

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45050	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLF CAMP (GAS)
⁴ Property Code 319502	⁵ Property Name LUSITANO 27-34 FED COM	⁶ Well Number 622H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3334.9

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
C	27	25 S	31 E		235	NORTH	1702	WEST	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
C	34	25 S	31 E		986	NORTH	1633	WEST	EDDY

¹² Dedicated Acres 200	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

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.

NW CORNER SEC. 27 LAT. = 32.1085472°N LONG. = 103.7744766°W NMSP EAST (FT) N = 403674.44 E = 714373.23 W/4 CORNER SEC. 27 LAT. = 32.1012701°N LONG. = 103.7745461°W NMSP EAST (FT) N = 401027.04 E = 714365.41 SW CORNER SEC. 27 LAT. = 32.0939875°N LONG. = 103.7746005°W NMSP EAST (FT) N = 398377.70 E = 714362.31 W/4 CORNER SEC. 34 LAT. = 32.0867157°N LONG. = 103.7746027°W NMSP EAST (FT) N = 395732.35 E = 714375.33 SW CORNER SEC. 34 LAT. = 32.0794255°N LONG. = 103.7746047°W NMSP EAST (FT) N = 393080.31 E = 714368.46		N89°39'25"E 2652.26 FT N89°38'30"E 2653.78 FT KOP 1702' SHL 235' FTP AS-DRILLED KOP 58' FNL, 1641' FWL LAT. = 32.1083904°N LONG. = 103.769792°W NMSP EAST (FT) N = 403625.95 E = 716013.74 LUSITANO 27-34 FED 622H ELEV. = 3334.9' LAT. = 32.1079050°N (NAD83) LONG. = 103.7689668°W NMSP EAST (FT) N = 403449.65 E = 716074.23 AS-DRILLED FIRST TAKE POINT 553' FNL, 1658' FWL LAT. = 32.1070313°N LONG. = 103.7691387°W NMSP EAST (FT) N = 403431.57 E = 716028.87 S/4 CORNER SEC. 27 LAT. = 32.0940085°N LONG. = 103.766018°W NMSP EAST (FT) N = 398397.72 E = 717018.91 S89°34'05"W 2657.26 FT S89°35'41"W 2660.37 FT LTP 1633' BHL AS-DRILLED BOTTOM HOLE LAT. = 32.0912884°N LONG. = 103.7693294°W NMSP EAST (FT) N = 397404.30 E = 715999.78 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE VERTICAL DATUM NAVD83. S89°33'49"W 2657.43 FT S89°30'43"W 2661.38 FT		NE CORNER SEC. 27 LAT. = 32.1085597°N LONG. = 103.7573438°W NMSP EAST (FT) N = 403708.92 E = 719678.01 E/4 CORNER SEC. 27 LAT. = 32.1012955°N LONG. = 103.7573925°W NMSP EAST (FT) N = 401084.23 E = 719677.04 SE CORNER SEC. 27 LAT. = 32.0940174°N LONG. = 103.7574330°W NMSP EAST (FT) N = 398416.53 E = 719678.63 E/4 CORNER SEC. 34 LAT. = 32.0867362°N LONG. = 103.7574361°W NMSP EAST (FT) N = 395767.78 E = 719691.82 SE CORNER SEC. 34 LAT. = 32.0794666°N LONG. = 103.7574361°W NMSP EAST (FT) N = 393123.21 E = 719705.93	
---	--	---	--	---	--

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.

Jenny Harms 1/31/2010
Signature Date

Jenny Harms
Printed Name

Jenny.harms@dvn.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.

DECEMBER 17, 2018
Date of Survey

William F. Jaramila
Signature and Seal of Professional Surveyor

Certificate Number: WILLIAM F. JARAMILA, L.S. 12797
Professional Surveyor No. 6429C

NSP Required.

Intent ☐ As Drilled ☒ X

API #

30-016-45050

Operator Name:

DEVON

Property Name:

LUSITANO 27-34 FED

Well Number

622H

Kick Off Point (KOP)

UL C	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	27	25S	31E		58	NORTH	1641	WEST	EDDY
Latitude					Longitude			NAD	
32.1083904					103.7691792			83	

First Take Point (FTP)

UL C	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	27	25S	31E		553	NORTH	1658	WEST	EDDY
Latitude					Longitude			NAD	
32.1070313					103.7691387			83	

Last Take Point (LTP)

UL C	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	34	25S	31E		951	NORTH	1633	WEST	EDDY
Latitude					Longitude			NAD	
32.0913845					103.7693310			83	

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

yes

Is this well an infill well?

no

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

KZ 06/29/2018



Total Directional
Services, LLC
USA Operations

Final MWD Survey Certification

Lea County, New Mexico

Client: Devon Energy

Well Name: Lusitano 27-34 Fed Com 622H

Total Job No: 2019-167-129

API No: 30-015-45656

Start Date: 03/15/2019

End Date: 05/15/2019

Measured Start Depth: 90 feet

Measured End Depth: 17,765 feet

Vertical Section from well center at TD: 6,046.72 feet

RECEIVED

FEB 03 2020

EMNRD-OCD ARTESIA

I, Trey Beeson, MWD Operator, hereby certify that; I am employed by Total Directional Services, LLC and we conducted or supervised the taking of these open hole MWD surveys at the request of this client. This data is true, correct, complete and within the limitations of the tool as set forth by Total Directional Services, LLC. I am authorized and qualified to make this report and have reviewed this report and find that it conforms to the principals and procedures as set forth by Total Directional Services, LLC.

Date: 05/15/2019

Signed: *Trey Beeson*

DIRECTIONAL SURVEY REPORT

Company name: Devon Energy

Well name: Lusitano 27-34 Fed Com 622H

Field: Purple Sage (Wolfcamp)

Rig: Catcus 129

API/UWI: 3.00155E+13

State/Province: New Mexico

County/Parish: Eddy

Location SEC 27 / T25S / R31E / NMP

Start date: 04/14/2019

End date: 05/15/2019

Proposed direction: 180.05

Declination: 6.55

North Reference: Grid

Latitude/Longitude: 32.107905

KB: 3364.9

SVY	Depth	Inc	Azm	TVD	VS	NS	EW	CD	CA	DLS
Tiein	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00
1	150.00	0.60	356.40	150.00	-0.78	0.78	-0.05	0.79	356.40	0.40
2	213.00	0.80	63.60	212.99	-1.31	1.31	0.32	1.35	13.90	1.26
3	304.00	0.80	64.70	303.98	-1.86	1.86	1.47	2.37	38.23	0.02
4	394.00	0.90	54.40	393.97	-2.54	2.54	2.61	3.64	45.75	0.20
5	487.00	0.80	50.90	486.96	-3.38	3.38	3.71	5.02	47.67	0.12
6	579.00	0.50	46.50	578.96	-4.06	4.06	4.50	6.06	47.94	0.33
7	670.00	0.20	6.20	669.96	-4.49	4.49	4.80	6.57	46.93	0.41
8	761.00	0.50	331.80	760.96	-5.00	5.00	4.63	6.81	42.83	0.39
9	854.00	0.30	350.90	853.95	-5.60	5.60	4.40	7.12	38.19	0.26
10	974.00	0.30	300.70	973.95	-6.07	6.07	4.08	7.31	33.94	0.21
11	1067.00	0.70	290.40	1066.95	-6.39	6.39	3.34	7.21	27.60	0.44
12	1158.00	1.10	302.20	1157.94	-7.05	7.05	2.08	7.35	16.44	0.48
13	1249.00	1.00	307.20	1248.92	-7.99	7.99	0.71	8.02	5.06	0.15
14	1341.00	1.20	339.70	1340.90	-9.38	9.38	-0.27	9.39	358.38	0.70
15	1433.00	1.30	341.70	1432.88	-11.28	11.28	-0.93	11.31	355.30	0.12
16	1528.00	1.40	330.50	1527.86	-13.31	13.31	-1.84	13.44	352.14	0.30
17	1623.00	1.50	313.80	1622.83	-15.18	15.18	-3.31	15.54	347.71	0.46
18	1719.00	1.50	317.70	1718.79	-16.98	16.98	-5.06	17.72	343.41	0.11
19	1814.00	1.90	298.90	1813.75	-18.65	18.66	-7.27	20.03	338.70	0.72
20	1909.00	1.60	307.00	1908.71	-20.21	20.22	-9.71	22.43	334.34	0.41
21	2005.00	1.60	304.10	2004.67	-21.77	21.78	-11.89	24.81	331.36	0.08
22	2100.00	2.50	322.40	2099.61	-24.15	24.16	-14.25	28.05	329.46	1.16
23	2195.00	2.80	326.70	2194.51	-27.73	27.74	-16.79	32.43	328.81	0.38
24	2291.00	3.70	339.40	2290.35	-32.59	32.60	-19.17	37.82	329.55	1.20
25	2386.00	3.70	339.70	2385.16	-38.33	38.35	-21.31	43.87	330.94	0.02
26	2481.00	3.50	341.00	2479.97	-43.94	43.96	-23.32	49.77	332.06	0.23
27	2577.00	3.30	341.50	2575.80	-49.33	49.36	-25.15	55.39	333.00	0.21
28	2672.00	3.20	340.30	2670.65	-54.42	54.44	-26.91	60.73	333.70	0.13
29	2767.00	3.50	343.00	2765.48	-59.69	59.71	-28.65	66.23	334.37	0.36
30	2863.00	4.00	352.10	2861.28	-65.81	65.83	-29.97	72.33	335.52	0.81
31	2958.00	4.90	1.50	2955.99	-73.14	73.17	-30.32	79.20	337.49	1.22
32	3054.00	5.00	14.80	3051.64	-81.29	81.31	-29.14	86.38	340.28	1.20
33	3149.00	4.50	25.30	3146.31	-88.66	88.69	-26.49	92.56	343.37	1.05
34	3244.00	4.00	19.60	3241.05	-95.16	95.18	-23.79	98.11	345.97	0.69
35	3340.00	4.10	15.90	3336.81	-101.61	101.63	-21.73	103.93	347.93	0.29
36	3435.00	4.00	1.50	3431.58	-108.19	108.21	-20.71	110.17	349.17	1.07

37	3530.00	3.30	351.00	3526.39	-114.21	114.22	-21.05	116.15	349.56	1.02
38	3626.00	2.20	348.20	3622.27	-118.74	118.76	-21.86	120.75	349.57	1.15
39	3721.00	2.20	8.90	3717.21	-122.32	122.34	-21.95	124.30	349.83	0.83
40	3817.00	2.20	31.50	3813.14	-125.72	125.73	-20.70	127.43	350.65	0.90
41	3912.00	1.20	18.20	3908.09	-128.22	128.23	-19.44	129.70	351.38	1.12
42	4007.00	0.80	357.70	4003.08	-129.83	129.84	-19.15	131.25	351.61	0.56
43	4103.00	0.80	323.20	4099.07	-131.03	131.05	-19.58	132.50	351.50	0.49
44	4198.00	0.90	292.90	4194.06	-131.85	131.87	-20.67	133.48	351.09	0.48
45	4294.00	0.90	280.60	4290.05	-132.28	132.30	-22.10	134.14	350.52	0.20
46	4389.00	2.30	317.90	4385.01	-133.83	133.85	-24.11	136.01	349.79	1.76
47	4484.00	3.90	325.50	4479.87	-137.91	137.93	-27.22	140.59	348.84	1.74
48	4579.00	4.40	329.10	4574.62	-143.69	143.72	-30.92	147.01	347.86	0.59
49	4674.00	4.30	326.00	4669.35	-149.77	149.80	-34.79	153.79	346.93	0.27
50	4770.00	4.10	323.20	4765.09	-155.50	155.53	-38.85	160.31	345.97	0.30
51	4865.00	3.80	322.90	4859.86	-160.72	160.76	-42.79	166.36	345.10	0.32
52	4960.00	3.70	322.70	4954.66	-165.67	165.71	-46.54	172.12	344.31	0.11
53	5056.00	3.30	323.50	5050.48	-170.35	170.40	-50.07	177.60	343.63	0.42
54	5151.00	3.10	322.40	5145.33	-174.58	174.63	-53.26	182.57	343.04	0.22
55	5247.00	2.70	322.90	5241.21	-178.44	178.49	-56.21	187.13	342.52	0.42
56	5342.00	2.40	318.70	5336.12	-181.72	181.77	-58.87	191.06	342.05	0.37
57	5437.00	2.20	323.30	5431.04	-184.67	184.72	-61.27	194.62	341.65	0.29
58	5532.00	2.20	328.40	5525.97	-187.68	187.74	-63.32	198.13	341.36	0.21
59	5628.00	2.20	310.90	5621.90	-190.46	190.52	-65.68	201.52	340.98	0.70
60	5723.00	1.20	281.50	5716.86	-191.85	191.91	-68.03	203.61	340.48	1.36
61	5818.00	0.80	261.30	5811.84	-191.95	192.01	-69.66	204.25	340.06	0.56
62	5914.00	0.90	253.20	5907.83	-191.62	191.69	-71.04	204.43	339.66	0.16
63	6009.00	0.70	247.90	6002.82	-191.19	191.25	-72.29	204.46	339.29	0.22
64	6104.00	1.20	76.30	6097.82	-191.21	191.27	-71.87	204.33	339.41	2.00
65	6200.00	1.30	78.00	6193.80	-191.67	191.73	-69.82	204.05	339.99	0.11
66	6295.00	1.10	67.10	6288.78	-192.25	192.31	-67.93	203.96	340.55	0.32
67	6390.00	1.10	64.10	6383.76	-193.01	193.07	-66.27	204.12	341.06	0.06
68	6486.00	1.10	78.70	6479.74	-193.59	193.65	-64.54	204.12	341.57	0.29
69	6581.00	1.00	72.90	6574.72	-194.02	194.07	-62.85	204.00	342.06	0.15
70	6676.00	0.90	73.00	6669.71	-194.48	194.53	-61.34	203.98	342.50	0.11
71	6772.00	0.80	68.20	6765.70	-194.95	195.00	-60.00	204.03	342.90	0.13
72	6867.00	0.80	72.80	6860.69	-195.39	195.45	-58.75	204.09	343.27	0.07
73	6963.00	0.50	69.10	6956.69	-195.74	195.79	-57.72	204.12	343.57	0.32
74	7058.00	0.60	78.30	7051.68	-195.99	196.04	-56.85	204.12	343.83	0.14
75	7153.00	0.30	82.80	7146.68	-196.12	196.17	-56.11	204.04	344.04	0.32
76	7249.00	0.40	92.90	7242.68	-196.14	196.19	-55.53	203.90	344.20	0.12
77	7344.00	0.50	105.00	7337.67	-196.02	196.06	-54.80	203.58	344.39	0.14
78	7440.00	0.50	131.40	7433.67	-195.63	195.68	-54.08	203.01	344.55	0.24
79	7535.00	0.50	142.40	7528.67	-195.03	195.08	-53.51	202.28	344.66	0.10
80	7630.00	0.50	118.90	7623.66	-194.50	194.55	-52.90	201.61	344.79	0.21
81	7726.00	0.40	112.40	7719.66	-194.17	194.22	-52.22	201.12	344.95	0.12
82	7821.00	0.50	104.90	7814.66	-193.94	193.98	-51.51	200.71	345.13	0.12
83	7916.00	0.50	119.30	7909.65	-193.63	193.68	-50.75	200.21	345.32	0.13
84	8012.00	0.60	143.80	8005.65	-193.02	193.06	-50.09	199.46	345.46	0.26
85	8107.00	0.70	144.40	8100.64	-192.15	192.19	-49.46	198.45	345.57	0.11

86	8202.00	0.80	137.40	8195.63	-191.19	191.23	-48.67	197.33	345.72	0.14
87	8297.00	0.60	153.90	8290.63	-190.25	190.30	-48.00	196.26	345.84	0.30
88	8393.00	0.50	167.60	8386.62	-189.39	189.44	-47.69	195.35	345.87	0.17
89	8488.00	0.20	205.90	8481.62	-188.84	188.88	-47.68	194.81	345.83	0.38
90	8583.00	0.10	257.00	8576.62	-188.67	188.71	-47.83	194.68	345.78	0.17
91	8679.00	1.10	262.90	8672.61	-188.54	188.58	-48.83	194.80	345.48	1.04
92	8774.00	1.30	262.40	8767.59	-188.28	188.33	-50.80	195.06	344.90	0.21
93	8869.00	0.80	274.10	8862.58	-188.19	188.23	-52.53	195.42	344.41	0.57
94	8965.00	1.30	278.40	8958.56	-188.39	188.44	-54.27	196.10	343.93	0.53
95	9060.00	1.10	269.90	9053.54	-188.54	188.59	-56.25	196.80	343.39	0.28
96	9155.00	0.80	227.30	9148.53	-188.09	188.14	-57.65	196.78	342.96	0.78
97	9250.00	1.00	201.50	9243.52	-186.87	186.92	-58.44	195.85	342.64	0.47
98	9345.00	1.20	202.30	9338.50	-185.18	185.23	-59.12	194.44	342.30	0.21
99	9440.00	1.30	201.80	9433.48	-183.26	183.31	-59.90	192.85	341.90	0.11
100	9535.00	0.80	207.80	9528.46	-181.67	181.72	-60.61	191.56	341.55	0.54
101	9631.00	0.90	207.10	9624.45	-180.40	180.46	-61.27	190.57	341.25	0.10
102	9725.00	0.80	220.20	9718.44	-179.25	179.30	-62.03	189.73	340.92	0.23
103	9820.00	0.70	224.30	9813.43	-178.32	178.38	-62.86	189.13	340.59	0.12
104	9916.00	0.50	205.90	9909.43	-177.53	177.58	-63.45	188.58	340.34	0.29
105	10011.00	0.30	152.20	10004.42	-176.93	176.99	-63.52	188.04	340.26	0.42
106	10106.00	0.30	128.60	10099.42	-176.56	176.61	-63.21	187.58	340.31	0.13
107	10202.00	0.50	286.80	10195.42	-176.52	176.58	-63.41	187.62	340.25	0.82
108	10297.00	0.70	297.20	10290.42	-176.91	176.96	-64.33	188.29	340.02	0.24
109	10392.00	0.60	288.00	10385.41	-177.32	177.38	-65.32	189.02	339.79	0.15
110	10488.00	0.30	203.30	10481.41	-177.25	177.31	-65.89	189.15	339.61	0.67
111	10583.00	1.10	110.40	10576.40	-176.70	176.76	-65.14	188.38	339.77	1.22
112	10678.00	1.90	95.10	10671.37	-176.25	176.30	-62.71	187.12	340.42	0.93
113	10763.00	2.40	84.80	10756.31	-176.29	176.34	-59.54	186.12	341.34	0.74
114	10859.00	1.00	84.30	10852.26	-176.55	176.60	-56.70	185.48	342.20	1.46
115	10954.00	0.90	115.60	10947.25	-176.31	176.36	-55.20	184.80	342.62	0.55
116	11049.00	2.20	202.30	11042.22	-174.30	174.35	-55.22	182.89	342.43	2.45
117	11144.00	2.90	201.70	11137.13	-170.38	170.43	-56.80	179.65	341.57	0.74
118	11240.00	5.10	206.70	11232.89	-164.31	164.36	-59.62	174.84	340.06	2.32
119	11334.00	7.30	196.30	11326.34	-154.84	154.90	-63.17	167.28	337.81	2.62
120	11429.00	22.80	183.60	11417.82	-130.52	130.58	-66.04	146.33	333.17	16.59
121	11525.00	34.00	181.90	11502.13	-84.99	85.04	-68.10	108.95	321.31	11.70
122	11649.00	46.20	179.10	11596.81	-5.28	5.34	-68.55	68.76	274.46	9.94
123	11744.00	51.20	177.90	11659.49	66.04	-65.98	-66.66	93.79	225.29	5.35
124	11840.00	59.40	175.00	11714.10	144.72	-144.66	-61.68	157.26	203.09	8.89
125	11935.00	67.00	173.90	11756.91	229.04	-229.00	-53.45	235.15	193.14	8.07
126	12030.00	74.10	175.70	11788.52	318.19	-318.15	-45.37	321.37	188.12	7.68
127	12125.00	84.90	175.20	11805.81	411.16	-411.12	-37.97	412.87	185.28	11.38
128	12221.00	96.20	179.10	11804.89	506.86	-506.83	-33.20	507.91	183.75	12.45
129	12316.00	96.70	178.80	11794.22	601.24	-601.21	-31.47	602.03	183.00	0.61
130	12411.00	95.40	179.80	11784.20	695.70	-695.67	-30.32	696.33	182.50	1.72
131	12507.00	93.70	181.10	11776.59	791.39	-791.36	-31.07	791.97	182.25	2.23
132	12602.00	92.90	182.60	11771.12	886.18	-886.15	-34.13	886.81	182.21	1.79
133	12697.00	90.80	182.20	11768.05	981.04	-981.01	-38.11	981.75	182.22	2.25
134	12792.00	90.70	181.70	11766.81	1075.98	-1075.95	-41.34	1076.74	182.20	0.54

135	12887.00	90.40	181.40	11765.90	1170.94	-1170.91	-43.91	1171.73	182.15	0.45
136	12983.00	88.60	181.00	11766.74	1266.92	-1266.88	-45.92	1267.71	182.08	1.92
137	13078.00	92.40	182.20	11765.91	1361.86	-1361.82	-48.57	1362.68	182.04	4.19
138	13173.00	90.60	182.20	11763.42	1456.76	-1456.71	-52.22	1457.65	182.05	1.89
139	13269.00	88.10	181.10	11764.51	1552.70	-1552.66	-54.98	1553.63	182.03	2.85
140	13364.00	90.10	181.10	11766.00	1647.67	-1647.62	-56.80	1648.60	181.97	2.11
141	13459.00	91.30	180.70	11764.84	1742.65	-1742.60	-58.29	1743.58	181.92	1.33
142	13554.00	90.90	180.10	11763.02	1837.63	-1837.58	-58.96	1838.53	181.84	0.76
143	13650.00	92.10	180.40	11760.50	1933.60	-1933.55	-59.38	1934.46	181.76	1.29
144	13745.00	91.80	180.10	11757.27	2028.54	-2028.49	-59.79	2029.37	181.69	0.45
145	13840.00	91.30	179.30	11754.70	2123.50	-2123.45	-59.29	2124.28	181.60	0.99
146	13936.00	91.80	179.30	11752.10	2219.46	-2219.41	-58.12	2220.17	181.50	0.52
147	14031.00	92.60	180.00	11748.46	2314.39	-2314.34	-57.54	2315.05	181.42	1.12
148	14126.00	91.00	180.10	11745.47	2409.34	-2409.29	-57.62	2409.98	181.37	1.69
149	14221.00	88.30	179.90	11746.05	2504.33	-2504.28	-57.62	2504.94	181.32	2.85
150	14316.00	88.20	179.30	11748.96	2599.28	-2599.23	-56.96	2599.85	181.26	0.64
151	14412.00	88.00	178.90	11752.14	2695.21	-2695.16	-55.45	2695.73	181.18	0.47
152	14507.00	90.80	179.70	11753.13	2790.19	-2790.14	-54.29	2790.67	181.11	3.07
153	14602.00	94.80	181.10	11748.49	2885.05	-2885.00	-54.95	2885.53	181.09	4.46
154	14697.00	87.30	182.10	11746.75	2979.93	-2979.88	-57.61	2980.44	181.11	7.96
155	14793.00	87.60	181.90	11751.02	3075.78	-3075.73	-60.95	3076.33	181.14	0.38
156	14888.00	88.30	181.40	11754.42	3170.68	-3170.63	-63.69	3171.27	181.15	0.91
157	14983.00	92.00	180.90	11754.17	3265.65	-3265.59	-65.59	3266.25	181.15	3.93
158	15078.00	92.00	181.00	11750.86	3360.58	-3360.52	-67.17	3361.19	181.15	0.11
159	15174.00	90.10	180.00	11749.10	3456.55	-3456.50	-68.00	3457.16	181.13	2.24
160	15269.00	89.00	179.30	11749.85	3551.55	-3551.49	-67.42	3552.13	181.09	1.37
161	15364.00	88.70	179.40	11751.75	3646.52	-3646.46	-66.35	3647.07	181.04	0.33
162	15459.00	91.50	180.30	11751.59	3741.51	-3741.45	-66.10	3742.04	181.01	3.10
163	15554.00	90.20	180.10	11750.18	3836.50	-3836.44	-66.43	3837.01	180.99	1.38
164	15650.00	89.60	179.70	11750.34	3932.49	-3932.44	-66.26	3933.00	180.97	0.75
165	15745.00	88.40	178.70	11752.00	4027.47	-4027.41	-64.94	4027.93	180.92	1.64
166	15840.00	90.00	178.90	11753.33	4122.43	-4122.38	-62.95	4122.86	180.87	1.70
167	15935.00	90.30	179.10	11753.08	4217.42	-4217.36	-61.29	4217.81	180.83	0.38
168	16030.00	90.00	178.80	11752.83	4312.40	-4312.35	-59.55	4312.76	180.79	0.45
169	16126.00	89.80	179.90	11753.00	4408.39	-4408.34	-58.46	4408.73	180.76	1.16
170	16221.00	91.00	179.10	11752.34	4503.38	-4503.33	-57.63	4503.70	180.73	1.52
171	16316.00	90.30	179.40	11751.26	4598.36	-4598.32	-56.39	4598.66	180.70	0.80
172	16411.00	90.10	180.30	11750.93	4693.36	-4693.31	-56.14	4693.65	180.69	0.97
173	16507.00	92.80	181.20	11748.50	4789.31	-4789.26	-57.39	4789.61	180.69	2.96
174	16602.00	92.90	182.20	11743.77	4884.15	-4884.10	-60.21	4884.48	180.71	1.06
175	16697.00	91.30	181.90	11740.29	4979.03	-4978.98	-63.60	4979.38	180.73	1.71
176	16793.00	90.30	181.90	11738.95	5074.97	-5074.91	-66.79	5075.35	180.75	1.04
177	16888.00	89.40	181.60	11739.20	5169.93	-5169.87	-69.69	5170.34	180.77	1.00
178	16983.00	88.10	180.90	11741.27	5264.88	-5264.82	-71.76	5265.31	180.78	1.55
179	17079.00	89.60	180.80	11743.20	5360.85	-5360.79	-73.18	5361.29	180.78	1.57
180	17174.00	90.50	181.20	11743.12	5455.83	-5455.77	-74.84	5456.28	180.79	1.04
181	17269.00	91.80	180.70	11741.21	5550.80	-5550.74	-76.42	5551.26	180.79	1.47
182	17365.00	90.50	180.10	11739.28	5646.78	-5646.71	-77.09	5647.24	180.78	1.49
183	17460.00	89.90	179.40	11738.95	5741.77	-5741.71	-76.67	5742.22	180.77	0.97

184	17556.00	90.80	180.20	11738.37	5837.77	-5837.71	-76.34	5838.21	180.75	1.25
185	17651.00	90.00	179.70	11737.70	5932.77	-5932.70	-76.25	5933.19	180.74	0.99
186	17709.00	88.30	178.90	11738.56	5990.75	-5990.69	-75.54	5991.17	180.72	3.24
PTB	17765.00	88.30	178.90	11740.22	6046.72	-6046.65	-74.47	6047.11	180.71	0.00

/ -103.7689