

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Kaufman Pad #1 NESW-25-692**

**Kaufman 22C-25-692**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**16 March, 2010**

# BBC

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Kaufman 22C-25-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5936.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5936.00ft (Original Well Elev)
<b>Site:</b>	Kaufman Pad #1 NESW-25-692	<b>North Reference:</b>	True
<b>Well:</b>	Kaufman 22C-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		

Site						Kaufman Pad #1 NESW-25-692							
Site Position: From: Position Uncertainty:			Lat/Long  0.00 ft			Northing:		1,612,955.301 ft		Latitude:		39° 29' 49.949 N	
						Easting:		2,402,300.892 ft		Longitude:		107° 37' 5.6028 W	
						Slot Radius:		"		Grid Convergence:		-1.34 °	

Well	Kaufman 22C-25-692					
Well Position	+N-S	-71.77 ft	Northing:	1,612,889.387 ft	Latitude:	39° 29' 49.239 N
	+E-W	-250.03 ft	Easting:	2,402,049.261 ft	Longitude:	107° 37' 8.7924 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	0.00 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>
	BGGM2007	3/16/2010	10.40	65.83	52,403

<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	16.88

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,778.87	25.72	16.88	1,744.66	217.31	65.93	2.50	2.50	0.00	16.88	
3,490.00	25.72	16.88	3,286.23	927.96	281.51	0.00	0.00	0.00	0.00	
5,204.79	0.00	0.00	4,944.00	1,290.15	391.39	1.50	-1.50	0.00	180.00	
7,704.79	0.00	0.00	7,444.00	1,290.15	391.39	0.00	0.00	0.00	0.00	Kaufman 22C-25-692

# BBC

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Kaufman 22C-25-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5936.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5936.00ft (Original Well Elev)
<b>Site:</b>	Kaufman Pad #1 NESW-25-692	<b>North Reference:</b>	True
<b>Well:</b>	Kaufman 22C-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
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
800.00	1.25	16.88	800.00	0.52	0.16	0.55	2.50	2.50	0.00
900.00	3.75	16.88	899.89	4.70	1.42	4.91	2.50	2.50	0.00
1,000.00	6.25	16.88	999.50	13.04	3.95	13.62	2.50	2.50	0.00
1,100.00	8.75	16.88	1,098.64	25.52	7.74	26.67	2.50	2.50	0.00
1,200.00	11.25	16.88	1,197.11	42.14	12.78	44.04	2.50	2.50	0.00
1,300.00	13.75	16.88	1,294.74	62.85	19.07	65.68	2.50	2.50	0.00
1,400.00	16.25	16.88	1,391.32	87.62	26.58	91.56	2.50	2.50	0.00
1,500.00	18.75	16.88	1,486.69	116.39	35.31	121.63	2.50	2.50	0.00
1,600.00	21.25	16.88	1,580.65	149.12	45.24	155.83	2.50	2.50	0.00
1,700.00	23.75	16.88	1,673.03	185.73	56.34	194.09	2.50	2.50	0.00
1,778.87	25.72	16.88	1,744.66	217.31	65.93	227.09	2.50	2.50	0.00
1,800.00	25.72	16.88	1,763.69	226.09	68.59	236.26	0.00	0.00	0.00
1,900.00	25.72	16.88	1,853.78	267.62	81.19	279.66	0.00	0.00	0.00
2,000.00	25.72	16.88	1,943.88	309.15	93.79	323.06	0.00	0.00	0.00
2,100.00	25.72	16.88	2,033.97	350.68	106.38	366.46	0.00	0.00	0.00
2,200.00	25.72	16.88	2,124.06	392.21	118.98	409.86	0.00	0.00	0.00
2,300.00	25.72	16.88	2,214.15	433.74	131.58	453.26	0.00	0.00	0.00
2,400.00	25.72	16.88	2,304.24	475.27	144.18	496.66	0.00	0.00	0.00
2,500.00	25.72	16.88	2,394.33	516.81	156.78	540.06	0.00	0.00	0.00
2,600.00	25.72	16.88	2,484.42	558.34	169.38	583.46	0.00	0.00	0.00
2,700.00	25.72	16.88	2,574.51	599.87	181.98	626.86	0.00	0.00	0.00
2,800.00	25.72	16.88	2,664.61	641.40	194.58	670.26	0.00	0.00	0.00
2,900.00	25.72	16.88	2,754.70	682.93	207.18	713.66	0.00	0.00	0.00
3,000.00	25.72	16.88	2,844.79	724.46	219.78	757.06	0.00	0.00	0.00
3,100.00	25.72	16.88	2,934.88	765.99	232.38	800.46	0.00	0.00	0.00
3,200.00	25.72	16.88	3,024.97	807.52	244.97	843.86	0.00	0.00	0.00
3,300.00	25.72	16.88	3,115.06	849.06	257.57	887.26	0.00	0.00	0.00
3,400.00	25.72	16.88	3,205.15	890.59	270.17	930.66	0.00	0.00	0.00
3,490.00	25.72	16.88	3,286.23	927.96	281.51	969.72	0.00	0.00	0.00
3,500.00	25.57	16.88	3,295.25	932.11	282.77	974.05	1.50	-1.50	0.00
3,600.00	24.07	16.88	3,386.01	972.28	294.96	1,016.03	1.50	-1.50	0.00
3,674.15	22.96	16.88	3,454.00	1,000.59	303.54	1,045.62	1.50	-1.50	0.00
Mesaverde									
3,700.00	22.57	16.88	3,477.84	1,010.16	306.45	1,055.62	1.50	-1.50	0.00
3,800.00	21.07	16.88	3,570.67	1,045.73	317.24	1,092.79	1.50	-1.50	0.00
3,900.00	19.57	16.88	3,664.44	1,078.96	327.32	1,127.52	1.50	-1.50	0.00
4,000.00	18.07	16.88	3,759.09	1,109.84	336.69	1,159.78	1.50	-1.50	0.00
4,100.00	16.57	16.88	3,854.55	1,138.33	345.33	1,189.55	1.50	-1.50	0.00
4,200.00	15.07	16.88	3,950.76	1,164.42	353.24	1,216.82	1.50	-1.50	0.00
4,300.00	13.57	16.88	4,047.65	1,188.09	360.42	1,241.55	1.50	-1.50	0.00
4,400.00	12.07	16.88	4,145.15	1,209.32	366.87	1,263.74	1.50	-1.50	0.00
4,500.00	10.57	16.88	4,243.21	1,228.11	372.57	1,283.38	1.50	-1.50	0.00
4,582.03	9.34	16.88	4,324.00	1,241.68	376.68	1,297.56	1.50	-1.50	0.00

**BBC**  
Planning Report

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<b>Site:</b>	Kaufman Pad #1 NESW-25-692	<b>North Reference:</b>	True
<b>Well:</b>	Kaufman 22C-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)
<b>Price Coal</b>									
4,600.00	9.07	16.88	4,341.74	1,244.43	377.52	1,300.43	1.50	-1.50	0.00
4,700.00	7.57	16.88	4,440.68	1,258.28	381.72	1,314.91	1.50	-1.50	0.00
4,800.00	6.07	16.88	4,539.97	1,269.65	385.17	1,326.78	1.50	-1.50	0.00
4,900.00	4.57	16.88	4,639.54	1,278.52	387.86	1,336.06	1.50	-1.50	0.00
5,000.00	3.07	16.88	4,739.31	1,284.90	389.79	1,342.72	1.50	-1.50	0.00
5,004.69	3.00	16.88	4,744.00	1,285.14	389.87	1,342.97	1.50	-1.50	0.00
<b>Top Gas</b>									
5,100.00	1.57	16.88	4,839.23	1,288.78	390.97	1,346.78	1.50	-1.50	0.00
5,200.00	0.07	16.88	4,939.21	1,290.15	391.39	1,348.21	1.50	-1.50	0.00
5,204.79	0.00	0.00	4,944.00	1,290.15	391.39	1,348.21	1.50	-1.50	0.00
5,300.00	0.00	0.00	5,039.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
5,400.00	0.00	0.00	5,139.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
5,500.00	0.00	0.00	5,239.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
5,600.00	0.00	0.00	5,339.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
5,700.00	0.00	0.00	5,439.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
5,800.00	0.00	0.00	5,539.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
5,900.00	0.00	0.00	5,639.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
6,000.00	0.00	0.00	5,739.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
6,100.00	0.00	0.00	5,839.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
6,200.00	0.00	0.00	5,939.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
6,300.00	0.00	0.00	6,039.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
6,400.00	0.00	0.00	6,139.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
6,500.00	0.00	0.00	6,239.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
6,600.00	0.00	0.00	6,339.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
6,700.00	0.00	0.00	6,439.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
6,800.00	0.00	0.00	6,539.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
6,900.00	0.00	0.00	6,639.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
7,000.00	0.00	0.00	6,739.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
7,100.00	0.00	0.00	6,839.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
7,200.00	0.00	0.00	6,939.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
7,300.00	0.00	0.00	7,039.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
7,400.00	0.00	0.00	7,139.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
7,404.79	0.00	0.00	7,144.00	1,290.15	391.39	1,348.21	0.00	0.00	0.00
<b>Rollins</b>									
7,500.00	0.00	0.00	7,239.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
7,600.00	0.00	0.00	7,339.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
7,700.00	0.00	0.00	7,439.21	1,290.15	391.39	1,348.21	0.00	0.00	0.00
7,704.79	0.00	0.00	7,444.00	1,290.15	391.39	1,348.21	0.00	0.00	0.00
<b>TD</b>									

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
750.00	750.00	9 5/8"	9-5/8	12-1/4

# BBC

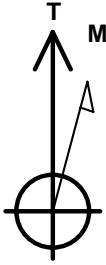
## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Kaufman 22C-25-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5936.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5936.00ft (Original Well Elev)
<b>Site:</b>	Kaufman Pad #1 NESW-25-692	<b>North Reference:</b>	True
<b>Well:</b>	Kaufman 22C-25-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,674.15	3,454.00	Mesaverde		0.00		
4,582.03	4,324.00	Price Coal		0.00		
5,004.69	4,744.00	Top Gas		0.00		
7,404.79	7,144.00	Rollins		0.00		
7,704.79	7,444.00	TD		0.00		

## WELL DETAILS: Kaufman 22C-25-692

Ground Level: 0.00  
 +N/-S+E/-W Northing Easting Latitude Longitude Slot  
 0.00 0.00 1612889.387 2402049.239 29° 49.239' N 107° 13' 8.7924 W



Azimuths to True North  
 Magnetic North: 10.40°

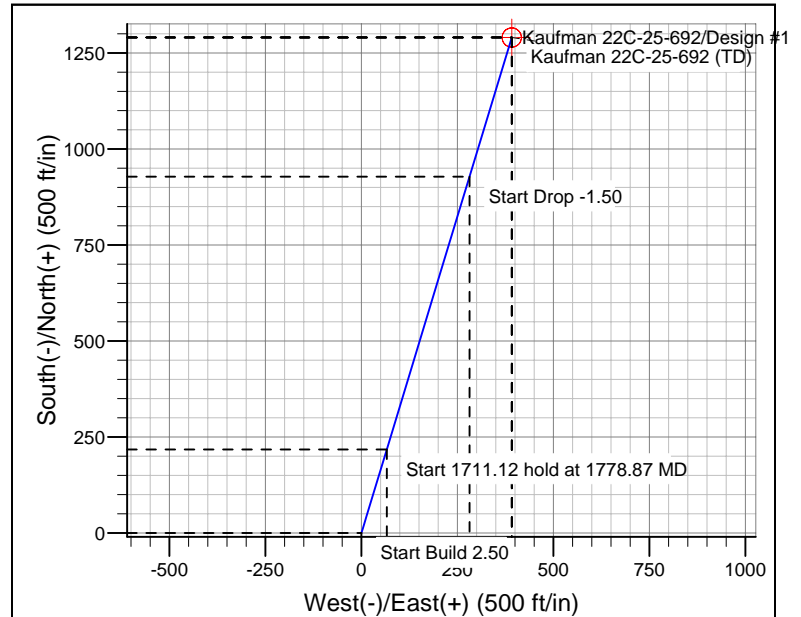
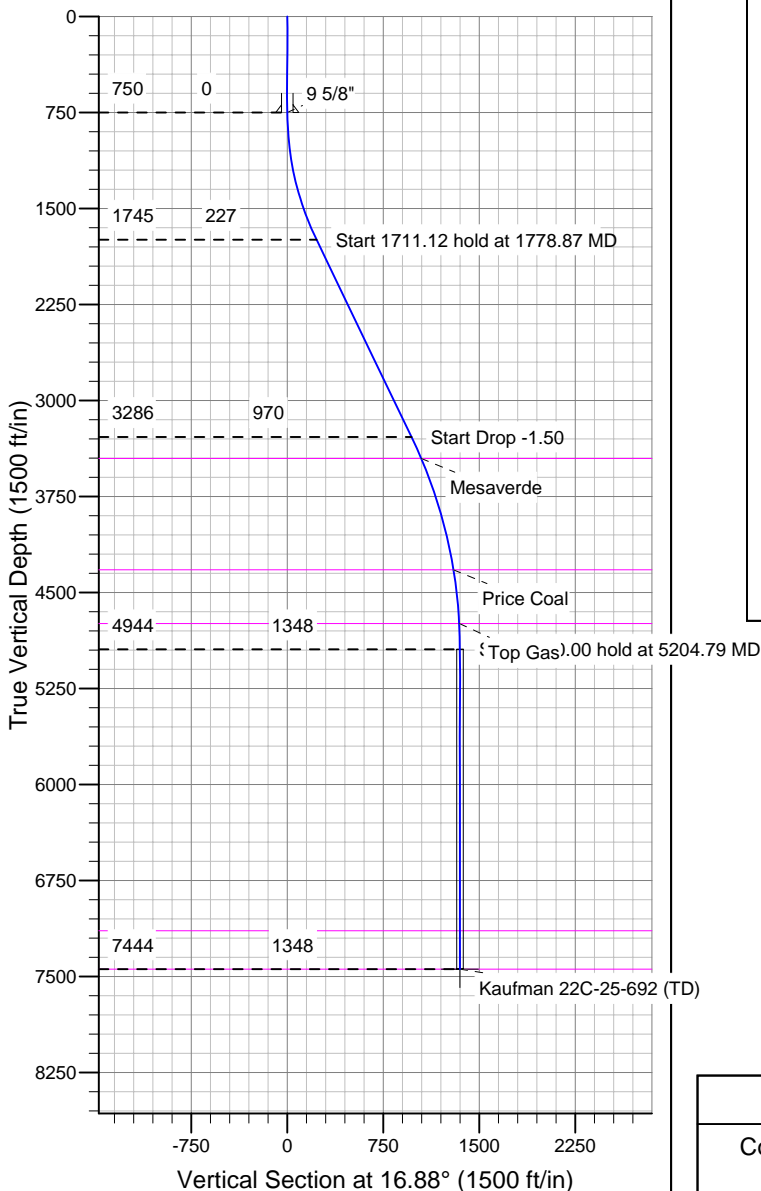
Magnetic Field  
 Strength: 52402.5nT  
 Dip Angle: 65.83°  
 Date: 3/16/2010  
 Model: BGGM2007

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	2750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	
	1778.87	25.72	16.881744.66	217.31	65.93	2.50	16.88	227.09		
	3490.00	25.72	16.883286.23	927.96	281.51	0.00	0.00	969.72		
	5204.79	0.00	0.004944.001	290.15	391.39	1.50	180.00	348.21		
	7704.79	0.00	0.007444.001	290.15	391.39	0.00	0.00	348.21		Kaufman 22C-25-692 (TD)

## WELLBORE TARGET DETAILS

Name TVD +N/-S +E/-W Shape  
 Kaufman 22C-25-692 (TD) 290.15 391.39 Circle (Radius: 25.00)



## CASING DETAILS

TVD MD Name Size  
 750.00 750.00 9 5/8" 9-5/8"

## FORMATION TOP DETAILS

TVDP	MD	Formation
3454.00	674.15	Mesaverde
4324.00	582.03	Price Coal
4744.00	500.69	Top Gas
7144.00	740.79	Rollins
7444.00	7704.79	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Kaufman 22C-25-692, True North  
 Vertical (TVD) Reference: WELL @ 5936.00ft (Original Well Elev)  
 Section (VS) Reference: Slot - (0.00N, 0.00E)  
 Measured Depth Reference: WELL @ 5936.00ft (Original Well Elev)  
 Calculation Method: Minimum Curvature