

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

MDP Pad #10

GGU Federal 33A-20-691

Wellbore #1

Design: Wellbore #1

Standard Survey Report

05 October, 2011

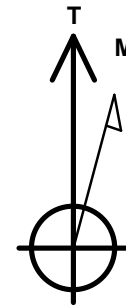
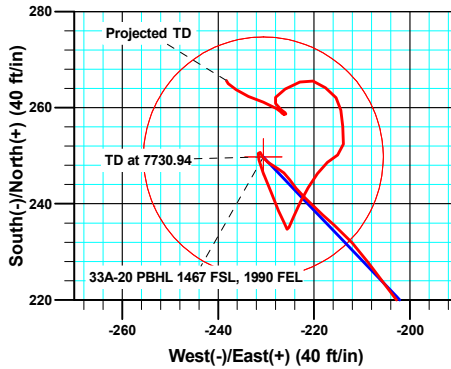
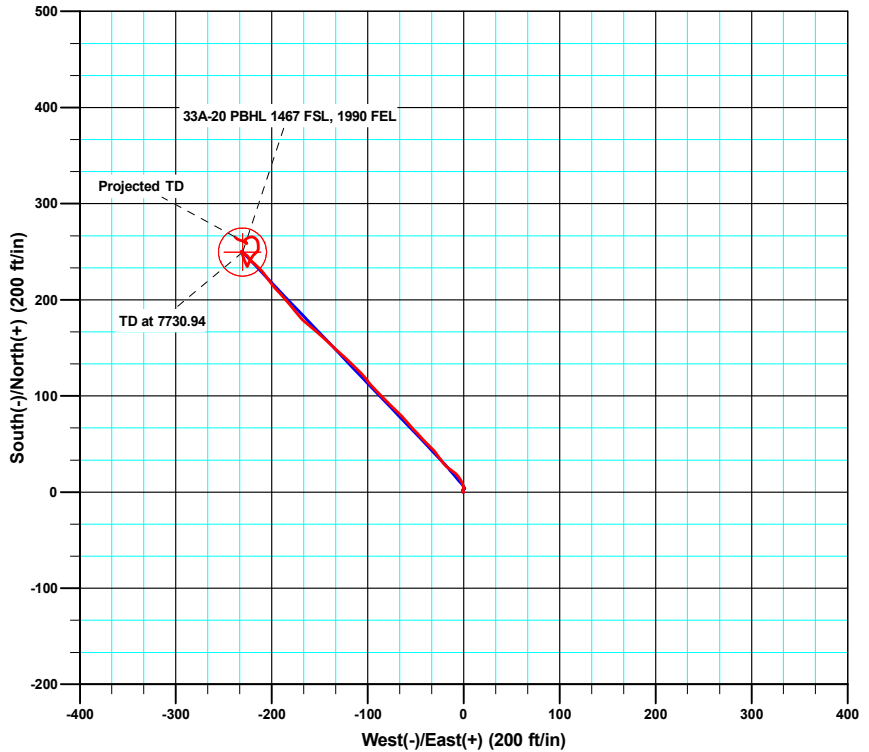
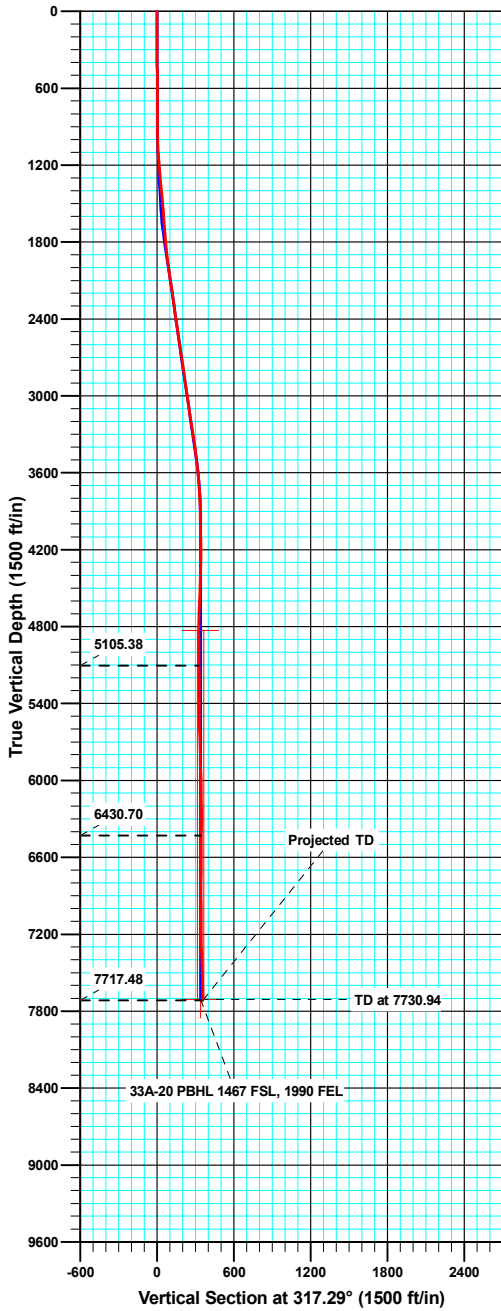


Well Details: GGU Federal 33A-20-691

Ground Level: 6473.01 KB @ 6495.01ft (KB=22')

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1617129.34 2414619.63 39° 30' 34.00 N 107° 34' 29.71 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
5105.38	5127.00	2.100	24.00	240.28	-222.92	327.76	370.97	As of Sept 24
6430.70	6453.00	0.400	131.90	260.91	-228.00	346.37	413.54	As of Sept 26
7717.48	7740.00	0.900	327.10	265.67	-238.27	356.83	431.86	Projected TD



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Federal 33A-20-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 6495.01ft (KB=22')
Site:	MDP Pad #10	MD Reference:	KB @ 6495.01ft (KB=22')
Well:	GGU Federal 33A-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 33A-20-691					
Well Position	+N/-S	0.00 ft	Northing:	1,617,129.34 usft	Latitude:	39° 30' 34.00 N
	+E/-W	0.00 ft	Easting:	2,414,619.63 usft	Longitude:	107° 34' 29.71 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,473.01 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	317.29	

Survey Program	Date	10/05/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
22.00	767.00	Survey #1 Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
898.00	7,740.00	MWD Surveys (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	0.140	300.85	72.00	0.03	-0.05	0.06	0.28	0.28	0.00	
122.00	0.160	295.34	122.00	0.09	-0.17	0.18	0.05	0.04	-11.02	
172.00	0.380	270.26	172.00	0.12	-0.40	0.36	0.49	0.44	-50.16	
222.00	0.500	267.96	222.00	0.12	-0.78	0.61	0.24	0.24	-4.60	
272.00	0.220	251.62	272.00	0.08	-1.09	0.80	0.59	-0.56	-32.68	
322.00	0.380	355.54	322.00	0.21	-1.19	0.97	0.97	0.32	207.84	
372.00	0.340	17.90	372.00	0.52	-1.16	1.17	0.29	-0.08	44.72	
422.00	0.380	346.39	422.00	0.82	-1.15	1.39	0.40	0.08	-63.02	

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Well:	GGU Federal 33A-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	0.210	1.92	471.99	1.07	-1.19	1.60	0.37	-0.34	31.06
522.00	0.120	336.68	521.99	1.21	-1.21	1.71	0.23	-0.18	-50.48
572.00	0.290	18.49	571.99	1.38	-1.19	1.82	0.43	0.34	83.62
622.00	0.400	36.22	621.99	1.64	-1.05	1.92	0.30	0.22	35.46
672.00	0.400	348.11	671.99	1.95	-0.98	2.10	0.65	0.00	-96.22
722.00	0.200	338.38	721.99	2.21	-1.05	2.33	0.41	-0.40	-19.46
767.00	0.660	61.90	766.99	2.40	-0.85	2.34	1.48	1.02	185.60
898.00	0.400	25.00	897.98	3.17	0.01	2.32	0.32	-0.20	-28.17
960.00	0.900	0.80	959.98	3.85	0.11	2.76	0.90	0.81	-39.03
1,055.00	3.100	342.30	1,054.92	7.05	-0.66	5.63	2.38	2.32	-19.47
1,150.00	4.700	330.30	1,149.70	12.88	-3.37	11.75	1.88	1.68	-12.63
1,243.00	5.200	312.90	1,242.35	19.06	-8.35	19.66	1.69	0.54	-18.71
1,338.00	5.400	303.20	1,336.95	24.43	-15.24	28.29	0.97	0.21	-10.21
1,433.00	4.800	323.70	1,431.58	30.09	-21.33	36.58	2.01	-0.63	21.58
1,528.00	5.300	324.20	1,526.21	36.85	-26.25	44.88	0.53	0.53	0.53
1,622.00	4.300	319.00	1,619.88	43.03	-31.10	52.71	1.16	-1.06	-5.53
1,717.00	4.700	313.80	1,714.59	48.41	-36.25	60.16	0.60	0.42	-5.47
1,812.00	5.100	317.70	1,809.24	54.23	-41.90	68.27	0.55	0.42	4.11
1,907.00	6.400	316.60	1,903.76	61.20	-48.38	77.78	1.37	1.37	-1.16
2,002.00	8.200	318.90	1,997.99	70.15	-56.47	89.85	1.92	1.89	2.42
2,096.00	8.300	316.80	2,091.02	80.15	-65.53	103.34	0.34	0.11	-2.23
2,191.00	7.600	312.40	2,185.10	89.38	-74.86	116.45	0.98	-0.74	-4.63
2,287.00	7.900	313.90	2,280.23	98.24	-84.30	129.36	0.38	0.31	1.56
2,382.00	7.600	318.60	2,374.36	107.48	-93.16	142.16	0.74	-0.32	4.95
2,477.00	9.300	321.30	2,468.32	118.18	-102.11	156.10	1.84	1.79	2.84
2,572.00	8.300	313.20	2,562.21	128.87	-111.91	170.60	1.67	-1.05	-8.53
2,667.00	8.700	313.50	2,656.16	138.51	-122.12	184.61	0.42	0.42	0.32
2,762.00	7.900	311.70	2,750.17	147.80	-132.21	198.27	0.89	-0.84	-1.89
2,856.00	8.600	312.30	2,843.20	156.82	-142.23	211.71	0.75	0.74	0.64
2,950.00	8.300	312.00	2,936.18	166.09	-152.47	225.46	0.32	-0.32	-0.32
3,045.00	8.200	309.40	3,030.19	174.98	-162.80	239.00	0.41	-0.11	-2.74
3,140.00	8.700	319.20	3,124.17	184.72	-172.73	252.89	1.60	0.53	10.32
3,235.00	8.500	321.60	3,218.10	195.66	-181.79	267.08	0.43	-0.21	2.53
3,330.00	9.000	315.30	3,311.99	206.45	-191.38	281.50	1.14	0.53	-6.63
3,425.00	8.600	323.00	3,405.88	217.40	-200.88	296.00	1.31	-0.42	8.11
3,520.00	6.900	323.20	3,500.01	227.64	-208.57	308.74	1.79	-1.79	0.21
3,615.00	6.200	311.60	3,594.39	235.62	-215.83	319.52	1.57	-0.74	-12.21
3,710.00	3.700	315.00	3,689.03	241.19	-221.83	327.69	2.65	-2.63	3.58
3,805.00	2.400	325.70	3,783.89	245.00	-225.12	332.72	1.49	-1.37	11.26
3,900.00	1.900	298.20	3,878.83	247.39	-227.63	336.18	1.19	-0.53	-28.95
3,994.00	1.100	308.30	3,972.80	248.69	-229.71	338.54	0.89	-0.85	10.74
4,089.00	0.800	333.10	4,067.78	249.84	-230.73	340.08	0.53	-0.32	26.11
4,184.00	0.400	323.30	4,162.78	250.70	-231.22	341.05	0.43	-0.42	-10.32

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Design:	Wellbore #1	Database:	Compass VM

Survey										
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4,278.00	0.600	203.80	4,256.78	250.51	-231.62	341.18	0.93	0.21	-127.13	
4,372.00	1.200	162.20	4,350.76	249.13	-231.52	340.09	0.90	0.64	-44.26	
4,466.00	2.200	159.30	4,444.72	246.50	-230.58	337.53	1.07	1.06	-3.09	
4,560.00	3.100	157.30	4,538.62	242.47	-228.96	333.47	0.96	0.96	-2.13	
4,654.00	2.000	159.10	4,632.53	238.59	-227.39	329.55	1.17	-1.17	1.91	
4,748.00	1.400	150.00	4,726.48	236.07	-226.23	326.91	0.70	-0.64	-9.68	
4,842.00	0.400	163.20	4,820.47	234.76	-225.56	325.50	1.08	-1.06	14.04	
4,937.00	0.900	18.80	4,915.47	235.15	-225.23	325.55	1.31	0.53	-152.00	
5,032.00	1.900	25.60	5,010.44	237.27	-224.31	326.49	1.07	1.05	7.16	
5,127.00	2.100	24.00	5,105.38	240.28	-222.92	327.76	0.22	0.21	-1.68	
5,221.00	2.200	33.20	5,199.32	243.37	-221.23	328.88	0.38	0.11	9.79	
5,316.00	2.100	34.00	5,294.25	246.33	-219.26	329.73	0.11	-0.11	0.84	
5,411.00	1.700	51.70	5,389.20	248.65	-217.18	330.02	0.74	-0.42	18.63	
5,506.00	1.400	56.80	5,484.16	250.16	-215.10	329.72	0.35	-0.32	5.37	
5,600.00	2.000	8.50	5,578.12	252.41	-213.90	330.55	1.59	0.64	-51.38	
5,695.00	2.500	350.30	5,673.05	256.09	-214.00	333.33	0.91	0.53	-19.16	
5,790.00	1.600	356.60	5,767.99	259.46	-214.43	336.09	0.98	-0.95	6.63	
5,885.00	1.900	324.90	5,862.95	262.07	-215.41	338.68	1.05	0.32	-33.37	
5,980.00	1.800	301.90	5,957.90	264.15	-217.59	341.68	0.78	-0.11	-24.21	
6,075.00	1.800	295.70	6,052.85	265.58	-220.20	344.51	0.20	0.00	-6.53	
6,170.00	2.000	238.10	6,147.81	265.35	-222.95	346.21	1.94	0.21	-60.63	
6,264.00	2.200	249.50	6,241.75	263.86	-226.03	347.20	0.49	0.21	12.13	
6,359.00	1.300	193.50	6,336.71	262.17	-227.99	347.29	1.92	-0.95	-58.95	
6,453.00	0.400	131.90	6,430.70	260.91	-228.00	346.37	1.24	-0.96	-65.53	
6,549.00	0.500	149.30	6,526.69	260.33	-227.53	345.62	0.18	0.10	18.13	
6,644.00	0.800	125.60	6,621.69	259.59	-226.78	344.57	0.42	0.32	-24.95	
6,739.00	0.400	131.80	6,716.68	258.98	-226.00	343.59	0.43	-0.42	6.53	
6,834.00	0.200	243.20	6,811.68	258.68	-225.90	343.30	0.54	-0.21	117.26	
6,929.00	0.200	270.90	6,906.68	258.61	-226.21	343.46	0.10	0.00	29.16	
7,024.00	0.100	65.60	7,001.68	258.65	-226.30	343.55	0.31	-0.11	162.84	
7,118.00	0.100	233.20	7,095.68	258.63	-226.29	343.53	0.21	0.00	178.30	
7,213.00	0.400	318.80	7,190.68	258.83	-226.58	343.87	0.43	0.32	90.11	
7,308.00	1.500	307.10	7,285.67	259.83	-227.79	345.43	1.17	1.16	-12.32	
7,403.00	2.200	287.30	7,380.62	261.13	-230.52	348.23	0.99	0.74	-20.84	
7,498.00	1.900	296.90	7,475.56	262.38	-233.67	351.29	0.48	-0.32	10.11	
7,593.00	1.600	298.40	7,570.51	263.72	-236.24	354.02	0.32	-0.32	1.58	
7,690.00	0.900	327.10	7,667.49	265.01	-237.84	356.05	0.95	-0.72	29.59	
7,740.00	0.900	327.10	7,717.48	265.67	-238.27	356.83	0.00	0.00	0.00	

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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)	
5,127.00	5,105.38	240.28	-222.92	As of Sept 24
6,453.00	6,430.70	260.91	-228.00	As of Sept 26
7,740.00	7,717.48	265.67	-238.27	Projected TD

Checked By: _____ Approved By: _____ Date: _____