



## Directional Survey Report

Company: **ConocoPhillips Company**  
 Well: **UL 20 Paddle Tail B #503H**  
 County: **Loving**  
 State: **Texas**  
 Field: **Phantom (Wolfcamp)**  
 API: **42301360790000**  
 Rig: **Nabors X04**  
 Service Co: **Gordon Technologies LLC**  
 Job #: **GT230047**  
 Survey Calc: **Minimum Curvature**

Well Surface Location  
 Latitude: **31.740166**  
 Longitude: **-103.360050**  
 Reference: **NAD 1927**  
 Y (Northing): **766924.90**  
 X (Easting): **1059161.43**  
 Field Engr: **Onyeka Nwachukwu**  
**Reuben Oster**

Report Date: **Apr 20 2023**  
 Time: **10:04**  
 Mag Reference: **Grid North**  
 Mag Correction: **8.05**  
 Vert Sect. Azi: **162.24**  
 Perm Datum: **Mean Sea Level**  
 Depth Ref: **Rotary Table**  
 RKB Height: **32.0**  
 GL Elev: **2823**

Survey	MD	Inc	Azimuth	TVD	VS	Rectangular Offsets		Course Length	DLS	Temp	Closure		Source
						NS	EW				Distance	Azimuth	
Tie In	0	0	0	0	0	0	0	0	0	0	0	0	
1	100.00	0.19	46.04	100.00	-0.07	0.12	0.12	100.00	0.19	0.00	0.17	46.04	3rd Party MSA Extra Survey
2	125.00	0.17	42.12	125.00	-0.11	0.17	0.17	25.00	0.09	0.00	0.24	45.45	3rd Party MSA Extra Survey
3	150.00	0.22	69.21	150.00	-0.13	0.22	0.24	25.00	0.41	0.00	0.33	48.47	3rd Party MSA Extra Survey
4	175.00	0.24	69.91	175.00	-0.14	0.25	0.34	25.00	0.08	0.00	0.42	53.40	3rd Party MSA Extra Survey
5	200.00	0.27	29.94	200.00	-0.18	0.32	0.42	25.00	0.71	0.00	0.53	52.46	3rd Party MSA Extra Survey
6	225.00	0.27	28.35	225.00	-0.26	0.42	0.47	25.00	0.03	0.00	0.64	48.25	3rd Party MSA Extra Survey
7	250.00	0.07	45.45	250.00	-0.31	0.49	0.51	25.00	0.82	0.00	0.71	46.56	3rd Party MSA Extra Survey
8	275.00	0.21	60.55	275.00	-0.32	0.52	0.56	25.00	0.57	0.00	0.77	47.37	3rd Party MSA Extra Survey
9	300.00	0.17	126.89	300.00	-0.30	0.52	0.63	25.00	0.84	0.00	0.82	50.66	3rd Party MSA Extra Survey
10	325.00	0.23	75.32	325.00	-0.27	0.51	0.71	25.00	0.73	0.00	0.87	54.39	3rd Party MSA Extra Survey
11	350.00	0.28	46.15	350.00	-0.29	0.56	0.80	25.00	0.55	0.00	0.98	54.92	3rd Party MSA Extra Survey
12	375.00	0.17	17.97	375.00	-0.35	0.64	0.86	25.00	0.61	0.00	1.07	53.24	3rd Party MSA Extra Survey
13	400.00	0.06	256.98	400.00	-0.38	0.67	0.86	25.00	0.83	0.00	1.09	51.83	3rd Party MSA Extra Survey
14	425.00	0.08	92.29	425.00	-0.38	0.67	0.86	25.00	0.56	0.00	1.09	52.14	3rd Party MSA Extra Survey
15	450.00	0.10	326.03	450.00	-0.39	0.69	0.87	25.00	0.64	0.00	1.11	51.59	3rd Party MSA Extra Survey
16	475.00	0.13	265.22	475.00	-0.42	0.70	0.83	25.00	0.48	0.00	1.09	49.62	3rd Party MSA Extra Survey
17	500.00	0.27	224.87	500.00	-0.40	0.66	0.76	25.00	0.76	0.00	1.00	48.95	3rd Party MSA Extra Survey
18	525.00	0.39	261.45	525.00	-0.38	0.61	0.63	25.00	0.95	0.00	0.88	46.23	3rd Party MSA Extra Survey
19	550.00	0.29	255.63	550.00	-0.40	0.58	0.49	25.00	0.42	0.00	0.75	40.14	3rd Party MSA Extra Survey
20	575.00	0.25	263.60	575.00	-0.42	0.56	0.37	25.00	0.22	0.00	0.67	33.75	3rd Party MSA Extra Survey
21	600.00	0.46	249.23	600.00	-0.42	0.51	0.22	25.00	0.91	0.00	0.56	23.47	3rd Party MSA Extra Survey
22	625.00	0.52	247.84	625.00	-0.41	0.44	0.02	25.00	0.24	0.00	0.44	3.17	3rd Party MSA Extra Survey
23	650.00	0.65	235.52	649.99	-0.36	0.31	-0.20	25.00	0.72	0.00	0.37	327.62	3rd Party MSA Extra Survey
24	675.00	0.79	234.50	674.99	-0.26	0.13	-0.46	25.00	0.56	0.00	0.47	286.14	3rd Party MSA Extra Survey
25	700.00	0.66	229.42	699.99	-0.16	-0.06	-0.70	25.00	0.58	0.00	0.71	264.97	3rd Party MSA Extra Survey
26	725.00	0.61	230.57	724.99	-0.05	-0.24	-0.92	25.00	0.21	0.00	0.95	255.32	3rd Party MSA Extra Survey
27	750.00	0.51	226.21	749.99	0.05	-0.40	-1.10	25.00	0.43	0.00	1.17	249.94	3rd Party MSA Extra Survey
28	775.00	0.45	241.34	774.99	0.11	-0.53	-1.27	25.00	0.56	0.00	1.37	247.45	3rd Party MSA Extra Survey
29	800.00	0.70	234.53	799.99	0.18	-0.66	-1.48	25.00	1.03	0.00	1.62	245.87	3rd Party MSA Extra Survey
30	825.00	0.53	229.74	824.98	0.27	-0.82	-1.69	25.00	0.71	0.00	1.88	243.98	3rd Party MSA Extra Survey
31	850.00	0.48	236.45	849.98	0.34	-0.96	-1.87	25.00	0.31	0.00	2.10	242.83	3rd Party MSA Extra Survey
32	875.00	0.61	246.36	874.98	0.39	-1.07	-2.07	25.00	0.64	0.00	2.33	242.74	3rd Party MSA Extra Survey
33	900.00	0.55	222.34	899.98	0.46	-1.21	-2.28	25.00	0.99	0.00	2.58	242.00	3rd Party MSA Extra Survey
34	925.00	0.52	233.33	924.98	0.56	-1.37	-2.45	25.00	0.43	0.00	2.80	240.82	3rd Party MSA Extra Survey
35	950.00	0.72	226.18	949.98	0.66	-1.54	-2.65	25.00	0.86	0.00	3.07	239.81	3rd Party MSA Extra Survey
36	975.00	0.54	223.64	974.98	0.79	-1.74	-2.85	25.00	0.73	0.00	3.34	238.61	3rd Party MSA Extra Survey
37	1000.00	0.57	220.52	999.98	0.91	-1.92	-3.01	25.00	0.17	0.00	3.57	237.50	3rd Party MSA Extra Survey
38	1025.00	0.48	218.20	1024.97	1.03	-2.09	-3.16	25.00	0.37	0.00	3.79	236.43	3rd Party MSA Extra Survey
39	1050.00	0.54	218.76	1049.97	1.16	-2.27	-3.29	25.00	0.24	0.00	4.00	235.45	3rd Party MSA Extra Survey
40	1075.00	0.52	254.79	1074.97	1.22	-2.39	-3.48	25.00	1.31	0.00	4.22	235.50	3rd Party MSA Extra Survey
41	1100.00	0.67	229.79	1099.97	1.27	-2.51	-3.70	25.00	1.19	0.00	4.47	235.79	3rd Party MSA Extra Survey
42	1125.00	0.51	215.96	1124.97	1.39	-2.70	-3.88	25.00	0.85	0.00	4.72	235.15	3rd Party MSA Extra Survey
43	1150.00	0.49	236.15	1149.97	1.48	-2.85	-4.03	25.00	0.71	0.00	4.93	234.74	3rd Party MSA Extra Survey
44	1175.00	0.67	224.76	1174.97	1.58	-3.01	-4.22	25.00	0.85	0.00	5.19	234.49	3rd Party MSA Extra Survey
45	1200.00	0.62	216.20	1199.97	1.73	-3.22	-4.40	25.00	0.43	0.00	5.46	233.79	3rd Party MSA Extra Survey
46	1225.00	0.65	219.38	1224.96	1.88	-3.44	-4.57	25.00	0.19	0.00	5.72	233.03	3rd Party MSA Extra Survey
47	1250.00	0.68	212.43	1249.96	2.06	-3.68	-4.74	25.00	0.34	0.00	6.00	232.21	3rd Party MSA Extra Survey
48	1275.00	0.74	207.83	1274.96	2.26	-3.95	-4.90	25.00	0.33	0.00	6.29	231.14	3rd Party MSA Extra Survey
49	1300.00	0.60	203.27	1299.96	2.48	-4.21	-5.03	25.00	0.60	0.00	6.56	230.05	3rd Party MSA Extra Survey
50	1325.00	0.59	214.89	1324.96	2.65	-4.43	-5.15	25.00	0.48	0.00	6.80	229.27	3rd Party MSA Extra Survey
51	1350.00	0.89	214.95	1349.96	2.85	-4.70	-5.34	25.00	1.20	0.00	7.11	228.62	3rd Party MSA Extra Survey
52	1375.00	0.75	206.00	1374.95	3.08	-5.01	-5.52	25.00	0.76	0.00	7.45	227.79	3rd Party MSA Extra Survey
53	1400.00	0.48	199.41	1399.95	3.29	-5.25	-5.62	25.00	1.11	0.00	7.70	226.97	3rd Party MSA Extra Survey

54	1425.00	0.62	206.85	1424.95	3.47	-5.47	-5.72	25.00	0.63	0.00	7.92	226.28	3rd Party MSA Extra Survey
55	1450.00	0.76	220.82	1449.95	3.65	-5.72	-5.89	25.00	0.87	0.00	8.21	225.85	3rd Party MSA Extra Survey
56	1475.00	0.78	205.56	1474.95	3.86	-6.00	-6.07	25.00	0.82	0.00	8.53	225.36	3rd Party MSA Extra Survey
57	1500.00	0.78	196.84	1499.94	4.12	-6.31	-6.19	25.00	0.47	0.00	8.84	224.46	3rd Party MSA Extra Survey
58	1525.00	0.70	200.99	1524.94	4.38	-6.62	-6.30	25.00	0.38	0.00	9.14	223.58	3rd Party MSA Extra Survey
59	1550.00	0.76	206.35	1549.94	4.62	-6.91	-6.43	25.00	0.36	0.00	9.44	222.93	3rd Party MSA Extra Survey
60	1575.00	0.83	217.50	1574.94	4.84	-7.20	-6.61	25.00	0.68	0.00	9.78	222.55	3rd Party MSA Extra Survey
61	1600.00	0.88	208.73	1599.93	5.08	-7.51	-6.81	25.00	0.56	0.00	10.14	222.20	3rd Party MSA Extra Survey
62	1625.00	0.81	210.84	1624.93	5.33	-7.83	-7.00	25.00	0.31	0.00	10.50	221.77	3rd Party MSA Extra Survey
63	1650.00	0.80	200.11	1649.93	5.58	-8.15	-7.15	25.00	0.60	0.00	10.84	221.25	3rd Party MSA Extra Survey
64	1675.00	0.87	195.51	1674.93	5.88	-8.50	-7.26	25.00	0.39	0.00	11.17	220.51	3rd Party MSA Extra Survey
65	1700.00	0.71	199.43	1699.92	6.16	-8.82	-7.36	25.00	0.68	0.00	11.49	219.83	3rd Party MSA Extra Survey
66	1725.00	0.62	195.67	1724.92	6.40	-9.10	-7.45	25.00	0.40	0.00	11.76	219.30	3rd Party MSA Extra Survey
67	1750.00	0.68	198.71	1749.92	6.63	-9.37	-7.53	25.00	0.28	0.00	12.02	218.79	3rd Party MSA Extra Survey
68	1775.00	0.71	194.71	1774.92	6.88	-9.66	-7.62	25.00	0.23	0.00	12.30	218.26	3rd Party MSA Extra Survey
69	1800.00	0.81	194.79	1799.92	7.16	-9.98	-7.70	25.00	0.40	0.00	12.61	217.66	3rd Party MSA Extra Survey
70	1825.00	0.77	186.26	1824.91	7.46	-10.32	-7.77	25.00	0.50	0.00	12.92	216.96	3rd Party MSA Extra Survey
71	1850.00	0.70	209.98	1849.91	7.72	-10.62	-7.86	25.00	1.24	0.00	13.21	216.51	3rd Party MSA Extra Survey
72	1875.00	0.84	191.48	1874.91	7.98	-10.93	-7.97	25.00	1.13	0.00	13.53	216.11	3rd Party MSA Extra Survey
73	1900.00	0.63	199.05	1899.91	8.25	-11.24	-8.06	25.00	0.92	0.00	13.83	215.63	3rd Party MSA Extra Survey
74	1925.00	0.81	197.27	1924.91	8.50	-11.54	-8.15	25.00	0.73	0.00	14.13	215.24	3rd Party MSA Extra Survey
75	1950.00	0.75	196.20	1949.90	8.78	-11.87	-8.25	25.00	0.25	0.00	14.45	214.81	3rd Party MSA Extra Survey
76	1975.00	0.75	189.08	1974.90	9.07	-12.18	-8.32	25.00	0.37	0.00	14.76	214.33	3rd Party MSA Extra Survey
77	2000.00	0.69	186.46	1999.90	9.35	-12.50	-8.37	25.00	0.27	0.00	15.04	213.80	3rd Party MSA Extra Survey
78	2025.00	0.44	200.37	2024.90	9.56	-12.74	-8.42	25.00	1.13	0.00	15.26	213.46	3rd Party MSA Extra Survey
79	2050.00	0.27	326.60	2049.90	9.58	-12.78	-8.48	25.00	2.55	0.00	15.34	213.58	3rd Party MSA Extra Survey
80	2075.00	0.83	9.26	2074.90	9.36	-12.55	-8.48	25.00	2.63	0.00	15.15	214.07	3rd Party MSA Extra Survey
81	2100.00	1.50	357.37	2099.89	8.88	-12.04	-8.47	25.00	2.83	0.00	14.72	215.12	3rd Party MSA Extra Survey
82	2125.00	2.69	358.01	2124.87	8.00	-11.13	-8.51	25.00	4.76	0.00	14.01	217.39	3rd Party MSA Extra Survey
83	2150.00	4.72	356.17	2149.82	6.44	-9.52	-8.60	25.00	8.13	0.00	12.82	222.09	3rd Party MSA Extra Survey
84	2175.00	5.20	353.84	2174.73	4.33	-7.36	-8.79	25.00	2.08	0.00	11.46	230.03	3rd Party MSA Extra Survey
85	2200.00	5.69	355.94	2199.61	2.02	-5.00	-8.99	25.00	2.12	0.00	10.29	240.92	3rd Party MSA Extra Survey
86	2225.00	5.62	356.16	2224.49	-0.37	-2.54	-9.16	25.00	0.29	0.00	9.51	254.49	3rd Party MSA Extra Survey
87	2250.00	5.66	355.32	2249.37	-2.76	-0.09	-9.35	25.00	0.37	0.00	9.35	269.43	3rd Party MSA Extra Survey
88	2275.00	5.69	357.18	2274.25	-5.16	2.37	-9.51	25.00	0.75	0.00	9.80	284.01	3rd Party MSA Extra Survey
89	2300.00	5.84	356.69	2299.12	-7.59	4.88	-9.64	25.00	0.63	0.00	10.81	296.84	3rd Party MSA Extra Survey
90	2325.00	5.89	356.65	2323.99	-10.06	7.43	-9.79	25.00	0.20	0.00	12.29	307.19	3rd Party MSA Extra Survey
91	2350.00	5.87	355.42	2348.86	-12.55	9.99	-9.97	25.00	0.51	0.00	14.11	315.05	3rd Party MSA Extra Survey
92	2375.00	6.03	356.23	2373.73	-15.07	12.57	-10.16	25.00	0.72	0.00	16.16	321.06	3rd Party MSA Extra Survey
93	2400.00	6.85	358.64	2398.57	-17.77	15.37	-10.28	25.00	3.45	0.00	18.49	326.23	3rd Party MSA Extra Survey
94	2425.00	8.50	3.78	2423.34	-20.92	18.71	-10.19	25.00	7.14	0.00	21.30	331.41	3rd Party MSA Extra Survey
95	2450.00	9.33	6.40	2448.04	-24.49	22.56	-9.84	25.00	3.70	0.00	24.62	336.43	3rd Party MSA Extra Survey
96	2475.00	9.69	8.47	2472.70	-28.23	26.66	-9.31	25.00	1.99	0.00	28.24	340.75	3rd Party MSA Extra Survey
97	2500.00	9.73	8.77	2497.34	-32.00	30.83	-8.68	25.00	0.26	0.00	32.02	344.28	3rd Party MSA Extra Survey
98	2525.00	9.77	9.14	2521.98	-35.79	35.01	-8.02	25.00	0.30	0.00	35.92	347.10	3rd Party MSA Extra Survey
99	2550.00	9.88	10.15	2546.61	-39.57	39.21	-7.30	25.00	0.82	0.00	39.89	349.45	3rd Party MSA Extra Survey
100	2575.00	9.82	9.77	2571.24	-43.36	43.43	-6.56	25.00	0.35	0.00	43.92	351.41	3rd Party MSA Extra Survey
101	2600.00	9.87	10.38	2595.88	-47.14	47.64	-5.82	25.00	0.46	0.00	47.99	353.04	3rd Party MSA Extra Survey
102	2625.00	9.83	10.25	2620.51	-50.91	51.84	-5.05	25.00	0.18	0.00	52.09	354.44	3rd Party MSA Extra Survey
103	2650.00	9.92	10.37	2645.14	-54.70	56.06	-4.28	25.00	0.37	0.00	56.22	355.63	3rd Party MSA Extra Survey
104	2675.00	10.08	10.94	2669.76	-58.51	60.33	-3.48	25.00	0.75	0.00	60.43	356.70	3rd Party MSA Extra Survey
105	2700.00	11.00	14.88	2694.33	-62.44	64.78	-2.45	25.00	4.67	0.00	64.83	357.83	3rd Party MSA Extra Survey
106	2725.00	11.89	18.29	2718.84	-66.53	69.53	-1.03	25.00	4.47	0.00	69.54	359.15	3rd Party MSA Extra Survey
107	2750.00	12.29	17.98	2743.28	-70.77	74.51	0.60	25.00	1.62	0.00	74.51	0.46	3rd Party MSA Extra Survey
108	2775.00	12.35	18.05	2767.71	-75.10	79.58	2.25	25.00	0.25	0.00	79.61	1.62	3rd Party MSA Extra Survey
109	2800.00	12.37	18.02	2792.13	-79.44	84.67	3.91	25.00	0.08	0.00	84.76	2.64	3rd Party MSA Extra Survey
110	2825.00	12.40	18.18	2816.55	-83.79	89.77	5.57	25.00	0.18	0.00	89.94	3.55	3rd Party MSA Extra Survey
111	2850.00	12.36	18.14	2840.96	-88.13	94.86	7.24	25.00	0.16	0.00	95.13	4.37	3rd Party MSA Extra Survey
112	2875.00	12.22	18.98	2865.39	-92.42	99.90	8.94	25.00	0.91	0.00	100.30	5.11	3rd Party MSA Extra Survey
113	2900.00	12.30	18.91	2889.82	-96.67	104.92	10.66	25.00	0.33	0.00	105.46	5.80	3rd Party MSA Extra Survey
114	2925.00	12.32	18.91	2914.25	-100.95	109.97	12.39	25.00	0.08	0.00	110.66	6.43	3rd Party MSA Extra Survey
115	2950.00	12.28	19.12	2938.67	-105.21	115.00	14.12	25.00	0.24	0.00	115.86	7.00	3rd Party MSA Extra Survey
116	2975.00	12.03	19.88	2963.11	-109.40	119.96	15.88	25.00	1.19	0.00	121.01	7.54	3rd Party MSA Extra Survey
117	3000.00	12.14	19.76	2987.56	-113.55	124.89	17.65	25.00	0.45	0.00	126.13	8.05	3rd Party MSA Extra Survey
118	3025.00	12.00	19.81	3012.01	-117.70	129.81	19.42	25.00	0.56	0.00	131.25	8.51	3rd Party MSA Extra Survey
119	3050.00	11.50	20.91	3036.48	-121.70	134.58	21.19	25.00	2.19	0.00	136.24	8.95	3rd Party MSA Extra Survey
120	3075.00	10.77	21.10	3061.01	-125.47	139.09	22.92	25.00	2.92	0.00	140.96	9.36	3rd Party MSA Extra Survey
121	3100.00	10.33	22.44	3085.59	-129.00	143.34	24.62	25.00	2.02	0.00	145.44	9.75	3rd Party MSA Extra Survey
122	3125.00	10.18	22.63	3110.19	-132.39	147.45	26.33	25.00	0.62	0.00	149.78	10.12	3rd Party MSA Extra Survey
123	3150.00	10.21	23.09	3134.79	-135.75	151.53	28.04	25.00	0.35	0.00	154.10	10.49	3rd Party MSA Extra Survey
124	3175.00	10.28	23.41	3159.40	-139.11	155.61	29.80	25.00	0.36	0.00	158.44	10.84	3rd Party MSA Extra Survey
125	3200.00	10.25	22.83	3184.00	-142.47	159.71	31.55	25.00	0.43	0.00	162.79	11.17	3rd Party MSA Extra Survey
126	3225.00	10.29	22.67	3208.60	-145.86	163.82	33.27	25.00	0.20	0.00	167.16	11.48	3rd Party MSA Extra Survey
127	3250.00	10.26	23.09	3233.19	-149.25	167.93	35.01	25.00	0.32	0.00	171.54	11.78	3rd Party MSA Extra Survey

128	3275.00	10.04	24.01	3257.80	-152.56	171.97	36.77	25.00	1.09	0.00	175.85	12.07	3rd Party MSA Extra Survey
129	3300.00	9.98	24.37	3282.42	-155.79	175.93	38.55	25.00	0.35	0.00	180.10	12.36	3rd Party MSA Extra Survey
130	3325.00	9.80	25.01	3307.05	-158.96	179.83	40.34	25.00	0.84	0.00	184.30	12.64	3rd Party MSA Extra Survey
131	3350.00	9.73	24.37	3331.69	-162.08	183.68	42.11	25.00	0.52	0.00	188.45	12.91	3rd Party MSA Extra Survey
132	3375.00	9.35	22.77	3356.34	-165.20	187.48	43.77	25.00	1.85	0.00	192.52	13.14	3rd Party MSA Extra Survey
133	3400.00	9.04	21.13	3381.02	-168.27	191.19	45.26	25.00	1.62	0.00	196.47	13.32	3rd Party MSA Extra Survey
134	3425.00	8.70	17.19	3405.72	-171.35	194.82	46.53	25.00	2.78	0.00	200.30	13.43	3rd Party MSA Extra Survey
135	3450.00	8.55	13.43	3430.44	-174.49	198.44	47.52	25.00	2.33	0.00	204.05	13.47	3rd Party MSA Extra Survey
136	3475.00	8.44	14.58	3455.17	-177.63	202.02	48.41	25.00	0.81	0.00	207.74	13.48	3rd Party MSA Extra Survey
137	3500.00	8.30	14.38	3479.90	-180.70	205.54	49.32	25.00	0.57	0.00	211.38	13.49	3rd Party MSA Extra Survey
138	3525.00	8.19	14.32	3504.64	-183.74	209.02	50.21	25.00	0.44	0.00	214.96	13.51	3rd Party MSA Extra Survey
139	3550.00	8.18	14.04	3529.39	-186.76	212.47	51.08	25.00	0.16	0.00	218.52	13.52	3rd Party MSA Extra Survey
140	3575.00	8.04	13.67	3554.14	-189.76	215.89	51.93	25.00	0.60	0.00	222.05	13.52	3rd Party MSA Extra Survey
141	3600.00	7.96	14.03	3578.89	-192.73	219.27	52.76	25.00	0.38	0.00	225.53	13.53	3rd Party MSA Extra Survey
142	3625.00	7.98	14.49	3603.65	-195.67	222.63	53.62	25.00	0.27	0.00	229.00	13.54	3rd Party MSA Extra Survey
143	3650.00	7.54	14.37	3628.42	-198.52	225.90	54.46	25.00	1.76	0.00	232.37	13.55	3rd Party MSA Extra Survey
144	3675.00	7.36	13.40	3653.21	-201.28	229.05	55.23	25.00	0.88	0.00	235.61	13.56	3rd Party MSA Extra Survey
145	3700.00	7.04	12.80	3678.01	-203.97	232.10	55.95	25.00	1.31	0.00	238.74	13.55	3rd Party MSA Extra Survey
146	3725.00	7.07	11.16	3702.83	-206.64	235.10	56.58	25.00	0.81	0.00	241.81	13.53	3rd Party MSA Extra Survey
147	3750.00	6.96	12.49	3727.64	-209.29	238.09	57.21	25.00	0.78	0.00	244.87	13.51	3rd Party MSA Extra Survey
148	3775.00	6.99	12.66	3752.45	-211.91	241.05	57.87	25.00	0.15	0.00	247.90	13.50	3rd Party MSA Extra Survey
149	3800.00	6.95	12.89	3777.27	-214.53	244.01	58.54	25.00	0.20	0.00	250.93	13.49	3rd Party MSA Extra Survey
150	3825.00	6.96	13.37	3802.08	-217.12	246.96	59.23	25.00	0.24	0.00	253.96	13.49	3rd Party MSA Extra Survey
151	3850.00	7.18	12.76	3826.89	-219.77	249.96	59.92	25.00	0.93	0.00	257.04	13.48	3rd Party MSA Extra Survey
152	3875.00	7.32	13.19	3851.69	-222.48	253.03	60.63	25.00	0.60	0.00	260.19	13.48	3rd Party MSA Extra Survey
153	3900.00	7.24	14.24	3876.49	-225.18	256.11	61.38	25.00	0.62	0.00	263.36	13.48	3rd Party MSA Extra Survey
154	3925.00	7.51	16.55	3901.29	-227.86	259.20	62.24	25.00	1.60	0.00	266.57	13.50	3rd Party MSA Extra Survey
155	3950.00	7.55	16.71	3926.07	-230.57	262.34	63.17	25.00	0.18	0.00	269.84	13.54	3rd Party MSA Extra Survey
156	3975.00	7.74	20.35	3950.85	-233.25	265.49	64.23	25.00	2.08	0.00	273.15	13.60	3rd Party MSA Extra Survey
157	4000.00	7.76	20.74	3975.62	-235.89	268.65	65.41	25.00	0.23	0.00	276.50	13.68	3rd Party MSA Extra Survey
158	4025.00	7.91	21.93	4000.39	-238.54	271.82	66.65	25.00	0.88	0.00	279.88	13.78	3rd Party MSA Extra Survey
159	4050.00	8.57	23.26	4025.13	-241.27	275.13	68.03	25.00	2.75	0.00	283.42	13.89	3rd Party MSA Extra Survey
160	4075.00	9.08	22.20	4049.83	-244.18	278.67	69.51	25.00	2.14	0.00	287.21	14.01	3rd Party MSA Extra Survey
161	4100.00	9.21	21.84	4074.52	-247.24	282.35	71.00	25.00	0.57	0.00	291.14	14.12	3rd Party MSA Extra Survey
162	4125.00	9.05	20.42	4099.20	-250.32	286.05	72.43	25.00	1.11	0.00	295.08	14.21	3rd Party MSA Extra Survey
163	4150.00	8.78	18.36	4123.90	-253.41	289.70	73.72	25.00	1.67	0.00	298.94	14.28	3rd Party MSA Extra Survey
164	4175.00	8.68	16.53	4148.61	-256.51	293.32	74.86	25.00	1.18	0.00	302.73	14.32	3rd Party MSA Extra Survey
165	4200.00	8.67	17.26	4173.32	-259.61	296.93	75.95	25.00	0.44	0.00	306.49	14.35	3rd Party MSA Extra Survey
166	4225.00	8.62	17.72	4198.04	-262.68	300.52	77.08	25.00	0.34	0.00	310.24	14.39	3rd Party MSA Extra Survey
167	4250.00	8.70	17.70	4222.75	-265.75	304.10	78.23	25.00	0.32	0.00	314.00	14.43	3rd Party MSA Extra Survey
168	4275.00	8.59	17.73	4247.47	-268.81	307.68	79.37	25.00	0.44	0.00	317.75	14.46	3rd Party MSA Extra Survey
169	4300.00	8.65	17.82	4272.19	-271.86	311.25	80.51	25.00	0.25	0.00	321.49	14.50	3rd Party MSA Extra Survey
170	4325.00	9.03	19.97	4296.89	-274.94	314.88	81.76	25.00	2.01	0.00	325.32	14.56	3rd Party MSA Extra Survey
171	4350.00	9.15	20.56	4321.57	-278.05	318.59	83.13	25.00	0.61	0.00	329.25	14.62	3rd Party MSA Extra Survey
172	4375.00	9.11	20.98	4346.26	-281.15	322.30	84.53	25.00	0.31	0.00	333.20	14.70	3rd Party MSA Extra Survey
173	4400.00	9.26	19.98	4370.94	-284.29	326.04	85.93	25.00	0.88	0.00	337.17	14.77	3rd Party MSA Extra Survey
174	4425.00	8.88	21.82	4395.62	-287.36	329.72	87.34	25.00	1.91	0.00	341.09	14.84	3rd Party MSA Extra Survey
175	4450.00	8.62	22.37	4420.33	-290.28	333.24	88.77	25.00	1.09	0.00	344.86	14.92	3rd Party MSA Extra Survey
176	4475.00	7.99	21.88	4445.07	-293.05	336.59	90.13	25.00	2.54	0.00	348.44	14.99	3rd Party MSA Extra Survey
177	4500.00	7.88	20.11	4469.83	-295.74	339.81	91.36	25.00	1.07	0.00	351.88	15.05	3rd Party MSA Extra Survey
178	4525.00	7.88	16.36	4494.60	-298.52	343.06	92.43	25.00	2.06	0.00	355.30	15.08	3rd Party MSA Extra Survey
179	4550.00	8.52	13.24	4519.34	-301.52	346.51	93.34	25.00	3.12	0.00	358.86	15.08	3rd Party MSA Extra Survey
180	4575.00	8.69	12.91	4544.06	-304.73	350.15	94.19	25.00	0.71	0.00	362.60	15.06	3rd Party MSA Extra Survey
181	4600.00	9.07	11.95	4568.76	-308.07	353.92	95.02	25.00	1.63	0.00	366.45	15.03	3rd Party MSA Extra Survey
182	4625.00	9.54	10.68	4593.43	-311.60	357.88	95.81	25.00	2.05	0.00	370.49	14.99	3rd Party MSA Extra Survey
183	4650.00	11.03	7.12	4618.03	-315.60	362.29	96.49	25.00	6.48	0.00	374.92	14.91	3rd Party MSA Extra Survey
184	4675.00	11.82	6.30	4642.53	-320.10	367.21	97.07	25.00	3.23	0.00	379.82	14.81	3rd Party MSA Extra Survey
185	4700.00	13.41	3.55	4666.93	-325.14	372.65	97.53	25.00	6.80	0.00	385.20	14.67	3rd Party MSA Extra Survey
186	4725.00	14.31	2.82	4691.20	-330.74	378.63	97.86	25.00	3.67	0.00	391.07	14.49	3rd Party MSA Extra Survey
187	4750.00	14.42	1.92	4715.42	-336.56	384.83	98.12	25.00	1.00	0.00	397.14	14.30	3rd Party MSA Extra Survey
188	4775.00	14.41	1.06	4739.63	-342.43	391.05	98.28	25.00	0.86	0.00	403.21	14.11	3rd Party MSA Extra Survey
189	4800.00	14.37	0.17	4763.85	-348.33	397.26	98.34	25.00	0.90	0.00	409.25	13.90	3rd Party MSA Extra Survey
190	4825.00	14.45	0.07	4788.06	-354.25	403.48	98.36	25.00	0.34	0.00	415.30	13.70	3rd Party MSA Extra Survey
191	4850.00	14.39	0.18	4812.27	-360.18	409.71	98.37	25.00	0.26	0.00	421.35	13.50	3rd Party MSA Extra Survey
192	4875.00	14.54	4.17	4836.48	-366.04	415.94	98.61	25.00	4.03	0.00	427.47	13.34	3rd Party MSA Extra Survey
193	4900.00	14.72	10.21	4860.67	-371.76	422.20	99.40	25.00	6.14	0.00	433.74	13.25	3rd Party MSA Extra Survey
194	4925.00	15.16	14.59	4884.83	-377.33	428.49	100.79	25.00	4.85	0.00	440.18	13.24	3rd Party MSA Extra Survey
195	4950.00	15.14	14.59	4908.96	-382.85	434.81	102.43	25.00	0.08	0.00	446.72	13.26	3rd Party MSA Extra Survey
196	4975.00	14.73	15.70	4933.11	-388.26	441.03	104.12	25.00	2.00	0.00	453.16	13.28	3rd Party MSA Extra Survey
197	5000.00	14.34	15.89	4957.31	-393.48	447.07	105.82	25.00	1.57	0.00	459.42	13.32	3rd Party MSA Extra Survey
198	5025.00	13.76	15.86	4981.57	-398.54	452.91	107.48	25.00	2.32	0.00	465.49	13.35	3rd Party MSA Extra Survey
199	5050.00	13.30	16.05	5005.87	-403.40	458.53	109.09	25.00	1.85	0.00	471.33	13.38	3rd Party MSA Extra Survey
200	5075.00	12.77	16.19	5030.23	-408.08	463.95	110.66	25.00	2.12	0.00	476.96	13.41	3rd Party MSA Extra Survey
201	5100.00	12.46	16.43	5054.62	-412.61	469.19	112.19	25.00	1.26	0.00	482.41	13.45	3rd Party MSA Extra Survey

202	5125.00	12.10	16.44	5079.05	-417.00	474.29	113.69	25.00	1.44	0.00	487.72	13.48	3rd Party MSA Extra Survey
203	5150.00	11.45	16.65	5103.53	-421.22	479.18	115.15	25.00	2.61	0.00	492.82	13.51	3rd Party MSA Extra Survey
204	5175.00	11.23	15.72	5128.04	-425.30	483.90	116.52	25.00	1.14	0.00	497.73	13.54	3rd Party MSA Extra Survey
205	5200.00	10.58	16.74	5152.59	-429.22	488.44	117.84	25.00	2.71	0.00	502.45	13.56	3rd Party MSA Extra Survey
206	5225.00	10.27	16.69	5177.17	-432.95	492.77	119.14	25.00	1.24	0.00	506.97	13.59	3rd Party MSA Extra Survey
207	5250.00	9.78	16.06	5201.79	-436.55	496.95	120.37	25.00	2.01	0.00	511.32	13.62	3rd Party MSA Extra Survey
208	5275.00	9.80	16.28	5226.43	-440.08	501.03	121.55	25.00	0.17	0.00	515.56	13.64	3rd Party MSA Extra Survey
209	5300.00	9.74	15.92	5251.07	-443.60	505.11	122.73	25.00	0.34	0.00	519.80	13.66	3rd Party MSA Extra Survey
210	5325.00	9.77	15.65	5275.70	-447.13	509.18	123.88	25.00	0.22	0.00	524.04	13.67	3rd Party MSA Extra Survey
211	5350.00	9.76	16.05	5300.34	-450.66	513.26	125.04	25.00	0.27	0.00	528.27	13.69	3rd Party MSA Extra Survey
212	5375.00	9.70	15.86	5324.98	-454.18	517.32	126.20	25.00	0.27	0.00	532.49	13.71	3rd Party MSA Extra Survey
213	5400.00	9.74	14.38	5349.62	-457.72	521.40	127.30	25.00	1.01	0.00	536.71	13.72	3rd Party MSA Extra Survey
214	5425.00	9.82	15.85	5374.26	-461.29	525.50	128.41	25.00	1.05	0.00	540.96	13.73	3rd Party MSA Extra Survey
215	5450.00	9.73	15.33	5398.90	-464.83	529.59	129.55	25.00	0.50	0.00	545.20	13.75	3rd Party MSA Extra Survey
216	5475.00	9.78	15.75	5423.54	-468.37	533.67	130.68	25.00	0.35	0.00	549.44	13.76	3rd Party MSA Extra Survey
217	5500.00	9.60	18.27	5448.18	-471.83	537.69	131.91	25.00	1.84	0.00	553.64	13.78	3rd Party MSA Extra Survey
218	5525.00	9.25	23.71	5472.84	-475.02	541.51	133.37	25.00	3.83	0.00	557.69	13.84	3rd Party MSA Extra Survey
219	5550.00	9.15	24.50	5497.52	-478.00	545.16	135.01	25.00	0.64	0.00	561.63	13.91	3rd Party MSA Extra Survey
220	5575.00	9.25	25.16	5522.20	-480.94	548.79	136.68	25.00	0.58	0.00	565.55	13.99	3rd Party MSA Extra Survey
221	5600.00	9.31	24.54	5546.87	-483.91	552.44	138.38	25.00	0.47	0.00	569.51	14.06	3rd Party MSA Extra Survey
222	5625.00	9.32	23.77	5571.54	-486.92	556.14	140.03	25.00	0.50	0.00	573.50	14.13	3rd Party MSA Extra Survey
223	5650.00	9.21	24.23	5596.22	-489.92	559.81	141.67	25.00	0.53	0.00	577.46	14.20	3rd Party MSA Extra Survey
224	5675.00	9.03	22.84	5620.90	-492.90	563.45	143.25	25.00	1.14	0.00	581.37	14.26	3rd Party MSA Extra Survey
225	5700.00	7.95	21.77	5645.63	-495.72	566.86	144.66	25.00	4.37	0.00	585.03	14.32	3rd Party MSA Extra Survey
226	5725.00	7.02	21.00	5670.41	-498.24	569.89	145.85	25.00	3.74	0.00	588.26	14.35	3rd Party MSA Extra Survey
227	5750.00	6.42	21.73	5695.24	-500.51	572.62	146.91	25.00	2.42	0.00	591.16	14.39	3rd Party MSA Extra Survey
228	5775.00	6.08	21.07	5720.09	-502.62	575.15	147.90	25.00	1.39	0.00	593.86	14.42	3rd Party MSA Extra Survey
229	5800.00	5.51	19.54	5744.96	-504.61	577.52	148.78	25.00	2.36	0.00	596.37	14.45	3rd Party MSA Extra Survey
230	5825.00	5.12	19.21	5769.86	-506.46	579.70	149.55	25.00	1.56	0.00	598.68	14.47	3rd Party MSA Extra Survey
231	5850.00	4.95	22.28	5794.76	-508.17	581.75	150.33	25.00	1.27	0.00	600.86	14.49	3rd Party MSA Extra Survey
232	5875.00	4.80	20.76	5819.67	-509.82	583.73	151.11	25.00	0.79	0.00	602.97	14.51	3rd Party MSA Extra Survey
233	5900.00	4.78	20.91	5844.58	-511.45	585.68	151.85	25.00	0.09	0.00	605.04	14.53	3rd Party MSA Extra Survey
234	5925.00	4.68	22.84	5869.50	-513.04	587.59	152.62	25.00	0.75	0.00	607.09	14.56	3rd Party MSA Extra Survey
235	5950.00	4.38	25.53	5894.42	-514.51	589.39	153.42	25.00	1.47	0.00	609.04	14.59	3rd Party MSA Extra Survey
236	5975.00	3.80	34.84	5919.36	-515.70	590.94	154.31	25.00	3.52	0.00	610.75	14.63	3rd Party MSA Extra Survey
237	6000.00	3.66	37.04	5944.30	-516.67	592.25	155.26	25.00	0.80	0.00	612.27	14.69	3rd Party MSA Extra Survey
238	6025.00	3.38	40.81	5969.26	-517.51	593.45	156.22	25.00	1.45	0.00	613.67	14.75	3rd Party MSA Extra Survey
239	6050.00	3.03	41.72	5994.22	-518.23	594.50	157.14	25.00	1.41	0.00	614.92	14.81	3rd Party MSA Extra Survey
240	6075.00	2.35	45.96	6019.19	-518.79	595.35	157.95	25.00	2.83	0.00	615.94	14.86	3rd Party MSA Extra Survey
241	6100.00	1.40	75.15	6044.18	-519.01	595.78	158.62	25.00	5.27	0.00	616.54	14.91	3rd Party MSA Extra Survey
242	6125.00	1.52	83.73	6069.17	-518.92	595.90	159.24	25.00	1.00	0.00	616.81	14.96	3rd Party MSA Extra Survey
243	6150.00	1.53	100.99	6094.16	-518.70	595.87	159.90	25.00	1.83	0.00	616.95	15.02	3rd Party MSA Extra Survey
244	6175.00	1.83	111.01	6119.15	-518.29	595.66	160.60	25.00	1.68	0.00	616.93	15.09	3rd Party MSA Extra Survey
245	6200.00	1.89	112.57	6144.13	-517.77	595.36	161.35	25.00	0.31	0.00	616.84	15.16	3rd Party MSA Extra Survey
246	6225.00	1.75	109.14	6169.12	-517.27	595.08	162.09	25.00	0.71	0.00	616.76	15.24	3rd Party MSA Extra Survey
247	6250.00	1.84	108.98	6194.11	-516.81	594.82	162.83	25.00	0.36	0.00	616.71	15.31	3rd Party MSA Extra Survey
248	6275.00	1.79	108.73	6219.10	-516.33	594.57	163.58	25.00	0.20	0.00	616.66	15.38	3rd Party MSA Extra Survey
249	6300.00	1.91	109.74	6244.08	-515.85	594.30	164.34	25.00	0.50	0.00	616.60	15.46	3rd Party MSA Extra Survey
250	6325.00	1.89	110.82	6269.07	-515.34	594.01	165.12	25.00	0.16	0.00	616.54	15.53	3rd Party MSA Extra Survey
251	6350.00	1.78	108.10	6294.06	-514.85	593.75	165.88	25.00	0.56	0.00	616.48	15.61	3rd Party MSA Extra Survey
252	6375.00	1.71	107.01	6319.05	-514.41	593.52	166.60	25.00	0.31	0.00	616.46	15.68	3rd Party MSA Extra Survey
253	6400.00	1.77	106.05	6344.03	-513.98	593.30	167.33	25.00	0.27	0.00	616.44	15.75	3rd Party MSA Extra Survey
254	6425.00	1.72	103.81	6369.02	-513.57	593.10	168.07	25.00	0.34	0.00	616.46	15.82	3rd Party MSA Extra Survey
255	6450.00	1.66	106.02	6394.01	-513.17	592.91	168.78	25.00	0.35	0.00	616.47	15.89	3rd Party MSA Extra Survey
256	6475.00	1.70	105.81	6419.00	-512.77	592.71	169.48	25.00	0.16	0.00	616.47	15.96	3rd Party MSA Extra Survey
257	6500.00	1.75	106.52	6443.99	-512.35	592.50	170.21	25.00	0.22	0.00	616.47	16.03	3rd Party MSA Extra Survey
258	6525.00	1.59	107.38	6468.98	-511.93	592.29	170.90	25.00	0.65	0.00	616.46	16.10	3rd Party MSA Extra Survey
259	6550.00	1.59	103.53	6493.97	-511.55	592.11	171.57	25.00	0.43	0.00	616.46	16.16	3rd Party MSA Extra Survey
260	6575.00	1.58	107.74	6518.96	-511.17	591.92	172.24	25.00	0.47	0.00	616.47	16.22	3rd Party MSA Extra Survey
261	6600.00	1.53	106.96	6543.95	-510.78	591.72	172.88	25.00	0.22	0.00	616.46	16.29	3rd Party MSA Extra Survey
262	6625.00	1.56	103.99	6568.94	-510.41	591.54	173.53	25.00	0.34	0.00	616.47	16.35	3rd Party MSA Extra Survey
263	6650.00	1.62	103.17	6593.93	-510.05	591.38	174.21	25.00	0.26	0.00	616.50	16.41	3rd Party MSA Extra Survey
264	6675.00	1.55	103.97	6618.92	-509.69	591.21	174.88	25.00	0.29	0.00	616.54	16.48	3rd Party MSA Extra Survey
265	6700.00	1.50	106.67	6643.91	-509.33	591.04	175.52	25.00	0.35	0.00	616.55	16.54	3rd Party MSA Extra Survey
266	6725.00	1.44	106.54	6668.91	-508.97	590.85	176.14	25.00	0.24	0.00	616.55	16.60	3rd Party MSA Extra Survey
267	6750.00	1.55	107.85	6693.90	-508.60	590.66	176.76	25.00	0.46	0.00	616.54	16.66	3rd Party MSA Extra Survey
268	6775.00	1.53	108.17	6718.89	-508.20	590.45	177.40	25.00	0.09	0.00	616.53	16.72	3rd Party MSA Extra Survey
269	6800.00	1.44	109.51	6743.88	-507.82	590.25	178.01	25.00	0.39	0.00	616.50	16.78	3rd Party MSA Extra Survey
270	6825.00	1.28	108.71	6768.87	-507.46	590.05	178.57	25.00	0.64	0.00	616.48	16.84	3rd Party MSA Extra Survey
271	6850.00	1.45	104.52	6793.87	-507.13	589.88	179.14	25.00	0.79	0.00	616.48	16.89	3rd Party MSA Extra Survey
272	6875.00	1.36	101.87	6818.86	-506.81	589.74	179.74	25.00	0.44	0.00	616.52	16.95	3rd Party MSA Extra Survey
273	6900.00	1.27	101.53	6843.85	-506.53	589.62	180.30	25.00	0.36	0.00	616.58	17.00	3rd Party MSA Extra Survey
274	6925.00	1.39	101.71	6868.84	-506.24	589.51	180.87	25.00	0.48	0.00	616.63	17.06	3rd Party MSA Extra Survey
275	6950.00	1.51	106.16	6893.84	-505.91	589.35	181.48	25.00	0.66	0.00	616.66	17.12	3rd Party MSA Extra Survey

276	6975.00	1.06	107.85	6918.83	-505.59	589.19	182.02	25.00	1.81	0.00	616.67	17.17	3rd Party MSA Extra Survey
277	7000.00	1.05	110.15	6943.83	-505.32	589.04	182.45	25.00	0.17	0.00	616.65	17.21	3rd Party MSA Extra Survey
278	7025.00	1.07	111.11	6968.82	-505.03	588.88	182.89	25.00	0.11	0.00	616.63	17.25	3rd Party MSA Extra Survey
279	7050.00	0.85	112.16	6993.82	-504.76	588.73	183.28	25.00	0.88	0.00	616.59	17.29	3rd Party MSA Extra Survey
280	7075.00	0.92	104.70	7018.82	-504.54	588.60	183.64	25.00	0.54	0.00	616.59	17.33	3rd Party MSA Extra Survey
281	7100.00	0.95	103.90	7043.81	-504.32	588.50	184.04	25.00	0.13	0.00	616.61	17.37	3rd Party MSA Extra Survey
282	7125.00	0.77	103.48	7068.81	-504.12	588.41	184.40	25.00	0.72	0.00	616.63	17.40	3rd Party MSA Extra Survey
283	7150.00	0.74	106.08	7093.81	-503.95	588.33	184.72	25.00	0.18	0.00	616.65	17.43	3rd Party MSA Extra Survey
284	7175.00	0.70	108.86	7118.81	-503.77	588.24	185.02	25.00	0.21	0.00	616.65	17.46	3rd Party MSA Extra Survey
285	7200.00	0.61	113.93	7143.80	-503.59	588.13	185.29	25.00	0.43	0.00	616.63	17.49	3rd Party MSA Extra Survey
286	7225.00	0.62	122.29	7168.80	-503.39	588.01	185.52	25.00	0.36	0.00	616.58	17.51	3rd Party MSA Extra Survey
287	7250.00	0.59	119.54	7193.80	-503.20	587.87	185.75	25.00	0.17	0.00	616.52	17.53	3rd Party MSA Extra Survey
288	7275.00	0.48	118.50	7218.80	-503.03	587.76	185.95	25.00	0.44	0.00	616.47	17.56	3rd Party MSA Extra Survey
289	7300.00	0.41	127.10	7243.80	-502.88	587.65	186.12	25.00	0.39	0.00	616.42	17.57	3rd Party MSA Extra Survey
290	7325.00	0.48	132.18	7268.80	-502.71	587.53	186.26	25.00	0.32	0.00	616.35	17.59	3rd Party MSA Extra Survey
291	7350.00	0.53	138.94	7293.80	-502.52	587.37	186.42	25.00	0.31	0.00	616.25	17.61	3rd Party MSA Extra Survey
292	7375.00	0.43	124.86	7318.80	-502.34	587.23	186.57	25.00	0.62	0.00	616.16	17.63	3rd Party MSA Extra Survey
293	7400.00	0.35	125.12	7343.80	-502.20	587.13	186.71	25.00	0.32	0.00	616.11	17.64	3rd Party MSA Extra Survey
294	7425.00	0.29	142.02	7368.80	-502.08	587.04	186.81	25.00	0.44	0.00	616.05	17.65	3rd Party MSA Extra Survey
295	7450.00	0.31	166.50	7393.80	-501.95	586.92	186.87	25.00	0.51	0.00	615.95	17.66	3rd Party MSA Extra Survey
296	7475.00	0.39	169.52	7418.79	-501.80	586.78	186.90	25.00	0.33	0.00	615.82	17.67	3rd Party MSA Extra Survey
297	7500.00	0.28	201.46	7443.79	-501.67	586.63	186.89	25.00	0.85	0.00	615.69	17.67	3rd Party MSA Extra Survey
298	7525.00	0.23	191.79	7468.79	-501.58	586.53	186.86	25.00	0.26	0.00	615.57	17.67	3rd Party MSA Extra Survey
299	7550.00	0.32	198.52	7493.79	-501.48	586.41	186.83	25.00	0.38	0.00	615.46	17.67	3rd Party MSA Extra Survey
300	7575.00	0.52	225.19	7518.79	-501.37	586.27	186.72	25.00	1.10	0.00	615.28	17.67	3rd Party MSA Extra Survey
301	7600.00	0.54	224.44	7543.79	-501.26	586.10	186.56	25.00	0.08	0.00	615.08	17.66	3rd Party MSA Extra Survey
302	7625.00	0.45	237.81	7568.79	-501.19	585.97	186.40	25.00	0.58	0.00	614.90	17.65	3rd Party MSA Extra Survey
303	7650.00	0.47	249.78	7593.79	-501.16	585.88	186.22	25.00	0.39	0.00	614.76	17.63	3rd Party MSA Extra Survey
304	7675.00	0.56	262.46	7618.79	-501.17	585.83	186.00	25.00	0.58	0.00	614.65	17.61	3rd Party MSA Extra Survey
305	7700.00	0.67	251.06	7643.79	-501.19	585.76	185.74	25.00	0.66	0.00	614.51	17.59	3rd Party MSA Extra Survey
306	7725.00	0.65	249.44	7668.79	-501.18	585.67	185.47	25.00	0.11	0.00	614.33	17.57	3rd Party MSA Extra Survey
307	7750.00	0.60	248.69	7693.78	-501.17	585.57	185.21	25.00	0.20	0.00	614.16	17.55	3rd Party MSA Extra Survey
308	7775.00	0.58	263.38	7718.78	-501.18	585.51	184.97	25.00	0.61	0.00	614.03	17.53	3rd Party MSA Extra Survey
309	7800.00	0.67	260.92	7743.78	-501.23	585.47	184.70	25.00	0.38	0.00	613.91	17.51	3rd Party MSA Extra Survey
310	7825.00	0.69	254.21	7768.78	-501.26	585.41	184.41	25.00	0.33	0.00	613.76	17.48	3rd Party MSA Extra Survey
311	7850.00	0.56	255.91	7793.78	-501.27	585.34	184.14	25.00	0.53	0.00	613.62	17.46	3rd Party MSA Extra Survey
312	7875.00	0.42	252.63	7818.78	-501.28	585.28	183.94	25.00	0.57	0.00	613.50	17.45	3rd Party MSA Extra Survey
313	7900.00	0.50	269.27	7843.78	-501.31	585.25	183.74	25.00	0.62	0.00	613.41	17.43	3rd Party MSA Extra Survey
314	7925.00	0.51	273.85	7868.78	-501.38	585.26	183.52	25.00	0.17	0.00	613.35	17.41	3rd Party MSA Extra Survey
315	7950.00	0.53	279.45	7893.77	-501.48	585.28	183.30	25.00	0.22	0.00	613.31	17.39	3rd Party MSA Extra Survey
316	7975.00	0.61	287.32	7918.77	-501.61	585.34	183.05	25.00	0.45	0.00	613.30	17.37	3rd Party MSA Extra Survey
317	8000.00	0.70	292.02	7943.77	-501.78	585.44	182.79	25.00	0.42	0.00	613.31	17.34	3rd Party MSA Extra Survey
318	8025.00	0.74	288.58	7968.77	-501.97	585.55	182.49	25.00	0.24	0.00	613.32	17.31	3rd Party MSA Extra Survey
319	8050.00	0.75	286.08	7993.77	-502.16	585.64	182.18	25.00	0.14	0.00	613.32	17.28	3rd Party MSA Extra Survey
320	8075.00	0.76	286.51	8018.77	-502.35	585.74	181.86	25.00	0.05	0.00	613.32	17.25	3rd Party MSA Extra Survey
321	8100.00	0.77	289.50	8043.76	-502.54	585.84	181.55	25.00	0.16	0.00	613.32	17.22	3rd Party MSA Extra Survey
322	8125.00	0.82	290.43	8068.76	-502.75	585.96	181.22	25.00	0.21	0.00	613.34	17.19	3rd Party MSA Extra Survey
323	8150.00	0.82	293.25	8093.76	-502.98	586.09	180.89	25.00	0.16	0.00	613.37	17.15	3rd Party MSA Extra Survey
324	8175.00	0.80	293.62	8118.76	-503.21	586.23	180.57	25.00	0.08	0.00	613.41	17.12	3rd Party MSA Extra Survey
325	8200.00	0.86	289.98	8143.75	-503.44	586.36	180.23	25.00	0.32	0.00	613.44	17.09	3rd Party MSA Extra Survey
326	8225.00	0.84	287.95	8168.75	-503.67	586.49	179.88	25.00	0.14	0.00	613.45	17.05	3rd Party MSA Extra Survey
327	8250.00	0.82	286.92	8193.75	-503.88	586.59	179.53	25.00	0.10	0.00	613.45	17.02	3rd Party MSA Extra Survey
328	8275.00	0.92	288.19	8218.75	-504.09	586.71	179.17	25.00	0.41	0.00	613.46	16.98	3rd Party MSA Extra Survey
329	8300.00	0.80	286.88	8243.74	-504.31	586.82	178.81	25.00	0.49	0.00	613.46	16.95	3rd Party MSA Extra Survey
330	8325.00	0.77	286.29	8268.74	-504.51	586.92	178.49	25.00	0.12	0.00	613.46	16.91	3rd Party MSA Extra Survey
331	8350.00	0.76	285.71	8293.74	-504.69	587.01	178.16	25.00	0.05	0.00	613.45	16.88	3rd Party MSA Extra Survey
332	8375.00	0.81	283.22	8318.74	-504.87	587.10	177.83	25.00	0.24	0.00	613.44	16.85	3rd Party MSA Extra Survey
333	8400.00	0.79	283.25	8343.73	-505.05	587.18	177.49	25.00	0.08	0.00	613.42	16.82	3rd Party MSA Extra Survey
334	8425.00	0.81	286.14	8368.73	-505.24	587.27	177.16	25.00	0.18	0.00	613.40	16.79	3rd Party MSA Extra Survey
335	8450.00	0.81	288.57	8393.73	-505.44	587.37	176.82	25.00	0.14	0.00	613.41	16.75	3rd Party MSA Extra Survey
336	8475.00	0.83	283.53	8418.73	-505.64	587.47	176.47	25.00	0.30	0.00	613.40	16.72	3rd Party MSA Extra Survey
337	8500.00	0.89	279.08	8443.72	-505.82	587.54	176.11	25.00	0.36	0.00	613.37	16.69	3rd Party MSA Extra Survey
338	8525.00	0.83	272.61	8468.72	-505.97	587.58	175.73	25.00	0.46	0.00	613.30	16.65	3rd Party MSA Extra Survey
339	8550.00	0.87	273.81	8493.72	-506.11	587.60	175.36	25.00	0.18	0.00	613.21	16.62	3rd Party MSA Extra Survey
340	8575.00	0.83	273.07	8518.71	-506.24	587.62	174.99	25.00	0.17	0.00	613.13	16.58	3rd Party MSA Extra Survey
341	8600.00	0.90	272.39	8543.71	-506.37	587.64	174.62	25.00	0.28	0.00	613.04	16.55	3rd Party MSA Extra Survey
342	8625.00	0.91	271.19	8568.71	-506.51	587.65	174.22	25.00	0.09	0.00	612.94	16.51	3rd Party MSA Extra Survey
343	8650.00	0.95	271.26	8593.71	-506.64	587.66	173.82	25.00	0.16	0.00	612.83	16.48	3rd Party MSA Extra Survey
344	8675.00	1.02	272.18	8618.70	-506.78	587.68	173.39	25.00	0.29	0.00	612.72	16.44	3rd Party MSA Extra Survey
345	8700.00	1.11	269.28	8643.70	-506.93	587.68	172.92	25.00	0.42	0.00	612.59	16.40	3rd Party MSA Extra Survey
346	8725.00	1.18	265.27	8668.69	-507.06	587.66	172.42	25.00	0.43	0.00	612.43	16.35	3rd Party MSA Extra Survey
347	8750.00	1.19	268.98	8693.69	-507.19	587.63	171.91	25.00	0.31	0.00	612.26	16.31	3rd Party MSA Extra Survey
348	8775.00	1.17	270.18	8718.68	-507.34	587.63	171.39	25.00	0.13	0.00	612.11	16.26	3rd Party MSA Extra Survey
349	8800.00	1.17	272.00	8743.68	-507.51	587.64	170.88	25.00	0.15	0.00	611.98	16.21	3rd Party MSA Extra Survey

350	8825.00	1.12	267.95	8768.67	-507.66	587.64	170.38	25.00	0.38	0.00	611.84	16.17	3rd Party MSA Extra Survey
351	8850.00	1.09	264.40	8793.67	-507.78	587.61	169.90	25.00	0.30	0.00	611.68	16.13	3rd Party MSA Extra Survey
352	8875.00	1.11	266.29	8818.66	-507.89	587.57	169.42	25.00	0.17	0.00	611.51	16.08	3rd Party MSA Extra Survey
353	8900.00	1.14	264.93	8843.66	-508.00	587.53	168.93	25.00	0.16	0.00	611.33	16.04	3rd Party MSA Extra Survey
354	8925.00	1.17	262.46	8868.65	-508.10	587.47	168.43	25.00	0.23	0.00	611.14	16.00	3rd Party MSA Extra Survey
355	8950.00	1.19	263.48	8893.65	-508.19	587.41	167.92	25.00	0.12	0.00	610.94	15.95	3rd Party MSA Extra Survey
356	8975.00	1.16	263.86	8918.64	-508.30	587.35	167.41	25.00	0.12	0.00	610.75	15.91	3rd Party MSA Extra Survey
357	9000.00	1.15	262.54	8943.64	-508.39	587.29	166.91	25.00	0.11	0.00	610.55	15.87	3rd Party MSA Extra Survey
358	9025.00	1.37	265.44	8968.63	-508.51	587.24	166.37	25.00	0.92	0.00	610.35	15.82	3rd Party MSA Extra Survey
359	9050.00	1.39	270.46	8993.62	-508.67	587.22	165.77	25.00	0.49	0.00	610.17	15.76	3rd Party MSA Extra Survey
360	9075.00	1.45	269.91	9018.62	-508.86	587.22	165.15	25.00	0.25	0.00	610.00	15.71	3rd Party MSA Extra Survey
361	9100.00	1.50	270.14	9043.61	-509.06	587.22	164.50	25.00	0.20	0.00	609.83	15.65	3rd Party MSA Extra Survey
362	9125.00	1.41	269.01	9068.60	-509.24	587.21	163.87	25.00	0.38	0.00	609.65	15.59	3rd Party MSA Extra Survey
363	9150.00	1.60	267.57	9093.59	-509.43	587.19	163.21	25.00	0.77	0.00	609.45	15.53	3rd Party MSA Extra Survey
364	9175.00	1.66	269.06	9118.58	-509.62	587.17	162.50	25.00	0.29	0.00	609.25	15.47	3rd Party MSA Extra Survey
365	9200.00	1.72	268.05	9143.57	-509.83	587.16	161.76	25.00	0.27	0.00	609.03	15.40	3rd Party MSA Extra Survey
366	9225.00	1.71	269.92	9168.56	-510.05	587.14	161.02	25.00	0.23	0.00	608.82	15.34	3rd Party MSA Extra Survey
367	9250.00	1.73	267.44	9193.55	-510.26	587.12	160.27	25.00	0.31	0.00	608.61	15.27	3rd Party MSA Extra Survey
368	9275.00	1.63	269.94	9218.54	-510.46	587.11	159.53	25.00	0.50	0.00	608.40	15.20	3rd Party MSA Extra Survey
369	9300.00	1.92	266.23	9243.52	-510.67	587.08	158.76	25.00	1.25	0.00	608.17	15.13	3rd Party MSA Extra Survey
370	9325.00	1.92	261.00	9268.51	-510.84	586.99	157.93	25.00	0.70	0.00	607.86	15.06	3rd Party MSA Extra Survey
371	9350.00	1.86	246.97	9293.50	-510.87	586.76	157.14	25.00	1.86	0.00	607.44	14.99	3rd Party MSA Extra Survey
372	9375.00	2.07	235.52	9318.48	-510.70	586.35	156.40	25.00	1.78	0.00	606.85	14.93	3rd Party MSA Extra Survey
373	9400.00	2.27	231.86	9343.46	-510.40	585.79	155.63	25.00	0.97	0.00	606.11	14.88	3rd Party MSA Extra Survey
374	9425.00	2.37	232.47	9368.44	-510.05	585.17	154.83	25.00	0.41	0.00	605.30	14.82	3rd Party MSA Extra Survey
375	9450.00	2.51	232.60	9393.42	-509.69	584.52	153.99	25.00	0.56	0.00	604.46	14.76	3rd Party MSA Extra Survey
376	9475.00	2.51	233.26	9418.40	-509.33	583.86	153.12	25.00	0.12	0.00	603.60	14.69	3rd Party MSA Extra Survey
377	9500.00	2.57	233.83	9443.37	-508.97	583.20	152.22	25.00	0.26	0.00	602.74	14.63	3rd Party MSA Extra Survey
378	9525.00	2.66	230.85	9468.35	-508.58	582.50	151.32	25.00	0.65	0.00	601.84	14.56	3rd Party MSA Extra Survey
379	9550.00	2.72	230.12	9493.32	-508.15	581.76	150.42	25.00	0.28	0.00	600.89	14.50	3rd Party MSA Extra Survey
380	9575.00	2.80	229.44	9518.29	-507.69	580.98	149.50	25.00	0.35	0.00	599.91	14.43	3rd Party MSA Extra Survey
381	9600.00	2.91	229.08	9543.26	-507.20	580.17	148.56	25.00	0.45	0.00	598.88	14.36	3rd Party MSA Extra Survey
382	9625.00	2.83	230.06	9568.23	-506.72	579.35	147.60	25.00	0.38	0.00	597.86	14.29	3rd Party MSA Extra Survey
383	9650.00	2.86	230.31	9593.20	-506.25	578.56	146.65	25.00	0.13	0.00	596.86	14.22	3rd Party MSA Extra Survey
384	9675.00	2.90	228.61	9618.17	-505.77	577.74	145.69	25.00	0.38	0.00	595.83	14.15	3rd Party MSA Extra Survey
385	9700.00	2.66	224.48	9643.14	-505.24	576.91	144.81	25.00	1.25	0.00	594.81	14.09	3rd Party MSA Extra Survey
386	9725.00	2.16	205.43	9668.11	-504.63	576.07	144.21	25.00	3.75	0.00	593.85	14.05	3rd Party MSA Extra Survey
387	9750.00	2.18	179.87	9693.10	-503.83	575.17	144.00	25.00	3.84	0.00	592.92	14.06	3rd Party MSA Extra Survey
388	9775.00	2.23	174.84	9718.08	-502.91	574.21	144.05	25.00	0.80	0.00	592.00	14.08	3rd Party MSA Extra Survey
389	9800.00	2.46	178.74	9743.06	-501.92	573.19	144.10	25.00	1.12	0.00	591.03	14.11	3rd Party MSA Extra Survey
390	9825.00	2.51	179.66	9768.03	-500.88	572.11	144.12	25.00	0.26	0.00	589.98	14.14	3rd Party MSA Extra Survey
391	9850.00	2.40	178.57	9793.01	-499.86	571.04	144.14	25.00	0.48	0.00	588.95	14.17	3rd Party MSA Extra Survey
392	9875.00	2.43	177.32	9817.99	-498.84	569.98	144.17	25.00	0.24	0.00	587.93	14.19	3rd Party MSA Extra Survey
393	9900.00	2.32	178.21	9842.97	-497.84	568.95	144.21	25.00	0.46	0.00	586.94	14.22	3rd Party MSA Extra Survey
394	9925.00	2.27	179.43	9867.95	-496.88	567.95	144.23	25.00	0.28	0.00	585.98	14.25	3rd Party MSA Extra Survey
395	9950.00	2.07	177.63	9892.93	-495.98	567.00	144.26	25.00	0.85	0.00	585.06	14.27	3rd Party MSA Extra Survey
396	9975.00	1.72	174.01	9917.92	-495.17	566.18	144.32	25.00	1.48	0.00	584.28	14.30	3rd Party MSA Extra Survey
397	10000.00	1.66	175.69	9942.90	-494.45	565.44	144.38	25.00	0.31	0.00	583.58	14.32	3rd Party MSA Extra Survey
398	10025.00	1.61	171.11	9967.89	-493.75	564.73	144.46	25.00	0.56	0.00	582.92	14.35	3rd Party MSA Extra Survey
399	10050.00	1.54	166.26	9992.88	-493.07	564.06	144.60	25.00	0.60	0.00	582.30	14.38	3rd Party MSA Extra Survey
400	10075.00	1.41	172.99	10017.88	-492.44	563.43	144.72	25.00	0.87	0.00	581.72	14.40	3rd Party MSA Extra Survey
401	10100.00	1.38	175.13	10042.87	-491.84	562.82	144.78	25.00	0.24	0.00	581.15	14.43	3rd Party MSA Extra Survey
402	10125.00	1.42	171.18	10067.86	-491.24	562.22	144.85	25.00	0.42	0.00	580.58	14.45	3rd Party MSA Extra Survey
403	10150.00	1.30	168.09	10092.85	-490.65	561.63	144.96	25.00	0.56	0.00	580.04	14.47	3rd Party MSA Extra Survey
404	10175.00	1.13	170.45	10117.85	-490.13	561.11	145.06	25.00	0.71	0.00	579.56	14.49	3rd Party MSA Extra Survey
405	10200.00	0.83	169.16	10142.85	-489.70	560.69	145.13	25.00	1.20	0.00	579.17	14.51	3rd Party MSA Extra Survey
406	10225.00	0.39	164.32	10167.84	-489.44	560.43	145.19	25.00	1.77	0.00	578.93	14.52	3rd Party MSA Extra Survey
407	10250.00	0.09	190.81	10192.84	-489.34	560.33	145.21	25.00	1.25	0.00	578.84	14.53	3rd Party MSA Extra Survey
408	10275.00	0.26	301.90	10217.84	-489.36	560.34	145.16	25.00	1.22	0.00	578.84	14.52	3rd Party MSA Extra Survey
409	10300.00	0.72	313.54	10242.84	-489.54	560.48	144.99	25.00	1.87	0.00	578.93	14.50	3rd Party MSA Extra Survey
410	10325.00	1.13	317.18	10267.84	-489.90	560.77	144.71	25.00	1.66	0.00	579.14	14.47	3rd Party MSA Extra Survey
411	10350.00	1.47	313.88	10292.83	-490.41	561.17	144.31	25.00	1.39	0.00	579.43	14.42	3rd Party MSA Extra Survey
412	10375.00	1.74	315.40	10317.82	-491.03	561.67	143.82	25.00	1.09	0.00	579.79	14.36	3rd Party MSA Extra Survey
413	10400.00	2.11	317.66	10342.81	-491.79	562.28	143.24	25.00	1.51	0.00	580.23	14.29	3rd Party MSA Extra Survey
414	10425.00	2.13	317.45	10367.79	-492.63	562.96	142.62	25.00	0.09	0.00	580.74	14.22	3rd Party MSA Extra Survey
415	10450.00	2.07	317.43	10392.78	-493.46	563.63	142.00	25.00	0.24	0.00	581.24	14.14	3rd Party MSA Extra Survey
416	10475.00	2.01	317.77	10417.76	-494.27	564.29	141.40	25.00	0.24	0.00	581.74	14.07	3rd Party MSA Extra Survey
417	10500.00	1.75	325.69	10442.75	-495.03	564.93	140.89	25.00	1.47	0.00	582.23	14.00	3rd Party MSA Extra Survey
418	10525.00	1.60	339.83	10467.74	-495.75	565.57	140.55	25.00	1.75	0.00	582.78	13.96	3rd Party MSA Extra Survey
419	10550.00	1.62	343.34	10492.73	-496.45	566.24	140.33	25.00	0.40	0.00	583.37	13.92	3rd Party MSA Extra Survey
420	10575.00	1.79	339.22	10517.71	-497.19	566.94	140.09	25.00	0.84	0.00	583.99	13.88	3rd Party MSA Extra Survey
421	10600.00	1.91	339.45	10542.70	-498.00	567.70	139.80	25.00	0.48	0.00	584.66	13.83	3rd Party MSA Extra Survey
422	10625.00	1.83	339.04	10567.69	-498.81	568.46	139.52	25.00	0.32	0.00	585.33	13.79	3rd Party MSA Extra Survey
423	10650.00	1.59	338.17	10592.68	-499.56	569.16	139.24	25.00	0.97	0.00	585.94	13.75	3rd Party MSA Extra Survey

424	10675.00	1.22	324.64	10617.67	-500.16	569.69	138.96	25.00	1.98	0.00	586.40	13.71	3rd Party MSA Extra Survey
425	10700.00	1.82	328.99	10642.66	-500.80	570.25	138.60	25.00	2.44	0.00	586.85	13.66	3rd Party MSA Extra Survey
426	10725.00	2.00	325.17	10667.65	-501.60	570.95	138.15	25.00	0.88	0.00	587.43	13.60	3rd Party MSA Extra Survey
427	10750.00	1.98	329.35	10692.63	-502.44	571.68	137.68	25.00	0.59	0.00	588.03	13.54	3rd Party MSA Extra Survey
428	10775.00	1.85	332.72	10717.62	-503.26	572.41	137.27	25.00	0.69	0.00	588.64	13.49	3rd Party MSA Extra Survey
429	10800.00	1.83	329.90	10742.60	-504.05	573.11	136.89	25.00	0.37	0.00	589.24	13.43	3rd Party MSA Extra Survey
430	10825.00	1.93	328.67	10767.59	-504.84	573.82	136.47	25.00	0.43	0.00	589.82	13.38	3rd Party MSA Extra Survey
431	10850.00	1.87	334.45	10792.58	-505.66	574.55	136.08	25.00	0.80	0.00	590.44	13.32	3rd Party MSA Extra Survey
432	10874.00	1.38	330.72	10816.57	-506.33	575.15	135.76	24.00	2.09	0.00	590.96	13.28	3rd Party MSA Extra Survey
433	10950.00	1.20	296.98	10892.55	-507.79	576.31	134.61	76.00	1.01	0.00	591.82	13.15	3rd Party MSA Extra Survey
434	11041.00	1.63	286.29	10983.52	-509.19	577.11	132.51	91.00	0.56	0.00	592.13	12.93	3rd Party MSA Extra Survey
435	11132.00	1.61	291.36	11074.49	-510.72	577.94	130.08	91.00	0.16	0.00	592.40	12.68	3rd Party MSA Extra Survey
436	11223.00	2.09	287.46	11165.44	-512.48	578.90	127.30	91.00	0.55	0.00	592.73	12.40	3rd Party MSA Extra Survey
437	11314.00	1.55	276.92	11256.39	-513.96	579.55	124.49	91.00	0.70	0.00	592.77	12.12	3rd Party MSA Extra Survey
438	11372.00	1.35	267.90	11314.37	-514.47	579.62	123.03	58.00	0.52	0.00	592.53	11.98	3rd Party MSA Extra Survey
439	11489.00	0.90	258.14	11431.35	-514.93	579.38	120.76	117.00	0.42	141.80	591.83	11.77	MWD Run 3
440	11579.00	6.03	173.09	11521.18	-510.36	574.54	120.64	90.00	6.69	140.00	587.07	11.86	MWD Run 3
441	11624.00	19.24	167.29	11564.99	-500.61	564.92	122.56	45.00	29.46	145.40	578.06	12.24	MWD Run 3
442	11670.00	30.90	168.82	11606.59	-481.26	545.87	126.54	46.00	25.38	145.40	560.34	13.05	MWD Run 3
443	11715.00	43.22	165.29	11642.43	-454.29	519.53	132.71	45.00	27.77	152.60	536.21	14.33	MWD Run 3
444	11760.00	46.16	163.81	11674.42	-422.67	489.03	141.15	45.00	6.95	154.40	508.99	16.10	MWD Run 3
445	11806.00	49.28	161.12	11705.37	-388.64	456.59	151.42	46.00	8.04	156.20	481.05	18.35	MWD Run 3
446	11851.00	52.35	158.36	11733.80	-353.81	423.88	163.52	45.00	8.32	156.20	454.33	21.09	MWD Run 3
447	11897.00	55.40	154.93	11760.92	-316.84	389.80	178.26	46.00	8.94	161.60	428.62	24.58	MWD Run 3
448	11942.00	55.98	154.44	11786.28	-280.00	356.20	194.16	45.00	1.57	161.60	405.68	28.59	MWD Run 3
449	11988.00	56.55	154.16	11811.83	-242.11	321.73	210.75	46.00	1.36	161.60	384.61	33.23	MWD Run 3
450	12033.00	57.64	154.31	11836.27	-204.70	287.70	227.17	45.00	2.44	163.40	366.57	38.29	MWD Run 3
451	12078.00	58.87	154.82	11859.95	-166.77	253.14	243.60	45.00	2.88	163.40	351.32	43.90	MWD Run 3
452	12123.00	59.69	155.26	11882.93	-128.39	218.07	259.93	45.00	2.02	165.20	339.29	50.00	MWD Run 3
453	12169.00	60.63	155.76	11905.82	-88.76	181.76	276.46	46.00	2.24	167.00	330.86	56.68	MWD Run 3
454	12214.00	62.09	155.31	11927.39	-49.54	145.81	292.82	45.00	3.38	167.00	327.12	63.53	MWD Run 3
455	12260.00	63.30	155.22	11948.49	-8.97	108.69	309.92	46.00	2.63	168.80	328.43	70.67	MWD Run 3
456	12305.00	64.55	154.93	11968.27	31.13	72.03	326.96	45.00	2.84	167.00	334.80	77.58	MWD Run 3
457	12351.00	66.91	155.58	11987.18	72.75	33.95	344.51	46.00	5.29	167.00	346.17	84.37	MWD Run 3
458	12396.00	71.18	157.68	12003.27	114.56	-4.62	361.16	45.00	10.44	170.60	361.19	90.73	MWD Run 3
459	12441.00	76.26	161.22	12015.88	157.69	-45.05	376.30	45.00	13.58	168.80	378.99	96.83	MWD Run 3
460	12487.00	80.49	164.05	12025.15	202.73	-88.04	389.73	46.00	11.01	168.80	399.55	102.73	MWD Run 3
461	12532.00	85.25	166.76	12030.73	247.29	-131.24	400.97	45.00	12.12	170.60	421.90	108.12	MWD Run 3
462	12623.00	90.86	164.74	12033.83	338.03	-219.35	423.35	91.00	6.55	158.00	476.80	117.39	MWD Run 4
463	12714.00	91.42	165.20	12032.03	428.91	-307.22	446.95	91.00	0.80	165.20	542.35	124.50	MWD Run 4
464	12805.00	91.75	165.74	12029.51	519.73	-395.27	469.77	91.00	0.70	168.80	613.94	130.08	MWD Run 4
465	12896.00	91.72	165.80	12026.75	610.51	-483.44	492.13	91.00	0.07	170.60	689.86	134.49	MWD Run 4
466	12987.00	91.25	165.54	12024.39	701.32	-571.58	514.65	91.00	0.60	174.20	769.13	138.00	MWD Run 4
467	13077.00	90.99	166.05	12022.63	791.13	-658.81	536.72	90.00	0.64	176.00	849.77	140.83	MWD Run 4
468	13168.00	91.11	164.79	12020.96	881.97	-746.86	559.62	91.00	1.39	179.60	933.26	143.16	MWD Run 4
469	13259.00	89.45	164.78	12020.52	972.88	-834.67	583.50	91.00	1.82	177.80	1018.41	145.04	MWD Run 4
470	13349.00	88.58	165.95	12022.06	1062.73	-921.73	606.25	90.00	1.62	183.20	1103.23	146.67	MWD Run 4
471	13440.00	88.84	167.04	12024.11	1153.45	-1010.19	627.49	91.00	1.23	185.00	1189.22	148.15	MWD Run 4
472	13530.00	89.23	165.82	12025.62	1243.20	-1097.67	648.61	90.00	1.42	183.20	1274.98	149.42	MWD Run 4
473	13621.00	90.69	163.99	12025.69	1334.09	-1185.52	672.30	91.00	2.57	183.20	1362.88	150.44	MWD Run 4
474	13711.00	90.77	163.66	12024.55	1424.05	-1271.95	697.37	90.00	0.38	186.80	1450.58	151.27	MWD Run 4
475	13802.00	91.50	163.82	12022.74	1515.00	-1359.29	722.85	91.00	0.82	188.60	1539.54	152.00	MWD Run 4
476	13892.00	92.42	164.04	12019.66	1604.91	-1445.72	747.75	90.00	1.06	190.40	1627.65	152.65	MWD Run 4
477	13983.00	92.90	164.15	12015.43	1695.76	-1533.15	772.66	91.00	0.54	190.40	1716.84	153.25	MWD Run 4
478	14074.00	92.06	163.87	12011.49	1786.63	-1620.54	797.70	91.00	0.98	186.80	1806.23	153.79	MWD Run 4
479	14164.00	91.72	163.58	12008.52	1876.55	-1706.89	822.90	90.00	0.50	192.20	1894.90	154.26	MWD Run 4
480	14255.00	90.41	163.65	12006.83	1967.51	-1794.18	848.57	91.00	1.45	188.60	1984.73	154.69	MWD Run 4
481	14346.00	88.50	164.06	12007.70	2058.47	-1881.58	873.87	91.00	2.14	185.00	2074.61	155.09	MWD Run 4
482	14437.00	88.61	164.54	12009.99	2149.38	-1969.16	898.49	91.00	0.54	186.80	2164.45	155.47	MWD Run 4
483	14528.00	88.39	164.93	12012.37	2240.26	-2056.91	922.44	91.00	0.49	190.40	2254.28	155.85	MWD Run 4
484	14618.00	88.58	165.39	12014.75	2330.11	-2143.88	945.49	90.00	0.56	190.40	2343.11	156.20	MWD Run 4
485	14709.00	88.78	164.27	12016.84	2420.99	-2231.68	969.30	91.00	1.25	188.60	2433.10	156.52	MWD Run 4
486	14800.00	90.21	162.07	12017.64	2511.97	-2318.77	995.65	91.00	2.88	192.20	2523.50	156.76	MWD Run 4
487	14890.00	89.48	162.61	12017.89	2601.97	-2404.53	1022.95	90.00	1.01	190.40	2613.08	156.95	MWD Run 4
488	14981.00	88.61	162.92	12019.40	2692.95	-2491.43	1049.90	91.00	1.01	195.80	2703.62	157.15	MWD Run 4
489	15072.00	88.56	163.18	12021.65	2783.91	-2578.46	1076.42	91.00	0.29	197.60	2794.12	157.34	MWD Run 4
490	15163.00	88.72	163.23	12023.81	2874.88	-2665.55	1102.70	91.00	0.19	197.60	2884.63	157.53	MWD Run 4
491	15254.00	89.57	164.99	12025.16	2965.81	-2753.06	1127.62	91.00	2.15	199.40	2975.04	157.73	MWD Run 4
492	15345.00	89.93	160.99	12025.56	3056.79	-2840.06	1154.23	91.00	4.42	194.00	3065.65	157.88	MWD Run 4
493	15436.00	90.88	159.41	12024.92	3147.72	-2925.67	1185.06	91.00	2.03	197.60	3156.57	157.95	MWD Run 4
494	15527.00	89.26	154.75	12024.81	3238.32	-3009.46	1220.49	91.00	5.42	197.60	3247.53	157.92	MWD Run 4
495	15617.00	90.49	155.77	12025.01	3327.66	-3091.20	1258.15	90.00	1.78	194.00	3337.43	157.85	MWD Run 4
496	15709.00	89.93	163.60	12024.67	3419.49	-3177.41	1290.06	92.00	8.53	195.80	3429.31	157.90	MWD Run 4
497	15799.00	90.35	166.14	12024.45	3509.39	-3264.28	1313.55	90.00	2.85	199.40	3518.66	158.08	MWD Run 4

498	15890.00	91.53	168.22	12022.96	3600.03	-3353.00	1333.74	91.00	2.63	197.60	3608.52	158.31	MWD Run 4
499	15981.00	90.18	167.28	12021.60	3690.60	-3441.91	1353.04	91.00	1.80	197.60	3698.31	158.54	MWD Run 4
500	16071.00	88.64	165.96	12022.53	3780.33	-3529.46	1373.86	90.00	2.26	199.40	3787.43	158.73	MWD Run 4
501	16162.00	89.03	165.75	12024.37	3871.13	-3617.68	1396.10	91.00	0.49	203.00	3877.72	158.90	MWD Run 4
502	16253.00	91.42	169.69	12024.02	3961.68	-3706.58	1415.44	91.00	5.06	199.40	3967.64	159.10	MWD Run 4
503	16344.00	88.36	165.78	12024.19	4052.24	-3795.47	1434.77	91.00	5.46	199.40	4057.61	159.29	MWD Run 4
504	16435.00	87.01	163.18	12027.87	4143.08	-3883.07	1459.09	91.00	3.21	203.00	4148.16	159.41	MWD Run 4
505	16526.00	87.18	163.47	12032.48	4233.95	-3970.14	1485.17	91.00	0.36	203.00	4238.83	159.49	MWD Run 4
506	16616.00	87.57	164.12	12036.59	4323.82	-4056.47	1510.26	90.00	0.84	204.80	4328.49	159.58	MWD Run 4
507	16707.00	87.57	164.76	12040.44	4414.67	-4144.05	1534.65	91.00	0.71	206.60	4419.09	159.68	MWD Run 4
508	16798.00	88.30	164.42	12043.71	4505.54	-4231.72	1558.82	91.00	0.88	199.40	4509.70	159.78	MWD Run 4
509	16889.00	88.92	162.23	12045.92	4596.49	-4318.87	1584.92	91.00	2.50	204.80	4600.50	159.85	MWD Run 4
510	16980.00	91.36	167.22	12045.70	4687.37	-4406.62	1608.89	91.00	6.10	203.00	4691.14	159.94	MWD Run 4
511	17071.00	90.29	165.34	12044.38	4778.13	-4495.01	1630.46	91.00	2.37	197.60	4781.58	160.06	MWD Run 4
512	17161.00	90.77	162.01	12043.55	4868.08	-4581.36	1655.75	90.00	3.74	203.00	4871.39	160.13	MWD Run 4
513	17251.00	91.36	163.51	12041.87	4958.06	-4667.30	1682.42	90.00	1.79	203.00	4961.27	160.18	MWD Run 4
514	17342.00	91.39	163.72	12039.69	5049.01	-4754.58	1708.08	91.00	0.23	204.80	5052.09	160.24	MWD Run 4
515	17433.00	89.17	160.82	12039.24	5139.99	-4841.24	1735.79	91.00	4.01	204.80	5143.01	160.28	MWD Run 4
516	17523.00	89.96	161.06	12039.93	5229.96	-4926.30	1765.18	90.00	0.91	208.40	5233.01	160.29	MWD Run 4
517	17613.00	90.80	161.90	12039.33	5319.95	-5011.64	1793.78	90.00	1.32	206.60	5322.98	160.31	MWD Run 4
518	17704.00	91.92	163.37	12037.17	5410.92	-5098.46	1820.93	91.00	2.03	203.00	5413.88	160.35	MWD Run 4
519	17794.00	89.48	159.61	12036.07	5500.88	-5183.78	1849.49	90.00	4.98	206.60	5503.83	160.36	MWD Run 4
520	17884.00	89.90	159.65	12036.56	5590.79	-5268.15	1880.83	90.00	0.47	206.60	5593.82	160.35	MWD Run 4
521	17975.00	90.80	160.83	12036.00	5681.73	-5353.78	1911.59	91.00	1.63	208.40	5684.82	160.35	MWD Run 4
522	18066.00	90.99	160.65	12034.58	5772.69	-5439.68	1941.60	91.00	0.29	208.40	5775.81	160.36	MWD Run 4
523	18156.00	92.14	160.99	12032.11	5862.62	-5524.65	1971.16	90.00	1.33	206.60	5865.77	160.36	MWD Run 4
524	18247.00	91.08	162.34	12029.55	5953.58	-5610.99	1999.77	91.00	1.89	201.20	5956.70	160.38	MWD Run 4
525	18337.00	91.08	162.76	12027.86	6043.56	-5696.84	2026.75	90.00	0.46	203.00	6046.63	160.42	MWD Run 4
526	18428.00	90.83	160.28	12026.34	6134.53	-5783.13	2055.59	91.00	2.74	199.40	6137.59	160.43	MWD Run 4
527	18519.00	89.62	161.52	12025.99	6225.51	-5869.11	2085.37	91.00	1.90	201.20	6228.58	160.44	MWD Run 4
528	18609.00	90.07	162.19	12026.23	6315.50	-5954.63	2113.40	90.00	0.90	199.40	6318.55	160.46	MWD Run 4
529	18700.00	90.69	168.28	12025.63	6406.33	-6042.59	2136.57	91.00	6.73	201.20	6409.20	160.53	MWD Run 4
530	18790.00	89.99	166.79	12025.10	6495.94	-6130.46	2156.00	90.00	1.83	203.00	6498.53	160.62	MWD Run 4
531	18881.00	89.90	166.43	12025.19	6586.68	-6218.98	2177.08	91.00	0.41	204.80	6589.04	160.71	MWD Run 4
532	18971.00	89.90	166.96	12025.34	6676.41	-6306.57	2197.79	90.00	0.60	204.80	6678.56	160.79	MWD Run 4
533	19062.00	90.43	167.67	12025.08	6767.05	-6395.35	2217.77	91.00	0.97	204.80	6768.97	160.87	MWD Run 4
534	19152.00	90.97	168.39	12023.97	6856.58	-6483.38	2236.43	90.00	0.99	201.20	6858.27	160.97	MWD Run 4
535	19243.00	88.92	164.90	12024.06	6947.29	-6571.90	2257.44	91.00	4.45	203.00	6948.81	161.04	MWD Run 4
536	19333.00	89.26	164.26	12025.49	7037.21	-6658.65	2281.37	90.00	0.80	206.60	7038.63	161.09	MWD Run 4
537	19424.00	89.99	164.74	12026.10	7128.13	-6746.34	2305.69	91.00	0.96	208.40	7129.47	161.13	MWD Run 4
538	19515.00	89.76	164.59	12026.30	7219.05	-6834.10	2329.75	91.00	0.30	206.60	7220.30	161.18	MWD Run 4
539	19605.00	89.76	163.56	12026.67	7309.00	-6920.64	2354.45	90.00	1.15	208.40	7310.18	161.21	MWD Run 4
540	19696.00	89.87	163.61	12026.96	7399.98	-7007.93	2380.17	91.00	0.14	210.20	7401.10	161.24	MWD Run 4
541	19787.00	90.10	163.15	12026.98	7490.96	-7095.13	2406.20	91.00	0.57	210.20	7492.04	161.27	MWD Run 4
542	19877.00	90.27	164.92	12026.70	7580.91	-7181.65	2430.96	90.00	1.98	208.40	7581.93	161.30	MWD Run 4
543	19968.00	89.48	161.88	12026.90	7671.88	-7268.85	2456.96	91.00	3.45	206.60	7672.86	161.32	MWD Run 4
544	20058.00	89.26	161.30	12027.89	7761.87	-7354.24	2485.38	90.00	0.68	206.60	7762.86	161.33	MWD Run 4
545	20149.00	89.54	161.01	12028.84	7852.85	-7440.36	2514.77	91.00	0.45	206.60	7853.85	161.33	MWD Run 4
546	20239.00	89.73	161.83	12029.42	7942.84	-7525.66	2543.45	90.00	0.93	203.00	7943.85	161.33	MWD Run 4
547	20329.00	90.86	164.28	12028.95	8032.82	-7611.75	2569.68	90.00	3.00	208.40	8033.80	161.35	MWD Run 4
548	20420.00	90.97	162.26	12027.51	8123.79	-7698.88	2595.86	91.00	2.22	212.00	8124.73	161.37	MWD Run 4
549	20510.00	91.89	161.82	12025.26	8213.76	-7784.47	2623.60	90.00	1.14	212.00	8214.69	161.37	MWD Run 4
550	20601.00	92.37	161.25	12021.88	8304.69	-7870.72	2652.40	91.00	0.82	206.60	8305.63	161.38	MWD Run 4
551	20692.00	91.70	163.99	12018.65	8395.62	-7957.50	2679.57	91.00	3.10	201.20	8396.54	161.39	MWD Run 4
552	20783.00	90.91	166.43	12016.57	8486.47	-8045.46	2702.80	91.00	2.82	206.60	8487.31	161.43	MWD Run 4
553	20874.00	88.92	166.03	12016.71	8577.24	-8133.83	2724.46	91.00	2.23	206.60	8577.99	161.48	MWD Run 4
554	20964.00	88.33	165.90	12018.86	8667.02	-8221.12	2746.28	90.00	0.67	204.80	8667.69	161.53	MWD Run 4
555	21055.00	88.87	166.68	12021.09	8757.77	-8309.50	2767.84	91.00	1.04	206.60	8758.35	161.58	MWD Run 4
556	21145.00	89.12	166.74	12022.67	8847.48	-8397.08	2788.53	90.00	0.29	210.20	8847.98	161.63	MWD Run 4
557	21235.00	89.57	167.31	12023.70	8937.16	-8484.77	2808.74	90.00	0.81	210.20	8937.58	161.68	MWD Run 4
558	21326.00	91.19	168.62	12023.10	9027.70	-8573.77	2827.71	91.00	2.29	206.60	9028.03	161.75	MWD Run 4
559	21417.00	91.22	166.65	12021.19	9118.27	-8662.63	2847.19	91.00	2.16	203.00	9118.53	161.81	MWD Run 4
560	21515.00	91.89	165.48	12018.53	9216.02	-8757.71	2870.78	98.00	1.38	190.40	9216.23	161.85	MWD Run 6
561	21605.00	89.06	161.26	12017.78	9305.97	-8843.91	2896.53	90.00	5.65	197.60	9306.16	161.87	MWD Run 6
562	21696.00	86.85	157.95	12021.03	9396.79	-8929.14	2928.22	91.00	4.37	203.00	9397.02	161.84	MWD Run 6
563	21786.00	86.17	157.00	12026.51	9486.31	-9012.12	2962.62	90.00	1.29	204.80	9486.59	161.80	MWD Run 6
564	21876.00	85.22	156.55	12033.26	9575.65	-9094.59	2998.01	90.00	1.17	201.20	9575.99	161.76	MWD Run 6
565	21967.00	89.87	162.76	12037.16	9666.41	-9179.77	3029.59	91.00	8.53	203.00	9666.78	161.74	MWD Run 6
566	22057.00	89.34	160.38	12037.77	9756.39	-9265.15	3058.04	90.00	2.71	206.60	9756.77	161.73	MWD Run 6
567	22148.00	91.41	159.51	12037.17	9847.31	-9350.62	3089.24	91.00	2.47	206.60	9847.72	161.72	MWD Run 6
568	22238.00	92.70	161.62	12033.94	9937.21	-9435.44	3119.16	90.00	2.74	206.60	9937.64	161.71	MWD Run 6
569	22329.00	93.66	165.13	12028.89	10028.03	-9522.48	3145.16	91.00	3.99	208.40	10028.44	161.72	MWD Run 6
570	22420.00	93.91	165.30	12022.88	10118.71	-9610.27	3168.34	91.00	0.34	210.20	10119.08	161.75	MWD Run 6
571	22511.00	94.22	166.05	12016.43	10209.32	-9698.22	3190.80	91.00	0.89	212.00	10209.64	161.79	MWD Run 6



572	22601.00	94.28	166.11	12009.76	10298.87	-9785.34	3212.40	90.00	0.10	212.00	10299.14	161.83	MWD Run 6
573	22692.00	91.78	165.22	12004.96	10389.57	-9873.37	3234.89	91.00	2.91	208.40	10389.80	161.86	MWD Run 6
574	22782.00	92.09	165.43	12001.92	10479.39	-9960.39	3257.68	90.00	0.42	210.20	10479.59	161.89	MWD Run 6
575	22873.00	90.29	162.04	12000.03	10570.33	-10047.71	3283.15	91.00	4.22	212.00	10570.51	161.90	MWD Run 6
576	22964.00	90.04	162.13	11999.76	10661.32	-10134.30	3311.14	91.00	0.29	210.20	10661.50	161.91	MWD Run 6
577	23055.00	89.79	163.17	11999.89	10752.32	-10221.16	3338.28	91.00	1.18	212.00	10752.50	161.91	MWD Run 6
578	23145.00	91.47	167.71	11998.90	10842.15	-10308.24	3360.90	90.00	5.38	210.20	10842.29	161.94	MWD Run 6
579	23236.00	90.99	168.20	11996.95	10932.67	-10397.21	3379.88	91.00	0.75	213.80	10932.78	161.99	MWD Run 6
580	23327.00	90.01	160.51	11996.15	11023.54	-10484.77	3404.41	91.00	8.53	213.80	11023.63	162.01	MWD Run 6
581	23417.00	89.62	158.55	11996.43	11113.43	-10569.08	3435.88	90.00	2.21	213.80	11113.54	161.99	MWD Run 6
582	23508.00	90.99	159.27	11995.94	11204.28	-10653.98	3468.62	91.00	1.70	215.60	11204.40	161.97	MWD Run 6
583	23599.00	90.15	162.42	11995.03	11295.23	-10739.93	3498.47	91.00	3.57	210.20	11295.37	161.96	MWD Run 6
584	23689.00	89.54	160.55	11995.27	11385.22	-10825.26	3527.06	90.00	2.19	213.80	11385.36	161.95	MWD Run 6
585	23780.00	89.20	163.69	11996.27	11476.20	-10911.85	3554.99	91.00	3.47	212.00	11476.34	161.95	MWD Run 6
586	23871.00	91.72	166.79	11995.54	11567.06	-10999.83	3578.17	91.00	4.40	213.80	11567.17	161.98	MWD Run 6
587	23961.00	91.39	165.75	11993.10	11656.80	-11087.22	3599.52	90.00	1.22	215.60	11656.89	162.01	MWD Run 6
588	24051.00	92.26	166.27	11990.24	11746.56	-11174.51	3621.27	90.00	1.13	217.40	11746.63	162.04	MWD Run 6
589	24142.00	90.69	166.92	11987.90	11837.26	-11263.00	3642.36	91.00	1.87	213.80	11837.31	162.08	MWD Run 6
590	24232.00	88.05	163.43	11988.89	11927.12	-11349.97	3665.38	90.00	4.86	213.80	11927.15	162.10	MWD Run 6
591	24323.00	86.68	162.20	11993.08	12018.01	-11436.82	3692.24	91.00	2.03	217.40	12018.04	162.11	MWD Run 6
592	24413.00	88.72	162.44	11996.69	12107.93	-11522.49	3719.55	90.00	2.29	213.80	12107.97	162.11	MWD Run 6
593	24504.00	88.78	162.39	11998.67	12198.91	-11609.22	3747.03	91.00	0.08	215.60	12198.94	162.11	MWD Run 6
594	24595.00	88.30	161.42	12000.98	12289.88	-11695.69	3775.29	91.00	1.19	217.40	12289.91	162.11	MWD Run 6
595	24686.00	88.28	160.72	12003.69	12380.82	-11781.73	3804.80	91.00	0.77	217.40	12380.86	162.10	MWD Run 6
596	24800.00	87.60	160.74	12007.79	12494.71	-11889.27	3842.40	114.00	0.59	215.60	12494.75	162.09	MWD Run 6
597	24860.00	87.60	160.74	12010.30	12554.63	-11945.86	3862.18	60.00	0.01	0.00	12554.68	162.08	Projection to Bit