	-637.41	669.04	-343.40	752.03	332.83	0.00	0.00	0.00
9700	7.00	332.83	39	9654.1	-641.70	673.32	-345.60	756.84	332.83	0.00	0.00	0.00
9800	7.00	332.83	100	9753.4	-652.56	684.17	-351.16	769.02	332.83	0.00	0.00	0.00
9900	7.00	332.83	100	9852.7	-663.43	695.01	-356.73	781.21	332.83	0.00	0.00	0.00
9992	7.00	332.83	92	9944.0	-673.42	704.98	-361.85	792.42	332.83	0.00	0.00	0.00
10000	7.00	332.83	8	9951.9	-674.29	705.85	-362.29	793.40	332.83	0.00	0.00	0.00
10093	7.00	332.83	93	10044.4	-684.42	715.95	-367.48	804.75	332.83	0.00	0.00	0.00
10100	6.80	332.43	7	10051.2	-685.15	716.68	-367.85	805.57	332.83	3.02	-2.93	-5.87
10169	4.81	326.45	69	10120.0	-691.21	722.73	-371.35	812.55	332.81	3.00	-2.88	-8.65
10200	3.95	321.87	31	10150.7	-693.13	724.64	-372.72	814.88	332.78	3.01	-2.79	-14.85
10300	1.74	276.40	100	10250.6	-696.02	727.52	-376.36	819.10	332.65	3.00	-2.21	-45.47
10400	2.91	200.57	100	10350.5	-693.82	725.31	-378.76	818.25	332.43	3.00	1.17	-75.83
10500	5.64	183.11	100	10450.3	-686.54	718.03	-379.92	812.34	332.12	2.99	2.73	-17.46
10547	7.00	179.76	47	10496.8	-681.39	712.87	-380.03	807.84	331.94	3.01	2.90	-7.15
10600	12.31	179.76	53	10549.2	-672.48	703.96	-379.99	799.98	331.64	9.99	9.99	0.00
10648	17.15	179.76	48	10596.0	-660.18	691.67	-379.94	789.15	331.22	10.01	10.01	0.00
10700	22.31	179.76	52	10644.5	-642.76	674.25	-379.87	773.89	330.60	9.99	9.99	0.00
10800	32.31	179.76	100	10733.3	-596.94	628.42	-379.68	734.21	328.86	10.00	10.00	0.00
10835	35.78	179.76	35	10762.0	-577.56	609.04	-379.60	717.65	328.07	10.02	10.02	0.00
10900	42.31	179.76	65	10812.7	-536.40	567.88	-379.42	682.97	326.25	9.99	9.99	0.00
11000	52.31	179.76	100	10880.4	-462.99	494.47	-379.12	623.08	322.52	10.00	10.00	0.00
11100	62.31	179.76	100	10934.4	-378.93	410.42	-378.76	558.49	317.30	10.00	10.00	0.00
11200	72.31	179.76	100	10972.9	-286.79	318.28	-378.38	494.44	310.07	10.00	10.00	0.00
11221	74.44	179.76	21	10979.0	-266.42	297.91	-378.29	481.51	308.22	10.02	10.02	0.00
11300	82.31	179.76	79	10994.8	-189.35	220.84	-377.97	437.76	300.30	9.99	9.99	0.00
11377	90.00	179.76	77	11000.0	-112.72	144.22	-377.65	404.25	290.90	10.01	10.01	0.00
11400	90.00	179.76	23	11000.0	-89.58	121.08	-377.55	396.49	287.78	0.00	0.00	0.00
11500	90.00	179.76	100	11000.0	10.42	21.08	-377.13	377.72	273.20	0.00	0.00	0.00
11600	90.00	179.76	100	11000.0	110.42	-78.92	-376.71	384.89	258.17	0.00	0.00	0.00
11700	90.00	179.76	100	11000.0	210.42	-178.92	-376.30	416.67	244.57	0.00	0.00	0.00
11800	90.00	179.76	100	11000.0	310.42	-278.92	-375.88	468.06	233.42	0.00	0.00	0.00
11900	90.00	179.76	100	11000.0	410.42	-378.92	-375.46	533.43	224.74	0.00	0.00	0.00
12000	90.00	179.76	100	11000.0	510.42	-478.92	-375.04	608.29	218.06	0.00	0.00	0.00
12100	90.00	179.76	100	11000.0	610.42	-578.92	-374.62	689.56	212.91	0.00	0.00	0.00
12200	90.00	179.76	100	11000.0	710.42	-678.92	-374.20	775.21	208.86	0.00	0.00	0.00
12300	90.00	179.76	100	11000.0	810.42	-778.92	-373.78	863.96	205.64	0.00	0.00	0.00
12400	90.00	179.76	100	11000.0	910.42	-878.92	-373.36	954.93	203.02	0.00	0.00	0.00
12500	90.00	179.76	100	11000.0	1010.42	-978.91	-372.94	1047.55	200.86	0.00	0.00	0.00
12600	90.00	179.76	100	11000.0	1110.42	-1078.91	-372.53	1141.42	199.05	0.00	0.00	0.00
12700	90.00	179.76	100	11000.0	1210.42	-1178.91	-372.11	1236.24	197.52	0.00	0.00	0.00

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12800	90.00	179.76	100	11000.0	1310.42	-1278.91	-371.69	1331.83	196.21	0.00	0.00	0.00
12900	90.00	179.76	100	11000.0	1410.42	-1378.91	-371.27	1428.02	195.07	0.00	0.00	0.00
13000	90.00	179.76	100	11000.0	1510.42	-1478.91	-370.85	1524.70	194.08	0.00	0.00	0.00
13100	90.00	179.76	100	11000.0	1610.42	-1578.91	-370.43	1621.78	193.20	0.00	0.00	0.00
13200	90.00	179.76	100	11000.0	1710.42	-1678.91	-370.01	1719.20	192.43	0.00	0.00	0.00
13300	90.00	179.76	100	11000.0	1810.42	-1778.91	-369.59	1816.90	191.74	0.00	0.00	0.00
13400	90.00	179.76	100	11000.0	1910.42	-1878.91	-369.17	1914.83	191.12	0.00	0.00	0.00
13500	90.00	179.76	100	11000.0	2010.42	-1978.91	-368.76	2012.97	190.56	0.00	0.00	0.00
13600	90.00	179.76	100	11000.0	2110.42	-2078.91	-368.34	2111.28	190.05	0.00	0.00	0.00
13700	90.00	179.76	100	11000.0	2210.42	-2178.90	-367.92	2209.75	189.58	0.00	0.00	0.00
13800	90.00	179.76	100	11000.0	2310.42	-2278.90	-367.50	2308.34	189.16	0.00	0.00	0.00
13900	90.00	179.76	100	11000.0	2410.42	-2378.90	-367.08	2407.06	188.77	0.00	0.00	0.00
14000	90.00	179.76	100	11000.0	2510.42	-2478.90	-366.66	2505.87	188.41	0.00	0.00	0.00
14100	90.00	179.76	100	11000.0	2610.42	-2578.90	-366.24	2604.78	188.08	0.00	0.00	0.00
14200	90.00	179.76	100	11000.0	2710.42	-2678.90	-365.82	2703.76	187.78	0.00	0.00	0.00
14300	90.00	179.76	100	11000.0	2810.42	-2778.90	-365.40	2802.82	187.49	0.00	0.00	0.00
14400	90.00	179.76	100	11000.0	2910.42	-2878.90	-364.99	2901.94	187.23	0.00	0.00	0.00
14500	90.00	179.76	100	11000.0	3010.42	-2978.90	-364.57	3001.12	186.98	0.00	0.00	0.00
14600	90.00	179.76	100	11000.0	3110.42	-3078.90	-364.15	3100.36	186.75	0.00	0.00	0.00
14700	90.00	179.76	100	11000.0	3210.42	-3178.90	-363.73	3199.64	186.53	0.00	0.00	0.00
14800	90.00	179.76	100	11000.0	3310.42	-3278.89	-363.31	3298.96	186.32	0.00	0.00	0.00
14900	90.00	179.76	100	11000.0	3410.42	-3378.89	-362.89	3398.33	186.13	0.00	0.00	0.00
15000	90.00	179.76	100	11000.0	3510.42	-3478.89	-362.47	3497.73	185.95	0.00	0.00	0.00
15100	90.00	179.76	100	11000.0	3610.42	-3578.89	-362.05	3597.16	185.78	0.00	0.00	0.00
15200	90.00	179.76	100	11000.0	3710.42	-3678.89	-361.63	3696.62	185.61	0.00	0.00	0.00
15300	90.00	179.76	100	11000.0	3810.42	-3778.89	-361.22	3796.11	185.46	0.00	0.00	0.00
15400	90.00	179.76	100	11000.0	3910.42	-3878.89	-360.80	3895.63	185.31	0.00	0.00	0.00
15500	90.00	179.76	100	11000.0	4010.42	-3978.89	-360.38	3995.18	185.18	0.00	0.00	0.00
15523	90.00	179.76	23	11000.0	4033.55	-4002.02	-360.28	4018.20	185.14	0.00	0.00	0.00
15600	90.00	184.36	77	11000.0	4110.33	-4078.82	-363.04	4094.94	185.09	5.98	0.00	5.98
15700	90.00	190.35	100	11000.0	4209.41	-4177.95	-375.84	4194.82	185.14	5.99	0.00	5.99
15800	90.00	196.33	100	11000.0	4306.57	-4275.21	-398.90	4293.78	185.33	5.98	0.00	5.98
15900	90.00	202.32	100	11000.0	4400.75	-4369.53	-431.98	4390.83	185.65	5.99	0.00	5.99
16000	90.00	208.30	100	11000.0	4490.93	-4459.89	-474.71	4485.08	186.08	5.98	0.00	5.98
16100	90.00	214.29	100	11000.0	4576.13	-4545.30	-526.63	4575.71	186.61	5.99	0.00	5.99
16200	90.00	220.27	100	11000.0	4655.41	-4624.83	-587.18	4661.96	187.24	5.98	0.00	5.98
16300	90.00	226.26	100	11000.0	4727.90	-4697.62	-655.68	4743.16	187.95	5.99	0.00	5.99
16400	90.00	232.24	100	11000.0	4792.83	-4762.87	-731.40	4818.70	188.73	5.98	0.00	5.98
16500	90.00	238.23	100	11000.0	4849.48	-4819.86	-813.52	4888.03	189.58	5.99	0.00	5.99
16600	90.00	244.21	100	11000.0	4897.24	-4867.98	-901.12	4950.69	190.49	5.98	0.00	5.98
16700	90.00	250.20	100	11000.0	4935.58	-4906.71	-993.27	5006.24	191.44	5.99	0.00	5.99
16800	90.00	256.18	100	11000.0	4964.08	-4935.62	-1088.96	5054.32	192.44	5.98	0.00	5.98
16900	90.00	262.17	100	11000.0	4982.44	-4954.39	-1187.13	5094.63	193.47	5.99	0.00	5.99
17000	90.00	268.16	100	11000.0	4990.45	-4962.81	-1286.73	5126.91	194.54	5.99	0.00	5.99
17100	90.00	274.14	100	11000.0	4988.03	-4960.81	-1386.66	5150.97	195.62	5.98	0.00	5.98
17200	90.00	280.13	100	11000.0	4975.20	-4948.39	-1485.84	5166.66	196.71	5.99	0.00	5.99
17300	90.00	286.11	100	11000.0	4952.10	-4925.70	-1583.19	5173.88	197.82	5.98	0.00	5.98
17400	90.00	292.10	100	11000.0	4918.99	-4892.99	-1677.64	5172.60	198.93	5.99	0.00	5.99
17500	90.00	298.08	100	11000.0	4876.23	-4850.60	-1768.16	5162.82	200.03	5.98	0.00	5.98
17600	90.00	304.07	100	11000.0	4824.28	-4799.01	-1853.77	5144.61	201.12	5.99	0.00	5.99
17700	90.00	310.05	100	11000.0	4763.70	-4738.77	-1933.54	5118.06	202.20	5.98	0.00	5.98
17800	90.00	316.04	100	11000.0	4695.17	-4670.55	-2006.59	5083.35	203.25	5.99	0.00	5.99
17900	90.00	322.02	100	11000.0	4619.43	-4595.08	-2072.12	5040.68	204.27	5.98	0.00	5.98
18000	90.00	328.01	100	11000.0	4537.30	-4513.18	-2129.43	4990.32	205.26	5.99	0.00	5.99
18100	90.00	333.99	100	11000.0	4449.67	-4425.76	-2177.89	4932.60	206.20	5.98	0.00	5.98
18200	90.00	339.98	100	11000.0	4357.51	-4333.76	-2216.97	4867.90	207.09	5.99	0.00	5.99
18300	90.00	345.96	100	11000.0	4261.82	-4238.19	-2246.24	4796.65	207.92	5.98	0.00	5.98
18400	90.00	351.95	100	11000.0	4163.63	-4140.09	-2265.39	4719.36	208.69	5.99	0.00	5.99

Minimum Radius of Curvature

API: 30-025-52327 **Well:** Gong Worthy State Com 601H **Wellhead Location N+/S- :** 32.637935
Operator: Marathon Oil **Area:** Delaware **E+/W- :** -103.491881
Rig: **Type:** U Lateral **Magnetic Declination:** 6.16
TD: 22,672' **Plane of Proposal:** 179.76

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			
18500	90.00	357.93	100	11000.0	4064.03	-4040.52	-2274.21	4636.58	209.37	5.98	0.00	5.98
18525	90.00	359.42	25	11000.0	4039.22	-4015.71	-2274.78	4615.25	209.53	6.00	0.00	6.00
18600	90.00	359.42	75	11000.0	3964.04	-3940.53	-2275.54	4550.38	210.01	0.00	0.00	0.00
18700	90.00	359.42	100	11000.0	3864.04	-3840.54	-2276.56	4464.58	210.66	0.00	0.00	0.00
18800	90.00	359.42	100	11000.0	3764.04	-3740.55	-2277.57	4379.38	211.34	0.00	0.00	0.00
18900	90.00	359.42	100	11000.0	3664.04	-3640.55	-2278.58	4294.83	212.04	0.00	0.00	0.00
19000	90.00	359.42	100	11000.0	3564.05	-3540.56	-2279.59	4210.95	212.78	0.00	0.00	0.00
19100	90.00	359.42	100	11000.0	3464.05	-3440.56	-2280.61	4127.79	213.54	0.00	0.00	0.00
19200	90.00	359.42	100	11000.0	3364.05	-3340.57	-2281.62	4045.39	214.33	0.00	0.00	0.00
19300	90.00	359.42	100	11000.0	3264.05	-3240.57	-2282.63	3963.80	215.16	0.00	0.00	0.00
19400	90.00	359.42	100	11000.0	3164.05	-3140.58	-2283.64	3883.07	216.02	0.00	0.00	0.00
19500	90.00	359.42	100	11000.0	3064.06	-3040.58	-2284.66	3803.26	216.92	0.00	0.00	0.00
19600	90.00	359.42	100	11000.0	2964.06	-2940.59	-2285.67	3724.42	217.86	0.00	0.00	0.00
19700	90.00	359.42	100	11000.0	2864.06	-2840.59	-2286.68	3646.62	218.83	0.00	0.00	0.00
19800	90.00	359.42	100	11000.0	2764.06	-2740.60	-2287.69	3569.93	219.85	0.00	0.00	0.00
19900	90.00	359.42	100	11000.0	2664.06	-2640.60	-2288.70	3494.42	220.92	0.00	0.00	0.00
20000	90.00	359.42	100	11000.0	2564.06	-2540.61	-2289.72	3420.16	222.03	0.00	0.00	0.00
20100	90.00	359.42	100	11000.0	2464.07	-2440.61	-2290.73	3347.24	223.19	0.00	0.00	0.00
20200	90.00	359.42	100	11000.0	2364.07	-2340.62	-2291.74	3275.75	224.40	0.00	0.00	0.00
20300	90.00	359.42	100	11000.0	2264.07	-2240.62	-2292.75	3205.79	225.66	0.00	0.00	0.00
20400	90.00	359.42	100	11000.0	2164.07	-2140.63	-2293.77	3137.46	226.98	0.00	0.00	0.00
20500	90.00	359.42	100	11000.0	2064.07	-2040.63	-2294.78	3070.86	228.35	0.00	0.00	0.00
20600	90.00	359.42	100	11000.0	1964.07	-1940.64	-2295.79	3006.11	229.79	0.00	0.00	0.00
20700	90.00	359.42	100	11000.0	1864.08	-1840.64	-2296.80	2943.34	231.29	0.00	0.00	0.00
20800	90.00	359.42	100	11000.0	1764.08	-1740.65	-2297.81	2882.67	232.86	0.00	0.00	0.00
20900	90.00	359.42	100	11000.0	1664.08	-1640.65	-2298.83	2824.24	234.48	0.00	0.00	0.00
21000	90.00	359.42	100	11000.0	1564.08	-1540.66	-2299.84	2768.19	236.18	0.00	0.00	0.00
21100	90.00	359.42	100	11000.0	1464.08	-1440.66	-2300.85	2714.67	237.95	0.00	0.00	0.00
21200	90.00	359.42	100	11000.0	1364.09	-1340.67	-2301.86	2663.83	239.78	0.00	0.00	0.00
21300	90.00	359.42	100	11000.0	1264.09	-1240.67	-2302.88	2615.82	241.69	0.00	0.00	0.00
21400	90.00	359.42	100	11000.0	1164.09	-1140.68	-2303.89	2570.81	243.66	0.00	0.00	0.00
21500	90.00	359.42	100	11000.0	1064.09	-1040.68	-2304.90	2528.95	245.70	0.00	0.00	0.00
21600	90.00	359.42	100	11000.0	964.09	-940.69	-2305.91	2490.41	247.81	0.00	0.00	0.00
21700	90.00	359.42	100	11000.0	864.09	-840.69	-2306.93	2455.33	249.98	0.00	0.00	0.00
21800	90.00	359.42	100	11000.0	764.10	-740.70	-2307.94	2423.88	252.21	0.00	0.00	0.00
21900	90.00	359.42	100	11000.0	664.10	-640.70	-2308.95	2396.19	254.49	0.00	0.00	0.00
22000	90.00	359.42	100	11000.0	564.10	-540.71	-2309.96	2372.40	256.83	0.00	0.00	0.00
22100	90.00	359.42	100	11000.0	464.10	-440.71	-2310.97	2352.62	259.20	0.00	0.00	0.00
22200	90.00	359.42	100	11000.0	364.10	-340.72	-2311.99	2336.96	261.62	0.00	0.00	0.00
22300	90.00	359.42	100	11000.0	264.10	-240.72	-2313.00	2325.49	264.06	0.00	0.00	0.00
22400	90.00	359.42	100	11000.0	164.11	-140.73	-2314.01	2318.29	266.52	0.00	0.00	0.00
22500	90.00	359.42	100	11000.0	64.11	-40.73	-2315.02	2315.38	268.99	0.00	0.00	0.00
22600	90.00	359.42	100	11000.0	-35.89	59.26	-2316.04	2316.79	271.47	0.00	0.00	0.00
22672	90.00	359.42	72	11000.0	-107.55	130.92	-2316.76	2320.46	273.23	0.00	0.00	0.00