

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

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

**Kaufman 12C-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 12C-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 12C-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 12C-25-692					
Well Position	+N-S	-71.04 ft	Northing:	1,612,890.490 ft	Latitude:	39° 29' 49.247 N
	+E-W	-266.11 ft	Easting:	2,402,033.197 ft	Longitude:	107° 37' 8.9976 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	324.40	

<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	
780.00	0.00	0.00	780.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,824.65	26.12	324.40	1,788.85	190.25	-136.22	2.50	2.50	0.00	324.40	
3,967.12	26.12	324.40	3,712.58	957.06	-685.26	0.00	0.00	0.00	0.00	
5,708.21	0.00	0.00	5,394.00	1,274.14	-912.30	1.50	-1.50	0.00	180.00	
7,708.21	0.00	0.00	7,394.00	1,274.14	-912.30	0.00	0.00	0.00	0.00	Kaufman 12C-25-692

# BBC

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Kaufman 12C-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 12C-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
780.00	0.00	0.00	780.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
800.00	0.50	324.40	800.00	0.07	-0.05	0.09	2.50	2.50	0.00
900.00	3.00	324.40	899.95	2.55	-1.83	3.14	2.50	2.50	0.00
1,000.00	5.50	324.40	999.66	8.58	-6.14	10.55	2.50	2.50	0.00
1,100.00	8.00	324.40	1,098.96	18.13	-12.98	22.30	2.50	2.50	0.00
1,200.00	10.50	324.40	1,197.65	31.20	-22.34	38.38	2.50	2.50	0.00
1,300.00	13.00	324.40	1,295.55	47.76	-34.20	58.74	2.50	2.50	0.00
1,400.00	15.50	324.40	1,392.47	67.77	-48.53	83.35	2.50	2.50	0.00
1,500.00	18.00	324.40	1,488.21	91.20	-65.30	112.17	2.50	2.50	0.00
1,600.00	20.50	324.40	1,582.62	118.01	-84.49	145.14	2.50	2.50	0.00
1,700.00	23.00	324.40	1,675.49	148.13	-106.06	182.19	2.50	2.50	0.00
1,800.00	25.50	324.40	1,766.66	181.52	-129.97	223.26	2.50	2.50	0.00
1,824.65	26.12	324.40	1,788.85	190.25	-136.22	233.99	2.50	2.50	0.00
1,900.00	26.12	324.40	1,856.51	217.22	-155.53	267.16	0.00	0.00	0.00
2,000.00	26.12	324.40	1,946.30	253.01	-181.16	311.18	0.00	0.00	0.00
2,100.00	26.12	324.40	2,036.09	288.80	-206.78	355.20	0.00	0.00	0.00
2,200.00	26.12	324.40	2,125.88	324.59	-232.41	399.22	0.00	0.00	0.00
2,300.00	26.12	324.40	2,215.67	360.38	-258.04	443.23	0.00	0.00	0.00
2,400.00	26.12	324.40	2,305.46	396.17	-283.66	487.25	0.00	0.00	0.00
2,500.00	26.12	324.40	2,395.25	431.96	-309.29	531.27	0.00	0.00	0.00
2,600.00	26.12	324.40	2,485.04	467.75	-334.92	575.29	0.00	0.00	0.00
2,700.00	26.12	324.40	2,574.83	503.54	-360.54	619.31	0.00	0.00	0.00
2,800.00	26.12	324.40	2,664.62	539.33	-386.17	663.33	0.00	0.00	0.00
2,900.00	26.12	324.40	2,754.41	575.13	-411.80	707.35	0.00	0.00	0.00
3,000.00	26.12	324.40	2,844.20	610.92	-437.42	751.37	0.00	0.00	0.00
3,100.00	26.12	324.40	2,933.99	646.71	-463.05	795.39	0.00	0.00	0.00
3,200.00	26.12	324.40	3,023.78	682.50	-488.68	839.41	0.00	0.00	0.00
3,300.00	26.12	324.40	3,113.57	718.29	-514.30	883.43	0.00	0.00	0.00
3,400.00	26.12	324.40	3,203.36	754.08	-539.93	927.45	0.00	0.00	0.00
3,500.00	26.12	324.40	3,293.15	789.87	-565.56	971.47	0.00	0.00	0.00
3,600.00	26.12	324.40	3,382.94	825.66	-591.18	1,015.49	0.00	0.00	0.00
3,668.00	26.12	324.40	3,444.00	850.00	-608.61	1,045.42	0.00	0.00	0.00
Mesaverde									
3,700.00	26.12	324.40	3,472.73	861.45	-616.81	1,059.51	0.00	0.00	0.00
3,800.00	26.12	324.40	3,562.52	897.24	-642.44	1,103.52	0.00	0.00	0.00
3,900.00	26.12	324.40	3,652.31	933.03	-668.06	1,147.54	0.00	0.00	0.00
3,967.12	26.12	324.40	3,712.58	957.06	-685.26	1,177.09	0.00	0.00	0.00
4,000.00	25.62	324.40	3,742.17	968.72	-693.61	1,191.44	1.50	-1.50	0.00
4,100.00	24.12	324.40	3,832.89	1,002.92	-718.10	1,233.50	1.50	-1.50	0.00
4,200.00	22.62	324.40	3,924.68	1,035.17	-741.19	1,273.17	1.50	-1.50	0.00
4,300.00	21.12	324.40	4,017.48	1,065.46	-762.88	1,310.42	1.50	-1.50	0.00
4,400.00	19.62	324.40	4,111.22	1,093.77	-783.15	1,345.23	1.50	-1.50	0.00
4,500.00	18.12	324.40	4,205.84	1,120.07	-801.98	1,377.58	1.50	-1.50	0.00
4,571.50	17.05	324.40	4,274.00	1,137.63	-814.56	1,399.18	1.50	-1.50	0.00

# BBC

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<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 12C-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	16.62	324.40	4,301.28	1,144.34	-819.36	1,407.44	1.50	-1.50	0.00
4,700.00	15.12	324.40	4,397.46	1,166.58	-835.29	1,434.79	1.50	-1.50	0.00
4,800.00	13.62	324.40	4,494.33	1,186.76	-849.74	1,459.61	1.50	-1.50	0.00
4,900.00	12.12	324.40	4,591.81	1,204.88	-862.71	1,481.89	1.50	-1.50	0.00
5,000.00	10.62	324.40	4,689.84	1,220.91	-874.19	1,501.61	1.50	-1.50	0.00
5,100.00	9.12	324.40	4,788.36	1,234.85	-884.17	1,518.75	1.50	-1.50	0.00
5,156.29	8.28	324.40	4,844.00	1,241.78	-889.12	1,527.27	1.50	-1.50	0.00
<b>Top Gas</b>									
5,200.00	7.62	324.40	4,887.29	1,246.69	-892.64	1,533.31	1.50	-1.50	0.00
5,300.00	6.12	324.40	4,986.57	1,256.42	-899.61	1,545.28	1.50	-1.50	0.00
5,400.00	4.62	324.40	5,086.13	1,264.03	-905.06	1,554.65	1.50	-1.50	0.00
5,500.00	3.12	324.40	5,185.90	1,269.53	-908.99	1,561.40	1.50	-1.50	0.00
5,600.00	1.62	324.40	5,285.81	1,272.89	-911.41	1,565.54	1.50	-1.50	0.00
5,700.00	0.12	324.40	5,385.79	1,274.13	-912.29	1,567.06	1.50	-1.50	0.00
5,708.21	0.00	0.00	5,394.00	1,274.14	-912.30	1,567.07	1.50	-1.50	0.00
5,800.00	0.00	0.00	5,485.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
5,900.00	0.00	0.00	5,585.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
6,000.00	0.00	0.00	5,685.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
6,100.00	0.00	0.00	5,785.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
6,200.00	0.00	0.00	5,885.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
6,300.00	0.00	0.00	5,985.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
6,400.00	0.00	0.00	6,085.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
6,500.00	0.00	0.00	6,185.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
6,600.00	0.00	0.00	6,285.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
6,700.00	0.00	0.00	6,385.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
6,800.00	0.00	0.00	6,485.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
6,900.00	0.00	0.00	6,585.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
7,000.00	0.00	0.00	6,685.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
7,100.00	0.00	0.00	6,785.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
7,200.00	0.00	0.00	6,885.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
7,300.00	0.00	0.00	6,985.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
7,400.00	0.00	0.00	7,085.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
7,408.21	0.00	0.00	7,094.00	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
<b>Rollins</b>									
7,500.00	0.00	0.00	7,185.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
7,600.00	0.00	0.00	7,285.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
7,700.00	0.00	0.00	7,385.79	1,274.14	-912.30	1,567.07	0.00	0.00	0.00
7,708.21	0.00	0.00	7,394.00	1,274.14	-912.30	1,567.07	0.00	0.00	0.00

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
780.00	780.00	9 5/8"	9-5/8	12-1/4

# BBC

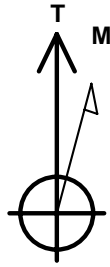
## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Kaufman 12C-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 12C-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 (°)	
3,668.00	3,444.00	Mesaverde		0.00		
4,571.50	4,274.00	Price Coal		0.00		
5,156.29	4,844.00	Top Gas		0.00		
7,408.21	7,094.00	Rollins		0.00		
	7,394.00	TD		0.00		

## WELL DETAILS: Kaufman 12C-25-692

Ground Level: 0.00  
 +N/-S+E/-W Northing Easting Latitude Longitude Slot  
 0.00 0.00 1612890.490 2402033.139 29° 49.247' N 107° 37' 8.9976 W



Azimuths to True North  
 Magnetic North: 10.40°

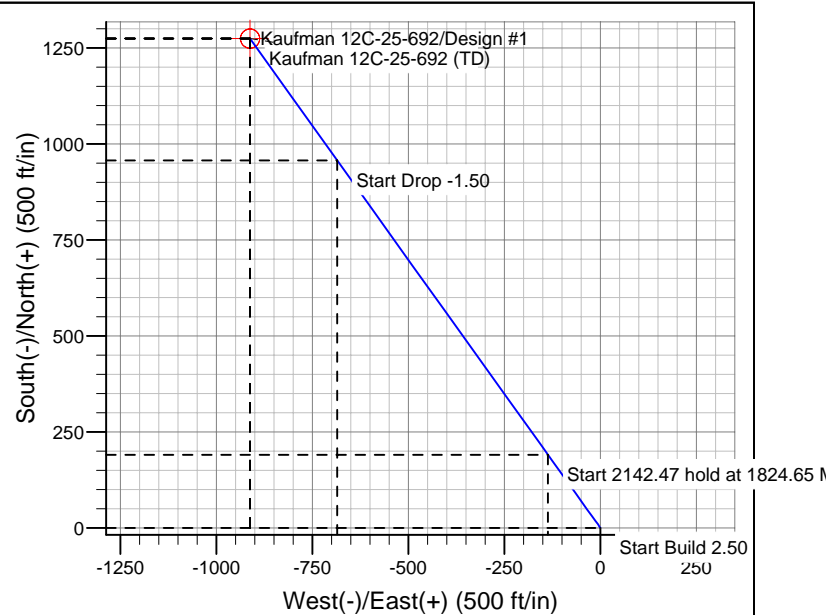
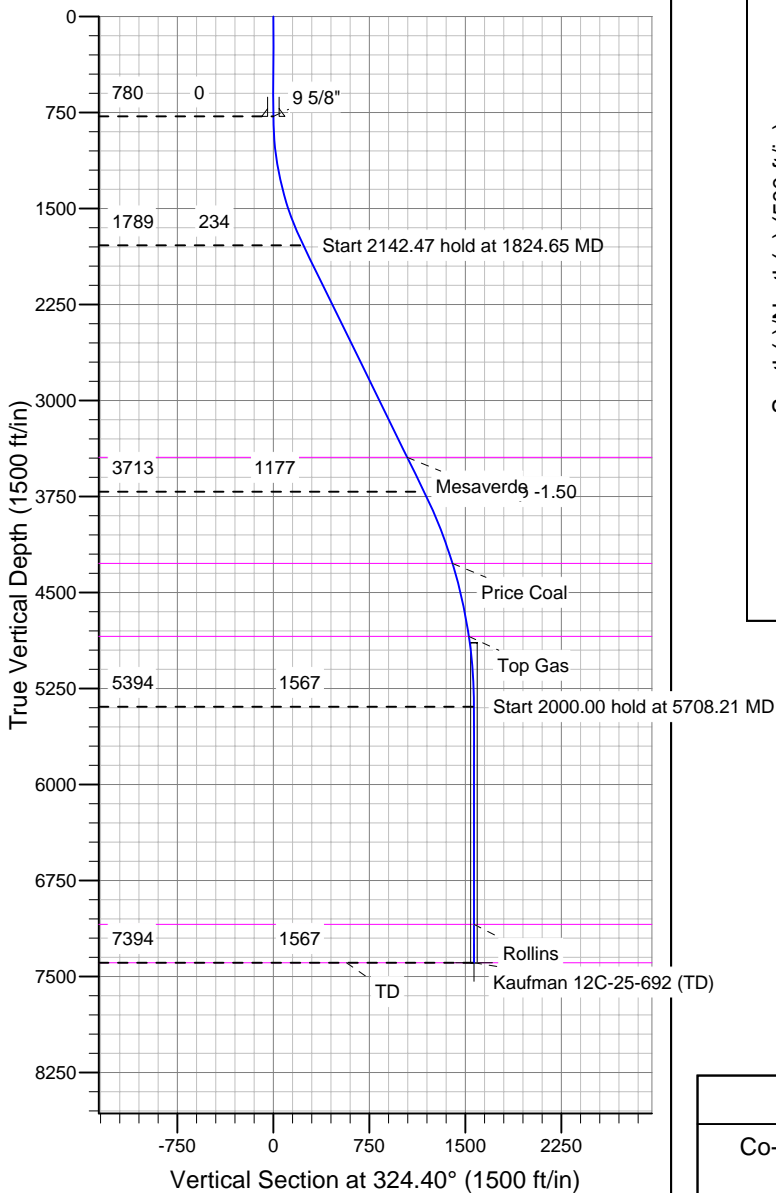
Magnetic Field  
 Strength: 52402.5nT  
 Dip Angle: 65.83°  
 Date: 3/16/2010  
 Model: BGGM2007

## 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	
	2780.00	0.00	0.00	780.00	0.00	0.00	0.00	0.00	0.00	
	1824.65	26.12	324.40	1788.85	190.25	-136.22	2.50	324.40	233.99	
	3067.12	26.12	324.40	3712.58	957.06	-685.26	0.00	0.00	177.09	
	5708.21	0.00	0.00	5394.00	1274.14	-912.30	1.50	180.00	1567.07	
	7094.00	0.00	0.00	7394.00	1274.14	-912.30	0.00	0.00	1567.07	Kaufman 12C-25-692 (TD)

## WELLBORE TARGET DETAILS

Name TVD +N/-S +E/-W Shape  
 Kaufman 12C-25-692 (TD) 7094.00 1274.14 -912.30 Circle (Radius: 25.00)



## CASING DETAILS

TVD MD Name Size  
 780.00 780.00 9 5/8" 9-5/8"

## FORMATION TOP DETAILS

TVDP	MD	Formation
3444.00	3668.00	TD
4274.00	4571.50	Mesaverde
4844.00	5156.29	Price Coal
7094.00	7408.21	Top Gas
		Rollins

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Kaufman 12C-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