

Bill Barrett Corp. (II)

Garfield County, Colorado [NAD83]

Kaufman 3 Pad

GGU Kaufman 12B-30-691

Wellbore #1

Design: Wellbore #1

Standard Survey Report

29 December, 2011

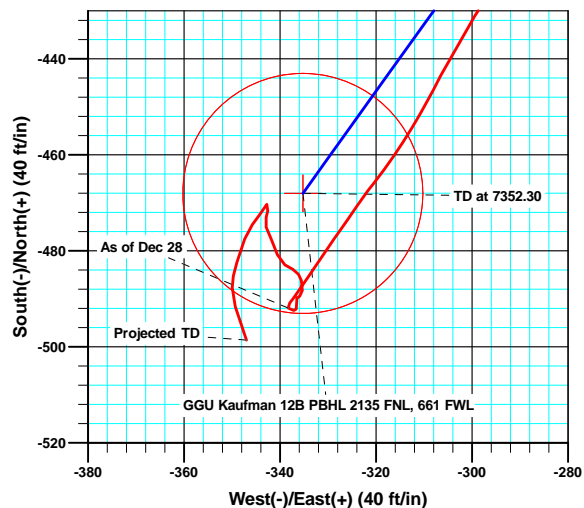
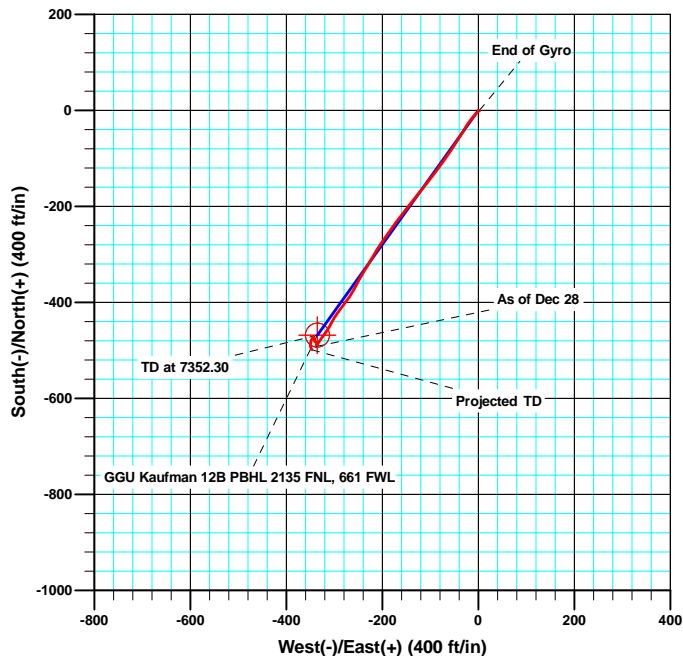
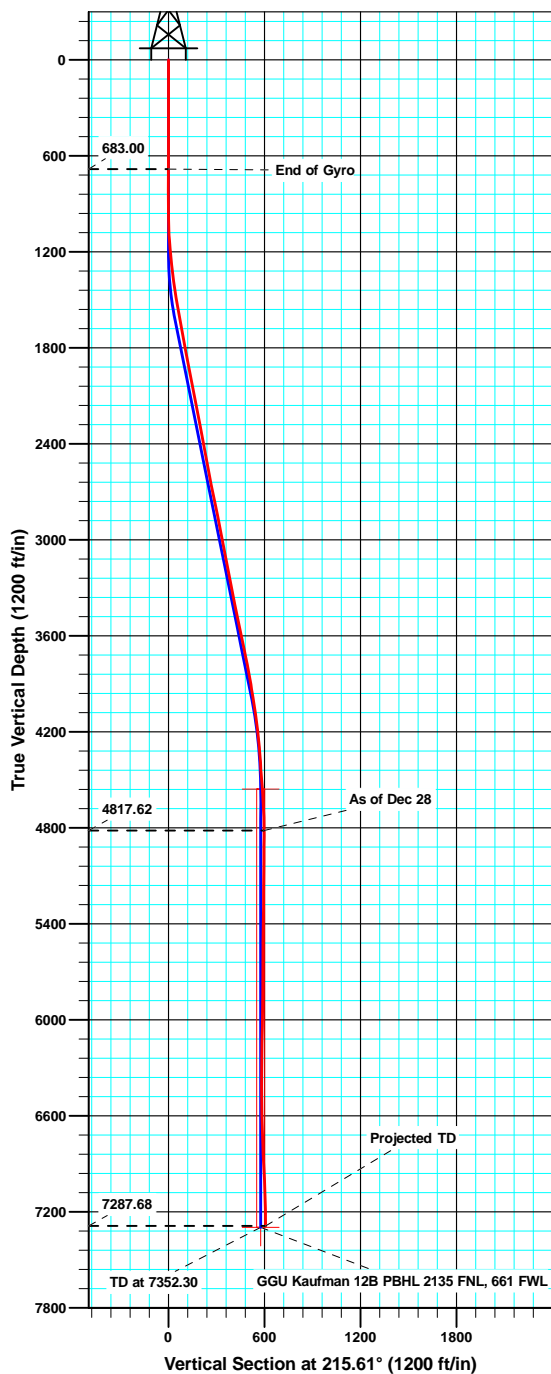


WELL DETAILS: GGU Kaufman 12B-30-691

US State Plane 1983 North American Datum 1983 Colorado Central Zone

+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1614271.01 2406766.11 39° 30' 3.97 N 107° 36' 9.04 W

Ground Level : 5835.00



Azimuths to True North
 Magnetic North: 10.18°
 Magnetic Field
 Strength: 52362.1snT
 Dip Angle: 65.84°
 Date: 3/15/2011
 Model: IGRF200510

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
683.00	683.00	0.420	37.09	-0.39	2.08	-0.90	2.35	End of Gyro
4817.62	4870.00	0.900	78.70	-491.96	-338.27	596.92	604.51	As of Dec 28
7287.68	7341.00	2.000	161.80	-498.60	-346.99	607.40	664.37	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well GGU Kaufman 12B-30-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5858.00ft
Site:	Kaufman 3 Pad	MD Reference:	KB @ 5858.00ft
Well:	GGU Kaufman 12B-30-691	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		Kaufman 3 Pad			
Site Position:		Northing:	1,614,368.45 usft	Latitude:	39° 30' 4.92 N
From:	Lat/Long	Easting:	2,406,696.40 usft	Longitude:	107° 36' 9.96 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.33 °

Well		GGU Kaufman 12B-30-691				
Well Position	+N/-S	0.00 ft	Northing:	1,614,271.00 usft	Latitude:	39° 30' 3.97 N
	+E/-W	0.00 ft	Easting:	2,406,766.11 usft	Longitude:	107° 36' 9.04 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,835.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/15/2011	10.18	65.84	52,362

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	215.61	

Survey Program	Date	12/29/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	683.00	Gyro (Wellbore #1)	MWD	MWD - Standard	
706.00	7,341.00	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	
100.00	0.180	132.93	100.00	-0.11	0.12	0.02	0.18	0.18	0.00	
200.00	0.250	109.52	200.00	-0.29	0.44	-0.02	0.11	0.07	-23.41	
300.00	0.180	116.79	300.00	-0.43	0.78	-0.11	0.07	-0.07	7.27	
400.00	0.190	92.06	400.00	-0.51	1.09	-0.22	0.08	0.01	-24.73	
500.00	0.210	102.81	500.00	-0.55	1.43	-0.38	0.04	0.02	10.75	
600.00	0.180	96.73	600.00	-0.61	1.77	-0.53	0.04	-0.03	-6.08	
683.00	0.420	37.09	683.00	-0.39	2.08	-0.90	0.44	0.29	-71.86	
706.00	0.420	37.09	706.00	-0.25	2.18	-1.07	0.00	0.00	0.00	
878.00	0.200	239.30	877.99	0.10	2.30	-1.42	0.35	-0.13	-91.74	

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Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5858.00ft
Site:	Kaufman 3 Pad	MD Reference:	KB @ 5858.00ft
Well:	GGU Kaufman 12B-30-691	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)
971.00	1.000	218.30	970.99	-0.62	1.66	-0.46	0.88	0.86	-22.58
1,066.00	2.500	230.20	1,065.94	-2.60	-0.45	2.37	1.62	1.58	12.53
1,161.00	4.700	223.90	1,160.75	-6.73	-4.74	8.23	2.35	2.32	-6.63
1,256.00	5.900	222.50	1,255.34	-13.13	-10.73	16.93	1.27	1.26	-1.47
1,351.00	7.000	214.50	1,349.74	-21.50	-17.31	27.56	1.49	1.16	-8.42
1,446.00	8.700	214.10	1,443.85	-32.23	-24.62	40.53	1.79	1.79	-0.42
1,541.00	9.900	211.60	1,537.60	-45.13	-32.93	55.86	1.33	1.26	-2.63
1,636.00	10.500	212.90	1,631.09	-59.36	-41.91	72.66	0.68	0.63	1.37
1,731.00	10.300	211.20	1,724.53	-73.89	-51.01	89.77	0.39	-0.21	-1.79
1,827.00	10.400	215.00	1,818.97	-88.33	-60.43	106.99	0.72	0.10	3.96
1,922.00	11.000	215.90	1,912.32	-102.69	-70.66	124.63	0.66	0.63	0.95
2,017.00	10.500	213.90	2,005.65	-117.22	-80.80	142.35	0.66	-0.53	-2.11
2,112.00	11.200	219.20	2,098.96	-131.55	-91.46	160.21	1.28	0.74	5.58
2,207.00	11.100	219.60	2,192.16	-145.75	-103.12	178.54	0.13	-0.11	0.42
2,302.00	11.000	218.30	2,285.40	-159.91	-114.57	196.72	0.28	-0.11	-1.37
2,397.00	10.900	216.80	2,378.67	-174.21	-125.57	214.75	0.32	-0.11	-1.58
2,492.00	10.500	218.20	2,472.02	-188.21	-136.30	232.38	0.50	-0.42	1.47
2,587.00	10.800	217.80	2,565.38	-202.05	-147.11	249.92	0.33	0.32	-0.42
2,682.00	10.800	219.60	2,658.70	-215.94	-158.24	267.69	0.36	0.00	1.89
2,778.00	11.600	215.30	2,752.88	-230.74	-169.55	286.32	1.20	0.83	-4.48
2,873.00	11.800	217.00	2,845.90	-246.30	-180.91	305.58	0.42	0.21	1.79
2,968.00	11.200	214.20	2,938.99	-261.69	-191.94	324.51	0.86	-0.63	-2.95
3,063.00	10.500	214.70	3,032.30	-276.43	-202.06	342.39	0.74	-0.74	0.53
3,158.00	10.200	211.10	3,125.75	-290.75	-211.33	359.43	0.75	-0.32	-3.79
3,253.00	11.600	211.30	3,219.03	-306.12	-220.64	377.34	1.47	1.47	0.21
3,348.00	11.200	210.40	3,312.16	-322.24	-230.27	396.05	0.46	-0.42	-0.95
3,443.00	12.000	211.60	3,405.22	-338.60	-240.11	415.09	0.88	0.84	1.26
3,538.00	11.700	208.10	3,498.20	-355.51	-249.82	434.50	0.82	-0.32	-3.68
3,633.00	11.600	208.10	3,591.24	-372.44	-258.86	453.51	0.11	-0.11	0.00
3,729.00	11.800	215.40	3,685.25	-388.95	-269.09	472.90	1.55	0.21	7.60
3,824.00	10.800	216.40	3,778.41	-404.03	-280.00	491.51	1.07	-1.05	1.05
3,919.00	10.500	216.90	3,871.77	-418.12	-290.48	509.07	0.33	-0.32	0.53
4,014.00	8.600	211.90	3,965.45	-431.07	-299.43	524.81	2.18	-2.00	-5.26
4,109.00	8.700	207.40	4,059.37	-443.48	-306.49	539.01	0.72	0.11	-4.74
4,204.00	7.300	211.10	4,153.45	-455.03	-312.92	552.14	1.57	-1.47	3.89
4,299.00	5.700	218.30	4,247.83	-463.90	-318.96	562.87	1.89	-1.68	7.58
4,394.00	4.500	213.90	4,342.46	-470.70	-323.96	571.31	1.33	-1.26	-4.63
4,489.00	3.000	215.50	4,437.25	-475.82	-327.48	577.52	1.58	-1.58	1.68
4,584.00	4.700	214.70	4,532.03	-481.04	-331.14	583.90	1.79	1.79	-0.84
4,680.00	3.900	213.70	4,627.76	-486.99	-335.19	591.09	0.84	-0.83	-1.04
4,775.00	1.900	219.70	4,722.63	-490.89	-337.99	595.89	2.13	-2.11	6.32
4,870.00	0.900	78.70	4,817.62	-491.96	-338.27	596.92	2.80	-1.05	-148.42
4,965.00	0.900	145.00	4,912.61	-492.42	-337.11	596.62	1.04	0.00	69.79

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Design:	Wellbore #1	Database:	Compass VM

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5,060.00	1.100	2.90	5,007.60	-492.12	-336.63	596.10	1.99	0.21	-149.58	
5,155.00	0.700	8.60	5,102.59	-490.64	-336.50	594.82	0.43	-0.42	6.00	
5,250.00	0.300	353.70	5,197.59	-489.82	-336.44	594.12	0.44	-0.42	-15.68	
5,345.00	0.700	82.50	5,292.59	-489.49	-335.89	593.53	0.80	0.42	93.47	
5,440.00	1.400	358.50	5,387.57	-488.26	-335.35	592.21	1.58	0.74	-88.42	
5,535.00	1.100	350.40	5,482.55	-486.20	-335.53	590.64	0.37	-0.32	-8.53	
5,631.00	0.700	311.20	5,578.54	-484.90	-336.13	589.94	0.74	-0.42	-40.83	
5,726.00	1.200	312.80	5,673.53	-483.84	-337.29	589.76	0.53	0.53	1.68	
5,821.00	1.200	284.00	5,768.51	-482.93	-338.99	590.00	0.63	0.00	-30.32	
5,916.00	2.400	343.20	5,863.46	-480.78	-340.53	589.15	2.17	1.26	62.32	
6,011.00	1.800	331.10	5,958.40	-477.57	-341.82	587.30	0.78	-0.63	-12.74	
6,106.00	1.500	344.60	6,053.36	-475.07	-342.87	585.87	0.51	-0.32	14.21	
6,201.00	1.100	21.00	6,148.34	-473.02	-342.88	584.21	0.94	-0.42	38.32	
6,296.00	0.600	359.80	6,243.33	-471.67	-342.55	582.92	0.61	-0.53	-22.32	
6,391.00	0.500	348.00	6,338.32	-470.77	-342.64	582.24	0.16	-0.11	-12.42	
6,486.00	0.000	153.80	6,433.32	-470.36	-342.73	581.96	0.53	-0.53	0.00	
6,582.00	0.800	219.00	6,529.32	-470.88	-343.15	582.63	0.83	0.83	0.00	
6,677.00	1.400	212.00	6,624.30	-472.38	-344.18	584.45	0.65	0.63	-7.37	
6,772.00	1.800	219.10	6,719.26	-474.52	-345.74	587.10	0.47	0.42	7.47	
6,867.00	2.400	199.20	6,814.20	-477.56	-347.33	590.49	0.99	0.63	-20.95	
6,962.00	3.800	198.20	6,909.06	-482.43	-348.97	595.41	1.47	1.47	-1.05	
7,057.00	2.700	179.80	7,003.91	-487.66	-349.95	600.22	1.58	-1.16	-19.37	
7,152.00	2.200	160.20	7,098.82	-491.61	-349.32	603.07	1.02	-0.53	-20.63	
7,247.00	2.500	162.20	7,193.74	-495.30	-348.07	605.34	0.33	0.32	2.11	
7,291.00	2.000	161.80	7,237.71	-496.94	-347.54	606.37	1.14	-1.14	-0.91	
7,341.00	2.000	161.80	7,287.68	-498.60	-346.99	607.40	0.00	0.00	0.00	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
683.00	683.00	-0.39	2.08	End of Gyro	
4,870.00	4,817.62	-491.96	-338.27	As of Dec 28	
7,341.00	7,287.68	-498.60	-346.99	Projected TD	

Checked By: _____ Approved By: _____ Date: _____