

HOBBS OCD

OCT 13 2016

30-025-41430

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Survey Report

MIN. CURVATURE CALCULATIONS (SPE-3362)

OPERATOR: Legacy Reserves Operating LP
 WELL: Hamon Fed Com A #2H
 LOCATION: Lea County, NM
 RIG: Nabors M51
 Directional Drillers: R. Gonzales/J. Rayburn
 MWD Engineers: R. Gautier/T. Rountree

START: 9/9/2014
 FINISH: 9/24/2014
 JOB #: 2014049
 Bit to Survey: 46
 VERTICAL SECTION AZIMUTH: 356.82
 TOTAL CORRECTION: 6.84

M3P
 DIRECTIONAL
 SERVICES

STATION NUMBER	SURVEY DEPTH	INC	AZMTH	TVD	N-S	E-W	VERT. SECTION	DLS/ 100	Temp °F	C.L	B / D	Walk
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
GYRO	200.00	0.44	231.43	200.00	-0.48	-0.60	-0.44	0.22		200.00	0.22	64.29
GYRO	400.00	0.36	286.04	399.99	-0.78	-1.80	-0.68	0.19		200.00	-0.04	27.31
GYRO	600.00	0.44	206.39	599.99	-1.30	-2.75	-1.14	0.26		200.00	0.04	-39.83
GYRO	800.00	0.23	215.49	799.99	-2.31	-3.32	-2.13	0.11		200.00	-0.11	4.55
GYRO	1000.00	0.24	268.15	999.99	-2.65	-3.98	-2.43	0.10		200.00	0.00	26.33
GYRO	1200.00	0.39	255.35	1199.98	-2.84	-5.05	-2.55	0.08		200.00	0.08	-6.40
GYRO	1400.00	0.27	247.43	1399.98	-3.19	-6.15	-2.85	0.06		200.00	-0.06	-3.96
GYRO	1600.00	0.50	246.23	1599.97	-3.72	-7.38	-3.31	0.12		200.00	0.12	-0.60
GYRO	1800.00	0.44	224.85	1799.97	-4.62	-8.72	-4.13	0.09		200.00	-0.03	-10.69
GYRO	2000.00	0.38	207.51	1999.96	-5.75	-9.57	-5.21	0.07		200.00	-0.03	-8.67
GYRO	2200.00	0.43	254.01	2199.96	-6.55	-10.60	-5.95	0.16		200.00	0.03	23.25
GYRO	2400.00	0.27	272.53	2399.95	-6.73	-11.79	-6.07	0.10		200.00	-0.08	9.26
GYRO	2600.00	0.84	62.27	2599.95	-6.03	-10.96	-5.41	0.54		200.00	0.29	-74.87
GYRO	2800.00	1.90	69.21	2799.89	-4.17	-6.56	-3.80	0.54		200.00	0.53	3.47
GYRO	3000.00	2.05	74.27	2999.77	-2.03	-0.02	-2.02	0.11		200.00	0.08	2.53
GYRO	3200.00	2.07	76.86	3199.64	-0.23	6.94	-0.62	0.05		200.00	0.01	1.30
GYRO	3400.00	1.41	128.22	3399.56	-0.94	12.39	-1.62	0.81		200.00	-0.33	25.68
GYRO	3600.00	1.38	151.59	3599.50	-4.58	15.47	-5.43	0.28		200.00	-0.02	11.69
GYRO	3800.00	1.62	161.99	3799.43	-9.38	17.49	-10.34	0.18		200.00	0.12	5.20
GYRO	4000.00	1.32	170.35	3999.37	-14.34	18.75	-15.36	0.18		200.00	-0.15	4.18
GYRO	4200.00	1.14	175.97	4199.32	-18.60	19.28	-19.64	0.11		200.00	-0.09	2.81
GYRO	4400.00	0.60	207.80	4399.30	-21.51	18.93	-22.53	0.35		200.00	-0.27	15.92
GYRO	4600.00	0.48	158.53	4599.29	-23.22	18.74	-24.22	0.23		200.00	-0.06	-24.64
GYRO	4800.00	0.13	187.96	4799.29	-24.22	19.02	-25.24	0.19		200.00	-0.18	14.72
GYRO	5000.00	0.19	274.34	4999.29	-24.42	18.66	-25.42	0.11		200.00	0.03	43.19
GYRO	5200.00	0.27	300.46	5199.28	-24.16	17.92	-25.11	0.06		200.00	0.04	13.06
GYRO	5333.00	0.62	304.64	5332.28	-23.59	17.06	-24.50	0.26		133.00	0.26	3.14
1	5522.00	1.30	331.70	5521.25	-21.12	15.20	-21.93	0.42	109	189.00	0.36	14.32
2	5617.00	1.10	319.60	5616.23	-19.48	14.10	-20.23	0.34	115	95.00	-0.21	-12.74
3	5713.00	1.10	323.30	5712.22	-18.04	12.95	-18.73	0.07	116	96.00	0.00	3.85
4	5808.00	1.10	327.50	5807.20	-16.53	11.92	-17.17	0.08	118	95.00	0.00	4.42
5	5903.00	1.00	304.30	5902.18	-15.30	10.74	-15.87	0.46	122	95.00	-0.11	-24.42
6	5999.00	0.90	303.30	5998.17	-14.41	9.42	-14.91	0.11	123	96.00	-0.10	-1.04
7	6094.00	1.00	301.50	6093.16	-13.57	8.09	-14.00	0.11	123	95.00	0.11	-1.89
8	6189.00	1.10	304.70	6188.14	-12.62	6.63	-12.97	0.12	123	95.00	0.11	3.37
9	6284.00	1.10	307.60	6283.12	-11.54	5.16	-11.81	0.06	127	95.00	0.00	3.05
10	6380.00	1.10	309.80	6379.10	-10.39	3.72	-10.58	0.04	127	96.00	0.00	2.29
11	6475.00	1.10	312.60	6474.09	-9.19	2.35	-9.31	0.06	129	95.00	0.00	2.95
12	6570.00	1.10	320.10	6569.07	-7.87	1.09	-7.92	0.15	129	95.00	0.00	7.89
13	6666.00	1.00	315.50	6665.05	-6.57	-0.08	-6.55	0.14	131	96.00	-0.10	-4.79
14	6761.00	1.00	315.40	6760.04	-5.39	-1.25	-5.31	0.00	129	95.00	0.00	-0.11
15	6856.00	1.00	318.40	6855.02	-4.18	-2.38	-4.04	0.06	132	95.00	0.00	3.16
16	6952.00	1.00	314.20	6951.01	-2.97	-3.54	-2.77	0.08	131	96.00	0.00	-4.37
17	7047.00	0.90	312.60	7046.00	-1.88	-4.68	-1.62	0.11	132	95.00	-0.11	-1.68
18	7143.00	0.90	291.30	7141.99	-1.10	-5.94	-0.77	0.35	134	96.00	0.00	-22.19
19	7238.00	0.80	293.00	7236.98	-0.57	-7.24	-0.17	0.11	136	95.00	-0.11	1.79
20	7333.00	0.70	288.90	7331.97	-0.12	-8.40	0.34	0.12	134	95.00	-0.11	-4.32
21	7427.00	0.70	289.10	7425.96	0.25	-9.49	0.78	0.00	134	94.00	0.00	0.21
22	7522.00	0.70	279.60	7520.95	0.54	-10.61	1.13	0.12	134	95.00	0.00	-10.00
23	7618.00	0.60	281.60	7616.95	0.74	-11.68	1.38	0.11	134	96.00	-0.10	2.08
24	7713.00	0.60	268.20	7711.94	0.82	-12.66	1.52	0.15	136	95.00	0.00	-14.11

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25	7808.00	0.60	284.80	7806.94	0.93	-13.64	1.69	0.18	136	95.00	0.00	17.47
26	7904.00	0.50	289.80	7902.93	1.20	-14.52	2.01	0.12	134	96.00	-0.10	5.21
27	7999.00	0.60	286.50	7997.93	1.49	-15.39	2.34	0.11	136	95.00	0.11	-3.47
28	8095.00	1.00	292.60	8093.92	1.95	-16.64	2.87	0.43	136	96.00	0.42	6.35
29	8190.00	1.50	285.50	8188.90	2.60	-18.61	3.63	0.55	138	95.00	0.53	-7.47
30	8285.00	1.70	294.30	8283.86	3.51	-21.09	4.68	0.33	138	95.00	0.21	9.26
31	8381.00	2.00	293.20	8379.81	4.76	-23.93	6.08	0.31	140	96.00	0.31	-1.15
32	8476.00	2.10	283.00	8474.75	5.80	-27.15	7.30	0.40	140	95.00	0.11	-10.74
33	8571.00	2.80	277.80	8569.66	6.51	-31.14	8.23	0.77	140	95.00	0.74	-5.47
34	8667.00	2.80	278.20	8665.55	7.16	-35.79	9.14	0.02	140	96.00	0.00	0.42
35	8762.00	3.80	274.60	8760.39	7.75	-41.22	10.02	1.07	140	95.00	1.05	-3.79
36	8857.00	4.00	278.40	8855.17	8.48	-47.64	11.11	0.34	140	95.00	0.21	4.00
37	8953.00	3.90	281.20	8950.94	9.61	-54.15	12.60	0.23	136	96.00	-0.10	2.92
38	9048.00	4.70	277.40	9045.67	10.74	-61.18	14.11	0.89	136	95.00	0.84	-4.00
39	9144.00	4.70	270.90	9141.35	11.30	-69.01	15.11	0.55	134	96.00	0.00	-6.77
40	9239.00	4.00	275.30	9236.08	11.67	-76.20	15.88	0.82	136	95.00	-0.74	4.63
41	9335.00	2.70	277.10	9331.91	12.26	-81.78	16.78	1.36	138	96.00	-1.35	1.88
42	9424.00	2.90	294.20	9420.80	13.44	-85.92	18.19	0.96	131	89.00	0.22	19.21
43	9520.00	4.40	302.30	9516.61	16.41	-91.24	21.44	1.65	132	96.00	1.56	8.44
44	9615.00	6.10	303.70	9611.21	21.15	-98.52	26.59	1.79	134	95.00	1.79	1.47
45	9710.00	6.60	303.70	9705.62	26.98	-107.27	32.89	0.53	134	95.00	0.53	0.00
46	9806.00	7.30	294.90	9800.92	32.61	-117.39	39.07	1.33	134	96.00	0.73	-9.17
47	9901.00	6.90	282.00	9895.20	36.34	-128.45	43.41	1.73	132	95.00	-0.42	-13.58
48	9997.00	6.70	275.80	9990.52	38.11	-139.66	45.79	0.79	131	96.00	-0.21	-6.46
49	10092.00	5.40	267.60	10084.99	38.48	-149.64	46.72	1.64	129	95.00	-1.37	-8.63
50	10188.00	5.50	276.70	10180.56	38.83	-158.72	47.57	0.91	131	96.00	0.10	9.48
51	10283.00	5.50	281.50	10275.12	40.26	-167.70	49.51	0.48	132	95.00	0.00	5.05
52	10379.00	5.80	276.80	10370.66	41.76	-177.03	51.51	0.57	134	96.00	0.31	-4.90
53	10410.00	9.10	275.40	10401.39	42.17	-181.03	52.15	10.66	125	31.00	10.65	-4.52
54	10442.00	10.10	275.30	10432.94	42.67	-186.34	52.94	3.13	132	32.00	3.13	-0.31
55	10474.00	12.70	286.50	10464.31	43.93	-192.51	54.54	10.64	138	32.00	8.13	35.00
56	10506.00	15.70	291.20	10495.33	46.49	-199.92	57.51	10.04	138	32.00	9.38	14.69
57	10537.00	20.20	294.60	10524.82	50.24	-208.70	61.74	14.90	136	31.00	14.52	10.97
58	10569.00	24.40	297.50	10554.42	55.59	-219.59	67.69	13.56	138	32.00	13.13	9.06
59	10601.00	28.10	299.50	10583.11	62.36	-232.02	75.13	11.89	138	32.00	11.56	6.25
60	10633.00	33.50	302.30	10610.59	70.80	-246.05	84.34	17.46	138	32.00	16.88	8.75
61	10665.00	38.80	304.50	10636.42	81.20	-261.79	95.60	17.05	138	32.00	16.56	6.87
62	10696.00	42.60	307.30	10659.92	93.07	-278.15	108.35	13.60	140	31.00	12.26	9.03
63	10728.00	46.40	310.30	10682.75	107.13	-295.61	123.36	13.57	123	32.00	11.88	9.38
64	10760.00	49.50	313.70	10704.18	123.04	-313.25	140.22	12.49	129	32.00	9.69	10.62
65	10791.00	51.90	316.30	10723.81	140.00	-330.20	158.10	10.10	129	31.00	7.74	8.39
66	10823.00	55.50	318.80	10742.76	159.03	-347.59	178.07	12.89	129	32.00	11.25	7.81
67	10855.00	59.20	320.40	10760.02	179.55	-365.05	199.53	12.30	129	32.00	11.56	5.00
68	10887.00	61.60	322.50	10775.83	201.31	-382.38	222.22	9.42	129	32.00	7.50	6.56
69	10918.00	65.30	325.10	10789.68	223.69	-398.74	245.47	14.10	127	31.00	11.94	8.39
70	10950.00	68.20	327.20	10802.31	248.11	-415.11	270.75	10.88	127	32.00	9.06	6.56
71	10980.00	69.70	329.60	10813.09	271.95	-429.78	295.38	8.99	127	30.00	5.00	8.00
72	11026.00	73.00	335.10	10827.81	310.55	-449.97	335.03	13.41	125	46.00	7.17	11.96
73	11057.00	75.90	337.90	10836.12	337.93	-461.88	363.03	12.78	127	31.00	9.35	9.03
74	11090.00	79.00	340.60	10843.29	368.05	-473.28	393.74	12.33	127	33.00	9.39	8.18
75	11141.00	87.20	342.50	10849.41	416.03	-489.28	442.54	16.50	123	51.00	16.08	3.73
76	11173.00	90.90	343.20	10849.94	446.60	-498.72	473.58	11.77	123	32.00	11.56	2.19
77	11205.00	91.00	347.20	10849.41	477.53	-506.89	504.91	12.50	125	32.00	0.31	12.50

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78	11237.00	88.60	350.00	10849.52	508.89	-513.21	536.58	11.52	129	32.00	-7.50	8.75
79	11269.00	86.90	351.70	10850.78	540.46	-518.30	568.38	7.51	129	32.00	-5.31	5.31
80	11300.00	87.40	353.80	10852.32	571.17	-522.20	599.26	6.96	129	31.00	1.61	6.77
81	11332.00	89.00	356.80	10853.33	603.04	-524.82	631.23	10.62	129	32.00	5.00	9.38
82	11364.00	90.70	359.50	10853.41	635.02	-525.86	663.22	9.97	129	32.00	5.31	8.44
83	11396.00	91.40	3.30	10852.82	667.00	-525.08	695.10	12.07	131	32.00	2.19	-11.88
84	11428.00	91.20	3.80	10852.10	698.93	-523.09	726.87	1.68	131	32.00	-0.63	1.56
85	11459.00	89.00	3.90	10852.04	729.86	-521.01	757.64	7.10	131	31.00	-7.10	0.32
86	11491.00	88.70	4.00	10852.69	761.78	-518.81	789.38	0.99	131	32.00	-0.94	0.31
87	11523.00	89.00	3.90	10853.33	793.70	-516.60	821.13	0.99	132	32.00	0.94	-0.31
88	11555.00	89.20	3.90	10853.83	825.62	-514.43	852.88	0.63	132	32.00	0.63	0.00
89	11650.00	88.10	3.10	10856.07	920.41	-508.63	947.21	1.43	134	95.00	-1.16	-0.84
90	11682.00	88.50	3.10	10857.02	952.35	-506.90	979.00	1.25	134	32.00	1.25	0.00
91	11714.00	88.80	3.40	10857.77	984.29	-505.09	1010.79	1.33	134	32.00	0.94	0.94
92	11746.00	88.00	3.80	10858.67	1016.21	-503.08	1042.56	2.79	134	32.00	-2.50	1.25
93	11777.00	88.00	3.90	10859.75	1047.13	-501.00	1073.30	0.32	136	31.00	0.00	0.32
94	11809.00	88.40	4.10	10860.75	1079.03	-498.77	1105.04	1.40	136	32.00	1.25	0.62
95	11841.00	88.70	4.10	10861.56	1110.94	-496.48	1136.77	0.94	136	32.00	0.94	0.00
96	11936.00	89.70	3.90	10862.89	1205.70	-489.85	1231.01	1.07	138	95.00	1.05	-0.21
97	12032.00	90.30	4.00	10862.89	1301.47	-483.24	1326.27	0.63	140	96.00	0.62	0.10
98	12127.00	89.70	3.60	10862.89	1396.26	-476.95	1420.57	0.76	141	95.00	-0.63	-0.42
99	12223.00	91.50	3.90	10861.88	1492.04	-470.67	1515.86	1.90	141	96.00	1.88	0.31
100	12318.00	90.60	3.10	10860.14	1586.85	-464.87	1610.19	1.27	143	95.00	-0.95	-0.84
101	12413.00	89.30	3.10	10860.23	1681.71	-459.73	1704.62	1.37	143	95.00	-1.37	0.00
102	12509.00	90.20	3.10	10860.65	1777.57	-454.54	1800.04	0.94	145	96.00	0.94	0.00
103	12604.00	90.50	3.00	10860.60	1872.43	-449.49	1894.48	0.33	147	95.00	0.32	-0.11
104	12699.00	91.10	2.80	10858.74	1967.30	-444.68	1988.94	0.67	147	95.00	0.63	-0.21
105	12795.00	91.90	2.20	10856.23	2063.17	-440.49	2084.43	1.04	149	96.00	0.83	-0.63
106	12890.00	92.40	2.40	10852.66	2158.03	-436.68	2178.93	0.57	149	95.00	0.53	0.21
107	12985.00	92.00	2.40	10849.01	2252.88	-432.71	2273.41	0.42	149	95.00	-0.42	0.00
108	13081.00	92.00	2.40	10845.66	2348.73	-428.69	2368.90	0.00	150	96.00	0.00	0.00
109	13176.00	91.40	3.30	10842.85	2443.57	-423.97	2463.33	1.14	150	95.00	-0.63	0.95
110	13208.00	91.40	3.50	10842.06	2475.51	-422.07	2495.11	0.62	150	32.00	0.00	0.63
111	13239.00	91.60	3.40	10841.25	2506.44	-420.21	2525.89	0.72	150	31.00	0.65	-0.32
112	13271.00	91.00	3.10	10840.53	2538.38	-418.39	2557.68	2.10	150	32.00	-1.87	-0.94
113	13303.00	90.40	2.80	10840.14	2570.33	-416.75	2589.50	2.10	150	32.00	-1.87	-0.94
114	13335.00	88.50	2.80	10840.44	2602.29	-415.18	2621.32	5.94	150	32.00	-5.94	0.00
115	13367.00	88.40	2.90	10841.31	2634.24	-413.59	2653.13	0.44	152	32.00	-0.31	0.31
116	13398.00	88.70	2.80	10842.09	2665.19	-412.05	2683.95	1.02	152	31.00	0.97	-0.32
117	13430.00	89.00	2.90	10842.74	2697.15	-410.46	2715.76	0.99	152	32.00	0.94	0.31
118	13462.00	89.40	3.10	10843.18	2729.10	-408.79	2747.58	1.40	152	32.00	1.25	0.63
119	13494.00	89.80	3.20	10843.41	2761.05	-407.03	2779.38	1.29	147	32.00	1.25	0.31
120	13525.00	90.10	3.20	10843.43	2792.00	-405.30	2810.19	0.97	145	31.00	0.97	0.00
121	13557.00	88.50	3.50	10843.82	2823.95	-403.43	2841.98	5.09	147	32.00	-5.00	0.94
122	13589.00	87.40	4.00	10844.97	2855.86	-401.34	2873.72	3.78	149	32.00	-3.44	1.56
123	13621.00	87.60	4.20	10846.36	2887.74	-399.05	2905.43	0.88	149	32.00	0.62	0.63
124	13653.00	87.90	3.90	10847.62	2919.64	-396.79	2937.15	1.33	149	32.00	0.94	-0.94
125	13685.00	88.20	3.80	10848.71	2951.55	-394.65	2968.90	0.99	150	32.00	0.94	-0.31
126	13716.00	88.60	3.80	10849.57	2982.47	-392.59	2999.65	1.29	150	31.00	1.29	0.00
127	13748.00	88.70	3.60	10850.33	3014.39	-390.53	3031.41	0.70	150	32.00	0.31	-0.62
128	13780.00	88.70	3.10	10851.05	3046.33	-388.66	3063.20	1.56	150	32.00	0.00	-1.56
129	13812.00	87.40	3.00	10852.14	3078.26	-386.96	3094.99	4.07	150	32.00	-4.06	-0.31
130	13844.00	87.50	2.90	10853.57	3110.19	-385.31	3126.78	0.44	152	32.00	0.31	-0.31

Survey Report

MIN. CURVATURE CALCULATIONS (SPE-3362)

OPERATOR: Legacy Reserves Operating LP
 WELL: Hamon Fed Com A #2H
 LOCATION: Lea County, NM
 RIG: Nabors M51
 Directional Drillers: R. Gonzales/J. Rayburn
 MWD Engineers: R. Gautier/T. Rountree

START: 9/9/2014
 FINISH: 9/24/2014
 JOB #: 2014049
 Bit to Survey: 46
 VERTICAL SECTION AZIMUTH: 356.82
 TOTAL CORRECTION: 6.84

M3P
 DIRECTIONAL
 SERVICES

STATION NUMBER	SURVEY DEPTH	INC	AZMTH	TVD	N-S	E-W	VERT. SECTION	DLS/ 100	Temp °F	C.L	B / D	Walk
131	13876.00	87.40	2.70	10854.99	3142.12	-383.75	3158.57	0.70	152	32.00	-0.31	-0.62
132	13908.00	85.90	2.90	10856.86	3174.03	-382.19	3190.34	4.73	152	32.00	-4.69	0.62
133	13939.00	85.70	2.80	10859.13	3204.91	-380.65	3221.09	0.72	152	31.00	-0.65	-0.32
134	13971.00	86.00	2.50	10861.45	3236.79	-379.18	3252.84	1.32	152	32.00	0.94	-0.94
135	14003.00	86.30	2.40	10863.60	3268.69	-377.81	3284.61	0.99	154	32.00	0.94	-0.31
136	14035.00	86.50	2.20	10865.60	3300.60	-376.53	3316.40	0.88	154	32.00	0.63	-0.62
137	14067.00	86.60	2.20	10867.53	3332.52	-375.30	3348.20	0.31	154	32.00	0.31	0.00
138	14098.00	86.90	2.20	10869.29	3363.44	-374.12	3379.02	0.97	154	31.00	0.97	0.00
139	14130.00	87.30	2.30	10870.91	3395.38	-372.86	3410.83	1.29	154	32.00	1.25	0.31
140	14162.00	87.60	2.20	10872.33	3427.32	-371.61	3442.66	0.99	156	32.00	0.94	-0.31
141	14194.00	88.10	2.30	10873.53	3459.27	-370.35	3474.49	1.59	154	32.00	1.56	0.31
142	14226.00	87.60	2.40	10874.73	3491.22	-369.04	3506.32	1.59	154	32.00	-1.56	0.31
143	14257.00	87.60	2.40	10876.03	3522.17	-367.74	3537.15	0.00	156	31.00	0.00	0.00
144	14289.00	87.90	2.30	10877.29	3554.12	-366.43	3568.97	0.99	154	32.00	0.94	-0.31
145	14321.00	88.10	2.40	10878.40	3586.07	-365.12	3600.80	0.70	156	32.00	0.62	0.31
146	14353.00	88.40	2.20	10879.38	3618.03	-363.84	3632.64	1.13	156	32.00	0.94	-0.62
147	14417.00	88.90	2.40	10880.89	3681.96	-361.27	3696.33	0.84	158	64.00	0.78	0.31
148	14512.00	89.90	2.60	10881.88	3776.86	-357.12	3790.86	1.07	156	95.00	1.05	0.21
149	14608.00	88.90	3.20	10882.89	3872.73	-352.27	3886.31	1.21	156	96.00	-1.04	0.63
150	14703.00	89.30	2.80	10884.38	3967.59	-347.30	3980.75	0.60	158	95.00	0.42	-0.42
151	14798.00	89.80	1.90	10885.13	4062.51	-343.40	4075.30	1.08	158	95.00	0.53	-0.95
152	14894.00	88.90	2.10	10886.22	4158.44	-340.05	4170.90	0.96	158	96.00	-0.94	0.21
153	14989.00	89.90	1.80	10887.21	4253.38	-336.82	4265.52	1.10	158	95.00	1.05	-0.32
154	15085.00	89.90	2.40	10887.38	4349.32	-333.30	4361.11	0.62	158	96.00	0.00	0.63
155	15180.00	89.80	3.00	10887.63	4444.21	-328.83	4455.61	0.64	159	95.00	-0.11	0.63
156	15276.00	89.50	3.90	10888.21	4540.03	-323.05	4550.96	0.99	158	96.00	-0.31	0.94
157	15371.00	90.10	4.10	10888.54	4634.80	-316.42	4645.22	0.67	161	95.00	0.63	0.21
158	15467.00	89.00	4.30	10889.30	4730.54	-309.39	4740.42	1.16	161	96.00	-1.15	0.21
159	15562.00	89.40	4.00	10890.62	4825.28	-302.52	4834.63	0.53	161	95.00	0.42	-0.32
160	15657.00	87.80	4.60	10892.95	4919.98	-295.40	4928.79	1.80	161	95.00	-1.68	0.63
161	15753.00	88.50	4.90	10896.05	5015.60	-287.45	5023.82	0.79	163	96.00	0.73	0.31
162	15848.00	89.10	4.00	10898.03	5110.29	-280.08	5117.96	1.14	163	95.00	0.63	-0.95
163	15888.00	89.50	3.80	10898.52	5150.20	-277.36	5157.65	1.12	163	40.00	1.00	-0.50
PTB	15934.00	89.50	3.80	10898.92	5196.09	-274.31	5203.31	0.00		46.00	0.00	0.00