



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

MDP 11 Pad

GGU Federal 34A-20-691

Wellbore #1

Survey: Surveys

Standard Survey Report

01 March, 2011

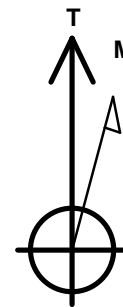
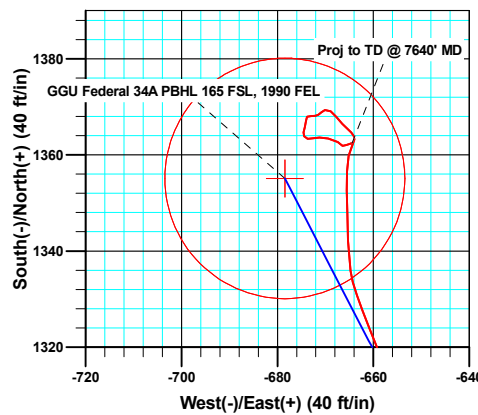
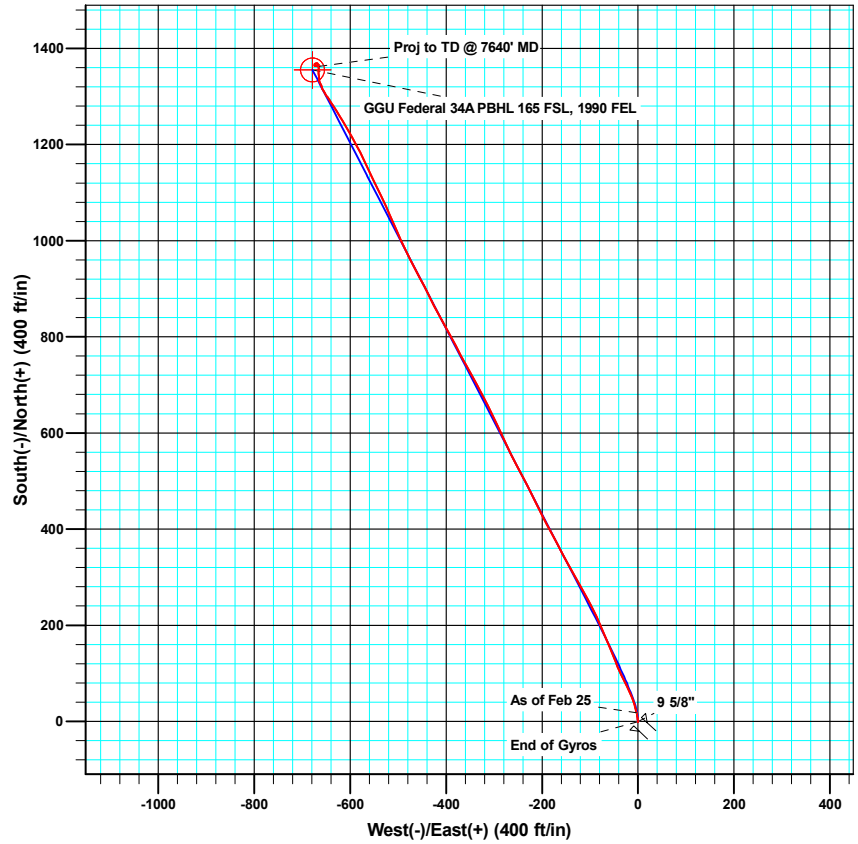
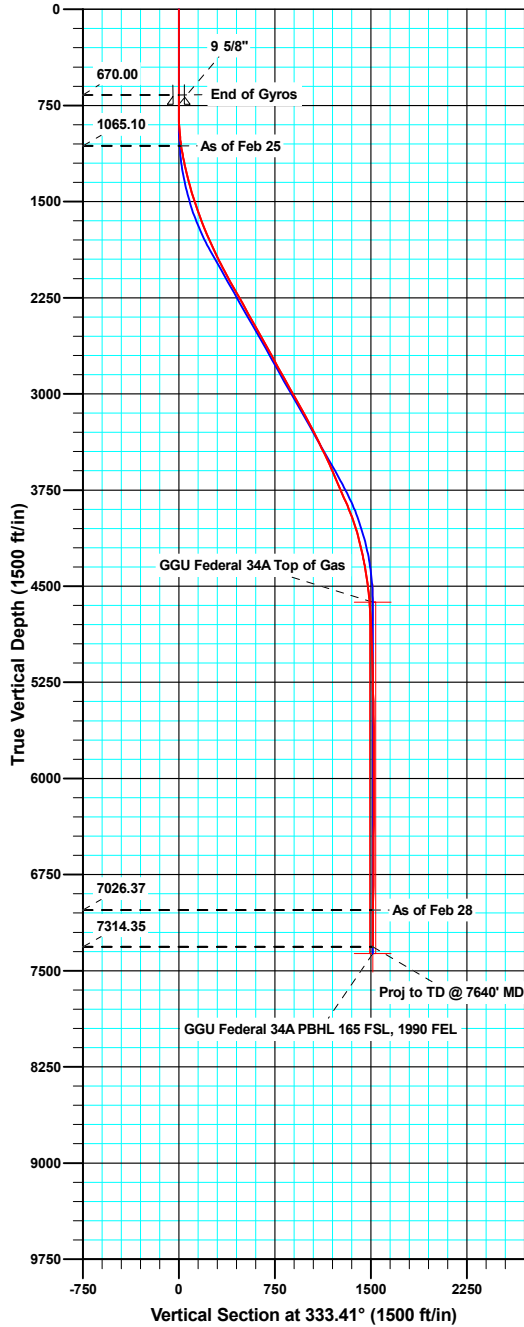




WELL DETAILS: GGU Federal 34A-20-691

Ground Level: 6103.90

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1614712.78 2415031.26 39° 30' 10.22 N 107° 34' 23.75 W
 MDP 11 Pad



Azimuths to True North
 Magnetic North: 10.20°
 Magnetic Field
 Strength: 52387.2snT
 Dip Angle: 65.85°
 Date: 12/21/2010
 Model: IGRF200510

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
1065.10	1066.00	8.400	347.90	18.09	-3.11	17.56	19.29	As of Feb 25
7026.37	7352.00	1.100	134.00	1362.65	-667.38	1517.25	1549.71	As of Feb 28
7314.35	7640.00	0.700	75.30	1362.45	-664.39	1515.73	1553.19	Proj to TD @ 7640' MD



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Federal 34A-20-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 6126.90ft
Site:	MDP 11 Pad	MD Reference:	KB @ 6126.90ft
Well:	GGU Federal 34A-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 11 Pad				
Site Position:		Northing:	1,614,688.12 usft	Latitude:	39° 30' 9.99 N
From:	Lat/Long	Easting:	2,415,090.26 usft	Longitude:	107° 34' 22.99 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.31 °

Well	GGU Federal 34A-20-691					
Well Position	+N/-S	0.00 ft	Northing:	1,614,712.78 usft	Latitude:	39° 30' 10.22 N
	+E/-W	0.00 ft	Easting:	2,415,031.27 usft	Longitude:	107° 34' 23.75 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,103.90 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/21/10	10.20	65.85	52,387

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	333.41	

Survey Program	Date	03/01/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	670.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
789.00	7,640.00	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)	
670.00	0.140	206.98	670.00	-0.65	-0.16	-0.51	0.00	0.00	0.00	
741.60	0.092	313.53	741.60	-0.69	-0.24	-0.51	0.26	-0.07	148.81	
9 5/8"										
789.00	0.200	339.90	789.00	-0.59	-0.30	-0.39	0.26	0.23	55.64	
882.00	2.300	359.40	881.97	1.43	-0.37	1.45	2.27	2.26	20.97	
974.00	5.200	351.00	973.76	7.40	-1.04	7.08	3.20	3.15	-9.13	
1,066.00	8.400	347.90	1,065.10	18.09	-3.11	17.56	3.50	3.48	-3.37	
1,158.00	11.400	344.20	1,155.72	33.41	-6.99	33.01	3.33	3.26	-4.02	
1,250.00	12.700	336.60	1,245.70	51.44	-13.48	52.04	2.23	1.41	-8.26	
1,346.00	15.600	334.30	1,338.78	72.76	-23.27	75.48	3.08	3.02	-2.40	

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Well:	GGU Federal 34A-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)	
1,441.00	16.800	334.10	1,430.01	96.62	-34.81	101.99	1.26	1.26	-0.21	
1,536.00	18.500	338.10	1,520.53	122.96	-46.43	130.74	2.20	1.79	4.21	
1,632.00	20.200	337.50	1,611.11	152.41	-58.46	162.45	1.78	1.77	-0.63	
1,727.00	21.900	337.00	1,699.76	183.87	-71.66	196.50	1.80	1.79	-0.53	
1,822.00	23.900	336.00	1,787.27	217.76	-86.41	233.41	2.14	2.11	-1.05	
1,918.00	24.800	330.50	1,874.74	253.06	-104.23	272.95	2.54	0.94	-5.73	
2,013.00	26.200	330.70	1,960.49	288.69	-124.31	313.80	1.48	1.47	0.21	
2,108.00	28.700	330.90	2,044.79	326.92	-145.67	357.54	2.63	2.63	0.21	
2,204.00	29.200	333.00	2,128.79	367.92	-167.51	403.99	1.18	0.52	2.19	
2,299.00	29.400	330.80	2,211.64	408.93	-189.41	450.45	1.15	0.21	-2.32	
2,394.00	29.200	334.20	2,294.49	450.15	-210.87	496.92	1.76	-0.21	3.58	
2,490.00	29.300	333.00	2,378.25	492.16	-231.73	543.83	0.62	0.10	-1.25	
2,585.00	29.500	331.70	2,461.02	533.47	-253.37	590.45	0.70	0.21	-1.37	
2,682.00	28.900	335.20	2,545.70	575.78	-274.53	637.76	1.87	-0.62	3.61	
2,776.00	28.900	334.50	2,627.99	616.90	-293.83	683.17	0.36	0.00	-0.74	
2,871.00	29.200	333.30	2,711.04	658.32	-314.13	729.30	0.69	0.32	-1.26	
2,967.00	29.200	332.00	2,794.84	699.92	-335.64	776.12	0.66	0.00	-1.35	
3,062.00	28.800	330.70	2,877.93	740.33	-357.72	822.15	0.79	-0.42	-1.37	
3,157.00	29.600	333.10	2,960.86	781.22	-379.54	868.47	1.49	0.84	2.53	
3,253.00	29.700	329.70	3,044.30	822.90	-402.26	915.92	1.75	0.10	-3.54	
3,348.00	29.100	332.80	3,127.07	863.77	-424.70	962.50	1.72	-0.63	3.26	
3,443.00	28.000	333.30	3,210.52	904.23	-445.28	1,007.90	1.18	-1.16	0.53	
3,539.00	27.000	331.80	3,295.67	943.57	-465.70	1,052.22	1.27	-1.04	-1.56	
3,634.00	26.600	334.20	3,380.47	981.73	-485.15	1,095.05	1.21	-0.42	2.53	
3,730.00	25.400	336.20	3,466.75	1,019.92	-502.81	1,137.10	1.55	-1.25	2.08	
3,825.00	25.400	336.70	3,552.57	1,057.27	-519.09	1,177.80	0.23	0.00	0.53	
3,920.00	22.700	334.20	3,639.31	1,092.50	-535.13	1,216.47	3.04	-2.84	-2.63	
4,016.00	23.600	334.00	3,727.58	1,126.45	-551.62	1,254.21	0.94	0.94	-0.21	
4,111.00	24.400	335.20	3,814.37	1,161.35	-568.19	1,292.84	0.99	0.84	1.26	
4,206.00	22.000	331.40	3,901.69	1,194.79	-584.94	1,330.24	2.98	-2.53	-4.00	
4,302.00	19.100	330.30	3,991.57	1,224.23	-601.33	1,363.90	3.05	-3.02	-1.15	
4,397.00	16.300	329.30	4,082.06	1,249.20	-615.84	1,392.73	2.96	-2.95	-1.05	
4,492.00	13.600	328.00	4,173.84	1,270.14	-628.57	1,417.15	2.86	-2.84	-1.37	
4,588.00	12.600	326.50	4,267.34	1,288.44	-640.33	1,438.78	1.10	-1.04	-1.56	
4,683.00	8.600	323.90	4,360.70	1,302.83	-650.24	1,456.08	4.24	-4.21	-2.74	
4,779.00	9.100	337.20	4,455.57	1,315.63	-657.41	1,470.74	2.19	0.52	13.85	
4,874.00	6.600	338.90	4,549.67	1,327.65	-662.29	1,483.67	2.64	-2.63	1.79	
4,969.00	3.800	351.00	4,644.27	1,335.85	-664.75	1,492.11	3.15	-2.95	12.74	
5,065.00	3.800	359.70	4,740.06	1,342.18	-665.26	1,497.99	0.60	0.00	9.06	
5,160.00	3.100	357.50	4,834.89	1,347.89	-665.39	1,503.16	0.75	-0.74	-2.32	
5,255.00	2.600	359.20	4,929.77	1,352.61	-665.53	1,507.44	0.53	-0.53	1.79	
5,350.00	2.200	3.10	5,024.69	1,356.59	-665.46	1,510.97	0.45	-0.42	4.11	
5,446.00	1.700	8.90	5,120.63	1,359.83	-665.14	1,513.73	0.56	-0.52	6.04	

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5,541.00	1.700	30.20	5,215.59	1,362.44	-664.22	1,515.65	0.66	0.00	22.42	
5,636.00	1.800	314.20	5,310.56	1,364.70	-664.58	1,517.83	2.27	0.11	-80.00	
5,732.00	1.300	310.40	5,406.52	1,366.46	-666.49	1,520.25	0.53	-0.52	-3.96	
5,827.00	1.000	332.40	5,501.50	1,367.89	-667.69	1,522.07	0.56	-0.32	23.16	
5,922.00	1.100	300.40	5,596.49	1,369.09	-668.86	1,523.67	0.62	0.11	-33.68	
6,018.00	0.500	246.70	5,692.48	1,369.39	-670.04	1,524.46	0.94	-0.63	-55.94	
6,113.00	0.600	231.60	5,787.48	1,368.92	-670.81	1,524.39	0.18	0.11	-15.89	
6,209.00	0.400	225.30	5,883.47	1,368.37	-671.45	1,524.18	0.22	-0.21	-6.56	
6,304.00	0.500	268.00	5,978.47	1,368.12	-672.10	1,524.25	0.36	0.11	44.95	
6,399.00	0.600	270.50	6,073.46	1,368.11	-673.01	1,524.65	0.11	0.11	2.63	
6,495.00	0.400	243.80	6,169.46	1,367.97	-673.81	1,524.88	0.31	-0.21	-27.81	
6,590.00	0.800	172.10	6,264.46	1,367.16	-674.02	1,524.25	0.81	0.42	-75.47	
6,686.00	1.000	202.50	6,360.45	1,365.73	-674.25	1,523.07	0.53	0.21	31.67	
6,780.00	0.400	173.80	6,454.44	1,364.64	-674.52	1,522.23	0.72	-0.64	-30.53	
6,875.00	0.500	165.20	6,549.44	1,363.91	-674.38	1,521.51	0.13	0.11	-9.05	
6,970.00	0.700	102.60	6,644.43	1,363.38	-673.71	1,520.74	0.68	0.21	-65.89	
7,066.00	0.900	74.90	6,740.42	1,363.45	-672.41	1,520.22	0.45	0.21	-28.85	
7,161.00	0.600	94.80	6,835.41	1,363.60	-671.19	1,519.81	0.41	-0.32	20.95	
7,256.00	1.600	95.90	6,930.39	1,363.43	-669.38	1,518.84	1.05	1.05	1.16	
7,352.00	1.100	134.00	7,026.37	1,362.65	-667.38	1,517.25	1.04	-0.52	39.69	
7,447.00	0.400	115.60	7,121.36	1,361.87	-666.43	1,516.13	0.77	-0.74	-19.37	
7,543.00	0.800	60.60	7,217.36	1,362.06	-665.54	1,515.89	0.69	0.42	-57.29	
7,593.00	0.700	75.30	7,267.35	1,362.31	-664.94	1,515.85	0.43	-0.20	29.40	
7,640.00	0.700	75.30	7,314.35	1,362.45	-664.39	1,515.73	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)	
741.60	741.60	9 5/8"	0.80	1.02	

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,066.00	1,065.10	18.09	-3.11	As of Feb 25	
7,352.00	7,026.37	1,362.65	-667.38	As of Feb 28	
7,640.00	7,314.35	1,362.45	-664.39	Proj to TD @ 7640' MD	

Checked By: _____ Approved By: _____ Date: _____