

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Kaufman Pad #2 NENW-25-692**

**Kaufman 22D-25-692**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**26 September, 2011**

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Kaufman 22D-25-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5863.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5863.00ft (Original Well Elev)
<b>Site:</b>	Kaufman Pad #2 NENW-25-692	<b>North Reference:</b>	Grid
<b>Well:</b>	Kaufman 22D-25-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	GARFIELD COUNTY, COLORADO NAD 1983		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

<b>Site</b>	Kaufman Pad #2 NENW-25-692		
<b>Site Position:</b>		<b>Northing:</b>	1,614,867.241 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,402,305.683 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	39° 30' 8.842 N
		<b>Longitude:</b>	107° 37' 6.1104 W
		<b>Grid Convergence:</b>	-1.34 °

<b>Well</b>	Kaufman 22D-25-692		
<b>Well Position</b>	<b>+N/-S</b>	-52.71 ft	<b>Northing:</b>
	<b>+E/-W</b>	-21.27 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>
			ft
			<b>Latitude:</b>
			39° 30' 8.316 N
			<b>Longitude:</b>
			107° 37' 6.3660 W
			<b>Ground Level:</b>
			5,840.00 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	12/31/2009	10.35	65.87	52,479

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	149.01

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
740.00	0.00	0.00	740.00	0.00	0.00	0.00	0.00	0.00	0.00	
959.56	5.49	149.01	959.22	-9.01	5.41	2.50	2.50	0.00	149.01	
4,501.21	5.49	149.01	4,484.63	-299.43	179.82	0.00	0.00	0.00	0.00	
4,867.13	0.00	0.00	4,850.00	-314.45	188.83	1.50	-1.50	0.00	180.00	
7,367.13	0.00	0.00	7,350.00	-314.45	188.83	0.00	0.00	0.00	0.00	Kaufman 22D-25-692

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<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5863.00ft (Original Well Elev)
<b>Site:</b>	Kaufman Pad #2 NENW-25-692	<b>North Reference:</b>	Grid
<b>Well:</b>	Kaufman 22D-25-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
740.00	0.00	0.00	740.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	1.50	149.01	799.99	-0.67	0.40	0.79	2.50	2.50	0.00	
900.00	4.00	149.01	899.87	-4.79	2.87	5.58	2.50	2.50	0.00	
959.56	5.49	149.01	959.22	-9.01	5.41	10.51	2.50	2.50	0.00	
1,000.00	5.49	149.01	999.48	-12.33	7.40	14.38	0.00	0.00	0.00	
1,100.00	5.49	149.01	1,099.02	-20.53	12.33	23.94	0.00	0.00	0.00	
1,200.00	5.49	149.01	1,198.56	-28.73	17.25	33.51	0.00	0.00	0.00	
1,300.00	5.49	149.01	1,298.10	-36.93	22.18	43.07	0.00	0.00	0.00	
1,400.00	5.49	149.01	1,397.64	-45.13	27.10	52.64	0.00	0.00	0.00	
1,500.00	5.49	149.01	1,497.19	-53.33	32.02	62.20	0.00	0.00	0.00	
1,600.00	5.49	149.01	1,596.73	-61.53	36.95	71.77	0.00	0.00	0.00	
1,700.00	5.49	149.01	1,696.27	-69.73	41.87	81.33	0.00	0.00	0.00	
1,800.00	5.49	149.01	1,795.81	-77.93	46.80	90.90	0.00	0.00	0.00	
1,900.00	5.49	149.01	1,895.35	-86.13	51.72	100.46	0.00	0.00	0.00	
2,000.00	5.49	149.01	1,994.89	-94.33	56.65	110.03	0.00	0.00	0.00	
2,100.00	5.49	149.01	2,094.44	-102.53	61.57	119.60	0.00	0.00	0.00	
2,200.00	5.49	149.01	2,193.98	-110.73	66.50	129.16	0.00	0.00	0.00	
2,300.00	5.49	149.01	2,293.52	-118.93	71.42	138.73	0.00	0.00	0.00	
2,400.00	5.49	149.01	2,393.06	-127.13	76.34	148.29	0.00	0.00	0.00	
2,500.00	5.49	149.01	2,492.60	-135.33	81.27	157.86	0.00	0.00	0.00	
2,600.00	5.49	149.01	2,592.14	-143.53	86.19	167.42	0.00	0.00	0.00	
2,700.00	5.49	149.01	2,691.68	-151.73	91.12	176.99	0.00	0.00	0.00	
2,800.00	5.49	149.01	2,791.23	-159.93	96.04	186.55	0.00	0.00	0.00	
2,900.00	5.49	149.01	2,890.77	-168.13	100.97	196.12	0.00	0.00	0.00	
3,000.00	5.49	149.01	2,990.31	-176.33	105.89	205.68	0.00	0.00	0.00	
3,100.00	5.49	149.01	3,089.85	-184.53	110.82	215.25	0.00	0.00	0.00	
3,200.00	5.49	149.01	3,189.39	-192.73	115.74	224.81	0.00	0.00	0.00	
3,300.00	5.49	149.01	3,288.93	-200.93	120.66	234.38	0.00	0.00	0.00	
3,400.00	5.49	149.01	3,388.47	-209.13	125.59	243.94	0.00	0.00	0.00	
3,500.00	5.49	149.01	3,488.02	-217.33	130.51	253.51	0.00	0.00	0.00	
3,600.00	5.49	149.01	3,587.56	-225.53	135.44	263.07	0.00	0.00	0.00	
3,700.00	5.49	149.01	3,687.10	-233.73	140.36	272.64	0.00	0.00	0.00	
3,800.00	5.49	149.01	3,786.64	-241.93	145.29	282.20	0.00	0.00	0.00	
3,900.00	5.49	149.01	3,886.18	-250.13	150.21	291.77	0.00	0.00	0.00	
4,000.00	5.49	149.01	3,985.72	-258.33	155.14	301.34	0.00	0.00	0.00	
4,100.00	5.49	149.01	4,085.26	-266.53	160.06	310.90	0.00	0.00	0.00	
4,200.00	5.49	149.01	4,184.81	-274.73	164.98	320.47	0.00	0.00	0.00	
4,300.00	5.49	149.01	4,284.35	-282.93	169.91	330.03	0.00	0.00	0.00	
4,400.00	5.49	149.01	4,383.89	-291.13	174.83	339.60	0.00	0.00	0.00	
4,500.00	5.49	149.01	4,483.43	-299.33	179.76	349.16	0.00	0.00	0.00	
4,501.21	5.49	149.01	4,484.63	-299.43	179.82	349.28	0.00	0.00	0.00	
4,600.00	4.01	149.01	4,583.08	-306.44	184.03	357.45	1.50	-1.50	0.00	
4,700.00	2.51	149.01	4,682.92	-311.31	186.95	363.14	1.50	-1.50	0.00	
4,800.00	1.01	149.01	4,782.87	-313.94	188.53	366.20	1.50	-1.50	0.00	
4,867.13	0.00	0.00	4,850.00	-314.45	188.83	366.79	1.50	-1.50	0.00	

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<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

### Planned 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)
4,900.00	0.00	0.00	4,882.87	-314.45	188.83	366.79	0.00	0.00	0.00
5,000.00	0.00	0.00	4,982.87	-314.45	188.83	366.79	0.00	0.00	0.00
5,100.00	0.00	0.00	5,082.87	-314.45	188.83	366.79	0.00	0.00	0.00
5,200.00	0.00	0.00	5,182.87	-314.45	188.83	366.79	0.00	0.00	0.00
5,300.00	0.00	0.00	5,282.87	-314.45	188.83	366.79	0.00	0.00	0.00
5,400.00	0.00	0.00	5,382.87	-314.45	188.83	366.79	0.00	0.00	0.00
5,500.00	0.00	0.00	5,482.87	-314.45	188.83	366.79	0.00	0.00	0.00
5,600.00	0.00	0.00	5,582.87	-314.45	188.83	366.79	0.00	0.00	0.00
5,700.00	0.00	0.00	5,682.87	-314.45	188.83	366.79	0.00	0.00	0.00
5,800.00	0.00	0.00	5,782.87	-314.45	188.83	366.79	0.00	0.00	0.00
5,900.00	0.00	0.00	5,882.87	-314.45	188.83	366.79	0.00	0.00	0.00
6,000.00	0.00	0.00	5,982.87	-314.45	188.83	366.79	0.00	0.00	0.00
6,100.00	0.00	0.00	6,082.87	-314.45	188.83	366.79	0.00	0.00	0.00
6,200.00	0.00	0.00	6,182.87	-314.45	188.83	366.79	0.00	0.00	0.00
6,300.00	0.00	0.00	6,282.87	-314.45	188.83	366.79	0.00	0.00	0.00
6,400.00	0.00	0.00	6,382.87	-314.45	188.83	366.79	0.00	0.00	0.00
6,500.00	0.00	0.00	6,482.87	-314.45	188.83	366.79	0.00	0.00	0.00
6,600.00	0.00	0.00	6,582.87	-314.45	188.83	366.79	0.00	0.00	0.00
6,700.00	0.00	0.00	6,682.87	-314.45	188.83	366.79	0.00	0.00	0.00
6,800.00	0.00	0.00	6,782.87	-314.45	188.83	366.79	0.00	0.00	0.00
6,900.00	0.00	0.00	6,882.87	-314.45	188.83	366.79	0.00	0.00	0.00
7,000.00	0.00	0.00	6,982.87	-314.45	188.83	366.79	0.00	0.00	0.00
7,100.00	0.00	0.00	7,082.87	-314.45	188.83	366.79	0.00	0.00	0.00
7,200.00	0.00	0.00	7,182.87	-314.45	188.83	366.79	0.00	0.00	0.00
7,300.00	0.00	0.00	7,282.87	-314.45	188.83	366.79	0.00	0.00	0.00
7,367.13	0.00	0.00	7,350.00	-314.45	188.83	366.79	0.00	0.00	0.00

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,421.62	3,410.00	Mesaverde		0.00	
4,235.36	4,220.00	Price Coal		0.00	
4,917.13	4,900.00	Top Gas		0.00	
7,067.13	7,050.00	Rollins		0.00	
7,367.13	7,350.00	TD		0.00	