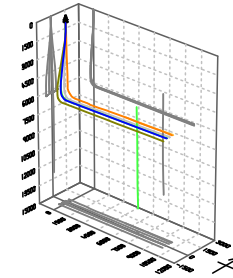




Bill Barrett Corp.
Project: Weld Co., CO
Site: Sec.35-T5N-R62W
Well: Anschutz State 5-62-35-1609BH2
Wellbore: Wellbore #1
Design: Design #4
Lat: 40° 21' 39.661 N
Long: 104° 17' 55.730 W
Pad GL: 4640.00
KB: WELL @ 4663.00usft (Original Well Elev)

Archer



T

M

Azimuths to True North

Magnetic North: 8.19°

Magnetic Field

Strength: 52829.8snT

Dip Angle: 66.98°

Date: 2014/08/04

Model: IGRF2010

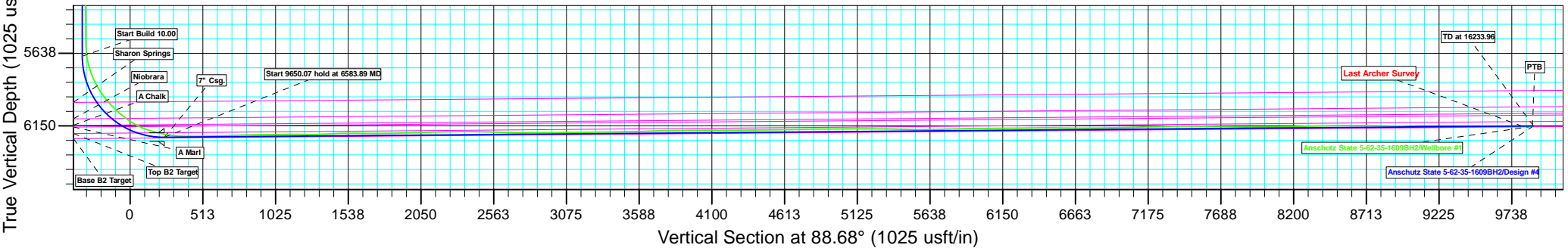
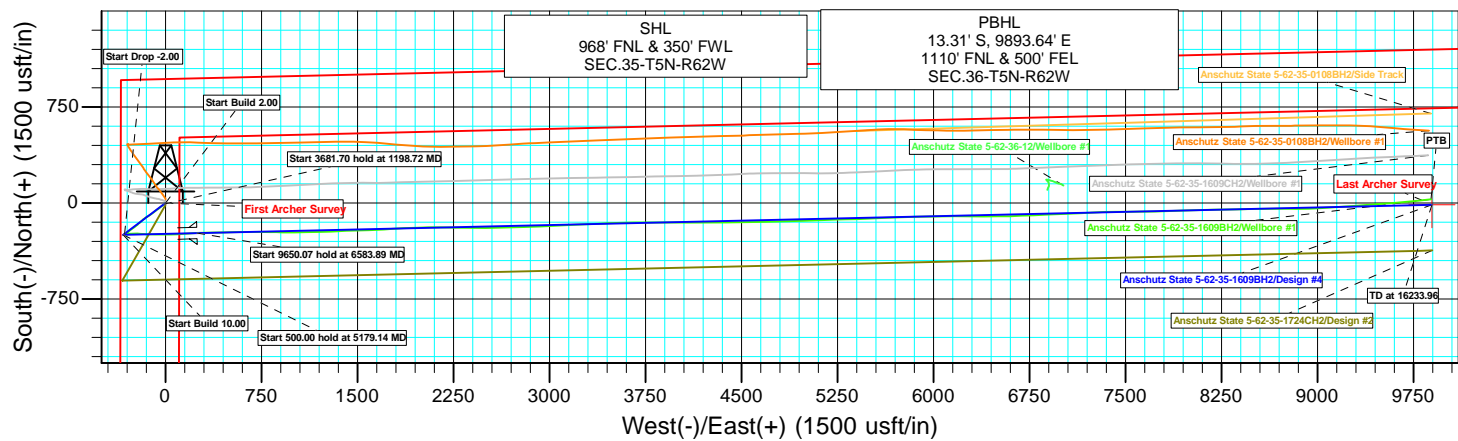
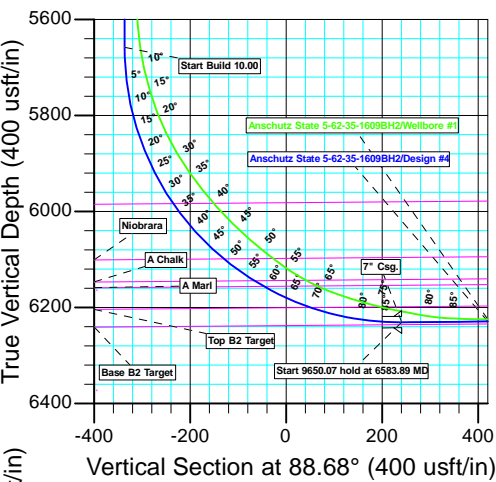
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
1198.72	5.97	233.04	1198.18	-9.35	-12.43	2.00	233.04	-12.65	Start 3681.70 hold at 1198.72 MD
4880.42	5.97	233.04	4859.88	-239.75	-318.65	0.00	0.00	-324.08	Start Drop -2.00
5179.14	0.00	0.00	5158.06	-249.10	-331.08	2.00	180.00	-336.73	Start 500.00 hold at 5179.14 MD
5679.14	0.00	0.00	5658.06	-249.10	-331.08	0.00	0.00	-336.73	Start Build 10.00
6583.89	90.47	88.68	6231.00	-235.78	246.47	10.00	88.68	240.98	Start 9650.07 hold at 6583.89 MD
16233.96	90.47	88.68	6151.00	-13.31	9893.64	0.00	0.00	9890.71	TD at 16233.96

WELL DETAILS: Anschutz State 5-62-35-1609BH2						
+N/-S	+E/-W	Northing	Ground Level:	4640.00	Latitude	Slot
0.00	0.00	1376626.177	Easting	3334724.875	40° 21' 39.661 N	104° 17' 55.730 W

PROJECT DETAILS: Weld Co., CO	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	Colorado Northern Zone
System Datum:	Mean Sea Level

CASING DETAILS		
TVD	MD	Name
6231.00	6583.89	7" Csg.

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
Anschutz State 5-62-35-1609BH2 tgt	6151.00	-13.31	9893.64	40° 21' 39.510 N	104° 15' 47.920 W	





Bill Barrett Corporation

Bill Barrett Corp.

Weld Co., CO

Sec.35-T5N-R62W

Anschutz State 5-62-35-1609BH2

Wellbore #1

Survey: Survey #1

Standard Survey Report

22 February, 2015

Archer

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Anschutz State 5-62-35-1609BH2
Project:	Weld Co., CO	TVD Reference:	WELL @ 4663.00usft (Original Well Elev)
Site:	Sec.35-T5N-R62W	MD Reference:	WELL @ 4663.00usft (Original Well Elev)
Well:	Anschutz State 5-62-35-1609BH2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Project	Weld Co., CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec.35-T5N-R62W			
Site Position:		Northing:	1,375,286.395 usft	Latitude:	40° 21' 26.420 N
From:	Lat/Long	Easting:	3,334,739.959 usft	Longitude:	104° 17' 55.770 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.78 °

Well		Anschutz State 5-62-35-1609BH2				
Well Position	+N/-S	0.00 usft	Northing:	1,376,626.177 usft	Latitude:	40° 21' 39.661 N
	+E/-W	0.00 usft	Easting:	3,334,724.875 usft	Longitude:	104° 17' 55.730 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,640.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2014/08/04	8.19	66.98	52,830

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	88.68	

Survey Program	Date	2015/02/22			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
800.00	16,160.00	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
First Archer Survey										
927.00	0.10	228.10	927.00	-0.07	-0.08	-0.08	0.08	0.08	0.00	
1,022.00	2.20	222.80	1,021.98	-1.47	-1.38	-1.42	2.21	2.21	-5.58	
1,113.00	3.20	232.50	1,112.87	-4.30	-4.59	-4.68	1.20	1.10	10.66	
1,205.00	4.50	228.20	1,204.66	-8.26	-9.31	-9.50	1.45	1.41	-4.67	
1,297.00	6.50	229.70	1,296.24	-14.04	-15.98	-16.29	2.18	2.17	1.63	
1,388.00	7.70	232.90	1,386.54	-21.05	-24.77	-25.24	1.39	1.32	3.52	
1,480.00	8.10	231.40	1,477.66	-28.81	-34.75	-35.40	0.49	0.43	-1.63	
1,572.00	7.30	227.10	1,568.83	-36.83	-44.10	-44.93	1.07	-0.87	-4.67	
1,664.00	7.90	236.60	1,660.03	-44.29	-53.66	-54.66	1.51	0.65	10.33	
1,756.00	7.40	236.40	1,751.21	-51.05	-63.87	-65.03	0.54	-0.54	-0.22	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Anschutz State 5-62-35-1609BH2
Project:	Weld Co., CO	TVD Reference:	WELL @ 4663.00usft (Original Well Elev)
Site:	Sec.35-T5N-R62W	MD Reference:	WELL @ 4663.00usft (Original Well Elev)
Well:	Anschutz State 5-62-35-1609BH2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,847.00	6.80	234.30	1,841.51	-57.44	-73.12	-74.43	0.72	-0.66	-2.31	
1,939.00	6.70	232.00	1,932.87	-63.92	-81.78	-83.23	0.31	-0.11	-2.50	
2,030.00	7.10	233.40	2,023.22	-70.54	-90.48	-92.08	0.48	0.44	1.54	
2,122.00	6.50	233.50	2,114.57	-77.03	-99.23	-100.97	0.65	-0.65	0.11	
2,214.00	5.50	232.00	2,206.06	-82.84	-106.89	-108.77	1.10	-1.09	-1.63	
2,306.00	6.20	231.90	2,297.58	-88.62	-114.27	-116.28	0.76	0.76	-0.11	
2,398.00	7.40	235.70	2,388.93	-95.02	-123.07	-125.23	1.39	1.30	4.13	
2,489.00	7.50	237.10	2,479.17	-101.55	-132.90	-135.21	0.23	0.11	1.54	
2,581.00	7.10	238.10	2,570.42	-107.82	-142.77	-145.22	0.46	-0.43	1.09	
2,673.00	7.30	238.60	2,661.70	-113.87	-152.59	-155.17	0.23	0.22	0.54	
2,765.00	7.20	238.50	2,752.96	-119.93	-162.49	-165.21	0.11	-0.11	-0.11	
2,856.00	6.50	234.40	2,843.31	-125.90	-171.54	-174.40	0.94	-0.77	-4.51	
2,948.00	6.60	222.80	2,934.71	-132.82	-179.37	-182.38	1.44	0.11	-12.61	
3,040.00	7.00	229.20	3,026.07	-140.36	-187.20	-190.39	0.93	0.43	6.96	
3,132.00	6.20	223.50	3,117.46	-147.62	-194.87	-198.22	1.12	-0.87	-6.20	
3,223.00	6.00	232.00	3,207.94	-154.12	-202.00	-205.50	1.02	-0.22	9.34	
3,315.00	7.00	227.70	3,299.35	-160.85	-209.93	-213.58	1.21	1.09	-4.67	
3,409.00	8.40	229.10	3,392.50	-169.20	-219.36	-223.20	1.50	1.49	1.49	
3,504.00	8.80	230.10	3,486.43	-178.41	-230.18	-234.23	0.45	0.42	1.05	
3,599.00	9.20	232.20	3,580.27	-187.72	-241.76	-246.02	0.54	0.42	2.21	
3,694.00	9.10	232.40	3,674.06	-196.96	-253.71	-258.18	0.11	-0.11	0.21	
3,789.00	8.40	234.20	3,767.95	-205.60	-265.29	-269.95	0.79	-0.74	1.89	
3,883.00	8.00	234.30	3,860.99	-213.44	-276.17	-281.01	0.43	-0.43	0.11	
3,978.00	7.30	232.60	3,955.14	-220.96	-286.33	-291.35	0.77	-0.74	-1.79	
4,073.00	6.80	232.80	4,049.42	-228.03	-295.61	-300.78	0.53	-0.53	0.21	
4,167.00	5.70	231.50	4,142.86	-234.30	-303.69	-309.01	1.18	-1.17	-1.38	
4,262.00	4.10	234.90	4,237.51	-239.19	-310.16	-315.59	1.71	-1.68	3.58	
4,357.00	2.50	247.60	4,332.35	-241.93	-314.86	-320.35	1.84	-1.68	13.37	
4,451.00	1.10	263.30	4,426.31	-242.82	-317.65	-323.16	1.57	-1.49	16.70	
4,546.00	0.10	55.30	4,521.30	-242.88	-318.49	-324.00	1.25	-1.05	160.00	
4,641.00	0.40	82.00	4,616.30	-242.78	-318.09	-323.60	0.33	0.32	28.11	
4,735.00	0.70	95.40	4,710.30	-242.79	-317.20	-322.70	0.35	0.32	14.26	
4,830.00	0.70	94.10	4,805.29	-242.89	-316.04	-321.55	0.02	0.00	-1.37	
4,924.00	0.80	85.20	4,899.28	-242.87	-314.81	-320.32	0.16	0.11	-9.47	
5,020.00	1.00	81.40	4,995.27	-242.69	-313.32	-318.82	0.22	0.21	-3.96	
5,114.00	0.90	78.50	5,089.26	-242.42	-311.78	-317.28	0.12	-0.11	-3.09	
5,209.00	0.90	88.40	5,184.24	-242.25	-310.30	-315.80	0.16	0.00	10.42	
5,304.00	0.80	96.40	5,279.23	-242.31	-308.90	-314.40	0.16	-0.11	8.42	
5,399.00	0.70	88.60	5,374.23	-242.36	-307.66	-313.16	0.15	-0.11	-8.21	
5,494.00	0.60	84.20	5,469.22	-242.30	-306.59	-312.09	0.12	-0.11	-4.63	
5,588.00	0.90	84.00	5,563.21	-242.17	-305.36	-310.86	0.32	0.32	-0.21	
5,636.00	3.70	79.60	5,611.17	-241.85	-303.46	-308.95	5.84	5.83	-9.17	
5,682.00	8.20	83.50	5,656.91	-241.21	-298.74	-304.22	9.82	9.78	8.48	
5,729.00	12.60	85.70	5,703.13	-240.45	-290.30	-295.76	9.40	9.36	4.68	
5,777.00	16.90	87.30	5,749.53	-239.73	-278.10	-283.55	9.00	8.96	3.33	
5,824.00	20.70	87.90	5,794.02	-239.10	-262.97	-268.41	8.10	8.09	1.28	
5,871.00	26.00	88.50	5,837.15	-238.53	-244.36	-249.79	11.29	11.28	1.28	
5,918.00	30.70	93.00	5,878.51	-238.89	-222.06	-227.51	10.98	10.00	9.57	
5,966.00	35.30	94.50	5,918.75	-240.62	-195.99	-201.48	9.73	9.58	3.12	
6,013.00	38.70	93.50	5,956.29	-242.58	-167.77	-173.32	7.35	7.23	-2.13	
6,060.00	41.80	92.10	5,992.15	-244.05	-137.45	-143.03	6.87	6.60	-2.98	
6,107.00	45.20	90.60	6,026.24	-244.80	-105.11	-110.72	7.56	7.23	-3.19	
6,154.00	48.90	90.10	6,058.26	-245.01	-70.71	-76.34	7.91	7.87	-1.06	
6,201.00	51.40	90.20	6,088.38	-245.10	-34.63	-40.27	5.32	5.32	0.21	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Anschutz State 5-62-35-1609BH2
Project:	Weld Co., CO	TVD Reference:	WELL @ 4663.00usft (Original Well Elev)
Site:	Sec.35-T5N-R62W	MD Reference:	WELL @ 4663.00usft (Original Well Elev)
Well:	Anschutz State 5-62-35-1609BH2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,249.00	55.40	90.40	6,116.99	-245.30	3.89	-1.76	8.34	8.33	0.42
6,296.00	60.90	89.10	6,141.78	-245.12	43.80	38.14	11.94	11.70	-2.77
6,344.00	67.30	87.40	6,162.74	-243.78	86.93	81.29	13.71	13.33	-3.54
6,392.00	72.60	86.50	6,179.19	-241.38	131.94	126.35	11.18	11.04	-1.87
6,439.00	74.40	86.20	6,192.54	-238.51	176.91	171.37	3.88	3.83	-0.64
6,487.00	78.50	86.90	6,203.78	-235.70	223.48	217.99	8.66	8.54	1.46
6,533.00	78.90	87.00	6,212.79	-233.30	268.53	263.08	0.90	0.87	0.22
6,581.00	83.10	88.10	6,220.30	-231.28	315.88	310.47	9.04	8.75	2.29
6,622.00	87.70	88.80	6,223.59	-230.17	356.72	351.33	11.35	11.22	1.71
6,709.00	90.40	89.20	6,225.03	-228.66	443.69	438.30	3.14	3.10	0.46
6,803.00	90.20	89.00	6,224.54	-227.18	537.68	532.30	0.30	-0.21	-0.21
6,898.00	93.00	89.30	6,221.89	-225.77	632.62	627.25	2.96	2.95	0.32
6,992.00	91.90	91.00	6,217.87	-226.02	726.53	721.13	2.15	-1.17	1.81
7,086.00	91.60	91.10	6,215.00	-227.74	820.47	815.01	0.34	-0.32	0.11
7,181.00	90.50	90.10	6,213.26	-228.73	915.45	909.93	1.56	-1.16	-1.05
7,276.00	90.90	90.20	6,212.10	-228.98	1,010.44	1,004.89	0.43	0.42	0.11
7,371.00	90.20	88.70	6,211.18	-228.07	1,105.43	1,099.88	1.74	-0.74	-1.58
7,465.00	89.80	88.80	6,211.18	-226.02	1,199.40	1,193.88	0.44	-0.43	0.11
7,560.00	89.40	87.00	6,211.85	-222.54	1,294.33	1,288.86	1.94	-0.42	-1.89
7,655.00	94.00	87.40	6,209.03	-217.90	1,389.15	1,383.76	4.86	4.84	0.42
7,750.00	92.30	89.30	6,203.81	-215.17	1,483.96	1,478.61	2.68	-1.79	2.00
7,844.00	89.50	87.60	6,202.33	-212.63	1,577.90	1,572.59	3.48	-2.98	-1.81
7,939.00	89.10	87.20	6,203.49	-208.32	1,672.80	1,667.55	0.60	-0.42	-0.42
8,034.00	91.00	86.10	6,203.41	-202.77	1,767.63	1,762.49	2.31	2.00	-1.16
8,128.00	90.10	86.50	6,202.51	-196.70	1,861.43	1,856.40	1.05	-0.96	0.43
8,222.00	91.90	88.60	6,200.87	-192.69	1,955.32	1,950.36	2.94	1.91	2.23
8,317.00	91.80	88.30	6,197.80	-190.12	2,050.23	2,045.31	0.33	-0.11	-0.32
8,412.00	92.50	91.00	6,194.24	-189.54	2,145.16	2,140.22	2.93	0.74	2.84
8,506.00	90.50	91.20	6,191.78	-191.34	2,239.10	2,234.10	2.14	-2.13	0.21
8,601.00	90.50	90.60	6,190.95	-192.83	2,334.09	2,329.02	0.63	0.00	-0.63
8,696.00	88.90	91.20	6,191.44	-194.33	2,429.07	2,423.95	1.80	-1.68	0.63
8,790.00	88.30	88.70	6,193.74	-194.24	2,523.03	2,517.89	2.73	-0.64	-2.66
8,885.00	88.20	88.90	6,196.64	-192.26	2,617.97	2,612.84	0.24	-0.11	0.21
8,980.00	89.80	88.40	6,198.30	-190.02	2,712.92	2,707.83	1.76	1.68	-0.53
9,075.00	89.80	88.00	6,198.63	-187.03	2,807.88	2,802.82	0.42	0.00	-0.42
9,169.00	89.50	88.30	6,199.21	-184.00	2,901.83	2,896.82	0.45	-0.32	0.32
9,264.00	90.90	87.40	6,198.87	-180.43	2,996.75	2,991.80	1.75	1.47	-0.95
9,358.00	90.90	87.00	6,197.40	-175.84	3,090.63	3,085.76	0.43	0.00	-0.43
9,453.00	90.80	87.20	6,195.99	-171.04	3,185.50	3,180.71	0.24	-0.11	0.21
9,548.00	90.50	87.10	6,194.91	-166.31	3,280.37	3,275.67	0.33	-0.32	-0.11
9,643.00	90.40	87.20	6,194.16	-161.59	3,375.25	3,370.64	0.15	-0.11	0.11
9,737.00	90.40	87.30	6,193.51	-157.08	3,469.14	3,464.60	0.11	0.00	0.11
9,832.00	92.00	89.20	6,191.52	-154.18	3,564.07	3,559.57	2.61	1.68	2.00
9,924.00	92.30	89.30	6,188.07	-152.98	3,656.00	3,651.50	0.34	0.33	0.11
10,016.00	91.40	90.10	6,185.10	-152.50	3,747.95	3,743.44	1.31	-0.98	0.87
10,107.00	91.70	90.20	6,182.64	-152.73	3,838.91	3,834.38	0.35	0.33	0.11
10,199.00	89.80	90.10	6,181.43	-152.97	3,930.90	3,926.33	2.07	-2.07	-0.11
10,291.00	90.10	90.20	6,181.51	-153.22	4,022.90	4,018.30	0.34	0.33	0.11
10,383.00	90.20	89.90	6,181.27	-153.30	4,114.90	4,110.28	0.34	0.11	-0.33
10,475.00	90.20	89.90	6,180.95	-153.14	4,206.90	4,202.26	0.00	0.00	0.00
10,567.00	90.20	90.50	6,180.63	-153.46	4,298.90	4,294.22	0.65	0.00	0.65
10,660.00	90.50	89.00	6,180.06	-153.05	4,391.89	4,387.20	1.64	0.32	-1.61
10,752.00	91.00	88.60	6,178.86	-151.12	4,483.86	4,479.19	0.70	0.54	-0.43
10,844.00	90.80	89.00	6,177.41	-149.20	4,575.83	4,571.18	0.49	-0.22	0.43

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Anschutz State 5-62-35-1609BH2
Project:	Weld Co., CO	TVD Reference:	WELL @ 4663.00usft (Original Well Elev)
Site:	Sec.35-T5N-R62W	MD Reference:	WELL @ 4663.00usft (Original Well Elev)
Well:	Anschutz State 5-62-35-1609BH2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,937.00	90.70	88.40	6,176.19	-147.09	4,668.80	4,664.17	0.65	-0.11	-0.65
11,029.00	90.90	89.00	6,174.91	-145.00	4,760.77	4,756.16	0.69	0.22	0.65
11,121.00	90.50	87.70	6,173.79	-142.35	4,852.72	4,848.15	1.48	-0.43	-1.41
11,213.00	90.40	87.80	6,173.06	-138.74	4,944.65	4,940.14	0.15	-0.11	0.11
11,305.00	90.50	88.20	6,172.34	-135.53	5,036.59	5,032.13	0.45	0.11	0.43
11,398.00	90.70	88.30	6,171.37	-132.69	5,129.54	5,125.12	0.24	0.22	0.11
11,490.00	89.90	88.10	6,170.88	-129.80	5,221.49	5,217.11	0.90	-0.87	-0.22
11,582.00	89.00	88.90	6,171.77	-127.39	5,313.45	5,309.11	1.31	-0.98	0.87
11,674.00	89.00	88.20	6,173.37	-125.06	5,405.41	5,401.09	0.76	0.00	-0.76
11,767.00	88.00	87.70	6,175.81	-121.74	5,498.32	5,494.05	1.20	-1.08	-0.54
11,859.00	90.50	86.60	6,177.01	-117.17	5,590.19	5,586.00	2.97	2.72	-1.20
11,951.00	91.40	88.30	6,175.49	-113.07	5,682.08	5,677.97	2.09	0.98	1.85
12,043.00	91.40	88.20	6,173.24	-110.26	5,774.01	5,769.94	0.11	0.00	-0.11
12,135.00	91.20	89.00	6,171.15	-108.02	5,865.96	5,861.91	0.90	-0.22	0.87
12,226.00	90.80	89.20	6,169.56	-106.59	5,956.93	5,952.89	0.49	-0.44	0.22
12,318.00	90.50	88.70	6,168.52	-104.90	6,048.91	6,044.89	0.63	-0.33	-0.54
12,409.00	90.60	89.80	6,167.65	-103.71	6,139.90	6,135.88	1.21	0.11	1.21
12,501.00	90.70	90.10	6,166.60	-103.63	6,231.89	6,227.85	0.34	0.11	0.33
12,593.00	90.90	90.60	6,165.32	-104.19	6,323.88	6,319.80	0.59	0.22	0.54
12,685.00	89.80	89.30	6,164.76	-104.11	6,415.87	6,411.77	1.85	-1.20	-1.41
12,777.00	89.80	89.90	6,165.08	-103.47	6,507.87	6,503.76	0.65	0.00	0.65
12,868.00	89.60	88.90	6,165.55	-102.52	6,598.86	6,594.75	1.12	-0.22	-1.10
12,960.00	89.80	87.30	6,166.04	-99.47	6,690.81	6,686.74	1.75	0.22	-1.74
13,052.00	89.50	87.30	6,166.60	-95.13	6,782.70	6,778.71	0.33	-0.33	0.00
13,144.00	91.60	87.40	6,165.71	-90.88	6,874.60	6,870.68	2.29	2.28	0.11
13,235.00	91.70	88.30	6,163.09	-87.47	6,965.49	6,961.63	0.99	0.11	0.99
13,327.00	91.20	87.10	6,160.77	-83.78	7,057.39	7,053.58	1.41	-0.54	-1.30
13,419.00	91.40	86.80	6,158.68	-78.88	7,149.23	7,145.52	0.39	0.22	-0.33
13,511.00	91.90	87.40	6,156.03	-74.23	7,241.08	7,237.45	0.85	0.54	0.65
13,602.00	91.00	88.50	6,153.73	-70.98	7,331.99	7,328.41	1.56	-0.99	1.21
13,694.00	90.70	89.00	6,152.36	-68.97	7,423.95	7,420.40	0.63	-0.33	0.54
13,788.00	89.00	89.90	6,152.61	-68.07	7,517.95	7,514.38	2.05	-1.81	0.96
13,882.00	88.50	89.80	6,154.66	-67.82	7,611.92	7,608.34	0.54	-0.53	-0.11
13,977.00	89.20	88.30	6,156.57	-66.25	7,706.89	7,703.32	1.74	0.74	-1.58
14,071.00	88.90	88.80	6,158.12	-63.87	7,800.84	7,797.30	0.62	-0.32	0.53
14,166.00	90.10	87.60	6,158.95	-60.88	7,895.79	7,892.29	1.79	1.26	-1.26
14,261.00	90.20	88.20	6,158.70	-57.40	7,990.73	7,987.28	0.64	0.11	0.63
14,356.00	89.80	88.50	6,158.70	-54.67	8,085.69	8,082.28	0.53	-0.42	0.32
14,450.00	91.50	89.40	6,157.64	-52.94	8,179.66	8,176.27	2.05	1.81	0.96
14,544.00	92.10	88.50	6,154.69	-51.22	8,273.60	8,270.22	1.15	0.64	-0.96
14,639.00	91.60	88.80	6,151.62	-48.99	8,368.52	8,365.17	0.61	-0.53	0.32
14,733.00	91.40	89.00	6,149.16	-47.18	8,462.47	8,459.14	0.30	-0.21	0.21
14,828.00	90.30	89.30	6,147.75	-45.77	8,557.45	8,554.12	1.20	-1.16	0.32
14,922.00	89.50	89.70	6,147.91	-44.95	8,651.44	8,648.11	0.95	-0.85	0.43
15,016.00	89.20	90.70	6,148.98	-45.28	8,745.43	8,742.07	1.11	-0.32	1.06
15,111.00	88.70	90.10	6,150.72	-45.94	8,840.42	8,837.01	0.82	-0.53	-0.63
15,205.00	88.00	88.10	6,153.43	-44.47	8,934.36	8,930.96	2.25	-0.74	-2.13
15,299.00	89.40	86.80	6,155.56	-40.29	9,028.24	9,024.91	2.03	1.49	-1.38
15,394.00	89.90	85.60	6,156.14	-33.99	9,123.03	9,119.82	1.37	0.53	-1.26
15,489.00	89.90	85.80	6,156.31	-26.87	9,217.76	9,214.69	0.21	0.00	0.21
15,584.00	89.80	85.90	6,156.55	-19.99	9,312.51	9,309.58	0.15	-0.11	0.11
15,679.00	89.70	85.40	6,156.97	-12.79	9,407.23	9,404.44	0.54	-0.11	-0.53
15,774.00	90.00	86.10	6,157.22	-5.75	9,501.97	9,499.32	0.80	0.32	0.74
15,868.00	90.20	85.70	6,157.05	0.97	9,595.73	9,593.21	0.48	0.21	-0.43

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Anschutz State 5-62-35-1609BH2
Project:	Weld Co., CO	TVD Reference:	WELL @ 4663.00usft (Original Well Elev)
Site:	Sec.35-T5N-R62W	MD Reference:	WELL @ 4663.00usft (Original Well Elev)
Well:	Anschutz State 5-62-35-1609BH2	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,963.00	90.50	84.80	6,156.47	8.84	9,690.40	9,688.03	1.00	0.32	-0.95	
16,058.00	91.10	84.40	6,155.15	17.78	9,784.97	9,782.78	0.76	0.63	-0.42	
Last Archer Survey										
16,089.00	90.50	83.80	6,154.71	20.96	9,815.80	9,813.68	2.74	-1.94	-1.94	
PTB - Anschutz State 5-62-35-1609BH2 tgt										
16,160.00	90.50	83.80	6,154.09	28.63	9,886.38	9,884.42	0.00	0.00	0.00	

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
927.00	927.00	-0.07	-0.08	First Archer Survey	
16,089.00	6,154.71	20.96	9,815.80	Last Archer Survey	
16,160.00	6,154.09	28.63	9,886.38	PTB	

Checked By: _____	Approved By: _____	Date: _____
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