



Directional Survey Report

Company Name: Bonanza Creek Energy Company

Well Name: Pronghorn P-T-17HNB

Rig ID: Ensign 128

API/UWI: 051233718600

Field: NWNE SEC17-T5N-R61W

Location:

State/Prov: Colorado

County: Weld

Survey Company: ENSIGN Directional

Job Number:

Start Date: 7/19/2013

End Date: 7/23/2013

Declination: 8.29

Proposed Azimuth: 175.92

North Reference: True

Svy	Depth	Incl	Azimuth	TVD	VS	NS	EW	CD	CA	DLS	Build	Walk	Temp
TieIn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	90.0				0.0
1	100.00	0.26	293.00	100.00	-0.10	0.09	-0.21	0.2	293.0	0.26	0.26	293.00	0.0
2	200.00	0.53	293.00	200.00	-0.42	0.36	-0.84	0.9	293.0	0.27	0.27	0.00	0.0
3	300.00	0.79	293.00	299.99	-0.94	0.81	-1.90	2.1	293.0	0.26	0.26	0.00	0.0
4	400.00	1.05	293.00	399.98	-1.67	1.44	-3.38	3.7	293.0	0.26	0.26	0.00	0.0
5	500.00	1.38	289.79	499.95	-2.58	2.20	-5.36	5.8	292.3	0.34	0.33	-3.21	0.0
6	600.00	1.57	280.76	599.92	-3.41	2.86	-7.84	8.3	290.1	0.30	0.19	-9.03	0.0
7	700.00	1.20	244.43	699.89	-3.38	2.67	-10.13	10.5	284.8	0.93	-0.37	-36.33	0.0
8	800.00	1.33	220.80	799.87	-2.18	1.34	-11.83	11.9	276.5	0.53	0.13	-23.63	0.0
9	900.00	1.15	194.17	899.85	-0.40	-0.51	-12.83	12.8	267.7	0.60	-0.18	-26.63	0.0
10	1,000.00	1.14	138.75	999.83	1.34	-2.23	-12.42	12.6	259.8	1.06	-0.01	-55.42	0.0
11	1,100.00	2.00	92.95	1,099.80	2.35	-3.07	-10.03	10.5	253.0	1.46	0.86	-45.80	0.0
12	1,200.00	3.32	65.02	1,199.69	1.53	-1.94	-5.66	6.0	251.1	1.81	1.32	-27.93	0.0
13	1,300.00	5.01	53.37	1,299.42	-1.85	1.89	0.47	1.9	14.0	1.88	1.69	-11.65	0.0
14	1,400.00	6.14	38.76	1,398.95	-8.12	8.67	7.32	11.3	40.2	1.81	1.13	-14.61	0.0
15	1,500.00	6.72	24.96	1,498.33	-17.16	18.14	13.14	22.4	35.9	1.65	0.58	-13.80	0.0
16	1,600.00	6.95	16.02	1,597.62	-27.96	29.26	17.28	34.0	30.6	1.09	0.23	-8.94	0.0
17	1,700.00	7.07	17.22	1,696.88	-39.37	40.95	20.77	45.9	26.9	0.19	0.12	1.20	0.0
18	1,800.00	6.66	17.46	1,796.16	-50.50	52.36	24.33	57.7	24.9	0.41	-0.41	0.24	0.0
19	1,900.00	6.32	20.52	1,895.52	-60.90	63.05	28.00	69.0	23.9	0.48	-0.34	3.06	0.0
20	2,000.00	6.56	20.77	1,994.89	-71.09	73.55	31.96	80.2	23.5	0.24	0.24	0.25	0.0
21	2,100.00	6.80	19.07	2,094.21	-81.71	84.48	35.92	91.8	23.0	0.31	0.24	-1.70	0.0
22	2,200.00	6.60	17.58	2,193.52	-92.50	95.56	39.59	103.4	22.5	0.26	-0.20	-1.49	0.0
23	2,300.00	6.60	18.07	2,292.86	-103.16	106.50	43.11	114.9	22.0	0.06	0.00	0.49	0.0
24	2,400.00	6.52	18.18	2,392.21	-113.74	117.36	46.66	126.3	21.7	0.08	-0.08	0.11	0.0
25	2,500.00	6.73	17.79	2,491.54	-124.43	128.33	50.22	137.8	21.4	0.21	0.21	-0.39	0.0
26	2,600.00	6.97	17.39	2,590.83	-135.51	139.70	53.83	149.7	21.1	0.24	0.24	-0.40	0.0
27	2,700.00	6.97	16.20	2,690.09	-146.85	151.32	57.33	161.8	20.8	0.14	0.00	-1.19	0.0
28	2,800.00	6.43	11.17	2,789.40	-157.95	162.64	60.11	173.4	20.3	0.80	-0.54	-5.03	0.0
29	2,900.00	5.70	19.75	2,888.85	-167.89	172.80	62.87	183.9	20.0	1.16	-0.73	8.58	0.0
30	3,000.00	6.04	23.49	2,988.32	-177.10	182.30	66.65	194.1	20.1	0.51	0.34	3.74	0.0
31	3,100.00	7.01	20.74	3,087.67	-187.30	192.83	70.91	205.5	20.2	1.02	0.97	-2.75	0.0
32	3,200.00	8.33	15.27	3,186.78	-199.67	205.53	74.97	218.8	20.0	1.51	1.32	-5.47	0.0
33	3,300.00	9.91	12.39	3,285.51	-214.76	220.92	78.73	234.5	19.6	1.64	1.58	-2.88	0.0
34	3,400.00	11.55	14.15	3,383.76	-232.52	239.04	83.02	253.0	19.2	1.67	1.64	1.76	0.0
35	3,500.00	12.34	16.94	3,481.59	-252.01	258.97	88.58	273.7	18.9	0.98	0.79	2.79	0.0
36	3,600.00	12.53	19.29	3,579.25	-271.94	279.43	95.28	295.2	18.8	0.54	0.19	2.35	0.0
37	3,700.00	12.53	19.96	3,676.87	-291.80	299.86	102.57	316.9	18.9	0.15	0.00	0.67	0.0
38	3,800.00	11.59	22.45	3,774.66	-310.70	319.34	110.11	337.8	19.0	1.07	-0.94	2.49	0.0
39	3,900.00	9.96	24.20	3,872.89	-327.30	336.52	117.49	356.4	19.2	1.66	-1.63	1.75	0.0
40	4,000.00	8.93	23.69	3,971.54	-341.79	351.51	124.15	372.8	19.5	1.03	-1.03	-0.51	0.0
41	4,100.00	8.33	21.26	4,070.40	-355.20	365.37	129.90	387.8	19.6	0.70	-0.60	-2.43	0.0
42	4,200.00	6.93	19.64	4,169.52	-367.27	377.80	134.55	401.0	19.6	1.42	-1.40	-1.62	0.0
43	4,300.00	5.90	19.53	4,268.89	-377.51	388.33	138.30	412.2	19.6	1.03	-1.03	-0.11	0.0
44	4,400.00	5.76	22.19	4,368.37	-386.71	397.82	141.91	422.4	19.6	0.30	-0.14	2.66	0.0
45	4,500.00	6.31	22.84	4,467.82	-396.11	407.53	145.94	432.9	19.7	0.55	0.55	0.65	0.0
46	4,600.00	6.98	20.64	4,567.14	-406.53	418.28	150.21	444.4	19.8	0.72	0.67	-2.20	0.0
47	4,700.00	6.26	20.24	4,666.48	-417.02	429.08	154.24	456.0	19.8	0.72	-0.72	-0.40	0.0
48	4,800.00	4.76	16.16	4,766.01	-425.88	438.18	157.28	465.6	19.7	1.55	-1.50	-4.08	0.0
49	4,900.00	3.04	10.91	4,865.78	-432.34	444.77	158.94	472.3	19.7	1.75	-1.72	-5.25	0.0
50	5,000.00	1.56	4.67	4,965.69	-436.24	448.73	159.55	476.3	19.6	1.50	-1.48	-6.24	0.0

Svy	Depth	Incl	Azimuth	TVD	VS	NS	EW	CD	CA	DLS	Build	Walk	Temp
51	5,100.00	0.67	11.83	5,065.67	-438.15	450.66	159.78	478.2	19.5	0.90	-0.89	7.16	0.0
52	5,200.00	0.89	78.71	5,165.67	-438.81	451.39	160.67	479.1	19.6	0.88	0.22	66.88	0.0
53	5,300.00	0.87	79.53	5,265.66	-438.99	451.68	162.17	479.9	19.8	0.02	-0.02	0.82	0.0
54	5,400.00	0.96	85.64	5,365.64	-439.08	451.88	163.76	480.6	19.9	0.13	0.09	6.11	0.0
55	5,500.00	1.29	91.71	5,465.62	-438.97	451.91	165.72	481.3	20.1	0.35	0.33	6.07	0.0
56	5,600.00	4.34	159.73	5,565.51	-435.22	448.32	168.15	478.8	20.6	4.04	3.05	68.02	0.0
57	5,700.00	13.07	173.14	5,664.27	-420.27	433.52	170.82	466.0	21.5	8.90	8.73	13.41	0.0
58	5,800.00	23.02	180.53	5,759.24	-389.40	402.66	171.99	437.9	23.1	10.19	9.95	7.39	0.0
59	5,900.00	32.61	181.90	5,847.59	-343.00	356.07	170.92	395.0	25.6	9.61	9.59	1.37	0.0
60	6,000.00	43.77	182.38	5,926.06	-281.64	294.38	168.58	339.2	29.8	11.16	11.16	0.48	0.0
61	6,100.00	55.11	179.76	5,990.98	-206.10	218.56	167.31	275.2	37.4	11.51	11.34	-2.62	0.0
62	6,200.00	65.13	180.91	6,040.74	-119.77	131.96	166.76	212.7	51.6	10.07	10.02	1.15	0.0
63	6,473.00	83.70	177.90	6,113.78	141.55	-129.80	169.79	213.7	127.4	6.88	6.80	-1.10	147.2
64	6,504.00	85.40	176.90	6,116.73	172.40	-160.62	171.19	234.7	133.2	6.35	5.48	-3.23	145.4
65	6,535.00	86.70	175.50	6,118.86	203.32	-191.48	173.24	258.2	137.9	6.15	4.19	-4.52	145.4
66	6,565.00	89.80	171.10	6,119.78	233.26	-221.25	176.74	283.2	141.4	17.93	10.33	-14.67	149.0
67	6,596.00	92.80	169.00	6,119.07	264.09	-251.77	182.09	310.7	144.1	11.81	9.68	-6.77	147.2
68	6,627.00	94.90	168.10	6,116.99	294.76	-282.08	188.23	339.1	146.3	7.37	6.77	-2.90	147.2
69	6,657.00	94.90	168.30	6,114.43	324.38	-311.34	194.35	367.0	148.0	0.66	0.00	0.67	149.0
70	6,688.00	95.00	168.40	6,111.76	355.00	-341.59	200.58	396.1	149.6	0.46	0.32	0.32	149.0
71	6,719.00	95.10	169.00	6,109.03	385.63	-371.87	206.63	425.4	150.9	1.95	0.32	1.94	150.8
72	6,750.00	94.80	169.50	6,106.35	416.31	-402.21	212.39	454.8	152.2	1.88	-0.97	1.61	150.8
73	6,781.00	94.40	170.40	6,103.87	447.04	-432.64	217.79	484.4	153.3	3.17	-1.29	2.90	150.8
74	6,812.00	93.60	171.40	6,101.70	477.84	-463.17	222.68	513.9	154.3	4.12	-2.58	3.23	150.8
75	6,843.00	93.20	172.50	6,099.86	508.71	-493.81	227.01	543.5	155.3	3.77	-1.29	3.55	152.6
76	6,874.00	92.50	173.70	6,098.32	539.64	-524.55	230.73	573.1	156.3	4.48	-2.26	3.87	152.6
77	6,906.00	91.90	175.00	6,097.09	571.60	-556.37	233.88	603.5	157.2	4.47	-1.88	4.06	152.6
78	6,938.00	91.10	175.70	6,096.26	603.59	-588.25	236.47	634.0	158.1	3.32	-2.50	2.19	152.6
79	6,970.00	91.10	176.40	6,095.64	635.58	-620.17	238.67	664.5	159.0	2.19	0.00	2.19	152.6
80	7,001.00	91.60	176.50	6,094.91	666.57	-651.10	240.59	694.1	159.7	1.64	1.61	0.32	152.6
81	7,033.00	91.30	176.70	6,094.10	698.56	-683.04	242.49	724.8	160.5	1.13	-0.94	0.63	154.4
82	7,065.00	91.30	176.90	6,093.38	730.55	-714.98	244.28	755.6	161.1	0.62	0.00	0.63	154.4
83	7,097.00	91.50	177.40	6,092.59	762.53	-746.93	245.87	786.4	161.8	1.68	0.63	1.56	154.4
84	7,129.00	91.50	177.40	6,091.76	794.51	-778.89	247.32	817.2	162.4	0.00	0.00	0.00	156.2
85	7,160.00	91.50	177.60	6,090.95	825.49	-809.85	248.67	847.2	162.9	0.64	0.00	0.65	156.2
86	7,192.00	90.70	178.10	6,090.33	857.46	-841.82	249.87	878.1	163.5	2.95	-2.50	1.56	158.0
87	7,224.00	90.00	178.10	6,090.14	889.44	-873.80	250.93	909.1	164.0	2.19	-2.19	0.00	158.0
88	7,255.00	90.90	177.80	6,089.89	920.42	-904.78	252.04	939.2	164.4	3.06	2.90	-0.97	159.8
89	7,287.00	91.80	177.20	6,089.14	952.40	-936.74	253.43	970.4	164.9	3.38	2.81	-1.88	159.8
90	7,319.00	91.80	177.20	6,088.13	984.37	-968.68	255.00	1,001.7	165.3	0.00	0.00	0.00	159.8
91	7,351.00	90.90	177.10	6,087.38	1,016.36	-1,000.64	256.59	1,033.0	165.6	2.83	-2.81	-0.31	161.6
92	7,382.00	90.70	177.20	6,086.95	1,047.35	-1,031.59	258.13	1,063.4	166.0	0.72	-0.65	0.32	161.6
93	7,414.00	90.90	177.90	6,086.50	1,079.33	-1,063.56	259.50	1,094.8	166.3	2.27	0.63	2.19	161.6
94	7,446.00	91.50	178.50	6,085.83	1,111.30	-1,095.54	260.50	1,126.1	166.6	2.65	1.88	1.88	163.4
95	7,477.00	90.50	178.60	6,085.29	1,142.26	-1,126.52	261.29	1,156.4	166.9	3.24	-3.23	0.32	163.4
96	7,509.00	90.00	179.50	6,085.15	1,174.21	-1,158.52	261.82	1,187.7	167.3	3.22	-1.56	2.81	163.4
97	7,541.00	89.30	180.40	6,085.34	1,206.13	-1,190.52	261.84	1,219.0	167.6	3.56	-2.19	2.81	163.4
98	7,573.00	88.90	180.80	6,085.85	1,238.02	-1,222.51	261.51	1,250.2	167.9	1.77	-1.25	1.25	165.2
99	7,605.00	88.80	181.10	6,086.49	1,269.89	-1,254.50	260.98	1,281.4	168.2	0.99	-0.31	0.94	165.2
100	7,636.00	89.70	180.40	6,086.89	1,300.78	-1,285.49	260.57	1,311.6	168.5	3.68	2.90	-2.26	167.0
101	7,668.00	90.10	179.30	6,086.95	1,332.70	-1,317.49	260.66	1,343.0	168.8	3.66	1.25	-3.44	167.0

Svy	Depth	Incl	Azimuth	TVD	VS	NS	EW	CD	CA	DLS	Build	Walk	Temp
102	7,700.00	89.30	178.80	6,087.12	1,364.65	-1,349.49	261.19	1,374.5	169.0	2.95	-2.50	-1.56	167.0
103	7,732.00	89.00	178.50	6,087.59	1,396.61	-1,381.48	261.94	1,406.1	169.3	1.33	-0.94	-0.94	167.0
104	7,763.00	89.60	178.30	6,087.97	1,427.58	-1,412.46	262.81	1,436.7	169.5	2.04	1.94	-0.65	167.0
105	7,795.00	90.50	178.60	6,087.94	1,459.55	-1,444.45	263.67	1,468.3	169.7	2.96	2.81	0.94	167.0
106	7,827.00	90.40	179.00	6,087.69	1,491.51	-1,476.44	264.34	1,499.9	169.8	1.29	-0.31	1.25	168.8
107	7,859.00	90.20	179.20	6,087.52	1,523.46	-1,508.44	264.85	1,531.5	170.0	0.88	-0.63	0.63	168.8
108	7,890.00	90.30	179.50	6,087.39	1,554.40	-1,539.43	265.20	1,562.1	170.2	1.02	0.32	0.97	170.6
109	7,922.00	89.10	179.20	6,087.56	1,586.34	-1,571.43	265.56	1,593.7	170.4	3.87	-3.75	-0.94	170.6
110	7,954.00	88.50	179.50	6,088.23	1,618.28	-1,603.42	265.92	1,625.3	170.6	2.10	-1.88	0.94	170.6
111	7,986.00	88.50	179.90	6,089.06	1,650.20	-1,635.41	266.09	1,656.9	170.8	1.25	0.00	1.25	172.4
112	8,018.00	89.40	179.30	6,089.65	1,682.13	-1,667.40	266.31	1,688.5	170.9	3.38	2.81	-1.88	172.4
113	8,049.00	90.80	179.00	6,089.60	1,713.08	-1,698.40	266.77	1,719.2	171.1	4.62	4.52	-0.97	174.2
114	8,081.00	91.60	178.30	6,088.93	1,745.03	-1,730.38	267.53	1,750.9	171.2	3.32	2.50	-2.19	172.4
115	8,113.00	91.50	178.50	6,088.06	1,776.99	-1,762.36	268.42	1,782.7	171.3	0.70	-0.31	0.63	172.4
116	8,145.00	90.90	178.80	6,087.39	1,808.95	-1,794.34	269.17	1,814.4	171.5	2.10	-1.88	0.94	172.4
117	8,176.00	90.90	179.90	6,086.90	1,839.89	-1,825.34	269.53	1,845.1	171.6	3.55	0.00	3.55	172.4
118	8,208.00	90.00	180.80	6,086.65	1,871.79	-1,857.33	269.33	1,876.8	171.7	3.98	-2.81	2.81	172.4
119	8,240.00	88.80	181.60	6,086.99	1,903.65	-1,889.32	268.66	1,908.3	171.9	4.51	-3.75	2.50	0.0
120	8,271.00	87.60	182.30	6,087.96	1,934.46	-1,920.29	267.61	1,938.8	172.1	4.48	-3.87	2.26	0.0
121	8,303.00	87.10	182.50	6,089.44	1,966.23	-1,952.23	266.27	1,970.3	172.2	1.68	-1.56	0.63	-61.6
122	8,335.00	87.80	182.30	6,090.87	1,997.99	-1,984.17	264.93	2,001.8	172.4	2.27	2.19	-0.63	177.8
123	8,366.00	88.00	181.60	6,092.00	2,028.80	-2,015.13	263.87	2,032.3	172.5	2.35	0.65	-2.26	177.8
124	8,398.00	88.70	181.10	6,092.92	2,060.64	-2,047.11	263.12	2,063.9	172.7	2.69	2.19	-1.56	179.6
125	8,430.00	89.70	180.60	6,093.37	2,092.52	-2,079.10	262.65	2,095.6	172.8	3.49	3.13	-1.56	179.6
126	8,462.00	90.20	180.00	6,093.40	2,124.42	-2,111.10	262.48	2,127.4	172.9	2.44	1.56	-1.88	179.6
127	8,493.00	90.40	180.20	6,093.23	2,155.34	-2,142.10	262.42	2,158.1	173.0	0.91	0.65	0.65	177.8
128	8,525.00	90.80	180.00	6,092.90	2,187.25	-2,174.10	262.37	2,189.9	173.1	1.40	1.25	-0.63	179.6
129	8,557.00	90.70	180.00	6,092.48	2,219.17	-2,206.09	262.37	2,221.6	173.2	0.31	-0.31	0.00	179.6
130	8,589.00	90.40	180.60	6,092.17	2,251.08	-2,238.09	262.20	2,253.4	173.3	2.10	-0.94	1.88	179.6
131	8,620.00	90.40	180.60	6,091.96	2,281.97	-2,269.09	261.88	2,284.2	173.4	0.00	0.00	0.00	179.6
132	8,652.00	90.10	180.80	6,091.82	2,313.86	-2,301.09	261.49	2,315.9	173.5	1.13	-0.94	0.63	179.6
133	8,684.00	90.00	180.90	6,091.79	2,345.74	-2,333.08	261.01	2,347.6	173.6	0.44	-0.31	0.31	179.6
134	8,716.00	90.20	181.30	6,091.73	2,377.61	-2,365.08	260.40	2,379.4	173.7	1.40	0.63	1.25	181.4
135	8,747.00	90.30	181.50	6,091.60	2,408.47	-2,396.07	259.64	2,410.1	173.8	0.72	0.32	0.65	181.4
136	8,779.00	89.90	181.50	6,091.54	2,440.32	-2,428.06	258.80	2,441.8	173.9	1.25	-1.25	0.00	181.4
137	8,811.00	90.20	181.60	6,091.51	2,472.16	-2,460.04	257.94	2,473.5	174.0	0.99	0.94	0.31	183.2
138	8,843.00	91.00	181.50	6,091.18	2,504.01	-2,492.03	257.07	2,505.3	174.1	2.52	2.50	-0.31	183.2
139	8,874.00	91.60	181.50	6,090.48	2,534.85	-2,523.01	256.26	2,536.0	174.2	1.94	1.94	0.00	181.4
140	8,906.00	91.40	180.90	6,089.64	2,566.70	-2,554.99	255.59	2,567.7	174.3	1.98	-0.63	-1.88	181.4
141	8,938.00	90.50	180.90	6,089.11	2,598.58	-2,586.99	255.09	2,599.5	174.4	2.81	-2.81	0.00	181.4
142	8,970.00	89.20	181.10	6,089.19	2,630.45	-2,618.98	254.53	2,631.3	174.4	4.11	-4.06	0.63	183.2
143	9,001.00	88.80	181.30	6,089.73	2,661.32	-2,649.97	253.88	2,662.1	174.5	1.44	-1.29	0.65	183.2
144	9,033.00	88.70	180.90	6,090.43	2,693.18	-2,681.95	253.27	2,693.9	174.6	1.29	-0.31	-1.25	183.2
145	9,065.00	89.10	180.60	6,091.05	2,725.06	-2,713.95	252.85	2,725.7	174.7	1.56	1.25	-0.94	185.0
146	9,097.00	90.00	180.00	6,091.30	2,756.96	-2,745.94	252.68	2,757.5	174.7	3.38	2.81	-1.88	185.0
147	9,128.00	90.80	179.90	6,091.08	2,787.89	-2,776.94	252.71	2,788.4	174.8	2.60	2.58	-0.32	185.0
148	9,160.00	90.50	179.70	6,090.72	2,819.81	-2,808.94	252.82	2,820.3	174.9	1.13	-0.94	-0.63	185.0
149	9,192.00	90.50	179.30	6,090.44	2,851.75	-2,840.94	253.10	2,852.2	174.9	1.25	0.00	-1.25	185.0
150	9,224.00	89.70	179.30	6,090.38	2,883.69	-2,872.94	253.49	2,884.1	175.0	2.50	-2.50	0.00	185.0
151	9,256.00	88.20	179.50	6,090.97	2,915.62	-2,904.93	253.82	2,916.0	175.0	4.73	-4.69	0.63	186.8
152	9,287.00	88.20	179.00	6,091.94	2,946.56	-2,935.91	254.23	2,946.9	175.1	1.61	0.00	-1.61	186.8

Svy	Depth	Incl	Azimuth	TVD	VS	NS	EW	CD	CA	DLS	Build	Walk	Temp
153	9,319.00	88.70	178.50	6,092.81	2,978.51	-2,967.89	254.93	2,978.8	175.1	2.21	1.56	-1.56	188.6
154	9,351.00	89.40	177.90	6,093.34	3,010.48	-2,999.87	255.93	3,010.8	175.1	2.88	2.19	-1.88	188.6
155	9,383.00	90.00	177.20	6,093.51	3,042.46	-3,031.84	257.30	3,042.7	175.1	2.88	1.88	-2.19	188.6
156	9,414.00	90.30	177.20	6,093.42	3,073.45	-3,062.80	258.81	3,073.7	175.2	0.97	0.97	0.00	188.6
157	9,446.00	90.90	177.20	6,093.09	3,105.44	-3,094.76	260.38	3,105.7	175.2	1.88	1.88	0.00	-61.6
158	9,478.00	90.40	176.90	6,092.73	3,137.44	-3,126.72	262.02	3,137.7	175.2	1.82	-1.56	-0.94	188.6
159	9,510.00	90.30	176.70	6,092.53	3,169.43	-3,158.67	263.81	3,169.7	175.2	0.70	-0.31	-0.63	188.6
160	9,542.00	90.40	176.50	6,092.34	3,201.43	-3,190.61	265.71	3,201.7	175.2	0.70	0.31	-0.63	188.6
161	9,573.00	90.30	176.50	6,092.15	3,232.43	-3,221.55	267.60	3,232.6	175.3	0.32	-0.32	0.00	188.6
162	9,605.00	90.40	176.50	6,091.95	3,264.42	-3,253.49	269.55	3,264.6	175.3	0.31	0.31	0.00	190.4
163	9,636.00	90.60	176.40	6,091.68	3,295.42	-3,284.43	271.47	3,295.6	175.3	0.72	0.65	-0.32	190.4
164	9,668.00	91.00	176.50	6,091.23	3,327.42	-3,316.37	273.45	3,327.6	175.3	1.29	1.25	0.31	190.4
165	9,700.00	90.90	177.20	6,090.70	3,359.41	-3,348.31	275.21	3,359.6	175.3	2.21	-0.31	2.19	190.4
166	9,731.00	90.70	177.60	6,090.27	3,390.40	-3,379.28	276.62	3,390.6	175.3	1.44	-0.65	1.29	190.4
167	9,763.00	90.70	177.40	6,089.88	3,422.38	-3,411.25	278.01	3,422.6	175.3	0.62	0.00	-0.63	190.4
168	9,795.00	90.90	178.30	6,089.43	3,454.36	-3,443.22	279.21	3,454.5	175.4	2.88	0.63	2.81	188.6
169	9,827.00	90.40	179.20	6,089.07	3,486.32	-3,475.21	279.91	3,486.5	175.4	3.22	-1.56	2.81	188.6
170	9,858.00	90.80	180.80	6,088.74	3,517.24	-3,506.21	279.91	3,517.4	175.4	5.32	1.29	5.16	190.4
171	9,890.00	90.10	182.00	6,088.49	3,549.09	-3,538.20	279.13	3,549.2	175.5	4.34	-2.19	3.75	188.6
172	9,922.00	89.50	182.50	6,088.61	3,580.89	-3,570.17	277.87	3,581.0	175.5	2.44	-1.88	1.56	188.6
173	9,954.00	88.00	182.70	6,089.30	3,612.67	-3,602.13	276.42	3,612.7	175.6	4.73	-4.69	0.63	188.6
174	9,985.00	87.20	182.50	6,090.60	3,643.43	-3,633.07	275.02	3,643.5	175.7	2.66	-2.58	-0.65	190.4
175	10,017.00	87.70	181.80	6,092.03	3,675.21	-3,665.01	273.82	3,675.2	175.7	2.69	1.56	-2.19	190.4
176	10,049.00	88.50	181.10	6,093.09	3,707.04	-3,696.99	273.01	3,707.1	175.8	3.32	2.50	-2.19	305.6
177	10,080.00	88.90	180.40	6,093.79	3,737.92	-3,727.98	272.60	3,737.9	175.8	2.60	1.29	-2.26	190.4
178	10,112.00	89.50	180.20	6,094.24	3,769.83	-3,759.97	272.44	3,769.8	175.9	1.98	1.88	-0.63	192.2
179	10,144.00	89.80	179.20	6,094.43	3,801.76	-3,791.97	272.60	3,801.8	175.9	3.26	0.94	-3.13	192.2
180	10,176.00	90.70	179.50	6,094.29	3,833.70	-3,823.97	272.97	3,833.7	175.9	2.96	2.81	0.94	192.2
181	10,207.00	91.40	179.00	6,093.72	3,864.64	-3,854.96	273.37	3,864.6	175.9	2.77	2.26	-1.61	192.2
182	10,239.00	90.80	177.90	6,093.11	3,896.60	-3,886.94	274.24	3,896.6	176.0	3.92	-1.88	-3.44	192.2
183	10,271.00	89.70	177.10	6,092.97	3,928.59	-3,918.91	275.63	3,928.6	176.0	4.25	-3.44	-2.50	192.2
184	10,303.00	89.80	176.20	6,093.11	3,960.59	-3,950.85	277.50	3,960.6	176.0	2.83	0.31	-2.81	192.2
185	10,335.00	89.20	175.50	6,093.39	3,992.58	-3,982.77	279.82	3,992.6	176.0	2.88	-1.88	-2.19	192.2
186	10,366.00	89.60	174.80	6,093.71	4,023.58	-4,013.66	282.44	4,023.6	176.0	2.60	1.29	-2.26	194.0
187	10,398.00	90.50	174.80	6,093.69	4,055.57	-4,045.52	285.34	4,055.6	176.0	2.81	2.81	0.00	194.0
188	10,430.00	91.50	174.10	6,093.13	4,087.56	-4,077.37	288.43	4,087.6	176.0	3.81	3.13	-2.19	194.0
189	10,461.00	92.00	173.90	6,092.18	4,118.53	-4,108.18	291.67	4,118.5	175.9	1.74	1.61	-0.65	194.0
190	10,493.00	91.60	173.70	6,091.18	4,150.49	-4,139.98	295.13	4,150.5	175.9	1.40	-1.25	-0.63	194.0
191	10,525.00	92.00	172.80	6,090.17	4,182.44	-4,171.74	298.89	4,182.4	175.9	3.08	1.25	-2.81	194.0
192	10,557.00	91.30	173.40	6,089.25	4,214.38	-4,203.50	302.73	4,214.4	175.9	2.88	-2.19	1.88	194.0
193	10,589.00	90.80	174.40	6,088.66	4,246.36	-4,235.31	306.13	4,246.4	175.9	3.49	-1.56	3.13	194.0
194	10,620.00	91.00	175.00	6,088.18	4,277.35	-4,266.17	308.99	4,277.3	175.9	2.04	0.65	1.94	194.0
195	10,652.00	91.20	175.30	6,087.56	4,309.34	-4,298.05	311.70	4,309.3	175.9	1.13	0.63	0.94	194.0
196	10,684.00	90.70	176.70	6,087.03	4,341.33	-4,329.97	313.93	4,341.3	175.9	4.65	-1.56	4.38	194.0
197	10,716.00	89.60	177.80	6,086.95	4,373.32	-4,361.93	315.46	4,373.3	175.9	4.86	-3.44	3.44	194.0
198	10,763.00	89.40	177.80	6,087.36	4,420.30	-4,408.90	317.27	4,420.3	175.9	0.43	-0.43	0.00	195.8