



Company: **Centennial Resource Production**
 Well: **Tour Bus 23 State 506H**
 County: **Lea County**
 State: **New Mexico**
 Field: **Ojo Chiso; Bone Spring**
 API: **30-025-44615**
 Rig: **H&P 650**
 Service Co: **Gordon Technologies, LLC**
 Job #: **GT180187**
 Survey Calc: **Minimum Curvature**

Directional Survey Report

Well Surface Location
 Latitude: **32° 23' 1.0638" N**
 Longitude: **103° 26' 3.2244" W**
 Reference: **NAD 1983**
 Y (Northing) **504462.14**
 X (Easting) **818887.25**
 Field Engr: **Derik Richard**
Salim Timsar

Report Date **May 08 2018**
 Time: **19:05**
 Mag Reference: **True North**
 Mag Correction: **6.81**
 Vert Sect. Azi: **176.67**
 Perm Datum **Mean Sea Level**
 Depth Ref **Rotary Table**
 RKB Height: **25**
 GL Elev: **3475**

Survey	MD	Inc	Azimuth	TVD	VS	Rectangular Offsets		Closure		Course	DLS	Temp	Source
Tie In	0	0	0	0	0	NS	EW	Dist	Angle	Length	0	0	
1	25.00	0.00	360.00	25.00	0.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	GYRO SURVEYS.csv
2	143.00	0.30	197.83	143.00	0.29	-0.29	-0.09	0.30	197.24	118.00	0.25	0.00	GYRO SURVEYS.csv
3	203.00	0.40	281.83	203.00	0.38	-0.40	-0.35	0.53	221.19	60.00	0.79	0.00	GYRO SURVEYS.csv
4	233.00	0.50	199.83	233.00	0.47	-0.50	-0.49	0.70	224.42	30.00	1.98	0.00	GYRO SURVEYS.csv
5	261.00	0.70	152.83	261.00	0.74	-0.77	-0.46	0.90	210.85	28.00	1.83	0.00	GYRO SURVEYS.csv
6	294.00	0.90	179.83	293.99	1.18	-1.21	-0.37	1.27	197.00	33.00	1.28	0.00	GYRO SURVEYS.csv
7	325.00	0.40	231.83	324.99	1.49	-1.52	-0.45	1.59	196.49	31.00	2.34	0.00	GYRO SURVEYS.csv
8	357.00	0.20	187.83	356.99	1.61	-1.64	-0.54	1.73	198.23	32.00	0.91	0.00	GYRO SURVEYS.csv
9	388.00	0.50	187.83	387.99	1.79	-1.83	-0.57	1.92	197.30	31.00	0.97	0.00	GYRO SURVEYS.csv
10	420.00	0.50	225.83	419.99	2.02	-2.07	-0.69	2.18	198.43	32.00	1.02	0.00	GYRO SURVEYS.csv
11	451.00	0.10	160.83	450.99	2.14	-2.19	-0.78	2.32	199.60	31.00	1.51	0.00	GYRO SURVEYS.csv
12	483.00	0.20	151.83	482.99	2.21	-2.26	-0.74	2.38	198.13	32.00	0.32	0.00	GYRO SURVEYS.csv
13	514.00	0.30	213.83	513.99	2.33	-2.38	-0.76	2.50	197.71	31.00	0.88	0.00	GYRO SURVEYS.csv
14	545.00	0.40	208.83	544.99	2.48	-2.54	-0.86	2.68	198.71	31.00	0.34	0.00	GYRO SURVEYS.csv
15	577.00	0.20	297.83	576.99	2.55	-2.61	-0.96	2.78	200.19	32.00	1.39	0.00	GYRO SURVEYS.csv
16	608.00	0.40	311.83	607.99	2.45	-2.51	-1.09	2.74	203.47	31.00	0.68	0.00	GYRO SURVEYS.csv
17	640.00	0.50	194.83	639.99	2.50	-2.57	-1.21	2.84	205.21	32.00	2.40	0.00	GYRO SURVEYS.csv
18	671.00	0.60	212.83	670.99	2.76	-2.84	-1.33	3.14	205.09	31.00	0.64	0.00	GYRO SURVEYS.csv
19	703.00	0.40	297.83	702.98	2.84	-2.93	-1.52	3.30	207.42	32.00	2.16	0.00	GYRO SURVEYS.csv
20	765.00	0.50	220.83	764.98	2.92	-3.03	-1.89	3.57	211.95	62.00	0.91	0.00	GYRO SURVEYS.csv
21	797.00	0.30	281.83	796.98	3.00	-3.12	-2.06	3.74	213.44	32.00	1.38	0.00	GYRO SURVEYS.csv

22	828.00	0.60	228.83	827.98	3.07	-3.21	-2.27	3.93	215.27	31.00	1.56	0.00	GYRO SURVEYS.csv
23	891.00	0.50	353.83	890.98	3.00	-3.16	-2.54	4.05	218.79	63.00	1.55	0.00	GYRO SURVEYS.csv
24	923.00	0.20	3.83	922.98	2.81	-2.96	-2.55	3.91	220.74	32.00	0.95	0.00	GYRO SURVEYS.csv
25	954.00	0.60	291.83	953.98	2.68	-2.85	-2.70	3.93	223.45	31.00	1.84	0.00	GYRO SURVEYS.csv
26	986.00	0.80	288.83	985.98	2.53	-2.71	-3.07	4.09	228.56	32.00	0.64	0.00	GYRO SURVEYS.csv
27	1080.00	0.50	259.83	1079.97	2.33	-2.57	-4.09	4.83	237.86	94.00	0.46	0.00	GYRO SURVEYS.csv
28	1112.00	1.20	260.83	1111.97	2.38	-2.65	-4.56	5.27	239.84	32.00	2.19	0.00	GYRO SURVEYS.csv
29	1175.00	1.00	266.83	1174.96	2.45	-2.79	-5.76	6.40	244.16	63.00	0.37	0.00	GYRO SURVEYS.csv
30	1206.00	0.90	258.83	1205.95	2.48	-2.85	-6.27	6.89	245.56	31.00	0.54	0.00	GYRO SURVEYS.csv
31	1237.00	0.30	218.83	1236.95	2.57	-2.96	-6.56	7.20	245.71	31.00	2.25	0.00	GYRO SURVEYS.csv
32	1269.00	1.10	286.83	1268.95	2.53	-2.94	-6.91	7.51	246.95	32.00	3.21	0.00	GYRO SURVEYS.csv
33	1300.00	1.00	308.83	1299.94	2.24	-2.68	-7.40	7.87	250.09	31.00	1.33	0.00	GYRO SURVEYS.csv
34	1324.00	1.00	288.83	1323.94	2.03	-2.48	-7.76	8.15	252.28	24.00	1.45	0.00	GYRO SURVEYS.csv
35	1363.00	0.70	274.83	1362.93	1.86	-2.35	-8.32	8.65	254.23	39.00	0.93	0.00	GYRO SURVEYS.csv
36	1395.00	0.80	257.83	1394.93	1.87	-2.38	-8.74	9.06	254.77	32.00	0.76	0.00	GYRO SURVEYS.csv
37	1426.00	1.00	287.83	1425.93	1.81	-2.34	-9.21	9.50	255.74	31.00	1.63	0.00	GYRO SURVEYS.csv
38	1458.00	1.00	284.83	1457.92	1.62	-2.19	-9.74	9.98	257.33	32.00	0.16	0.00	GYRO SURVEYS.csv
39	1489.00	1.10	298.83	1488.92	1.37	-1.97	-10.26	10.45	259.13	31.00	0.89	0.00	GYRO SURVEYS.csv
40	1521.00	1.10	274.83	1520.91	1.17	-1.80	-10.84	10.99	260.57	32.00	1.43	0.00	GYRO SURVEYS.csv
41	1552.00	0.90	252.83	1551.91	1.18	-1.85	-11.37	11.52	260.76	31.00	1.38	0.00	GYRO SURVEYS.csv
42	1584.00	1.00	237.83	1583.90	1.38	-2.07	-11.84	12.02	260.08	32.00	0.83	0.00	GYRO SURVEYS.csv
43	1615.00	1.20	258.83	1614.90	1.55	-2.28	-12.39	12.60	259.57	31.00	1.44	0.00	GYRO SURVEYS.csv
44	1646.00	0.80	254.83	1645.89	1.64	-2.40	-12.92	13.14	259.48	31.00	1.31	0.00	GYRO SURVEYS.csv
45	1678.00	0.90	234.83	1677.89	1.82	-2.60	-13.34	13.59	258.97	32.00	0.97	0.00	GYRO SURVEYS.csv
46	1709.00	1.10	263.83	1708.88	1.96	-2.77	-13.84	14.11	258.68	31.00	1.73	0.00	GYRO SURVEYS.csv
47	1741.00	1.10	235.83	1740.88	2.14	-2.98	-14.39	14.70	258.30	32.00	1.66	0.00	GYRO SURVEYS.csv
48	1835.00	0.80	241.83	1834.87	2.87	-3.79	-15.72	16.17	256.45	94.00	0.34	0.00	GYRO SURVEYS.csv
49	1867.00	0.90	260.83	1866.86	2.99	-3.94	-16.16	16.63	256.30	32.00	0.93	0.00	GYRO SURVEYS.csv
50	1985.00	1.14	249.02	1984.84	3.44	-4.51	-18.18	18.73	256.07	118.00	0.27	77.71	MWD Run 1
51	2079.00	0.34	255.61	2078.83	3.78	-4.91	-19.32	19.93	255.74	94.00	0.85	84.86	MWD Run 1
52	2173.00	0.34	59.55	2172.83	3.71	-4.84	-19.35	19.95	255.96	94.00	0.72	92.00	MWD Run 1
53	2267.00	0.76	63.12	2266.83	3.33	-4.42	-18.55	19.07	256.60	94.00	0.45	92.00	MWD Run 1
54	2361.00	0.85	55.25	2360.82	2.72	-3.74	-17.42	17.82	257.88	94.00	0.15	92.00	MWD Run 1
55	2456.00	0.79	61.14	2455.81	2.07	-3.02	-16.27	16.55	259.48	95.00	0.11	99.14	MWD Run 1
56	2550.00	0.76	32.06	2549.80	1.28	-2.18	-15.37	15.52	261.93	94.00	0.42	99.14	MWD Run 1
57	2644.00	0.85	27.28	2643.79	0.17	-1.03	-14.72	14.76	266.00	94.00	0.12	99.14	MWD Run 1
58	2738.00	0.90	27.67	2737.78	-1.06	0.24	-14.06	14.06	270.98	94.00	0.05	106.29	MWD Run 1
59	2832.00	0.97	22.44	2831.77	-2.41	1.63	-13.41	13.51	276.93	94.00	0.12	106.29	MWD Run 1
60	2926.00	1.04	38.17	2925.76	-3.76	3.04	-12.58	12.94	283.59	94.00	0.30	106.29	MWD Run 1
61	3020.00	1.27	43.18	3019.74	-5.12	4.47	-11.34	12.19	291.51	94.00	0.27	113.43	MWD Run 1
62	3114.00	1.17	54.83	3113.72	-6.34	5.78	-9.84	11.41	300.43	94.00	0.28	113.43	MWD Run 1
63	3208.00	1.09	68.49	3207.70	-7.13	6.66	-8.23	10.59	308.98	94.00	0.30	113.43	MWD Run 1
64	3303.00	1.24	60.03	3302.68	-7.87	7.51	-6.50	9.93	319.12	95.00	0.24	113.43	MWD Run 1

65	3397.00	0.62	71.57	3396.66	-8.46	8.18	-5.13	9.66	327.91	94.00	0.69	120.57	MWD Run 1
66	3491.00	0.34	111.63	3490.66	-8.47	8.23	-4.39	9.33	331.92	94.00	0.45	120.57	MWD Run 1
67	3585.00	0.30	96.82	3584.66	-8.31	8.10	-3.89	8.99	334.35	94.00	0.10	113.43	MWD Run 1
68	3680.00	0.14	44.43	3679.66	-8.35	8.15	-3.56	8.89	336.40	95.00	0.25	120.57	MWD Run 1
69	3773.00	0.18	17.38	3772.66	-8.56	8.38	-3.44	9.06	337.68	93.00	0.09	120.57	MWD Run 1
70	3868.00	0.15	354.89	3867.66	-8.82	8.64	-3.40	9.28	338.52	95.00	0.07	120.57	MWD Run 1
71	3962.00	0.40	320.65	3961.66	-9.21	9.02	-3.62	9.72	338.13	94.00	0.31	120.57	MWD Run 1
72	4056.00	0.44	293.51	4055.66	-9.64	9.42	-4.16	10.30	336.17	94.00	0.21	120.57	MWD Run 1
73	4150.00	0.49	288.01	4149.65	-9.95	9.68	-4.87	10.84	333.29	94.00	0.07	120.57	MWD Run 1
74	4244.00	0.71	275.23	4243.65	-10.18	9.86	-5.84	11.46	329.36	94.00	0.27	70.57	MWD Run 1
75	4338.00	0.30	273.03	4337.64	-10.30	9.93	-6.66	11.96	326.15	94.00	0.44	77.71	MWD Run 1
76	4432.00	0.14	315.83	4431.64	-10.41	10.02	-6.99	12.22	325.10	94.00	0.23	77.71	MWD Run 1
77	4527.00	0.27	273.94	4526.64	-10.53	10.12	-7.29	12.47	324.23	95.00	0.20	77.71	MWD Run 1
78	4621.00	0.34	235.26	4620.64	-10.41	9.98	-7.74	12.63	322.20	94.00	0.23	77.71	MWD Run 1
79	4715.00	0.24	228.43	4714.64	-10.14	9.69	-8.12	12.64	320.04	94.00	0.11	70.57	MWD Run 1
80	4809.00	0.29	214.46	4808.64	-9.83	9.36	-8.40	12.58	318.09	94.00	0.09	70.57	MWD Run 1
81	4903.00	0.20	274.88	4902.64	-9.67	9.18	-8.70	12.65	316.54	94.00	0.28	70.57	MWD Run 1
82	4997.00	0.20	217.85	4996.64	-9.57	9.06	-8.96	12.74	315.32	94.00	0.20	70.57	MWD Run 1
83	5091.00	0.30	238.98	5090.64	-9.33	8.81	-9.27	12.79	313.54	94.00	0.14	77.71	MWD Run 1
84	5185.00	0.33	253.18	5184.63	-9.15	8.60	-9.74	12.99	311.44	94.00	0.09	77.71	MWD Run 1
85	5279.00	0.15	240.36	5278.63	-9.04	8.46	-10.11	13.18	309.92	94.00	0.20	77.71	MWD Run 1
86	5373.00	0.14	283.25	5372.63	-9.01	8.43	-10.33	13.33	309.22	94.00	0.11	77.71	MWD Run 1
87	5467.00	0.81	40.09	5466.63	-9.53	8.96	-10.01	13.43	311.83	94.00	0.94	77.71	MWD Run 1
88	5561.00	1.94	42.42	5560.60	-11.12	10.65	-8.51	13.63	321.37	94.00	1.20	77.71	MWD Run 1
89	5636.00	2.89	43.47	5635.53	-13.30	12.96	-6.36	14.44	333.86	75.00	1.27	77.71	MWD Run 1
90	5746.00	3.37	52.52	5745.37	-17.02	16.94	-1.88	17.04	353.67	110.00	0.62	99.14	MWD Run 2
91	5840.00	4.68	54.65	5839.14	-20.60	20.84	3.44	21.12	9.37	94.00	1.40	106.29	MWD Run 2
92	5934.00	6.96	58.10	5932.65	-25.36	26.06	11.40	28.44	23.63	94.00	2.45	113.43	MWD Run 2
93	6028.00	7.60	59.34	6025.89	-30.94	32.24	21.59	38.80	33.81	94.00	0.70	113.43	MWD Run 2
94	6122.00	7.47	55.97	6119.08	-36.91	38.83	32.00	50.32	39.49	94.00	0.49	120.57	MWD Run 2
95	6216.00	7.50	57.98	6212.28	-42.97	45.51	42.26	62.11	42.88	94.00	0.28	113.43	MWD Run 3
96	6310.00	7.68	57.54	6305.45	-48.98	52.13	52.76	74.17	45.34	94.00	0.20	113.43	MWD Run 3
97	6405.00	8.04	56.42	6399.56	-55.41	59.21	63.65	86.93	47.07	95.00	0.41	120.57	MWD Run 3
98	6499.00	7.73	53.35	6492.67	-62.20	66.62	74.20	99.72	48.08	94.00	0.56	120.57	MWD Run 3
99	6593.00	7.06	50.02	6585.89	-69.12	74.11	83.70	111.79	48.48	94.00	0.85	127.71	MWD Run 3
100	6687.00	6.40	51.92	6679.24	-75.55	81.05	92.25	122.80	48.70	94.00	0.74	127.71	MWD Run 3
101	6781.00	5.52	59.62	6772.73	-80.60	86.57	100.28	132.48	49.20	94.00	1.26	127.71	MWD Run 3
102	6875.00	5.04	61.36	6866.34	-84.42	90.83	107.80	140.96	49.88	94.00	0.54	127.71	MWD Run 3
103	6969.00	4.84	60.62	6959.99	-87.92	94.76	114.88	148.92	50.48	94.00	0.22	127.71	MWD Run 3
104	7063.00	4.92	58.83	7053.65	-91.55	98.79	121.78	156.81	50.95	94.00	0.18	127.71	MWD Run 3
105	7158.00	4.65	61.44	7148.31	-95.09	102.74	128.65	164.64	51.39	95.00	0.37	127.71	MWD Run 3
106	7252.00	4.67	58.74	7242.00	-98.51	106.55	135.27	172.19	51.77	94.00	0.23	127.71	MWD Run 3
107	7346.00	5.06	49.00	7335.67	-102.83	111.25	141.67	180.13	51.86	94.00	0.97	127.71	MWD Run 3

108	7440.00	4.95	45.63	7429.31	-108.03	116.81	147.70	188.31	51.66	94.00	0.33	127.71	MWD Run 3
109	7534.00	4.79	50.94	7522.97	-112.98	122.12	153.64	196.26	51.52	94.00	0.51	134.86	MWD Run 3
110	7628.00	4.47	48.29	7616.66	-117.55	127.03	159.43	203.85	51.45	94.00	0.41	134.86	MWD Run 3
111	7722.00	4.29	46.40	7710.39	-122.10	131.89	164.71	211.01	51.31	94.00	0.25	134.86	MWD Run 3
112	7816.00	4.97	44.87	7804.08	-127.08	137.20	170.12	218.55	51.11	94.00	0.74	134.86	MWD Run 3
113	7910.00	5.83	40.13	7897.66	-133.26	143.73	176.07	227.29	50.77	94.00	1.03	134.86	MWD Run 3
114	8004.00	5.65	39.19	7991.19	-140.14	150.97	182.08	236.53	50.34	94.00	0.22	134.86	MWD Run 3
115	8098.00	5.35	37.87	8084.76	-146.85	158.02	187.69	245.35	49.91	94.00	0.35	134.86	MWD Run 3
116	8192.00	5.93	38.41	8178.30	-153.77	165.28	193.40	254.40	49.48	94.00	0.62	134.86	MWD Run 3
117	8286.00	6.09	40.58	8271.79	-160.98	172.87	199.66	264.10	49.11	94.00	0.30	142.00	MWD Run 3
118	8380.00	5.65	39.81	8365.29	-167.95	180.21	205.86	273.59	48.80	94.00	0.48	142.00	MWD Run 3
119	8474.00	6.05	40.43	8458.80	-174.91	187.54	212.04	283.08	48.51	94.00	0.43	142.00	MWD Run 3
120	8569.00	6.17	49.49	8553.27	-181.61	194.67	219.17	293.14	48.39	95.00	1.02	142.00	MWD Run 3
121	8663.00	6.12	51.03	8646.73	-187.58	201.10	226.90	303.19	48.45	94.00	0.18	142.00	MWD Run 3
122	8757.00	5.01	50.34	8740.28	-192.93	206.87	233.96	312.30	48.52	94.00	1.18	142.00	MWD Run 3
123	8851.00	4.71	52.50	8833.94	-197.53	211.84	240.18	320.25	48.59	94.00	0.37	142.00	MWD Run 3
124	8945.00	4.78	48.28	8927.62	-202.13	216.80	246.17	328.03	48.63	94.00	0.38	142.00	MWD Run 3
125	9039.00	6.18	42.49	9021.19	-208.09	223.13	252.51	336.97	48.53	94.00	1.60	149.14	MWD Run 3
126	9133.00	6.22	37.46	9114.64	-215.47	230.91	259.02	347.00	48.28	94.00	0.58	149.14	MWD Run 3
127	9227.00	4.88	47.00	9208.20	-221.88	237.68	265.04	356.00	48.12	94.00	1.73	149.14	MWD Run 3
128	9322.00	4.78	47.55	9302.86	-226.96	243.10	270.92	364.00	48.10	95.00	0.12	149.14	MWD Run 3
129	9416.00	3.75	56.02	9396.60	-230.99	247.46	276.36	370.96	48.16	94.00	1.28	149.14	MWD Run 3
130	9510.00	2.08	46.48	9490.48	-233.66	250.36	280.14	375.71	48.21	94.00	1.84	149.14	MWD Run 3
131	9604.00	0.99	35.96	9584.44	-235.39	252.19	281.86	378.21	48.18	94.00	1.19	149.14	MWD Run 3
132	9698.00	0.60	17.62	9678.43	-236.48	253.32	282.48	379.43	48.12	94.00	0.49	149.14	MWD Run 3
133	9738.00	0.94	8.45	9718.43	-237.00	253.84	282.60	379.87	48.07	40.00	0.90	149.14	MWD Run 3
134	9811.00	0.55	219.22	9791.43	-237.32	254.16	282.46	379.97	48.02	73.00	1.97	127.71	MWD Run 4
135	9842.00	4.85	189.59	9822.39	-235.94	252.75	282.15	378.80	48.15	31.00	14.13	127.71	MWD Run 4
136	9873.00	9.08	192.99	9853.15	-232.31	249.08	281.38	375.79	48.48	31.00	13.70	127.71	MWD Run 4
137	9904.00	13.06	193.78	9883.57	-226.61	243.29	280.00	370.93	49.01	31.00	12.85	127.71	MWD Run 4
138	9951.00	18.57	184.77	9928.78	-214.12	230.66	278.11	361.32	50.33	47.00	12.80	127.71	MWD Run 4
139	9998.00	23.94	175.55	9972.58	-197.16	213.68	278.23	350.81	52.48	47.00	13.43	134.86	MWD Run 4
140	10045.00	31.27	176.86	10014.20	-175.39	191.96	279.64	339.19	55.53	47.00	15.65	134.86	MWD Run 4
141	10092.00	38.11	179.23	10052.82	-148.67	165.25	280.50	325.56	59.50	47.00	14.83	134.86	MWD Run 4
142	10139.00	41.38	180.23	10088.96	-118.67	135.20	280.63	311.50	64.28	47.00	7.09	134.86	MWD Run 4
143	10186.00	42.52	179.59	10123.91	-87.30	103.78	280.68	299.25	69.71	47.00	2.59	134.86	MWD Run 4
144	10233.00	43.81	178.70	10158.19	-55.18	71.64	281.17	290.15	75.71	47.00	3.03	134.86	MWD Run 4
145	10280.00	46.63	180.00	10191.30	-21.86	38.28	281.54	284.13	82.26	47.00	6.31	134.86	MWD Run 4
146	10327.00	50.20	180.76	10222.49	13.21	3.13	281.30	281.32	89.36	47.00	7.69	134.86	MWD Run 4
147	10374.00	55.24	180.16	10250.95	50.51	-34.25	281.00	283.08	96.95	47.00	10.77	134.86	MWD Run 4
148	10421.00	59.96	178.42	10276.12	90.14	-73.92	281.51	291.05	104.71	47.00	10.52	134.86	MWD Run 4
149	10468.00	62.70	178.29	10298.67	131.36	-115.13	282.69	305.24	112.16	47.00	5.83	134.86	MWD Run 4
150	10515.00	65.64	177.51	10319.15	173.65	-157.40	284.25	324.92	118.97	47.00	6.43	134.86	MWD Run 4

151	10562.00	69.38	177.35	10337.12	217.06	-200.78	286.19	349.60	125.05	47.00	7.96	134.86	MWD Run 4
152	10609.00	75.32	176.85	10351.37	261.83	-245.49	288.46	378.78	130.40	47.00	12.68	142.00	MWD Run 4
153	10656.00	80.37	177.38	10361.26	307.76	-291.36	290.77	411.63	135.06	47.00	10.80	142.00	MWD Run 4
154	10703.00	85.62	178.46	10366.99	354.38	-337.96	292.46	446.93	139.13	47.00	11.40	142.00	MWD Run 4
155	10733.00	87.98	178.75	10368.66	384.31	-367.90	293.19	470.44	141.45	30.00	7.93	142.00	MWD Run 4
156	10764.00	88.77	178.47	10369.54	415.28	-398.88	293.94	495.49	143.61	31.00	2.70	134.86	MWD Run 5
157	10859.00	88.88	179.77	10371.49	510.17	-493.85	295.40	575.46	149.11	95.00	1.37	134.86	MWD Run 5
158	10953.00	87.84	179.89	10374.18	603.99	-587.81	295.68	657.99	153.30	94.00	1.11	142.00	MWD Run 5
159	11047.00	89.05	177.63	10376.73	697.89	-681.75	297.71	743.92	156.41	94.00	2.73	142.00	MWD Run 5
160	11141.00	88.43	180.44	10378.80	791.77	-775.70	299.30	831.44	158.90	94.00	3.06	149.14	MWD Run 5
161	11235.00	86.72	180.69	10382.78	885.47	-869.61	298.37	919.37	161.06	94.00	1.84	149.14	MWD Run 5
162	11329.00	87.76	180.61	10387.30	979.13	-963.49	297.31	1008.32	162.85	94.00	1.11	149.14	MWD Run 5
163	11423.00	88.24	180.61	10390.58	1072.85	-1057.43	296.31	1098.16	164.35	94.00	0.51	149.14	MWD Run 5
164	11518.00	89.08	180.47	10392.81	1167.61	-1152.40	295.41	1189.66	165.62	95.00	0.90	149.14	MWD Run 5
165	11612.00	88.24	180.40	10395.00	1261.38	-1246.37	294.70	1280.74	166.70	94.00	0.90	149.14	MWD Run 5
166	11706.00	89.22	180.59	10397.09	1355.15	-1340.34	293.89	1372.18	167.63	94.00	1.06	149.14	MWD Run 5
167	11800.00	87.98	180.68	10399.38	1448.89	-1434.30	292.84	1463.89	168.46	94.00	1.32	149.14	MWD Run 5
168	11894.00	88.15	180.16	10402.56	1542.64	-1528.25	292.16	1555.93	169.18	94.00	0.58	149.14	MWD Run 5
169	11988.00	89.13	180.38	10404.79	1636.42	-1622.22	291.71	1648.24	169.81	94.00	1.07	156.29	MWD Run 5
170	12082.00	90.45	180.29	10405.13	1730.23	-1716.21	291.16	1740.73	170.37	94.00	1.41	156.29	MWD Run 5
171	12176.00	89.16	180.57	10405.45	1824.02	-1810.21	290.46	1833.37	170.88	94.00	1.40	156.29	MWD Run 5
172	12270.00	88.96	180.22	10407.00	1917.81	-1904.19	289.81	1926.12	171.35	94.00	0.43	156.29	MWD Run 5
173	12364.00	88.40	179.81	10409.16	2011.63	-1998.17	289.79	2019.07	171.75	94.00	0.74	156.29	MWD Run 5
174	12458.00	89.33	179.56	10411.02	2105.48	-2092.15	290.30	2112.19	172.10	94.00	1.02	156.29	MWD Run 5
175	12552.00	88.52	179.45	10412.79	2199.35	-2186.13	291.11	2205.43	172.41	94.00	0.87	156.29	MWD Run 5
176	12646.00	88.01	179.71	10415.63	2293.18	-2280.08	291.80	2298.68	172.71	94.00	0.61	156.29	MWD Run 5
177	12740.00	87.45	180.00	10419.36	2386.96	-2374.01	292.04	2391.91	172.99	94.00	0.67	156.29	MWD Run 5
178	12834.00	88.46	179.68	10422.71	2480.76	-2467.94	292.30	2485.19	173.25	94.00	1.13	163.43	MWD Run 5
179	12928.00	88.54	180.33	10425.17	2574.56	-2561.91	292.30	2578.53	173.49	94.00	0.70	163.43	MWD Run 5
180	13022.00	87.68	181.02	10428.27	2668.28	-2655.85	291.19	2671.77	173.74	94.00	1.17	163.43	MWD Run 5
181	13116.00	88.54	180.51	10431.37	2761.99	-2749.79	289.93	2765.03	173.98	94.00	1.06	163.43	MWD Run 5
182	13210.00	89.58	180.56	10432.91	2855.76	-2843.77	289.06	2858.42	174.20	94.00	1.11	163.43	MWD Run 5
183	13304.00	89.24	181.01	10433.88	2949.51	-2937.76	287.77	2951.82	174.41	94.00	0.60	163.43	MWD Run 5
184	13398.00	88.68	181.14	10435.59	3043.22	-3031.73	286.01	3045.19	174.61	94.00	0.61	163.43	MWD Run 5
185	13492.00	89.36	181.07	10437.20	3136.93	-3125.70	284.19	3138.59	174.80	94.00	0.73	163.43	MWD Run 5
186	13586.00	88.68	180.99	10438.80	3230.64	-3219.67	282.50	3232.04	174.99	94.00	0.73	163.43	MWD Run 5
187	13680.00	89.50	180.74	10440.30	3324.37	-3313.64	281.08	3325.54	175.15	94.00	0.91	163.43	MWD Run 5
188	13774.00	88.26	180.07	10442.13	3418.15	-3407.62	280.42	3419.14	175.30	94.00	1.50	163.43	MWD Run 5
189	13868.00	88.88	179.77	10444.48	3511.97	-3501.59	280.55	3512.81	175.42	94.00	0.73	163.43	MWD Run 5
190	13962.00	88.46	180.01	10446.66	3605.80	-3595.56	280.73	3606.50	175.54	94.00	0.51	163.43	MWD Run 5
191	14057.00	87.54	179.98	10449.98	3700.58	-3690.51	280.74	3701.17	175.65	95.00	0.97	163.43	MWD Run 5
192	14150.00	88.21	179.31	10453.42	3793.39	-3783.44	281.32	3793.88	175.75	93.00	1.02	163.43	MWD Run 5
193	14244.00	88.68	178.84	10455.98	3887.27	-3877.39	282.83	3887.69	175.83	94.00	0.71	163.43	MWD Run 5

194	14338.00	87.90	179.16	10458.78	3981.15	-3971.33	284.47	3981.51	175.90	94.00	0.90	163.43	MWD Run 5
195	14432.00	88.49	178.92	10461.74	4075.03	-4065.27	286.05	4075.32	175.98	94.00	0.68	163.43	MWD Run 5
196	14526.00	89.86	179.62	10463.09	4168.92	-4159.25	287.24	4169.16	176.05	94.00	1.64	163.43	MWD Run 5
197	14620.00	91.01	179.17	10462.38	4262.81	-4253.24	288.24	4263.00	176.12	94.00	1.31	163.43	MWD Run 5
198	14714.00	90.34	179.19	10461.27	4356.71	-4347.23	289.58	4356.86	176.19	94.00	0.71	163.43	MWD Run 5
199	14808.00	91.62	178.95	10459.67	4450.61	-4441.20	291.11	4450.73	176.25	94.00	1.39	163.43	MWD Run 5
200	14902.00	90.36	179.17	10458.04	4544.51	-4535.17	292.65	4544.60	176.31	94.00	1.36	163.43	MWD Run 5
201	14996.00	89.80	180.22	10457.91	4638.38	-4629.17	293.15	4638.44	176.38	94.00	1.27	163.43	MWD Run 5
202	15089.00	91.04	179.90	10457.23	4731.21	-4722.16	293.05	4731.24	176.45	93.00	1.38	163.43	MWD Run 5
203	15183.00	91.01	179.12	10455.55	4825.08	-4816.14	293.86	4825.10	176.51	94.00	0.83	170.57	MWD Run 5
204	15243.00	91.46	178.90	10454.25	4885.02	-4876.12	294.89	4885.03	176.54	60.00	0.83	170.57	MWD Run 5
205	15298.00	91.46	178.90	10452.85	4939.96	-4931.09	295.95	4939.96	176.57	55.00	0.00	0.00	

