

Bill Barrett Corp.

Garfield Co., CO (NAD83)

Scott 41C-36-692 Pad (Sec.30-T6S-R91W)

GGU 24A-30-691

Wellbore #1

Design: Wellbore #1

Standard Survey Report

09 April, 2012

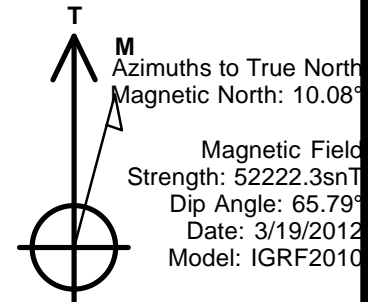
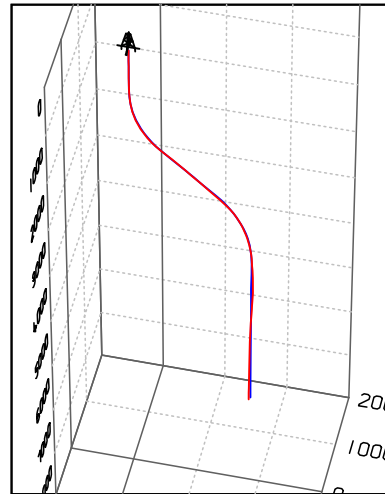
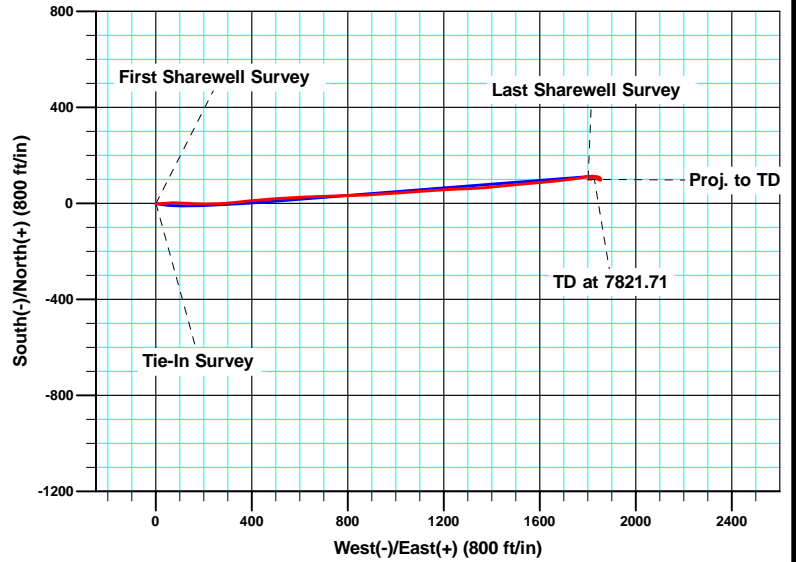
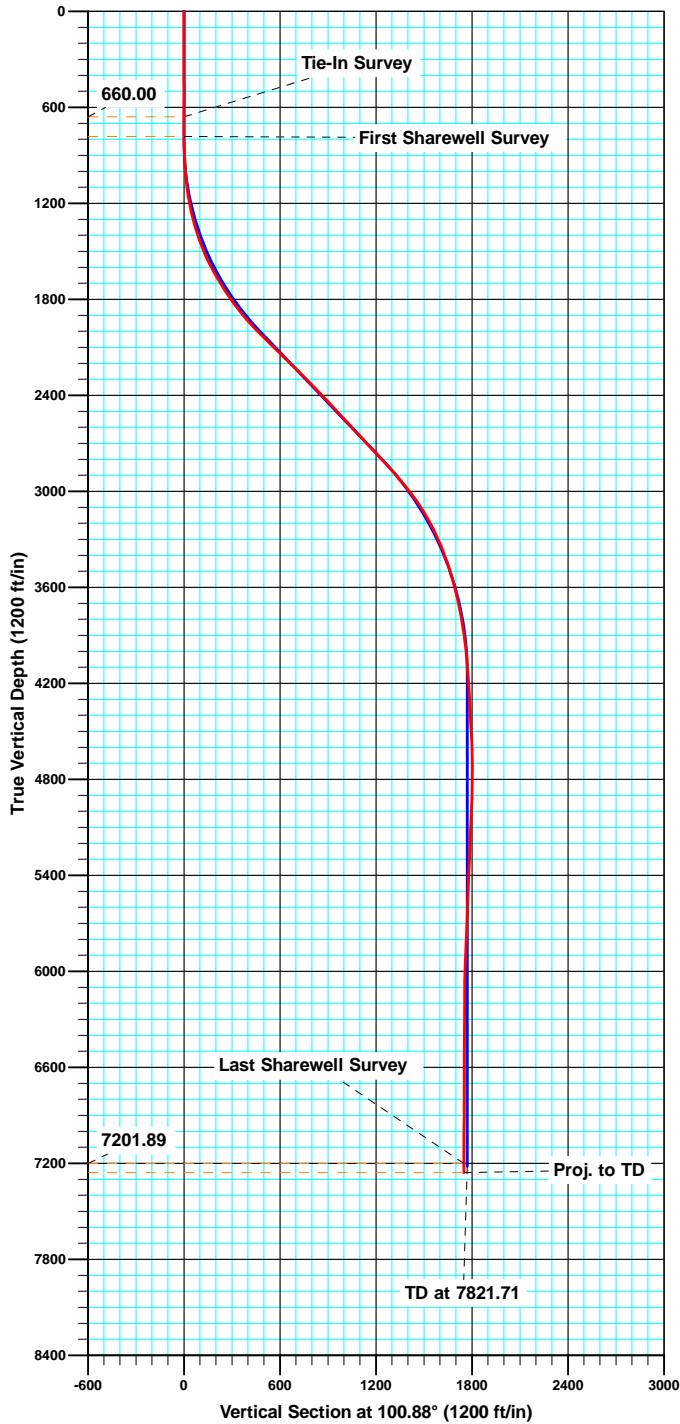


WELL DETAILS: GGU 24A-30-691

US State Plane 1983 , North American Datum 1983 , Colorado Central Zone

Ground Level: 5922.01

+N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1611121.73 2405929.90 39° 29' 32.66 N 107° 36' 18.78 W



ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
660.00	660.00	0.110	223.80	0.03	0.92	0.90	1.66	Tie-In Survey
783.00	783.00	0.500	180.10	-0.59	0.84	0.94	2.32	First Sharewell Survey
7201.89	7814.02	2.500	184.60	102.64	1801.51	1749.71	1940.10	Last Sharewell Survey
7257.84	7870.02	2.500	184.60	100.21	1801.31	1749.98	1942.54	Proj. to TD



Sharewell Survey Report

Company: Bill Barrett Corp.	Local Co-ordinate Reference: Well GGU 24A-30-691
Project: Garfield Co., CO (NAD83)	TVD Reference: WELL @ 5945.01ft
Site: Scott 41C-36-692 Pad (Sec.30-T6S-R91W)	MD Reference: WELL @ 5945.01ft
Well: GGU 24A-30-691	North Reference: True
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: CompassVM

Project Garfield Co., CO (NAD83)		
Map System: US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum: North American Datum 1983		
Map Zone: Colorado Central Zone		

Site Scott 41C-36-692 Pad (Sec.30-T6S-R91W)					
Site Position:	Northing:	1,611,121.74 usft	Latitude:	39° 29' 32.67 N	
From: Lat/Long	Easting:	2,405,929.90 usft	Longitude:	107° 36' 18.78 W	
Position Uncertainty: 0.00 ft	Slot Radius: 1.10 ft		Grid Convergence:	-1.33 °	

Well GGU 24A-30-691					
Well Position	+N/-S	0.00 ft	Northing:	1,611,121.72 usft	Latitude: 39° 29' 32.66 N
	+E/-W	0.00 ft	Easting:	2,405,929.90 usft	Longitude: 107° 36' 18.78 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level: 5,922.01 ft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/19/2012	10.08	65.79	52,222

Design Wellbore #1					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth:	0.00		
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	100.88	

Survey Program		Date 4/3/2012
From (ft)	To (ft)	Survey (Wellbore)
123.00	660.00	Survey #1 (Wellbore #1)
660.00	7,870.02	Survey #2 (Wellbore #1)
		Tool Name
		MWD
		MWD
		Description
		MWD - Standard
		MWD - Standard

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)	
0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123.00	0.110	50.26	123.00	0.08	0.09	0.07	0.09	0.09	0.00	
223.00	0.170	36.59	223.00	0.26	0.25	0.20	0.07	0.06	-13.67	
323.00	0.210	45.23	323.00	0.50	0.47	0.37	0.05	0.04	8.64	
423.00	0.170	163.78	423.00	0.49	0.64	0.54	0.33	-0.04	118.55	
523.00	0.130	168.51	523.00	0.24	0.71	0.65	0.04	-0.04	4.73	
623.00	0.190	107.53	623.00	0.08	0.89	0.86	0.17	0.06	-60.98	
660.00	0.110	223.80	660.00	0.03	0.92	0.90	0.70	-0.22	314.24	
783.00	0.500	180.10	783.00	-0.59	0.84	0.94	0.35	0.32	-35.53	
876.00	1.800	97.10	875.98	-1.18	2.29	2.47	1.94	1.40	-89.25	

Sharewell

Survey Report

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Project:	Garfield Co., CO (NAD83)	TVD Reference:	WELL @ 5945.01ft
Site:	Scott 41C-36-692 Pad (Sec.30-T6S-R91W)	MD Reference:	WELL @ 5945.01ft
Well:	GGU 24A-30-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
967.00	3.800	90.40	966.87	-1.37	6.72	6.86	2.22	2.20	-7.36
1,062.00	6.200	87.90	1,061.50	-1.21	15.00	14.96	2.54	2.53	-2.63
1,157.00	9.400	85.20	1,155.61	-0.37	27.86	27.43	3.39	3.37	-2.84
1,252.00	13.000	84.50	1,248.78	1.30	46.23	45.15	3.79	3.79	-0.74
1,348.00	16.300	89.30	1,341.65	2.50	70.46	68.72	3.66	3.44	5.00
1,443.00	20.000	92.40	1,431.91	1.99	100.03	97.86	4.02	3.89	3.26
1,538.00	23.500	93.60	1,520.14	0.12	135.18	132.72	3.71	3.68	1.26
1,633.00	28.400	92.30	1,605.53	-1.98	176.68	173.88	5.19	5.16	-1.37
1,728.00	31.600	88.70	1,687.80	-2.32	224.15	220.56	3.86	3.37	-3.79
1,823.00	34.500	86.80	1,767.43	-0.26	275.91	271.00	3.24	3.05	-2.00
1,918.00	38.100	84.10	1,843.98	4.26	331.95	325.17	4.15	3.79	-2.84
2,013.00	41.700	84.30	1,916.85	10.41	392.57	383.54	3.79	3.79	0.21
2,108.00	45.300	84.90	1,985.75	16.55	457.66	446.30	3.81	3.79	0.63
2,203.00	46.300	86.70	2,051.98	21.53	525.58	512.06	1.72	1.05	1.89
2,299.00	46.800	86.80	2,118.00	25.48	595.16	579.64	0.53	0.52	0.10
2,394.00	46.800	87.40	2,183.04	28.99	664.32	646.90	0.46	0.00	0.63
2,489.01	45.900	88.70	2,248.61	31.33	733.02	713.91	1.37	-0.95	1.37
2,584.01	45.100	89.30	2,315.20	32.52	800.76	780.22	0.96	-0.84	0.63
2,679.01	44.600	87.30	2,382.55	34.50	867.73	845.60	1.58	-0.53	-2.11
2,774.01	44.600	85.40	2,450.20	38.75	934.29	910.17	1.40	0.00	-2.00
2,869.01	44.000	86.00	2,518.19	43.72	1,000.45	974.20	0.77	-0.63	0.63
2,964.01	43.100	87.20	2,587.04	47.61	1,065.79	1,037.62	1.29	-0.95	1.26
3,059.01	43.900	85.00	2,655.96	52.07	1,131.02	1,100.84	1.80	0.84	-2.32
3,154.01	44.000	86.40	2,724.35	57.01	1,196.76	1,164.47	1.03	0.11	1.47
3,250.01	44.200	88.60	2,793.30	59.92	1,263.50	1,229.46	1.61	0.21	2.29
3,345.01	43.200	86.40	2,861.98	62.77	1,329.06	1,293.30	1.92	-1.05	-2.32
3,440.01	41.200	84.30	2,932.36	67.92	1,392.66	1,354.78	2.58	-2.11	-2.21
3,535.01	38.200	84.70	3,005.44	73.74	1,453.05	1,412.99	3.17	-3.16	0.42
3,630.01	35.600	85.40	3,081.41	78.67	1,509.88	1,467.86	2.77	-2.74	0.74
3,725.01	31.100	84.00	3,160.75	83.46	1,561.87	1,518.01	4.81	-4.74	-1.47
3,820.01	27.500	84.20	3,243.58	88.24	1,608.10	1,562.51	3.79	-3.79	0.21
3,915.01	23.100	84.90	3,329.45	92.12	1,648.51	1,601.45	4.64	-4.63	0.74
4,010.01	21.000	84.10	3,417.49	95.52	1,684.00	1,635.67	2.23	-2.21	-0.84
4,105.01	17.800	83.00	3,507.09	99.04	1,715.36	1,665.79	3.39	-3.37	-1.16
4,201.01	15.200	84.10	3,599.13	102.13	1,742.44	1,691.81	2.73	-2.71	1.15
4,296.01	13.400	79.80	3,691.18	105.36	1,765.67	1,714.01	2.20	-1.89	-4.53
4,391.01	11.300	78.10	3,783.98	109.23	1,785.61	1,732.86	2.24	-2.21	-1.79
4,486.01	8.700	80.90	3,877.53	112.28	1,801.82	1,748.20	2.78	-2.74	2.95
4,581.01	6.800	89.20	3,971.66	113.50	1,814.54	1,760.46	2.32	-2.00	8.74
4,676.01	4.500	91.50	4,066.19	113.48	1,823.89	1,769.65	2.43	-2.42	2.42
4,771.01	3.800	97.20	4,160.94	112.99	1,830.74	1,776.47	0.85	-0.74	6.00
4,866.01	2.900	101.70	4,255.78	112.10	1,836.21	1,782.01	0.99	-0.95	4.74
4,961.01	3.200	108.80	4,350.65	110.76	1,841.08	1,787.04	0.51	0.32	7.47

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)	
5,056.01	3.400	111.90	4,445.49	108.86	1,846.20	1,792.43	0.28	0.21	3.26	
5,152.01	3.300	128.60	4,541.33	106.07	1,851.00	1,797.67	1.02	-0.10	17.40	
5,247.01	2.400	154.10	4,636.21	102.58	1,854.01	1,801.28	1.61	-0.95	26.84	
5,342.01	1.100	191.10	4,731.17	99.89	1,854.70	1,802.47	1.75	-1.37	38.95	
5,437.01	1.300	225.30	4,826.15	98.24	1,853.76	1,801.86	0.77	0.21	36.00	
5,532.01	1.900	261.60	4,921.11	97.25	1,851.43	1,799.76	1.21	0.63	38.21	
5,627.01	2.500	293.40	5,016.05	97.84	1,847.97	1,796.25	1.41	0.63	33.47	
5,722.01	2.200	287.70	5,110.97	99.22	1,844.34	1,792.42	0.40	-0.32	-6.00	
5,817.01	2.500	292.40	5,205.89	100.56	1,840.68	1,788.58	0.38	0.32	4.95	
5,912.01	2.700	299.60	5,300.79	102.46	1,836.82	1,784.43	0.40	0.21	7.58	
6,007.01	2.300	280.30	5,395.70	103.91	1,833.00	1,780.40	0.97	-0.42	-20.32	
6,103.01	2.100	272.70	5,491.63	104.33	1,829.35	1,776.74	0.37	-0.21	-7.92	
6,198.01	2.200	263.10	5,586.57	104.20	1,825.80	1,773.28	0.39	0.11	-10.11	
6,293.01	2.300	259.30	5,681.49	103.62	1,822.12	1,769.77	0.19	0.11	-4.00	
6,388.01	2.800	253.10	5,776.40	102.59	1,818.02	1,765.94	0.60	0.53	-6.53	
6,483.01	2.900	257.30	5,871.28	101.39	1,813.46	1,761.69	0.24	0.11	4.42	
6,578.01	2.300	290.70	5,966.19	101.54	1,809.33	1,757.61	1.68	-0.63	35.16	
6,673.01	1.500	350.90	6,061.14	103.44	1,807.35	1,755.30	2.13	-0.84	63.37	
6,768.01	1.700	6.40	6,156.11	106.07	1,807.31	1,754.77	0.50	0.21	16.32	
6,863.01	0.700	359.70	6,251.09	108.05	1,807.47	1,754.55	1.06	-1.05	-7.05	
6,958.01	1.100	333.20	6,346.07	109.44	1,807.05	1,753.88	0.60	0.42	-27.89	
7,054.01	0.600	331.10	6,442.06	110.70	1,806.39	1,752.99	0.52	-0.52	-2.19	
7,149.01	0.700	332.80	6,537.06	111.66	1,805.89	1,752.31	0.11	0.11	1.79	
7,244.01	0.100	357.70	6,632.05	112.25	1,805.62	1,751.94	0.64	-0.63	26.21	
7,339.01	0.200	333.60	6,727.05	112.49	1,805.54	1,751.82	0.12	0.11	-25.37	
7,434.02	0.400	241.00	6,822.05	112.47	1,805.18	1,751.46	0.48	0.21	-97.47	
7,529.02	1.600	208.70	6,917.04	111.15	1,804.25	1,750.80	1.35	1.26	-34.00	
7,624.02	1.800	204.10	7,012.00	108.62	1,803.00	1,750.06	0.25	0.21	-4.84	
7,719.02	1.600	195.80	7,106.96	105.99	1,802.03	1,749.60	0.33	-0.21	-8.74	
7,814.02	2.500	184.60	7,201.89	102.64	1,801.51	1,749.71	1.03	0.95	-11.79	
7,870.02	2.500	184.60	7,257.84	100.21	1,801.31	1,749.98	0.00	0.00	0.00	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
660.00	660.00	0.03	0.92	Tie-In Survey	
783.00	783.00	-0.59	0.84	First Sharewell Survey	
7,814.02	7,201.89	102.64	1,801.51	Last Sharewell Survey	
7,870.02	7,257.84	100.21	1,801.31	Proj. to TD	

Checked By: _____ Approved By: _____ Date: _____