



**Bill Barrett Corporation**

## **Bill Barrett Corp. (II)**

**Garfield Co., CO (NAD83)**

**MDP 26 Pad**

**Fed 14D-34-691**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**02 July, 2012**





**Bill Barrett Corporation**

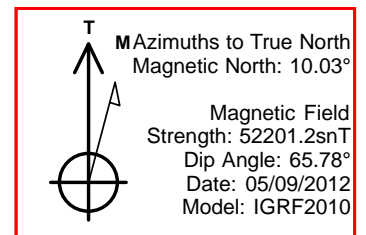
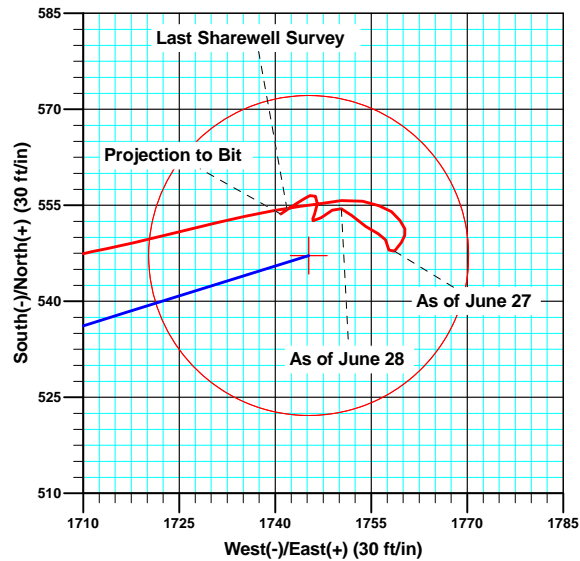
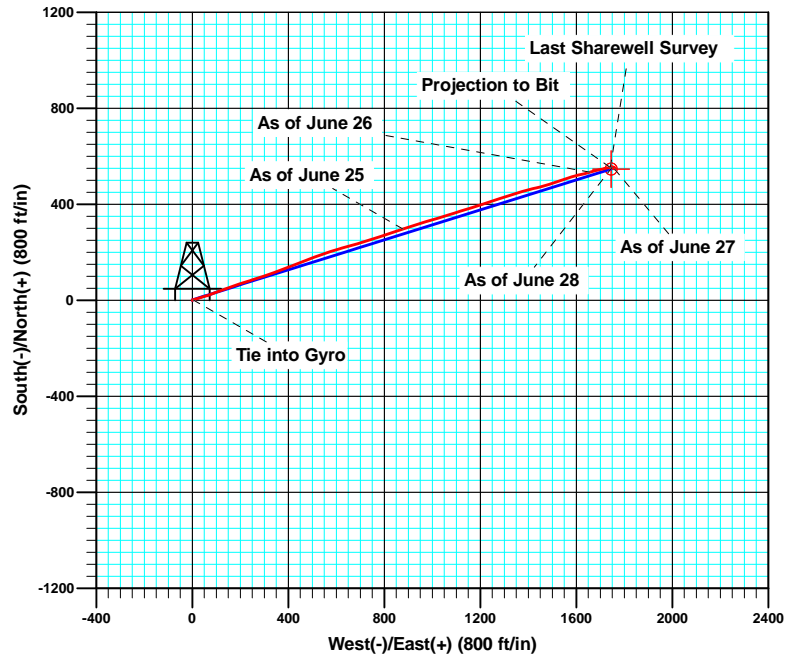
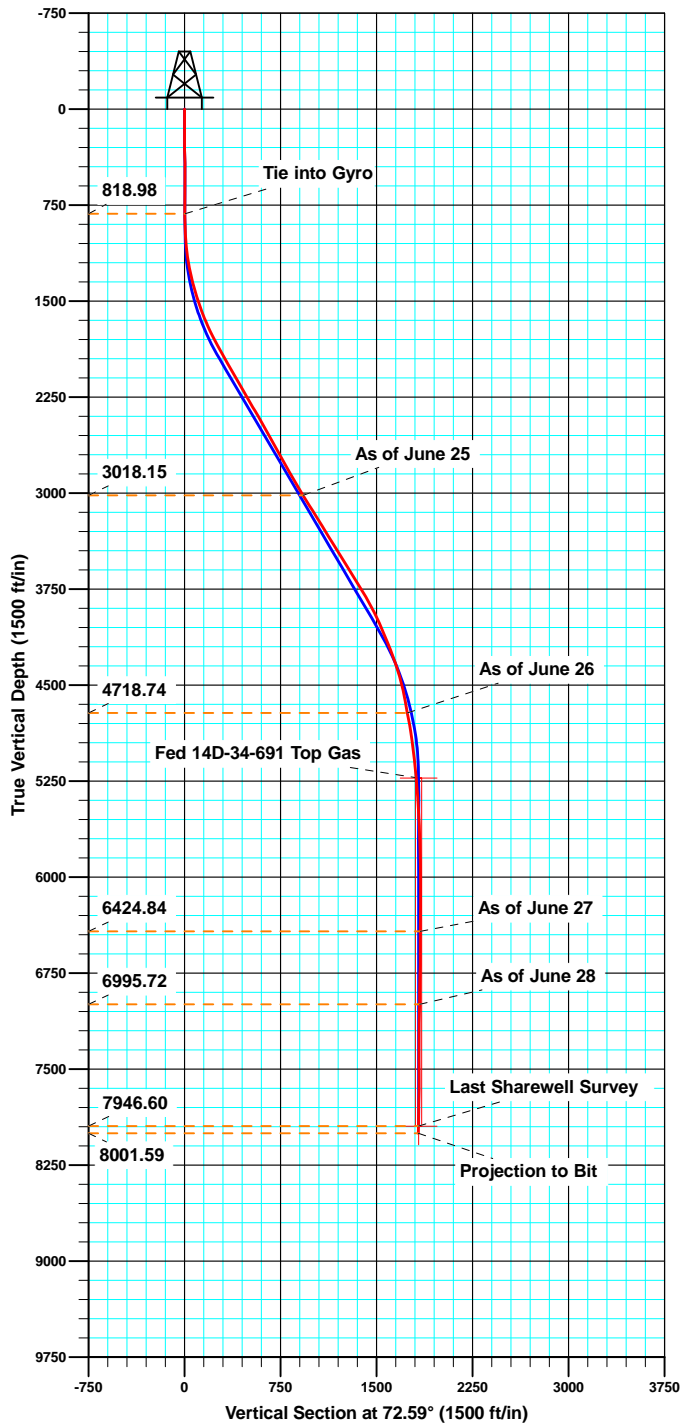
**Fed 14D-34-691**

US State Plane 1983 North American Datum 1983 Colorado Central Zone

+N/-S +E/-W Northing Easting Latitude Longitude  
0.00 0.00 1605978.98 2420484.38 39° 28' 45.14 N 107° 33' 11.68 W

GL @ 6748.00

KB=23' @ 6771.00ft



#### ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
818.98	819.00	0.430	61.10	2.13	2.81	3.32	5.02	Tie into Gyro
3018.15	3239.00	30.600	72.10	296.96	876.85	925.54	927.94	As of June 25
4718.74	5141.00	10.600	73.60	534.01	1657.46	1741.31	1744.11	As of June 26
6424.84	6853.00	1.300	226.20	547.85	1758.64	1842.00	1855.34	As of June 27
6995.72	7424.00	0.900	294.00	554.49	1750.35	1836.07	1867.64	As of June 28
7946.60	8375.00	1.300	235.80	554.34	1741.89	1827.95	1882.40	Last Sharewell Survey
8001.59	8430.00	1.300	235.80	553.64	1740.86	1826.76	1883.65	Projection to Bit



<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Fed 14D-34-691
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>TVD Reference:</b>	KB=23' @ 6771.00ft
<b>Site:</b>	MDP 26 Pad	<b>MD Reference:</b>	KB=23' @ 6771.00ft
<b>Well:</b>	Fed 14D-34-691	<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>	CompassVM

<b>Project</b>	Garfield Co., CO (NAD83)		
<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 Central Zone		

Site	MDP 26 Pad				
Site Position:		Northing:	1,605,969.19 usft	Latitude:	39° 28' 45.04 N
From:	Lat/Long	Easting:	2,420,482.75 usft	Longitude:	107° 33' 11.70 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.29 °

Well	Fed 14D-34-691					
Well Position	+N/-S	0.00 ft	Northing:	1,605,978.97 usft	Latitude:	39° 28' 45.14 N
	+E/-W	0.00 ft	Easting:	2,420,484.39 usft	Longitude:	107° 33' 11.68 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,748.00 ft

<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	05/09/12	10.03	65.78	52,201

<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) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	72.59	

<b>Survey Program</b>	<b>Date</b>	07/02/12			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
23.00	819.00	Gyro (Wellbore #1)	GYRO	GyroCompass Mode	
970.00	8,430.00	Survey #2 (Wellbore #1)	MWD	MWD - Standard	

<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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23.00	0.000	0.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	
123.00	0.520	347.77	123.00	0.44	-0.10	0.04	0.52	0.52	0.00	
223.00	0.710	25.60	222.99	1.45	0.08	0.50	0.44	0.19	37.83	
323.00	0.460	59.63	322.99	2.21	0.69	1.32	0.42	-0.25	34.03	
423.00	0.530	84.48	422.98	2.46	1.50	2.16	0.22	0.07	24.85	
523.00	0.350	130.40	522.98	2.30	2.19	2.78	0.38	-0.18	45.92	
623.00	0.090	147.64	622.98	2.04	2.46	2.96	0.27	-0.26	17.24	
723.00	0.010	209.15	722.98	1.96	2.50	2.97	0.09	-0.08	61.51	
819.00	0.430	61.10	818.98	2.13	2.81	3.32	0.46	0.44	-154.22	

<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Fed 14D-34-691
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>TVD Reference:</b>	KB=23' @ 6771.00ft
<b>Site:</b>	MDP 26 Pad	<b>MD Reference:</b>	KB=23' @ 6771.00ft
<b>Well:</b>	Fed 14D-34-691	<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>	CompassVM

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)
Tie into Gyro									
970.00	1.700	75.00	969.95	2.98	5.47	6.11	0.85	0.84	9.21
1,062.00	5.400	74.50	1,061.76	4.49	10.96	11.81	4.02	4.02	-0.54
1,153.00	8.400	72.40	1,152.09	7.65	21.43	22.74	3.31	3.30	-2.31
1,246.00	11.300	72.80	1,243.71	12.40	36.61	38.64	3.12	3.12	0.43
1,337.00	13.700	75.00	1,332.55	17.82	55.54	58.33	2.69	2.64	2.42
1,432.00	16.000	68.30	1,424.37	25.58	78.58	82.63	3.02	2.42	-7.05
1,527.00	18.800	69.00	1,515.02	35.91	105.04	110.97	2.96	2.95	0.74
1,623.00	21.600	69.20	1,605.10	47.73	136.00	144.05	2.92	2.92	0.21
1,718.00	24.300	72.00	1,692.58	59.98	170.95	181.06	3.06	2.84	2.95
1,813.00	26.200	72.80	1,778.50	72.22	209.57	221.58	2.03	2.00	0.84
1,908.00	29.500	71.70	1,862.48	85.77	251.83	265.95	3.52	3.47	-1.16
2,003.00	29.100	72.10	1,945.33	100.22	296.02	312.44	0.47	-0.42	0.42
2,098.00	30.400	69.60	2,027.81	115.70	340.53	359.55	1.89	1.37	-2.63
2,193.00	29.400	69.40	2,110.16	132.28	384.89	406.84	1.06	-1.05	-0.21
2,288.00	30.600	68.40	2,192.44	149.39	429.20	454.23	1.37	1.26	-1.05
2,383.00	29.400	68.30	2,274.71	166.91	473.35	501.60	1.26	-1.26	-0.11
2,478.00	31.200	71.00	2,356.73	183.55	518.29	549.46	2.38	1.89	2.84
2,574.00	30.100	72.10	2,439.32	199.04	564.70	598.39	1.29	-1.15	1.15
2,669.00	29.500	72.90	2,521.76	213.24	609.73	645.60	0.76	-0.63	0.84
2,764.00	27.300	74.10	2,605.32	226.09	653.04	690.77	2.39	-2.32	1.26
2,859.00	28.600	74.20	2,689.23	238.25	695.88	735.28	1.37	1.37	0.11
2,954.00	29.900	71.50	2,772.12	251.95	740.21	781.69	1.95	1.37	-2.84
3,049.00	30.600	71.80	2,854.19	267.02	785.64	829.54	0.75	0.74	0.32
3,144.00	30.100	71.70	2,936.17	282.05	831.23	877.54	0.53	-0.53	-0.11
3,239.00	30.600	72.10	3,018.15	296.96	876.85	925.54	0.57	0.53	0.42
As of June 25									
3,334.00	33.200	72.60	3,098.79	312.17	924.69	975.73	2.75	2.74	0.53
3,429.00	31.800	73.40	3,178.91	327.10	973.50	1,026.77	1.54	-1.47	0.84
3,525.00	31.200	73.50	3,260.77	341.39	1,021.58	1,076.93	0.63	-0.63	0.10
3,620.00	31.400	71.80	3,341.94	356.11	1,068.68	1,126.28	0.95	0.21	-1.79
3,715.00	32.600	73.00	3,422.51	371.32	1,116.67	1,176.62	1.43	1.26	1.26
3,810.00	31.700	72.40	3,502.94	386.35	1,164.94	1,227.17	1.01	-0.95	-0.63
3,905.00	32.200	73.20	3,583.55	401.22	1,212.96	1,277.44	0.69	0.53	0.84
4,000.00	31.300	70.00	3,664.34	416.97	1,260.38	1,327.40	2.01	-0.95	-3.37
4,095.00	31.300	73.40	3,745.52	432.47	1,307.22	1,376.73	1.86	0.00	3.58
4,190.00	29.600	72.00	3,827.41	446.77	1,353.19	1,424.87	1.94	-1.79	-1.47
4,285.00	28.700	74.90	3,910.38	459.96	1,397.53	1,471.13	1.76	-0.95	3.05
4,380.00	23.700	77.90	3,995.60	469.91	1,438.25	1,512.96	5.44	-5.26	3.16
4,476.00	22.600	72.00	4,083.88	479.66	1,474.66	1,550.62	2.67	-1.15	-6.15
4,571.00	22.800	71.40	4,171.52	491.17	1,509.47	1,587.28	0.32	0.21	-0.63
4,666.00	20.700	72.10	4,259.75	502.20	1,542.90	1,622.48	2.23	-2.21	0.74
4,761.00	18.200	73.10	4,349.32	511.68	1,573.07	1,654.11	2.65	-2.63	1.05

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<b>Well:</b>	Fed 14D-34-691	<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>	CompassVM

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)
4,856.00	15.800	74.70	4,440.17	519.40	1,599.75	1,681.87	2.57	-2.53	1.68
4,951.00	12.800	77.70	4,532.21	525.06	1,622.51	1,705.28	3.25	-3.16	3.16
5,046.00	10.200	75.40	4,625.30	529.42	1,640.94	1,724.17	2.78	-2.74	-2.42
5,141.00	10.600	73.60	4,718.74	534.01	1,657.46	1,741.31	0.54	0.42	-1.89
As of June 26									
5,236.00	9.700	73.70	4,812.25	538.72	1,673.52	1,758.05	0.95	-0.95	0.11
5,331.00	8.100	76.80	4,906.10	542.50	1,687.72	1,772.72	1.76	-1.68	3.26
5,427.00	7.300	77.40	5,001.24	545.37	1,700.26	1,785.55	0.84	-0.83	0.63
5,522.00	6.600	78.50	5,095.54	547.78	1,711.50	1,796.99	0.75	-0.74	1.16
5,617.00	5.500	76.40	5,190.01	549.94	1,721.27	1,806.96	1.18	-1.16	-2.21
5,712.00	4.500	75.70	5,284.65	551.93	1,729.31	1,815.23	1.05	-1.05	-0.74
5,807.00	3.600	78.70	5,379.41	553.43	1,735.85	1,821.92	0.97	-0.95	3.16
5,902.00	3.200	81.10	5,474.24	554.43	1,741.39	1,827.50	0.45	-0.42	2.53
5,997.00	2.700	82.10	5,569.12	555.15	1,746.23	1,832.33	0.53	-0.53	1.05
6,092.00	2.300	81.80	5,664.02	555.73	1,750.33	1,836.42	0.42	-0.42	-0.32
6,187.00	1.800	104.10	5,758.96	555.63	1,753.66	1,839.57	0.98	-0.53	23.47
6,282.00	1.400	106.10	5,853.93	554.95	1,756.23	1,841.81	0.43	-0.42	2.11
6,378.00	1.200	126.00	5,949.90	554.03	1,758.17	1,843.39	0.51	-0.21	20.73
6,473.00	1.200	146.30	6,044.88	552.62	1,759.52	1,844.26	0.45	0.00	21.37
6,568.00	0.600	159.00	6,139.87	551.33	1,760.25	1,844.57	0.66	-0.63	13.37
6,663.00	0.700	199.20	6,234.87	550.32	1,760.24	1,844.26	0.48	0.11	42.32
6,758.00	0.800	208.30	6,329.86	549.18	1,759.74	1,843.44	0.16	0.11	9.58
6,853.00	1.300	226.20	6,424.84	547.85	1,758.64	1,842.00	0.62	0.53	18.84
As of June 27									
6,948.00	1.100	354.70	6,519.83	548.02	1,757.78	1,841.22	2.28	-0.21	135.26
7,043.00	1.000	326.40	6,614.82	549.61	1,757.24	1,841.18	0.55	-0.11	-29.79
7,138.00	0.900	290.90	6,709.80	550.57	1,756.08	1,840.37	0.62	-0.11	-37.37
7,233.00	1.800	305.20	6,804.78	551.70	1,754.17	1,838.88	1.00	0.95	15.05
7,329.00	1.500	310.40	6,900.74	553.38	1,751.98	1,837.29	0.35	-0.31	5.42
7,424.00	0.900	294.00	6,995.72	554.49	1,750.35	1,836.07	0.72	-0.63	-17.26
As of June 28									
7,519.00	1.100	233.20	7,090.70	554.25	1,748.94	1,834.65	1.08	0.21	-64.00
7,612.00	1.500	238.30	7,183.68	553.07	1,747.19	1,832.63	0.45	0.43	5.48
7,709.00	0.300	317.30	7,280.67	552.59	1,745.93	1,831.29	1.52	-1.24	81.44
7,804.00	1.100	24.20	7,375.66	553.61	1,746.14	1,831.79	1.07	0.84	70.42
7,899.00	1.000	5.40	7,470.65	555.26	1,746.59	1,832.72	0.38	-0.11	-19.79
7,995.00	0.600	312.50	7,566.64	556.44	1,746.30	1,832.79	0.83	-0.42	-55.10
8,090.00	0.700	242.70	7,661.63	556.51	1,745.42	1,831.97	0.79	0.11	-73.47
8,185.00	0.700	238.10	7,756.63	555.93	1,744.41	1,830.83	0.06	0.00	-4.84
8,280.00	0.800	238.90	7,851.62	555.29	1,743.35	1,829.63	0.11	0.11	0.84
8,375.00	1.300	235.80	7,946.60	554.34	1,741.89	1,827.95	0.53	0.53	-3.26
Last Sharewell Survey									
8,430.00	1.300	235.80	8,001.59	553.64	1,740.86	1,826.76	0.00	0.00	0.00
Projection to Bit									

<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Fed 14D-34-691
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>TVD Reference:</b>	KB=23' @ 6771.00ft
<b>Site:</b>	MDP 26 Pad	<b>MD Reference:</b>	KB=23' @ 6771.00ft
<b>Well:</b>	Fed 14D-34-691	<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>	CompassVM

**Design Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
819.00	818.98	2.13	2.81	Tie into Gyro
3,239.00	3,018.15	296.96	876.85	As of June 25
5,141.00	4,718.74	534.01	1,657.46	As of June 26
6,853.00	6,424.84	547.85	1,758.64	As of June 27
7,424.00	6,995.72	554.49	1,750.35	As of June 28
8,375.00	7,946.60	554.34	1,741.89	Last Sharewell Survey
8,430.00	8,001.59	553.64	1,740.86	Projection to Bit

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