

Minimum Radius of Curvature

API: 51-23-51652 **Well: Schrute Farms 9-6HZ** **Wellhead Location N+/S- : 40.060048**
Operator: Occidental **Area: DJ** **E+/W- : -104.898340**
Rig: **Type: U-Lateral** **Magnetic Declination: 7.82**
TD: 18,795' **Plane of Proposal: 179.74**

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	40.54	0.00	0.00	0.00	#DIV/0!	0.00		
200	0.00	0.00	100	200.0	40.54	0.00	0.00	0.00	#DIV/0!	0.00		
300	0.00	0.00	100	300.0	40.54	0.00	0.00	0.00	#DIV/0!	0.00		
400	0.00	0.00	100	400.0	40.54	0.00	0.00	0.00	#DIV/0!	0.00		
450	0.00	0.00	50	450.0	40.54	0.00	0.00	0.00	#DIV/0!	0.00		
500	0.75	180.00	50	500.0	40.86	-0.33	0.00	0.33	180.00	1.50	1.50	360.00
600	2.25	180.00	100	600.0	43.48	-2.94	0.00	2.94	180.00	1.50	1.50	0.00
700	3.75	180.00	100	699.8	48.71	-8.18	0.00	8.18	180.00	1.50	1.50	0.00
783	5.00	180.00	83	782.9	55.07	-14.53	0.00	14.53	180.00	1.50	1.50	0.00
800	4.96	177.15	17	799.5	56.52	-15.98	0.04	15.98	179.87	1.50	-0.24	-17.10
900	4.99	159.80	100	899.1	64.92	-24.38	1.75	24.44	175.89	1.50	0.03	-17.35
1000	5.45	144.06	100	998.7	72.87	-32.31	6.04	32.87	169.41	1.50	0.46	-15.74
1100	6.25	131.52	100	1098.2	80.36	-39.76	12.91	41.80	162.02	1.50	0.80	-12.54
1200	7.27	122.14	100	1197.5	87.37	-46.74	22.34	51.80	154.45	1.50	1.02	-9.38
1300	8.43	115.18	100	1296.6	93.91	-53.22	34.33	63.33	147.18	1.50	1.16	-6.96
1312	8.57	114.51	12	1308.0	94.64	-53.94	35.88	64.78	146.37	1.49	1.21	-5.81
1369	9.29	111.43	58	1364.9	98.15	-57.42	44.11	72.40	142.47	1.50	1.25	-5.35
1400	9.29	111.43	31	1395.4	99.99	-59.24	48.75	76.72	140.55	0.00	0.00	0.00
1500	9.29	111.43	100	1494.0	105.96	-65.14	63.78	91.16	135.60	0.00	0.00	0.00
1506	9.29	111.43	6	1500.0	106.32	-65.49	64.68	92.05	135.36	0.00	0.00	0.00
1600	9.29	111.43	94	1592.7	111.93	-71.03	78.80	106.09	132.03	0.00	0.00	0.00
1700	9.29	111.43	100	1691.4	117.89	-76.93	93.83	121.34	129.35	0.00	0.00	0.00
1800	9.29	111.43	100	1790.1	123.86	-82.83	108.86	136.79	127.27	0.00	0.00	0.00
1900	9.29	111.43	100	1888.8	129.82	-88.73	123.88	152.38	125.61	0.00	0.00	0.00
2000	9.29	111.43	100	1987.5	135.79	-94.63	138.91	168.08	124.26	0.00	0.00	0.00
2100	9.29	111.43	100	2086.2	141.76	-100.52	153.94	183.85	123.15	0.00	0.00	0.00
2200	9.29	111.43	100	2184.9	147.72	-106.42	168.97	199.69	122.20	0.00	0.00	0.00
2300	9.29	111.43	100	2283.6	153.69	-112.32	183.99	215.57	121.40	0.00	0.00	0.00
2400	9.29	111.43	100	2382.2	159.66	-118.22	199.02	231.48	120.71	0.00	0.00	0.00
2500	9.29	111.43	100	2480.9	165.62	-124.12	214.05	247.43	120.11	0.00	0.00	0.00
2600	9.29	111.43	100	2579.6	171.59	-130.01	229.07	263.40	119.58	0.00	0.00	0.00
2700	9.29	111.43	100	2678.3	177.55	-135.91	244.10	279.39	119.11	0.00	0.00	0.00
2800	9.29	111.43	100	2777.0	183.52	-141.81	259.13	295.39	118.69	0.00	0.00	0.00
2900	9.29	111.43	100	2875.7	189.49	-147.71	274.16	311.41	118.31	0.00	0.00	0.00
3000	9.29	111.43	100	2974.4	195.45	-153.61	289.18	327.45	117.98	0.00	0.00	0.00
3100	9.29	111.43	100	3073.1	201.42	-159.51	304.21	343.49	117.67	0.00	0.00	0.00
3200	9.29	111.43	100	3171.7	207.39	-165.40	319.24	359.54	117.39	0.00	0.00	0.00
3300	9.29	111.43	100	3270.4	213.35	-171.30	334.26	375.60	117.13	0.00	0.00	0.00
3400	9.29	111.43	100	3369.1	219.32	-177.20	349.29	391.67	116.90	0.00	0.00	0.00
3500	9.29	111.43	100	3467.8	225.28	-183.10	364.32	407.74	116.68	0.00	0.00	0.00
3600	9.29	111.43	100	3566.5	231.25	-189.00	379.35	423.82	116.48	0.00	0.00	0.00
3700	9.29	111.43	100	3665.2	237.22	-194.89	394.37	439.90	116.30	0.00	0.00	0.00
3800	9.29	111.43	100	3763.9	243.18	-200.79	409.40	455.99	116.13	0.00	0.00	0.00
3900	9.29	111.43	100	3862.6	249.15	-206.69	424.43	472.08	115.97	0.00	0.00	0.00
4000	9.29	111.43	100	3961.3	255.12	-212.59	439.45	488.17	115.82	0.00	0.00	0.00
4100	9.29	111.43	100	4059.9	261.08	-218.49	454.48	504.27	115.68	0.00	0.00	0.00
4200	9.29	111.43	100	4158.6	267.05	-224.38	469.51	520.37	115.54	0.00	0.00	0.00
4248	9.29	111.43	48	4206.0	269.91	-227.22	476.72	528.10	115.48	0.00	0.00	0.00
4300	9.29	111.43	52	4257.3	273.01	-230.28	484.53	536.47	115.42	0.00	0.00	0.00
4400	9.29	111.43	100	4356.0	278.98	-236.18	499.56	552.58	115.30	0.00	0.00	0.00
4500	9.29	111.43	100	4454.7	284.95	-242.08	514.59	568.69	115.19	0.00	0.00	0.00
4600	9.29	111.43	100	4553.4	290.91	-247.98	529.62	584.80	115.09	0.00	0.00	0.00
4606	9.29	111.43	6	4559.0	291.25	-248.31	530.47	585.72	115.08	0.00	0.00	0.00
4700	9.29	111.43	94	4652.1	296.88	-253.88	544.64	600.91	114.99	0.00	0.00	0.00
4800	9.29	111.43	100	4750.8	302.85	-259.77	559.67	617.02	114.90	0.00	0.00	0.00
4900	9.29	111.43	100	4849.4	308.81	-265.67	574.70	633.13	114.81	0.00	0.00	0.00
5000	9.29	111.43	100	4948.1	314.78	-271.57	589.72	649.25	114.73	0.00	0.00	0.00

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Operator: Occidental **Area: DJ** **E+/W- : -104.898340**
Rig: **Type: U-Lateral** **Magnetic Declination: 7.82**
TD: 18,795' **Plane of Proposal: 179.74**

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			
5080	9.29	111.43	80	5027.3	319.56	-276.30	601.77	662.17	114.66	0.00	0.00	0.00
5100	8.90	111.43	20	5046.8	320.72	-277.44	604.69	665.30	114.65	1.97	-1.97	0.00
5200	6.90	111.43	100	5145.9	325.80	-282.47	617.48	679.02	114.58	2.00	-2.00	0.00
5300	4.90	111.43	100	5245.3	329.60	-286.22	627.05	689.29	114.53	2.00	-2.00	0.00
5400	2.90	111.43	100	5345.1	332.11	-288.71	633.38	696.08	114.50	2.00	-2.00	0.00
5500	0.90	111.43	100	5445.1	333.34	-289.92	636.47	699.39	114.49	2.00	-2.00	0.00
5545	0.00	0.00	45	5489.8	333.47	-290.05	636.80	699.74	114.49	2.01		
5600	0.00	0.00	55	5545.0	333.47	-290.05	636.80	699.74	114.49	0.00		
5700	0.00	0.00	100	5645.0	333.47	-290.05	636.80	699.74	114.49	0.00		
5800	0.00	0.00	100	5745.0	333.47	-290.05	636.80	699.74	114.49	0.00		
5900	0.00	0.00	100	5845.0	333.47	-290.05	636.80	699.74	114.49	0.00		
6000	0.00	0.00	100	5945.0	333.47	-290.05	636.80	699.74	114.49	0.00		
6100	0.00	0.00	100	6045.0	333.47	-290.05	636.80	699.74	114.49	0.00		
6200	0.00	0.00	100	6145.0	333.47	-290.05	636.80	699.74	114.49	0.00		
6300	0.00	0.00	100	6245.0	333.47	-290.05	636.80	699.74	114.49	0.00		
6400	0.00	0.00	100	6345.0	333.47	-290.05	636.80	699.74	114.49	0.00		
6500	0.00	0.00	100	6445.0	333.47	-290.05	636.80	699.74	114.49	0.00		
6600	0.00	0.00	100	6545.0	333.47	-290.05	636.80	699.74	114.49	0.00		
6700	0.00	0.00	100	6645.0	333.47	-290.05	636.80	699.74	114.49	0.00		
6800	0.00	0.00	100	6745.0	333.47	-290.05	636.80	699.74	114.49	0.00		
6900	0.00	0.00	100	6845.0	333.47	-290.05	636.80	699.74	114.49	0.00		
7000	0.00	0.00	100	6945.0	333.47	-290.05	636.80	699.74	114.49	0.00		
7045	0.00	0.00	45	6989.8	333.47	-290.05	636.80	699.74	114.49	0.00		
7100	4.42	179.74	55	7045.0	335.60	-292.17	636.81	700.63	114.65	8.00	8.00	325.44
7200	12.42	179.74	100	7143.8	350.23	-306.81	636.87	706.92	115.72	8.00	8.00	0.00
7300	20.42	179.74	100	7239.7	378.47	-335.05	637.00	719.74	117.74	8.00	8.00	0.00
7332	22.94	179.74	32	7269.0	390.13	-346.71	637.05	725.29	118.56	7.98	7.98	0.00
7367	25.75	179.74	35	7301.0	404.61	-361.19	637.12	732.38	119.55	8.00	8.00	0.00
7400	28.42	179.74	33	7330.7	419.77	-376.35	637.19	740.03	120.57	8.02	8.02	0.00
7500	36.42	179.74	100	7415.0	473.34	-429.92	637.43	768.86	124.00	8.00	8.00	0.00
7513	37.42	179.74	13	7425.0	480.86	-437.44	637.46	773.12	124.46	7.99	7.99	0.00
7600	44.42	179.74	87	7491.1	538.13	-494.70	637.72	807.11	127.80	8.00	8.00	0.00
7630	46.81	179.74	30	7512.0	559.52	-516.09	637.82	820.47	128.98	7.99	7.99	0.00
7700	52.42	179.74	70	7557.4	612.87	-569.44	638.06	855.21	131.75	8.01	8.01	0.00
7800	60.42	179.74	100	7612.7	696.11	-652.69	638.44	913.02	135.63	8.00	8.00	0.00
7872	66.18	179.74	72	7645.0	760.43	-717.01	638.73	960.25	138.30	8.00	8.00	0.00
7900	68.42	179.74	28	7655.8	786.24	-742.81	638.85	979.74	139.30	8.01	8.01	0.00
7929	70.76	179.74	29	7666.0	813.67	-770.24	638.97	1000.78	140.32	7.99	7.99	0.00
8000	76.42	179.74	71	7686.0	881.49	-838.06	639.28	1054.05	142.66	8.00	8.00	0.00
8100	84.42	179.74	100	7702.6	980.01	-936.58	639.73	1134.21	145.67	8.00	8.00	0.00
8172	90.17	179.74	72	7706.0	1051.85	-1008.42	640.06	1194.40	147.60	7.99	7.99	0.00
8200	90.17	179.74	28	7705.9	1079.90	-1036.47	640.18	1218.24	148.30	0.00	0.00	0.00
8300	90.17	179.74	100	7705.6	1179.90	-1136.47	640.64	1304.60	150.59	0.00	0.00	0.00
8400	90.17	179.74	100	7705.3	1279.90	-1236.47	641.09	1392.79	152.59	0.00	0.00	0.00
8500	90.17	179.74	100	7705.0	1379.90	-1336.47	641.54	1482.47	154.36	0.00	0.00	0.00
8600	90.17	179.74	100	7704.7	1479.90	-1436.47	642.00	1573.40	155.92	0.00	0.00	0.00
8700	90.17	179.74	100	7704.4	1579.90	-1536.47	642.45	1665.37	157.31	0.00	0.00	0.00
8800	90.17	179.74	100	7704.1	1679.90	-1636.46	642.91	1758.22	158.55	0.00	0.00	0.00
8900	90.17	179.74	100	7703.8	1779.90	-1736.46	643.36	1851.81	159.67	0.00	0.00	0.00
9000	90.17	179.74	100	7703.6	1879.90	-1836.46	643.81	1946.04	160.68	0.00	0.00	0.00
9100	90.17	179.74	100	7703.3	1979.90	-1936.46	644.27	2040.82	161.60	0.00	0.00	0.00
9200	90.17	179.74	100	7703.0	2079.90	-2036.46	644.72	2136.08	162.43	0.00	0.00	0.00
9300	90.17	179.74	100	7702.7	2179.90	-2136.46	645.17	2231.75	163.20	0.00	0.00	0.00
9400	90.17	179.74	100	7702.4	2279.90	-2236.45	645.63	2327.78	163.90	0.00	0.00	0.00
9500	90.17	179.74	100	7702.1	2379.90	-2336.45	646.08	2424.14	164.54	0.00	0.00	0.00
9600	90.17	179.74	100	7701.8	2479.90	-2436.45	646.54	2520.78	165.14	0.00	0.00	0.00
9700	90.17	179.74	100	7701.5	2579.90	-2536.45	646.99	2617.67	165.69	0.00	0.00	0.00
9800	90.17	179.74	100	7701.2	2679.90	-2636.45	647.44	2714.78	166.20	0.00	0.00	0.00

Minimum Radius of Curvature

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 Operator: **Occidental** Area: **DJ** E+/W- : **-104.898340**
 Rig: Type: **U-Lateral** Magnetic Declination: **7.82**
 TD: **18,795'** Plane of Proposal: **179.74**

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			
9900	90.17	179.74	100	7700.9	2779.90	-2736.45	647.90	2812.10	166.68	0.00	0.00	0.00
10000	90.17	179.74	100	7700.6	2879.89	-2836.45	648.35	2909.60	167.12	0.00	0.00	0.00
10100	90.17	179.74	100	7700.3	2979.89	-2936.44	648.80	3007.27	167.54	0.00	0.00	0.00
10200	90.17	179.74	100	7700.0	3079.89	-3036.44	649.26	3105.08	167.93	0.00	0.00	0.00
10300	90.17	179.74	100	7699.7	3179.89	-3136.44	649.71	3203.03	168.30	0.00	0.00	0.00
10400	90.17	179.74	100	7699.4	3279.89	-3236.44	650.17	3301.10	168.64	0.00	0.00	0.00
10500	90.17	179.74	100	7699.1	3379.89	-3336.44	650.62	3399.28	168.97	0.00	0.00	0.00
10600	90.17	179.74	100	7698.8	3479.89	-3436.44	651.07	3497.57	169.27	0.00	0.00	0.00
10700	90.17	179.74	100	7698.5	3579.89	-3536.44	651.53	3595.95	169.56	0.00	0.00	0.00
10800	90.17	179.74	100	7698.2	3679.89	-3636.43	651.98	3694.42	169.84	0.00	0.00	0.00
10900	90.17	179.74	100	7697.9	3779.89	-3736.43	652.43	3792.97	170.10	0.00	0.00	0.00
11000	90.17	179.74	100	7697.6	3879.89	-3836.43	652.89	3891.59	170.34	0.00	0.00	0.00
11100	90.17	179.74	100	7697.3	3979.89	-3936.43	653.34	3990.28	170.58	0.00	0.00	0.00
11200	90.17	179.74	100	7697.0	4079.89	-4036.43	653.80	4089.03	170.80	0.00	0.00	0.00
11300	90.17	179.74	100	7696.7	4179.89	-4136.43	654.25	4187.85	171.01	0.00	0.00	0.00
11400	90.17	179.74	100	7696.4	4279.89	-4236.43	654.70	4286.72	171.21	0.00	0.00	0.00
11500	90.17	179.74	100	7696.1	4379.89	-4336.42	655.16	4385.64	171.41	0.00	0.00	0.00
11600	90.17	179.74	100	7695.8	4479.89	-4436.42	655.61	4484.60	171.59	0.00	0.00	0.00
11700	90.17	179.74	100	7695.5	4579.89	-4536.42	656.07	4583.62	171.77	0.00	0.00	0.00
11800	90.17	179.74	100	7695.2	4679.89	-4636.42	656.52	4682.67	171.94	0.00	0.00	0.00
11900	90.17	179.74	100	7694.9	4779.89	-4736.42	656.97	4781.76	172.10	0.00	0.00	0.00
12000	90.17	179.74	100	7694.6	4879.89	-4836.42	657.43	4880.90	172.26	0.00	0.00	0.00
12100	90.17	179.74	100	7694.4	4979.89	-4936.42	657.88	4980.06	172.41	0.00	0.00	0.00
12100	90.17	179.74	0	7694.4	4980.28	-4936.81	657.88	4980.45	172.41	0.00	0.00	0.00
12200	90.66	186.72	100	7693.6	5079.64	-5036.19	652.27	5078.26	172.62	7.02	0.49	7.01
12300	91.13	193.72	100	7692.1	5177.89	-5134.53	634.54	5173.59	172.95	7.01	0.47	7.00
12400	91.59	200.73	100	7689.7	5273.19	-5229.96	604.96	5264.83	173.40	7.02	0.46	7.01
12500	92.02	207.74	100	7686.5	5364.09	-5321.05	563.96	5350.85	173.95	7.02	0.43	7.01
12600	92.42	214.76	100	7682.7	5449.22	-5406.42	512.15	5430.62	174.59	7.03	0.40	7.02
12700	92.79	221.77	100	7678.1	5527.33	-5484.81	450.33	5503.26	175.31	7.01	0.37	7.01
12800	93.12	228.80	100	7672.9	5597.23	-5555.03	379.41	5567.97	176.09	7.03	0.33	7.03
12900	93.39	235.82	100	7667.3	5657.87	-5616.03	300.45	5624.06	176.94	7.01	0.27	7.02
13000	93.62	242.85	100	7661.1	5708.35	-5666.90	214.65	5670.97	177.83	7.02	0.23	7.03
13100	93.79	249.89	100	7654.7	5747.91	-5706.88	123.28	5708.21	178.76	7.03	0.17	7.04
13200	93.91	256.92	100	7647.9	5775.96	-5735.36	27.73	5735.42	179.72	7.02	0.12	7.03
13300	93.97	263.96	100	7641.1	5792.07	-5751.91	-70.59	5752.35	180.70	7.02	0.06	7.04
13400	93.97	271.00	100	7634.1	5796.00	-5756.30	-170.19	5758.81	181.69	7.02	0.00	7.04
13500	93.90	278.03	100	7627.3	5787.70	-5748.45	-269.58	5754.77	182.69	7.01	-0.07	7.03
13600	93.78	285.07	100	7620.6	5767.29	-5728.48	-367.27	5740.25	183.67	7.03	-0.12	7.04
13700	93.61	292.10	100	7614.1	5735.08	-5696.70	-461.80	5715.39	184.63	7.02	-0.17	7.03
13800	93.38	299.13	100	7608.0	5691.55	-5653.57	-551.75	5680.43	185.57	7.02	-0.23	7.03
13900	93.09	306.16	100	7602.3	5637.34	-5599.75	-635.77	5635.72	186.48	7.02	-0.29	7.03
14000	92.77	313.18	100	7597.2	5573.28	-5536.04	-712.59	5581.71	187.33	7.02	-0.32	7.02
14100	92.40	320.20	100	7592.7	5500.32	-5463.39	-781.07	5518.94	188.14	7.02	-0.37	7.02
14200	91.99	327.21	100	7588.9	5419.57	-5382.90	-840.18	5448.08	188.87	7.02	-0.41	7.01
14300	91.56	334.22	100	7585.8	5332.22	-5295.78	-889.04	5369.88	189.53	7.02	-0.43	7.01
14400	91.10	341.23	100	7583.5	5239.60	-5203.32	-926.91	5285.24	190.10	7.02	-0.46	7.01
14500	90.62	348.24	100	7582.0	5143.08	-5106.92	-953.22	5195.12	190.57	7.03	-0.48	7.01
14600	90.14	355.24	100	7581.3	5044.12	-5008.02	-967.58	5100.64	190.94	7.02	-0.48	7.00
14668	89.81	0.00	68	7581.3	4976.20	-4940.12	-970.40	5034.53	191.11	7.02	-0.49	-522.57
14695	90.17	359.81	27	7581.3	4948.98	-4912.90	-970.45	5007.83	191.17	1.50	1.32	1321.86
14700	90.17	359.81	5	7581.3	4944.18	-4908.10	-970.46	5003.13	191.18	0.00	0.00	0.00
14800	90.17	359.81	100	7581.0	4844.18	-4808.10	-970.79	4905.13	191.42	0.00	0.00	0.00
14900	90.17	359.81	100	7580.7	4744.18	-4708.10	-971.13	4807.22	191.65	0.00	0.00	0.00
15000	90.17	359.81	100	7580.4	4644.18	-4608.10	-971.46	4709.39	191.90	0.00	0.00	0.00
15100	90.17	359.81	100	7580.1	4544.19	-4508.11	-971.79	4611.66	192.16	0.00	0.00	0.00
15200	90.17	359.81	100	7579.8	4444.19	-4408.11	-972.12	4514.03	192.44	0.00	0.00	0.00
15300	90.17	359.81	100	7579.5	4344.19	-4308.11	-972.45	4416.50	192.72	0.00	0.00	0.00

Minimum Radius of Curvature

API: 51-23-51652 **Well: Schrute Farms 9-6HZ** **Wellhead Location N+/S- : 40.060048**
Operator: Occidental **Area: DJ** **E+/W- : -104.898340**
Rig: **Type: U-Lateral** **Magnetic Declination: 7.82**
TD: 18,795' **Plane of Proposal: 179.74**

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			
15400	90.17	359.81	100	7579.2	4244.19	-4208.11	-972.78	4319.08	193.02	0.00	0.00	0.00
15500	90.17	359.81	100	7578.9	4144.19	-4108.11	-973.12	4221.79	193.33	0.00	0.00	0.00
15600	90.17	359.81	100	7578.6	4044.19	-4008.11	-973.45	4124.63	193.65	0.00	0.00	0.00
15700	90.17	359.81	100	7578.3	3944.19	-3908.11	-973.78	4027.60	193.99	0.00	0.00	0.00
15800	90.17	359.81	100	7578.0	3844.19	-3808.11	-974.11	3930.73	194.35	0.00	0.00	0.00
15900	90.17	359.81	100	7577.7	3744.19	-3708.11	-974.44	3834.01	194.72	0.00	0.00	0.00
16000	90.17	359.81	100	7577.5	3644.19	-3608.11	-974.77	3737.47	195.12	0.00	0.00	0.00
16100	90.17	359.81	100	7577.2	3544.19	-3508.12	-975.11	3641.11	195.53	0.00	0.00	0.00
16200	90.17	359.81	100	7576.9	3444.19	-3408.12	-975.44	3544.96	195.97	0.00	0.00	0.00
16300	90.17	359.81	100	7576.6	3344.19	-3308.12	-975.77	3449.02	196.43	0.00	0.00	0.00
16400	90.17	359.81	100	7576.3	3244.19	-3208.12	-976.10	3353.33	196.92	0.00	0.00	0.00
16500	90.17	359.81	100	7576.0	3144.19	-3108.12	-976.43	3257.89	197.44	0.00	0.00	0.00
16600	90.17	359.81	100	7575.7	3044.19	-3008.12	-976.76	3162.73	197.99	0.00	0.00	0.00
16700	90.17	359.81	100	7575.4	2944.19	-2908.12	-977.10	3067.88	198.57	0.00	0.00	0.00
16800	90.17	359.81	100	7575.1	2844.19	-2808.12	-977.43	2973.37	199.19	0.00	0.00	0.00
16900	90.17	359.81	100	7574.8	2744.19	-2708.12	-977.76	2879.23	199.85	0.00	0.00	0.00
17000	90.17	359.81	100	7574.5	2644.19	-2608.12	-978.09	2785.49	200.56	0.00	0.00	0.00
17100	90.17	359.81	100	7574.2	2544.20	-2508.13	-978.42	2692.21	201.31	0.00	0.00	0.00
17200	90.17	359.81	100	7573.9	2444.20	-2408.13	-978.75	2599.43	202.12	0.00	0.00	0.00
17300	90.17	359.81	100	7573.6	2344.20	-2308.13	-979.08	2507.20	202.99	0.00	0.00	0.00
17400	90.17	359.81	100	7573.3	2244.20	-2208.13	-979.42	2415.59	203.92	0.00	0.00	0.00
17500	90.17	359.81	100	7573.0	2144.20	-2108.13	-979.75	2324.68	204.93	0.00	0.00	0.00
17600	90.17	359.81	100	7572.7	2044.20	-2008.13	-980.08	2234.53	206.01	0.00	0.00	0.00
17700	90.17	359.81	100	7572.4	1944.20	-1908.13	-980.41	2145.27	207.19	0.00	0.00	0.00
17800	90.17	359.81	100	7572.1	1844.20	-1808.13	-980.74	2056.99	208.48	0.00	0.00	0.00
17900	90.17	359.81	100	7571.8	1744.20	-1708.13	-981.07	1969.83	209.87	0.00	0.00	0.00
18000	90.17	359.81	100	7571.5	1644.20	-1608.13	-981.41	1883.95	211.39	0.00	0.00	0.00
18100	90.17	359.81	100	7571.2	1544.20	-1508.14	-981.74	1799.52	213.06	0.00	0.00	0.00
18200	90.17	359.81	100	7570.9	1444.20	-1408.14	-982.07	1716.77	214.89	0.00	0.00	0.00
18300	90.17	359.81	100	7570.6	1344.20	-1308.14	-982.40	1635.95	216.91	0.00	0.00	0.00
18400	90.17	359.81	100	7570.3	1244.20	-1208.14	-982.73	1557.36	219.13	0.00	0.00	0.00
18500	90.17	359.81	100	7570.0	1144.20	-1108.14	-983.06	1481.35	221.58	0.00	0.00	0.00
18600	90.17	359.81	100	7569.7	1044.20	-1008.14	-983.40	1408.34	224.29	0.00	0.00	0.00
18700	90.17	359.81	100	7569.4	944.20	-908.14	-983.73	1338.82	227.29	0.00	0.00	0.00
18795	90.17	359.81	95	7569.2	849.64	-813.58	-984.04	1276.81	230.42	0.00	0.00	0.00