

Minimum Radius of Curvature

API: 51-23-51647 **Well: Schrute Farms 9-5HZ** **Wellhead Location N+/S- : 40.060048**
Operator: Occidental **Area: DJ** **E+/W- : -104.898393**
Rig: **Type: U-Lateral** **Magnetic Declination: 7.82**
TD: 18,795' **Plane of Proposal: 180.07**

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	39.93	0.00	0.00	0.00	#DIV/0!	0.00		
200	0.00	0.00	100	200.0	39.93	0.00	0.00	0.00	#DIV/0!	0.00		
300	0.00	0.00	100	300.0	39.93	0.00	0.00	0.00	#DIV/0!	0.00		
400	0.00	0.00	100	400.0	39.93	0.00	0.00	0.00	#DIV/0!	0.00		
500	0.00	0.00	100	500.0	39.93	0.00	0.00	0.00	#DIV/0!	0.00		
600	1.50	45.00	100	600.0	39.01	0.93	0.93	1.31	45.00	1.50	1.50	45.00
700	3.00	45.00	100	699.9	36.23	3.70	3.70	5.23	45.00	1.50	1.50	0.00
800	4.50	45.00	100	799.7	31.60	8.33	8.33	11.77	45.00	1.50	1.50	0.00
833	5.00	45.00	33	832.9	29.64	10.28	10.28	14.53	45.00	1.50	1.50	0.00
900	4.82	56.51	67	899.3	26.04	13.88	14.67	20.19	46.59	1.50	-0.27	17.26
1000	4.93	74.19	100	999.0	22.54	17.37	22.31	28.27	52.10	1.50	0.11	17.68
1100	5.47	89.71	100	1098.6	21.33	18.56	31.21	36.31	59.26	1.50	0.54	15.52
1200	6.32	101.78	100	1198.0	22.42	17.46	41.36	44.90	67.11	1.50	0.85	12.07
1300	7.38	110.70	100	1297.3	25.80	14.07	52.76	54.60	75.07	1.50	1.06	8.92
1311	7.51	111.50	11	1308.0	26.30	13.57	54.06	55.74	75.91	1.55	1.21	7.43
1400	8.58	117.27	89	1396.4	31.47	8.38	65.40	65.94	82.70	1.50	1.20	6.47
1416	8.78	118.17	16	1412.5	32.61	7.23	67.58	67.97	83.89	1.48	1.23	5.52
1500	8.78	118.17	84	1495.2	38.63	1.20	78.84	78.85	89.13	0.00	0.00	0.00
1505	8.78	118.17	5	1500.0	38.98	0.85	79.50	79.50	89.39	0.00	0.00	0.00
1600	8.78	118.17	95	1594.0	45.82	-6.00	92.30	92.49	93.72	0.00	0.00	0.00
1700	8.78	118.17	100	1692.9	53.01	-13.21	105.76	106.58	97.12	0.00	0.00	0.00
1800	8.78	118.17	100	1791.7	60.20	-20.42	119.21	120.95	99.72	0.00	0.00	0.00
1900	8.78	118.17	100	1890.5	67.39	-27.62	132.67	135.51	101.76	0.00	0.00	0.00
2000	8.78	118.17	100	1989.3	74.58	-34.83	146.12	150.22	103.41	0.00	0.00	0.00
2100	8.78	118.17	100	2088.2	81.77	-42.03	159.58	165.02	104.76	0.00	0.00	0.00
2200	8.78	118.17	100	2187.0	88.96	-49.24	173.04	179.91	105.88	0.00	0.00	0.00
2300	8.78	118.17	100	2285.8	96.15	-56.45	186.49	194.85	106.84	0.00	0.00	0.00
2400	8.78	118.17	100	2384.6	103.34	-63.65	199.95	209.84	107.66	0.00	0.00	0.00
2500	8.78	118.17	100	2483.5	110.53	-70.86	213.40	224.86	108.37	0.00	0.00	0.00
2600	8.78	118.17	100	2582.3	117.72	-78.06	226.86	239.92	108.99	0.00	0.00	0.00
2700	8.78	118.17	100	2681.1	124.91	-85.27	240.32	255.00	109.54	0.00	0.00	0.00
2741	8.78	118.17	41	2721.7	127.86	-88.23	245.84	261.19	109.74	0.00	0.00	0.00
2800	4.06	118.17	59	2780.3	130.96	-91.34	251.65	267.71	109.95	8.01	-8.01	0.00
2851	0.00	0.00	51	2831.0	131.81	-92.19	253.23	269.49	110.00	8.00		
2900	0.00	0.00	49	2880.2	131.81	-92.19	253.23	269.49	110.00	0.00		
3000	0.00	0.00	100	2980.2	131.81	-92.19	253.23	269.49	110.00	0.00		
3100	0.00	0.00	100	3080.2	131.81	-92.19	253.23	269.49	110.00	0.00		
3200	0.00	0.00	100	3180.2	131.81	-92.19	253.23	269.49	110.00	0.00		
3300	0.00	0.00	100	3280.2	131.81	-92.19	253.23	269.49	110.00	0.00		
3400	0.00	0.00	100	3380.2	131.81	-92.19	253.23	269.49	110.00	0.00		
3500	0.00	0.00	100	3480.2	131.81	-92.19	253.23	269.49	110.00	0.00		
3600	0.00	0.00	100	3580.2	131.81	-92.19	253.23	269.49	110.00	0.00		
3700	0.00	0.00	100	3680.2	131.81	-92.19	253.23	269.49	110.00	0.00		
3800	0.00	0.00	100	3780.2	131.81	-92.19	253.23	269.49	110.00	0.00		
3900	0.00	0.00	100	3880.2	131.81	-92.19	253.23	269.49	110.00	0.00		
4000	0.00	0.00	100	3980.2	131.81	-92.19	253.23	269.49	110.00	0.00		
4100	0.00	0.00	100	4080.2	131.81	-92.19	253.23	269.49	110.00	0.00		
4200	0.00	0.00	100	4180.2	131.81	-92.19	253.23	269.49	110.00	0.00		
4226	0.00	0.00	26	4206.0	131.81	-92.19	253.23	269.49	110.00	0.00		
4300	0.00	0.00	74	4280.2	131.81	-92.19	253.23	269.49	110.00	0.00		
4400	0.00	0.00	100	4380.2	131.81	-92.19	253.23	269.49	110.00	0.00		
4500	0.00	0.00	100	4480.2	131.81	-92.19	253.23	269.49	110.00	0.00		
4579	0.00	0.00	79	4559.0	131.81	-92.19	253.23	269.49	110.00	0.00		
4600	0.00	0.00	21	4580.2	131.81	-92.19	253.23	269.49	110.00	0.00		
4700	0.00	0.00	100	4680.2	131.81	-92.19	253.23	269.49	110.00	0.00		
4800	0.00	0.00	100	4780.2	131.81	-92.19	253.23	269.49	110.00	0.00		
4900	0.00	0.00	100	4880.2	131.81	-92.19	253.23	269.49	110.00	0.00		

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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			
5000	0.00	0.00	100	4980.2	131.81	-92.19	253.23	269.49	110.00	0.00		
5100	0.00	0.00	100	5080.2	131.81	-92.19	253.23	269.49	110.00	0.00		
5200	0.00	0.00	100	5180.2	131.81	-92.19	253.23	269.49	110.00	0.00		
5300	0.00	0.00	100	5280.2	131.81	-92.19	253.23	269.49	110.00	0.00		
5400	0.00	0.00	100	5380.2	131.81	-92.19	253.23	269.49	110.00	0.00		
5500	0.00	0.00	100	5480.2	131.81	-92.19	253.23	269.49	110.00	0.00		
5600	0.00	0.00	100	5580.2	131.81	-92.19	253.23	269.49	110.00	0.00		
5700	0.00	0.00	100	5680.2	131.81	-92.19	253.23	269.49	110.00	0.00		
5800	0.00	0.00	100	5780.2	131.81	-92.19	253.23	269.49	110.00	0.00		
5900	0.00	0.00	100	5880.2	131.81	-92.19	253.23	269.49	110.00	0.00		
6000	0.00	0.00	100	5980.2	131.81	-92.19	253.23	269.49	110.00	0.00		
6100	0.00	0.00	100	6080.2	131.81	-92.19	253.23	269.49	110.00	0.00		
6200	0.00	0.00	100	6180.2	131.81	-92.19	253.23	269.49	110.00	0.00		
6300	0.00	0.00	100	6280.2	131.81	-92.19	253.23	269.49	110.00	0.00		
6400	0.00	0.00	100	6380.2	131.81	-92.19	253.23	269.49	110.00	0.00		
6500	0.00	0.00	100	6480.2	131.81	-92.19	253.23	269.49	110.00	0.00		
6600	0.00	0.00	100	6580.2	131.81	-92.19	253.23	269.49	110.00	0.00		
6700	0.00	0.00	100	6680.2	131.81	-92.19	253.23	269.49	110.00	0.00		
6800	0.00	0.00	100	6780.2	131.81	-92.19	253.23	269.49	110.00	0.00		
6852	0.00	0.00	52	6831.8	131.81	-92.19	253.23	269.49	110.00	0.00		
6900	3.87	180.07	48	6880.2	133.44	-93.82	253.23	270.05	110.33	7.99	7.99	371.89
7000	11.87	180.07	100	6979.2	147.13	-107.50	253.22	275.09	113.00	8.00	8.00	0.00
7100	19.87	180.07	100	7075.3	174.45	-134.83	253.18	286.84	118.04	8.00	8.00	0.00
7200	27.87	180.07	100	7166.6	214.88	-175.26	253.13	307.88	124.70	8.00	8.00	0.00
7300	35.87	180.07	100	7251.5	267.64	-228.02	253.07	340.64	132.02	8.00	8.00	0.00
7322	37.62	180.07	22	7269.0	280.70	-241.08	253.05	349.51	133.61	8.01	8.01	0.00
7363	40.93	180.07	41	7301.0	306.87	-267.25	253.02	368.02	136.57	8.01	8.01	0.00
7400	43.87	180.07	37	7328.2	331.70	-292.07	252.99	386.41	139.10	7.98	7.98	0.00
7500	51.87	180.07	100	7395.2	405.80	-366.18	252.90	445.02	145.37	8.00	8.00	0.00
7551	55.92	180.07	51	7425.0	446.66	-407.03	252.85	479.18	148.15	8.01	8.01	0.00
7600	59.87	180.07	49	7451.3	488.51	-448.89	252.80	515.18	150.61	7.99	7.99	0.00
7700	67.87	180.07	100	7495.3	578.22	-578.59	252.69	594.92	154.87	8.00	8.00	0.00
7749	71.76	180.07	49	7512.0	623.76	-584.13	252.63	636.42	156.61	8.02	8.02	0.00
7800	75.87	180.07	51	7526.4	673.18	-633.55	252.57	682.04	158.26	7.99	7.99	0.00
7900	83.87	180.07	100	7543.9	771.54	-731.91	252.45	774.23	160.97	8.00	8.00	0.00
7976	89.98	180.07	76	7548.0	847.67	-808.05	252.36	846.54	162.66	8.01	8.01	0.00
8000	89.98	180.07	24	7548.0	871.39	-831.77	252.33	869.20	163.12	0.00	0.00	0.00
8100	89.98	180.07	100	7548.1	971.39	-931.77	252.21	965.30	164.85	0.00	0.00	0.00
8200	89.98	180.07	100	7548.1	1071.39	-1031.77	252.09	1062.12	166.27	0.00	0.00	0.00
8300	89.98	180.07	100	7548.1	1171.39	-1131.77	251.96	1159.48	167.45	0.00	0.00	0.00
8400	89.98	180.07	100	7548.2	1271.39	-1231.77	251.84	1257.25	168.44	0.00	0.00	0.00
8500	89.98	180.07	100	7548.2	1371.39	-1331.77	251.72	1355.35	169.30	0.00	0.00	0.00
8600	89.98	180.07	100	7548.2	1471.39	-1431.77	251.60	1453.71	170.03	0.00	0.00	0.00
8700	89.98	180.07	100	7548.3	1571.39	-1531.77	251.48	1552.27	170.68	0.00	0.00	0.00
8800	89.98	180.07	100	7548.3	1671.39	-1631.77	251.35	1651.01	171.24	0.00	0.00	0.00
8900	89.98	180.07	100	7548.4	1771.39	-1731.77	251.23	1749.90	171.75	0.00	0.00	0.00
9000	89.98	180.07	100	7548.4	1871.39	-1831.77	251.11	1848.90	172.19	0.00	0.00	0.00
9100	89.98	180.07	100	7548.4	1971.39	-1931.77	250.99	1948.00	172.60	0.00	0.00	0.00
9200	89.98	180.07	100	7548.5	2071.39	-2031.77	250.87	2047.20	172.96	0.00	0.00	0.00
9300	89.98	180.07	100	7548.5	2171.39	-2131.77	250.74	2146.46	173.29	0.00	0.00	0.00
9400	89.98	180.07	100	7548.5	2271.39	-2231.77	250.62	2245.80	173.59	0.00	0.00	0.00
9500	89.98	180.07	100	7548.6	2371.39	-2331.77	250.50	2345.18	173.87	0.00	0.00	0.00
9600	89.98	180.07	100	7548.6	2471.39	-2431.77	250.38	2444.62	174.12	0.00	0.00	0.00
9700	89.98	180.07	100	7548.6	2571.39	-2531.77	250.25	2544.11	174.35	0.00	0.00	0.00
9800	89.98	180.07	100	7548.7	2671.39	-2631.77	250.13	2643.63	174.57	0.00	0.00	0.00
9900	89.98	180.07	100	7548.7	2771.39	-2731.77	250.01	2743.18	174.77	0.00	0.00	0.00
10000	89.98	180.07	100	7548.7	2871.39	-2831.77	249.89	2842.77	174.96	0.00	0.00	0.00
10100	89.98	180.07	100	7548.8	2971.39	-2931.77	249.77	2942.39	175.13	0.00	0.00	0.00

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10200	89.98	180.07	100	7548.8	3071.39	-3031.77	249.64	3042.03	175.29	0.00	0.00	0.00
10300	89.98	180.07	100	7548.8	3171.39	-3131.77	249.52	3141.69	175.44	0.00	0.00	0.00
10400	89.98	180.07	100	7548.9	3271.39	-3231.77	249.40	3241.38	175.59	0.00	0.00	0.00
10500	89.98	180.07	100	7548.9	3371.39	-3331.77	249.28	3341.08	175.72	0.00	0.00	0.00
10600	89.98	180.07	100	7548.9	3471.39	-3431.77	249.15	3440.80	175.85	0.00	0.00	0.00
10700	89.98	180.07	100	7549.0	3571.39	-3531.77	249.03	3540.54	175.97	0.00	0.00	0.00
10800	89.98	180.07	100	7549.0	3671.39	-3631.77	248.91	3640.29	176.08	0.00	0.00	0.00
10900	89.98	180.07	100	7549.0	3771.39	-3731.77	248.79	3740.05	176.19	0.00	0.00	0.00
11000	89.98	180.07	100	7549.1	3871.39	-3831.77	248.67	3839.83	176.29	0.00	0.00	0.00
11100	89.98	180.07	100	7549.1	3971.39	-3931.77	248.54	3939.61	176.38	0.00	0.00	0.00
11200	89.98	180.07	100	7549.2	4071.39	-4031.77	248.42	4039.41	176.47	0.00	0.00	0.00
11300	89.98	180.07	100	7549.2	4171.39	-4131.77	248.30	4139.22	176.56	0.00	0.00	0.00
11400	89.98	180.07	100	7549.2	4271.39	-4231.77	248.18	4239.04	176.64	0.00	0.00	0.00
11500	89.98	180.07	100	7549.3	4371.39	-4331.77	248.06	4338.86	176.72	0.00	0.00	0.00
11600	89.98	180.07	100	7549.3	4471.39	-4431.77	247.93	4438.70	176.80	0.00	0.00	0.00
11700	89.98	180.07	100	7549.3	4571.39	-4531.77	247.81	4538.54	176.87	0.00	0.00	0.00
11800	89.98	180.07	100	7549.4	4671.39	-4631.77	247.69	4638.38	176.94	0.00	0.00	0.00
11900	89.98	180.07	100	7549.4	4771.39	-4731.77	247.57	4738.24	177.01	0.00	0.00	0.00
12000	89.98	180.07	100	7549.4	4871.39	-4831.77	247.44	4838.10	177.07	0.00	0.00	0.00
12100	89.98	180.07	100	7549.5	4971.39	-4931.77	247.32	4937.96	177.13	0.00	0.00	0.00
12104	89.98	180.07	4	7549.5	4975.88	-4936.26	247.32	4942.45	177.13	0.00	0.00	0.00
12200	90.11	186.69	96	7549.4	5071.18	-5031.55	241.69	5037.35	177.25	6.93	0.14	6.93
12300	90.25	193.63	100	7549.1	5169.57	-5129.92	224.06	5134.81	177.50	6.94	0.14	6.94
12400	90.38	200.57	100	7548.5	5265.13	-5225.44	194.67	5229.06	177.87	6.94	0.13	6.94
12500	90.51	207.50	100	7547.8	5356.45	-5316.71	153.97	5318.94	178.34	6.93	0.13	6.93
12600	90.63	214.44	100	7546.8	5442.20	-5402.40	102.55	5403.37	178.91	6.94	0.12	6.94
12700	90.74	221.38	100	7545.6	5521.12	-5481.24	41.15	5481.39	179.57	6.94	0.11	6.94
12800	90.84	228.32	100	7544.2	5592.05	-5552.08	-29.33	5552.16	180.30	6.94	0.10	6.94
12900	90.93	235.26	100	7542.6	5653.95	-5613.89	-107.85	5614.93	181.10	6.94	0.09	6.94
13000	91.00	242.20	100	7540.9	5705.93	-5665.76	-193.26	5669.06	181.95	6.94	0.07	6.94
13100	91.06	249.14	100	7539.1	5747.20	-5706.93	-284.30	5714.01	182.85	6.94	0.06	6.94
13200	91.10	256.08	100	7537.3	5777.18	-5736.79	-379.66	5749.34	183.79	6.94	0.04	6.94
13300	91.13	263.02	100	7535.3	5795.43	-5754.92	-477.92	5774.73	184.75	6.94	0.03	6.94
13400	91.14	269.96	100	7533.3	5801.67	-5761.03	-577.65	5789.92	185.73	6.94	0.01	6.94
13500	91.14	276.90	100	7531.3	5795.81	-5755.06	-677.39	5794.78	186.71	6.94	0.00	6.94
13600	91.12	283.84	100	7529.4	5777.95	-5737.07	-775.68	5789.27	187.70	6.94	-0.02	6.94
13700	91.08	290.78	100	7527.4	5748.33	-5707.34	-871.07	5773.43	188.68	6.94	-0.04	6.94
13800	91.02	297.72	100	7525.6	5707.40	-5666.30	-962.18	5747.41	189.64	6.94	-0.06	6.94
13900	90.95	304.66	100	7523.9	5655.76	-5614.55	-1047.66	5711.46	190.57	6.94	-0.07	6.94
14000	90.87	311.60	100	7522.3	5594.16	-5552.85	-1126.26	5665.92	191.47	6.94	-0.08	6.94
14100	90.78	318.54	100	7520.9	5523.50	-5482.11	-1196.84	5611.23	192.32	6.94	-0.09	6.94
14200	90.67	325.47	100	7519.6	5444.82	-5403.35	-1258.35	5547.94	193.11	6.93	-0.11	6.93
14300	90.55	332.41	100	7518.5	5359.28	-5317.75	-1309.91	5476.71	193.84	6.94	-0.12	6.94
14400	90.43	339.35	100	7517.7	5268.12	-5226.54	-1350.75	5398.26	194.49	6.94	-0.12	6.94
14500	90.30	346.29	100	7517.0	5172.67	-5131.06	-1380.27	5313.47	195.06	6.94	-0.13	6.94
14600	90.16	353.23	100	7516.6	5074.35	-5032.71	-1398.04	5223.29	195.52	6.94	-0.14	6.94
14688	90.04	359.36	88	7516.5	4986.13	-4944.49	-1403.75	5139.89	195.85	6.93	-0.14	6.93
14700	90.05	359.53	12	7516.5	4974.58	-4932.94	-1403.86	5128.81	195.89	1.47	0.09	1.47
14800	90.18	1.03	100	7516.3	4874.59	-4832.95	-1403.37	5032.58	196.19	1.51	0.13	-358.50
14812	90.19	1.21	12	7516.2	4862.48	-4820.84	-1403.14	5020.88	196.23	1.49	0.08	1.49
14900	90.19	1.21	88	7515.9	4774.61	-4732.97	-1401.28	4936.05	196.49	0.00	0.00	0.00
15000	90.19	1.21	100	7515.6	4674.63	-4632.99	-1399.17	4839.66	196.80	0.00	0.00	0.00
15100	90.19	1.21	100	7515.3	4574.65	-4533.01	-1397.06	4743.41	197.13	0.00	0.00	0.00
15200	90.19	1.21	100	7514.9	4474.67	-4433.04	-1394.94	4647.33	197.47	0.00	0.00	0.00
15300	90.19	1.21	100	7514.6	4374.69	-4333.06	-1392.83	4551.42	197.82	0.00	0.00	0.00
15400	90.19	1.21	100	7514.3	4274.71	-4233.08	-1390.72	4455.68	198.19	0.00	0.00	0.00
15500	90.19	1.21	100	7513.9	4174.73	-4133.11	-1388.61	4360.14	198.57	0.00	0.00	0.00
15600	90.19	1.21	100	7513.6	4074.75	-4033.13	-1386.50	4264.80	198.97	0.00	0.00	0.00

Minimum Radius of Curvature

API: 51-23-51647 **Well: Schrute Farms 9-5HZ** **Wellhead Location N+/S- : 40.060048**
Operator: Occidental **Area: DJ** **E+/W- : -104.898393**
Rig: **Type: U-Lateral** **Magnetic Declination: 7.82**
TD: 18,795' **Plane of Proposal: 180.07**

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			
15700	90.19	1.21	100	7513.3	3974.77	-3933.15	-1384.39	4169.68	199.39	0.00	0.00	0.00
15800	90.19	1.21	100	7512.9	3874.79	-3833.17	-1382.27	4074.79	199.83	0.00	0.00	0.00
15900	90.19	1.21	100	7512.6	3774.81	-3733.20	-1380.16	3980.15	200.29	0.00	0.00	0.00
16000	90.19	1.21	100	7512.3	3674.83	-3633.22	-1378.05	3885.78	200.77	0.00	0.00	0.00
16100	90.19	1.21	100	7511.9	3574.85	-3533.24	-1375.94	3791.70	201.28	0.00	0.00	0.00
16200	90.19	1.21	100	7511.6	3474.87	-3433.27	-1373.83	3697.93	201.81	0.00	0.00	0.00
16300	90.19	1.21	100	7511.3	3374.89	-3333.29	-1371.72	3604.50	202.37	0.00	0.00	0.00
16400	90.19	1.21	100	7511.0	3274.91	-3233.31	-1369.60	3511.43	202.96	0.00	0.00	0.00
16500	90.19	1.21	100	7510.6	3174.93	-3133.33	-1367.49	3418.74	203.58	0.00	0.00	0.00
16600	90.19	1.21	100	7510.3	3074.95	-3033.36	-1365.38	3326.49	204.23	0.00	0.00	0.00
16700	90.19	1.21	100	7510.0	2974.97	-2933.38	-1363.27	3234.69	204.93	0.00	0.00	0.00
16800	90.19	1.21	100	7509.6	2874.99	-2833.40	-1361.16	3143.39	205.66	0.00	0.00	0.00
16900	90.19	1.21	100	7509.3	2775.02	-2733.42	-1359.05	3052.64	206.44	0.00	0.00	0.00
17000	90.20	1.21	100	7509.0	2675.04	-2633.45	-1356.93	2962.49	207.26	0.01	0.01	0.00
17100	90.20	1.21	100	7508.6	2575.06	-2533.47	-1354.82	2872.98	208.14	0.00	0.00	0.00
17200	90.20	1.21	100	7508.3	2475.08	-2433.49	-1352.71	2784.19	209.07	0.00	0.00	0.00
17300	90.20	1.21	100	7507.9	2375.10	-2333.52	-1350.60	2696.19	210.06	0.00	0.00	0.00
17400	90.20	1.21	100	7507.6	2275.12	-2233.54	-1348.49	2609.05	211.12	0.00	0.00	0.00
17500	90.20	1.21	100	7507.2	2175.14	-2133.56	-1346.38	2522.86	212.25	0.00	0.00	0.00
17600	90.20	1.21	100	7506.9	2075.16	-2033.59	-1344.26	2437.73	213.47	0.00	0.00	0.00
17700	90.20	1.21	100	7506.5	1975.18	-1933.61	-1342.15	2353.77	214.77	0.00	0.00	0.00
17800	90.20	1.21	100	7506.2	1875.20	-1833.63	-1340.04	2271.10	216.16	0.00	0.00	0.00
17900	90.20	1.21	100	7505.8	1775.22	-1733.65	-1337.93	2189.89	217.66	0.00	0.00	0.00
18000	90.20	1.21	100	7505.5	1675.24	-1633.68	-1335.82	2110.29	219.27	0.00	0.00	0.00
18100	90.20	1.21	100	7505.1	1575.26	-1533.70	-1333.71	2032.49	221.01	0.00	0.00	0.00
18200	90.20	1.21	100	7504.8	1475.28	-1433.72	-1331.59	1956.71	222.88	0.00	0.00	0.00
18300	90.20	1.21	100	7504.4	1375.30	-1333.75	-1329.48	1883.19	224.91	0.00	0.00	0.00
18400	90.20	1.21	100	7504.1	1275.32	-1233.77	-1327.37	1812.21	227.09	0.00	0.00	0.00
18500	90.20	1.21	100	7503.7	1175.34	-1133.79	-1325.26	1744.07	229.45	0.00	0.00	0.00
18600	90.20	1.21	100	7503.4	1075.36	-1033.81	-1323.15	1679.13	232.00	0.00	0.00	0.00
18700	90.20	1.21	100	7503.0	975.38	-933.84	-1321.04	1617.77	234.74	0.00	0.00	0.00
18795	90.20	1.21	95	7502.7	880.76	-839.22	-1319.04	1563.38	237.53	0.00	0.00	0.00