

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

NMOCD-REC'D: 9/18/2020

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT AS-DRILLED PLAT

¹ API Number 30-015- 45135	² Pool Code 97020	³ Pool Name HACKBERRY; BONE SPRING, NW
⁴ Property Code 322180	⁵ Property Name BUTTERCUP 27-34 FEDERAL	⁶ Well Number 3H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 3,293'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	22	19 S	30 E		1,329	SOUTH	2,350	EAST	EDDY

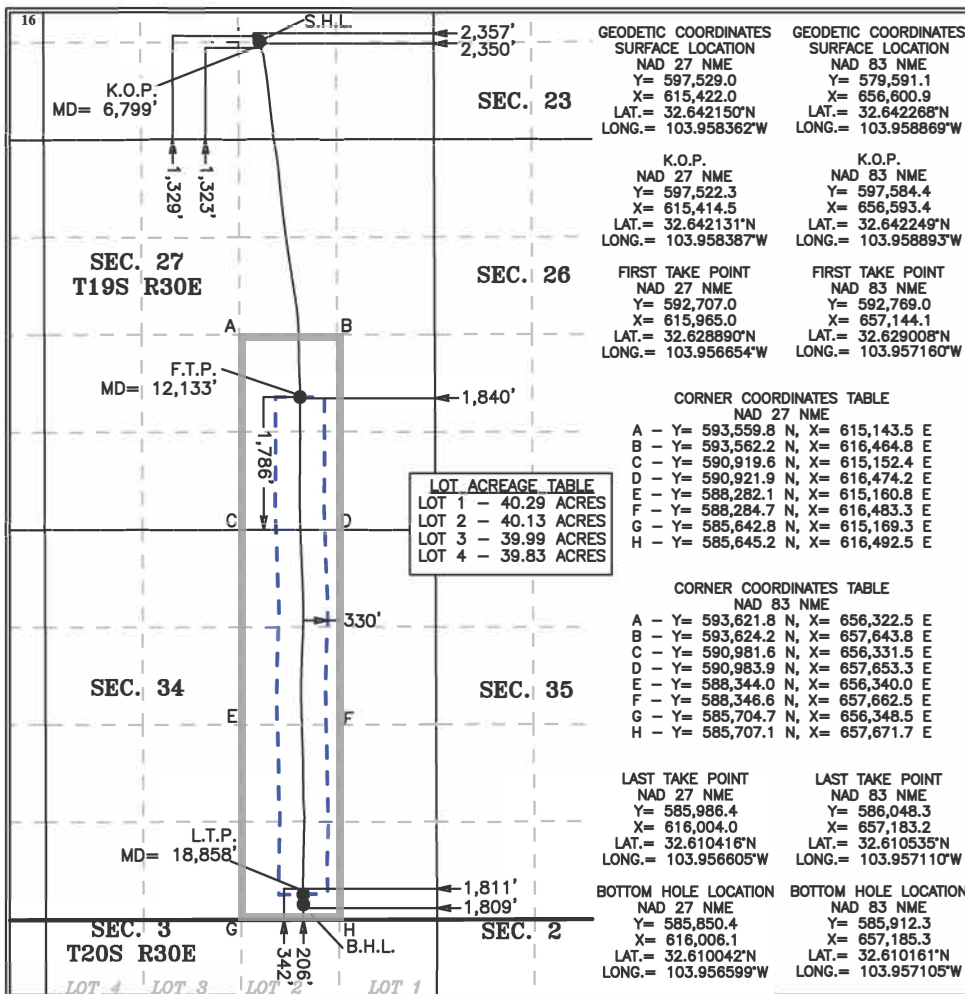
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	34	19 S	30 E		206	SOUTH	1,809	EAST	EDDY

¹² Dedicated Acres 240	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM
DATA FURNISHED BY XTO ENERGY



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cheryl Rowell 12/19/19
Signature Date

Cheryl Rowell

Printed Name

cheryl_rowell@xtoenergy.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

12-18-2019

Date of Survey

Signature and Seal of
Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number



AW/JC

2017091480

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number



State of New Mexico
County of Eddy

I, Jeremy Esqueda, certify that: I am employed by WellBenders Directional Services LLC; that I did on the day(s) of January 3, 2019 through January 18, 2019 conduct or supervise the taking of MWD Directional Survey from a depth of 0 feet to a depth of 4,025 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by WellBenders Directional Services LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO Energy Inc. for the State of New Mexico; Well: Buttercup 27-34 Fed 3H in Eddy County; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by WellBenders Directional Services LLC.

Jeremy Esqueda
(Sign Name)

Jeremy Esqueda
MWD Manager

WELLBENDERS DIRECTIONAL SERVICES

SURVEY REPORT

ADD NEW SURVEY	Customer:	XTO Energy	Rig Name & #:	NABORS F26	Targ True Vert. Depth:	0
	Lease / Well:	BUTTERCUP 27-34 FED 3H	Directional Co:	WELLBENDERS	Magnetic Declination:	6.9
	Field / Block:	DELEWARE	Targ Meas Depth:	0	Target Vertical Section:	0.00

Enter your Tie-In information on the coversheet!

v1.3

DATE	NO.	DEPTH	INC	AZM	CL	TVD	VS	+N / -S	+E / -W	DLS	B / D	WALK	SOURCE
	30	2802	1.2	238.1	94	2801.66	-14.10	14.10 S	36.29 W	0.18	-0.14	5.15	WellBenders
	31	2897	1.6	231.1	95	2896.63	-15.45	15.45 S	38.15 W	0.45	0.41	-7.37	WellBenders
	32	2991	1.6	202.9	94	2990.59	-17.46	17.46 S	39.66 W	0.82	0.00	-29.96	WellBenders
	33	3023	1.9	185.9	32	3022.58	-18.39	18.39 S	39.89 W	1.87	0.97	-53.25	WellBenders
	34	3083	2.7	152.3	60	3082.53	-20.61	20.61 S	39.34 W	2.54	1.32	-55.98	WellBenders
	35	3177	3.7	147.0	94	3176.39	-25.10	25.10 S	36.67 W	1.12	1.07	-5.61	WellBenders
	36	3275	3.9	140.6	98	3274.17	-30.33	30.33 S	32.84 W	0.49	0.22	-6.55	WellBenders
	37	3369	2.8	134.2	94	3368.01	-34.41	34.41 S	29.15 W	1.24	-1.17	-6.85	WellBenders
	38	3459	2.3	90.5	90	3457.93	-35.96	35.96 S	25.77 W	2.17	-0.58	-48.50	WellBenders
	39	3558	1.9	48.9	99	3556.87	-34.91	34.91 S	22.56 W	1.55	-0.40	-42.08	WellBenders
	40	3652	2.2	36.0	94	3650.81	-32.43	32.43 S	20.33 W	0.59	0.33	-13.65	WellBenders
	41	3746	2.1	32.8	94	3744.74	-29.52	29.52 S	18.34 W	0.16	-0.10	-3.47	WellBenders
	42	3841	2.1	37.4	95	3839.68	-26.66	26.66 S	16.33 W	0.18	0.00	4.91	WellBenders
	43	3935	2.0	36.0	94	3933.62	-23.94	23.94 S	14.30 W	0.11	-0.10	-1.49	WellBenders
	44	4025	2.1	34.7	90	4023.56	-21.30	21.30 S	12.42 W	0.11	0.10	-1.47	WellBenders



MWD SURVEY CERTIFICATION
Gordon Technologies, LLC

State Of Texas

County Of Midland

I, Marcus Mitcham certify that; I am employed by Gordon Technologies, LLC.;
that I did on the day(s) of March 19, 2019 through April 17, 2019 conduct
or supervise the taking of a MWD survey from a depth of 184 feet to a depth of
18,994 feet; that the data is true, correct, complete and within the limitations of the
tool set forth by Gordon Technologies, LLC.; that I am authorized and qualified to make this report;
that this survey was conducted at the request of XTO Energy Incorporated for the
Buttercup 27-34 Federal 3H Well, A.P.I. No. 30-015-45135 in
Hackberry; Bone Spring, NW/HA Field and that I have reviewed this report and find that
it conforms to the principles and procedures set forth by Gordon Technologies, LLC.

Signature

MWD Coordinator

Title



Directional Survey Report

Company: XTO Energy Incorporated	Well Surface Location	Report Date: Apr 17 2019
Well: Buttercup 27-34 Federal 3H	Latitude: 32.64214953	Time: 14:04
County: Eddy	Longitude: -103.9583623	Mag Reference: Grid North
State: NM	Reference: NAD 1927	Mag Correction: 6.77
Field: Hackberry; Bone Spring, NW/HA	Y (Northing): 597,529.00	Vert Sect. Azi: 177.20
API: 30-015-45135	X (Easting): 615,422.00	Perm Datum: Mean Sea Level
Rig: Nabors F-26	Field Engr: Jude Miller	Depth Ref: Rotary Table
Service Co: Gordon Technologies LLC	Kevin Trimble	RKB Height: 30
Job #: GT190304		GL Elev: 3285

Survey Calc: Minimum Curvature

Survey Tie In	MD	Inc	Azimuth	TVD	VS	Rectangular Offsets			Length	DLS	Temp	Closure		Source
						NS	EW					Distance	Azimuth	
1	184.00	0.09	328.10	184.00	-0.13	0.12	-0.08	0	184.00	0.05	0.00	0.14	328.10	ImpSrvs
2	276.00	0.22	356.31	276.00	-0.37	0.36	-0.13	0	92.00	0.16	0.00	0.38	340.74	ImpSrvs
3	366.00	0.48	261.91	366.00	-0.50	0.48	-0.51	0	90.00	0.60	0.00	0.70	313.23	ImpSrvs
4	419.00	0.70	257.61	419.00	-0.43	0.38	-1.05	0	53.00	0.42	0.00	1.11	289.91	ImpSrvs
5	499.00	0.79	245.48	498.99	-0.14	0.05	-2.03	0	80.00	0.23	0.00	2.03	271.28	ImpSrvs
6	616.00	0.70	241.52	615.98	0.46	-0.63	-3.39	0	117.00	0.09	0.00	3.45	259.46	ImpSrvs
7	711.00	1.56	258.66	710.96	0.91	-1.16	-5.17	0	95.00	0.96	0.00	5.29	257.33	ImpSrvs
8	806.00	0.79	255.41	805.94	1.23	-1.58	-7.07	0	95.00	0.81	0.00	7.24	257.39	ImpSrvs
9	987.00	1.01	263.23	986.92	1.60	-2.08	-9.86	0	181.00	0.14	0.00	10.08	258.07	ImpSrvs
10	1017.00	0.88	251.89	1016.91	1.68	-2.19	-10.34	0	30.00	0.76	0.00	10.57	258.06	ImpSrvs
11	1083.00	1.01	263.23	1082.90	1.85	-2.41	-11.40	0	66.00	0.34	0.00	11.65	258.05	ImpSrvs
12	1112.00	0.79	262.71	1111.90	1.89	-2.47	-11.85	0	29.00	0.76	0.00	12.11	258.24	ImpSrvs
13	1198.00	0.88	251.81	1197.89	2.11	-2.75	-13.07	0	86.00	0.21	0.00	13.35	258.12	ImpSrvs
14	1302.00	0.79	256.03	1301.88	2.46	-3.17	-14.52	0	104.00	0.10	0.00	14.86	257.68	ImpSrvs
15	1454.00	1.01	269.03	1453.86	2.62	-3.45	-16.88	0	152.00	0.20	0.00	17.23	258.46	ImpSrvs
16	1501.00	1.01	269.03	1500.85	2.59	-3.46	-17.71	0	47.00	0.00	0.00	18.04	258.94	ImpSrvs
17	1576.00	0.90	264.90	1575.84	2.59	-3.52	-18.95	0	75.00	0.17	0.00	19.28	259.47	ImpSrvs
18	1670.00	0.90	272.90	1669.83	2.55	-3.55	-20.43	0	94.00	0.13	0.00	20.73	260.13	ImpSrvs

19	1757.00	0.90	259.30	1756.82	2.58	-3.64	-21.78	87.00	0.24	0.00	22.08	260.50	ImpSrvs
20	1849.00	0.80	254.20	1848.81	2.82	-3.95	-23.11	92.00	0.14	0.00	23.44	260.29	ImpSrvs
21	1945.00	1.00	248.10	1944.80	3.25	-4.45	-24.53	96.00	0.23	0.00	24.93	259.72	ImpSrvs
22	2040.00	0.80	239.00	2039.79	3.83	-5.10	-25.87	95.00	0.26	0.00	26.37	258.85	ImpSrvs
23	2137.00	0.90	233.20	2136.78	4.58	-5.90	-27.06	97.00	0.14	0.00	27.70	257.69	ImpSrvs
24	2232.00	0.90	237.20	2231.77	5.37	-6.76	-28.28	95.00	0.07	0.00	29.08	256.57	ImpSrvs
25	2332.00	0.90	219.90	2331.75	6.34	-7.78	-29.45	100.00	0.27	0.00	30.46	255.19	ImpSrvs
26	2424.00	1.10	215.80	2423.74	7.56	-9.05	-30.43	92.00	0.23	0.00	31.75	253.43	ImpSrvs
27	2519.00	1.30	220.70	2518.72	9.05	-10.61	-31.66	95.00	0.24	0.00	33.39	251.47	ImpSrvs
28	2613.00	1.10	239.00	2612.70	10.25	-11.88	-33.13	94.00	0.46	0.00	35.20	250.27	ImpSrvs
29	2708.00	1.30	233.30	2707.68	11.28	-13.00	-34.78	95.00	0.24	0.00	37.13	249.51	ImpSrvs
30	2802.00	1.20	238.10	2801.65	12.36	-14.16	-36.47	94.00	0.15	0.00	39.12	248.79	ImpSrvs
31	2897.00	1.60	231.10	2896.63	13.62	-15.51	-38.34	95.00	0.46	0.00	41.36	247.97	ImpSrvs
32	2991.00	1.60	202.90	2990.59	15.58	-17.55	-39.88	94.00	0.83	0.00	43.57	246.25	ImpSrvs
33	3023.00	1.90	185.90	3022.58	16.50	-18.49	-40.11	32.00	1.86	0.00	44.16	245.25	ImpSrvs
34	3083.00	2.70	152.30	3082.53	18.77	-20.73	-39.55	60.00	2.56	0.00	44.65	242.34	ImpSrvs
35	3177.00	3.70	147.00	3176.38	23.40	-25.23	-36.87	94.00	1.11	0.00	44.68	235.62	ImpSrvs
36	3275.00	3.90	140.60	3274.17	28.81	-30.46	-33.03	98.00	0.48	0.00	44.93	227.32	ImpSrvs
37	3369.00	2.80	134.20	3368.01	33.05	-34.53	-29.36	94.00	1.23	0.00	45.32	220.37	ImpSrvs
38	3459.00	2.30	90.50	3457.92	34.77	-36.08	-25.97	90.00	2.17	0.00	44.46	215.75	ImpSrvs
39	3558.00	1.90	48.90	3556.86	33.86	-35.02	-22.75	99.00	1.55	0.00	41.76	213.01	ImpSrvs
40	3652.00	2.20	36.00	3650.80	31.49	-32.53	-20.52	94.00	0.58	0.00	38.46	212.24	ImpSrvs
41	3746.00	2.10	32.80	3744.74	28.68	-29.62	-18.52	94.00	0.17	0.00	34.94	212.02	ImpSrvs
42	3841.00	2.10	37.40	3839.67	25.94	-26.78	-16.52	95.00	0.18	0.00	31.47	211.68	ImpSrvs
43	3935.00	2.00	36.00	3933.61	23.35	-24.08	-14.51	94.00	0.12	0.00	28.12	211.07	ImpSrvs
44	4025.00	2.10	34.70	4023.56	20.81	-21.46	-12.65	90.00	0.12	0.00	24.91	210.52	ImpSrvs
45	4089.00	2.18	43.52	4087.51	19.04	-19.61	-11.15	64.00	0.53	86.71	22.56	209.61	MWD Run 1
46	4184.00	2.12	47.49	4182.44	16.67	-17.11	-8.61	95.00	0.17	95.53	19.15	206.70	MWD Run 1
47	4278.00	1.74	50.10	4276.39	14.70	-15.02	-6.23	94.00	0.41	104.35	16.26	202.52	MWD Run 1
48	4373.00	1.37	36.54	4371.36	12.95	-13.19	-4.45	95.00	0.55	109.65	13.91	198.64	MWD Run 1
49	4468.00	1.40	28.32	4466.33	11.08	-11.25	-3.22	95.00	0.21	113.18	11.70	195.97	MWD Run 1
50	4562.00	1.25	26.94	4560.30	9.21	-9.33	-2.21	94.00	0.16	116.71	9.58	193.33	MWD Run 1
51	4656.00	1.18	23.16	4654.28	7.45	-7.52	-1.37	94.00	0.11	118.47	7.65	190.29	MWD Run 1
52	4750.00	1.14	20.22	4748.26	5.72	-5.75	-0.66	94.00	0.08	122.00	5.79	186.56	MWD Run 1
53	4844.00	1.09	17.37	4842.25	4.02	-4.02	-0.07	94.00	0.08	123.76	4.02	181.02	MWD Run 1
54	4938.00	0.95	21.38	4936.23	2.47	-2.45	0.48	94.00	0.17	123.76	2.49	168.90	MWD Run 1
55	5032.00	1.00	20.56	5030.22	1.00	-0.95	1.05	94.00	0.06	125.53	1.42	132.13	MWD Run 1
56	5127.00	0.99	15.11	5125.20	-0.54	0.62	1.56	95.00	0.10	127.29	1.67	68.38	MWD Run 1

57	5221.00	0.91	13.16	5219.19	-2.03	2.13	1.94	94.00	0.09	113.18	2.88	42.33	MWD Run 1
58	5316.00	0.98	14.71	5314.18	-3.53	3.65	2.32	95.00	0.08	113.18	4.32	32.42	MWD Run 1
59	5410.00	1.03	10.87	5408.16	-5.12	5.26	2.68	94.00	0.09	116.71	5.90	27.02	MWD Run 1
60	5505.00	0.97	13.36	5503.15	-6.72	6.88	3.03	95.00	0.08	120.24	7.51	23.76	MWD Run 1
61	5600.00	1.11	12.86	5598.13	-8.38	8.56	3.42	95.00	0.15	123.76	9.21	21.77	MWD Run 1
62	5694.00	0.88	11.56	5692.12	-9.95	10.15	3.76	94.00	0.25	125.53	10.83	20.35	MWD Run 1
63	5789.00	0.82	355.70	5787.11	-11.34	11.54	3.86	95.00	0.25	125.53	12.17	18.49	MWD Run 1
64	5884.00	0.79	303.89	5882.10	-12.41	12.59	3.27	95.00	0.74	129.06	13.00	14.54	MWD Run 1
65	5979.00	0.92	287.51	5977.09	-13.07	13.18	1.99	95.00	0.29	130.82	13.33	8.60	MWD Run 1
66	6073.00	1.05	266.61	6071.08	-13.32	13.36	0.41	94.00	0.40	132.59	13.36	1.78	MWD Run 1
67	6168.00	0.94	269.89	6166.06	-13.35	13.30	-1.23	95.00	0.13	136.12	13.36	354.70	MWD Run 1
68	6263.00	1.07	254.05	6261.05	-13.18	13.06	-2.87	95.00	0.32	139.65	13.37	347.62	MWD Run 1
69	6358.00	1.31	241.42	6356.03	-12.51	12.30	-4.67	95.00	0.37	134.35	13.15	339.20	MWD Run 1
70	6452.00	1.29	258.58	6450.00	-11.88	11.57	-6.65	94.00	0.41	137.88	13.35	330.11	MWD Run 1
71	6546.00	1.73	193.49	6543.98	-10.36	9.98	-8.02	94.00	1.77	139.65	12.81	321.22	MWD Run 1
72	6639.00	3.33	180.24	6636.88	-6.32	5.92	-8.36	93.00	1.82	139.65	10.24	305.29	MWD Run 1
73	6733.00	3.69	182.13	6730.71	-0.58	0.16	-8.48	94.00	0.40	139.65	8.49	271.10	MWD Run 1
74	6746.00	3.60	185.34	6743.68	0.24	-0.66	-8.54	13.00	1.72	104.35	8.56	265.57	MWD Run 2
75	6841.00	9.83	165.12	6837.99	11.14	-11.48	-6.73	95.00	6.92	109.65	13.31	210.38	MWD Run 2
76	6887.00	17.71	163.62	6882.63	21.80	-22.00	-3.74	46.00	17.15	113.18	22.32	189.66	MWD Run 2
77	6934.00	21.54	162.74	6926.90	37.10	-37.11	0.83	47.00	8.17	116.71	37.12	178.71	MWD Run 2
78	6980.00	26.04	163.16	6968.98	55.09	-54.85	6.27	46.00	9.79	118.47	55.20	173.48	MWD Run 2
79	7029.00	31.06	164.42	7012.01	77.86	-77.33	12.78	49.00	10.32	120.24	78.38	170.61	MWD Run 2
80	7075.00	33.74	165.37	7050.84	101.94	-101.13	19.20	46.00	5.93	120.24	102.93	169.25	MWD Run 2
81	7123.00	33.27	168.31	7090.87	128.00	-126.92	25.23	48.00	3.52	120.24	129.40	168.76	MWD Run 2
82	7169.00	33.94	168.34	7129.18	153.15	-151.85	30.38	46.00	1.46	120.24	154.86	168.69	MWD Run 2
83	7218.00	35.24	170.46	7169.52	180.71	-179.19	35.49	49.00	3.62	122.00	182.67	168.80	MWD Run 2
84	7264.00	38.21	171.43	7206.38	208.05	-206.35	39.81	46.00	6.58	123.76	210.16	169.08	MWD Run 2
85	7311.00	42.27	171.92	7242.25	238.27	-236.39	44.20	47.00	8.66	122.00	240.49	169.41	MWD Run 2
86	7357.00	45.77	172.84	7275.33	270.11	-268.07	48.43	46.00	7.73	120.24	272.41	169.76	MWD Run 2
87	7406.00	49.33	173.69	7308.40	306.18	-303.97	52.66	49.00	7.38	123.76	308.50	170.17	MWD Run 2
88	7452.00	54.71	173.36	7336.69	342.35	-339.98	56.76	46.00	11.71	125.53	344.69	170.52	MWD Run 2
89	7499.00	61.03	171.89	7361.68	382.00	-379.43	61.88	47.00	13.70	125.53	384.44	170.74	MWD Run 2
90	7545.00	66.09	170.00	7382.15	422.92	-420.09	68.37	46.00	11.60	125.53	425.61	170.76	MWD Run 2
91	7593.00	72.12	168.18	7399.27	467.29	-464.09	76.87	48.00	13.05	127.29	470.42	170.60	MWD Run 2
92	7633.00	77.44	171.71	7409.77	505.56	-502.08	83.59	40.00	15.79	129.06	508.99	170.55	MWD Run 2
93	7686.00	77.85	172.22	7421.11	557.12	-553.34	90.83	53.00	1.22	129.06	560.75	170.68	MWD Run 2
94	7780.00	74.91	173.09	7443.24	648.18	-643.94	102.51	94.00	3.25	129.06	652.05	170.95	MWD Run 2

95	7876.00	72.92	173.77	7469.84	740.22	-735.57	113.07	96.00	2.18	132.59	744.21	171.26	MWD Run 2
96	7970.00	71.12	174.82	7498.85	829.50	-824.53	121.96	94.00	2.19	134.35	833.50	171.59	MWD Run 2
97	8065.00	70.61	175.43	7530.00	919.20	-913.96	129.59	95.00	0.81	132.59	923.10	171.93	MWD Run 2
98	8160.00	70.80	173.80	7561.39	1008.76	-1003.22	138.00	95.00	1.63	136.12	1012.67	172.17	MWD Run 2
99	8254.00	72.82	171.42	7590.73	1097.77	-1091.77	149.50	94.00	3.23	137.88	1101.96	172.20	MWD Run 2
100	8349.00	74.42	170.17	7617.53	1188.34	-1181.73	164.08	95.00	2.10	139.65	1193.07	172.10	MWD Run 2
101	8445.00	76.37	170.81	7641.73	1280.59	-1273.35	179.42	96.00	2.13	143.18	1285.93	171.98	MWD Run 2
102	8540.00	76.06	170.28	7664.37	1372.24	-1364.36	194.58	95.00	0.63	144.94	1378.17	171.88	MWD Run 2
103	8635.00	75.12	170.09	7688.01	1463.56	-1455.02	210.26	95.00	1.01	122.00	1470.14	171.78	MWD Run 3
104	8730.00	76.21	171.82	7711.53	1555.05	-1545.92	224.73	95.00	2.10	125.53	1562.17	171.73	MWD Run 3
105	8824.00	76.76	172.53	7733.50	1646.09	-1636.46	237.17	94.00	0.94	129.06	1653.56	171.75	MWD Run 3
106	8919.00	75.86	173.59	7755.98	1738.15	-1728.08	248.33	95.00	1.44	130.82	1745.83	171.82	MWD Run 3
107	9013.00	74.39	174.62	7780.11	1828.86	-1818.45	257.66	94.00	1.89	132.59	1836.61	171.94	MWD Run 3
108	9107.00	75.40	174.30	7804.61	1919.51	-1908.78	266.42	94.00	1.12	132.59	1927.28	172.05	MWD Run 3
109	9202.00	74.28	174.65	7829.45	2011.10	-2000.04	275.25	95.00	1.23	134.35	2018.89	172.16	MWD Run 3
110	9297.00	74.91	174.17	7854.69	2102.58	-2091.19	284.17	95.00	0.82	136.12	2110.41	172.26	MWD Run 3
111	9392.00	75.52	174.44	7878.93	2194.31	-2182.59	293.29	95.00	0.70	139.65	2202.21	172.35	MWD Run 3
112	9486.00	74.01	175.15	7903.63	2284.93	-2272.91	301.52	94.00	1.76	141.41	2292.82	172.44	MWD Run 3
113	9580.00	71.92	173.47	7931.17	2374.68	-2362.34	310.42	94.00	2.80	137.88	2382.65	172.51	MWD Run 3
114	9675.00	72.72	171.66	7960.02	2464.89	-2452.08	322.14	95.00	2.00	139.65	2473.15	172.52	MWD Run 3
115	9770.00	78.17	171.59	7983.89	2556.37	-2543.02	335.52	95.00	5.74	143.18	2565.06	172.48	MWD Run 3
116	9864.00	78.08	171.39	8003.23	2647.91	-2634.00	349.14	94.00	0.23	144.94	2657.03	172.45	MWD Run 3
117	9958.00	75.26	171.96	8024.90	2738.94	-2724.49	362.38	94.00	3.06	146.71	2748.48	172.42	MWD Run 3
118	10053.00	74.54	172.13	8049.65	2830.29	-2815.33	375.07	95.00	0.78	146.71	2840.20	172.41	MWD Run 3
119	10147.00	75.72	170.62	8073.77	2920.66	-2905.15	388.70	94.00	2.00	144.94	2931.03	172.38	MWD Run 3
120	10260.00	76.24	171.87	8101.15	3029.70	-3013.50	405.39	113.00	1.17	130.82	3040.64	172.34	MWD Run 4
121	10354.00	76.52	171.37	8123.29	3120.63	-3103.88	418.70	94.00	0.60	137.88	3131.99	172.32	MWD Run 4
122	10450.00	77.17	170.80	8145.13	3213.58	-3196.23	433.19	96.00	0.89	139.65	3225.45	172.28	MWD Run 4
123	10544.00	74.71	171.10	8167.97	3304.21	-3286.27	447.53	94.00	2.64	143.18	3316.60	172.25	MWD Run 4
124	10639.00	72.35	171.39	8194.90	3394.81	-3376.31	461.40	95.00	2.50	144.94	3407.69	172.22	MWD Run 4
125	10734.00	72.54	170.38	8223.56	3484.84	-3465.74	475.75	95.00	1.03	136.12	3498.24	172.18	MWD Run 5
126	10830.00	73.31	172.64	8251.75	3576.15	-3556.49	489.29	96.00	2.39	148.47	3589.99	172.17	MWD Run 5
127	10923.00	74.77	173.89	8277.32	3665.35	-3645.29	499.77	93.00	2.03	157.29	3679.39	172.19	MWD Run 5
128	11017.00	74.34	174.02	8302.35	3755.81	-3735.39	509.32	94.00	0.48	159.06	3769.95	172.24	MWD Run 5
129	11113.00	69.37	175.94	8332.24	3846.93	-3826.23	517.32	96.00	5.51	144.94	3861.04	172.30	MWD Run 6
130	11207.00	74.33	178.92	8361.52	3936.21	-3915.42	521.29	94.00	6.08	148.47	3949.97	172.42	MWD Run 6
131	11254.00	75.17	179.36	8373.88	3981.53	-3960.76	521.97	47.00	2.00	150.24	3995.01	172.49	MWD Run 6
132	11302.00	77.14	179.42	8385.37	4028.10	-4007.36	522.46	48.00	4.11	150.24	4041.28	172.57	MWD Run 6

133	11396.00	78.43	179.68	8405.26	4119.89	-4099.23	523.18	94.00	1.40	153.76	4132.48	172.73	MWD Run 6
134	11491.00	78.82	179.63	8423.99	4212.94	-4192.36	523.75	95.00	0.41	155.53	4224.95	172.88	MWD Run 6
135	11586.00	78.31	178.58	8442.83	4306.00	-4285.46	525.20	95.00	1.21	155.53	4317.53	173.01	MWD Run 6
136	11680.00	78.43	177.85	8461.78	4398.06	-4377.49	528.07	94.00	0.77	159.06	4409.22	173.12	MWD Run 6
137	11775.00	77.36	177.38	8481.70	4490.94	-4470.29	531.93	95.00	1.23	159.06	4501.83	173.21	MWD Run 6
138	11869.00	78.03	177.40	8501.73	4582.78	-4562.04	536.11	94.00	0.71	159.06	4593.43	173.30	MWD Run 6
139	11961.00	78.63	177.41	8520.34	4672.88	-4652.04	540.19	92.00	0.65	160.82	4683.30	173.38	MWD Run 6
140	12055.00	80.99	179.14	8536.97	4765.37	-4744.51	542.97	94.00	3.10	157.29	4775.48	173.47	MWD Run 6
141	12150.00	86.47	180.78	8547.34	4859.65	-4838.90	543.03	95.00	6.02	160.82	4869.28	173.60	MWD Run 6
142	12244.00	87.59	180.39	8552.21	4953.36	-4932.77	542.07	94.00	1.26	162.59	4962.46	173.73	MWD Run 6
143	12339.00	89.58	180.17	8554.56	5048.19	-5027.73	541.61	95.00	2.11	160.82	5056.82	173.85	MWD Run 6
144	12434.00	91.49	179.97	8553.67	5143.06	-5122.72	541.49	95.00	2.02	160.82	5151.26	173.97	MWD Run 6
145	12529.00	92.97	179.56	8549.98	5237.89	-5217.65	541.88	95.00	1.62	160.82	5245.71	174.07	MWD Run 6
146	12623.00	92.02	179.23	8545.88	5331.73	-5311.55	542.87	94.00	1.07	160.82	5339.22	174.16	MWD Run 6
147	12717.00	90.20	179.48	8544.06	5425.64	-5405.53	543.93	94.00	1.95	162.59	5432.82	174.25	MWD Run 6
148	12812.00	92.05	179.87	8542.20	5520.53	-5500.50	544.47	95.00	1.99	0.00	5527.38	174.35	MWD Run 6
149	12907.00	90.03	180.76	8540.47	5615.37	-5595.48	543.95	95.00	2.32	162.59	5621.86	174.45	MWD Run 6
150	13001.00	89.72	180.01	8540.68	5709.22	-5689.48	543.32	94.00	0.86	164.35	5715.36	174.55	MWD Run 6
151	13095.00	88.94	180.40	8541.78	5803.09	-5783.47	542.98	94.00	0.93	164.35	5808.90	174.64	MWD Run 6
152	13189.00	90.17	180.93	8542.51	5896.91	-5877.46	541.89	94.00	1.42	164.35	5902.38	174.73	MWD Run 6
153	13283.00	88.94	179.62	8543.24	5990.77	-5971.45	541.44	94.00	1.91	164.35	5995.94	174.82	MWD Run 6
154	13377.00	91.82	182.29	8542.62	6084.55	-6065.42	539.87	94.00	4.18	167.88	6089.39	174.91	MWD Run 6
155	13472.00	90.50	180.92	8540.69	6179.24	-6160.35	537.21	95.00	2.00	167.88	6183.73	175.02	MWD Run 6
156	13566.00	88.51	179.21	8541.50	6273.11	-6254.34	537.11	94.00	2.79	167.88	6277.36	175.09	MWD Run 6
157	13661.00	89.41	178.77	8543.23	6368.05	-6349.31	538.78	95.00	1.05	169.65	6372.13	175.15	MWD Run 6
158	13755.00	87.53	177.67	8545.74	6462.00	-6443.23	541.70	94.00	2.32	167.88	6465.96	175.19	MWD Run 6
159	13850.00	88.79	177.54	8548.79	6556.94	-6538.09	545.67	95.00	1.33	169.65	6560.82	175.23	MWD Run 6
160	13944.00	91.63	177.90	8548.44	6650.93	-6632.01	549.40	94.00	3.05	169.65	6654.73	175.26	MWD Run 6
161	14037.00	90.14	178.39	8547.01	6743.90	-6724.94	552.41	93.00	1.69	167.88	6747.60	175.30	MWD Run 6
162	14132.00	88.57	178.50	8548.08	6838.87	-6819.90	554.99	95.00	1.66	167.88	6842.45	175.35	MWD Run 6
163	14227.00	91.06	179.04	8548.38	6933.83	-6914.87	557.03	95.00	2.68	169.65	6937.27	175.39	MWD Run 6
164	14320.00	88.99	177.79	8548.34	7026.80	-7007.83	559.60	93.00	2.60	167.88	7030.14	175.43	MWD Run 6
165	14414.00	87.17	177.56	8551.49	7120.74	-7101.69	563.41	94.00	1.95	169.65	7124.01	175.46	MWD Run 6
166	14508.00	87.45	177.03	8555.90	7214.63	-7195.49	567.85	94.00	0.64	171.41	7217.86	175.49	MWD Run 6
167	14603.00	89.75	176.75	8558.22	7309.60	-7290.31	573.00	95.00	2.44	171.41	7312.79	175.51	MWD Run 6
168	14698.00	87.28	177.35	8560.69	7404.56	-7385.15	577.89	95.00	2.68	169.65	7407.72	175.53	MWD Run 6
169	14791.00	88.57	177.50	8564.05	7497.49	-7477.99	582.06	93.00	1.40	169.65	7500.61	175.55	MWD Run 6
170	14886.00	88.65	179.55	8566.36	7592.44	-7572.92	584.51	95.00	2.16	169.65	7595.45	175.59	MWD Run 6

171	14980.00	90.67	180.18	8566.92	7686.33	-7666.92	584.73	94.00	2.25	171.41	7689.18	175.64	MWD Run 6
172	15072.00	92.38	179.40	8564.47	7778.20	-7758.88	585.06	92.00	2.04	169.65	7780.91	175.69	MWD Run 6
173	15168.00	91.99	180.56	8560.81	7874.01	-7854.81	585.10	96.00	1.27	169.65	7876.57	175.74	MWD Run 6
174	15263.00	91.29	182.44	8558.09	7968.70	-7949.73	582.61	95.00	2.11	167.88	7971.05	175.81	MWD Run 6
175	15357.00	88.82	182.11	8558.00	8062.32	-8043.65	578.88	94.00	2.65	167.88	8064.45	175.88	MWD Run 6
176	15451.00	89.19	182.95	8559.63	8155.90	-8137.54	574.73	94.00	0.98	169.65	8157.81	175.96	MWD Run 6
177	15546.00	89.86	182.81	8560.42	8250.43	-8232.42	569.96	95.00	0.72	169.65	8252.13	176.04	MWD Run 6
178	15640.00	91.46	181.83	8559.34	8344.05	-8326.33	566.15	94.00	2.00	169.65	8345.56	176.11	MWD Run 6
179	15735.00	90.17	181.29	8557.98	8438.76	-8421.28	563.57	95.00	1.47	169.65	8440.12	176.17	MWD Run 6
180	15829.00	91.07	181.66	8556.97	8532.49	-8515.25	561.15	94.00	1.04	171.41	8533.72	176.23	MWD Run 6
181	15924.00	90.45	181.22	8555.71	8627.22	-8610.21	558.76	95.00	0.80	167.88	8628.32	176.29	MWD Run 6
182	16018.00	92.04	180.61	8553.66	8721.00	-8704.17	557.26	94.00	1.81	162.59	8721.99	176.34	MWD Run 6
183	16113.00	92.25	180.38	8550.11	8815.78	-8799.10	556.44	95.00	0.33	167.88	8816.68	176.38	MWD Run 6
184	16208.00	90.87	179.64	8547.52	8910.62	-8894.06	556.42	95.00	1.65	167.88	8911.45	176.42	MWD Run 6
185	16302.00	89.66	178.56	8547.09	9004.57	-8988.05	557.90	94.00	1.73	169.65	9005.34	176.45	MWD Run 6
186	16396.00	90.36	178.09	8547.07	9098.55	-9082.00	560.65	94.00	0.90	171.41	9099.29	176.47	MWD Run 6
187	16491.00	88.99	178.41	8547.61	9193.53	-9176.96	563.55	95.00	1.48	164.35	9194.24	176.49	MWD Run 6
188	16586.00	89.27	178.39	8549.05	9288.50	-9271.91	566.20	95.00	0.30	167.88	9289.18	176.51	MWD Run 6
189	16680.00	91.04	177.91	8548.80	9382.48	-9365.86	569.24	94.00	1.95	167.88	9383.14	176.52	MWD Run 6
190	16775.00	90.08	178.32	8547.87	9477.46	-9460.80	572.36	95.00	1.10	169.65	9478.10	176.54	MWD Run 6
191	16870.00	91.57	178.51	8546.50	9572.43	-9555.75	574.99	95.00	1.58	171.41	9573.03	176.56	MWD Run 6
192	16965.00	88.51	178.19	8546.44	9667.40	-9650.70	577.72	95.00	3.24	171.41	9667.97	176.57	MWD Run 6
193	17059.00	88.96	177.65	8548.51	9761.37	-9744.61	581.13	94.00	0.75	169.65	9761.93	176.59	MWD Run 6
194	17153.00	88.46	179.35	8550.63	9855.32	-9838.55	583.59	94.00	1.88	171.41	9855.85	176.61	MWD Run 6
195	17247.00	89.97	179.89	8551.92	9949.22	-9932.54	584.22	94.00	1.71	173.18	9949.71	176.63	MWD Run 6
196	17342.00	91.29	179.36	8550.87	10044.13	-10027.53	584.84	95.00	1.50	173.18	10044.57	176.66	MWD Run 6
197	17436.00	90.08	179.92	8549.75	10138.03	-10121.52	585.43	94.00	1.42	166.12	10138.43	176.69	MWD Run 6
198	17531.00	89.36	178.41	8550.21	10232.97	-10216.50	586.81	95.00	1.76	169.65	10233.34	176.71	MWD Run 6
199	17625.00	88.82	177.00	8551.70	10326.95	-10310.41	590.58	94.00	1.61	173.18	10327.31	176.72	MWD Run 6
200	17720.00	88.54	178.00	8553.89	10421.93	-10405.30	594.72	95.00	1.09	171.41	10422.28	176.73	MWD Run 6
201	17814.00	88.26	180.68	8556.52	10515.82	-10499.25	595.80	94.00	2.87	171.41	10516.14	176.75	MWD Run 6
202	17909.00	88.18	180.86	8559.47	10610.59	-10594.19	594.53	95.00	0.21	173.18	10610.86	176.79	MWD Run 6
203	18004.00	89.44	182.12	8561.44	10705.29	-10689.13	592.06	95.00	1.88	173.18	10705.52	176.83	MWD Run 6
204	18099.00	89.22	181.16	8562.55	10800.00	-10784.09	589.34	95.00	1.04	174.94	10800.18	176.87	MWD Run 6
205	18193.00	88.54	181.08	8564.39	10893.76	-10878.05	587.50	94.00	0.73	174.94	10893.90	176.91	MWD Run 6
206	18288.00	89.83	181.05	8565.74	10988.54	-10973.02	585.73	95.00	1.36	169.65	10988.65	176.94	MWD Run 6
207	18383.00	90.81	181.24	8565.21	11083.31	-11068.00	583.84	95.00	1.05	171.41	11083.39	176.98	MWD Run 6
208	18477.00	92.72	181.19	8562.32	11177.03	-11161.93	581.84	94.00	2.03	174.94	11177.09	177.02	MWD Run 6

209	18572.00	93.20	180.83	8557.41	11271.69	-11256.79	580.17	95.00	0.63	176.71	11271.73	177.05	MWD Run 6
210	18667.00	91.49	180.15	8553.52	11366.45	-11351.70	579.36	95.00	1.94	173.18	11366.48	177.08	MWD Run 6
211	18762.00	88.18	178.98	8553.80	11461.36	-11446.68	580.08	95.00	3.70	176.71	11461.37	177.10	MWD Run 6
212	18857.00	88.63	178.82	8556.44	11556.28	-11541.63	581.90	95.00	0.50	171.41	11556.29	177.11	MWD Run 6
213	18938.00	88.65	179.22	8558.36	11637.21	-11622.59	583.29	81.00	0.49	167.88	11637.22	177.13	MWD Run 6
PTB	18994.00	88.65	179.22	8559.68	11693.16	-11678.57	584.05	56.00	0.00	0.00	11693.17	177.14	PROJECTION