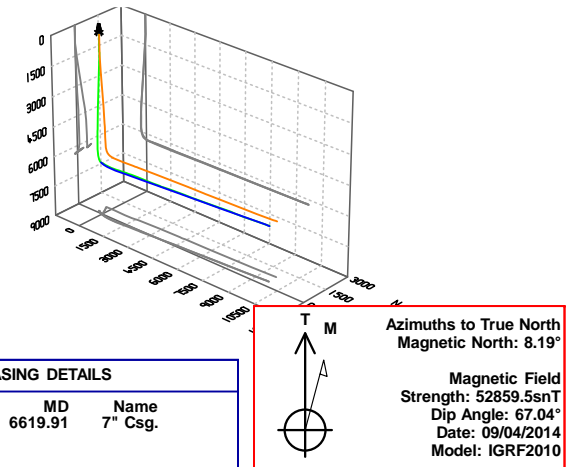




Bill Barrett Corp.
Project: Weld Co., CO
Site: Sec.34-T6N-R62W
Well: Fiducial 6-62-34-6457BH2
Wellbore: Wellbore #1
Design: Design #3
Lat: 40° 26' 21.789 N
Long: 104° 19' 3.421 W
Pad GL: 4677.00
KB: WELL @ 4699.00usft (Original Well Elev)

Archer



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
6566.00	86.60	105.90	6331.55	-41.84	22.92	0.00	0.00	21.88	Start DLS 2.00 TFO -78.39
7554.77	90.70	86.54	6355.09	-148.30	1000.73	2.00	-78.39	996.78	Start 8723.04 hold at 7554.77 MD
16277.81	90.70	86.54	6249.00	377.51	9707.26	0.00	0.00	9713.61	TD at 16277.81

WELL DETAILS: Fiducial 6-62-34-6457BH2

+N/-S	+E/-W	Northing	Ground Level: Easting	4677.00 Latitude	Longitude	Slot
0.00	0.00	1405102.804	3329104.840	40° 26' 21.789 N	104° 19' 3.421 W	

PROJECT DETAILS: Weld Co., CO

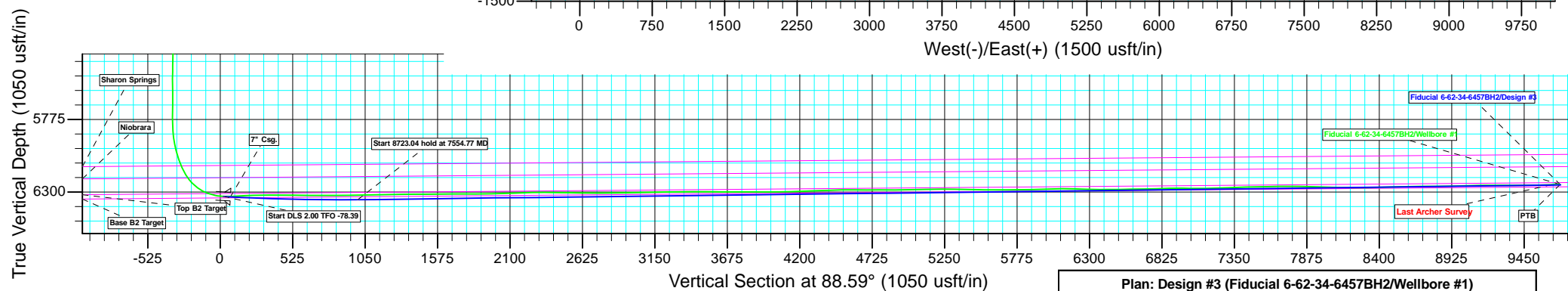
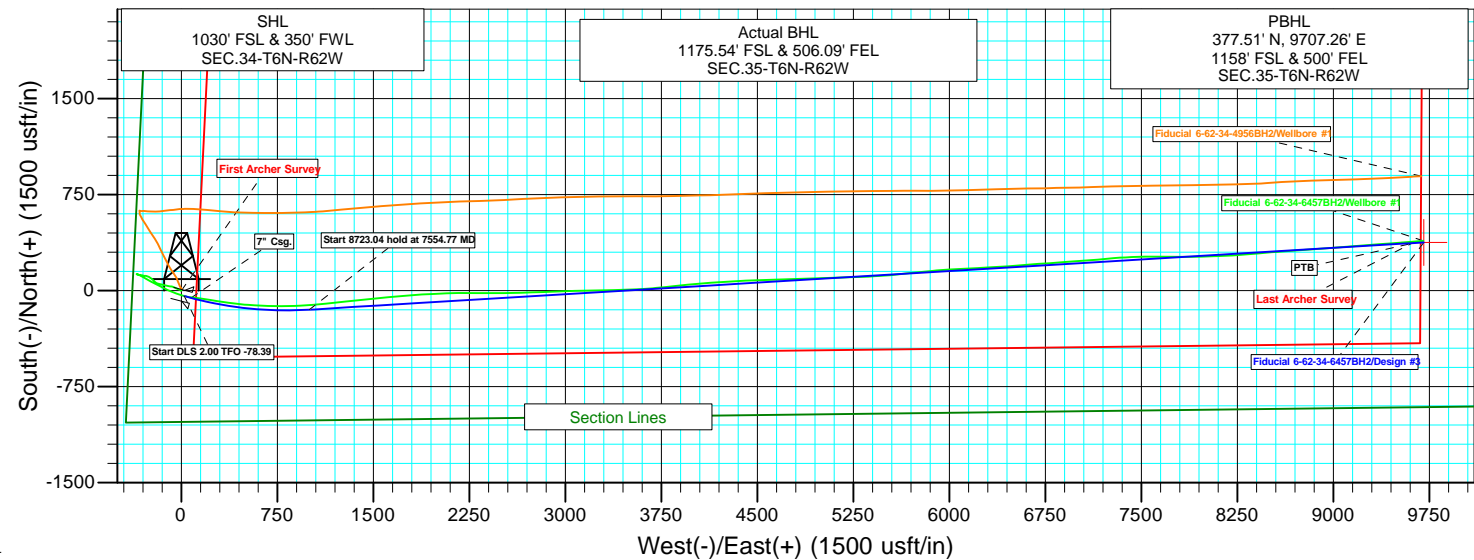
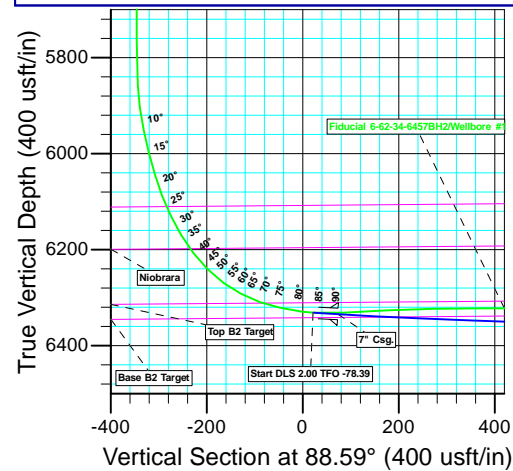
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level

CASING DETAILS

TVD	MD	Name
6334.64	6619.91	7" Csg.

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
Fiducial 6-62-34-6457BH2 tgt	6249.00	377.51	9707.26	40° 26' 25.501 N	104° 16' 57.871 W	



Plan: Design #3 (Fiducial 6-62-34-6457BH2/Wellbore #1)

Created By: Ricky Osburn

Date: 14:40, November 20 2014



Bill Barrett Corporation

Bill Barrett Corp.

Weld Co., CO

Sec.34-T6N-R62W

Fiducial 6-62-34-6457BH2

Wellbore #1

Survey: Survey #1

Standard Survey Report

21 October, 2014

Archer

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Fiducial 6-62-34-6457BH2
Project:	Weld Co., CO	TVD Reference:	WELL @ 4699.00usft (Original Well Elev)
Site:	Sec.34-T6N-R62W	MD Reference:	WELL @ 4699.00usft (Original Well Elev)
Well:	Fiducial 6-62-34-6457BH2	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.34-T6N-R62W			
Site Position:		Northing:	1,407,388.563 usft	Latitude:	40° 26' 44.369 N
From:	Lat/Long	Easting:	3,329,153.968 usft	Longitude:	104° 19' 2.392 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.76 °

Well	Fiducial 6-62-34-6457BH2					
Well Position	+N/-S	0.00 usft	Northing:	1,405,102.804 usft	Latitude:	40° 26' 21.789 N
	+E/-W	0.00 usft	Easting:	3,329,104.840 usft	Longitude:	104° 19' 3.421 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,677.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2014/09/04	8.19	67.04	52,860

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	88.59

Survey Program	Date	2014/10/21		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
820.00	16,273.00	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
First Archer Survey									
820.00	0.00	0.00	820.00	0.00	0.00	0.00	0.00	0.00	0.00
884.00	0.60	27.20	884.00	0.30	0.15	0.16	0.94	0.94	0.00
974.00	0.80	30.80	973.99	1.26	0.69	0.72	0.23	0.22	4.00
1,065.00	1.70	279.60	1,064.98	2.03	-0.32	-0.27	2.33	0.99	-122.20
1,156.00	5.20	289.90	1,155.80	3.66	-5.53	-5.43	3.89	3.85	11.32
1,247.00	5.50	292.80	1,246.40	6.75	-13.42	-13.25	0.44	0.33	3.19
1,339.00	5.20	292.90	1,338.00	10.08	-21.33	-21.07	0.33	-0.33	0.11
1,430.00	4.90	295.10	1,428.65	13.33	-28.65	-28.31	0.39	-0.33	2.42
1,522.00	5.10	294.20	1,520.30	16.68	-35.93	-35.51	0.23	0.22	-0.98
1,613.00	5.80	297.00	1,610.89	20.42	-43.72	-43.20	0.82	0.77	3.08
1,704.00	5.60	292.30	1,701.44	24.20	-51.93	-51.31	0.56	-0.22	-5.16

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Fiducial 6-62-34-6457BH2
Project:	Weld Co., CO	TVD Reference:	WELL @ 4699.00usft (Original Well Elev)
Site:	Sec.34-T6N-R62W	MD Reference:	WELL @ 4699.00usft (Original Well Elev)
Well:	Fiducial 6-62-34-6457BH2	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)	
1,795.00	5.40	295.00	1,792.02	27.69	-59.91	-59.21	0.36	-0.22	2.97	
1,886.00	5.10	291.10	1,882.64	30.96	-67.57	-66.79	0.51	-0.33	-4.29	
1,981.00	6.70	278.20	1,977.14	33.27	-76.99	-76.15	2.18	1.68	-13.58	
2,077.00	6.60	272.80	2,072.49	34.33	-88.05	-87.18	0.66	-0.10	-5.62	
2,172.00	6.20	280.30	2,166.90	35.52	-98.55	-97.64	0.97	-0.42	7.89	
2,267.00	5.60	283.40	2,261.40	37.51	-108.10	-107.15	0.71	-0.63	3.26	
2,362.00	5.20	282.80	2,355.97	39.54	-116.81	-115.80	0.43	-0.42	-0.63	
2,457.00	4.80	281.50	2,450.61	41.28	-124.90	-123.85	0.44	-0.42	-1.37	
2,552.00	5.60	286.30	2,545.22	43.38	-133.25	-132.14	0.96	0.84	5.05	
2,646.00	5.50	286.40	2,638.78	45.94	-141.97	-140.80	0.11	-0.11	0.11	
2,741.00	5.30	281.90	2,733.36	48.13	-150.63	-149.40	0.49	-0.21	-4.74	
2,836.00	5.10	284.30	2,827.97	50.07	-159.02	-157.74	0.31	-0.21	2.53	
2,931.00	4.70	280.70	2,922.62	51.84	-166.93	-165.61	0.53	-0.42	-3.79	
3,026.00	5.80	285.20	3,017.22	53.82	-175.39	-174.01	1.24	1.16	4.74	
3,121.00	5.10	282.80	3,111.79	56.02	-184.14	-182.71	0.77	-0.74	-2.53	
3,215.00	3.60	286.50	3,205.52	57.78	-191.05	-189.57	1.62	-1.60	3.94	
3,311.00	4.40	309.00	3,301.29	60.95	-196.80	-195.24	1.82	0.83	23.44	
3,406.00	6.20	315.50	3,395.88	66.91	-203.23	-201.52	1.99	1.89	6.84	
3,501.00	7.00	312.50	3,490.25	74.48	-211.09	-209.19	0.92	0.84	-3.16	
3,597.00	7.60	313.80	3,585.47	82.82	-219.98	-217.88	0.65	0.62	1.35	
3,692.00	6.50	307.00	3,679.75	90.41	-228.81	-226.52	1.45	-1.16	-7.16	
3,787.00	6.20	311.00	3,774.17	97.01	-236.98	-234.52	0.56	-0.32	4.21	
3,883.00	5.30	299.60	3,869.69	102.60	-244.75	-242.15	1.51	-0.94	-11.87	
3,978.00	4.60	299.50	3,964.34	106.64	-251.88	-249.18	0.74	-0.74	-0.11	
4,072.00	4.40	293.00	4,058.05	109.91	-258.48	-255.70	0.58	-0.21	-6.91	
4,166.00	3.60	290.20	4,151.82	112.34	-264.57	-261.72	0.88	-0.85	-2.98	
4,261.00	4.50	284.50	4,246.58	114.30	-270.97	-268.08	1.04	0.95	-6.00	
4,356.00	4.00	274.90	4,341.32	115.52	-277.88	-274.96	0.91	-0.53	-10.11	
4,451.00	4.60	270.30	4,436.05	115.82	-284.99	-282.06	0.73	0.63	-4.84	
4,546.00	4.40	282.70	4,530.76	116.64	-292.36	-289.40	1.04	-0.21	13.05	
4,641.00	3.60	284.50	4,625.53	118.19	-298.80	-295.80	0.85	-0.84	1.89	
4,736.00	4.60	277.90	4,720.28	119.46	-305.46	-302.43	1.16	1.05	-6.95	
4,831.00	5.70	279.30	4,814.90	120.74	-313.89	-310.83	1.17	1.16	1.47	
4,926.00	5.10	273.10	4,909.48	121.73	-322.76	-319.67	0.88	-0.63	-6.53	
5,021.00	4.30	279.20	5,004.16	122.53	-330.50	-327.38	0.99	-0.84	6.42	
5,116.00	4.20	296.80	5,098.90	124.67	-337.12	-333.95	1.37	-0.11	18.53	
5,211.00	3.50	303.20	5,193.69	127.83	-342.65	-339.40	0.86	-0.74	6.74	
5,306.00	1.60	271.90	5,288.59	129.46	-346.40	-343.11	2.41	-2.00	-32.95	
5,401.00	1.50	218.00	5,383.56	128.52	-348.49	-345.22	1.48	-0.11	-56.74	
5,496.00	0.20	39.80	5,478.55	127.67	-349.15	-345.90	1.79	-1.37	-187.58	
5,591.00	0.30	7.40	5,573.55	128.04	-349.01	-345.76	0.18	0.11	-34.11	
5,686.00	0.40	358.60	5,668.55	128.62	-348.99	-345.72	0.12	0.11	-9.26	
5,781.00	0.40	324.90	5,763.55	129.23	-349.19	-345.90	0.24	0.00	-35.47	
5,876.00	3.20	85.40	5,858.50	129.71	-346.74	-343.44	3.60	2.95	126.84	
5,923.00	8.40	106.20	5,905.25	128.86	-342.13	-338.85	11.76	11.06	44.26	
5,970.00	12.80	115.20	5,951.44	125.68	-334.12	-330.92	9.97	9.36	19.15	
6,017.00	16.10	120.60	5,996.95	120.14	-323.79	-320.74	7.58	7.02	11.49	
6,066.00	19.40	119.40	6,043.61	112.69	-310.85	-307.98	6.78	6.73	-2.45	
6,113.00	24.20	118.20	6,087.23	104.30	-295.55	-292.90	10.26	10.21	-2.55	
6,161.00	28.90	118.90	6,130.16	94.04	-276.72	-274.32	9.81	9.79	1.46	
6,208.00	35.40	119.80	6,169.93	81.77	-254.94	-252.85	13.87	13.83	1.91	
6,256.00	41.20	118.50	6,207.59	67.31	-228.96	-227.23	12.20	12.08	-2.71	
6,303.00	49.30	118.00	6,240.65	51.53	-199.57	-198.25	17.25	17.23	-1.06	
6,351.00	56.60	116.60	6,269.55	33.99	-165.55	-164.66	15.38	15.21	-2.92	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Fiducial 6-62-34-6457BH2
Project:	Weld Co., CO	TVD Reference:	WELL @ 4699.00usft (Original Well Elev)
Site:	Sec.34-T6N-R62W	MD Reference:	WELL @ 4699.00usft (Original Well Elev)
Well:	Fiducial 6-62-34-6457BH2	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)	
6,398.00	65.40	116.20	6,292.31	15.74	-128.76	-128.33	18.74	18.72	-0.85	
6,445.00	72.30	113.60	6,309.26	-2.68	-89.02	-89.06	15.56	14.68	-5.53	
6,492.00	78.60	109.70	6,321.07	-19.43	-46.76	-47.22	15.62	13.40	-8.30	
6,540.00	82.30	107.30	6,329.03	-34.45	-1.88	-2.73	9.15	7.71	-5.00	
6,566.00	86.60	105.90	6,331.55	-41.84	22.92	21.88	17.38	16.54	-5.38	
6,630.00	93.50	94.60	6,331.49	-53.20	85.75	84.42	20.68	10.78	-17.66	
6,726.00	92.40	99.50	6,326.55	-64.96	180.87	179.22	5.22	-1.15	5.10	
6,820.00	91.20	98.70	6,323.60	-79.82	273.64	271.59	1.53	-1.28	-0.85	
6,915.00	90.00	98.20	6,322.60	-93.78	367.60	365.18	1.37	-1.26	-0.53	
7,010.00	89.90	95.80	6,322.68	-105.36	461.89	459.15	2.53	-0.11	-2.53	
7,104.00	89.20	93.60	6,323.42	-113.06	555.56	552.61	2.46	-0.74	-2.34	
7,199.00	89.80	92.40	6,324.25	-118.03	650.42	647.32	1.41	0.63	-1.26	
7,294.00	89.90	91.10	6,324.50	-120.93	745.38	742.18	1.37	0.11	-1.37	
7,389.00	90.10	88.80	6,324.50	-120.85	840.37	837.14	2.43	0.21	-2.42	
7,484.00	90.90	86.10	6,323.67	-116.62	935.26	932.11	2.96	0.84	-2.84	
7,579.00	91.30	85.60	6,321.85	-109.75	1,030.00	1,026.98	0.67	0.42	-0.53	
7,674.00	91.20	84.70	6,319.77	-101.72	1,124.63	1,121.79	0.95	-0.11	-0.95	
7,769.00	90.90	83.40	6,318.03	-91.87	1,219.10	1,216.47	1.40	-0.32	-1.37	
7,864.00	90.30	83.20	6,317.04	-80.79	1,313.45	1,311.06	0.67	-0.63	-0.21	
7,959.00	90.60	85.00	6,316.29	-71.03	1,407.94	1,405.77	1.92	0.32	1.89	
8,054.00	90.20	83.70	6,315.63	-61.67	1,502.47	1,500.50	1.43	-0.42	-1.37	
8,149.00	90.50	85.00	6,315.05	-52.32	1,597.01	1,595.24	1.40	0.32	1.37	
8,243.00	90.60	86.20	6,314.15	-45.11	1,690.72	1,689.10	1.28	0.11	1.28	
8,339.00	90.20	84.20	6,313.48	-37.08	1,786.38	1,784.93	2.12	-0.42	-2.08	
8,434.00	90.50	86.80	6,312.90	-29.63	1,881.08	1,879.78	2.75	0.32	2.74	
8,528.00	90.30	86.80	6,312.24	-24.38	1,974.93	1,973.73	0.21	-0.21	0.00	
8,623.00	92.20	87.40	6,310.17	-19.57	2,069.78	2,068.67	2.10	2.00	0.63	
8,718.00	92.50	89.60	6,306.27	-17.09	2,164.66	2,163.59	2.34	0.32	2.32	
8,813.00	91.30	90.60	6,303.12	-17.25	2,259.61	2,258.50	1.64	-1.26	1.05	
8,907.00	89.20	90.40	6,302.71	-18.07	2,353.60	2,352.44	2.24	-2.23	-0.21	
9,003.00	89.40	90.70	6,303.88	-19.00	2,449.58	2,448.38	0.38	0.21	0.31	
9,097.00	89.00	88.50	6,305.20	-18.34	2,543.57	2,542.35	2.38	-0.43	-2.34	
9,192.00	89.30	88.30	6,306.61	-15.69	2,638.52	2,637.33	0.38	0.32	-0.21	
9,288.00	89.90	88.00	6,307.28	-12.59	2,734.47	2,733.33	0.70	0.62	-0.31	
9,383.00	90.40	88.30	6,307.03	-9.52	2,829.42	2,828.33	0.61	0.53	0.32	
9,477.00	91.20	88.50	6,305.71	-6.90	2,923.37	2,922.31	0.88	0.85	0.21	
9,572.00	90.90	88.30	6,303.97	-4.25	3,018.32	3,017.30	0.38	-0.32	-0.21	
9,667.00	91.50	88.10	6,301.98	-1.26	3,113.25	3,112.27	0.67	0.63	-0.21	
9,761.00	91.40	88.40	6,299.61	1.61	3,207.17	3,206.24	0.34	-0.11	0.32	
9,856.00	90.50	89.10	6,298.03	3.68	3,302.14	3,301.23	1.20	-0.95	0.74	
9,951.00	90.10	88.30	6,297.53	5.84	3,397.11	3,396.23	0.94	-0.42	-0.84	
10,046.00	90.20	88.50	6,297.28	8.49	3,492.07	3,491.22	0.24	0.11	0.21	
10,141.00	88.90	86.20	6,298.03	12.88	3,586.96	3,586.19	2.78	-1.37	-2.42	
10,235.00	90.20	86.00	6,298.77	19.27	3,680.74	3,680.10	1.40	1.38	-0.21	
10,326.00	89.70	84.00	6,298.85	27.20	3,771.39	3,770.91	2.27	-0.55	-2.20	
10,418.00	89.50	84.00	6,299.49	36.82	3,862.88	3,862.62	0.22	-0.22	0.00	
10,509.00	89.60	84.70	6,300.21	45.78	3,953.43	3,953.36	0.78	0.11	0.77	
10,601.00	91.50	85.40	6,299.32	53.72	4,045.08	4,045.18	2.20	2.07	0.76	
10,692.00	91.50	85.60	6,296.94	60.85	4,135.77	4,136.02	0.22	0.00	0.22	
10,784.00	91.90	85.20	6,294.21	68.23	4,227.43	4,227.83	0.61	0.43	-0.43	
10,875.00	92.70	86.50	6,290.56	74.81	4,318.12	4,318.65	1.68	0.88	1.43	
10,967.00	91.70	87.50	6,287.03	79.62	4,409.92	4,410.55	1.54	-1.09	1.09	
11,060.00	91.00	87.90	6,284.84	83.35	4,502.82	4,503.51	0.87	-0.75	0.43	
11,149.00	89.30	88.80	6,284.60	85.91	4,591.78	4,592.50	2.16	-1.91	1.01	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Fiducial 6-62-34-6457BH2
Project:	Weld Co., CO	TVD Reference:	WELL @ 4699.00usft (Original Well Elev)
Site:	Sec.34-T6N-R62W	MD Reference:	WELL @ 4699.00usft (Original Well Elev)
Well:	Fiducial 6-62-34-6457BH2	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)
11,241.00	90.30	88.40	6,284.92	88.16	4,683.75	4,684.50	1.17	1.09	-0.43
11,332.00	90.20	88.00	6,284.53	91.02	4,774.70	4,775.50	0.45	-0.11	-0.44
11,421.00	89.90	88.30	6,284.45	93.89	4,863.66	4,864.50	0.48	-0.34	0.34
11,515.00	90.20	88.10	6,284.37	96.84	4,957.61	4,958.49	0.38	0.32	-0.21
11,606.00	91.90	88.10	6,282.70	99.86	5,048.54	5,049.47	1.87	1.87	0.00
11,698.00	91.60	88.10	6,279.89	102.91	5,140.45	5,141.43	0.33	-0.33	0.00
11,789.00	89.50	88.20	6,279.02	105.85	5,231.39	5,232.41	2.31	-2.31	0.11
11,880.00	89.60	87.90	6,279.73	108.94	5,322.34	5,323.41	0.35	0.11	-0.33
11,971.00	88.70	86.90	6,281.08	113.07	5,413.23	5,414.37	1.48	-0.99	-1.10
12,062.00	88.30	85.90	6,283.46	118.78	5,504.02	5,505.28	1.18	-0.44	-1.10
12,154.00	90.00	84.10	6,284.83	126.80	5,595.65	5,597.08	2.69	1.85	-1.96
12,246.00	90.40	83.30	6,284.51	136.90	5,687.09	5,688.74	0.97	0.43	-0.87
12,338.00	91.30	84.30	6,283.14	146.83	5,778.54	5,780.41	1.46	0.98	1.09
12,429.00	90.30	84.40	6,281.87	155.79	5,869.09	5,871.15	1.10	-1.10	0.11
12,522.00	92.10	86.30	6,279.92	163.33	5,961.76	5,963.97	2.81	1.94	2.04
12,614.00	91.90	87.40	6,276.71	168.38	6,053.56	6,055.87	1.21	-0.22	1.20
12,706.00	88.40	86.90	6,276.47	172.95	6,145.43	6,147.83	3.84	-3.80	-0.54
12,798.00	88.00	86.80	6,279.36	178.00	6,237.25	6,239.74	0.45	-0.43	-0.11
12,889.00	89.60	86.90	6,281.27	183.00	6,328.09	6,330.67	1.76	1.76	0.11
12,981.00	89.80	87.00	6,281.75	187.90	6,419.96	6,422.64	0.24	0.22	0.11
13,072.00	90.70	85.40	6,281.35	193.93	6,510.75	6,513.55	2.02	0.99	-1.76
13,164.00	91.60	85.40	6,279.51	201.31	6,602.44	6,605.39	0.98	0.98	0.00
13,255.00	90.70	85.40	6,277.68	208.60	6,693.12	6,696.23	0.99	-0.99	0.00
13,347.00	91.60	85.40	6,275.83	215.98	6,784.81	6,788.07	0.98	0.98	0.00
13,438.00	91.60	86.60	6,273.29	222.32	6,875.55	6,878.94	1.32	0.00	1.32
13,530.00	89.70	86.20	6,272.25	228.10	6,967.36	6,970.86	2.11	-2.07	-0.43
13,621.00	88.80	85.40	6,273.44	234.77	7,058.10	7,061.74	1.32	-0.99	-0.88
13,713.00	91.30	84.70	6,273.36	242.70	7,149.75	7,153.56	2.82	2.72	-0.76
13,804.00	91.90	84.70	6,270.82	251.11	7,240.33	7,244.31	0.66	0.66	0.00
13,896.00	92.30	86.50	6,267.45	258.16	7,331.99	7,336.12	2.00	0.43	1.96
13,987.00	91.40	87.60	6,264.51	262.84	7,422.82	7,427.04	1.56	-0.99	1.21
14,078.00	91.70	89.00	6,262.05	265.54	7,513.74	7,518.00	1.57	0.33	1.54
14,170.00	91.00	90.20	6,259.88	266.18	7,605.71	7,609.96	1.51	-0.76	1.30
14,262.00	90.00	90.60	6,259.08	265.54	7,697.71	7,701.91	1.17	-1.09	0.43
14,353.00	89.70	91.10	6,259.32	264.19	7,788.70	7,792.84	0.64	-0.33	0.55
14,444.00	88.50	88.60	6,260.75	264.43	7,879.68	7,883.80	3.05	-1.32	-2.75
14,536.00	88.60	88.60	6,263.07	266.67	7,971.62	7,975.77	0.11	0.11	0.00
14,627.00	88.30	88.30	6,265.54	269.13	8,062.55	8,066.73	0.47	-0.33	-0.33
14,719.00	88.80	87.00	6,267.86	272.90	8,154.44	8,158.69	1.51	0.54	-1.41
14,810.00	90.40	86.00	6,268.50	278.46	8,245.27	8,249.62	2.07	1.76	-1.10
14,901.00	91.30	86.00	6,267.15	284.81	8,336.04	8,340.52	0.99	0.99	0.00
14,993.00	91.30	84.90	6,265.06	292.10	8,427.72	8,432.36	1.20	0.00	-1.20
15,083.00	91.80	84.90	6,262.63	300.10	8,517.33	8,522.14	0.56	0.56	0.00
15,175.00	90.60	86.10	6,260.70	307.32	8,609.02	8,613.98	1.84	-1.30	1.30
15,267.00	90.70	86.00	6,259.66	313.65	8,700.80	8,705.88	0.15	0.11	-0.11
15,359.00	89.80	85.40	6,259.26	320.55	8,792.54	8,797.76	1.18	-0.98	-0.65
15,454.00	91.40	85.60	6,258.26	328.00	8,887.24	8,892.62	1.70	1.68	0.21
15,549.00	92.10	86.30	6,255.36	334.71	8,981.95	8,987.47	1.04	0.74	0.74
15,644.00	90.70	85.60	6,253.04	341.42	9,076.69	9,082.34	1.65	-1.47	-0.74
15,738.00	91.20	85.50	6,251.48	348.71	9,170.39	9,176.19	0.54	0.53	-0.11
15,832.00	89.40	85.50	6,250.99	356.09	9,264.09	9,270.05	1.91	-1.91	0.00
15,927.00	89.80	85.90	6,251.65	363.21	9,358.82	9,364.93	0.60	0.42	0.42
16,021.00	90.80	85.70	6,251.16	370.09	9,452.57	9,458.81	1.08	1.06	-0.21
16,117.00	91.40	85.80	6,249.32	377.21	9,548.29	9,554.68	0.63	0.62	0.10

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Fiducial 6-62-34-6457BH2
Project:	Weld Co., CO	TVD Reference:	WELL @ 4699.00usft (Original Well Elev)
Site:	Sec.34-T6N-R62W	MD Reference:	WELL @ 4699.00usft (Original Well Elev)
Well:	Fiducial 6-62-34-6457BH2	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)
Last Archer Survey									
16,212.00	92.00	85.70	6,246.50	384.24	9,642.98	9,649.52	0.64	0.63	-0.11
PTB									
16,273.00	92.00	85.70	6,244.37	388.81	9,703.77	9,710.40	0.00	0.00	0.00

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
820.00	820.00	0.00	0.00	First Archer Survey	
16,212.00	6,246.50	384.24	9,642.98	Last Archer Survey	
16,273.00	6,244.37	388.81	9,703.77	PTB	

Checked By: _____ Approved By: _____ Date: _____