



Directional Survey Report

HOBBS OCD
OCT 18 2018
RECEIVED

Company: **Centennial Resource Production, LLC**
Well: **Juice Bud State Com 502H**
County: **Lea County**
State: **New Mexico**
Field: **Ojo Chisco, Bone Spring**
API: **30-025-44967**
Rig: **H&P 650**
Service Co: **Gordon Technologies, LLC.**
Job #: **GT180388 / AEP-18134**
Survey Calc: **Minimum Curvature**

Well Surface Location
Latitude: **32.458681 N**
Longitude: **103.511179 W**
Reference: **NAD 1983**
Y (Northing) **531575.49**
X (Easting) **794922.22**
Field Engr: **Fidel Garcia**
Devin Lukowski

Report Date **Aug 27 2018**
Time: **12:00**
Mag Reference: **True North**
Mag Correction: **6.82**
Vert Sect. Azi: **2.75°**
Perm Datum **Mean Sea Level**
Depth Ref **Rotary Table**
RKB Height: **25'**
GL Elev: **3743'**

	0	0	0	0	0	0	0	0.00	0.00	0	0		
Tie In	0	0	0	0	0	0	0	0.00	0.00	0	0		
1	229.00	0.23	275.27	229.00	0.02	0.04	-0.46	0.46	275.27	229.00	0.10	84.90	Gordon MWD
2	318.00	0.22	311.24	318.00	0.13	0.17	-0.76	0.78	282.63	89.00	0.16	84.90	Gordon MWD
3	502.00	0.16	244.33	502.00	0.23	0.29	-1.26	1.29	283.07	184.00	0.12	92.00	Gordon MWD
4	594.00	0.12	247.30	594.00	0.13	0.20	-1.47	1.48	277.77	92.00	0.04	92.00	Gordon MWD
5	684.00	0.06	195.91	684.00	0.04	0.12	-1.57	1.57	274.32	90.00	0.11	92.00	Gordon MWD
6	775.00	0.03	57.51	775.00	0.01	0.09	-1.56	1.56	273.13	91.00	0.09	99.10	Gordon MWD
7	866.00	0.09	128.86	866.00	-0.02	0.05	-1.48	1.48	272.06	91.00	0.09	99.10	Gordon MWD
8	960.00	0.16	182.74	960.00	-0.19	-0.12	-1.43	1.44	265.04	94.00	0.14	99.10	Gordon MWD
9	1054.00	0.17	158.04	1054.00	-0.45	-0.38	-1.39	1.44	254.49	94.00	0.08	99.10	Gordon MWD
10	1148.00	0.20	148.45	1148.00	-0.71	-0.65	-1.25	1.41	242.35	94.00	0.05	99.10	Gordon MWD
11	1242.00	0.08	108.81	1242.00	-0.87	-0.81	-1.10	1.37	233.47	94.00	0.16	106.30	Gordon MWD
12	1336.00	0.08	26.27	1336.00	-0.82	-0.78	-1.01	1.27	232.39	94.00	0.11	106.30	Gordon MWD
13	1430.00	0.06	17.23	1430.00	-0.72	-0.67	-0.97	1.18	235.19	94.00	0.02	106.30	Gordon MWD
14	1523.00	0.04	290.46	1523.00	-0.66	-0.61	-0.98	1.16	237.99	93.00	0.08	99.10	Gordon MWD
15	1617.00	0.06	217.50	1617.00	-0.69	-0.64	-1.04	1.22	238.40	94.00	0.07	99.10	Gordon MWD
16	1711.00	0.08	137.26	1711.00	-0.78	-0.73	-1.03	1.26	234.67	94.00	0.10	106.30	Gordon MWD
17	1805.00	0.10	94.47	1804.99	-0.83	-0.78	-0.90	1.19	229.02	94.00	0.07	106.30	Gordon MWD
18	1849.00	0.14	61.28	1848.99	-0.80	-0.76	-0.82	1.11	227.02	44.00	0.18	106.30	Gordon MWD
19	1969.00	0.26	81.29	1968.99	-0.67	-0.65	-0.42	0.77	212.81	120.00	0.11	99.10	Gordon MWD
20	2063.00	0.09	71.65	2062.99	-0.60	-0.59	-0.14	0.61	193.01	94.00	0.18	106.30	Gordon MWD
21	2157.00	0.56	52.31	2156.99	-0.27	-0.29	0.30	0.41	134.21	94.00	0.51	113.40	Gordon MWD

22	2251.00	0.51	49.41	2250.99	0.31	0.26	0.98	1.01	74.87	94.00	0.06	113.40	Gordon MWD
23	2345.00	0.45	42.39	2344.98	0.88	0.81	1.54	1.74	62.34	94.00	0.09	113.40	Gordon MWD
24	2439.00	0.29	42.49	2438.98	1.35	1.26	1.95	2.32	57.24	94.00	0.17	113.40	Gordon MWD
25	2533.00	0.26	51.39	2532.98	1.67	1.57	2.28	2.77	55.53	94.00	0.06	120.60	Gordon MWD
26	2627.00	0.42	40.76	2626.98	2.09	1.96	2.67	3.31	53.75	94.00	0.18	120.60	Gordon MWD
27	2721.00	0.39	19.67	2720.98	2.66	2.52	3.01	3.92	50.00	94.00	0.16	113.40	Gordon MWD
28	2815.00	0.39	21.13	2814.97	3.27	3.12	3.23	4.49	45.96	94.00	0.01	113.40	Gordon MWD
29	2909.00	0.14	16.64	2908.97	3.69	3.53	3.38	4.89	43.73	94.00	0.27	120.60	Gordon MWD
30	3003.00	0.40	36.14	3002.97	4.07	3.91	3.60	5.31	42.70	94.00	0.29	120.60	Gordon MWD
31	3098.00	0.37	50.75	3097.97	4.56	4.37	4.04	5.95	42.75	95.00	0.11	120.60	Gordon MWD
32	3191.00	0.40	45.55	3190.97	4.99	4.78	4.50	6.57	43.25	93.00	0.05	120.60	Gordon MWD
33	3285.00	0.52	83.48	3284.97	5.30	5.06	5.16	7.23	45.54	94.00	0.34	120.60	Gordon MWD
34	3380.00	0.93	82.45	3379.96	5.51	5.21	6.35	8.22	50.62	95.00	0.43	120.60	Gordon MWD
35	3474.00	1.15	73.73	3473.94	5.96	5.58	8.01	9.76	55.16	94.00	0.29	120.60	Gordon MWD
36	3568.00	1.10	59.68	3567.92	6.76	6.30	9.70	11.56	57.00	94.00	0.30	120.70	Gordon MWD
37	3661.00	1.37	71.14	3660.90	7.65	7.11	11.52	13.54	58.33	93.00	0.39	120.60	Gordon MWD
38	3755.00	1.54	78.81	3754.87	8.37	7.72	13.82	15.83	60.83	94.00	0.27	120.60	Gordon MWD
39	3849.00	1.19	81.54	3848.85	8.86	8.10	16.03	17.96	63.18	94.00	0.38	120.60	Gordon MWD
40	3943.00	1.05	80.75	3942.83	9.23	8.39	17.84	19.72	64.83	94.00	0.15	120.60	Gordon MWD
41	4037.00	1.04	117.93	4036.81	9.05	8.13	19.45	21.08	67.32	94.00	0.71	113.40	Gordon MWD
42	4131.00	1.23	121.40	4130.79	8.20	7.20	21.06	22.26	71.13	94.00	0.21	113.40	Gordon MWD
43	4225.00	1.14	134.40	4224.77	7.10	6.02	22.59	23.38	75.08	94.00	0.30	113.40	Gordon MWD
44	4319.00	1.17	122.57	4318.76	6.00	4.85	24.07	24.55	78.61	94.00	0.26	120.60	Gordon MWD
45	4413.00	1.17	102.79	4412.74	5.35	4.12	25.81	26.14	80.93	94.00	0.43	120.60	Gordon MWD
46	4507.00	2.46	95.72	4506.69	5.08	3.71	28.76	28.99	82.65	94.00	1.39	120.60	Gordon MWD
47	4600.00	4.23	97.56	4599.53	4.69	3.06	34.14	34.28	84.88	93.00	1.91	113.40	Gordon MWD
48	4694.00	4.65	109.33	4693.24	3.31	1.34	41.17	41.20	88.14	94.00	1.06	113.40	Gordon MWD
49	4788.00	4.93	119.90	4786.92	0.38	-1.94	48.27	48.31	92.30	94.00	0.98	113.40	Gordon MWD
50	4883.00	5.36	130.77	4881.54	-4.21	-6.87	55.17	55.60	97.10	95.00	1.12	113.40	Gordon MWD
51	4977.00	5.14	128.52	4975.14	-9.38	-12.36	61.79	63.01	101.31	94.00	0.32	113.40	Gordon MWD
52	5071.00	5.12	131.10	5068.77	-14.44	-17.74	68.24	70.51	104.57	94.00	0.25	113.40	Gordon MWD
53	5165.00	5.24	132.91	5162.38	-19.81	-23.42	74.55	78.14	107.44	94.00	0.22	106.30	Gordon MWD
54	5259.00	5.54	133.93	5255.97	-25.57	-29.49	80.96	86.16	110.01	94.00	0.34	113.40	Gordon MWD
55	5353.00	5.71	133.09	5349.51	-31.58	-35.83	87.64	94.68	112.24	94.00	0.20	120.60	Gordon MWD
56	5447.00	5.84	133.80	5443.04	-37.75	-42.33	94.51	103.56	114.13	94.00	0.16	120.60	Gordon MWD
57	5484.00	5.82	134.61	5479.85	-40.24	-44.95	97.20	107.10	114.82	37.00	0.23	120.60	Gordon MWD
58	5579.00	5.70	134.31	5574.37	-46.58	-51.63	104.01	116.12	116.40	95.00	0.13	113.40	Gordon MWD
59	5632.00	5.78	136.39	5627.10	-50.17	-55.40	107.73	121.15	117.22	53.00	0.42	113.40	Gordon MWD
60	5726.00	5.87	135.08	5720.62	-56.67	-62.23	114.39	130.23	118.55	94.00	0.17	120.60	Gordon MWD
61	5820.00	5.77	136.34	5814.13	-63.17	-69.06	121.05	139.36	119.70	94.00	0.17	120.60	Gordon MWD
62	5914.00	5.89	134.41	5907.64	-69.63	-75.85	127.76	148.58	120.70	94.00	0.24	120.60	Gordon MWD
63	6008.00	6.21	135.22	6001.12	-76.27	-82.83	134.78	158.20	121.57	94.00	0.35	120.60	Gordon MWD
64	6102.00	6.36	135.66	6094.56	-83.25	-90.17	142.00	168.21	122.41	94.00	0.17	120.40	Gordon MWD

65	6196.00	6.36	134.61	6187.98	-90.27	-97.55	149.35	178.38	123.15	94.00	0.12	120.60	Gordon MWD
66	6290.00	6.51	133.32	6281.38	-97.21	-104.86	156.93	188.74	123.75	94.00	0.22	120.60	Gordon MWD
67	6384.00	6.54	133.78	6374.78	-104.19	-112.22	164.67	199.27	124.27	94.00	0.06	120.60	Gordon MWD
68	6478.00	6.47	134.01	6468.17	-111.20	-119.60	172.35	209.78	124.76	94.00	0.08	120.60	Gordon MWD
69	6572.00	5.88	129.02	6561.63	-117.54	-126.31	179.90	219.81	125.07	94.00	0.85	120.60	Gordon MWD
70	6666.00	5.96	127.34	6655.12	-123.16	-132.30	187.52	229.49	125.21	94.00	0.20	120.60	Gordon MWD
71	6760.00	6.28	127.27	6748.59	-128.84	-138.38	195.49	239.51	125.29	94.00	0.34	120.60	Gordon MWD
72	6854.00	6.54	126.46	6842.00	-134.72	-144.67	203.89	250.00	125.36	94.00	0.29	120.60	Gordon MWD
73	6948.00	5.86	122.71	6935.45	-140.09	-150.45	212.23	260.15	125.33	94.00	0.84	120.60	Gordon MWD
74	7042.00	5.80	119.31	7028.96	-144.61	-155.37	220.41	269.66	125.18	94.00	0.37	127.70	Gordon MWD
75	7137.00	5.73	123.31	7123.48	-149.17	-160.32	228.56	279.18	125.05	95.00	0.43	127.70	Gordon MWD
76	7230.00	5.67	125.46	7216.02	-154.01	-165.53	236.18	288.41	125.03	93.00	0.24	127.70	Gordon MWD
77	7324.00	5.89	124.93	7309.55	-159.09	-170.99	243.92	297.88	125.03	94.00	0.24	127.70	Gordon MWD
78	7418.00	5.98	123.37	7403.04	-164.15	-176.44	251.96	307.60	125.00	94.00	0.20	127.70	Gordon MWD
79	7512.00	6.08	124.85	7496.52	-169.29	-181.98	260.13	317.47	124.98	94.00	0.20	127.70	Gordon MWD
80	7606.00	6.45	125.64	7589.96	-174.80	-187.90	268.51	327.73	124.98	94.00	0.40	127.70	Gordon MWD
81	7700.00	5.58	121.48	7683.44	-179.87	-193.37	276.70	337.57	124.95	94.00	1.03	127.70	Gordon MWD
82	7794.00	5.14	116.42	7777.03	-183.76	-197.63	284.37	346.30	124.80	94.00	0.69	127.70	Gordon MWD
83	7888.00	5.33	115.46	7870.64	-187.13	-201.38	292.08	354.77	124.58	94.00	0.22	127.70	Gordon MWD
84	7982.00	5.28	113.26	7964.24	-190.33	-204.96	300.00	363.33	124.34	94.00	0.22	127.70	Gordon MWD
85	8075.00	5.39	115.38	8056.83	-193.51	-208.52	307.87	371.84	124.11	93.00	0.24	127.70	Gordon MWD
86	8169.00	5.58	116.37	8150.40	-197.04	-212.45	315.96	380.74	123.92	94.00	0.23	127.70	Gordon MWD
87	8263.00	5.47	115.70	8243.97	-200.62	-216.42	324.09	389.71	123.73	94.00	0.14	127.70	Gordon MWD
88	8357.00	5.19	113.15	8337.56	-203.85	-220.03	332.03	398.32	123.53	94.00	0.39	127.70	Gordon MWD
89	8451.00	5.14	111.26	8431.18	-206.67	-223.23	339.87	406.62	123.30	94.00	0.19	127.70	Gordon MWD
90	8545.00	3.97	119.31	8524.88	-209.46	-226.35	346.63	413.99	123.14	94.00	1.42	127.70	Gordon MWD
91	8639.00	2.81	134.49	8618.72	-212.45	-229.56	351.11	419.50	123.18	94.00	1.55	127.70	Gordon MWD
92	8733.00	1.71	160.01	8712.65	-215.28	-232.49	353.23	422.88	123.35	94.00	1.56	127.70	Gordon MWD
93	8827.00	0.77	184.86	8806.62	-217.20	-234.44	353.66	424.31	123.54	94.00	1.13	127.70	Gordon MWD
94	8921.00	0.49	239.39	8900.62	-218.05	-235.27	353.26	424.44	123.66	94.00	0.67	127.70	Gordon MWD
95	9015.00	0.69	240.86	8994.61	-218.57	-235.75	352.42	424.01	123.78	94.00	0.21	127.70	Gordon MWD
96	9109.00	0.60	226.69	9088.61	-219.23	-236.37	351.57	423.64	123.91	94.00	0.19	127.70	Gordon MWD
97	9203.00	0.78	238.95	9182.60	-219.94	-237.04	350.66	423.26	124.06	94.00	0.25	134.90	Gordon MWD
98	9297.00	1.09	251.59	9276.59	-220.62	-237.65	349.27	422.45	124.23	94.00	0.39	134.90	Gordon MWD
99	9391.00	1.25	255.30	9370.57	-221.25	-238.19	347.43	421.23	124.43	94.00	0.19	134.90	Gordon MWD
100	9485.00	1.31	240.01	9464.54	-222.14	-238.99	345.50	420.10	124.67	94.00	0.37	134.90	Gordon MWD
101	9579.00	0.91	219.22	9558.53	-223.32	-240.10	344.10	419.59	124.91	94.00	0.60	134.90	Gordon MWD
102	9673.00	0.88	206.68	9652.52	-224.58	-241.33	343.30	419.64	125.11	94.00	0.21	134.90	Gordon MWD
103	9768.00	0.71	179.72	9747.51	-225.83	-242.57	342.98	420.09	125.27	95.00	0.43	134.90	Gordon MWD
104	9861.00	0.73	165.21	9840.50	-226.97	-243.72	343.13	420.88	125.38	93.00	0.20	134.90	Gordon MWD
105	9955.00	0.79	239.17	9934.49	-227.90	-244.63	342.73	421.08	125.52	94.00	0.97	142.00	Gordon MWD
106	10050.00	0.71	281.52	10029.49	-228.17	-244.84	341.59	420.28	125.63	95.00	0.58	142.00	Gordon MWD
107	10144.00	0.42	268.44	10123.48	-228.11	-244.74	340.68	419.47	125.69	94.00	0.34	142.00	Gordon MWD

108	10238.00	0.66	262.09	10217.48	-228.24	-244.82	339.80	418.81	125.77	94.00	0.26	142.00	Gordon MWD
109	10331.00	0.90	245.26	10310.47	-228.67	-245.20	338.60	418.06	125.91	93.00	0.35	142.00	Gordon MWD
110	10354.00	0.94	242.78	10333.46	-228.85	-245.36	338.27	417.89	125.96	23.00	0.25	142.00	Gordon MWD
111	10445.00	1.96	16.92	10424.45	-227.71	-244.22	338.06	417.04	125.84	91.00	2.97	134.90	Gordon MWD
112	10476.00	7.32	20.13	10455.34	-225.31	-241.85	338.89	416.34	125.51	31.00	17.30	134.90	Gordon MWD
113	10508.00	12.07	23.73	10486.87	-220.24	-236.87	340.94	415.15	124.79	32.00	14.96	134.90	Gordon MWD
114	10539.00	15.75	18.92	10516.96	-213.17	-229.92	343.61	413.44	123.79	31.00	12.43	134.90	Gordon MWD
115	10571.00	20.53	15.08	10547.36	-203.51	-220.39	346.48	410.64	122.46	32.00	15.39	134.90	Gordon MWD
116	10602.00	24.72	10.14	10575.97	-191.77	-208.75	349.04	406.70	120.88	31.00	14.83	134.90	Gordon MWD
117	10633.00	27.46	6.31	10603.81	-178.20	-195.27	350.97	401.63	119.09	31.00	10.37	134.90	Gordon MWD
118	10665.00	30.10	4.41	10631.86	-162.82	-179.93	352.39	395.67	117.05	32.00	8.73	134.90	Gordon MWD
119	10696.00	32.93	5.03	10658.28	-146.62	-163.78	353.73	389.81	114.84	31.00	9.19	134.90	Gordon MWD
120	10727.00	35.31	2.15	10683.94	-129.24	-146.43	354.81	383.84	112.43	31.00	9.28	134.90	Gordon MWD
121	10774.00	39.12	356.48	10721.38	-100.90	-118.04	354.40	373.55	108.42	47.00	10.90	134.90	Gordon MWD
122	10794.00	41.41	355.60	10736.64	-88.06	-105.15	353.51	368.82	106.56	20.00	11.80	134.90	Gordon MWD
123	10821.00	44.42	355.29	10756.41	-69.83	-86.82	352.05	362.60	103.85	27.00	11.18	127.70	Gordon MWD
124	10868.00	49.11	355.52	10788.60	-35.88	-52.70	349.31	353.26	98.58	47.00	9.99	134.90	Gordon MWD
125	10916.00	51.26	358.89	10819.33	0.81	-15.89	347.53	347.89	92.62	48.00	7.01	134.90	Gordon MWD
126	10963.00	55.51	358.34	10847.36	38.42	21.82	346.61	347.30	86.40	47.00	9.09	134.90	Gordon MWD
127	11010.00	59.50	358.97	10872.60	77.96	61.44	345.69	351.10	79.92	47.00	8.56	134.90	Gordon MWD
128	11057.00	62.86	359.22	10895.26	119.05	102.61	345.04	359.97	73.44	47.00	7.16	134.90	Gordon MWD
129	11104.00	66.06	359.51	10915.52	161.37	145.01	344.57	373.84	67.18	47.00	6.83	134.90	Gordon MWD
130	11151.00	68.70	359.36	10933.59	204.68	188.39	344.14	392.33	61.30	47.00	5.62	134.90	Gordon MWD
131	11198.00	73.67	358.53	10948.75	249.06	232.85	343.32	414.83	55.85	47.00	10.71	134.90	Gordon MWD
132	11227.00	76.34	358.16	10956.25	276.98	260.85	342.51	430.53	52.71	29.00	9.29	134.90	Gordon MWD
133	11321.00	83.49	359.73	10972.70	369.27	353.32	340.82	490.91	43.97	94.00	7.78	136.10	Gordon MWD
134	11353.00	86.47	1.53	10975.50	401.12	385.19	341.17	514.56	41.53	32.00	10.87	137.90	Gordon MWD
135	11384.00	89.33	3.33	10976.64	432.09	416.14	342.48	538.95	39.45	31.00	10.90	137.90	Gordon MWD
136	11416.00	91.43	3.78	10976.43	464.09	448.07	344.47	565.18	37.55	32.00	6.71	140.40	Gordon MWD
137	11447.00	92.16	3.96	10975.45	495.06	478.99	346.56	591.21	35.89	31.00	2.43	139.60	Gordon MWD
138	11510.00	93.14	2.76	10972.54	557.99	541.81	350.25	645.16	32.88	63.00	2.46	143.20	Gordon MWD
139	11555.00	93.87	2.44	10969.79	602.91	586.68	352.29	684.32	30.98	45.00	1.77	144.90	Gordon MWD
140	11604.00	94.12	1.36	10966.38	651.78	635.53	353.91	727.43	29.11	49.00	2.26	146.70	Gordon MWD
141	11698.00	94.40	359.13	10959.39	745.43	729.27	354.31	810.78	25.91	94.00	2.38	147.50	Gordon MWD
142	11730.00	94.51	358.72	10956.91	777.26	761.16	353.71	839.33	24.92	32.00	1.32	148.50	Gordon MWD
143	11761.00	94.32	358.47	10954.52	808.08	792.06	352.95	867.14	24.02	31.00	1.01	148.50	Gordon MWD
144	11779.00	93.00	358.11	10953.37	825.99	810.02	352.41	883.36	23.51	18.00	7.60	148.50	Gordon MWD
145	11792.00	92.35	357.94	10952.77	838.94	823.00	351.97	895.10	23.15	13.00	5.17	148.50	Gordon MWD
146	11824.00	89.97	357.76	10952.12	870.81	854.96	350.77	924.12	22.31	32.00	7.46	150.20	Gordon MWD
147	11855.00	88.29	357.64	10952.59	901.68	885.94	349.52	952.39	21.53	31.00	5.43	150.20	Gordon MWD
148	11887.00	88.57	357.36	10953.46	933.54	917.89	348.13	981.69	20.77	32.00	1.24	150.20	Gordon MWD
149	11980.00	89.47	356.89	10955.06	1026.08	1010.76	343.46	1067.52	18.77	93.00	1.09	151.10	Gordon MWD
150	12075.00	90.17	356.60	10955.35	1120.55	1105.61	338.07	1156.14	17.00	95.00	0.80	154.60	Gordon MWD

151	12169.00	90.64	356.03	10954.69	1213.96	1199.41	332.03	1244.52	15.47	94.00	0.79	155.50	Gordon MWD
152	12263.00	89.27	357.06	10954.76	1307.40	1293.23	326.36	1333.78	14.16	94.00	1.82	154.60	Gordon MWD
153	12357.00	89.83	359.11	10955.50	1401.08	1387.17	323.22	1424.33	13.12	94.00	2.26	154.60	Gordon MWD
154	12388.00	90.03	359.50	10955.54	1432.03	1418.17	322.85	1454.46	12.82	31.00	1.41	155.50	Gordon MWD
155	12419.00	90.34	0.18	10955.44	1462.99	1449.17	322.76	1484.68	12.56	31.00	2.41	152.00	Gordon MWD
156	12450.00	91.23	0.93	10955.01	1493.96	1480.17	323.06	1515.01	12.31	31.00	3.75	154.60	Gordon MWD
157	12481.00	92.61	1.83	10953.98	1524.93	1511.14	323.81	1545.44	12.09	31.00	5.31	154.60	Gordon MWD
158	12513.00	92.86	2.45	10952.45	1556.90	1543.08	325.00	1576.93	11.89	32.00	2.09	155.50	Gordon MWD
159	12544.00	93.25	2.41	10950.80	1587.85	1574.01	326.31	1607.48	11.71	31.00	1.26	158.10	Gordon MWD
160	12576.00	93.62	2.11	10948.88	1619.79	1605.93	327.57	1638.99	11.53	32.00	1.49	157.30	Gordon MWD
161	12607.00	93.47	1.83	10946.96	1650.73	1636.85	328.64	1669.51	11.35	31.00	1.02	157.30	Gordon MWD
162	12639.00	93.90	1.50	10944.91	1682.66	1668.77	329.56	1701.00	11.17	32.00	1.69	157.30	Gordon MWD
163	12670.00	94.18	1.46	10942.72	1713.57	1699.68	330.36	1731.49	11.00	31.00	0.91	157.30	Gordon MWD
164	12701.00	92.27	1.31	10940.98	1744.51	1730.62	331.11	1762.01	10.83	31.00	6.18	158.10	Gordon MWD
165	12733.00	90.45	1.46	10940.22	1776.49	1762.60	331.88	1793.57	10.66	32.00	5.71	158.10	Gordon MWD
166	12778.00	90.22	1.49	10939.96	1821.48	1807.59	333.04	1838.01	10.44	45.00	0.52	158.10	Gordon MWD
167	12827.00	90.70	1.58	10939.56	1870.47	1856.57	334.35	1886.43	10.21	49.00	1.00	161.70	Gordon MWD
168	12872.00	91.12	1.51	10938.85	1915.45	1901.54	335.57	1930.93	10.01	45.00	0.95	161.70	Gordon MWD
169	12921.00	91.34	1.61	10937.80	1964.43	1950.51	336.90	1979.40	9.80	49.00	0.49	161.70	Gordon MWD
170	13015.00	92.41	1.23	10934.72	2058.35	2044.43	339.23	2072.39	9.42	94.00	1.21	162.33	Gordon MWD
171	13109.00	93.34	0.85	10930.01	2152.19	2138.30	340.93	2165.31	9.06	94.00	1.07	161.70	Gordon MWD
172	13140.00	93.67	0.65	10928.11	2183.12	2169.24	341.34	2195.93	8.94	31.00	1.24	161.70	Gordon MWD
173	13171.00	93.22	0.64	10926.25	2214.04	2200.18	341.69	2226.55	8.83	31.00	1.45	161.70	Gordon MWD
174	13203.00	91.93	0.59	10924.81	2245.98	2232.15	342.03	2258.20	8.71	32.00	4.03	161.70	Gordon MWD
175	13297.00	90.39	0.14	10922.91	2339.88	2326.12	342.63	2351.22	8.38	94.00	1.71	165.20	Gordon MWD
176	13390.00	91.32	359.67	10921.52	2432.75	2419.11	342.47	2443.23	8.06	93.00	1.12	165.20	Gordon MWD
177	13484.00	89.16	0.25	10921.13	2526.64	2513.10	342.41	2536.32	7.76	94.00	2.38	164.40	Gordon MWD
178	13578.00	89.80	0.43	10921.98	2620.55	2607.10	342.97	2629.56	7.49	94.00	0.71	165.20	Gordon MWD
179	13672.00	90.28	0.58	10921.91	2714.48	2701.09	343.80	2722.88	7.25	94.00	0.53	168.80	Gordon MWD
180	13766.00	90.56	0.26	10921.22	2808.40	2795.09	344.48	2816.24	7.03	94.00	0.45	168.80	Gordon MWD
181	13860.00	90.95	359.64	10919.99	2902.27	2889.08	344.40	2909.53	6.80	94.00	0.78	167.90	Gordon MWD
182	13954.00	91.29	359.10	10918.15	2996.09	2983.05	343.37	3002.75	6.57	94.00	0.68	165.20	Gordon MWD
183	14048.00	92.27	358.87	10915.23	3089.84	3076.99	341.71	3095.91	6.34	94.00	1.07	165.20	Gordon MWD
184	14142.00	93.19	358.34	10910.75	3183.49	3170.86	339.42	3188.97	6.11	94.00	1.13	165.20	Gordon MWD
185	14236.00	91.51	358.17	10906.90	3277.12	3264.73	336.56	3282.03	5.89	94.00	1.80	168.80	Gordon MWD
186	14330.00	90.48	358.55	10905.26	3370.83	3358.68	333.87	3375.23	5.68	94.00	1.17	296.30	Gordon MWD
187	14424.00	91.09	358.96	10903.98	3464.59	3452.65	331.83	3468.55	5.49	94.00	0.78	168.80	Gordon MWD
188	14518.00	92.63	358.17	10900.93	3558.29	3546.56	329.48	3561.83	5.31	94.00	1.84	168.80	Gordon MWD
189	14612.00	90.76	358.35	10898.15	3651.95	3640.47	326.62	3655.10	5.13	94.00	2.00	168.80	Gordon MWD
190	14706.00	89.41	358.55	10898.01	3745.69	3734.44	324.08	3748.47	4.96	94.00	1.45	172.30	Gordon MWD
191	14800.00	88.68	358.98	10899.57	3839.44	3828.40	322.05	3841.92	4.81	94.00	0.90	106.30	Gordon MWD
192	14894.00	90.67	359.93	10900.11	3933.28	3922.39	321.16	3935.52	4.68	94.00	2.35	158.10	Gordon MWD
193	14940.00	90.76	1.99	10899.53	3979.25	3968.38	321.93	3981.41	4.64	46.00	4.48	160.80	Gordon MWD

194	14989.00	91.48	1.81	10898.57	4028.24	4017.34	323.55	4030.35	4.60	49.00	1.51	159.10	Gordon MWD
195	15083.00	93.36	3.78	10894.60	4122.15	4111.14	328.13	4124.21	4.56	94.00	2.90	162.60	Gordon MWD
196	15177.00	91.32	3.63	10890.77	4216.05	4204.86	334.20	4218.12	4.54	94.00	2.18	165.20	Gordon MWD
197	15271.00	91.43	3.55	10888.51	4310.01	4298.65	340.09	4312.08	4.52	94.00	0.14	165.20	Gordon MWD
198	15365.00	92.41	2.48	10885.36	4403.96	4392.46	345.03	4405.99	4.49	94.00	1.54	168.80	Gordon MWD
199	15459.00	93.73	1.95	10880.33	4497.81	4486.25	348.66	4499.78	4.44	94.00	1.51	167.90	Gordon MWD
200	15553.00	92.33	1.92	10875.36	4591.67	4580.07	351.82	4593.56	4.39	94.00	1.49	168.80	Gordon MWD
201	15647.00	91.37	2.08	10872.32	4685.61	4673.96	355.10	4687.43	4.34	94.00	1.04	168.80	Gordon MWD
202	15741.00	92.02	1.56	10869.54	4779.56	4767.87	358.09	4781.30	4.30	94.00	0.89	168.60	Gordon MWD
203	15835.00	92.91	1.26	10865.50	4873.44	4861.75	360.40	4875.09	4.24	94.00	1.00	172.30	Gordon MWD
204	15929.00	92.24	1.67	10861.28	4967.33	4955.63	362.80	4968.89	4.19	94.00	0.84	168.80	Gordon MWD
205	16023.00	92.88	1.34	10857.08	5061.21	5049.50	365.27	5062.69	4.14	94.00	0.77	172.30	Gordon MWD
206	16117.00	94.03	1.04	10851.41	5155.00	5143.31	367.21	5156.40	4.08	94.00	1.26	172.30	Gordon MWD
207	16213.00	92.58	0.95	10845.88	5250.79	5239.13	368.88	5252.10	4.03	96.00	1.51	161.70	Gordon MWD
208	16275.00	91.68	0.93	10843.58	5312.72	5301.08	369.90	5313.97	3.99	62.00	1.45	161.70	Gordon MWD
209	16307.00	89.03	359.07	10843.38	5344.68	5333.07	369.90	5345.88	3.97	32.00	10.12	165.20	Gordon MWD
210	16401.00	88.94	359.85	10845.04	5438.51	5427.05	369.01	5439.58	3.89	94.00	0.84	166.10	Gordon MWD
211	16495.00	89.41	359.23	10846.40	5532.35	5521.04	368.25	5533.31	3.82	94.00	0.83	168.80	Gordon MWD
212	16589.00	87.98	357.88	10848.54	5626.07	5614.98	365.89	5626.89	3.73	94.00	2.09	168.80	Gordon MWD
213	16683.00	87.81	357.23	10851.99	5719.62	5708.83	361.88	5720.29	3.63	94.00	0.71	169.60	Gordon MWD
214	16777.00	87.70	356.59	10855.67	5813.06	5802.62	356.82	5813.58	3.52	94.00	0.69	172.30	Gordon MWD
215	16871.00	87.93	355.58	10859.26	5906.35	5896.33	350.40	5906.74	3.40	94.00	1.10	171.40	Gordon MWD
216	16966.00	88.23	356.56	10862.44	6000.66	5991.06	343.89	6000.92	3.29	95.00	1.08	171.40	Gordon MWD
217	17060.00	89.27	357.93	10864.49	6094.20	6084.92	339.38	6094.38	3.19	94.00	1.83	173.20	Gordon MWD
218	17154.00	90.11	357.05	10865.00	6187.80	6178.83	335.26	6187.92	3.11	94.00	1.29	174.90	Gordon MWD
219	17248.00	89.50	357.15	10865.32	6281.34	6272.71	330.51	6281.41	3.02	94.00	0.66	176.70	Gordon MWD
220	17340.00	89.66	358.72	10865.99	6373.01	6364.64	327.19	6373.05	2.94	92.00	1.72	174.90	Gordon MWD
221	17434.00	90.06	358.51	10866.22	6466.76	6458.61	324.92	6466.78	2.88	94.00	0.48	176.70	Gordon MWD
222	17528.00	90.06	357.54	10866.12	6560.44	6552.56	321.68	6560.45	2.81	94.00	1.03	178.50	Gordon MWD
223	17622.00	89.27	359.36	10866.67	6654.17	6646.52	319.14	6654.17	2.75	94.00	2.11	176.70	Gordon MWD
224	17716.00	89.38	359.29	10867.78	6748.00	6740.50	318.03	6748.00	2.70	94.00	0.14	178.50	Gordon MWD
225	17810.00	89.72	358.13	10868.52	6841.76	6834.47	315.91	6841.77	2.65	94.00	1.29	178.50	Gordon MWD
226	17904.00	91.09	358.38	10867.85	6935.47	6928.43	313.05	6935.49	2.59	94.00	1.48	176.70	Gordon MWD
227	17998.00	92.05	357.39	10865.28	7029.09	7022.32	309.58	7029.14	2.52	94.00	1.47	178.50	Gordon MWD
228	18092.00	93.33	356.58	10860.87	7122.51	7116.09	304.65	7122.61	2.45	94.00	1.61	178.50	Gordon MWD
229	18187.00	94.23	355.78	10854.60	7216.68	7210.67	298.33	7216.84	2.37	95.00	1.27	180.20	Gordon MWD
230	18209.00	94.57	355.61	10852.92	7238.45	7232.54	296.68	7238.62	2.35	22.00	1.73	178.50	Gordon MWD
Projection	18265.00	94.57	355.61	10848.45	7293.84	7288.20	292.41	7294.06	2.30	56.00	0.00	0.00	