

# Directional Survey Report

Company Name: Bill Barrett Corp  
 Well Name: Anschutz State 5-62-25-0108BH  
 Rig ID: SST 17  
 API/UWI: 05-123-38353  
 Field: NE Wattenberg  
 Location:  
 State/Prov: CO  
 County: Weld Co

Survey Company: Sharewell Energy  
 Job Number: 20131104  
 Start Date: 11/15/2013  
 End Date: 11/24/13  
 Declination: 8.28  
 Proposed Azimuth: 78.29  
 North Reference: True

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	Build	Turn	Temp
Tiein	839.00	0.00	0.00	839.00	0.00	0.00	0.00	38.45	-38.45	-45.50	0.00
1	870.00	0.50	59.60	870.00	0.07	0.12	0.13	1.61	1.61	192.26	73.10
2	960.00	3.20	348.50	959.95	2.73	-0.05	0.51	3.42	3.00	121.00	73.10
3	1,050.00	5.60	351.30	1,049.68	9.53	-1.21	0.75	2.68	2.67	3.11	73.10
4	1,141.00	7.20	349.30	1,140.11	19.53	-2.94	1.08	1.77	1.76	-2.20	80.40
5	1,233.00	6.90	339.90	1,231.42	30.38	-5.91	0.38	1.29	-0.33	-10.22	80.40
6	1,324.00	9.40	343.50	1,321.49	42.64	-9.90	-1.04	2.80	2.75	3.96	80.40
7	1,415.00	10.80	345.40	1,411.08	58.02	-14.16	-2.09	1.58	1.54	2.09	87.70
8	1,510.00	12.50	342.60	1,504.12	76.44	-19.48	-3.56	1.89	1.79	-2.95	87.70
9	1,605.00	14.10	343.00	1,596.57	97.32	-25.94	-5.65	1.69	1.68	0.42	87.70
10	1,701.00	14.00	342.00	1,689.69	119.55	-32.94	-8.00	0.27	-0.10	-1.04	87.70
11	1,796.00	13.10	339.10	1,782.05	140.53	-40.34	-10.97	1.19	-0.95	-3.05	95.00
12	1,892.00	13.80	346.00	1,875.42	161.81	-46.99	-13.17	1.82	0.73	7.19	95.00
13	1,986.00	14.70	345.70	1,966.53	184.25	-52.65	-14.16	0.96	0.96	-0.32	95.00
14	2,082.00	13.90	351.60	2,059.56	207.46	-57.34	-14.04	1.73	-0.83	6.15	102.30
15	2,177.00	13.10	348.90	2,151.94	229.31	-61.08	-13.27	1.07	-0.84	-2.84	102.30
16	2,272.00	14.50	348.20	2,244.19	251.52	-65.58	-13.17	1.48	1.47	-0.74	102.30
17	2,366.00	13.30	346.70	2,335.44	273.56	-70.48	-13.49	1.33	-1.28	-1.60	102.30
18	2,461.00	14.90	348.20	2,427.57	296.15	-75.49	-13.81	1.73	1.68	1.58	109.60
19	2,557.00	14.20	346.90	2,520.49	319.70	-80.68	-14.12	0.80	-0.73	-1.35	109.60
20	2,653.00	13.20	347.60	2,613.76	341.88	-85.71	-14.53	1.06	-1.04	0.73	109.60
21	2,748.00	14.80	349.20	2,705.94	364.39	-90.31	-14.47	1.73	1.68	1.68	109.60
22	2,843.00	14.10	347.60	2,797.93	387.61	-95.07	-14.42	0.85	-0.74	-1.68	116.90
23	2,938.00	13.10	341.90	2,890.27	409.15	-100.90	-15.76	1.76	-1.05	-6.00	116.90
24	3,030.00	13.50	346.50	2,979.80	429.50	-106.64	-17.25	1.23	0.43	5.00	116.90
25	3,125.00	13.20	342.50	3,072.24	450.63	-112.49	-18.69	1.02	-0.32	-4.21	116.90
26	3,220.00	13.70	345.60	3,164.63	471.87	-118.55	-20.32	0.92	0.53	3.26	124.10
27	3,315.00	14.50	344.20	3,256.77	494.21	-124.59	-21.69	0.92	0.84	-1.47	116.90
28	3,410.00	14.50	347.70	3,348.75	517.27	-130.36	-22.66	0.92	0.00	3.68	116.90
29	3,506.00	14.70	347.80	3,441.65	540.92	-135.50	-22.89	0.21	0.21	0.10	116.90
30	3,601.00	13.70	348.20	3,533.74	563.72	-140.34	-23.01	1.06	-1.05	0.42	116.90
31	3,696.00	13.20	346.80	3,626.14	585.29	-145.12	-23.31	0.63	-0.53	-1.47	116.90
32	3,791.00	12.90	347.70	3,718.68	606.21	-149.86	-23.70	0.38	-0.32	0.95	116.90
33	3,887.00	12.30	348.40	3,812.37	626.70	-154.20	-23.79	0.64	-0.63	0.73	116.90
34	3,983.00	11.10	349.50	3,906.38	645.80	-157.94	-23.58	1.27	-1.25	1.15	116.90
35	4,078.00	10.50	346.20	3,999.69	663.20	-161.67	-23.70	0.91	-0.63	-3.47	116.90
36	4,173.00	9.60	345.70	4,093.24	679.28	-165.69	-24.37	0.95	-0.95	-0.53	116.90
37	4,268.00	9.00	344.80	4,186.99	694.13	-169.59	-25.18	0.65	-0.63	-0.95	124.10
38	4,363.00	7.90	342.40	4,280.95	707.52	-173.52	-26.31	1.22	-1.16	-2.53	124.10
39	4,458.00	6.60	331.40	4,375.20	718.54	-178.10	-28.56	2.00	-1.37	-11.58	124.10
40	4,553.00	6.10	354.00	4,469.63	728.35	-181.25	-29.65	2.66	-0.53	23.79	124.10
41	4,649.00	5.50	350.90	4,565.14	737.97	-182.51	-28.93	0.70	-0.63	-3.23	124.10
42	4,744.00	6.30	345.50	4,659.63	747.51	-184.53	-28.98	1.02	0.84	-5.68	124.10
43	4,839.00	5.60	345.80	4,754.12	757.05	-186.97	-29.43	0.74	-0.74	0.32	124.10
44	4,935.00	5.60	343.20	4,849.66	766.08	-189.48	-30.05	0.26	0.00	-2.71	124.10
45	5,029.00	4.90	340.90	4,943.27	774.26	-192.12	-30.97	0.78	-0.74	-2.45	124.10
46	5,125.00	4.70	350.10	5,038.93	782.01	-194.13	-31.38	0.83	-0.21	9.58	131.40
47	5,219.00	0.90	357.50	5,132.80	786.54	-194.83	-31.14	4.05	-4.04	7.87	131.40
48	5,314.00	0.80	342.40	5,227.79	787.92	-195.06	-31.09	0.26	-0.11	-15.89	138.70
49	5,410.00	0.70	341.50	5,323.79	789.11	-195.45	-31.22	0.10	-0.10	-0.94	146.00

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	Build	Turn	Temp
50	5,505.00	0.60	345.40	5,418.78	790.15	-195.76	-31.32	0.12	-0.11	4.11	146.00
51	5,601.00	0.60	342.80	5,514.77	791.11	-196.03	-31.39	0.03	0.00	-2.71	146.00
52	5,698.00	4.80	79.10	5,611.66	792.37	-192.20	-27.38	5.05	4.33	-86.29	138.70
53	5,729.00	9.50	84.90	5,642.41	792.84	-188.37	-23.54	15.32	15.16	18.71	138.70
54	5,761.00	13.70	89.00	5,673.75	793.14	-181.95	-17.19	13.37	13.13	12.81	138.70
55	5,793.00	18.40	90.00	5,704.49	793.21	-173.11	-8.52	14.71	14.69	3.13	138.70
56	5,840.00	22.00	93.20	5,748.60	792.71	-156.89	7.26	8.01	7.66	6.81	146.00
57	5,887.00	29.10	95.50	5,790.98	791.13	-136.70	26.71	15.25	15.11	4.89	146.00
58	5,919.00	34.80	94.30	5,818.12	789.69	-119.84	42.93	17.92	17.81	-3.75	146.00
59	5,950.00	39.90	89.70	5,842.76	789.08	-101.06	61.20	18.74	16.45	-14.84	146.00
60	5,982.00	45.90	87.60	5,866.19	789.62	-79.29	82.62	19.27	18.75	-6.56	146.00
61	6,013.00	51.50	87.20	5,886.64	790.68	-56.04	105.60	18.09	18.06	-1.29	146.00
62	6,045.00	52.20	87.00	5,906.41	791.95	-30.90	130.47	2.24	2.19	-0.63	146.00
63	6,077.00	53.80	85.80	5,925.67	793.56	-5.40	155.77	5.83	5.00	-3.75	153.30
64	6,108.00	57.60	86.00	5,943.13	795.39	20.14	181.15	12.27	12.26	0.65	153.30
65	6,140.00	61.20	84.70	5,959.42	797.63	47.59	208.48	11.78	11.25	-4.06	153.30
66	6,171.00	63.50	83.40	5,973.80	800.48	74.89	235.80	8.30	7.42	-4.19	153.30
67	6,203.00	66.30	82.80	5,987.38	803.96	103.66	264.67	8.91	8.75	-1.88	153.30
68	6,234.00	68.30	86.60	5,999.34	806.59	132.13	293.08	13.02	6.45	12.26	153.30
69	6,266.00	70.50	89.80	6,010.61	807.53	162.06	322.58	11.61	6.88	10.00	153.30
70	6,298.00	71.90	90.60	6,020.92	807.42	192.35	352.22	4.97	4.38	2.50	153.30
71	6,329.00	73.40	90.80	6,030.16	807.06	221.94	381.12	4.88	4.84	0.65	153.30
72	6,361.00	74.90	90.90	6,038.90	806.60	252.72	411.16	4.70	4.69	0.31	153.30
73	6,392.00	76.90	91.00	6,046.45	806.10	282.78	440.50	6.46	6.45	0.32	153.30
74	6,424.00	78.50	90.50	6,053.27	805.69	314.04	471.03	5.23	5.00	-1.56	153.30
75	6,456.00	79.90	89.30	6,059.27	805.75	345.47	501.81	5.72	4.38	-3.75	153.30
76	6,487.00	82.90	88.60	6,063.90	806.31	376.11	531.93	9.93	9.68	-2.26	153.30
77	6,519.00	86.50	87.60	6,066.86	807.37	407.95	563.33	11.67	11.25	-3.13	153.30
78	6,550.00	87.60	87.30	6,068.45	808.75	438.88	593.89	3.68	3.55	-0.97	153.30
79	6,581.00	88.10	87.20	6,069.61	810.23	469.82	624.49	1.64	1.61	-0.32	153.30
80	6,613.00	88.80	87.30	6,070.48	811.77	501.78	656.09	2.21	2.19	0.31	153.30
81	6,624.00	89.00	87.20	6,070.69	812.30	512.76	666.95	2.03	1.82	-0.91	153.30
82	6,688.00	89.70	86.60	6,071.42	815.76	576.66	730.22	1.44	1.09	-0.94	167.90
83	6,752.00	89.30	87.30	6,071.98	819.16	640.57	793.49	1.26	-0.63	1.09	167.90
84	6,847.00	92.20	86.40	6,070.73	824.38	735.41	887.42	3.20	3.05	-0.95	167.90
85	6,941.00	91.60	86.80	6,067.62	829.95	829.19	980.38	0.77	-0.64	0.43	167.90
86	7,035.00	91.40	86.70	6,065.16	835.28	923.00	1,073.32	0.24	-0.21	-0.11	167.90
87	7,131.00	90.80	86.60	6,063.31	840.89	1,018.82	1,168.28	0.63	-0.63	-0.10	167.90
88	7,225.00	90.20	89.30	6,062.49	844.25	1,112.75	1,260.94	2.94	-0.64	2.87	175.00
89	7,321.00	91.70	89.10	6,060.90	845.59	1,208.72	1,355.19	1.58	1.56	-0.21	175.10
90	7,416.00	91.60	88.70	6,058.17	847.41	1,303.67	1,448.52	0.43	-0.11	-0.42	175.10
91	7,511.00	91.70	88.70	6,055.43	849.57	1,398.60	1,541.92	0.11	0.11	0.00	175.10
92	7,607.00	92.00	88.10	6,052.33	852.25	1,494.52	1,636.38	0.70	0.31	-0.63	175.10
93	7,702.00	90.90	88.00	6,049.93	855.48	1,589.43	1,729.97	1.16	-1.16	-0.11	175.00
94	7,797.00	90.30	87.30	6,048.93	859.37	1,684.34	1,823.70	0.97	-0.63	-0.74	175.10
95	7,892.00	90.70	89.80	6,048.10	861.78	1,779.30	1,917.17	2.66	0.42	2.63	175.10
96	7,987.00	90.80	89.10	6,046.86	862.69	1,874.29	2,010.37	0.74	0.11	-0.74	182.40
97	8,082.00	90.50	89.00	6,045.78	864.26	1,969.27	2,103.69	0.33	-0.32	-0.11	182.40
98	8,177.00	90.20	88.30	6,045.20	866.50	2,064.24	2,197.14	0.80	-0.32	-0.74	182.40
99	8,274.00	89.70	88.00	6,045.29	869.63	2,161.19	2,292.71	0.60	-0.52	-0.31	189.70
100	8,368.00	91.60	88.30	6,044.22	872.67	2,255.13	2,385.31	2.05	2.02	0.32	189.70
101	8,464.00	91.60	87.70	6,041.54	876.02	2,351.03	2,479.90	0.62	0.00	-0.63	189.70
102	8,560.00	90.60	88.20	6,039.70	879.45	2,446.95	2,574.52	1.16	-1.04	0.52	189.70
103	8,655.00	90.50	86.90	6,038.78	883.51	2,541.86	2,668.27	1.37	-0.11	-1.37	189.70
104	8,751.00	89.90	87.60	6,038.45	888.12	2,637.75	2,763.10	0.96	-0.63	0.73	197.00
105	8,846.00	89.80	89.40	6,038.70	890.60	2,732.71	2,856.59	1.90	-0.11	1.89	197.00
106	8,942.00	89.60	89.20	6,039.20	891.78	2,828.70	2,950.82	0.29	-0.21	-0.21	197.00
107	9,037.00	91.70	89.50	6,038.12	892.85	2,923.68	3,044.05	2.23	2.21	0.32	197.00
108	9,133.00	91.80	89.00	6,035.19	894.11	3,019.63	3,138.25	0.53	0.10	-0.52	197.00
109	9,228.00	91.20	87.70	6,032.70	896.84	3,114.56	3,231.76	1.51	-0.63	-1.37	197.00

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	Build	Turn	Temp
110	9,322.00	91.30	89.60	6,030.65	899.06	3,208.50	3,324.20	2.02	0.11	2.02	197.00
111	9,417.00	91.10	88.80	6,028.66	900.38	3,303.47	3,417.46	0.87	-0.21	-0.84	197.60
112	9,513.00	91.60	91.10	6,026.40	900.47	3,399.44	3,511.45	2.45	0.52	2.40	197.00
113	9,609.00	91.30	90.30	6,023.97	899.30	3,495.40	3,605.17	0.89	-0.31	-0.83	204.30
114	9,704.00	91.00	89.80	6,022.07	899.21	3,590.38	3,698.16	0.61	-0.32	-0.53	204.30
115	9,800.00	90.60	90.00	6,020.73	899.38	3,686.37	3,792.18	0.47	-0.42	0.21	204.30
116	9,896.00	90.20	89.70	6,020.06	899.63	3,782.37	3,886.23	0.52	-0.42	-0.31	204.30
117	9,990.00	89.50	89.40	6,020.30	900.37	3,876.36	3,978.42	0.81	-0.74	-0.32	204.30
118	10,085.00	89.10	89.90	6,021.46	900.95	3,971.35	4,071.56	0.67	-0.42	0.53	204.30
119	10,180.00	90.30	88.10	6,021.96	902.61	4,066.33	4,164.89	2.28	1.26	-1.89	204.30
120	10,275.00	89.70	86.40	6,021.96	907.17	4,161.22	4,258.73	1.90	-0.63	-1.79	204.30
121	10,370.00	92.80	87.50	6,019.89	912.22	4,256.05	4,352.61	3.46	3.26	1.16	204.00
122	10,370.15	92.80	87.50	6,019.88	912.23	4,256.20	4,352.76	0.00	0.00	0.00	204.00
123	10,465.00	92.80	86.90	6,015.25	916.85	4,350.82	4,446.35	0.63	0.00	-0.63	204.00
124	10,560.00	91.60	87.00	6,011.60	921.90	4,445.62	4,540.20	1.27	-1.26	0.11	204.30
125	10,656.00	91.80	86.70	6,008.75	927.18	4,541.43	4,635.09	0.38	0.21	-0.31	211.60
PRJ	10,713.00	91.80	86.70	6,006.96	930.46	4,598.31	4,691.45	0.00	0.00	0.00	0.00