



Company: COG Operating, LLC.

Rig: Work Over

Latitude: 32.071

Longitude: -104.366

API # 30-015-42348

Date: 3/31/15

Accepted for record
ORD NMOCD 4/27/15

Well: Pine Springs 2 State SWD #1

Location: Eddy County, NM

Grid North 0.02

Depth Reference: 27 feet

Surveyor: Daniel Miller

VS: 0.000

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 24 2015

RECEIVED

INFLEX CONTINUOUS GYRO CALCULATION

Depth	Inc	AzG	N/S	E/W	TVD	DL	VS	GD	Gbrg
0	0.00	0.00	0.00	0.00	0.00	****	0.00	0.00	0.00
125	1.07	219.10	-0.91	-0.74	124.99	0.86	-0.91	1.17	219.10
150	1.06	221.66	-1.26	-1.04	149.99	0.21	-1.26	1.64	219.46
175	1.03	227.98	-1.59	-1.36	174.98	0.47	-1.59	2.09	220.61
200	0.95	228.85	-1.87	-1.68	199.98	0.31	-1.87	2.52	221.94
225	0.87	235.51	-2.12	-2.00	224.98	0.53	-2.12	2.91	223.31
250	0.73	235.90	-2.31	-2.28	249.97	0.58	-2.31	3.25	224.63
275	0.70	232.40	-2.50	-2.54	274.97	0.20	-2.50	3.56	225.46
300	0.67	220.65	-2.70	-2.75	299.97	0.57	-2.70	3.86	225.55
325	0.69	216.76	-2.93	-2.94	324.97	0.20	-2.93	4.15	225.06
350	0.70	221.60	-3.17	-3.13	349.97	0.23	-3.17	4.45	224.66
375	0.80	221.47	-3.41	-3.35	374.97	0.40	-3.41	4.78	224.45
400	0.86	222.18	-3.68	-3.59	399.96	0.25	-3.68	5.14	224.26
425	0.90	225.50	-3.96	-3.85	424.96	0.27	-3.96	5.53	224.24
450	0.92	229.59	-4.23	-4.15	449.96	0.26	-4.23	5.92	224.46
475	0.88	236.84	-4.46	-4.46	474.95	0.48	-4.46	6.31	224.99
500	0.87	236.96	-4.67	-4.78	499.95	0.01	-4.67	6.68	225.67
525	0.89	239.44	-4.87	-5.11	524.95	0.16	-4.87	7.06	226.35
550	0.83	241.20	-5.06	-5.43	549.95	0.26	-5.06	7.42	227.04
575	0.77	243.25	-5.22	-5.74	574.94	0.25	-5.22	7.76	227.71
600	0.67	248.76	-5.35	-6.02	599.94	0.49	-5.35	8.05	228.41
625	0.61	254.40	-5.44	-6.29	624.94	0.35	-5.44	8.31	229.16
650	0.51	267.95	-5.48	-6.52	649.94	0.66	-5.48	8.52	230.00
675	0.47	272.73	-5.47	-6.74	674.94	0.22	-5.47	8.68	230.90
700	0.45	271.52	-5.47	-6.94	699.94	0.08	-5.47	8.83	231.76
725	0.41	276.97	-5.45	-7.12	724.94	0.22	-5.45	8.97	232.56
750	0.36	284.19	-5.42	-7.29	749.93	0.29	-5.42	9.08	233.34
775	0.29	266.17	-5.41	-7.43	774.93	0.48	-5.41	9.19	233.94
800	0.25	251.81	-5.43	-7.54	799.93	0.31	-5.43	9.29	234.25
825	0.29	239.03	-5.48	-7.65	824.93	0.27	-5.48	9.41	234.39
850	0.18	230.72	-5.54	-7.73	849.93	0.43	-5.54	9.51	234.40
875	0.23	208.21	-5.61	-7.79	874.93	0.38	-5.61	9.60	234.25
900	0.19	166.02	-5.69	-7.80	899.93	0.63	-5.69	9.66	233.89
925	0.21	144.47	-5.77	-7.77	924.93	0.31	-5.77	9.68	233.38
950	0.23	148.03	-5.85	-7.71	949.93	0.10	-5.85	9.68	232.81
975	0.20	136.06	-5.93	-7.66	974.93	0.23	-5.93	9.68	232.26
1000	0.27	127.65	-5.99	-7.58	999.93	0.34	-5.99	9.66	231.67
1025	0.36	129.98	-6.08	-7.47	1024.93	0.35	-6.08	9.63	230.86
1050	0.33	114.99	-6.16	-7.35	1049.93	0.38	-6.16	9.59	230.02

1075	0.34	117.84	-6.23	-7.22	1074.93	0.08	-6.23	9.53	229.22
1100	0.32	125.93	-6.30	-7.10	1099.93	0.20	-6.30	9.49	228.40
1125	0.27	115.58	-6.37	-6.99	1124.93	0.29	-6.37	9.45	227.67
1150	0.30	126.15	-6.43	-6.88	1149.93	0.24	-6.43	9.42	226.95
1175	0.28	109.98	-6.49	-6.77	1174.93	0.33	-6.49	9.38	226.24
1200	0.33	110.75	-6.53	-6.65	1199.93	0.21	-6.53	9.32	225.51
1225	0.48	112.69	-6.60	-6.49	1224.93	0.60	-6.60	9.25	224.51
1250	0.68	103.42	-6.67	-6.25	1249.93	0.89	-6.67	9.14	223.11
1275	0.76	100.58	-6.74	-5.94	1274.93	0.34	-6.74	8.98	221.40
1300	0.81	100.40	-6.80	-5.60	1299.92	0.22	-6.80	8.81	219.48
1325	0.89	99.05	-6.86	-5.24	1324.92	0.30	-6.86	8.63	217.35
1350	0.90	92.65	-6.90	-4.85	1349.92	0.40	-6.90	8.44	215.09
1375	0.94	92.04	-6.92	-4.45	1374.91	0.19	-6.92	8.23	212.74
1400	0.91	90.94	-6.93	-4.05	1399.91	0.18	-6.93	8.02	210.27
1425	0.95	93.93	-6.95	-3.64	1424.91	0.25	-6.95	7.84	207.66
1450	0.87	92.62	-6.97	-3.25	1449.90	0.31	-6.97	7.69	204.97
1475	0.85	98.03	-7.00	-2.87	1474.90	0.34	-7.00	7.57	202.30
1500	0.71	100.37	-7.06	-2.54	1499.90	0.58	-7.06	7.50	199.77
1525	0.59	95.77	-7.10	-2.26	1524.90	0.52	-7.10	7.45	197.63
1550	0.58	94.76	-7.12	-2.00	1549.90	0.06	-7.12	7.40	195.70
1575	0.54	92.44	-7.14	-1.76	1574.90	0.19	-7.14	7.35	193.85
1600	0.48	95.56	-7.15	-1.54	1599.89	0.24	-7.15	7.32	192.15
1625	0.36	91.33	-7.17	-1.36	1624.89	0.50	-7.17	7.29	190.72
1650	0.23	70.02	-7.15	-1.23	1649.89	0.68	-7.15	7.26	189.77
1675	0.21	83.00	-7.13	-1.14	1674.89	0.21	-7.13	7.22	189.07
1700	0.24	80.66	-7.11	-1.04	1699.89	0.11	-7.11	7.19	188.32
1725	0.21	75.84	-7.09	-0.94	1724.89	0.14	-7.09	7.16	187.59
1750	0.21	69.10	-7.07	-0.86	1749.89	0.10	-7.07	7.12	186.92
1775	0.21	80.78	-7.04	-0.77	1774.89	0.17	-7.04	7.09	186.24
1800	0.20	68.41	-7.02	-0.69	1799.89	0.18	-7.02	7.05	185.58
1825	0.20	79.39	-7.00	-0.60	1824.89	0.15	-7.00	7.02	184.92
1850	0.21	69.58	-6.97	-0.52	1849.89	0.14	-6.97	6.99	184.24
1875	0.19	76.42	-6.95	-0.43	1874.89	0.12	-6.95	6.96	183.57
1900	0.17	67.97	-6.92	-0.36	1899.89	0.14	-6.92	6.93	182.96
1925	0.11	13.27	-6.89	-0.32	1924.89	0.56	-6.89	6.89	182.65
1950	0.12	37.85	-6.84	-0.30	1949.89	0.20	-6.84	6.85	182.49
1975	0.11	56.71	-6.81	-0.26	1974.89	0.15	-6.81	6.81	182.19
2000	0.14	47.09	-6.77	-0.22	1999.89	0.13	-6.77	6.78	181.85
2025	0.15	42.01	-6.73	-0.18	2024.89	0.08	-6.73	6.73	181.49
2050	0.17	215.61	-6.74	-0.17	2049.89	1.28	-6.74	6.74	181.49
2075	0.12	336.03	-6.74	-0.21	2074.89	1.00	-6.74	6.75	181.76
2100	0.17	181.21	-6.76	-0.22	2099.89	1.12	-6.76	6.76	181.85
2125	0.12	316.80	-6.78	-0.24	2124.89	1.07	-6.78	6.78	182.00
2150	0.15	180.11	-6.79	-0.25	2149.89	1.02	-6.79	6.79	182.14
2175	0.18	213.98	-6.86	-0.28	2174.89	0.41	-6.86	6.86	182.31
2200	0.31	206.62	-6.95	-0.33	2199.89	0.52	-6.95	6.96	182.71
2225	0.28	209.29	-7.06	-0.39	2224.89	0.15	-7.06	7.08	183.15

2250	0.32	216.16	-7.17	-0.46	2249.89	0.22	-7.17	7.19	183.67
2275	0.33	209.61	-7.29	-0.54	2274.89	0.15	-7.29	7.31	184.21
2300	0.42	207.40	-7.44	-0.61	2299.89	0.37	-7.44	7.46	184.72
2325	0.48	202.29	-7.61	-0.70	2324.89	0.30	-7.61	7.65	185.22
2350	0.49	203.02	-7.81	-0.78	2349.89	0.03	-7.81	7.85	185.69
2375	0.51	205.33	-8.01	-0.87	2374.89	0.11	-8.01	8.05	186.18
2400	0.49	201.31	-8.21	-0.95	2399.89	0.15	-8.21	8.26	186.62
2425	0.50	202.46	-8.41	-1.03	2424.89	0.05	-8.41	8.47	187.01
2450	0.52	211.56	-8.61	-1.14	2449.88	0.33	-8.61	8.68	187.51
2475	0.54	211.84	-8.80	-1.26	2474.88	0.10	-8.80	8.89	188.12
2500	0.51	215.65	-9.00	-1.38	2499.88	0.18	-9.00	9.10	188.75
2525	0.52	216.89	-9.18	-1.52	2524.88	0.06	-9.18	9.30	189.39
2550	0.53	218.93	-9.36	-1.66	2549.88	0.08	-9.36	9.50	190.05
2575	0.50	222.77	-9.53	-1.80	2574.88	0.18	-9.53	9.70	190.73
2600	0.48	220.54	-9.69	-1.95	2599.88	0.11	-9.69	9.88	191.36
2625	0.46	225.10	-9.84	-2.08	2624.88	0.17	-9.84	10.05	191.97
2650	0.46	219.95	-9.98	-2.22	2649.88	0.16	-9.98	10.23	192.53
2675	0.45	229.59	-10.12	-2.36	2674.88	0.30	-10.12	10.39	193.11
2700	0.43	226.75	-10.25	-2.50	2699.87	0.12	-10.25	10.55	193.71
2725	0.36	223.55	-10.37	-2.62	2724.87	0.28	-10.37	10.70	194.19
2750	0.33	227.24	-10.48	-2.73	2749.87	0.17	-10.48	10.83	194.60
2775	0.31	232.25	-10.57	-2.83	2774.87	0.13	-10.57	10.94	195.02
2800	0.31	225.37	-10.65	-2.94	2799.87	0.15	-10.65	11.05	195.41
2825	0.29	222.86	-10.75	-3.03	2824.87	0.09	-10.75	11.17	195.73
2850	0.20	217.70	-10.83	-3.10	2849.87	0.36	-10.83	11.27	195.96
2875	0.17	209.35	-10.90	-3.14	2874.87	0.17	-10.90	11.34	196.09
2900	0.15	227.67	-10.95	-3.19	2899.87	0.23	-10.95	11.41	196.22
2925	0.15	218.54	-11.00	-3.23	2924.87	0.09	-11.00	11.47	196.36
2950	0.13	222.98	-11.05	-3.27	2949.87	0.08	-11.05	11.52	196.49
2975	0.11	218.92	-11.09	-3.30	2974.87	0.07	-11.09	11.57	196.60
3000	0.11	212.53	-11.13	-3.33	2999.87	0.05	-11.13	11.61	196.68
3025	0.12	211.65	-11.17	-3.36	3024.87	0.03	-11.17	11.66	196.74
3050	0.12	228.22	-11.21	-3.39	3049.87	0.14	-11.21	11.71	196.84
3075	0.13	219.92	-11.25	-3.43	3074.87	0.08	-11.25	11.76	196.96
3100	0.16	216.01	-11.30	-3.47	3099.87	0.15	-11.30	11.82	197.07
3125	0.14	222.18	-11.35	-3.51	3124.87	0.11	-11.35	11.88	197.19
3150	0.17	232.02	-11.39	-3.56	3149.87	0.15	-11.39	11.94	197.35
3175	0.12	227.63	-11.43	-3.61	3174.87	0.20	-11.43	11.99	197.51
3200	0.18	235.84	-11.47	-3.66	3199.87	0.27	-11.47	12.04	197.69
3225	0.29	209.81	-11.55	-3.72	3224.87	0.59	-11.55	12.14	197.87
3250	0.32	204.74	-11.67	-3.78	3249.87	0.18	-11.67	12.27	197.97
3275	0.33	202.91	-11.80	-3.84	3274.87	0.06	-11.80	12.41	198.03
3300	0.33	205.57	-11.93	-3.90	3299.87	0.07	-11.93	12.55	198.10
3325	0.30	213.50	-12.05	-3.97	3324.87	0.21	-12.05	12.69	198.22
3350	0.40	220.72	-12.17	-4.06	3349.87	0.44	-12.17	12.83	198.45
3375	0.53	213.44	-12.33	-4.18	3374.87	0.56	-12.33	13.02	198.72
3400	0.55	209.60	-12.53	-4.30	3399.87	0.18	-12.53	13.25	198.95

3425	0.57	207.65	-12.75	-4.42	3424.87	0.11	-12.75	13.49	199.12
3450	0.64	200.48	-12.99	-4.53	3449.86	0.42	-12.99	13.76	199.21
3475	0.76	195.25	-13.28	-4.62	3474.86	0.52	-13.28	14.06	199.18
3500	0.91	202.01	-13.62	-4.74	3499.86	0.73	-13.62	14.42	199.17
3525	0.96	206.66	-14.00	-4.91	3524.86	0.37	-14.00	14.83	199.32
3550	1.00	212.83	-14.37	-5.12	3549.85	0.46	-14.37	15.25	199.61
3575	1.06	222.57	-14.72	-5.39	3574.85	0.73	-14.72	15.68	200.12
3600	1.11	229.73	-15.05	-5.74	3599.84	0.58	-15.05	16.10	200.86
3625	1.18	231.25	-15.37	-6.12	3624.84	0.31	-15.37	16.54	201.72
3650	1.18	233.73	-15.68	-6.53	3649.83	0.21	-15.68	16.99	202.61
3675	1.21	235.35	-15.98	-6.95	3674.83	0.19	-15.98	17.43	203.52
3700	1.19	234.91	-16.28	-7.38	3699.82	0.08	-16.28	17.88	204.40
3725	1.12	241.40	-16.55	-7.81	3724.82	0.61	-16.55	18.30	205.27
3750	1.20	242.70	-16.78	-8.26	3749.81	0.34	-16.78	18.71	206.19
3775	1.26	241.83	-17.03	-8.73	3774.81	0.27	-17.03	19.14	207.14
3800	1.27	239.05	-17.31	-9.21	3799.80	0.25	-17.31	19.61	208.03
3825	1.26	236.51	-17.60	-9.68	3824.80	0.23	-17.60	20.09	208.81
3850	1.27	237.41	-17.90	-10.15	3849.79	0.09	-17.90	20.58	209.54
3875	1.25	233.57	-18.22	-10.60	3874.78	0.35	-18.22	21.08	210.19
3900	1.20	223.21	-18.57	-11.00	3899.78	0.91	-18.57	21.58	210.64
3925	1.17	224.87	-18.94	-11.36	3924.77	0.17	-18.94	22.08	210.95
3950	1.18	220.67	-19.32	-11.71	3949.77	0.35	-19.32	22.59	211.21
3975	1.19	216.05	-19.72	-12.03	3974.76	0.39	-19.72	23.10	211.37
4000	1.22	213.83	-20.15	-12.33	3999.76	0.21	-20.15	23.62	211.45
4025	1.22	214.27	-20.59	-12.63	4024.75	0.04	-20.59	24.16	211.51
4050	1.21	208.94	-21.04	-12.90	4049.74	0.45	-21.04	24.69	211.51
4075	1.24	207.91	-21.51	-13.16	4074.74	0.14	-21.51	25.22	211.45
4100	1.22	208.41	-21.99	-13.41	4099.73	0.09	-21.99	25.75	211.38
4125	1.17	206.65	-22.45	-13.65	4124.73	0.23	-22.45	26.27	211.30
4150	1.02	208.37	-22.87	-13.87	4149.72	0.61	-22.87	26.75	211.23
4175	1.12	208.37	-23.28	-14.09	4174.72	0.39	-23.28	27.21	211.19
4200	1.13	209.53	-23.71	-14.33	4199.71	0.11	-23.71	27.70	211.15
4225	1.20	207.72	-24.16	-14.57	4224.71	0.30	-24.16	28.21	211.10
4250	1.22	205.04	-24.63	-14.81	4249.70	0.24	-24.63	28.74	211.01
4275	1.21	206.36	-25.10	-15.03	4274.70	0.12	-25.10	29.26	210.92
4300	1.23	205.66	-25.58	-15.27	4299.69	0.11	-25.58	29.79	210.83
4325	1.26	201.65	-26.08	-15.49	4324.69	0.37	-26.08	30.33	210.70
4350	1.22	202.49	-26.58	-15.69	4349.68	0.15	-26.58	30.86	210.55
4375	1.25	202.80	-27.08	-15.90	4374.67	0.12	-27.08	31.40	210.41
4400	1.24	201.28	-27.58	-16.10	4399.67	0.15	-27.58	31.94	210.27
4425	1.24	199.58	-28.09	-16.29	4424.66	0.15	-28.09	32.47	210.11
4450	1.23	194.81	-28.60	-16.45	4449.66	0.41	-28.60	33.00	209.90
4475	1.26	190.87	-29.14	-16.57	4474.65	0.37	-29.14	33.52	209.63
4500	1.27	189.86	-29.68	-16.67	4499.64	0.09	-29.68	34.04	209.32
4525	1.27	188.89	-30.23	-16.76	4524.64	0.09	-30.23	34.56	209.01
4550	1.31	188.75	-30.78	-16.85	4549.63	0.15	-30.78	35.09	208.69
4575	1.36	183.21	-31.36	-16.91	4574.63	0.55	-31.36	35.63	208.33

4600	1.45	179.47	-31.97	-16.92	4599.62	0.52	-31.97	36.17	207.89
4625	1.44	176.99	-32.60	-16.90	4624.61	0.25	-32.60	36.72	207.40
4650	1.39	171.20	-33.22	-16.84	4649.60	0.61	-33.22	37.24	206.88
4675	1.37	177.10	-33.82	-16.78	4674.60	0.58	-33.82	37.75	206.38
4700	1.45	175.24	-34.43	-16.73	4699.59	0.36	-34.43	38.28	205.92
4725	1.46	173.06	-35.06	-16.67	4724.58	0.22	-35.06	38.82	205.43
4750	1.49	172.62	-35.70	-16.59	4749.57	0.14	-35.70	39.36	204.92
4775	1.53	168.42	-36.35	-16.48	4774.56	0.48	-36.35	39.91	204.39
4800	1.60	168.19	-37.02	-16.34	4799.55	0.25	-37.02	40.46	203.82
4825	1.62	168.44	-37.70	-16.20	4824.54	0.10	-37.70	41.04	203.25
4850	1.62	169.24	-38.40	-16.06	4849.53	0.09	-38.40	41.62	202.70
4875	1.64	171.60	-39.10	-15.95	4874.52	0.28	-39.10	42.22	202.19
4900	1.65	168.28	-39.80	-15.82	4899.51	0.39	-39.80	42.83	201.68
4925	1.56	164.22	-40.48	-15.65	4924.50	0.59	-40.48	43.40	201.14
4950	1.55	172.07	-41.14	-15.52	4949.49	0.85	-41.14	43.97	200.66
4975	1.61	171.86	-41.83	-15.42	4974.48	0.23	-41.83	44.58	200.24
5000	1.63	172.25	-42.52	-15.32	4999.47	0.08	-42.52	45.20	199.81
5025	1.64	171.79	-43.23	-15.22	5024.46	0.09	-43.23	45.83	199.40
5050	1.67	172.60	-43.95	-15.12	5049.45	0.15	-43.95	46.48	198.99
5075	1.70	174.21	-44.68	-15.04	5074.44	0.22	-44.68	47.14	198.60
5100	1.71	174.95	-45.42	-14.97	5099.43	0.10	-45.42	47.82	198.24
5125	1.75	175.45	-46.17	-14.91	5124.42	0.18	-46.17	48.52	197.89
5150	1.80	178.38	-46.95	-14.86	5149.41	0.41	-46.95	49.24	197.57
5175	1.89	183.42	-47.75	-14.88	5174.40	0.74	-47.75	50.02	197.31
5200	1.98	190.24	-48.59	-14.98	5199.38	0.99	-48.59	50.84	197.13
5225	2.09	195.09	-49.45	-15.18	5224.37	0.82	-49.45	51.73	197.06
5250	2.14	202.21	-50.33	-15.47	5249.35	1.07	-50.33	52.65	197.09
5275	2.23	206.39	-51.19	-15.86	5274.33	0.73	-51.19	53.60	197.22
5300	2.29	208.86	-52.07	-16.32	5299.31	0.45	-52.07	54.56	197.40
5325	2.16	208.64	-52.92	-16.79	5324.29	0.52	-52.92	55.52	197.60
5350	1.79	205.10	-53.69	-17.18	5349.28	1.55	-53.69	56.37	197.74
5375	1.44	211.77	-54.31	-17.51	5374.27	1.61	-54.31	57.06	197.87
5400	1.35	215.91	-54.81	-17.85	5399.26	0.53	-54.81	57.64	198.04
5425	1.36	216.59	-55.29	-18.20	5424.25	0.08	-55.29	58.21	198.22
5450	1.40	218.57	-55.76	-18.56	5449.25	0.24	-55.76	58.77	198.41
5475	1.49	217.31	-56.26	-18.95	5474.24	0.39	-56.26	59.37	198.61
5500	1.55	214.01	-56.80	-19.34	5499.23	0.44	-56.80	60.00	198.80
5525	1.56	212.74	-57.37	-19.71	5524.22	0.15	-57.37	60.66	198.96
5550	1.53	210.80	-57.94	-20.07	5549.21	0.25	-57.94	61.32	199.10
5575	1.46	205.65	-58.52	-20.37	5574.20	0.61	-58.52	61.96	199.20
5600	1.36	202.87	-59.08	-20.63	5599.19	0.47	-59.08	62.57	199.25
5625	1.31	203.00	-59.61	-20.85	5624.19	0.22	-59.61	63.15	199.28
5650	1.27	203.43	-60.13	-21.08	5649.18	0.13	-60.13	63.72	199.32
5675	1.30	203.69	-60.64	-21.30	5674.18	0.09	-60.64	64.28	199.35
5700	1.38	204.74	-61.17	-21.54	5699.17	0.33	-61.17	64.86	199.40
5725	1.56	205.80	-61.75	-21.81	5724.16	0.75	-61.75	65.49	199.46
5750	1.95	206.06	-62.44	-22.15	5749.15	1.56	-62.44	66.25	199.53

5775	2.23	205.71	-63.26	-22.55	5774.13	1.14	-63.26	67.16	199.62
5800	2.35	201.12	-64.18	-22.94	5799.11	0.87	-64.18	68.16	199.67
5825	2.45	198.33	-65.16	-23.29	5824.09	0.61	-65.16	69.20	199.67
5850	2.44	192.45	-66.19	-23.58	5849.07	1.00	-66.19	70.26	199.61
5875	2.50	187.60	-67.25	-23.76	5874.04	0.87	-67.25	71.33	199.46
5900	2.58	181.83	-68.36	-23.85	5899.02	1.06	-68.36	72.40	199.24
5925	2.63	177.99	-69.49	-23.85	5923.99	0.73	-69.49	73.47	198.94
5950	2.64	177.66	-70.64	-23.81	5948.97	0.08	-70.64	74.55	198.63
5975	2.63	177.85	-71.79	-23.76	5973.94	0.06	-71.79	75.62	198.32
6000	2.51	178.46	-72.91	-23.73	5998.92	0.50	-72.91	76.67	198.03
6025	2.23	183.39	-73.94	-23.74	6023.89	1.39	-73.94	77.66	197.80
6050	1.81	186.54	-74.82	-23.82	6048.88	1.71	-74.82	78.52	197.66
6075	1.32	186.05	-75.50	-23.89	6073.87	1.98	-75.50	79.19	197.56
6100	1.16	187.94	-76.04	-23.96	6098.86	0.68	-76.04	79.72	197.49
6125	1.12	188.01	-76.53	-24.02	6123.86	0.13	-76.53	80.21	197.43
6150	1.15	192.12	-77.02	-24.11	6148.85	0.34	-77.02	80.70	197.38
6175	1.12	194.95	-77.50	-24.23	6173.85	0.25	-77.50	81.20	197.36
6200	1.10	199.99	-77.96	-24.37	6198.84	0.40	-77.96	81.68	197.36
6225	1.12	199.87	-78.41	-24.54	6223.84	0.08	-78.41	82.16	197.38
6250	1.17	199.14	-78.88	-24.70	6248.83	0.21	-78.88	82.66	197.39
6275	1.23	204.81	-79.37	-24.90	6273.83	0.53	-79.37	83.18	197.42
6300	1.32	215.19	-79.84	-25.18	6298.82	0.99	-79.84	83.72	197.50
6325	1.38	217.69	-80.32	-25.53	6323.82	0.35	-80.32	84.28	197.63
6350	1.42	220.22	-80.79	-25.91	6348.81	0.30	-80.79	84.85	197.78
6375	1.46	222.24	-81.27	-26.33	6373.80	0.26	-81.27	85.42	197.95
6400	1.50	221.95	-81.75	-26.76	6398.79	0.14	-81.75	86.01	198.13
6425	1.54	225.74	-82.22	-27.22	6423.78	0.43	-82.22	86.61	198.32
6450	1.58	228.94	-82.68	-27.72	6448.77	0.40	-82.68	87.20	198.53
6475	1.54	230.74	-83.12	-28.24	6473.76	0.26	-83.12	87.79	198.76
6500	1.43	233.20	-83.52	-28.75	6498.76	0.50	-83.52	88.33	198.99
6525	1.32	235.12	-83.87	-29.23	6523.75	0.47	-83.87	88.82	199.22
6550	1.27	235.54	-84.20	-29.70	6548.74	0.22	-84.20	89.28	199.43
6575	1.24	233.75	-84.51	-30.15	6573.74	0.20	-84.51	89.73	199.63
6600	1.19	233.29	-84.83	-30.57	6598.73	0.21	-84.83	90.17	199.82
6625	1.20	230.99	-85.15	-30.98	6623.73	0.20	-85.15	90.61	199.99
6650	1.28	229.94	-85.49	-31.40	6648.72	0.34	-85.49	91.07	200.17
6675	1.38	226.00	-85.88	-31.83	6673.71	0.54	-85.88	91.59	200.34
6700	1.56	222.40	-86.34	-32.28	6698.70	0.81	-86.34	92.18	200.50
6725	1.61	223.11	-86.85	-32.74	6723.70	0.21	-86.85	92.81	200.66
6750	1.48	219.82	-87.35	-33.19	6748.69	0.62	-87.35	93.45	200.81
6775	1.09	214.60	-87.80	-33.53	6773.68	1.65	-87.80	93.98	200.90
6800	0.64	202.27	-88.12	-33.72	6798.68	1.93	-88.12	94.35	200.94
6825	0.57	171.15	-88.37	-33.75	6823.68	1.32	-88.37	94.60	200.91
6850	0.73	143.82	-88.62	-33.64	6848.67	1.37	-88.62	94.79	200.79
6875	0.96	133.08	-88.89	-33.40	6873.67	1.13	-88.89	94.96	200.59
6900	1.21	125.24	-89.19	-33.03	6898.67	1.14	-89.19	95.11	200.32
6925	1.33	126.89	-89.51	-32.58	6923.66	0.51	-89.51	95.26	200.00

6950	1.55	123.53	-89.87	-32.07	6948.65	0.95	-89.87	95.42	199.64
6975	1.81	121.44	-90.27	-31.45	6973.64	1.06	-90.27	95.59	199.21
7000	1.99	120.48	-90.69	-30.74	6998.63	0.73	-90.69	95.76	198.72
7025	1.97	118.25	-91.12	-29.99	7023.61	0.32	-91.12	95.92	198.22
7050	1.71	115.10	-91.48	-29.27	7048.60	1.13	-91.48	96.05	197.74
7075	1.26	108.04	-91.72	-28.67	7073.59	1.93	-91.72	96.10	197.36
7100	1.09	106.78	-91.87	-28.19	7098.59	0.69	-91.87	96.10	197.06
7125	1.09	102.03	-91.99	-27.72	7123.58	0.36	-91.99	96.08	196.77
7150	1.10	104.80	-92.10	-27.26	7148.58	0.21	-92.10	96.05	196.49
7175	1.15	104.73	-92.23	-26.79	7173.57	0.21	-92.23	96.04	196.19
7200	1.21	108.86	-92.38	-26.29	7198.57	0.42	-92.38	96.04	195.89
7225	1.35	115.36	-92.59	-25.78	7223.56	0.80	-92.59	96.11	195.56
7250	1.45	112.36	-92.83	-25.22	7248.55	0.51	-92.83	96.20	195.20
7275	1.45	113.76	-93.08	-24.64	7273.55	0.14	-93.08	96.29	194.82
7300	1.51	115.66	-93.35	-24.05	7298.54	0.31	-93.35	96.40	194.45
7325	1.52	117.39	-93.65	-23.46	7323.53	0.19	-93.65	96.54	194.06
7350	1.57	119.31	-93.97	-22.87	7348.52	0.31	-93.97	96.71	193.68
7375	1.60	122.72	-94.32	-22.27	7373.51	0.40	-94.32	96.92	193.29
7400	1.63	125.05	-94.72	-21.69	7398.50	0.28	-94.72	97.17	192.90
7425	1.69	126.08	-95.14	-21.10	7423.49	0.28	-95.14	97.45	192.50
7450	1.69	128.53	-95.59	-20.51	7448.48	0.29	-95.59	97.76	192.11
7475	1.69	130.58	-96.05	-19.94	7473.47	0.24	-96.05	98.10	191.73
7500	1.66	131.63	-96.53	-19.39	7498.46	0.16	-96.53	98.46	191.36
7525	1.60	132.62	-97.01	-18.87	7523.45	0.25	-97.01	98.83	191.01
7550	1.53	132.89	-97.48	-18.36	7548.44	0.29	-97.48	99.19	190.67
7575	1.45	128.33	-97.90	-17.87	7573.43	0.58	-97.90	99.52	190.34
7600	1.39	122.46	-98.26	-17.37	7598.42	0.63	-98.26	99.78	190.02
7625	1.40	119.13	-98.57	-16.84	7623.41	0.33	-98.57	100.00	189.70
7650	1.41	117.17	-98.86	-16.30	7648.41	0.20	-98.86	100.19	189.37
7675	1.47	114.85	-99.13	-15.74	7673.40	0.32	-99.13	100.38	189.02
7700	1.53	117.12	-99.42	-15.15	7698.39	0.36	-99.42	100.57	188.67
7725	1.57	115.58	-99.72	-14.54	7723.38	0.24	-99.72	100.78	188.30
7750	1.64	118.01	-100.04	-13.92	7748.37	0.37	-100.04	101.00	187.92
7775	1.66	120.04	-100.39	-13.29	7773.36	0.24	-100.39	101.26	187.54
7800	1.66	121.53	-100.76	-12.67	7798.35	0.17	-100.76	101.55	187.17
7825	1.68	123.80	-101.15	-12.06	7823.34	0.27	-101.15	101.86	186.80
7850	1.70	125.73	-101.57	-11.45	7848.33	0.24	-101.57	102.21	186.43
7875	1.72	128.02	-102.02	-10.86	7873.32	0.29	-102.02	102.59	186.07
7900	1.73	130.35	-102.49	-10.27	7898.31	0.28	-102.49	103.00	185.72
7925	1.66	131.60	-102.98	-9.72	7923.30	0.33	-102.98	103.43	185.39
7950	1.52	135.09	-103.45	-9.21	7948.29	0.66	-103.45	103.86	185.09
7975	1.45	135.54	-103.91	-8.76	7973.28	0.29	-103.91	104.28	184.82
8000	1.34	140.40	-104.36	-8.35	7998.27	0.65	-104.36	104.70	184.57
8025	1.30	142.64	-104.81	-7.99	8023.26	0.26	-104.81	105.12	184.36
8050	1.31	143.85	-105.27	-7.65	8048.26	0.12	-105.27	105.55	184.16
8075	1.35	143.19	-105.74	-7.30	8073.25	0.15	-105.74	105.99	183.95
8100	1.33	143.75	-106.21	-6.95	8098.24	0.07	-106.21	106.43	183.75

8125	1.25	145.21	-106.67	-6.63	8123.24	0.37	-106.67	106.87	183.55
8150	1.26	144.64	-107.11	-6.31	8148.23	0.08	-107.11	107.30	183.37
8175	1.29	143.63	-107.56	-5.99	8173.23	0.13	-107.56	107.73	183.19
8200	1.34	142.06	-108.02	-5.64	8198.22	0.28	-108.02	108.17	182.99
8225	1.41	141.68	-108.49	-5.27	8223.21	0.27	-108.49	108.62	182.78
8250	1.43	141.23	-108.98	-4.88	8248.20	0.07	-108.98	109.09	182.56
8275	1.43	139.54	-109.46	-4.48	8273.20	0.17	-109.46	109.55	182.35
8300	1.45	139.30	-109.93	-4.08	8298.19	0.07	-109.93	110.01	182.12
8325	1.45	139.24	-110.41	-3.67	8323.18	0.01	-110.41	110.47	181.90
8350	1.50	140.08	-110.90	-3.25	8348.17	0.23	-110.90	110.95	181.68
8375	1.52	140.76	-111.41	-2.83	8373.16	0.12	-111.41	111.45	181.45
8400	1.51	140.60	-111.92	-2.41	8398.15	0.04	-111.92	111.95	181.23
8425	1.53	143.22	-112.45	-2.00	8423.15	0.29	-112.45	112.46	181.02
8450	1.50	147.03	-112.99	-1.62	8448.14	0.43	-112.99	113.00	180.82
8475	1.43	148.89	-113.53	-1.28	8473.13	0.32	-113.53	113.54	180.65
8500	1.39	154.55	-114.07	-0.99	8498.12	0.59	-114.07	114.07	180.50
8525	1.40	160.12	-114.63	-0.76	8523.11	0.54	-114.63	114.63	180.38
8550	1.17	166.40	-115.16	-0.59	8548.11	1.07	-115.16	115.17	180.30
8575	0.94	197.95	-115.61	-0.60	8573.10	2.46	-115.61	115.61	180.30
8600	0.95	203.67	-115.99	-0.74	8598.10	0.38	-115.99	115.99	180.37
8625	1.02	207.04	-116.38	-0.93	8623.10	0.36	-116.38	116.38	180.46
8650	1.10	209.93	-116.78	-1.15	8648.09	0.40	-116.78	116.79	180.56
8675	1.17	210.84	-117.21	-1.40	8673.09	0.28	-117.21	117.22	180.68
8700	1.24	213.07	-117.65	-1.68	8698.08	0.36	-117.65	117.67	180.82
8725	1.32	214.69	-118.12	-1.99	8723.08	0.34	-118.12	118.14	180.96
8750	1.41	216.16	-118.60	-2.33	8748.07	0.36	-118.60	118.63	181.13
8775	1.47	216.56	-119.11	-2.71	8773.06	0.25	-119.11	119.14	181.30
8800	1.49	214.92	-119.63	-3.08	8798.05	0.20	-119.63	119.67	181.48
8825	1.53	215.08	-120.17	-3.46	8823.04	0.16	-120.17	120.22	181.65
8850	1.55	214.31	-120.73	-3.84	8848.03	0.12	-120.73	120.79	181.82
8875	1.59	214.98	-121.29	-4.23	8873.03	0.18	-121.29	121.37	182.00
8900	1.62	213.51	-121.87	-4.63	8898.02	0.20	-121.87	121.96	182.18
8925	1.66	212.50	-122.47	-5.02	8923.00	0.19	-122.47	122.58	182.35
8950	1.68	213.82	-123.08	-5.42	8947.99	0.17	-123.08	123.20	182.52
8975	1.66	216.00	-123.68	-5.84	8972.98	0.26	-123.68	123.82	182.70
9000	1.68	217.51	-124.27	-6.27	8997.97	0.18	-124.27	124.43	182.89
9025	1.58	213.29	-124.85	-6.69	9022.96	0.61	-124.85	125.02	183.07
9050	1.50	185.74	-125.46	-6.91	9047.95	2.95	-125.46	125.65	183.15
9075	1.61	183.46	-126.13	-6.96	9072.95	0.50	-126.13	126.33	183.16
9100	1.70	180.81	-126.85	-6.99	9097.93	0.48	-126.85	127.05	183.15
9125	1.74	181.05	-127.60	-7.00	9122.92	0.16	-127.60	127.80	183.14
9150	1.73	183.18	-128.36	-7.03	9147.91	0.26	-128.36	128.55	183.13
9175	1.76	182.40	-129.12	-7.06	9172.90	0.19	-129.12	129.31	183.13
9200	1.75	182.59	-129.89	-7.10	9197.89	0.07	-129.89	130.08	183.13
9225	1.61	181.41	-130.62	-7.12	9222.88	0.57	-130.62	130.81	183.12
9250	1.50	171.68	-131.29	-7.09	9247.87	1.14	-131.29	131.49	183.09
9275	1.55	163.42	-131.94	-6.94	9272.86	0.90	-131.94	132.13	183.01

9300	1.59	164.08	-132.60	-6.75	9297.85	0.19	-132.60	132.77	182.91
9325	1.62	164.90	-133.28	-6.56	9322.84	0.15	-133.28	133.44	182.82
9350	1.63	169.35	-133.97	-6.40	9347.83	0.51	-133.97	134.12	182.74
9375	1.66	174.32	-134.68	-6.30	9372.82	0.58	-134.68	134.83	182.68
9400	1.73	176.36	-135.42	-6.24	9397.81	0.36	-135.42	135.56	182.64
9425	1.80	179.98	-136.18	-6.22	9422.80	0.53	-136.18	136.33	182.61
9450	1.86	187.86	-136.98	-6.27	9447.78	1.04	-136.98	137.12	182.62
9475	1.90	191.76	-137.79	-6.41	9472.77	0.53	-137.79	137.94	182.67
9500	1.77	202.84	-138.55	-6.65	9497.76	1.51	-138.55	138.71	182.75
9525	0.96	237.54	-139.02	-6.97	9522.75	4.49	-139.02	139.19	182.87
9550	0.90	252.39	-139.19	-7.34	9547.75	0.99	-139.19	139.38	183.02
9575	0.90	248.93	-139.32	-7.71	9572.75	0.22	-139.32	139.53	183.17
9600	0.97	245.91	-139.48	-8.08	9597.74	0.36	-139.48	139.71	183.32
9625	1.01	243.10	-139.66	-8.47	9622.74	0.24	-139.66	139.92	183.47
9650	1.08	240.56	-139.88	-8.87	9647.73	0.35	-139.88	140.16	183.63
9675	1.16	236.91	-140.13	-9.29	9672.73	0.44	-140.13	140.44	183.79
9700	1.27	231.16	-140.44	-9.72	9697.72	0.64	-140.44	140.78	183.96
9725	1.40	222.02	-140.84	-10.14	9722.72	0.99	-140.84	141.21	184.12
9750	1.44	220.55	-141.31	-10.55	9747.71	0.21	-141.31	141.70	184.27
9775	1.45	220.05	-141.79	-10.95	9772.70	0.07	-141.79	142.21	184.42
9800	1.45	220.09	-142.27	-11.36	9797.69	0.01	-142.27	142.72	184.57
9825	1.48	220.65	-142.75	-11.77	9822.69	0.13	-142.75	143.24	184.71
9850	1.47	222.03	-143.24	-12.20	9847.68	0.14	-143.24	143.76	184.87
9875	1.47	221.96	-143.72	-12.63	9872.67	0.01	-143.72	144.27	185.02
9900	1.43	221.89	-144.19	-13.05	9897.66	0.16	-144.19	144.78	185.17
9925	1.35	226.63	-144.62	-13.47	9922.65	0.56	-144.62	145.25	185.32
9950	1.28	228.88	-145.01	-13.90	9947.65	0.36	-145.01	145.67	185.47
9975	1.25	230.71	-145.36	-14.32	9972.64	0.21	-145.36	146.07	185.63
10000	1.22	231.65	-145.70	-14.74	9997.63	0.14	-145.70	146.44	185.78
10025	1.14	225.50	-146.04	-15.12	10022.63	0.59	-146.04	146.82	185.91
10050	1.11	216.45	-146.41	-15.44	10047.62	0.72	-146.41	147.22	186.02
10075	1.09	212.11	-146.80	-15.71	10072.62	0.34	-146.80	147.64	186.11
10100	1.14	212.31	-147.21	-15.97	10097.62	0.16	-147.21	148.08	186.19
10125	1.12	211.27	-147.63	-16.23	10122.61	0.09	-147.63	148.52	186.27
10150	1.09	209.83	-148.05	-16.48	10147.61	0.17	-148.05	148.96	186.35
10175	1.07	208.90	-148.46	-16.71	10172.60	0.11	-148.46	149.40	186.42
10200	1.02	206.90	-148.86	-16.92	10197.60	0.26	-148.86	149.82	186.49
10225	0.98	206.42	-149.25	-17.12	10222.59	0.14	-149.25	150.23	186.54
10250	0.93	206.43	-149.63	-17.30	10247.59	0.22	-149.63	150.63	186.60
10275	0.90	205.57	-149.99	-17.48	10272.59	0.14	-149.99	151.00	186.65
10300	0.86	204.76	-150.33	-17.64	10297.58	0.14	-150.33	151.37	186.69
10325	0.83	205.47	-150.67	-17.80	10322.58	0.15	-150.67	151.72	186.74
10350	0.80	206.06	-150.99	-17.95	10347.58	0.11	-150.99	152.05	186.78
10375	0.77	204.11	-151.30	-18.10	10372.58	0.18	-151.30	152.38	186.82
10400	0.76	204.56	-151.60	-18.24	10397.57	0.04	-151.60	152.70	186.86
10425	0.77	203.18	-151.91	-18.37	10422.57	0.10	-151.91	153.02	186.90
10450	0.75	202.94	-152.21	-18.50	10447.57	0.08	-152.21	153.33	186.93

10475	0.77	203.47	-152.52	-18.63	10472.57	0.06	-152.52	153.65	186.96
10500	0.79	202.38	-152.83	-18.76	10497.57	0.10	-152.83	153.98	187.00
10525	0.77	202.15	-153.15	-18.89	10522.56	0.05	-153.15	154.31	187.03
10550	0.77	203.26	-153.46	-19.02	10547.56	0.06	-153.46	154.63	187.07
10575	0.79	204.01	-153.77	-19.16	10572.56	0.06	-153.77	154.96	187.10
10600	0.81	203.67	-154.09	-19.30	10597.56	0.11	-154.09	155.29	187.14
10625	0.86	202.08	-154.42	-19.44	10622.55	0.21	-154.42	155.64	187.18
10650	0.87	202.30	-154.77	-19.58	10647.55	0.03	-154.77	156.01	187.21
10675	0.84	203.50	-155.11	-19.73	10672.55	0.13	-155.11	156.36	187.25
10700	0.84	203.55	-155.45	-19.88	10697.54	0.02	-155.45	156.72	187.29
10725	0.80	205.87	-155.78	-20.03	10722.54	0.21	-155.78	157.06	187.33
10750	0.81	205.64	-156.09	-20.18	10747.54	0.03	-156.09	157.39	187.37
10775	0.81	211.26	-156.40	-20.35	10772.54	0.32	-156.40	157.72	187.41
10800	0.84	211.76	-156.71	-20.53	10797.53	0.14	-156.71	158.05	187.47
10825	0.84	211.40	-157.03	-20.73	10822.53	0.02	-157.03	158.39	187.52
10850	0.90	214.21	-157.34	-20.93	10847.53	0.29	-157.34	158.73	187.58
10875	0.92	211.62	-157.68	-21.15	10872.53	0.18	-157.68	159.09	187.64
10900	0.97	209.69	-158.03	-21.36	10897.52	0.24	-158.03	159.47	187.70
10925	0.98	208.80	-158.40	-21.56	10922.52	0.07	-158.40	159.86	187.75
10950	0.96	207.57	-158.77	-21.76	10947.52	0.10	-158.77	160.26	187.81
10975	0.93	205.23	-159.14	-21.95	10972.51	0.20	-159.14	160.65	187.85
11000	0.91	208.61	-159.50	-22.13	10997.51	0.23	-159.50	161.03	187.90
11025	0.92	212.26	-159.85	-22.33	11022.51	0.24	-159.85	161.40	187.95
11050	1.04	216.35	-160.20	-22.57	11047.50	0.53	-160.20	161.78	188.02
11075	1.10	210.17	-160.59	-22.83	11072.50	0.52	-160.59	162.20	188.09
11100	1.11	207.07	-161.01	-23.06	11097.49	0.24	-161.01	162.65	188.15
11125	1.08	204.97	-161.44	-23.27	11122.49	0.19	-161.44	163.11	188.20
11150	1.04	205.30	-161.86	-23.47	11147.48	0.19	-161.86	163.55	188.25
11175	0.99	206.98	-162.26	-23.66	11172.48	0.21	-162.26	163.97	188.30
11200	0.98	209.95	-162.64	-23.87	11197.48	0.21	-162.64	164.38	188.35
11225	0.98	213.75	-163.00	-24.09	11222.47	0.26	-163.00	164.77	188.41
11250	1.04	216.26	-163.36	-24.34	11247.47	0.30	-163.36	165.16	188.48
11275	1.11	215.46	-163.74	-24.62	11272.46	0.30	-163.74	165.58	188.55
11300	1.15	212.10	-164.15	-24.89	11297.46	0.30	-164.15	166.03	188.62
11325	1.14	209.86	-164.58	-25.15	11322.45	0.18	-164.58	166.49	188.69
11350	1.10	208.29	-165.01	-25.39	11347.45	0.21	-165.01	166.95	188.75
11375	1.14	210.02	-165.43	-25.63	11372.45	0.20	-165.43	167.41	188.81
11400	1.16	212.20	-165.86	-25.89	11397.44	0.20	-165.86	167.87	188.87
11425	1.25	214.35	-166.30	-26.18	11422.43	0.40	-166.30	168.35	188.94
11450	1.35	209.98	-166.78	-26.48	11447.43	0.56	-166.78	168.87	189.02
11475	1.30	205.32	-167.29	-26.74	11472.42	0.48	-167.29	169.42	189.08
11500	1.15	207.10	-167.77	-26.98	11497.42	0.61	-167.77	169.93	189.14
11525	1.09	206.94	-168.21	-27.20	11522.41	0.22	-168.21	170.39	189.19
11550	1.12	205.79	-168.64	-27.42	11547.41	0.14	-168.64	170.85	189.23
11575	1.18	201.38	-169.10	-27.62	11572.40	0.42	-169.10	171.34	189.27
11600	1.15	193.86	-169.58	-27.77	11597.40	0.62	-169.58	171.84	189.30
11625	1.06	183.84	-170.05	-27.84	11622.39	0.85	-170.05	172.32	189.30

11650	1.01	178.51	-170.50	-27.85	11647.39	0.43	-170.50	172.76	189.28
11675	1.02	179.79	-170.95	-27.85	11672.38	0.10	-170.95	173.20	189.25
11700	1.04	182.53	-171.40	-27.86	11697.38	0.21	-171.40	173.65	189.23
11725	1.05	178.31	-171.85	-27.86	11722.38	0.31	-171.85	174.10	189.21
11750	0.92	174.41	-172.28	-27.83	11747.37	0.62	-172.28	174.52	189.18
11775	0.77	181.11	-172.65	-27.82	11772.37	0.69	-172.65	174.88	189.15
11800	0.73	187.94	-172.98	-27.84	11797.37	0.39	-172.98	175.20	189.14
11825	0.72	180.80	-173.29	-27.87	11822.36	0.37	-173.29	175.52	189.14
11850	0.59	170.28	-173.58	-27.85	11847.36	0.70	-173.58	175.80	189.11
11875	0.44	179.52	-173.80	-27.82	11872.36	0.69	-173.80	176.01	189.10
11900	0.40	180.13	-173.98	-27.82	11897.36	0.16	-173.98	176.19	189.09
11925	0.27	172.15	-174.12	-27.82	11922.36	0.55	-174.12	176.33	189.08
11950	0.11	156.53	-174.20	-27.80	11947.36	0.64	-174.20	176.41	189.07
11975	0.15	226.23	-174.25	-27.81	11972.36	0.61	-174.25	176.46	189.07
12000	0.17	211.86	-174.30	-27.86	11997.36	0.19	-174.30	176.52	189.08
12025	0.07	147.88	-174.35	-27.87	12022.36	0.62	-174.35	176.56	189.08
12050	0.07	241.85	-174.37	-27.87	12047.36	0.44	-174.37	176.59	189.08
12075	0.23	241.15	-174.40	-27.93	12072.36	0.61	-174.40	176.63	189.10
12100	0.24	215.38	-174.47	-28.01	12097.36	0.42	-174.47	176.70	189.12
12125	0.20	218.77	-174.55	-28.06	12122.36	0.15	-174.55	176.79	189.13
12150	0.33	244.53	-174.61	-28.16	12147.36	0.67	-174.61	176.87	189.16
12175	0.44	225.73	-174.71	-28.29	12172.36	0.67	-174.71	176.98	189.20
12200	0.43	215.18	-174.85	-28.41	12197.36	0.32	-174.85	177.15	189.23
12225	0.43	225.81	-174.99	-28.53	12222.36	0.32	-174.99	177.31	189.26
12250	0.61	221.90	-175.16	-28.69	12247.36	0.72	-175.16	177.49	189.30
12275	0.59	211.71	-175.37	-28.85	12272.36	0.43	-175.37	177.73	189.34
12300	0.56	215.83	-175.58	-28.99	12297.35	0.20	-175.58	177.95	189.37
12325	0.76	223.06	-175.80	-29.17	12322.35	0.84	-175.80	178.20	189.42
12350	0.83	213.08	-176.07	-29.38	12347.35	0.63	-176.07	178.51	189.47
12375	0.75	209.67	-176.37	-29.56	12372.35	0.37	-176.37	178.83	189.52
12400	0.84	210.05	-176.67	-29.74	12397.35	0.37	-176.67	179.15	189.55
12425	0.92	200.78	-177.01	-29.90	12422.34	0.64	-177.01	179.52	189.59
12450	0.91	205.93	-177.38	-30.06	12447.34	0.33	-177.38	179.91	189.62
12475	1.11	208.12	-177.77	-30.26	12472.34	0.81	-177.77	180.33	189.66
12500	1.07	202.10	-178.20	-30.46	12497.33	0.48	-178.20	180.78	189.70
12525	1.12	210.99	-178.63	-30.67	12522.33	0.71	-178.63	181.24	189.74
12550	1.42	206.67	-179.11	-30.94	12547.32	1.23	-179.11	181.76	189.80
12575	1.49	207.88	-179.67	-31.23	12572.31	0.32	-179.67	182.37	189.86
12600	2.19	219.18	-180.33	-31.68	12597.30	3.14	-180.33	183.09	189.96
12625	3.11	217.06	-181.24	-32.39	12622.27	3.69	-181.24	184.11	190.13
12650	3.74	216.75	-182.44	-33.29	12647.23	2.53	-182.44	185.45	190.34
12675	4.23	221.87	-183.78	-34.39	12672.17	2.44	-183.78	186.97	190.60