

Bill Barrett Corp.

Garfield Co., CO (NAD83)

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

GGU 14A-30-691

Wellbore #1

Design: Wellbore #1

Standard Survey Report

29 May, 2012



Project: Garfield Co., CO (NAD83)
Site: Scott 41C-36-692 Pad (Sec.30-T6S-R91W)
Well: GGU 14A-30-691
Wellbore: Wellbore #1
Design: Wellbore #1
Latitude: 39° 29' 32.67 N
Longitude: 107° 36' 19.39 W
Ground Level: 5922.01
WELL @ 5945.01ft



PROJECT DETAILS: Garfield Co., CO (NAD83)

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

REFERENCE INFORMATION

Co-ordinate (NE) Reference: Well GGU 14A-30-691, True North
Vertical (TVD) Reference: WELL @ 5945.01ft
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: WELL @ 5945.01ft
Calculation Method: Minimum Curvature

WELL DETAILS: GGU 14A-30-691

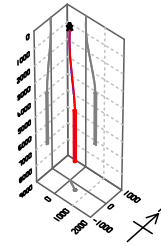
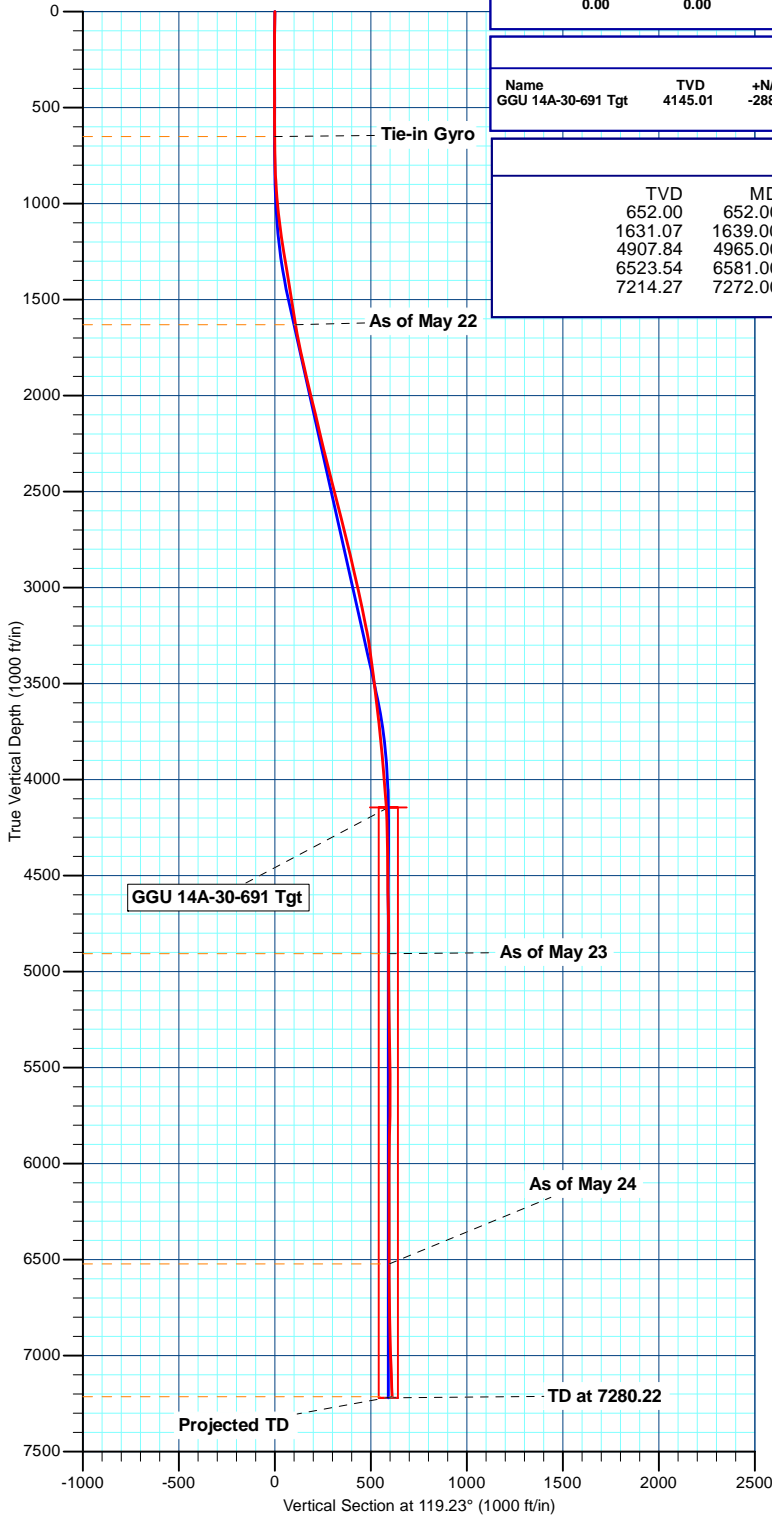
+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude	Slot
0.00	0.00	1611123.56	5922.01	2405882.23	39° 29' 32.67 N	107° 36' 19.39 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

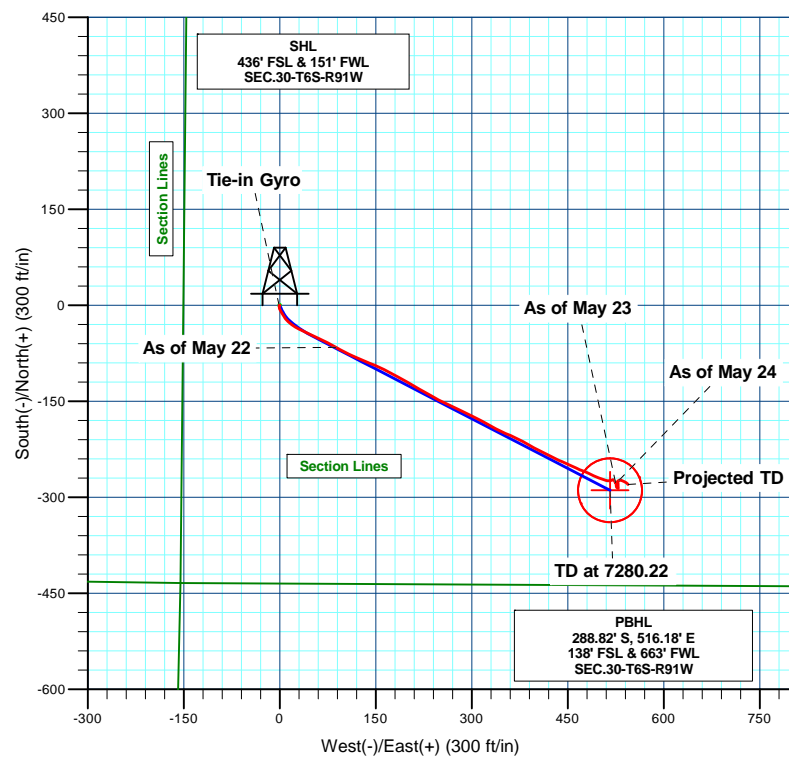
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
GGU 14A-30-691 Tgt	4145.01	-288.82	516.18	1610822.86	2406391.58	39° 29' 29.82 N	107° 36' 12.80 W	Circle (Radius: 50.00)

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
652.00	652.00	0.270	92.79	-0.76	-0.77	-0.30	2.43	Tie-in Gyro
1631.07	1639.00	8.900	119.60	-65.46	87.99	108.75	116.91	As of May 22
4907.84	4965.00	0.200	302.40	-276.80	524.74	593.10	607.38	As of May 23
6523.54	6581.00	0.900	62.60	-273.12	530.29	596.13	636.18	As of May 24
7214.27	7272.00	2.200	132.70	-279.82	544.40	611.72	653.82	Projected TD



Azimuths to True North
Magnetic North: 10.08°
Magnetic Field
Strength: 52222.3snT
Dip Angle: 65.79°
Date: 3/19/2012
Model: IGRF2010



Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU 14A-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 14A-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 14A-30-691					
Well Position	+N/-S	0.00 ft	Northing:	1,611,123.56 usft	Latitude:	39° 29' 32.67 N
	+E/-W	0.00 ft	Easting:	2,405,882.24 usft	Longitude:	107° 36' 19.39 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	119.23	

Survey Program	Date	5/29/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
123.00	652.00	Survey #1 (Wellbore #1)	MWD	MWD - Standard	
790.00	7,272.00	MWD (Wellbore #1)	MWD	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	
123.00	0.170	215.16	123.00	-0.15	-0.11	-0.02	0.14	0.14	0.00	
223.00	0.370	253.37	223.00	-0.36	-0.50	-0.26	0.26	0.20	38.21	
323.00	0.220	27.85	323.00	-0.29	-0.72	-0.49	0.55	-0.15	134.48	
423.00	0.150	142.88	423.00	-0.22	-0.55	-0.37	0.31	-0.07	115.03	
523.00	0.300	242.19	523.00	-0.45	-0.70	-0.40	0.36	0.15	99.31	
623.00	0.190	153.83	623.00	-0.72	-0.86	-0.40	0.35	-0.11	-88.36	
652.00	0.270	92.79	652.00	-0.76	-0.77	-0.30	0.84	0.28	-210.48	
790.00	2.500	180.20	789.95	-3.79	-0.46	1.45	1.81	1.62	63.34	
882.00	4.000	144.90	881.81	-8.42	1.38	5.32	2.65	1.63	-38.37	

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Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU 14A-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 14A-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)
973.00	5.600	151.90	972.49	-14.94	5.30	11.92	1.87	1.76	7.69
1,068.00	6.900	137.40	1,066.93	-23.23	11.34	21.24	2.14	1.37	-15.26
1,164.00	7.900	125.10	1,162.13	-31.27	20.64	33.28	1.95	1.04	-12.81
1,259.00	9.800	115.20	1,256.00	-38.46	33.30	47.84	2.56	2.00	-10.42
1,354.00	9.400	115.70	1,349.67	-45.27	47.61	63.65	0.43	-0.42	0.53
1,449.00	9.100	115.60	1,443.44	-51.88	61.38	78.89	0.32	-0.32	-0.11
1,544.00	9.100	116.50	1,537.24	-58.48	74.87	93.90	0.15	0.00	0.95
1,639.00	8.900	119.60	1,631.07	-65.46	87.99	108.75	0.55	-0.21	3.26
1,734.00	11.100	118.10	1,724.62	-73.40	102.44	125.24	2.33	2.32	-1.58
1,829.00	13.200	112.60	1,817.49	-81.88	120.53	145.16	2.52	2.21	-5.79
1,924.00	12.900	112.60	1,910.04	-90.12	140.33	166.47	0.32	-0.32	0.00
2,019.00	14.200	115.10	2,002.39	-99.14	160.68	188.63	1.50	1.37	2.63
2,115.00	13.400	119.20	2,095.62	-109.56	181.05	211.50	1.32	-0.83	4.27
2,207.00	13.000	120.30	2,185.19	-119.98	199.29	232.50	0.51	-0.43	1.20
2,302.00	13.900	118.70	2,277.59	-130.85	218.52	254.60	1.03	0.95	-1.68
2,397.00	13.800	120.70	2,369.83	-142.12	238.28	277.33	0.51	-0.11	2.11
2,492.00	14.500	114.40	2,461.95	-152.82	258.85	300.51	1.78	0.74	-6.63
2,587.00	14.400	116.00	2,553.94	-162.91	280.30	324.16	0.43	-0.11	1.68
2,682.00	14.000	116.20	2,646.04	-173.16	301.23	347.43	0.42	-0.42	0.21
2,777.00	14.300	120.40	2,738.16	-184.17	321.66	370.63	1.13	0.32	4.42
2,872.00	13.000	114.60	2,830.48	-194.56	341.49	393.01	1.99	-1.37	-6.11
2,967.00	12.700	114.50	2,923.10	-203.33	360.71	414.07	0.32	-0.32	-0.11
3,063.00	12.600	117.90	3,016.77	-212.61	379.57	435.06	0.78	-0.10	3.54
3,158.00	12.000	119.50	3,109.59	-222.32	397.32	455.29	0.73	-0.63	1.68
3,253.00	11.400	115.70	3,202.62	-231.26	414.38	474.54	1.03	-0.63	-4.00
3,348.00	9.100	117.00	3,296.10	-238.74	429.53	491.42	2.43	-2.42	1.37
3,443.00	7.200	112.70	3,390.13	-244.45	441.72	504.84	2.10	-2.00	-4.53
3,538.00	7.100	114.40	3,484.39	-249.17	452.56	516.61	0.25	-0.11	1.79
3,633.00	7.500	115.50	3,578.62	-254.27	463.50	528.64	0.45	0.42	1.16
3,728.00	6.000	110.20	3,672.96	-258.65	473.76	539.74	1.71	-1.58	-5.58
3,823.00	5.400	114.20	3,767.49	-262.20	482.49	549.09	0.76	-0.63	4.21
3,918.00	5.500	117.40	3,862.07	-266.12	490.61	558.10	0.34	0.11	3.37
4,014.00	4.600	107.60	3,957.69	-269.40	498.37	566.46	1.30	-0.94	-10.21
4,109.00	4.800	112.00	4,052.37	-272.05	505.68	574.14	0.43	0.21	4.63
4,204.00	4.000	96.70	4,147.10	-273.92	512.66	581.14	1.49	-0.84	-16.11
4,299.00	2.500	67.00	4,241.95	-273.50	517.86	585.47	2.32	-1.58	-31.26
4,394.00	0.700	52.20	4,336.91	-272.33	520.23	586.97	1.93	-1.89	-15.58
4,489.00	0.700	117.30	4,431.90	-272.24	521.20	587.78	0.79	0.00	68.53
4,584.00	0.900	137.50	4,526.89	-273.06	522.22	589.06	0.36	0.21	21.26
4,679.00	1.300	141.20	4,621.87	-274.45	523.40	590.77	0.43	0.42	3.89
4,774.00	1.400	164.80	4,716.85	-276.41	524.38	592.58	0.59	0.11	24.84
4,869.00	0.400	17.70	4,811.84	-277.21	524.78	593.33	1.84	-1.05	-154.84
4,965.00	0.200	302.40	4,907.84	-276.80	524.74	593.10	0.42	-0.21	-78.44

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 14A-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)	
5,060.00	0.300	138.30	5,002.84	-276.90	524.77	593.16	0.52	0.11	-172.74	
5,155.00	0.900	149.00	5,097.83	-277.73	525.32	594.05	0.64	0.63	11.26	
5,250.00	1.400	177.70	5,192.81	-279.53	525.75	595.30	0.79	0.53	30.21	
5,345.00	1.900	173.10	5,287.78	-282.25	525.99	596.84	0.54	0.53	-4.84	
5,440.00	1.000	141.20	5,382.75	-284.46	526.69	598.53	1.24	-0.95	-33.58	
5,535.00	0.800	106.30	5,477.73	-285.29	527.85	599.95	0.60	-0.21	-36.74	
5,630.00	0.800	156.80	5,572.73	-286.09	528.75	601.12	0.72	0.00	53.16	
5,725.00	1.500	358.00	5,667.72	-285.45	528.97	601.00	2.38	0.74	-167.16	
5,820.00	2.300	358.20	5,762.66	-282.31	528.86	599.38	0.84	0.84	0.21	
5,916.00	1.700	352.60	5,858.61	-278.97	528.62	597.53	0.66	-0.63	-5.83	
6,011.00	1.000	0.10	5,953.58	-276.74	528.44	596.29	0.76	-0.74	7.89	
6,106.00	0.400	326.00	6,048.57	-275.64	528.26	595.59	0.74	-0.63	-35.89	
6,201.00	0.300	332.90	6,143.57	-275.14	527.96	595.09	0.11	-0.11	7.26	
6,296.00	0.600	192.60	6,238.57	-275.41	527.73	595.02	0.90	0.32	-147.68	
6,391.00	1.000	40.50	6,333.56	-275.26	528.16	595.33	1.64	0.42	-160.11	
6,486.00	0.900	38.30	6,428.55	-274.04	529.17	595.61	0.11	-0.11	-2.32	
6,581.00	0.900	62.60	6,523.54	-273.12	530.29	596.13	0.40	0.00	25.58	
6,676.00	0.400	110.60	6,618.53	-272.89	531.26	596.87	0.74	-0.53	50.53	
6,771.00	0.700	14.80	6,713.53	-272.44	531.72	597.06	0.88	0.32	-100.84	
6,867.00	1.100	135.80	6,809.52	-272.54	532.51	597.79	1.64	0.42	126.04	
6,962.00	2.000	108.80	6,904.49	-273.73	534.72	600.30	1.20	0.95	-28.42	
7,057.00	2.100	115.70	6,999.43	-275.02	537.86	603.66	0.28	0.11	7.26	
7,152.00	2.200	125.60	7,094.36	-276.83	540.91	607.21	0.40	0.11	10.42	
7,225.00	2.200	132.70	7,167.31	-278.60	543.08	609.97	0.37	0.00	9.73	
7,272.00	2.200	132.70	7,214.27	-279.82	544.40	611.72	0.00	0.00	0.00	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
652.00	652.00	-0.76	-0.77	Tie-in Gyro	
1,639.00	1,631.07	-65.46	87.99	As of May 22	
4,965.00	4,907.84	-276.80	524.74	As of May 23	
6,581.00	6,523.54	-273.12	530.29	As of May 24	
7,272.00	7,214.27	-279.82	544.40	Projected TD	

Checked By: _____ Approved By: _____ Date: _____