

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

MDP Pad #10

GGU Federal 33C-20-691

Wellbore #1

Design: Wellbore #1

Standard Survey Report

16 September, 2011



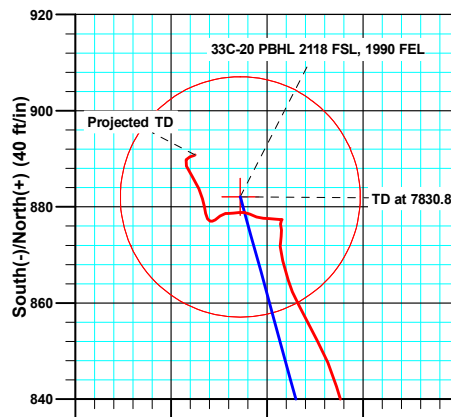
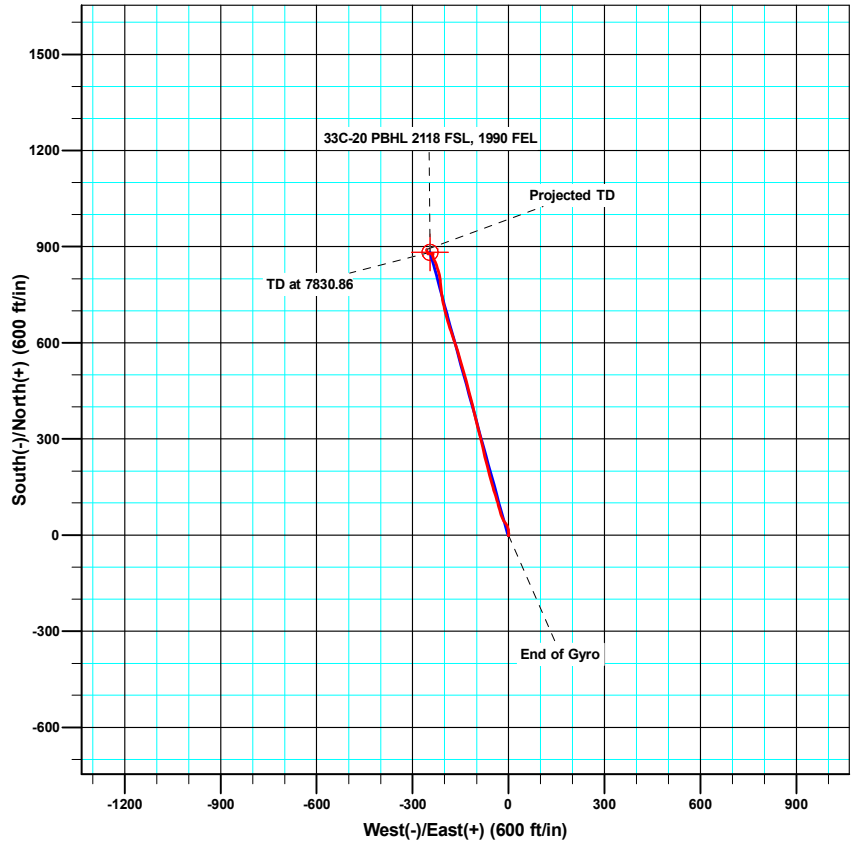
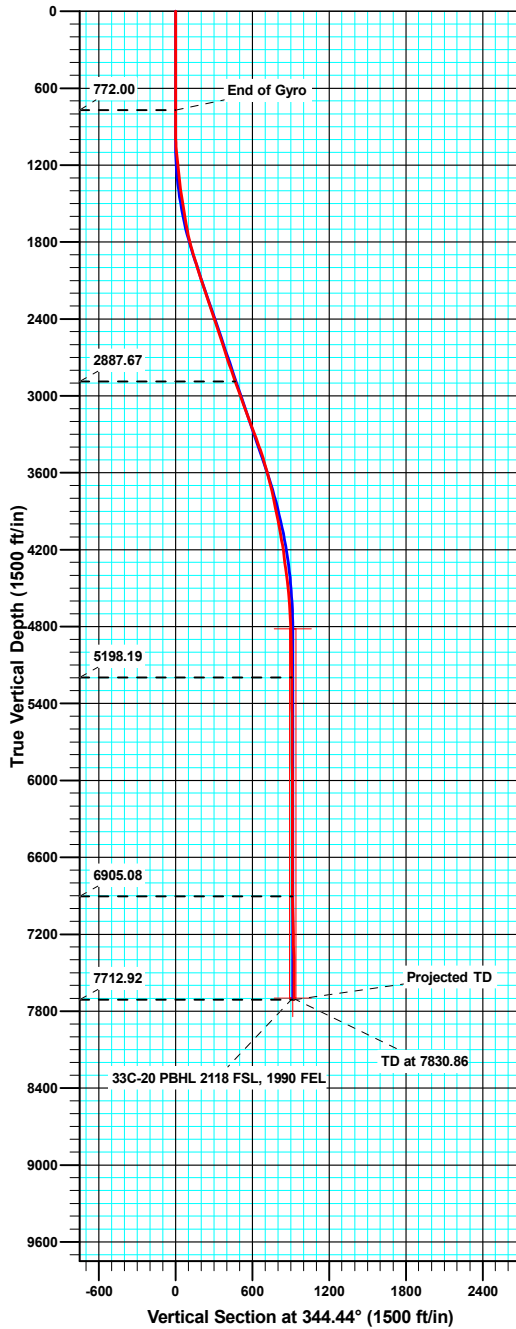
WELL DETAILS: GGU FEDERAL 33C-20-691

Ground Level: 6452.00



North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1617147.42 2414625.69 39° 30' 34.18 N 107° 34' 29.64 W

MDP Pad #10



Azimuths to True North
 Magnetic North: 10.14°

Magnetic Field
 Strength: 52287.1snT
 Dip Angle: 65.82°
 Date: 08/30/2011
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
772.00	772.00	0.200	297.12	-0.85	-0.46	-0.69	2.52	End of Gyro
2887.67	2953.00	19.300	345.30	449.48	-124.20	466.33	472.66	As of Sept 13
5198.19	5323.00	0.800	356.60	876.41	-237.18	907.91	916.09	As of Sept 14
6905.08	7030.00	0.900	355.00	878.64	-252.82	914.26	935.08	As of Sept 15
7712.92	7838.00	0.400	68.40	890.83	-254.97	926.57	949.58	Projected TD



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Federal 33C-20-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 6495.91ft (KB=22')
Site:	MDP Pad #10	MD Reference:	KB @ 6495.91ft (KB=22')
Well:	GGU Federal 33C-20-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Project	Garfield County, Colorado [NAD83]		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	MDP Pad #10				
Site Position:		Northing:	1,617,054.04 usft	Latitude:	39° 30' 33.26 N
From:	Lat/Long	Easting:	2,414,646.98 usft	Longitude:	107° 34' 29.34 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.31 °

Well	GGU Federal 33C-20-691					
Well Position	+N/-S	0.00 ft	Northing:	1,617,147.42 usft	Latitude:	39° 30' 34.18 N
	+E/-W	0.00 ft	Easting:	2,414,625.69 usft	Longitude:	107° 34' 29.64 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,473.91 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/30/11	10.14	65.82	52,287

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	344.44	

Survey Program	Date	09/16/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
22.00	772.00	Survey #1 Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
800.00	7,838.00	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	
22.00	0.000	0.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	
72.00	0.340	205.09	72.00	-0.13	-0.06	-0.11	0.68	0.68	0.00	
122.00	0.190	303.49	122.00	-0.22	-0.19	-0.16	0.83	-0.30	196.80	
172.00	0.260	185.98	172.00	-0.29	-0.28	-0.21	0.77	0.14	-235.02	
222.00	0.270	199.46	222.00	-0.51	-0.33	-0.41	0.13	0.02	26.96	
272.00	0.280	207.19	272.00	-0.73	-0.42	-0.59	0.08	0.02	15.46	
322.00	0.270	195.04	322.00	-0.96	-0.51	-0.78	0.12	-0.02	-24.30	
372.00	0.140	127.85	372.00	-1.11	-0.49	-0.94	0.50	-0.26	-134.38	
422.00	0.120	52.16	422.00	-1.11	-0.40	-0.96	0.32	-0.04	-151.38	

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Well:	GGU Federal 33C-20-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

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)
472.00	0.170	332.28	472.00	-1.01	-0.39	-0.87	0.38	0.10	-159.76
522.00	0.170	285.37	522.00	-0.93	-0.50	-0.76	0.27	0.00	-93.82
572.00	0.120	212.76	572.00	-0.95	-0.60	-0.76	0.35	-0.10	-145.22
622.00	0.080	137.10	622.00	-1.02	-0.60	-0.82	0.25	-0.08	-151.32
672.00	0.240	79.53	672.00	-1.03	-0.48	-0.86	0.42	0.32	-115.14
722.00	0.140	354.94	722.00	-0.95	-0.38	-0.81	0.53	-0.20	-169.18
772.00	0.200	297.12	772.00	-0.85	-0.46	-0.69	0.35	0.12	-115.64
800.00	0.200	297.12	800.00	-0.81	-0.55	-0.63	0.00	0.00	0.00
870.00	0.400	112.40	870.00	-0.84	-0.43	-0.70	0.86	0.29	250.40
962.00	1.400	8.30	961.99	0.15	0.03	0.13	1.68	1.09	-113.15
1,057.00	4.000	357.80	1,056.87	4.61	0.07	4.42	2.77	2.74	-11.05
1,152.00	5.400	356.10	1,151.55	12.38	-0.37	12.02	1.48	1.47	-1.79
1,246.00	6.400	343.10	1,245.06	21.80	-2.19	21.59	1.77	1.06	-13.83
1,340.00	7.000	327.90	1,338.42	31.67	-6.76	32.32	1.98	0.64	-16.17
1,435.00	8.800	325.30	1,432.52	42.55	-13.97	44.74	1.93	1.89	-2.74
1,530.00	8.900	337.70	1,526.39	55.32	-20.90	58.90	2.01	0.11	13.05
1,624.00	9.900	345.70	1,619.13	69.88	-25.65	74.20	1.75	1.06	8.51
1,719.00	11.600	343.40	1,712.46	86.95	-30.40	91.92	1.85	1.79	-2.42
1,814.00	14.200	345.10	1,805.06	107.37	-36.12	113.12	2.77	2.74	1.79
1,909.00	16.300	340.90	1,896.71	131.23	-43.48	138.08	2.50	2.21	-4.42
2,004.00	18.100	345.80	1,987.46	158.14	-51.47	166.15	2.43	1.89	5.16
2,099.00	18.100	345.10	2,077.76	186.70	-58.88	195.66	0.23	0.00	-0.74
2,194.00	18.200	344.40	2,168.04	215.26	-66.67	225.25	0.25	0.11	-0.74
2,290.00	18.000	347.30	2,259.29	244.17	-73.96	255.06	0.96	-0.21	3.02
2,385.00	18.800	346.70	2,349.43	273.38	-80.71	285.01	0.87	0.84	-0.63
2,479.00	18.600	346.20	2,438.47	302.68	-87.77	315.13	0.27	-0.21	-0.53
2,574.00	18.500	346.30	2,528.53	332.04	-94.95	345.34	0.11	-0.11	0.11
2,669.00	18.200	345.80	2,618.70	361.06	-102.16	375.23	0.36	-0.32	-0.53
2,764.00	18.200	346.80	2,708.95	389.89	-109.19	404.89	0.33	0.00	1.05
2,858.00	19.200	345.70	2,797.99	419.16	-116.36	435.01	1.13	1.06	-1.17
2,953.00	19.300	345.30	2,887.67	449.48	-124.20	466.33	0.17	0.11	-0.42
3,048.00	20.000	344.70	2,977.14	480.34	-132.47	498.27	0.77	0.74	-0.63
3,143.00	20.100	344.20	3,066.38	511.72	-141.20	530.84	0.21	0.11	-0.53
3,238.00	20.200	343.50	3,155.57	543.15	-150.30	563.56	0.27	0.11	-0.74
3,332.00	20.600	342.60	3,243.67	574.49	-159.86	596.32	0.54	0.43	-0.96
3,427.00	21.300	340.70	3,332.39	606.72	-170.56	630.24	1.03	0.74	-2.00
3,522.00	19.000	341.70	3,421.57	637.70	-181.12	662.91	2.45	-2.42	1.05
3,617.00	16.000	344.10	3,512.17	664.98	-189.56	691.45	3.25	-3.16	2.53
3,712.00	15.400	344.30	3,603.62	689.71	-196.56	717.16	0.63	-0.63	0.21
3,807.00	13.500	349.00	3,695.62	712.74	-202.09	740.83	2.35	-2.00	4.95
3,902.00	12.400	350.60	3,788.20	733.69	-205.88	762.03	1.22	-1.16	1.68
3,996.00	11.400	352.30	3,880.18	752.85	-208.77	781.26	1.13	-1.06	1.81
4,091.00	11.200	352.60	3,973.34	771.31	-211.22	799.70	0.22	-0.21	0.32

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Survey									
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4,186.00	11.100	354.20	4,066.54	789.56	-213.33	817.84	0.34	-0.11	1.68
4,281.00	9.100	351.60	4,160.07	806.09	-215.35	834.31	2.16	-2.11	-2.74
4,376.00	8.100	341.90	4,254.00	819.88	-218.53	848.45	1.85	-1.05	-10.21
4,471.00	7.000	343.80	4,348.18	831.80	-222.22	860.93	1.19	-1.16	2.00
4,566.00	6.700	342.30	4,442.50	842.64	-225.52	872.25	0.37	-0.32	-1.58
4,659.00	6.100	332.10	4,534.92	852.18	-229.48	882.50	1.38	-0.65	-10.97
4,754.00	4.000	332.20	4,629.55	859.57	-233.39	890.67	2.21	-2.21	0.11
4,849.00	2.900	344.30	4,724.38	864.81	-235.59	896.31	1.38	-1.16	12.74
4,943.00	2.200	343.00	4,818.28	868.83	-236.76	900.50	0.75	-0.74	-1.38
5,038.00	1.500	359.60	4,913.23	871.82	-237.30	903.52	0.92	-0.74	17.47
5,133.00	1.000	17.90	5,008.21	873.85	-237.05	905.41	0.67	-0.53	19.26
5,228.00	0.700	342.70	5,103.20	875.19	-236.97	906.68	0.62	-0.32	-37.05
5,323.00	0.800	356.60	5,198.19	876.41	-237.18	907.91	0.22	0.11	14.63
5,418.00	0.300	52.60	5,293.19	877.22	-237.02	908.65	0.72	-0.53	58.95
5,513.00	0.100	267.30	5,388.19	877.37	-236.91	908.76	0.41	-0.21	-152.95
5,607.00	1.300	273.90	5,482.18	877.44	-238.06	909.14	1.28	1.28	7.02
5,702.00	0.600	279.70	5,577.17	877.59	-239.62	909.71	0.74	-0.74	6.11
5,797.00	0.800	269.10	5,672.16	877.67	-240.77	910.09	0.25	0.21	-11.16
5,891.00	1.000	289.30	5,766.15	877.93	-242.20	910.72	0.40	0.21	21.49
5,986.00	0.800	296.50	5,861.14	878.50	-243.58	911.64	0.24	-0.21	7.58
6,081.00	0.700	272.50	5,956.13	878.82	-244.75	912.26	0.34	-0.11	-25.26
6,176.00	0.600	268.60	6,051.12	878.83	-245.83	912.57	0.12	-0.11	-4.11
6,271.00	0.900	260.70	6,146.11	878.70	-247.06	912.77	0.33	0.32	-8.32
6,365.00	0.400	276.00	6,240.11	878.61	-248.12	912.97	0.56	-0.53	16.28
6,450.00	0.400	266.50	6,325.11	878.63	-248.71	913.14	0.08	0.00	-11.18
6,554.00	1.000	235.20	6,429.10	878.09	-249.82	912.92	0.66	0.58	-30.10
6,649.00	0.500	228.80	6,524.09	877.34	-250.81	912.47	0.53	-0.53	-6.74
6,744.00	0.300	264.10	6,619.09	877.04	-251.37	912.33	0.32	-0.21	37.16
6,839.00	0.300	284.20	6,714.09	877.08	-251.86	912.49	0.11	0.00	21.16
6,935.00	0.600	319.60	6,810.08	877.52	-252.43	913.07	0.41	0.31	36.88
7,030.00	0.900	355.00	6,905.08	878.64	-252.82	914.26	0.57	0.32	37.26
7,124.00	0.900	342.20	6,999.06	880.08	-253.11	915.72	0.21	0.00	-13.62
7,219.00	1.100	348.60	7,094.05	881.69	-253.51	917.38	0.24	0.21	6.74
7,314.00	1.500	336.70	7,189.02	883.72	-254.19	919.52	0.51	0.42	-12.53
7,409.00	2.000	328.40	7,283.98	886.28	-255.55	922.34	0.59	0.53	-8.74
7,504.00	1.100	334.60	7,378.94	888.51	-256.81	924.84	0.96	-0.95	6.53
7,599.00	0.700	33.70	7,473.93	889.82	-256.88	926.11	1.00	-0.42	62.21
7,694.00	0.600	73.80	7,568.93	890.44	-256.08	926.50	0.48	-0.11	42.21
7,788.00	0.400	68.40	7,662.93	890.70	-255.30	926.54	0.22	-0.21	-5.74
7,838.00	0.400	68.40	7,712.92	890.83	-254.97	926.57	0.00	0.00	0.00

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Well:	GGU Federal 33C-20-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
772.00	772.00	-0.85	-0.46	End of Gyro
2,953.00	2,887.67	449.48	-124.20	As of Sept 13
5,323.00	5,198.19	876.41	-237.18	As of Sept 14
7,030.00	6,905.08	878.64	-252.82	As of Sept 15
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Checked By: _____ Approved By: _____ Date: _____