



Directional Survey Report

Company: **Elevation Resources LLC**

Well: **UL G 1-7 B #2H**

County: **Andrews**

State: **Texas**

Field: **Emma (Barnett Shale)**

API: **42-003-48888**

Rig: **Precision 567**

Service Co: **Gordon Technologies, LLC**

Job #: **GT240978**

Survey Calc: **Minimum Curvature**

Well Surface Location

Latitude: **32.2098109**

Longitude: **-102.5388914**

Reference: **NAD 1927**

Y (Northing): **234971.84**

X (Easting): **442025.28**

Field Engr: **Michael Ratliff**

Patrick Baudoin

Report Date: **Jun 18 2024**

Time: **11:06**

Mag Reference: **Grid North**

Mag Correction: **8.47**

Vert Sect. Azi: **347.46**

Perm Datum: **Mean Sea Level**

Depth Ref: **Rotary Table**

RKB Height: **25**

GL Elev: **3159**

Survey	MD	Inc	Azimuth	TVD	VS	Rectangular Offsets			Course			Closure		Source
						NS	EW		Length	DLS	Temp	Distance	Azimuth	
Tie In	0	0	0	0	0	0	0		0	0	0	0	0	
1	131.00	0.35	108.87	131.00	-0.21	-0.13	0.38		131.00	0.27	0.00	0.40	108.87	Import Survey
2	218.00	0.62	52.36	218.00	-0.15	0.07	1.00		87.00	0.59	0.00	1.01	85.89	Import Survey
3	309.00	0.53	356.90	308.99	0.48	0.79	1.37		91.00	0.59	0.00	1.58	59.93	Import Survey
4	399.00	0.53	345.74	398.99	1.30	1.61	1.24		90.00	0.11	0.00	2.04	37.67	Import Survey
5	491.00	0.31	79.61	490.99	1.72	2.07	1.38		92.00	0.69	0.00	2.49	33.79	Import Survey
6	585.00	0.53	168.29	584.99	1.28	1.69	1.72		94.00	0.65	0.00	2.41	45.56	Import Survey
7	679.00	1.10	182.62	678.98	-0.03	0.36	1.77		94.00	0.64	0.00	1.81	78.43	Import Survey
8	774.00	1.01	195.10	773.96	-1.65	-1.36	1.51		95.00	0.26	0.00	2.03	131.93	Import Survey
9	866.00	1.14	180.33	865.94	-3.26	-3.05	1.29		92.00	0.33	0.00	3.32	157.04	Import Survey
10	961.00	0.57	241.50	960.93	-4.31	-4.23	0.87		95.00	1.05	0.00	4.31	168.32	Import Survey
11	1054.00	1.14	314.63	1053.93	-3.66	-3.80	-0.19		93.00	1.20	0.00	3.80	182.89	Import Survey
12	1149.00	0.66	299.33	1148.91	-2.50	-2.86	-1.34		95.00	0.56	0.00	3.16	205.09	Import Survey
13	1244.00	0.92	250.73	1243.91	-2.23	-2.85	-2.54		95.00	0.73	0.00	3.81	221.71	Import Survey
14	1336.00	0.35	290.72	1335.90	-2.16	-2.99	-3.50		92.00	0.75	0.00	4.60	229.46	Import Survey
15	1431.00	0.31	276.13	1430.90	-1.92	-2.86	-4.03		95.00	0.10	0.00	4.94	234.59	Import Survey
16	1523.00	0.31	283.43	1522.90	-1.73	-2.78	-4.51		92.00	0.04	0.00	5.30	238.40	Import Survey
17	1618.00	0.18	199.31	1617.90	-1.75	-2.86	-4.81		95.00	0.36	0.00	5.60	239.30	Import Survey
18	1660.00	0.40	241.77	1659.90	-1.84	-2.99	-4.97		42.00	0.70	0.00	5.80	238.94	Import Survey
19	1706.00	0.40	241.00	1705.89	-1.93	-3.14	-5.25		46.00	0.01	0.00	6.12	239.07	Import Survey
20	1766.00	0.10	291.94	1765.89	-1.96	-3.23	-5.48		60.00	0.58	86.00	6.36	239.51	MWD Run 1
21	1856.00	2.06	75.93	1855.88	-1.87	-2.80	-3.98		90.00	2.38	91.40	4.87	234.85	MWD Run 1
22	1945.00	4.42	81.15	1944.73	-2.05	-1.89	0.96		89.00	2.67	96.80	2.12	153.07	MWD Run 1
23	2035.00	7.00	85.84	2034.27	-3.07	-0.96	9.86		90.00	2.91	102.20	9.90	95.54	MWD Run 1
24	2124.00	10.50	82.96	2122.22	-4.64	0.43	23.32		89.00	3.96	105.80	23.32	88.94	MWD Run 1
25	2214.00	12.13	82.35	2210.47	-6.23	2.70	40.83		90.00	1.82	107.60	40.92	86.22	MWD Run 1
26	2303.00	12.57	80.37	2297.41	-7.52	5.56	59.65		89.00	0.69	111.20	59.90	84.67	MWD Run 1
27	2393.00	13.29	79.15	2385.13	-8.32	9.15	79.46		90.00	0.86	113.00	79.99	83.43	MWD Run 1
28	2483.00	15.23	76.05	2472.35	-8.34	13.94	101.10		90.00	2.32	116.60	102.05	82.15	MWD Run 1
29	2572.00	15.05	76.51	2558.27	-7.86	19.46	123.68		89.00	0.24	118.40	125.20	81.06	MWD Run 1
30	2662.00	14.73	76.18	2645.24	-7.41	24.92	146.15		90.00	0.37	120.20	148.26	80.32	MWD Run 1
31	2751.00	14.47	75.41	2731.37	-6.76	30.42	167.90		89.00	0.36	120.20	170.63	79.73	MWD Run 1
32	2840.00	14.02	75.25	2817.63	-5.95	35.97	189.08		89.00	0.51	122.00	192.47	79.23	MWD Run 1
33	2930.00	14.12	73.87	2904.93	-4.84	41.79	210.17		90.00	0.39	118.40	214.29	78.75	MWD Run 1
34	3020.00	13.57	74.28	2992.32	-3.56	47.70	230.88		90.00	0.62	122.00	235.76	78.33	MWD Run 1
35	3109.00	14.18	72.00	3078.72	-1.95	53.90	251.30		89.00	0.92	125.60	257.02	77.89	MWD Run 1
36	3199.00	15.65	67.70	3165.69	1.16	61.91	273.02		90.00	2.04	127.40	279.95	77.22	MWD Run 1
37	3288.00	15.12	67.46	3251.50	5.21	70.92	294.85		89.00	0.60	127.40	303.25	76.48	MWD Run 1
38	3378.00	14.52	66.20	3338.50	9.45	79.97	316.01		90.00	0.76	131.00	325.97	75.80	MWD Run 1
39	3468.00	13.92	66.69	3425.75	13.68	88.81	336.27		90.00	0.68	0.00	347.80	75.21	MWD Run 1
40	3557.00	14.47	67.22	3512.03	17.65	97.35	356.36		89.00	0.63	134.60	369.42	74.72	MWD Run 1
41	3647.00	16.16	70.50	3598.83	21.17	105.88	378.53		90.00	2.11	136.40	393.06	74.37	MWD Run 1
42	3826.00	15.39	70.12	3771.09	27.22	122.28	424.35		179.00	0.43	138.20	441.62	73.93	MWD Run 1
43	3915.00	15.20	68.95	3856.94	30.46	130.48	446.35		89.00	0.41	138.20	465.03	73.70	MWD Run 1
44	4005.00	14.81	69.35	3943.87	33.83	138.78	468.12		90.00	0.45	138.20	488.26	73.49	MWD Run 1
45	4095.00	14.16	70.13	4031.01	36.86	146.58	489.24		90.00	0.75	140.00	510.72	73.32	MWD Run 1
46	4184.00	14.29	73.98	4117.28	38.91	153.31	510.03		89.00	1.07	141.80	532.58	73.27	MWD Run 1
47	4274.00	14.73	76.64	4204.41	39.75	159.02	531.84		90.00	0.89	143.60	555.11	73.35	MWD Run 1
48	4363.00	16.20	78.30	4290.19	39.73	164.15	555.01		89.00	1.72	138.20	578.78	73.52	MWD Run 1
49	4453.00	15.60	78.15	4376.74	39.40	169.18	579.15		90.00	0.67	141.80	603.35	73.72	MWD Run 1
50	4543.00	14.58	78.00	4463.64	39.15	174.02	602.07		90.00	1.13	141.80	626.72	73.88	MWD Run 1

51	4632.00	14.38	77.43	4549.81	39.05	178.75	623.82	89.00	0.28	143.60	648.92	74.01	MWD Run 1
52	4722.00	13.31	76.59	4637.19	39.21	183.59	644.80	90.00	1.21	145.40	670.43	74.11	MWD Run 1
53	4812.00	14.29	77.33	4724.60	39.39	188.43	665.72	90.00	1.11	147.20	691.87	74.20	MWD Run 1
54	4901.00	15.28	78.43	4810.65	39.22	193.19	687.92	89.00	1.16	147.20	714.54	74.31	MWD Run 1
55	4991.00	14.21	79.01	4897.68	38.72	197.67	710.39	90.00	1.20	149.00	737.38	74.45	MWD Run 1
56	5080.00	15.97	75.52	4983.61	38.84	202.82	732.97	89.00	2.22	149.00	760.51	74.53	MWD Run 1
57	5170.00	17.50	74.63	5069.80	39.93	209.50	758.00	90.00	1.72	150.80	786.42	74.55	MWD Run 1
58	5259.00	17.48	74.21	5154.68	41.34	216.69	783.77	89.00	0.14	149.00	813.17	74.55	MWD Run 1
59	5349.00	17.79	74.86	5240.45	42.73	223.95	810.05	90.00	0.41	149.00	840.44	74.55	MWD Run 1
60	5438.00	17.05	72.00	5325.37	44.59	231.54	835.58	89.00	1.27	143.60	867.07	74.51	MWD Run 1
61	5528.00	16.87	70.96	5411.46	47.33	239.88	860.47	90.00	0.39	149.00	893.28	74.42	MWD Run 1
62	5617.00	16.59	70.78	5496.69	50.27	248.27	884.68	89.00	0.32	149.00	918.86	74.32	MWD Run 1
63	5707.00	16.36	71.45	5583.00	53.09	256.53	908.83	90.00	0.33	149.00	944.34	74.24	MWD Run 1
64	5797.00	16.41	71.29	5669.34	55.78	264.64	932.89	90.00	0.07	149.00	969.70	74.16	MWD Run 1
65	5886.00	16.35	72.18	5754.73	58.29	272.51	956.72	89.00	0.29	149.00	994.77	74.10	MWD Run 1
66	5976.00	15.58	72.03	5841.26	60.59	280.12	980.28	90.00	0.86	150.80	1019.51	74.05	MWD Run 1
67	6066.00	14.91	71.31	5928.09	62.98	287.55	1002.74	90.00	0.77	150.80	1043.16	74.00	MWD Run 1
68	6155.00	13.79	71.43	6014.31	65.32	294.60	1023.64	89.00	1.26	147.20	1065.19	73.94	MWD Run 1
69	6245.00	12.60	68.58	6101.93	67.96	301.60	1042.95	90.00	1.51	149.00	1085.68	73.87	MWD Run 1
70	6334.00	12.09	67.99	6188.88	70.99	308.64	1060.63	89.00	0.59	150.80	1104.62	73.78	MWD Run 1
71	6424.00	11.71	67.69	6276.94	74.09	315.64	1077.82	90.00	0.43	150.80	1123.08	73.68	MWD Run 1
72	6514.00	11.19	66.98	6365.15	77.23	322.52	1094.30	90.00	0.60	152.60	1140.84	73.58	MWD Run 1
73	6603.00	10.68	67.11	6452.53	80.29	329.11	1109.85	89.00	0.57	152.60	1157.62	73.48	MWD Run 1
74	6693.00	9.84	65.68	6541.09	83.35	335.52	1124.54	90.00	0.98	150.80	1173.53	73.39	MWD Run 1
75	6783.00	8.73	63.98	6629.91	86.52	341.68	1137.69	90.00	1.27	154.40	1187.89	73.28	MWD Run 1
76	6873.00	8.34	64.11	6718.92	89.62	347.53	1149.70	90.00	0.43	156.20	1201.07	73.18	MWD Run 1
77	6962.00	7.51	61.99	6807.07	92.66	353.08	1160.64	89.00	0.99	158.00	1213.15	73.08	MWD Run 1
78	7052.00	6.24	52.96	6896.42	96.25	358.79	1169.73	90.00	1.85	156.20	1223.52	72.95	MWD Run 1
79	7141.00	5.14	46.75	6984.98	100.30	364.43	1176.50	89.00	1.41	158.00	1231.65	72.79	MWD Run 1
80	7231.00	4.33	33.93	7074.68	104.70	370.01	1181.33	90.00	1.48	159.80	1237.92	72.61	MWD Run 1
81	7320.00	4.37	36.20	7163.42	109.25	375.54	1185.21	89.00	0.20	159.80	1243.28	72.42	MWD Run 1
82	7410.00	5.52	48.61	7253.09	113.60	381.17	1190.48	90.00	1.74	159.80	1250.02	72.25	MWD Run 1
83	7500.00	3.75	43.66	7342.79	117.32	386.16	1195.76	90.00	2.01	136.40	1256.57	72.10	MWD Run 2
84	7590.00	3.15	39.95	7432.63	120.46	390.18	1199.38	90.00	0.71	145.40	1261.25	71.98	MWD Run 2
85	7679.00	3.71	63.81	7521.47	122.63	393.33	1203.54	89.00	1.71	150.80	1266.18	71.90	MWD Run 2
86	7768.00	2.43	78.18	7610.34	123.29	394.99	1207.97	89.00	1.67	154.40	1270.91	71.89	MWD Run 2
87	7858.00	2.04	96.93	7700.27	122.73	395.18	1211.43	90.00	0.91	156.20	1274.25	71.93	MWD Run 2
88	7947.00	0.92	82.66	7789.24	122.14	395.08	1213.71	89.00	1.32	158.00	1276.39	71.97	MWD Run 2
89	8037.00	0.74	71.46	7879.23	122.13	395.36	1214.97	90.00	0.27	156.20	1277.68	71.97	MWD Run 2
90	8127.00	0.66	63.90	7969.23	122.32	395.77	1215.99	90.00	0.14	161.60	1278.78	71.97	MWD Run 2
91	8216.00	0.82	76.70	8058.22	122.44	396.15	1217.07	89.00	0.26	163.40	1279.92	71.97	MWD Run 2
92	8306.00	0.84	86.18	8148.21	122.35	396.34	1218.36	90.00	0.15	165.20	1281.20	71.98	MWD Run 2
93	8396.00	1.20	97.16	8238.20	121.94	396.27	1219.95	90.00	0.45	140.00	1282.69	72.01	MWD Run 3
94	8485.00	1.14	75.20	8327.18	121.66	396.38	1221.73	89.00	0.51	145.40	1284.42	72.02	MWD Run 3
95	8575.00	1.15	93.23	8417.16	121.45	396.55	1223.50	90.00	0.40	149.00	1286.16	72.04	MWD Run 3
96	8665.00	0.68	101.80	8507.15	120.98	396.39	1224.92	90.00	0.54	150.80	1287.46	72.07	MWD Run 3
97	8754.00	1.31	93.47	8596.13	120.48	396.22	1226.45	89.00	0.72	154.40	1288.87	72.10	MWD Run 3
98	8933.00	1.25	111.56	8775.09	118.82	395.38	1230.31	179.00	0.23	158.00	1292.28	72.18	MWD Run 3
99	9023.00	1.42	112.23	8865.07	117.64	394.60	1232.26	90.00	0.19	159.80	1293.90	72.24	MWD Run 3
100	9112.00	1.23	115.61	8954.04	116.42	393.77	1234.14	89.00	0.23	159.80	1295.44	72.30	MWD Run 3
101	9202.00	1.28	113.94	9044.02	115.22	392.94	1235.93	90.00	0.07	161.60	1296.89	72.36	MWD Run 3
102	9291.00	1.47	106.74	9133.00	114.07	392.21	1237.93	89.00	0.29	161.60	1298.58	72.42	MWD Run 3
103	9380.00	1.13	118.49	9221.97	112.94	391.46	1239.80	89.00	0.48	159.80	1300.13	72.48	MWD Run 3
104	9470.00	1.53	116.42	9311.95	111.60	390.51	1241.65	90.00	0.45	167.00	1301.61	72.54	MWD Run 3
105	9559.00	1.42	124.18	9400.92	110.05	389.36	1243.63	89.00	0.26	167.00	1303.15	72.62	MWD Run 3
106	9649.00	1.33	125.03	9490.89	108.47	388.13	1245.41	90.00	0.10	167.00	1304.49	72.69	MWD Run 3
107	9738.00	1.31	114.55	9579.87	107.09	387.12	1247.18	89.00	0.27	165.20	1305.88	72.76	MWD Run 3
108	9828.00	1.11	132.71	9669.85	105.76	386.10	1248.75	90.00	0.48	168.80	1307.08	72.82	MWD Run 3
109	9918.00	1.19	128.04	9759.83	104.32	384.93	1250.13	90.00	0.14	168.80	1308.05	72.89	MWD Run 3
110	10004.00	1.02	136.40	9845.82	102.97	383.83	1251.36	86.00	0.27	170.60	1308.90	72.95	MWD Run 3
111	10100.00	1.15	147.60	9941.80	101.33	382.39	1252.47	96.00	0.26	154.40	1309.54	73.02	MWD Run 4
112	10189.00	2.47	47.96	10030.77	101.44	382.92	1254.37	89.00	3.25	145.40	1311.52	73.02	MWD Run 4
113	10278.00	12.39	346.67	10118.98	111.97	393.53	1253.59	89.00	12.82	152.60	1313.91	72.57	MWD Run 4
114	10368.00	26.13	348.04	10203.74	141.58	422.46	1247.23	90.00	15.27	158.00	1316.83	71.29	MWD Run 4
115	10457.00	33.69	354.06	10280.85	185.77	466.25	1240.60	89.00	9.13	161.60	1325.32	69.40	MWD Run 4
116	10547.00	39.41	348.89	10353.14	239.18	519.17	1232.50	90.00	7.21	163.40	1337.39	67.16	MWD Run 4
117	10636.00	49.56	350.35	10416.55	301.42	580.45	1221.35	89.00	11.46	167.00	1352.26	64.58	MWD Run 4
118	10726.00	63.62	351.42	10465.98	376.22	654.45	1209.54	90.00	15.65	170.60	1375.24	61.58	MWD Run 4
119	10815.00	78.02	348.82	10495.15	459.96	737.02	1195.07	89.00	16.41	172.40	1404.06	58.34	MWD Run 4

120	10905.00	90.88	344.68	10503.84	549.32	824.00	1174.55	90.00	15.00	176.00	1434.77	54.95	MWD Run 4
121	10995.00	91.22	343.22	10502.19	639.14	910.48	1149.68	90.00	1.67	170.60	1466.53	51.62	MWD Run 5
122	11089.00	91.61	343.15	10499.87	732.85	1000.43	1122.49	94.00	0.42	177.80	1503.61	48.29	MWD Run 5
123	11180.00	92.70	343.97	10496.45	823.57	1087.65	1096.76	91.00	1.50	185.00	1544.62	45.24	MWD Run 5
124	11273.00	93.21	344.48	10491.65	916.30	1177.02	1071.51	93.00	0.78	190.40	1591.70	42.31	MWD Run 5
125	11361.00	91.69	346.26	10487.89	1004.15	1262.09	1049.30	88.00	2.66	194.00	1641.31	39.74	MWD Run 5
126	11452.00	91.70	347.17	10485.20	1095.10	1350.61	1028.40	91.00	1.00	195.80	1697.57	37.29	MWD Run 5
127	11541.00	90.69	346.15	10483.34	1184.07	1437.19	1007.87	89.00	1.61	197.60	1755.37	35.04	MWD Run 5
128	11631.00	90.38	346.58	10482.50	1274.05	1524.65	986.65	90.00	0.59	199.40	1816.05	32.91	MWD Run 5
129	11720.00	89.54	346.44	10482.57	1363.04	1611.19	965.89	89.00	0.96	201.20	1878.53	30.94	MWD Run 5
130	11810.00	89.96	349.10	10482.96	1453.03	1699.14	946.83	90.00	2.99	195.80	1945.14	29.13	MWD Run 5
131	11900.00	90.04	349.87	10482.96	1542.97	1787.63	930.41	90.00	0.86	201.20	2015.26	27.50	MWD Run 5
132	11989.00	90.57	349.64	10482.48	1631.90	1875.21	914.58	89.00	0.65	203.00	2086.35	26.00	MWD Run 5
133	12078.00	90.57	348.60	10481.60	1720.86	1962.60	897.78	89.00	1.17	203.00	2158.20	24.58	MWD Run 5
134	12168.00	90.94	347.86	10480.41	1810.84	2050.70	879.42	90.00	0.92	204.80	2231.31	23.21	MWD Run 5
135	12258.00	91.00	346.35	10478.89	1900.82	2138.42	859.34	90.00	1.68	206.60	2304.62	21.89	MWD Run 5
136	12347.00	91.11	344.69	10477.25	1989.75	2224.57	837.09	89.00	1.87	206.60	2376.86	20.62	MWD Run 5
137	12437.00	90.66	343.69	10475.86	2079.60	2311.16	812.57	90.00	1.22	208.40	2449.84	19.37	MWD Run 5
138	12526.00	90.21	344.37	10475.18	2168.43	2396.72	788.09	89.00	0.92	210.20	2522.96	18.20	MWD Run 5
139	12615.00	91.72	347.95	10473.69	2257.38	2483.10	766.81	89.00	4.37	210.20	2598.81	17.16	MWD Run 5
140	12705.00	90.66	346.26	10471.82	2347.35	2570.81	746.73	90.00	2.22	210.20	2677.06	16.20	MWD Run 5
141	12795.00	92.67	349.70	10469.20	2437.29	2658.78	727.99	90.00	4.43	212.00	2756.65	15.31	MWD Run 5
142	12884.00	91.86	348.84	10465.68	2526.18	2746.16	711.44	89.00	1.33	213.80	2836.82	14.52	MWD Run 5
143	12974.00	91.83	348.67	10462.79	2616.11	2834.38	693.89	90.00	0.19	213.80	2918.09	13.76	MWD Run 5
144	13063.00	91.05	346.42	10460.55	2705.07	2921.26	674.71	89.00	2.67	215.60	2998.16	13.01	MWD Run 5
145	13153.00	90.69	344.80	10459.18	2795.01	3008.42	652.34	90.00	1.84	213.80	3078.33	12.23	MWD Run 5
146	13242.00	91.33	344.05	10457.61	2883.87	3094.14	628.45	89.00	1.11	213.80	3157.31	11.48	MWD Run 5
147	13332.00	91.11	345.34	10455.70	2973.75	3180.92	604.70	90.00	1.45	212.00	3237.89	10.76	MWD Run 5
148	13421.00	90.60	344.81	10454.37	3062.66	3266.91	581.78	89.00	0.83	215.60	3318.31	10.10	MWD Run 5
149	13511.00	91.41	344.99	10452.79	3152.56	3353.79	558.34	90.00	0.92	213.80	3399.95	9.45	MWD Run 5
150	13600.00	90.77	348.89	10451.10	3241.52	3440.45	538.24	89.00	4.44	215.60	3482.30	8.89	MWD Run 5
151	13690.00	89.73	347.63	10450.70	3331.51	3528.57	519.92	90.00	1.82	219.20	3566.67	8.38	MWD Run 5
152	13779.00	89.79	347.50	10451.08	3420.50	3615.48	500.76	89.00	0.16	215.60	3649.99	7.89	MWD Run 5
153	13868.00	91.61	350.00	10449.99	3509.46	3702.75	483.40	89.00	3.47	219.20	3734.17	7.44	MWD Run 5
154	13958.00	91.98	350.60	10447.17	3599.31	3791.42	468.24	90.00	0.78	219.20	3820.22	7.04	MWD Run 5
155	14047.00	90.66	350.65	10445.12	3688.15	3879.21	453.75	89.00	1.48	213.80	3905.65	6.67	MWD Run 5
156	14136.00	89.45	349.75	10445.03	3777.04	3966.90	438.60	89.00	1.69	219.20	3991.08	6.31	MWD Run 5
157	14226.00	89.12	350.34	10446.16	3866.94	4055.54	423.04	90.00	0.75	219.20	4077.55	5.96	MWD Run 5
158	14315.00	88.58	349.98	10447.94	3955.83	4143.22	407.84	89.00	0.73	215.60	4163.24	5.62	MWD Run 5
159	14405.00	88.30	348.68	10450.39	4045.74	4231.62	391.18	90.00	1.48	217.40	4249.67	5.28	MWD Run 5
160	14495.00	92.25	347.67	10449.96	4135.72	4319.69	372.74	90.00	4.53	217.40	4335.75	4.93	MWD Run 5
161	14584.00	92.51	346.99	10446.27	4224.64	4406.45	353.24	89.00	0.82	219.20	4420.59	4.58	MWD Run 5
162	14674.00	92.59	347.67	10442.26	4314.55	4494.17	333.52	90.00	0.76	215.60	4506.53	4.24	MWD Run 5
163	14763.00	91.72	349.97	10438.91	4403.45	4581.42	316.27	89.00	2.76	213.80	4592.32	3.95	MWD Run 5
164	14853.00	90.60	349.12	10437.09	4493.37	4669.90	299.95	90.00	1.56	213.80	4679.52	3.68	MWD Run 5
165	14942.00	89.87	348.92	10436.73	4582.34	4757.27	283.00	89.00	0.85	217.40	4765.68	3.40	MWD Run 5
166	15031.00	90.18	350.93	10436.69	4671.25	4844.89	267.43	89.00	2.29	221.00	4852.27	3.16	MWD Run 5
167	15120.00	89.68	350.60	10436.80	4760.10	4932.74	253.14	89.00	0.67	222.80	4939.23	2.94	MWD Run 5
168	15210.00	89.17	350.07	10437.70	4849.99	5021.46	238.04	90.00	0.82	217.40	5027.10	2.71	MWD Run 5
169	15299.00	89.31	349.99	10438.88	4938.89	5109.11	222.63	89.00	0.18	215.60	5113.95	2.50	MWD Run 5
170	15389.00	90.66	347.96	10438.90	5028.85	5197.44	205.42	90.00	2.71	219.20	5201.50	2.26	MWD Run 5
171	15479.00	89.76	347.34	10438.57	5118.85	5285.35	186.17	90.00	1.21	222.80	5288.63	2.02	MWD Run 5
172	15568.00	91.22	346.58	10437.81	5207.84	5372.05	166.09	89.00	1.85	221.00	5374.62	1.77	MWD Run 5
173	15657.00	90.85	345.53	10436.21	5296.80	5458.41	144.64	89.00	1.25	222.80	5460.33	1.52	MWD Run 5
174	15747.00	89.90	344.64	10435.62	5386.71	5545.38	121.48	90.00	1.45	222.80	5546.71	1.25	MWD Run 5
175	15836.00	90.69	343.77	10435.16	5475.57	5631.01	97.26	89.00	1.32	219.20	5631.85	0.99	MWD Run 5
176	15926.00	91.66	344.62	10433.31	5565.40	5717.59	72.75	90.00	1.43	222.80	5718.05	0.73	MWD Run 5
177	16015.00	91.89	344.05	10430.56	5654.23	5803.24	48.73	89.00	0.69	222.80	5803.45	0.48	MWD Run 5
178	16105.00	91.64	343.46	10427.78	5743.99	5889.61	23.56	90.00	0.71	224.60	5889.66	0.23	MWD Run 5
179	16194.00	92.93	345.96	10424.24	5832.81	5975.38	0.11	89.00	3.16	221.00	5975.38	0.00	MWD Run 5
180	16284.00	93.90	349.22	10418.87	5922.64	6063.11	-19.19	90.00	3.77	224.60	6063.14	359.82	MWD Run 5
181	16373.00	91.94	350.46	10414.34	6011.44	6150.59	-34.87	89.00	2.60	224.60	6150.69	359.68	MWD Run 5
182	16463.00	90.83	349.23	10412.16	6101.33	6239.16	-50.73	90.00	1.84	226.40	6239.36	359.53	MWD Run 5
183	16552.00	89.73	348.08	10411.73	6190.31	6326.41	-68.24	89.00	1.79	226.40	6326.78	359.38	MWD Run 5
184	16642.00	91.50	350.36	10410.76	6280.25	6414.81	-85.07	90.00	3.21	226.40	6415.37	359.24	MWD Run 5
185	16732.00	90.52	349.50	10409.18	6370.15	6503.41	-100.80	90.00	1.45	226.40	6504.19	359.11	MWD Run 5
186	16821.00	89.54	348.75	10409.13	6459.11	6590.81	-117.59	89.00	1.39	226.40	6591.86	358.98	MWD Run 5
187	16911.00	91.02	350.71	10408.69	6549.04	6679.36	-133.64	90.00	2.73	224.60	6680.69	358.85	MWD Run 5
188	17000.00	90.49	350.65	10407.52	6637.89	6767.18	-148.05	89.00	0.60	226.40	6768.79	358.75	MWD Run 5

189	17090.00	90.83	351.52	10406.48	6727.70	6856.08	-162.00	90.00	1.04	226.40	6857.99	358.65	MWD Run 5
190	17179.00	91.50	352.36	10404.67	6816.41	6944.18	-174.47	89.00	1.21	226.40	6946.37	358.56	MWD Run 5
191	17268.00	90.80	349.65	10402.88	6905.21	7032.06	-188.38	89.00	3.14	224.60	7034.58	358.47	MWD Run 5
192	17358.00	90.41	349.67	10401.93	6995.14	7120.59	-204.54	90.00	0.43	226.40	7123.53	358.35	MWD Run 5
193	17447.00	91.86	351.59	10400.17	7083.98	7208.38	-219.02	89.00	2.70	226.40	7211.71	358.26	MWD Run 5
194	17537.00	91.16	350.66	10397.80	7173.76	7297.27	-232.90	90.00	1.29	226.40	7300.99	358.17	MWD Run 5
195	17626.00	90.24	348.93	10396.71	7262.68	7384.85	-248.67	89.00	2.20	224.60	7389.04	358.07	MWD Run 5
196	17716.00	90.15	348.35	10396.41	7352.66	7473.09	-266.40	90.00	0.65	226.40	7477.84	357.96	MWD Run 5
197	17805.00	89.17	347.35	10396.93	7441.65	7560.09	-285.13	89.00	1.57	228.20	7565.47	357.84	MWD Run 5
198	17895.00	91.30	347.40	10396.56	7531.65	7647.91	-304.80	90.00	2.37	224.60	7653.98	357.72	MWD Run 5
199	17985.00	92.59	348.28	10393.51	7621.59	7735.84	-323.74	90.00	1.73	226.40	7742.61	357.60	MWD Run 5
200	18074.00	90.72	346.02	10390.94	7710.54	7822.56	-343.53	89.00	3.29	228.20	7830.10	357.49	MWD Run 5
201	18164.00	92.65	348.96	10388.29	7800.49	7910.37	-363.01	90.00	3.91	228.20	7918.70	357.37	MWD Run 5
202	18253.00	91.33	346.90	10385.20	7889.42	7997.35	-381.61	89.00	2.75	228.20	8006.45	357.27	MWD Run 5
203	18343.00	93.27	350.45	10381.59	7979.31	8085.51	-399.27	90.00	4.49	228.20	8095.36	357.17	MWD Run 5
204	18432.00	91.83	348.36	10377.63	8068.17	8172.89	-415.62	89.00	2.85	226.40	8183.46	357.09	MWD Run 5
205	18522.00	91.72	348.62	10374.84	8158.11	8261.04	-433.57	90.00	0.31	228.20	8272.41	357.00	MWD Run 5
206	18612.00	90.46	347.91	10373.13	8248.08	8349.14	-451.87	90.00	1.61	222.80	8361.36	356.90	MWD Run 5
207	18701.00	90.94	346.50	10372.04	8337.07	8435.92	-471.58	89.00	1.67	224.60	8449.09	356.80	MWD Run 5
208	18791.00	90.15	345.51	10371.19	8427.04	8523.25	-493.34	90.00	1.41	222.80	8537.51	356.69	MWD Run 5
209	18881.00	94.37	346.17	10367.64	8516.91	8610.42	-515.34	90.00	4.75	224.60	8625.83	356.57	MWD Run 5
210	18970.00	95.21	346.25	10360.21	8605.58	8696.56	-536.48	89.00	0.95	226.40	8713.09	356.47	MWD Run 5
211	19060.00	95.27	345.71	10351.99	8695.17	8783.51	-558.19	90.00	0.60	224.60	8801.23	356.36	MWD Run 5
212	19149.00	96.39	345.35	10342.95	8783.66	8869.24	-580.31	89.00	1.32	226.40	8888.20	356.26	MWD Run 5
213	19239.00	94.90	345.67	10334.09	8873.17	8955.95	-602.72	90.00	1.69	224.60	8976.21	356.15	MWD Run 5
214	19329.00	92.48	345.73	10328.30	8962.93	9042.98	-624.90	90.00	2.69	222.80	9064.54	356.05	MWD Run 5
215	19418.00	90.49	345.90	10326.00	9051.86	9129.23	-646.70	89.00	2.24	222.80	9152.11	355.95	MWD Run 5
216	19508.00	90.07	345.77	10325.56	9141.82	9216.49	-668.73	90.00	0.49	195.80	9240.72	355.85	MWD Run 6
217	19597.00	93.26	345.71	10322.97	9230.73	9302.70	-690.64	89.00	3.58	208.40	9328.30	355.75	MWD Run 6
218	19687.00	93.57	345.61	10317.61	9320.53	9389.74	-712.89	90.00	0.36	212.00	9416.77	355.66	MWD Run 6
219	19776.00	94.55	346.91	10311.31	9409.28	9475.98	-733.97	89.00	1.83	213.80	9504.36	355.57	MWD Run 6
220	19866.00	95.27	346.91	10303.60	9498.95	9563.31	-754.28	90.00	0.80	215.60	9593.01	355.49	MWD Run 6
221	19956.00	92.93	346.93	10297.17	9588.71	9650.75	-774.60	90.00	2.60	217.40	9681.78	355.41	MWD Run 6
222	20045.00	93.23	346.86	10292.39	9677.58	9737.31	-794.75	89.00	0.35	219.20	9769.69	355.33	MWD Run 6
223	20135.00	92.82	347.76	10287.64	9767.45	9824.98	-814.49	90.00	1.10	221.00	9858.69	355.26	MWD Run 6
224	20224.00	91.36	346.07	10284.39	9856.38	9911.61	-834.63	89.00	2.51	215.60	9946.69	355.19	MWD Run 6
225	20314.00	92.06	346.84	10281.71	9946.32	9999.07	-855.69	90.00	1.16	221.00	10035.61	355.11	MWD Run 6
226	20403.00	91.14	344.35	10279.22	10035.23	10085.23	-877.83	89.00	2.98	221.00	10123.36	355.03	MWD Run 6
227	20493.00	91.02	345.39	10277.52	10125.13	10172.09	-901.31	90.00	1.16	222.80	10211.94	354.94	MWD Run 6
228	20582.00	91.67	345.36	10275.44	10214.04	10258.18	-923.78	89.00	0.73	224.60	10299.69	354.85	MWD Run 6
229	20672.00	91.05	345.74	10273.30	10303.97	10345.31	-946.23	90.00	0.81	224.60	10388.49	354.77	MWD Run 6
230	20761.00	91.25	346.47	10271.51	10392.92	10431.69	-967.60	89.00	0.85	224.60	10476.47	354.70	MWD Run 6
231	20851.00	91.50	347.12	10269.35	10482.89	10519.28	-988.15	90.00	0.77	226.40	10565.59	354.63	MWD Run 6
232	20940.00	91.56	347.43	10266.98	10571.86	10606.07	-1007.75	89.00	0.35	226.40	10653.83	354.57	MWD Run 6
233	21029.00	90.49	346.67	10265.39	10660.84	10692.79	-1027.69	89.00	1.47	226.40	10742.06	354.51	MWD Run 6
234	21119.00	91.61	348.14	10263.74	10750.82	10780.60	-1047.31	90.00	2.05	226.40	10831.35	354.45	MWD Run 6
235	21208.00	91.25	348.42	10261.51	10839.78	10867.72	-1065.38	89.00	0.51	228.20	10919.81	354.40	MWD Run 6
236	21293.00	91.36	348.78	10259.58	10924.74	10951.02	-1082.18	85.00	0.44	228.20	11004.36	354.36	MWD Run 6
PTB	21350.00	91.36	348.78	10258.23	10981.71	11006.91	-1093.27	57.00	0.00	0.00	11061.08	354.33	MWD Run 6