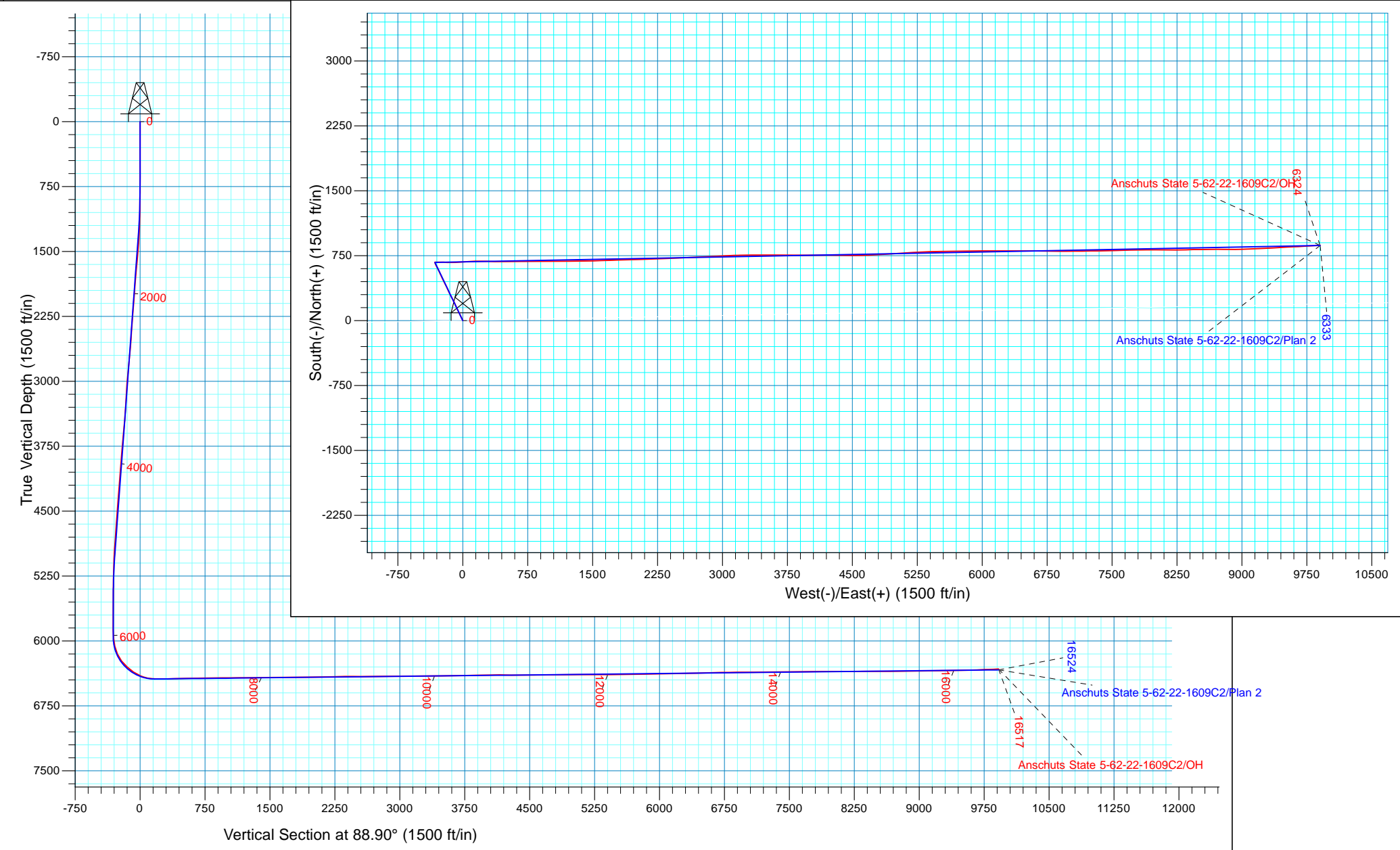


WELL DETAILS: Anschutz State 5-62-22-1609C2				PROJECT DETAILS: Weld County, CO NAD 83	
GL 4719' & KB 16' @ 4735.00ft (Cade 24) 4719.00				Geodetic System: US State Plane 1983	
Northing Easting Latitude Longitude				Datum: North American Datum 1983	
1386054.69 3329201.72 40° 23' 13.560 N 104° 19' 5.452 W				Ellipsoid: GRS 1980	
				Zone: Colorado Northern Zone	
				System Datum: Mean Sea Level	
				Local North: True	





**Bill Barrett Corporation**

## **Bill Barrett Corp.**

Weld County, CO NAD 83

Anschutz State 5-62-22\_23 SWNW Pad

Anschuts State 5-62-22-1609C2

OH

Design: OH

## **Standard Survey Report**

29 September, 2015



**Scientific Drilling**

[www.scientificdrilling.com](http://www.scientificdrilling.com)



<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschuts State 5-62-22-1609C2
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Site:</b>	Anschutz State 5-62-22_23 SWNW Pad	<b>MD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Well:</b>	Anschutz State 5-62-22-1609C2	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Casper District

<b>Project</b>	Weld County, CO NAD 83		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

<b>Site</b>	Anschutz State 5-62-22_23 SWNW Pad		
<b>Site Position:</b>		<b>Northing:</b>	1,386,054.73 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,329,201.72 usft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in
		<b>Latitude:</b>	40° 23' 13.560 N
		<b>Longitude:</b>	104° 19' 5.452 W
		<b>Grid Convergence:</b>	0.76 °

Well	Anschutz State 5-62-22-1609C2, 2000' FNL 350' FWL Sec 22 T5N R62W					
Well Position	+N/-S	0.00 ft	Northing:	1,386,054.69 usft	Latitude:	40° 23' 13.560 N
	+E/-W	0.00 ft	Easting:	3,329,201.72 usft	Longitude:	104° 19' 5.452 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,719.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2015	9/23/2015	8.27	67.03	52,653

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	88.90	

<b>Survey Program</b>	<b>Date</b>	9/29/2015			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
823.00	6,753.00	Survey #1 - Vertical / Curve (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
6,888.00	16,517.00	Survey #2 - Lateral (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
823.00	0.00	0.00	823.00	0.00	0.00	0.00	0.00	0.00	0.00	
832.00	0.06	260.45	832.00	0.00	0.00	0.00	0.67	0.67	0.00	
<b>Casing Assumed Vertical</b>										
886.00	0.42	260.45	886.00	-0.04	-0.23	-0.23	0.67	0.67	0.00	
<b>First SDI MWD Survey</b>										
978.00	2.69	347.32	977.96	2.01	-1.03	-1.00	2.93	2.47	94.42	
1,069.00	3.64	344.11	1,068.82	6.87	-2.29	-2.16	1.06	1.04	-3.53	
1,161.00	4.53	334.25	1,160.59	12.96	-4.67	-4.42	1.23	0.97	-10.72	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschuts State 5-62-22-1609C2
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Site:</b>	Anschutz State 5-62-22_23 SWNW Pad	<b>MD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Well:</b>	Anschutz State 5-62-22-1609C2	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,253.00	6.51	334.69	1,252.16	20.94	-8.48	-8.08	2.15	2.15	0.48
1,344.00	7.82	334.17	1,342.45	31.18	-13.38	-12.78	1.44	1.44	-0.57
1,435.00	9.54	334.04	1,432.40	43.53	-19.38	-18.54	1.89	1.89	-0.14
1,527.00	11.22	333.10	1,522.89	58.37	-26.77	-25.64	1.84	1.83	-1.02
1,618.00	11.55	331.40	1,612.10	74.26	-35.14	-33.70	0.52	0.36	-1.87
1,710.00	11.37	332.32	1,702.27	90.38	-43.76	-42.01	0.28	-0.20	1.00
1,801.00	10.80	333.53	1,791.57	105.96	-51.72	-49.68	0.68	-0.63	1.33
1,892.00	10.79	332.53	1,880.96	121.15	-59.45	-57.12	0.21	-0.01	-1.10
1,984.00	10.21	333.20	1,971.42	136.07	-67.10	-64.48	0.64	-0.63	0.73
2,076.00	10.25	336.20	2,061.96	150.83	-74.08	-71.17	0.58	0.04	3.26
2,168.00	11.22	337.98	2,152.35	166.62	-80.74	-77.53	1.11	1.05	1.93
2,260.00	11.36	337.48	2,242.57	183.29	-87.57	-84.03	0.19	0.15	-0.54
2,351.00	10.47	336.15	2,331.92	199.13	-94.34	-90.50	1.02	-0.98	-1.46
2,447.00	10.86	334.68	2,426.26	215.28	-101.74	-97.59	0.50	0.41	-1.53
2,541.00	10.33	334.05	2,518.66	230.87	-109.21	-104.76	0.58	-0.56	-0.67
2,635.00	11.15	333.99	2,611.01	246.61	-116.89	-112.13	0.87	0.87	-0.06
2,730.00	11.08	332.22	2,704.23	262.94	-125.17	-120.10	0.37	-0.07	-1.86
2,825.00	10.83	331.13	2,797.50	278.84	-133.73	-128.36	0.34	-0.26	-1.15
2,919.00	11.26	327.33	2,889.76	294.29	-142.95	-137.28	0.90	0.46	-4.04
3,013.00	10.29	331.94	2,982.10	309.43	-151.86	-145.89	1.38	-1.03	4.90
3,108.00	10.37	336.23	3,075.56	324.74	-159.29	-153.03	0.81	0.08	4.52
3,202.00	9.53	339.34	3,168.15	339.77	-165.45	-158.90	1.06	-0.89	3.31
3,296.00	9.18	338.40	3,260.90	354.02	-170.95	-164.13	0.41	-0.37	-1.00
3,391.00	9.25	334.34	3,354.67	367.95	-177.05	-169.95	0.69	0.07	-4.27
3,485.00	10.46	333.31	3,447.28	382.38	-184.16	-176.78	1.30	1.29	-1.10
3,580.00	11.52	333.06	3,540.54	398.54	-192.33	-184.64	1.12	1.12	-0.26
3,674.00	12.29	331.85	3,632.52	415.73	-201.30	-193.28	0.86	0.82	-1.29
3,768.00	11.82	335.30	3,724.45	433.30	-210.04	-201.69	0.91	-0.50	3.67
3,862.00	11.95	336.06	3,816.43	450.94	-218.01	-209.32	0.22	0.14	0.81
3,957.00	11.52	332.64	3,909.45	468.36	-226.36	-217.33	0.86	-0.45	-3.60
4,051.00	11.23	333.33	4,001.60	484.87	-234.79	-225.44	0.34	-0.31	0.73
4,146.00	10.29	334.38	4,094.93	500.79	-242.61	-232.95	1.01	-0.99	1.11
4,240.00	9.44	333.42	4,187.54	515.25	-249.69	-239.75	0.92	-0.90	-1.02
4,335.00	9.60	334.48	4,281.23	529.37	-256.59	-246.38	0.25	0.17	1.12
4,429.00	10.08	336.09	4,373.85	543.96	-263.30	-252.81	0.59	0.51	1.71
4,523.00	9.95	335.23	4,466.41	558.86	-270.03	-259.26	0.21	-0.14	-0.91
4,617.00	10.29	334.57	4,558.95	573.81	-277.04	-265.98	0.38	0.36	-0.70
4,711.00	9.71	333.12	4,651.52	588.47	-284.23	-272.88	0.67	-0.62	-1.54
4,805.00	9.66	335.19	4,744.18	602.70	-291.12	-279.50	0.37	-0.05	2.20
4,901.00	9.54	332.52	4,838.84	617.06	-298.18	-286.27	0.48	-0.13	-2.78
4,995.00	8.82	330.92	4,931.64	630.27	-305.27	-293.12	0.81	-0.77	-1.70
5,090.00	7.64	336.04	5,025.66	642.41	-311.38	-298.99	1.46	-1.24	5.39
5,184.00	5.93	337.29	5,119.00	652.60	-315.79	-303.20	1.83	-1.82	1.33

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschuts State 5-62-22-1609C2
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Site:</b>	Anschutz State 5-62-22_23 SWNW Pad	<b>MD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Well:</b>	Anschutz State 5-62-22-1609C2	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Casper District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,278.00	4.20	345.25	5,212.63	660.41	-318.54	-305.80	1.98	-1.84	8.47	
5,372.00	2.71	356.56	5,306.45	665.96	-319.55	-306.71	1.74	-1.59	12.03	
5,467.00	1.34	323.24	5,401.40	669.09	-320.35	-307.45	1.84	-1.44	-35.07	
5,561.00	0.74	316.28	5,495.38	670.41	-321.43	-308.50	0.65	-0.64	-7.40	
5,655.00	0.84	336.79	5,589.37	671.48	-322.12	-309.17	0.32	0.11	21.82	
5,749.00	0.33	343.14	5,683.37	672.37	-322.47	-309.50	0.55	-0.54	6.76	
5,843.00	0.51	334.46	5,777.36	673.01	-322.73	-309.75	0.20	0.19	-9.23	
5,938.00	0.61	0.35	5,872.36	673.90	-322.91	-309.91	0.28	0.11	27.25	
6,032.00	5.09	84.91	5,966.23	674.77	-318.75	-305.74	5.39	4.77	89.96	
6,126.00	12.59	87.46	6,059.05	675.59	-304.34	-291.31	7.99	7.98	2.71	
6,221.00	23.77	90.99	6,149.17	675.72	-274.76	-261.74	11.82	11.77	3.72	
6,315.00	37.78	90.82	6,229.73	674.98	-226.79	-213.79	14.90	14.90	-0.18	
6,410.00	47.17	94.39	6,299.73	671.89	-162.80	-149.88	10.20	9.88	3.76	
6,504.00	56.34	87.46	6,357.90	670.98	-89.14	-76.24	11.33	9.76	-7.37	
6,598.00	66.98	85.70	6,402.46	675.97	-6.68	6.29	11.44	11.32	-1.87	
6,692.00	79.68	85.84	6,429.37	682.60	82.94	96.03	13.51	13.51	0.15	
6,753.00	87.02	89.57	6,436.43	685.01	143.43	156.55	13.48	12.03	6.11	
Last SDI MWD Curve Survey										
6,888.00	91.71	91.76	6,437.93	683.44	278.36	291.43	3.83	3.47	1.62	
First SDI MWD Lateral Survey										
6,983.00	91.48	90.22	6,435.28	681.80	373.31	386.33	1.64	-0.24	-1.62	
7,077.00	91.95	90.10	6,432.47	681.54	467.27	480.26	0.52	0.50	-0.13	
7,171.00	90.50	89.69	6,430.46	681.71	561.24	574.23	1.60	-1.54	-0.44	
7,265.00	90.74	89.29	6,429.44	682.54	655.23	668.22	0.50	0.26	-0.43	
7,360.00	90.67	89.36	6,428.27	683.66	750.22	763.21	0.10	-0.07	0.07	
7,454.00	91.01	90.18	6,426.90	684.04	844.21	857.18	0.94	0.36	0.87	
7,549.00	90.50	89.55	6,425.64	684.26	939.20	952.16	0.85	-0.54	-0.66	
7,643.00	90.30	89.56	6,424.99	684.99	1,033.19	1,046.15	0.21	-0.21	0.01	
7,737.00	90.34	89.86	6,424.46	685.47	1,127.19	1,140.14	0.32	0.04	0.32	
7,832.00	90.47	89.61	6,423.79	685.91	1,222.19	1,235.13	0.30	0.14	-0.26	
7,926.00	91.14	90.00	6,422.47	686.23	1,316.18	1,329.11	0.82	0.71	0.41	
8,021.00	90.24	88.19	6,421.33	687.73	1,411.15	1,424.10	2.13	-0.95	-1.91	
8,116.00	90.10	88.36	6,421.04	690.59	1,506.11	1,519.09	0.23	-0.15	0.18	
8,211.00	90.20	87.80	6,420.80	693.77	1,601.05	1,614.08	0.60	0.11	-0.59	
8,306.00	90.47	88.52	6,420.24	696.82	1,696.00	1,709.07	0.81	0.28	0.76	
8,399.00	90.07	88.52	6,419.80	699.22	1,788.97	1,802.06	0.43	-0.43	0.00	
8,494.00	90.74	88.24	6,419.13	701.91	1,883.93	1,897.06	0.76	0.71	-0.29	
8,589.00	91.81	88.74	6,417.02	704.41	1,978.87	1,992.03	1.24	1.13	0.53	
8,683.00	91.38	88.25	6,414.40	706.88	2,072.80	2,085.99	0.69	-0.46	-0.52	
8,777.00	91.44	88.32	6,412.09	709.69	2,166.73	2,179.96	0.10	0.06	0.07	
8,871.00	90.44	87.34	6,410.55	713.25	2,260.65	2,273.93	1.49	-1.06	-1.04	
8,966.00	90.94	87.65	6,409.40	717.40	2,355.55	2,368.89	0.62	0.53	0.33	
9,060.00	89.46	87.06	6,409.07	721.74	2,449.45	2,462.85	1.69	-1.57	-0.63	
9,155.00	89.77	87.26	6,409.71	726.45	2,544.33	2,557.81	0.39	0.33	0.21	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschuts State 5-62-22-1609C2
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Site:</b>	Anschutz State 5-62-22_23 SWNW Pad	<b>MD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Well:</b>	Anschutz State 5-62-22-1609C2	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,249.00	90.20	88.07	6,409.74	730.28	2,638.25	2,651.78	0.98	0.46	0.86
9,344.00	90.77	87.28	6,408.93	734.13	2,733.17	2,746.76	1.03	0.60	-0.83
9,438.00	90.54	87.81	6,407.86	738.16	2,827.07	2,840.72	0.61	-0.24	0.56
9,533.00	90.84	87.97	6,406.71	741.66	2,922.00	2,935.70	0.36	0.32	0.17
9,628.00	90.71	87.34	6,405.43	745.54	3,016.91	3,030.67	0.68	-0.14	-0.66
9,723.00	90.87	86.39	6,404.12	750.74	3,111.76	3,125.60	1.01	0.17	-1.00
9,817.00	89.90	88.91	6,403.49	754.59	3,205.67	3,219.57	2.87	-1.03	2.68
9,912.00	89.90	88.78	6,403.65	756.51	3,300.65	3,314.57	0.14	0.00	-0.14
10,006.00	90.37	90.15	6,403.43	757.38	3,394.65	3,408.56	1.54	0.50	1.46
10,101.00	90.70	89.99	6,402.54	757.27	3,489.64	3,503.54	0.39	0.35	-0.17
10,195.00	90.67	90.08	6,401.42	757.21	3,583.63	3,597.51	0.10	-0.03	0.10
10,289.00	90.97	90.02	6,400.07	757.13	3,677.62	3,691.48	0.33	0.32	-0.06
10,384.00	91.18	90.49	6,398.29	756.71	3,772.61	3,786.44	0.54	0.22	0.49
10,476.00	91.91	90.42	6,395.81	755.98	3,864.57	3,878.37	0.80	0.79	-0.08
10,567.00	90.94	90.71	6,393.55	755.08	3,955.54	3,969.30	1.11	-1.07	0.32
10,658.00	91.07	88.65	6,391.95	755.59	4,046.52	4,060.28	2.27	0.14	-2.26
10,750.00	89.50	89.62	6,391.50	756.97	4,138.50	4,152.27	2.01	-1.71	1.05
10,842.00	89.09	90.73	6,392.63	756.69	4,230.49	4,244.24	1.29	-0.45	1.21
10,933.00	90.24	91.09	6,393.16	755.25	4,321.48	4,335.18	1.32	1.26	0.40
11,025.00	90.44	91.51	6,392.61	753.16	4,413.45	4,427.10	0.51	0.22	0.46
11,116.00	90.37	89.66	6,391.97	752.23	4,504.44	4,518.05	2.03	-0.08	-2.03
11,208.00	89.97	88.98	6,391.70	753.32	4,596.43	4,610.05	0.86	-0.43	-0.74
11,300.00	90.70	87.70	6,391.16	755.99	4,688.39	4,702.04	1.60	0.79	-1.39
11,391.00	90.54	86.34	6,390.17	760.72	4,779.26	4,792.98	1.50	-0.18	-1.49
11,483.00	90.17	87.09	6,389.60	765.99	4,871.11	4,884.91	0.91	-0.40	0.82
11,575.00	90.67	85.75	6,388.93	771.74	4,962.92	4,976.82	1.55	0.54	-1.46
11,666.00	89.87	86.42	6,388.50	777.95	5,053.71	5,067.71	1.15	-0.88	0.74
11,758.00	90.24	86.39	6,388.41	783.72	5,145.53	5,159.62	0.40	0.40	-0.03
11,849.00	90.17	87.44	6,388.09	788.61	5,236.39	5,250.57	1.16	-0.08	1.15
11,941.00	89.97	87.14	6,387.97	792.96	5,328.29	5,342.53	0.39	-0.22	-0.33
12,032.00	90.50	89.11	6,387.60	795.94	5,419.23	5,433.52	2.24	0.58	2.16
12,123.00	90.60	88.71	6,386.73	797.67	5,510.21	5,524.51	0.45	0.11	-0.44
12,215.00	91.31	89.04	6,385.19	799.48	5,602.18	5,616.50	0.85	0.77	0.36
12,307.00	90.77	89.06	6,383.52	801.00	5,694.15	5,708.48	0.59	-0.59	0.02
12,399.00	90.47	89.22	6,382.53	802.38	5,786.14	5,800.48	0.37	-0.33	0.18
12,490.00	90.67	89.56	6,381.62	803.35	5,877.13	5,891.47	0.43	0.22	0.37
12,582.00	91.07	89.81	6,380.23	803.85	5,969.12	5,983.45	0.51	0.43	0.27
12,674.00	92.12	90.41	6,377.67	803.68	6,061.08	6,075.39	1.31	1.14	0.65
12,765.00	90.97	89.11	6,375.21	804.06	6,152.04	6,166.34	1.91	-1.26	-1.43
12,857.00	90.81	89.23	6,373.78	805.39	6,244.02	6,258.33	0.22	-0.17	0.13
12,949.00	90.54	89.40	6,372.70	806.49	6,336.01	6,350.32	0.35	-0.29	0.18
13,040.00	91.41	90.15	6,371.15	806.85	6,426.99	6,441.30	1.26	0.96	0.82
13,132.00	92.72	91.13	6,367.84	805.82	6,518.92	6,533.19	1.78	1.42	1.07

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschuts State 5-62-22-1609C2
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Site:</b>	Anschutz State 5-62-22_23 SWNW Pad	<b>MD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Well:</b>	Anschutz State 5-62-22-1609C2	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Casper District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
13,224.00	91.44	90.87	6,364.50	804.22	6,610.85	6,625.07	1.42	-1.39	-0.28	
13,316.00	90.47	90.95	6,362.96	802.76	6,702.82	6,717.00	1.06	-1.05	0.09	
13,407.00	90.64	91.17	6,362.08	801.07	6,793.80	6,807.93	0.31	0.19	0.24	
13,499.00	90.10	89.40	6,361.49	800.62	6,885.79	6,899.89	2.01	-0.59	-1.92	
13,591.00	90.00	89.14	6,361.41	801.79	6,977.79	6,991.89	0.30	-0.11	-0.28	
13,683.00	90.27	89.67	6,361.19	802.74	7,069.78	7,083.89	0.65	0.29	0.58	
13,774.00	90.34	89.69	6,360.71	803.25	7,160.78	7,174.88	0.08	0.08	0.02	
13,865.00	91.68	89.73	6,359.10	803.71	7,251.76	7,265.85	1.47	1.47	0.04	
13,957.00	91.21	89.39	6,356.78	804.42	7,343.73	7,357.82	0.63	-0.51	-0.37	
14,048.00	90.54	88.17	6,355.39	806.36	7,434.69	7,448.80	1.53	-0.74	-1.34	
14,139.00	90.77	88.74	6,354.35	808.81	7,525.66	7,539.80	0.68	0.25	0.63	
14,231.00	89.77	87.83	6,353.92	811.56	7,617.61	7,631.79	1.47	-1.09	-0.99	
14,323.00	90.47	88.48	6,353.73	814.52	7,709.56	7,723.78	1.04	0.76	0.71	
14,415.00	90.54	89.14	6,352.92	816.44	7,801.54	7,815.77	0.72	0.08	0.72	
14,506.00	90.13	89.22	6,352.38	817.74	7,892.53	7,906.77	0.46	-0.45	0.09	
14,598.00	89.90	90.08	6,352.36	818.30	7,984.52	7,998.76	0.97	-0.25	0.93	
14,690.00	90.23	90.34	6,352.26	817.96	8,076.52	8,090.74	0.46	0.36	0.28	
14,781.00	90.44	91.74	6,351.72	816.31	8,167.50	8,181.67	1.56	0.23	1.54	
14,873.00	90.37	88.76	6,351.07	815.91	8,259.49	8,273.63	3.24	-0.08	-3.24	
14,965.00	90.33	88.39	6,350.51	818.20	8,351.46	8,365.63	0.40	-0.04	-0.40	
15,056.00	91.31	89.35	6,349.21	819.99	8,442.43	8,456.62	1.51	1.08	1.05	
15,148.00	89.26	89.28	6,348.75	821.09	8,534.42	8,548.61	2.23	-2.23	-0.08	
15,240.00	89.29	89.41	6,349.91	822.14	8,626.41	8,640.60	0.15	0.03	0.14	
15,331.00	90.50	89.62	6,350.08	822.91	8,717.40	8,731.59	1.35	1.33	0.23	
15,422.00	90.54	90.75	6,349.26	822.62	8,808.39	8,822.56	1.24	0.04	1.24	
15,514.00	90.84	90.21	6,348.15	821.85	8,900.38	8,914.52	0.67	0.33	-0.59	
15,606.00	91.64	88.14	6,346.16	823.17	8,992.35	9,006.49	2.41	0.87	-2.25	
15,701.00	91.94	87.80	6,343.19	826.54	9,087.24	9,101.43	0.48	0.32	-0.36	
15,795.00	90.10	87.33	6,341.52	830.53	9,181.14	9,195.39	2.02	-1.96	-0.50	
15,890.00	90.40	87.02	6,341.10	835.21	9,276.02	9,290.35	0.45	0.32	-0.33	
15,986.00	90.44	87.03	6,340.40	840.19	9,371.89	9,386.29	0.04	0.04	0.01	
16,080.00	90.70	86.08	6,339.46	845.84	9,465.71	9,480.21	1.05	0.28	-1.01	
16,175.00	92.15	87.58	6,337.10	851.09	9,560.53	9,575.11	2.20	1.53	1.58	
16,269.00	92.45	86.91	6,333.33	855.61	9,654.35	9,668.99	0.78	0.32	-0.71	
16,363.00	92.28	86.82	6,329.45	860.74	9,748.13	9,762.86	0.20	-0.18	-0.10	
16,458.00	92.05	87.14	6,325.86	865.75	9,842.93	9,857.73	0.41	-0.24	0.34	
Last SDI MWD Survey										
16,517.00	92.05	87.14	6,323.75	868.69	9,901.82	9,916.67	0.00	0.00	0.00	
Projection to TD										

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschuts State 5-62-22-1609C2
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Site:</b>	Anschutz State 5-62-22_23 SWNW Pad	<b>MD Reference:</b>	GL 4719' & KB 16' @ 4735.00ft (Cade 24)
<b>Well:</b>	Anschutz State 5-62-22-1609C2	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Casper District

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (in)	Hole Diameter (in)
15,056.00	6,349.21	7"		7.000	8.750

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
832.00	832.00	0.00	0.00	Casing Assumed Vertical	
886.00	886.00	-0.04	-0.23	First SDI MWD Survey	
6,753.00	6,436.43	685.01	143.43	Last SDI MWD Curve Survey	
6,888.00	6,437.93	683.44	278.36	First SDI MWD Lateral Survey	
16,458.00	6,325.86	865.75	9,842.93	Last SDI MWD Survey	
16,517.00	6,323.75	868.69	9,901.82	Projection to TD	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_