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MS Directional Survey Data Certification

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JUL 19 2019

DISTRICT 11 ARTESIA O.C.D.

MS Directional Job Number: MSMO-63726
Survey Type: MWD
Operating Company: Murchison Oil & Gas, LLC
Well Name & Number: Rock Ridge Federal WCB #001H
Location: Eddy County, NM
API Number: 30-015-45728
Tie In Depth: Surface
Surveyed Depths: 135' – 15,380' MD
Projected TD Survey: 15,450' MD
Dates Performed: 04/22/2019 – 05/18/2019

I certify that the data is true, correct and complete and within the limitations of the tool set forth by MS Directional; that I am authorized and qualified to make this report and that I have reviewed this report and find it conforms to the principles and procedures as set forth by MS Directional.

Digitally signed by:

MWD Surveyor Name: Sam Finley

Date: 06-25-2019

Email: Samuel.Finley@msdir.com

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V09.04.02

Company:		Murchison Oil & Gas, LLC									
Well Name:		Rock Ridge Federal WCB #001H									
Location:		Eddy County, NM									
Rig:		Latshaw #7				Magnetic Declination:		6.87		REFERENCED TO GRID NORTH	
Job Number:		MSMO-63726									
API #:		30-015-45728									
Vertical Section Azimuth:				269.32		Proposed Direction:		269.32			
Survey Calculation Method:				Minimum Curvature							
PTB:	MD		INC		AZM	TVD	N/S	E/W		VS	
	15,450		93.9		268.6	10783.75	-76.45	-4588.58		4589.17	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'
TIE IN	0	0.00	0.00	0.00	0.00	0.00		0.00			
1	135	0.40	27.10	135.00	0.42	0.21	-0.22	0.47	27.10	0.30	0.30
2	225	0.20	333.60	225.00	0.84	0.29	-0.30	0.89	18.92	0.36	-0.22
3	314	0.40	298.60	314.00	1.13	-0.05	0.04	1.13	357.26	0.30	0.22
4	372	1.00	289.00	371.99	1.39	-0.71	0.69	1.56	332.93	1.05	1.03
5	428	1.10	330.00	427.98	2.01	-1.44	1.42	2.48	324.42	1.32	0.18
6	517	1.90	11.30	516.95	4.20	-1.58	1.53	4.49	339.40	1.46	0.90
7	606	1.70	18.30	605.91	6.90	-0.88	0.79	6.96	352.77	0.33	-0.22
8	726	1.40	20.80	725.87	9.96	0.20	-0.32	9.96	1.17	0.26	-0.25
9	815	1.30	26.50	814.84	11.88	1.04	-1.18	11.93	5.01	0.19	-0.11
10	906	1.00	41.10	905.82	13.40	2.02	-2.18	13.56	8.58	0.46	-0.33
11	999	1.00	25.00	998.81	14.75	2.90	-3.07	15.03	11.12	0.30	0.00
12	1,094	0.70	39.70	1093.80	15.95	3.62	-3.81	16.35	12.79	0.39	-0.32
13	1,187	0.30	1.80	1186.80	16.63	3.99	-4.19	17.10	13.50	0.54	-0.43
14	1,281	0.50	208.00	1280.79	16.51	3.81	-4.00	16.95	12.98	0.83	0.21
15	1,376	0.80	250.30	1375.79	15.92	2.99	-3.18	16.20	10.63	0.57	0.32
16	1,470	0.60	254.60	1469.78	15.57	1.90	-2.08	15.69	6.94	0.22	-0.21
17	1,565	0.50	254.20	1564.78	15.33	1.02	-1.20	15.36	3.80	0.11	-0.11
18	1,658	0.40	264.00	1657.77	15.18	0.30	-0.48	15.18	1.14	0.14	-0.11
19	1,752	0.60	236.10	1751.77	14.87	-0.43	0.25	14.88	358.34	0.33	0.21
20	1,847	0.60	231.40	1846.77	14.29	-1.23	1.06	14.34	355.07	0.05	0.00
21	1,941	0.60	215.10	1940.76	13.58	-1.90	1.74	13.71	352.03	0.18	0.00
22	2,036	2.30	141.60	2035.73	11.67	-1.00	0.86	11.72	355.09	2.32	1.79
23	2,130	3.60	124.20	2129.61	8.54	2.61	-2.71	8.93	17.00	1.66	1.38
24	2,223	4.10	112.50	2222.40	5.62	8.10	-8.16	9.86	55.22	1.00	0.54
25	2,319	3.90	117.70	2318.16	2.79	14.16	-14.19	14.43	78.84	0.43	-0.21
26	2,412	3.70	114.40	2410.96	0.08	19.69	-19.69	19.69	89.76	0.32	-0.22
27	2,506	4.10	118.10	2504.74	-2.75	25.42	-25.38	25.57	96.18	0.50	0.43
28	2,600	4.10	124.60	2598.50	-6.24	31.15	-31.07	31.77	101.34	0.49	0.00
29	2,694	4.20	100.90	2692.26	-8.80	37.29	-37.19	38.32	103.28	1.81	0.11
30	2,788	4.10	92.90	2786.02	-9.62	44.03	-43.91	45.07	102.33	0.62	-0.11
31	2,883	3.90	96.10	2880.79	-10.14	50.63	-50.51	51.64	101.32	0.32	-0.21
32	2,977	3.40	96.10	2974.59	-10.78	56.59	-56.45	57.60	100.78	0.53	-0.53
33	3,071	4.30	95.60	3068.38	-11.42	62.86	-62.72	63.89	100.29	0.96	0.96

WGS 84 / NAD 83

Company:		Murchison Oil & Gas, LLC												
Well Name:		Rock Ridge Federal WCB #001H												
Location:		Eddy County, NM												
Rig:		Latshaw #7				Magnetic Declination:		6.87		REFERENCED TO GRID NORTH		▼		
Job Number:		MSMO-63726												
API #:		30-015-45728												
Vertical Section Azimuth:				269.32		Proposed Direction:		269.32						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	15,450		93.9		268.6		10783.75		-76.45		-4588.58		4589.17	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
34	3,165	4.60	96.30	3162.10	-12.17	70.12	-69.97	71.17	99.85	0.32	0.32			
35	3,259	4.00	94.10	3255.83	-12.82	77.13	-76.98	78.19	99.44	0.66	-0.64			
36	3,353	3.60	94.10	3349.63	-13.27	83.35	-83.19	84.40	99.04	0.43	-0.43			
37	3,448	3.10	93.40	3444.46	-13.63	88.89	-88.72	89.93	98.72	0.53	-0.53			
38	3,543	3.60	93.30	3539.30	-13.96	94.43	-94.26	95.46	98.41	0.53	0.53			
39	3,636	5.40	95.50	3632.01	-14.54	101.70	-101.52	102.74	98.14	1.94	1.94			
40	3,730	5.30	97.90	3725.60	-15.56	110.40	-110.21	111.50	98.02	0.26	-0.11			
41	3,824	4.90	97.00	3819.23	-16.65	118.69	-118.48	119.85	97.99	0.43	-0.43			
42	3,918	4.60	97.80	3912.91	-17.65	126.41	-126.19	127.63	97.95	0.33	-0.32			
43	4,013	4.10	100.60	4007.63	-18.79	133.52	-133.29	134.84	98.01	0.57	-0.53			
44	4,108	3.60	98.80	4102.42	-19.87	139.81	-139.56	141.21	98.09	0.54	-0.53			
45	4,202	3.30	99.20	4196.25	-20.76	145.39	-145.14	146.87	98.13	0.32	-0.32			
46	4,296	4.80	99.90	4290.01	-21.87	151.94	-151.67	153.50	98.19	1.60	1.60			
47	4,391	4.90	101.40	4384.67	-23.35	159.83	-159.54	161.53	98.31	0.17	0.11			
48	4,485	4.50	102.00	4478.35	-24.91	167.37	-167.07	169.22	98.47	0.43	-0.43			
49	4,579	4.30	101.10	4572.08	-26.36	174.44	-174.11	176.42	98.59	0.23	-0.21			
50	4,673	4.00	102.10	4665.83	-27.72	181.10	-180.76	183.21	98.70	0.33	-0.32			
51	4,768	3.60	102.90	4760.62	-29.08	187.25	-186.89	189.49	98.83	0.42	-0.42			
52	4,862	4.10	102.90	4854.41	-30.49	193.40	-193.03	195.79	98.96	0.53	0.53			
53	4,956	4.10	106.50	4948.17	-32.20	199.90	-199.50	202.48	99.15	0.27	0.00			
54	5,050	3.80	106.50	5041.94	-34.04	206.11	-205.69	208.90	99.38	0.32	-0.32			
55	5,144	3.80	104.60	5135.74	-35.71	212.11	-211.67	215.09	99.56	0.13	0.00			
56	5,238	3.60	107.20	5229.54	-37.36	217.94	-217.48	221.12	99.73	0.28	-0.21			
57	5,332	3.50	108.60	5323.36	-39.15	223.48	-223.00	226.88	99.94	0.14	-0.11			
58	5,426	3.60	111.60	5417.18	-41.15	228.94	-228.44	232.61	100.19	0.22	0.11			
59	5,521	3.70	112.30	5511.99	-43.41	234.55	-234.02	238.54	100.49	0.12	0.11			
60	5,615	2.60	108.10	5605.85	-45.23	239.39	-238.83	243.62	100.70	1.19	-1.17			
61	5,710	2.50	110.10	5700.75	-46.61	243.38	-242.81	247.80	100.84	0.14	-0.11			
62	5,804	1.30	88.90	5794.70	-47.29	246.37	-245.79	250.87	100.87	1.46	-1.28			
63	5,898	0.70	340.10	5888.69	-46.73	247.24	-246.67	251.62	100.70	1.77	-0.64			
64	5,993	1.10	324.50	5983.68	-45.44	246.52	-245.96	250.67	100.45	0.49	0.42			
65	6,086	1.10	314.80	6076.66	-44.09	245.36	-244.82	249.29	100.19	0.20	0.00			
66	6,181	1.00	330.00	6171.65	-42.73	244.30	-243.78	248.01	99.92	0.31	-0.11			
67	6,275	1.10	314.60	6265.63	-41.38	243.25	-242.74	246.74	99.66	0.32	0.11			

009.04.02

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Location:		Eddy County, NM										
Rig:		Latshaw #7					Magnetic Declination:		6.87		REFERENCED TO GRID NORTH	
Job Number:		MSMO-63726										
API #:		30-015-45728										
Vertical Section Azimuth:			269.32			Proposed Direction:		269.32				
Survey Calculation Method:			Minimum Curvature									
PTB:	MD		INC		AZM	TVD	N/S	E/W		VS		
	15,450		93.9		268.6	10783.75	-76.45	-4588.58		4589.17		
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'	
68	6,369	1.00	314.30	6359.61	-40.18	242.02	-241.53	245.33	99.43	0.11	-0.11	
69	6,463	1.00	318.90	6453.60	-38.99	240.89	-240.41	244.03	99.19	0.09	0.00	
70	6,557	0.80	339.70	6547.59	-37.75	240.13	-239.66	243.08	98.94	0.40	-0.21	
71	6,652	0.80	324.90	6642.58	-36.59	239.52	-239.06	242.29	98.69	0.22	0.00	
72	6,747	0.60	353.60	6737.57	-35.55	239.08	-238.64	241.71	98.46	0.42	-0.21	
73	6,841	0.80	340.00	6831.57	-34.45	238.80	-238.37	241.27	98.21	0.28	0.21	
74	6,935	0.90	341.10	6925.55	-33.13	238.34	-237.93	240.63	97.91	0.11	0.11	
75	7,030	1.20	355.40	7020.54	-31.43	238.01	-237.62	240.08	97.52	0.42	0.32	
76	7,124	0.90	15.00	7114.52	-29.74	238.13	-237.76	239.98	97.12	0.49	-0.32	
77	7,217	0.50	56.00	7207.52	-28.81	238.65	-238.29	240.38	96.88	0.66	-0.43	
78	7,312	1.10	65.30	7302.51	-28.19	239.82	-239.47	241.48	96.70	0.64	0.63	
79	7,407	0.90	96.00	7397.49	-27.89	241.39	-241.05	243.00	96.59	0.59	-0.21	
80	7,501	1.10	107.20	7491.48	-28.23	242.99	-242.64	244.63	96.63	0.30	0.21	
81	7,596	1.10	108.00	7586.46	-28.79	244.73	-244.37	246.42	96.71	0.02	0.00	
82	7,690	1.10	97.20	7680.44	-29.18	246.48	-246.12	248.20	96.75	0.22	0.00	
83	7,784	0.70	85.20	7774.43	-29.24	247.95	-247.59	249.67	96.73	0.47	-0.43	
84	7,879	0.60	62.10	7869.43	-28.96	248.97	-248.61	250.65	96.64	0.29	-0.11	
85	7,973	0.30	78.10	7963.42	-28.68	249.64	-249.29	251.29	96.55	0.34	-0.32	
86	8,068	0.40	322.20	8058.42	-28.37	249.68	-249.33	251.29	96.48	0.63	0.11	
87	8,163	0.60	5.90	8153.42	-27.61	249.53	-249.19	251.05	96.31	0.44	0.21	
88	8,258	0.60	12.10	8248.41	-26.63	249.69	-249.35	251.10	96.09	0.07	0.00	
89	8,352	0.70	16.80	8342.41	-25.60	249.96	-249.63	251.26	95.85	0.12	0.11	
90	8,447	0.80	21.20	8437.40	-24.42	250.36	-250.06	251.55	95.57	0.12	0.11	
91	8,541	0.70	10.60	8531.39	-23.25	250.71	-250.41	251.78	95.30	0.18	-0.11	
92	8,636	0.70	7.30	8626.38	-22.10	250.89	-250.61	251.86	95.03	0.04	0.00	
93	8,730	0.40	11.70	8720.38	-21.21	251.03	-250.76	251.92	94.83	0.32	-0.32	
94	8,824	0.50	29.50	8814.38	-20.53	251.29	-251.03	252.13	94.67	0.18	0.11	
95	8,919	0.60	23.50	8909.37	-19.72	251.70	-251.45	252.47	94.48	0.12	0.11	
96	9,013	0.40	11.30	9003.37	-18.94	251.96	-251.72	252.67	94.30	0.24	-0.21	
97	9,107	0.60	341.90	9097.37	-18.15	251.87	-251.64	252.52	94.12	0.34	0.21	
98	9,202	0.70	336.30	9192.36	-17.15	251.48	-251.26	252.07	93.90	0.12	0.11	
99	9,295	1.00	337.60	9285.35	-15.88	250.94	-250.74	251.45	93.62	0.32	0.32	
100	9,389	1.10	325.30	9379.33	-14.38	250.12	-249.93	250.53	93.29	0.26	0.11	
101	9,483	1.20	313.30	9473.32	-12.96	248.89	-248.72	249.22	92.98	0.28	0.11	

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09/04/02

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	15,450		93.9		268.6	10783.75	-76.45	-4588.58		4589.17	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'
102	9,595	1.10	304.60	9585.29	-11.55	247.15	-246.99	247.42	92.68	0.18	-0.09
103	9,689	1.00	290.00	9679.28	-10.75	245.64	-245.49	245.87	92.51	0.30	-0.11
104	9,783	1.00	287.00	9773.26	-10.23	244.08	-243.94	244.29	92.40	0.06	0.00
105	9,877	1.30	218.50	9867.25	-10.83	242.63	-242.49	242.87	92.56	1.40	0.32
106	9,971	1.30	189.70	9961.22	-12.71	241.79	-241.62	242.12	93.01	0.69	0.00
107	10,066	1.00	180.60	10056.21	-14.61	241.60	-241.41	242.04	93.46	0.37	-0.32
108	10,160	0.80	182.00	10150.19	-16.08	241.57	-241.36	242.10	93.81	0.21	-0.21
109	10,254	0.80	167.80	10244.18	-17.38	241.68	-241.46	242.31	94.11	0.21	0.00
110	10,301	2.60	235.10	10291.16	-18.31	240.88	-240.64	241.57	94.35	5.12	3.83
111	10,348	8.10	256.90	10337.95	-19.67	236.77	-236.52	237.59	94.75	12.27	11.70
112	10,442	14.10	262.80	10430.15	-22.61	218.95	-218.66	220.11	95.90	6.49	6.38
113	10,489	18.00	266.40	10475.31	-23.78	206.02	-205.72	207.38	96.59	8.56	8.30
114	10,536	23.30	267.20	10519.27	-24.69	189.47	-189.17	191.07	97.43	11.29	11.28
115	10,630	32.50	266.90	10602.26	-26.97	145.59	-145.26	148.07	100.50	9.79	9.79
116	10,677	37.40	266.70	10640.77	-28.48	118.72	-118.37	122.09	103.49	10.43	10.43
117	10,723	41.60	266.60	10676.26	-30.19	89.52	-89.15	94.47	108.64	9.13	9.13
118	10,817	52.20	267.00	10740.39	-33.99	21.08	-20.68	40.00	148.19	11.28	11.28
119	10,910	66.80	269.90	10787.47	-36.00	-58.79	59.22	68.94	238.52	15.92	15.70
120	11,003	76.20	272.40	10816.95	-34.18	-146.86	147.26	150.79	256.90	10.42	10.11
121	11,097	81.50	271.80	10835.13	-30.81	-238.99	239.34	240.97	262.65	5.67	5.64
122	11,191	89.00	268.80	10842.91	-30.33	-332.59	332.93	333.97	264.79	8.59	7.98
123	11,285	88.40	268.60	10845.04	-32.46	-426.54	426.90	427.77	265.65	0.67	-0.64
124	11,380	89.50	267.80	10846.78	-35.45	-521.48	521.86	522.68	266.11	1.43	1.16
125	11,475	89.80	268.20	10847.36	-38.76	-616.42	616.83	617.63	266.40	0.53	0.32
126	11,570	88.70	267.80	10848.60	-42.08	-711.35	711.80	712.59	266.61	1.23	-1.16
127	11,664	90.80	268.00	10849.01	-45.52	-805.28	805.76	806.56	266.76	2.24	2.23
128	11,759	90.30	267.40	10848.10	-49.33	-900.20	900.72	901.55	266.86	0.82	-0.53
129	11,852	91.20	268.90	10846.88	-52.34	-993.14	993.69	994.51	266.98	1.88	0.97
130	11,947	90.30	270.20	10845.64	-53.08	-1088.12	1088.68	1089.42	267.21	1.66	-0.95
131	12,041	90.10	270.50	10845.31	-52.51	-1182.12	1182.66	1183.29	267.46	0.38	-0.21
132	12,136	93.40	272.60	10842.41	-49.94	-1277.02	1277.53	1278.00	267.76	4.12	3.47
133	12,230	91.20	272.00	10838.64	-46.17	-1370.86	1371.32	1371.64	268.07	2.43	-2.34
134	12,325	92.00	269.20	10835.99	-45.18	-1465.81	1466.25	1466.51	268.23	3.06	0.84
135	12,418	91.30	268.40	10833.31	-47.13	-1558.75	1559.20	1559.46	268.27	1.14	-0.75

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005.04.02

Company:		Murchison Oil & Gas, LLC										
Well Name:		Rock Ridge Federal WCB #001H										
Location:		Eddy County, NM										
Rig:		Latshaw #7					Magnetic Declination:		6.87		REFERENCED TO GRID NORTH	
Job Number:		MSMO-63726										
API #:		30-015-45728										
Vertical Section Azimuth:			269.32			Proposed Direction:		269.32				
Survey Calculation Method:			Minimum Curvature									
PTB:	MD		INC		AZM	TVD	N/S	E/W		VS		
	15,450		93.9		268.6	10783.75	-76.45	-4588.58		4589.17		
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'	
136	12,512	90.70	267.60	10831.67	-50.41	-1652.68	1653.16	1653.45	268.25	1.06	-0.64	
137	12,606	90.90	267.60	10830.35	-54.34	-1746.59	1747.11	1747.43	268.22	0.21	0.21	
138	12,700	91.90	267.90	10828.06	-58.03	-1840.49	1841.05	1841.40	268.19	1.11	1.06	
139	12,796	91.00	267.00	10825.63	-62.30	-1936.36	1936.96	1937.36	268.16	1.33	-0.94	
140	12,890	89.50	268.30	10825.22	-66.15	-2030.27	2030.92	2031.35	268.13	2.11	-1.60	
141	12,984	89.00	268.10	10826.45	-69.11	-2124.22	2124.89	2125.34	268.14	0.57	-0.53	
142	13,078	88.90	267.70	10828.17	-72.55	-2218.14	2218.84	2219.33	268.13	0.44	-0.11	
143	13,172	89.60	270.50	10829.40	-74.03	-2312.11	2312.83	2313.29	268.17	3.07	0.74	
144	13,266	92.30	271.70	10827.84	-72.22	-2406.07	2406.76	2407.15	268.28	3.14	2.87	
145	13,361	93.00	271.80	10823.45	-69.33	-2500.92	2501.57	2501.88	268.41	0.74	0.74	
146	13,454	91.90	270.50	10819.48	-67.46	-2593.82	2594.43	2594.69	268.51	1.83	-1.18	
147	13,548	90.70	269.00	10817.34	-67.87	-2687.79	2688.40	2688.64	268.55	2.04	-1.28	
148	13,642	90.60	269.40	10816.28	-69.18	-2781.77	2782.40	2782.63	268.58	0.44	-0.11	
149	13,736	90.50	268.90	10815.37	-70.58	-2875.76	2876.39	2876.62	268.59	0.54	-0.11	
150	13,830	90.70	269.00	10814.39	-72.30	-2969.73	2970.38	2970.61	268.61	0.24	0.21	
151	13,924	90.60	268.90	10813.32	-74.02	-3063.71	3064.38	3064.61	268.62	0.15	-0.11	
152	14,017	90.40	269.50	10812.51	-75.32	-3156.70	3157.37	3157.60	268.63	0.68	-0.22	
153	14,112	90.00	268.40	10812.18	-77.06	-3251.68	3252.37	3252.59	268.64	1.23	-0.42	
154	14,206	90.80	270.50	10811.52	-77.96	-3345.67	3346.36	3346.58	268.67	2.39	0.85	
155	14,300	94.10	272.50	10807.51	-75.51	-3439.53	3440.19	3440.36	268.74	4.10	3.51	
156	14,393	89.90	272.00	10804.26	-71.86	-3532.38	3532.99	3533.11	268.83	4.55	-4.52	
157	14,486	90.10	272.20	10804.26	-68.45	-3625.32	3625.88	3625.97	268.92	0.30	0.22	
158	14,580	89.20	271.30	10804.84	-65.58	-3719.27	3719.79	3719.85	268.99	1.35	-0.96	
159	14,673	91.40	270.50	10804.35	-64.12	-3812.25	3812.75	3812.79	269.04	2.52	2.37	
160	14,767	89.20	269.00	10803.86	-64.53	-3906.24	3906.73	3906.78	269.05	2.83	-2.34	
161	14,862	89.30	269.40	10805.10	-65.86	-4001.23	4001.73	4001.77	269.06	0.43	0.11	
162	14,956	91.30	269.80	10804.61	-66.51	-4095.22	4095.72	4095.76	269.07	2.17	2.13	
163	15,049	91.70	269.70	10802.17	-66.92	-4188.19	4188.68	4188.72	269.08	0.44	0.43	
164	15,143	91.20	268.10	10799.79	-68.72	-4282.13	4282.65	4282.69	269.08	1.78	-0.53	
165	15,237	92.60	268.40	10796.68	-71.59	-4376.04	4376.58	4376.62	269.06	1.52	1.49	
166	15,331	93.50	269.00	10791.68	-73.72	-4469.88	4470.44	4470.49	269.06	1.15	0.96	
167	15,380	93.90	268.60	10788.51	-74.75	-4518.76	4519.33	4519.38	269.05	1.15	0.82	
PTB:	15,450	93.90	268.60	10783.75	-76.45	-4588.58	4589.17	4589.22	269.05	0.00	0.00	