



Bill Barrett Corp.  
Project: Weld Co., CO  
Site: Sec.9-T6N-R66W  
Well: Circle B 6-66-9-0461BH  
Wellbore: Wellbore #1  
Design: Design #2  
Lat: 40° 30' 33.408 N  
Long: 104° 47' 4.596 W  
Pad GL: 4814.00  
KB: WELL @ 4837.00usft (Original Well Elev)

# Archer

### SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	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 1.50
1305.27	6.08	4.94	1304.51	21.40	1.85	1.50	4.94	-21.38	
2697.43	6.08	4.94	2688.84	168.28	14.56	0.00	0.00	-168.15	
3102.70	0.00	0.00	3093.35	189.68	16.41	1.50	180.00	-189.54	
6652.90	0.00	0.00	6643.55	189.68	16.41	0.00	0.00	-189.54	
7406.85	90.47	179.52	7121.00	-291.72	20.41	12.00	179.52	291.88	
11640.09	90.47	179.52	7086.00	-4524.66	55.62	0.00	0.00	4524.97	

### WELL DETAILS: Circle B 6-66-9-0461BH

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude	Slot
0.00	0.00	1429173.648	3198920.190	40° 30' 33.408 N	104° 47' 4.596 W	

### WELLBORE TARGET DETAILS (LAT/LONG)

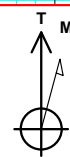
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
Circle B 6-66-9-0461BH tgt	7086.00	-4524.66	55.62	40° 29' 48.696 N	104° 47' 3.876 W	

### CASING DETAILS

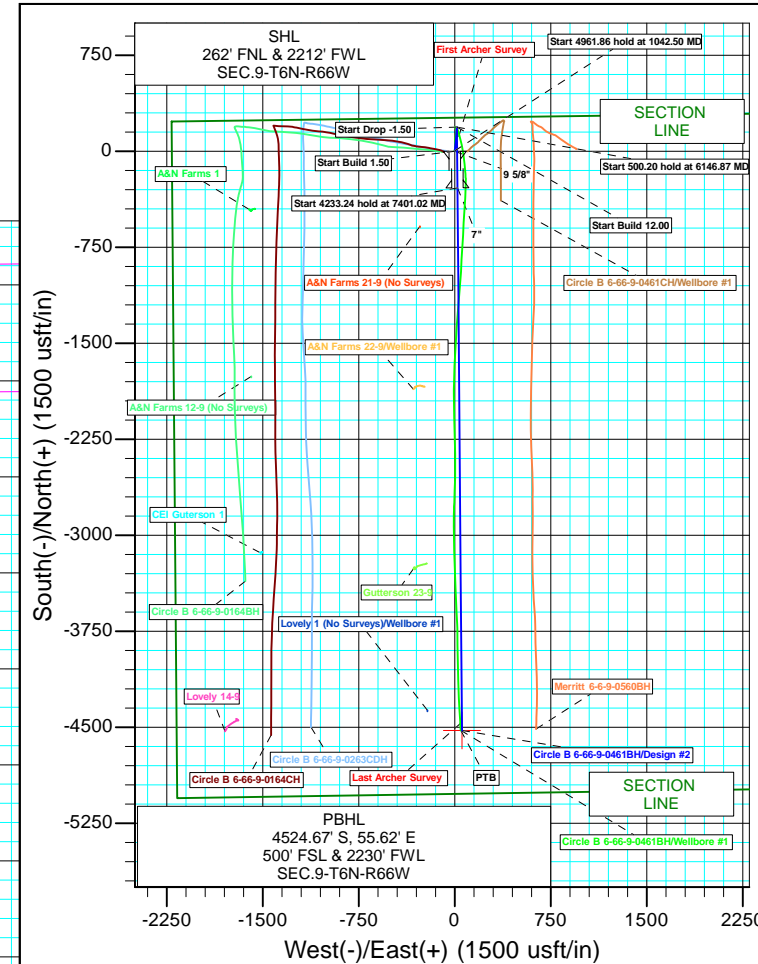
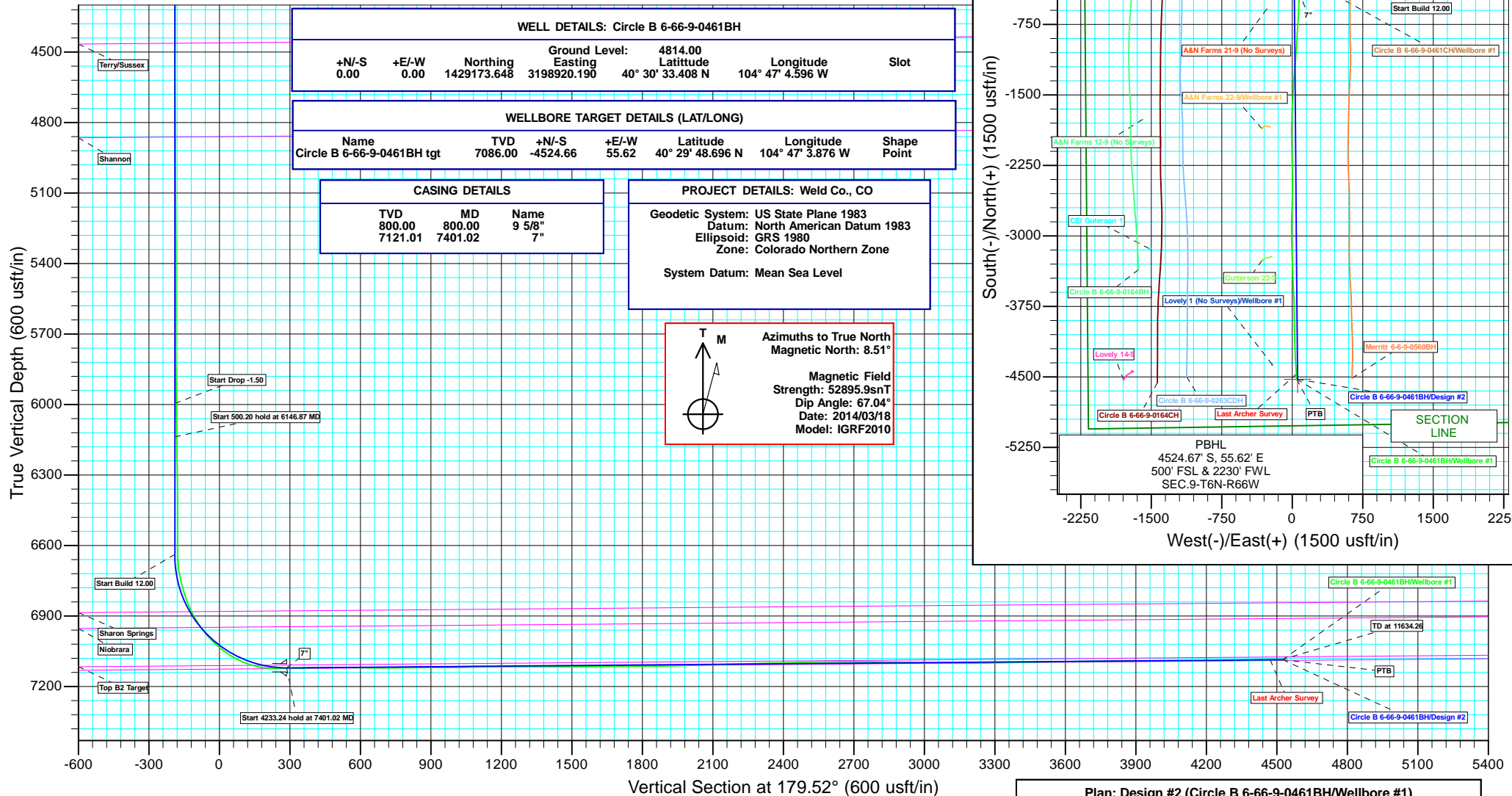
TVD	MD	Name
800.00	800.00	9 5/8"
7121.01	7401.02	7"

### 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



Azimuths to True North  
Magnetic North: 8.51°  
Magnetic Field  
Strength: 52895.9snT  
Dip Angle: 67.04°  
Date: 2014/03/18  
Model: IGRF2010



Plan: Design #2 (Circle B 6-66-9-0461BH/Wellbore #1)

Created By: Ricky Osburn

Date: 7:55, March 31 2014



**Bill Barrett Corporation**

## **Bill Barrett Corp.**

**Weld Co., CO**

**Sec.9-T6N-R66W**

**Circle B 6-66-9-0461BH**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**31 March, 2014**

# **Archer**

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Circle B 6-66-9-0461BH
<b>Project:</b>	Weld Co., CO	<b>TVD Reference:</b>	WELL @ 4837.00usft (Original Well Elev)
<b>Site:</b>	Sec.9-T6N-R66W	<b>MD Reference:</b>	WELL @ 4837.00usft (Original Well Elev)
<b>Well:</b>	Circle B 6-66-9-0461BH	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDMDBBW

<b>Project</b>	Weld Co., CO		
<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		

Site		Sec.9-T6N-R66W			
Site Position:		Northing:	1,429,174.468 usft	Latitude:	40° 30' 33.408 N
From:	Lat/Long	Easting:	3,199,020.288 usft	Longitude:	104° 47' 3.300 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well		Circle B 6-66-9-0461BH				
Well Position	+N/-S	0.00 usft	Northing:	1,429,173.648 usft	Latitude:	40° 30' 33.408 N
	+E/-W	0.00 usft	Easting:	3,198,920.190 usft	Longitude:	104° 47' 4.596 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,814.00 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2014/03/18	8.51	67.04	52,896

<b>Design</b>	Wellbore #1				
<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) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	179.52	

<b>Survey Program</b>	<b>Date</b>	2014/03/31			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
737.00	11,648.00	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>First Archer Survey</b>										
737.00	0.59	297.76	736.99	1.77	-3.36	-1.80	0.08	0.08	0.00	
832.00	0.40	283.60	831.98	2.07	-4.11	-2.11	0.24	-0.20	-14.91	
862.00	0.20	283.60	861.98	2.11	-4.27	-2.15	0.67	-0.67	0.00	
954.00	2.50	21.80	953.95	4.01	-3.68	-4.04	2.76	2.50	106.74	
1,046.00	4.60	18.70	1,045.77	9.37	-1.75	-9.38	2.29	2.28	-3.37	
1,138.00	4.40	17.70	1,137.49	16.23	0.51	-16.22	0.23	-0.22	-1.09	
1,230.00	5.80	7.50	1,229.12	24.20	2.19	-24.18	1.81	1.52	-11.09	
1,322.00	6.20	11.20	1,320.62	33.68	3.76	-33.65	0.60	0.43	4.02	
1,414.00	5.80	357.20	1,412.12	43.20	4.50	-43.16	1.64	-0.43	-15.22	
1,506.00	5.70	352.40	1,503.66	52.37	3.67	-52.34	0.53	-0.11	-5.22	
1,599.00	6.50	358.80	1,596.13	62.21	2.94	-62.18	1.13	0.86	6.88	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Circle B 6-66-9-0461BH
<b>Project:</b>	Weld Co., CO	<b>TVD Reference:</b>	WELL @ 4837.00usft (Original Well Elev)
<b>Site:</b>	Sec.9-T6N-R66W	<b>MD Reference:</b>	WELL @ 4837.00usft (Original Well Elev)
<b>Well:</b>	Circle B 6-66-9-0461BH	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)	
1,693.00	6.40	358.20	1,689.54	72.76	2.67	-72.74	0.13	-0.11	-0.64	
1,785.00	6.20	358.80	1,780.98	82.86	2.40	-82.83	0.23	-0.22	0.65	
1,877.00	6.10	358.70	1,872.45	92.71	2.19	-92.69	0.11	-0.11	-0.11	
1,969.00	5.90	10.10	1,963.95	102.25	2.91	-102.22	1.31	-0.22	12.39	
2,062.00	5.20	5.80	2,056.52	111.15	4.17	-111.11	0.87	-0.75	-4.62	
2,154.00	4.40	7.10	2,148.19	118.80	5.03	-118.76	0.88	-0.87	1.41	
2,246.00	4.00	4.50	2,239.94	125.50	5.72	-125.45	0.48	-0.43	-2.83	
2,338.00	4.70	16.30	2,331.68	132.32	7.03	-132.26	1.23	0.76	12.83	
2,433.00	4.30	18.70	2,426.39	139.43	9.26	-139.35	0.47	-0.42	2.53	
2,529.00	4.00	4.60	2,522.14	146.18	10.68	-146.08	1.10	-0.31	-14.69	
2,624.00	4.40	2.90	2,616.88	153.12	11.13	-153.02	0.44	0.42	-1.79	
2,719.00	4.00	0.20	2,711.63	160.07	11.33	-159.97	0.47	-0.42	-2.84	
2,814.00	3.60	353.90	2,806.42	166.35	11.02	-166.25	0.61	-0.42	-6.63	
2,908.00	4.10	351.90	2,900.21	172.61	10.24	-172.52	0.55	0.53	-2.13	
3,004.00	3.50	4.40	2,996.00	178.93	9.98	-178.84	1.06	-0.62	13.02	
3,099.00	2.30	19.90	3,090.88	183.61	10.85	-183.52	1.50	-1.26	16.32	
3,194.00	1.80	10.50	3,185.81	186.87	11.77	-186.77	0.63	-0.53	-9.89	
3,289.00	0.40	28.80	3,280.79	188.63	12.20	-188.52	1.50	-1.47	19.26	
3,384.00	0.20	240.10	3,375.79	188.84	12.22	-188.73	0.61	-0.21	-156.53	
3,479.00	1.10	217.30	3,470.79	188.03	11.52	-187.93	0.97	0.95	-24.00	
3,574.00	1.30	249.90	3,565.77	186.94	9.96	-186.85	0.74	0.21	34.32	
3,668.00	1.40	224.30	3,659.74	185.75	8.15	-185.67	0.64	0.11	-27.23	
3,764.00	0.40	269.40	3,755.73	184.90	7.00	-184.84	1.20	-1.04	46.98	
3,859.00	0.50	254.30	3,850.73	184.79	6.27	-184.73	0.16	0.11	-15.89	
3,954.00	0.70	287.80	3,945.72	184.85	5.32	-184.80	0.42	0.21	35.26	
4,049.00	0.90	355.60	4,040.71	185.78	4.71	-185.73	0.96	0.21	71.37	
4,145.00	1.00	341.90	4,136.70	187.32	4.39	-187.28	0.26	0.10	-14.27	
4,239.00	0.70	324.70	4,230.69	188.57	3.80	-188.53	0.42	-0.32	-18.30	
4,334.00	0.30	0.30	4,325.69	189.29	3.47	-189.26	0.51	-0.42	37.47	
4,429.00	0.10	297.70	4,420.69	189.58	3.40	-189.55	0.28	-0.21	-65.89	
4,525.00	0.40	60.30	4,516.69	189.79	3.61	-189.75	0.48	0.31	127.71	
4,620.00	0.10	165.70	4,611.69	189.87	3.92	-189.83	0.46	-0.32	110.95	
4,715.00	0.60	236.90	4,706.68	189.52	3.53	-189.48	0.61	0.53	74.95	
4,810.00	1.10	249.90	4,801.67	188.93	2.25	-188.91	0.56	0.53	13.68	
4,906.00	0.40	173.50	4,897.67	188.28	1.42	-188.26	1.12	-0.73	-79.58	
5,001.00	0.60	175.20	4,992.66	187.46	1.50	-187.44	0.21	0.21	1.79	
5,096.00	0.30	150.10	5,087.66	186.75	1.67	-186.73	0.37	-0.32	-26.42	
5,191.00	0.10	124.80	5,182.66	186.48	1.86	-186.46	0.23	-0.21	-26.63	
5,286.00	0.60	145.40	5,277.66	186.03	2.21	-186.00	0.53	0.53	21.68	
5,381.00	0.40	140.50	5,372.65	185.36	2.71	-185.33	0.22	-0.21	-5.16	
5,477.00	0.30	138.90	5,468.65	184.91	3.08	-184.88	0.10	-0.10	-1.67	
5,572.00	0.20	345.20	5,563.65	184.89	3.21	-184.85	0.51	-0.11	-161.79	
5,667.00	0.40	9.70	5,658.65	185.37	3.22	-185.34	0.25	0.21	25.79	
5,762.00	0.30	117.90	5,753.65	185.58	3.49	-185.55	0.60	-0.11	113.89	
5,857.00	0.70	135.20	5,848.64	185.06	4.12	-185.02	0.45	0.42	18.21	
5,952.00	1.00	129.60	5,943.63	184.12	5.17	-184.07	0.33	0.32	-5.89	
6,047.00	1.20	136.70	6,038.62	182.86	6.49	-182.80	0.25	0.21	7.47	
6,142.00	1.10	132.40	6,133.60	181.53	7.85	-181.45	0.14	-0.11	-4.53	
6,237.00	1.70	123.30	6,228.57	180.14	9.70	-180.05	0.67	0.63	-9.58	
6,332.00	1.70	113.30	6,323.53	178.81	12.17	-178.70	0.31	0.00	-10.53	
6,428.00	0.70	90.90	6,419.51	178.23	14.06	-178.11	1.13	-1.04	-23.33	
6,523.00	0.80	86.60	6,514.50	178.26	15.31	-178.13	0.12	0.11	-4.53	
6,587.00	0.90	86.60	6,578.49	178.32	16.25	-178.18	0.16	0.16	0.00	
6,618.00	0.80	114.60	6,609.49	178.24	16.69	-178.10	1.36	-0.32	90.32	

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<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)	
6,650.00	1.80	132.70	6,641.48	177.81	17.27	-177.66	3.34	3.12	56.56	
6,682.00	5.00	150.80	6,673.42	176.25	18.32	-176.09	10.43	10.00	56.56	
6,713.00	8.40	156.90	6,704.20	172.99	19.86	-172.82	11.19	10.97	19.68	
6,761.00	13.70	161.30	6,751.30	164.37	23.07	-164.17	11.17	11.04	9.17	
6,808.00	17.20	164.40	6,796.59	152.40	26.72	-152.18	7.65	7.45	6.60	
6,856.00	22.40	166.00	6,841.74	136.68	30.84	-136.42	10.89	10.83	3.33	
6,903.00	27.60	164.10	6,884.32	117.51	36.00	-117.20	11.19	11.06	-4.04	
6,951.00	32.90	164.10	6,925.77	94.26	42.62	-93.90	11.04	11.04	0.00	
6,998.00	37.80	165.20	6,964.09	68.04	49.80	-67.62	10.51	10.43	2.34	
7,045.00	44.00	168.40	6,999.61	38.10	56.77	-37.62	13.92	13.19	6.81	
7,093.00	50.20	171.80	7,032.27	3.47	62.76	-2.95	13.92	12.92	7.08	
7,140.00	56.50	173.90	7,060.31	-33.92	67.42	34.48	13.87	13.40	4.47	
7,189.00	63.30	173.10	7,084.87	-76.01	72.23	76.62	13.95	13.88	-1.63	
7,237.00	70.70	173.30	7,103.62	-119.86	77.45	120.50	15.42	15.42	0.42	
7,284.00	78.30	175.30	7,116.17	-164.89	81.93	165.57	16.68	16.17	4.26	
7,341.00	88.40	178.60	7,122.76	-221.35	84.92	222.05	18.63	17.72	5.79	
7,463.00	92.20	183.30	7,122.12	-343.27	82.90	343.95	4.95	3.11	3.85	
7,491.00	92.20	183.20	7,121.05	-371.21	81.32	371.87	0.36	0.00	-0.36	
7,586.00	90.00	184.10	7,119.22	-465.99	75.27	466.60	2.50	-2.32	0.95	
7,681.00	89.50	183.10	7,119.64	-560.80	69.30	561.36	1.18	-0.53	-1.05	
7,776.00	89.10	182.80	7,120.80	-655.67	64.42	656.18	0.53	-0.42	-0.32	
7,871.00	90.90	184.30	7,120.80	-750.48	58.53	750.94	2.47	1.89	1.58	
7,966.00	90.50	183.40	7,119.64	-845.25	52.16	845.66	1.04	-0.42	-0.95	
8,061.00	89.80	182.50	7,119.39	-940.13	47.27	940.49	1.20	-0.74	-0.95	
8,156.00	91.30	185.20	7,118.48	-1,034.90	40.89	1,035.20	3.25	1.58	2.84	
8,252.00	90.60	184.80	7,116.89	-1,130.52	32.52	1,130.75	0.84	-0.73	-0.42	
8,347.00	90.50	184.80	7,115.97	-1,225.18	24.57	1,225.34	0.11	-0.11	0.00	
8,441.00	90.00	184.00	7,115.56	-1,318.90	17.36	1,319.00	1.00	-0.53	-0.85	
8,536.00	89.30	183.50	7,116.14	-1,413.69	11.15	1,413.74	0.91	-0.74	-0.53	
8,631.00	91.00	183.20	7,115.90	-1,508.53	5.60	1,508.52	1.82	1.79	-0.32	
8,726.00	90.40	182.50	7,114.74	-1,603.40	0.88	1,603.35	0.97	-0.63	-0.74	
8,821.00	90.20	182.00	7,114.24	-1,698.33	-2.85	1,698.24	0.57	-0.21	-0.53	
8,917.00	90.10	181.90	7,113.99	-1,794.27	-6.12	1,794.16	0.15	-0.10	-0.10	
9,012.00	91.30	179.90	7,112.83	-1,889.25	-7.61	1,889.12	2.45	1.26	-2.11	
9,107.00	91.50	179.10	7,110.50	-1,984.21	-6.78	1,984.09	0.87	0.21	-0.84	
9,201.00	91.50	178.80	7,108.04	-2,078.17	-5.06	2,078.05	0.32	0.00	-0.32	
9,297.00	91.50	178.30	7,105.53	-2,174.10	-2.63	2,174.00	0.52	0.00	-0.52	
9,392.00	91.80	178.80	7,102.80	-2,269.03	-0.23	2,268.95	0.61	0.32	0.53	
9,487.00	91.50	178.40	7,100.06	-2,363.96	2.09	2,363.90	0.53	-0.32	-0.42	
9,582.00	90.70	181.00	7,098.24	-2,458.94	2.59	2,458.87	2.86	-0.84	2.74	
9,678.00	91.90	181.30	7,096.06	-2,554.89	0.66	2,554.81	1.29	1.25	0.31	
9,773.00	89.80	182.20	7,094.65	-2,649.83	-2.24	2,649.72	2.40	-2.21	0.95	
9,868.00	90.30	181.70	7,094.57	-2,744.77	-5.47	2,744.63	0.74	0.53	-0.53	
9,963.00	88.50	180.30	7,095.56	-2,839.75	-7.13	2,839.59	2.40	-1.89	-1.47	
10,059.00	88.20	180.30	7,098.33	-2,935.71	-7.63	2,935.54	0.31	-0.31	0.00	
10,154.00	89.60	179.10	7,100.15	-3,030.68	-7.14	3,030.52	1.94	1.47	-1.26	
10,249.00	89.20	178.50	7,101.14	-3,125.66	-5.15	3,125.50	0.76	-0.42	-0.63	
10,344.00	90.90	178.00	7,101.06	-3,220.61	-2.25	3,220.48	1.87	1.79	-0.53	
10,439.00	91.20	177.30	7,099.32	-3,315.51	1.65	3,315.41	0.80	0.32	-0.74	
10,534.00	91.00	178.00	7,097.50	-3,410.41	5.54	3,410.34	0.77	-0.21	0.74	
10,629.00	90.90	177.90	7,095.92	-3,505.34	8.94	3,505.29	0.15	-0.11	-0.11	
10,725.00	90.90	177.60	7,094.41	-3,601.25	12.71	3,601.23	0.31	0.00	-0.31	
10,819.00	91.10	177.00	7,092.77	-3,695.13	17.14	3,695.15	0.67	0.21	-0.64	
10,914.00	90.60	179.30	7,091.36	-3,790.07	20.20	3,790.10	2.48	-0.53	2.42	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Circle B 6-66-9-0461BH
<b>Project:</b>	Weld Co., CO	<b>TVD Reference:</b>	WELL @ 4837.00usft (Original Well Elev)
<b>Site:</b>	Sec.9-T6N-R66W	<b>MD Reference:</b>	WELL @ 4837.00usft (Original Well Elev)
<b>Well:</b>	Circle B 6-66-9-0461BH	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)	
11,010.00	90.50	179.50	7,090.44	-3,886.06	21.21	3,886.10	0.23	-0.10	0.21	
11,105.00	89.70	178.80	7,090.28	-3,981.05	22.62	3,981.10	1.12	-0.84	-0.74	
11,200.00	89.80	178.50	7,090.69	-4,076.02	24.86	4,076.08	0.33	0.11	-0.32	
11,295.00	89.70	178.40	7,091.10	-4,170.98	27.43	4,171.07	0.15	-0.11	-0.11	
11,390.00	91.10	177.10	7,090.44	-4,265.90	31.16	4,266.01	2.01	1.47	-1.37	
11,486.00	91.50	177.00	7,088.26	-4,361.75	36.09	4,361.90	0.43	0.42	-0.10	
11,581.00	90.50	176.50	7,086.61	-4,456.58	41.48	4,456.77	1.18	-1.05	-0.53	
<b>Last Archer Survey</b>										
11,596.00	90.40	176.50	7,086.49	-4,471.55	42.40	4,471.75	0.67	-0.67	0.00	
<b>PTB - Circle B 6-66-9-0461BH tgt</b>										
11,648.00	90.40	176.50	7,086.12	-4,523.46	45.57	4,523.68	0.00	0.00	0.00	

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
737.00	736.99	1.77	-3.36	First Archer Survey	
11,596.00	7,086.49	-4,471.55	42.40	Last Archer Survey	
11,648.00	7,086.12	-4,523.46	45.57	PTB	

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