

# Minimum Radius of Curvature

API: 30-015-53276      Well: Vanadium 32 State 004H      Wellhead Location N+/S- : 32.269759  
 Operator: Occidental      Area: New Mexico      E+/W- : -103.797400  
 Rig:      Type: U-Lateral      Magnetic Declination: 6.78  
 TD: 22,071'      Plane of Proposal: 179.69

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	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
200	0.00	0.00	100	200.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
300	0.00	0.00	100	300.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
400	0.00	0.00	100	400.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
500	0.00	0.00	100	500.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
600	0.00	0.00	100	600.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
700	0.00	0.00	100	700.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
800	0.00	0.00	100	800.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
900	0.00	0.00	100	900.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
1000	0.00	0.00	100	1000.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
1100	0.00	0.00	100	1100.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
1200	0.00	0.00	100	1200.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
1300	0.00	0.00	100	1300.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
1400	0.00	0.00	100	1400.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
1500	0.00	0.00	100	1500.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
1600	0.00	0.00	100	1600.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
1700	0.00	0.00	100	1700.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
1800	0.00	0.00	100	1800.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
1900	0.00	0.00	100	1900.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
2000	0.00	0.00	100	2000.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
2100	0.00	0.00	100	2100.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
2200	0.00	0.00	100	2200.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
2300	0.00	0.00	100	2300.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
2400	0.00	0.00	100	2400.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
2500	0.00	0.00	100	2500.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
2600	0.00	0.00	100	2600.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
2700	0.00	0.00	100	2700.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
2800	0.00	0.00	100	2800.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
2900	0.00	0.00	100	2900.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
3000	0.00	0.00	100	3000.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
3100	0.00	0.00	100	3100.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
3200	0.00	0.00	100	3200.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
3300	0.00	0.00	100	3300.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
3400	0.00	0.00	100	3400.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
3500	0.00	0.00	100	3500.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
3600	0.00	0.00	100	3600.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
3700	0.00	0.00	100	3700.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
3800	0.00	0.00	100	3800.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
3900	0.00	0.00	100	3900.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
4000	0.00	0.00	100	4000.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
4100	0.00	0.00	100	4100.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
4200	0.00	0.00	100	4200.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
4300	0.00	0.00	100	4300.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
4400	0.00	0.00	100	4400.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
4500	0.00	0.00	100	4500.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
4600	0.00	0.00	100	4600.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
4700	0.00	0.00	100	4700.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
4800	0.00	0.00	100	4800.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
4900	0.00	0.00	100	4900.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
5000	0.00	0.00	100	5000.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
5100	0.00	0.00	100	5100.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
5200	0.00	0.00	100	5200.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
5300	0.00	0.00	100	5300.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
5400	0.00	0.00	100	5400.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
5500	0.00	0.00	100	5500.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
5600	0.00	0.00	100	5600.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
5700	0.00	0.00	100	5700.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5800	0.00	0.00	100	5800.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
5900	0.00	0.00	100	5900.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
6000	0.00	0.00	100	6000.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
6100	0.00	0.00	100	6100.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
6200	0.00	0.00	100	6200.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
6300	0.00	0.00	100	6300.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
6400	0.00	0.00	100	6400.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
6500	0.00	0.00	100	6500.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
6600	0.00	0.00	100	6600.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
6700	0.00	0.00	100	6700.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
6800	0.00	0.00	100	6800.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
6900	0.00	0.00	100	6900.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
7000	0.00	0.00	100	7000.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
7100	0.00	0.00	100	7100.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
7200	0.00	0.00	100	7200.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
7300	0.00	0.00	100	7300.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
7400	0.00	0.00	100	7400.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
7500	0.00	0.00	100	7500.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
7600	0.00	0.00	100	7600.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
7700	0.00	0.00	100	7700.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
7800	0.00	0.00	100	7800.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
7900	0.00	0.00	100	7900.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
8000	0.00	0.00	100	8000.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
8100	0.00	0.00	100	8100.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
8200	0.00	0.00	100	8200.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
8207	0.00	0.00	7	8207.0	32.83	0.00	0.00	0.00	#DIV/0!	0.00		
8300	0.93	184.77	93	8300.0	33.58	-0.75	-0.06	0.75	184.77	1.00	1.00	198.68
8400	1.93	184.77	100	8400.0	36.07	-3.24	-0.27	3.25	184.77	1.00	1.00	0.00
8500	2.93	184.77	100	8499.9	40.29	-7.46	-0.62	7.49	184.77	1.00	1.00	0.00
8600	3.93	184.77	100	8599.7	46.25	-13.43	-1.12	13.47	184.77	1.00	1.00	0.00
8700	4.93	184.77	100	8699.4	53.94	-21.12	-1.76	21.20	184.77	1.00	1.00	0.00
8800	5.93	184.77	100	8798.9	63.37	-30.55	-2.55	30.66	184.77	1.00	1.00	0.00
8900	6.93	184.77	100	8898.3	74.53	-41.71	-3.48	41.86	184.77	1.00	1.00	0.00
9000	7.93	184.77	100	8997.5	87.41	-54.60	-4.56	54.79	184.77	1.00	1.00	0.00
9100	8.93	184.77	100	9096.4	102.01	-69.21	-5.78	69.45	184.77	1.00	1.00	0.00
9200	9.93	184.77	100	9195.0	118.33	-85.54	-7.14	85.83	184.77	1.00	1.00	0.00
9207	10.00	184.77	7	9201.9	119.53	-86.74	-7.24	87.05	184.77	1.00	1.00	0.00
9300	10.00	184.77	93	9293.5	135.62	-102.84	-8.58	103.19	184.77	0.00	0.00	0.00
9400	10.00	184.77	100	9392.0	152.92	-120.14	-10.03	120.56	184.77	0.00	0.00	0.00
9500	10.00	184.77	100	9490.5	170.21	-137.45	-11.47	137.92	184.77	0.00	0.00	0.00
9600	10.00	184.77	100	9589.0	187.51	-154.75	-12.91	155.29	184.77	0.00	0.00	0.00
9607	10.00	184.77	7	9595.9	188.72	-155.96	-13.01	156.50	184.77	0.00	0.00	0.00
9700	19.28	182.25	93	9685.7	212.15	-179.40	-14.29	179.97	184.55	10.00	9.98	-2.71
9800	29.27	181.28	100	9776.8	253.19	-220.44	-15.49	220.99	184.02	10.00	9.99	-0.97
9900	39.27	180.78	100	9859.3	309.41	-276.67	-16.47	277.16	183.41	10.00	10.00	-0.50
10000	49.27	180.45	100	9930.8	379.12	-346.38	-17.20	346.81	182.84	10.00	10.00	-0.33
10100	59.26	180.22	100	9989.2	460.18	-427.45	-17.66	427.82	182.37	9.99	9.99	-0.23
10200	69.26	180.02	100	10032.5	550.14	-517.41	-17.84	517.72	181.98	10.00	10.00	-0.20
10300	79.26	179.86	100	10059.6	646.27	-613.54	-17.74	613.80	181.66	10.00	10.00	-0.16
10400	89.26	179.70	100	10069.6	745.64	-712.91	-17.36	713.13	181.39	10.00	10.00	-0.16
10402	89.49	179.69	2	10069.6	747.94	-715.21	-17.34	715.42	181.39	10.01	10.00	-0.43
10500	89.49	179.69	98	10070.5	845.64	-812.91	-16.82	813.08	181.19	0.00	0.00	0.00
10600	89.49	179.69	100	10071.4	945.63	-912.90	-16.28	913.05	181.02	0.00	0.00	0.00
10700	89.49	179.69	100	10072.3	1045.63	-1012.90	-15.73	1013.02	180.89	0.00	0.00	0.00
10800	89.49	179.69	100	10073.2	1145.63	-1112.89	-15.19	1113.00	180.78	0.00	0.00	0.00
10900	89.49	179.69	100	10074.1	1245.62	-1212.89	-14.65	1212.98	180.69	0.00	0.00	0.00
11000	89.49	179.69	100	10075.0	1345.62	-1312.88	-14.11	1312.96	180.62	0.00	0.00	0.00
11100	89.49	179.69	100	10075.9	1445.61	-1412.88	-13.57	1412.94	180.55	0.00	0.00	0.00

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
11200	89.49	179.69	100	10076.7	1545.61	-1512.87	-13.03	1512.93	180.49	0.00	0.00	0.00
11300	89.49	179.69	100	10077.6	1645.61	-1612.87	-12.49	1612.91	180.44	0.00	0.00	0.00
11400	89.49	179.69	100	10078.5	1745.60	-1712.86	-11.95	1712.90	180.40	0.00	0.00	0.00
11500	89.49	179.69	100	10079.4	1845.60	-1812.85	-11.41	1812.89	180.36	0.00	0.00	0.00
11600	89.49	179.69	100	10080.3	1945.59	-1912.85	-10.86	1912.88	180.33	0.00	0.00	0.00
11700	89.49	179.69	100	10081.2	2045.59	-2012.84	-10.32	2012.87	180.29	0.00	0.00	0.00
11800	89.49	179.69	100	10082.1	2145.59	-2112.84	-9.78	2112.86	180.27	0.00	0.00	0.00
11900	89.49	179.69	100	10083.0	2245.58	-2212.83	-9.24	2212.85	180.24	0.00	0.00	0.00
12000	89.49	179.69	100	10083.9	2345.58	-2312.83	-8.70	2312.84	180.22	0.00	0.00	0.00
12100	89.49	179.69	100	10084.8	2445.57	-2412.82	-8.16	2412.84	180.19	0.00	0.00	0.00
12200	89.49	179.69	100	10085.6	2545.57	-2512.82	-7.62	2512.83	180.17	0.00	0.00	0.00
12300	89.49	179.69	100	10086.5	2645.57	-2612.81	-7.08	2612.82	180.16	0.00	0.00	0.00
12400	89.49	179.69	100	10087.4	2745.56	-2712.81	-6.54	2712.81	180.14	0.00	0.00	0.00
12500	89.49	179.69	100	10088.3	2845.56	-2812.80	-6.00	2812.81	180.12	0.00	0.00	0.00
12600	89.49	179.69	100	10089.2	2945.55	-2912.80	-5.45	2912.80	180.11	0.00	0.00	0.00
12700	89.49	179.69	100	10090.1	3045.55	-3012.79	-4.91	3012.79	180.09	0.00	0.00	0.00
12800	89.49	179.69	100	10091.0	3145.55	-3112.78	-4.37	3112.79	180.08	0.00	0.00	0.00
12900	89.49	179.69	100	10091.9	3245.54	-3212.78	-3.83	3212.78	180.07	0.00	0.00	0.00
13000	89.49	179.69	100	10092.8	3345.54	-3312.77	-3.29	3312.78	180.06	0.00	0.00	0.00
13100	89.49	179.69	100	10093.7	3445.53	-3412.77	-2.75	3412.77	180.05	0.00	0.00	0.00
13200	89.49	179.69	100	10094.5	3545.53	-3512.76	-2.21	3512.76	180.04	0.00	0.00	0.00
13300	89.49	179.69	100	10095.4	3645.53	-3612.76	-1.67	3612.76	180.03	0.00	0.00	0.00
13400	89.49	179.69	100	10096.3	3745.52	-3712.75	-1.13	3712.75	180.02	0.00	0.00	0.00
13500	89.49	179.69	100	10097.2	3845.52	-3812.75	-0.59	3812.75	180.01	0.00	0.00	0.00
13600	89.49	179.69	100	10098.1	3945.51	-3912.74	-0.04	3912.74	180.00	0.00	0.00	0.00
13700	89.49	179.69	100	10099.0	4045.51	-4012.74	0.50	4012.74	179.99	0.00	0.00	0.00
13800	89.49	179.69	100	10099.9	4145.51	-4112.73	1.04	4112.73	179.99	0.00	0.00	0.00
13900	89.49	179.69	100	10100.8	4245.50	-4212.72	1.58	4212.72	179.98	0.00	0.00	0.00
14000	89.49	179.69	100	10101.7	4345.50	-4312.72	2.12	4312.72	179.97	0.00	0.00	0.00
14100	89.49	179.69	100	10102.6	4445.49	-4412.71	2.66	4412.71	179.97	0.00	0.00	0.00
14200	89.49	179.69	100	10103.4	4545.49	-4512.71	3.20	4512.71	179.96	0.00	0.00	0.00
14300	89.49	179.69	100	10104.3	4645.49	-4612.70	3.74	4612.70	179.95	0.00	0.00	0.00
14377	89.49	179.69	77	10105.0	4722.78	-4690.00	4.16	4690.00	179.95	0.00	0.00	0.00
14400	89.54	181.17	23	10105.2	4745.48	-4712.70	3.99	4712.70	179.95	6.52	0.22	6.52
14500	89.77	187.66	100	10105.8	4845.09	-4812.34	-3.70	4812.35	180.04	6.49	0.23	6.49
14600	90.00	194.16	100	10106.0	4943.12	-4910.48	-22.62	4910.54	180.26	6.50	0.23	6.50
14700	90.24	200.66	100	10105.8	5038.33	-5005.85	-52.52	5006.13	180.60	6.50	0.24	6.50
14800	90.47	207.15	100	10105.2	5129.48	-5097.22	-93.02	5098.07	181.05	6.49	0.23	6.49
14900	90.69	213.65	100	10104.2	5215.40	-5183.42	-143.60	5185.41	181.59	6.50	0.22	6.50
15000	90.90	220.15	100	10102.8	5294.99	-5263.34	-203.60	5267.28	182.22	6.50	0.21	6.50
15100	91.11	226.64	100	10101.0	5367.23	-5335.96	-272.26	5342.90	182.92	6.49	0.21	6.49
15200	91.30	233.14	100	10098.9	5431.20	-5400.33	-348.68	5411.58	183.69	6.50	0.19	6.50
15300	91.47	239.64	100	10096.5	5486.05	-5455.64	-431.89	5472.71	184.53	6.50	0.17	6.50
15400	91.62	246.14	100	10093.8	5531.10	-5501.17	-520.83	5525.77	185.41	6.50	0.15	6.50
15500	91.75	252.64	100	10090.9	5565.76	-5536.34	-614.33	5570.32	186.33	6.50	0.13	6.50
15600	91.86	259.15	100	10087.7	5589.58	-5560.68	-711.22	5605.98	187.29	6.51	0.11	6.51
15700	91.95	265.65	100	10084.4	5602.26	-5573.89	-810.23	5632.47	188.27	6.50	0.09	6.50
15762	91.99	269.71	62	10082.2	5604.45	-5576.42	-872.57	5644.27	188.89	6.50	0.06	6.50
15800	91.99	269.71	38	10080.9	5604.43	-5576.61	-910.11	5650.39	189.27	0.00	0.00	0.00
15900	91.99	269.71	100	10077.5	5604.40	-5577.11	-1010.05	5667.84	190.27	0.00	0.00	0.00
16000	91.99	269.71	100	10074.0	5604.36	-5577.62	-1109.99	5686.99	191.26	0.00	0.00	0.00
16100	91.99	269.71	100	10070.5	5604.33	-5578.13	-1209.92	5707.84	192.24	0.00	0.00	0.00
16200	91.99	269.71	100	10067.0	5604.29	-5578.63	-1309.86	5730.35	193.21	0.00	0.00	0.00
16300	91.99	269.71	100	10063.6	5604.26	-5579.14	-1409.80	5754.50	194.18	0.00	0.00	0.00
16400	91.99	269.71	100	10060.1	5604.22	-5579.64	-1509.74	5780.29	195.14	0.00	0.00	0.00
16500	91.99	269.71	100	10056.6	5604.19	-5580.15	-1609.68	5807.68	196.09	0.00	0.00	0.00
16600	91.99	269.71	100	10053.1	5604.15	-5580.65	-1709.62	5836.65	197.03	0.00	0.00	0.00
16619	91.99	269.71	19	10052.5	5604.15	-5580.75	-1728.29	5842.24	197.21	0.00	0.00	0.00

# Minimum Radius of Curvature

**API: 30-015-53276**      **Well: Vanadium 32 State 004H**      **Wellhead Location N+/S- : 32.269759**  
**Operator: Occidental**      **Area: New Mexico**      **E+/W- : -103.797400**  
**Rig:**      **Type: U-Lateral**      **Magnetic Declination: 6.78**  
**TD: 22,071'**      **Plane of Proposal: 179.69**

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			
16700	92.39	274.98	81	10049.4	5600.39	-5577.43	-1809.45	5863.60	197.97	6.50	0.49	6.48
16800	92.86	281.47	100	10044.8	5585.57	-5563.14	-1908.26	5881.33	198.93	6.50	0.47	6.49
16900	93.30	287.97	100	10039.4	5559.69	-5537.79	-2004.79	5889.50	199.90	6.51	0.44	6.50
17000	93.69	294.47	100	10033.3	5523.08	-5501.68	-2097.78	5888.05	200.87	6.50	0.39	6.50
17100	94.03	300.97	100	10026.6	5476.22	-5455.30	-2186.06	5877.00	201.84	6.49	0.34	6.50
17200	94.32	307.49	100	10019.3	5419.70	-5399.22	-2268.47	5856.42	202.79	6.51	0.29	6.52
17300	94.56	314.00	100	10011.5	5354.26	-5334.19	-2343.97	5826.47	203.72	6.49	0.24	6.51
17400	94.73	320.52	100	10003.4	5280.73	-5261.02	-2411.58	5787.41	204.63	6.50	0.17	6.52
17500	94.85	327.04	100	9995.1	5200.06	-5180.68	-2470.43	5739.55	205.49	6.50	0.12	6.52
17600	94.90	333.56	100	9986.6	5113.30	-5094.17	-2519.77	5683.29	206.32	6.50	0.05	6.52
17700	94.89	340.09	100	9978.0	5021.54	-5002.63	-2558.96	5619.12	207.09	6.51	-0.01	6.53
17800	94.82	346.61	100	9969.6	4925.98	-4907.22	-2587.49	5547.60	207.80	6.50	-0.07	6.52
17900	94.69	353.13	100	9961.3	4827.83	-4809.17	-2605.01	5469.38	208.44	6.50	-0.13	6.52
18000	94.49	359.65	100	9953.3	4728.38	-4709.74	-2611.28	5385.21	209.01	6.50	-0.20	6.52
18001	94.49	359.69	1	9953.2	4727.78	-4709.14	-2611.28	5384.68	209.01	6.65	0.00	6.67
18100	94.49	359.69	99	9945.4	4628.68	-4610.05	-2611.82	5298.51	209.53	0.00	0.00	0.00
18200	94.49	359.69	100	9937.6	4528.99	-4510.36	-2612.36	5212.27	210.08	0.00	0.00	0.00
18300	94.49	359.69	100	9929.8	4429.30	-4410.67	-2612.90	5126.52	210.64	0.00	0.00	0.00
18400	94.49	359.69	100	9921.9	4329.60	-4310.98	-2613.44	5041.29	211.23	0.00	0.00	0.00
18500	94.49	359.69	100	9914.1	4229.91	-4211.28	-2613.98	4956.59	211.83	0.00	0.00	0.00
18600	94.49	359.69	100	9906.3	4130.22	-4111.59	-2614.52	4872.46	212.45	0.00	0.00	0.00
18700	94.49	359.69	100	9898.5	4030.52	-4011.90	-2615.06	4788.93	213.10	0.00	0.00	0.00
18800	94.49	359.69	100	9890.6	3930.83	-3912.21	-2615.59	4706.03	213.77	0.00	0.00	0.00
18900	94.49	359.69	100	9882.8	3831.14	-3812.52	-2616.13	4623.79	214.46	0.00	0.00	0.00
19000	94.49	359.69	100	9875.0	3731.44	-3712.83	-2616.67	4542.25	215.17	0.00	0.00	0.00
19100	94.49	359.69	100	9867.1	3631.75	-3613.13	-2617.21	4461.45	215.92	0.00	0.00	0.00
19200	94.49	359.69	100	9859.3	3532.06	-3513.44	-2617.75	4381.43	216.69	0.00	0.00	0.00
19250	94.49	359.69	50	9855.4	3482.21	-3463.60	-2618.02	4341.72	217.08	0.00	0.00	0.00
19300	93.75	359.69	50	9851.8	3432.34	-3413.73	-2618.29	4302.21	217.49	1.48	-1.48	0.00
19400	92.25	359.69	100	9846.6	3332.48	-3313.87	-2618.83	4223.74	218.32	1.50	-1.50	0.00
19500	90.75	359.69	100	9844.0	3232.52	-3213.91	-2619.37	4146.12	219.18	1.50	-1.50	0.00
19521	90.43	359.69	21	9843.7	3211.52	-3192.91	-2619.49	4129.94	219.37	1.52	-1.52	0.00
19600	90.43	359.69	79	9843.1	3132.52	-3113.91	-2619.91	4069.45	220.08	0.00	0.00	0.00
19700	90.43	359.69	100	9842.4	3032.52	-3013.92	-2620.45	3993.80	221.01	0.00	0.00	0.00
19800	90.43	359.69	100	9841.6	2932.53	-2913.92	-2621.00	3919.25	221.97	0.00	0.00	0.00
19900	90.43	359.69	100	9840.9	2832.53	-2813.92	-2621.54	3845.86	222.97	0.00	0.00	0.00
20000	90.43	359.69	100	9840.1	2732.53	-2713.93	-2622.08	3773.69	224.01	0.00	0.00	0.00
20100	90.43	359.69	100	9839.4	2632.54	-2613.93	-2622.62	3702.81	225.10	0.00	0.00	0.00
20200	90.43	359.69	100	9838.6	2532.54	-2513.94	-2623.16	3633.30	226.22	0.00	0.00	0.00
20300	90.43	359.69	100	9837.9	2432.54	-2413.94	-2623.70	3565.24	227.38	0.00	0.00	0.00
20400	90.43	359.69	100	9837.1	2332.54	-2313.95	-2624.24	3498.71	228.60	0.00	0.00	0.00
20500	90.43	359.69	100	9836.4	2232.55	-2213.95	-2624.78	3433.81	229.85	0.00	0.00	0.00
20600	90.43	359.69	100	9835.6	2132.55	-2113.95	-2625.32	3370.63	231.16	0.00	0.00	0.00
20700	90.43	359.69	100	9834.9	2032.55	-2013.96	-2625.87	3309.26	232.51	0.00	0.00	0.00
20800	90.43	359.69	100	9834.1	1932.56	-1913.96	-2626.41	3249.81	233.92	0.00	0.00	0.00
20900	90.43	359.69	100	9833.4	1832.56	-1813.97	-2626.95	3192.39	235.37	0.00	0.00	0.00
21000	90.43	359.69	100	9832.6	1732.56	-1713.97	-2627.49	3137.10	236.88	0.00	0.00	0.00
21100	90.43	359.69	100	9831.9	1632.56	-1613.98	-2628.03	3084.06	238.44	0.00	0.00	0.00
21200	90.43	359.69	100	9831.1	1532.57	-1513.98	-2628.57	3033.40	240.06	0.00	0.00	0.00
21300	90.43	359.69	100	9830.4	1432.57	-1413.98	-2629.11	2985.23	241.73	0.00	0.00	0.00
21400	90.43	359.69	100	9829.6	1332.57	-1313.99	-2629.65	2939.67	243.45	0.00	0.00	0.00
21500	90.43	359.69	100	9828.9	1232.58	-1213.99	-2630.19	2896.84	245.22	0.00	0.00	0.00
21600	90.43	359.69	100	9828.1	1132.58	-1114.00	-2630.73	2856.88	247.05	0.00	0.00	0.00
21700	90.43	359.69	100	9827.4	1032.58	-1014.00	-2631.28	2819.90	248.93	0.00	0.00	0.00
21800	90.43	359.69	100	9826.6	932.58	-914.01	-2631.82	2786.01	250.85	0.00	0.00	0.00
21900	90.43	359.69	100	9825.9	832.59	-814.01	-2632.36	2755.34	252.82	0.00	0.00	0.00
22000	90.43	359.69	100	9825.1	732.59	-714.01	-2632.90	2728.00	254.83	0.00	0.00	0.00
22071	90.43	359.69	71	9824.6	662.05	-643.48	-2633.28	2710.76	256.27	0.00	0.00	0.00