

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Kaufman Pad #2 NENW-25-692

Kaufman 12D-25-692

Wellbore #1

Plan: Design #1

Standard Planning Report

22 September, 2011

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Kaufman 12D-25-692
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 5863.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 5863.00ft (Original Well Elev)
Site:	Kaufman Pad #2 NENW-25-692	North Reference:	Grid
Well:	Kaufman 12D-25-692	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

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

Well	Kaufman 12D-25-692		
Well Position	+N/-S	-47.41 ft	Northing:
	+E/-W	-29.61 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 8.366 N
			Longitude:
			107° 37' 6.4740 W
			Ground Level:
			5,840.00 ft

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

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	254.56

Plan Sections										
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	
760.00	0.00	0.00	760.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,638.48	21.96	254.56	1,617.12	-44.29	-160.31	2.50	2.50	0.00	254.56	
3,559.20	21.96	254.56	3,398.46	-235.59	-852.69	0.00	0.00	0.00	0.00	
5,023.32	0.00	0.00	4,827.00	-309.41	-1,119.87	1.50	-1.50	0.00	180.00	
7,523.32	0.00	0.00	7,327.00	-309.41	-1,119.87	0.00	0.00	0.00	0.00	Kaufman 12D-25-692

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Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 5863.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 5863.00ft (Original Well Elev)
Site:	Kaufman Pad #2 NENW-25-692	North Reference:	Grid
Well:	Kaufman 12D-25-692	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	
760.00	0.00	0.00	760.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	1.00	254.56	800.00	-0.09	-0.34	0.35	2.50	2.50	0.00	
900.00	3.50	254.56	899.91	-1.14	-4.12	4.27	2.50	2.50	0.00	
1,000.00	6.00	254.56	999.56	-3.34	-12.10	12.55	2.50	2.50	0.00	
1,100.00	8.50	254.56	1,098.75	-6.70	-24.26	25.17	2.50	2.50	0.00	
1,200.00	11.00	254.56	1,197.30	-11.21	-40.59	42.11	2.50	2.50	0.00	
1,300.00	13.50	254.56	1,295.02	-16.86	-61.04	63.32	2.50	2.50	0.00	
1,400.00	16.00	254.56	1,391.71	-23.64	-85.58	88.78	2.50	2.50	0.00	
1,500.00	18.50	254.56	1,487.21	-31.54	-114.16	118.43	2.50	2.50	0.00	
1,600.00	21.00	254.56	1,581.32	-40.54	-146.73	152.22	2.50	2.50	0.00	
1,638.48	21.96	254.56	1,617.12	-44.29	-160.31	166.31	2.50	2.50	0.00	
1,700.00	21.96	254.56	1,674.18	-50.42	-182.48	189.32	0.00	0.00	0.00	
1,800.00	21.96	254.56	1,766.92	-60.38	-218.53	226.72	0.00	0.00	0.00	
1,900.00	21.96	254.56	1,859.67	-70.34	-254.58	264.12	0.00	0.00	0.00	
2,000.00	21.96	254.56	1,952.41	-80.30	-290.63	301.52	0.00	0.00	0.00	
2,100.00	21.96	254.56	2,045.15	-90.26	-326.68	338.92	0.00	0.00	0.00	
2,200.00	21.96	254.56	2,137.90	-100.22	-362.73	376.32	0.00	0.00	0.00	
2,300.00	21.96	254.56	2,230.64	-110.18	-398.77	413.71	0.00	0.00	0.00	
2,400.00	21.96	254.56	2,323.38	-120.14	-434.82	451.11	0.00	0.00	0.00	
2,500.00	21.96	254.56	2,416.13	-130.10	-470.87	488.51	0.00	0.00	0.00	
2,600.00	21.96	254.56	2,508.87	-140.05	-506.92	525.91	0.00	0.00	0.00	
2,700.00	21.96	254.56	2,601.61	-150.01	-542.97	563.31	0.00	0.00	0.00	
2,800.00	21.96	254.56	2,694.36	-159.97	-579.02	600.71	0.00	0.00	0.00	
2,900.00	21.96	254.56	2,787.10	-169.93	-615.06	638.11	0.00	0.00	0.00	
3,000.00	21.96	254.56	2,879.84	-179.89	-651.11	675.51	0.00	0.00	0.00	
3,100.00	21.96	254.56	2,972.59	-189.85	-687.16	712.91	0.00	0.00	0.00	
3,200.00	21.96	254.56	3,065.33	-199.81	-723.21	750.30	0.00	0.00	0.00	
3,300.00	21.96	254.56	3,158.07	-209.77	-759.26	787.70	0.00	0.00	0.00	
3,400.00	21.96	254.56	3,250.82	-219.73	-795.31	825.10	0.00	0.00	0.00	
3,500.00	21.96	254.56	3,343.56	-229.69	-831.35	862.50	0.00	0.00	0.00	
3,559.20	21.96	254.56	3,398.46	-235.59	-852.69	884.64	0.00	0.00	0.00	
3,600.00	21.35	254.56	3,436.39	-239.60	-867.21	899.70	1.50	-1.50	0.00	
3,700.00	19.85	254.56	3,529.99	-248.97	-901.12	934.88	1.50	-1.50	0.00	
3,800.00	18.35	254.56	3,624.48	-257.68	-932.66	967.60	1.50	-1.50	0.00	
3,900.00	16.85	254.56	3,719.80	-265.73	-961.80	997.84	1.50	-1.50	0.00	
4,000.00	15.35	254.56	3,815.87	-273.12	-988.53	1,025.57	1.50	-1.50	0.00	
4,100.00	13.85	254.56	3,912.64	-279.83	-1,012.83	1,050.77	1.50	-1.50	0.00	
4,200.00	12.35	254.56	4,010.04	-285.87	-1,034.67	1,073.44	1.50	-1.50	0.00	
4,300.00	10.85	254.56	4,107.99	-291.22	-1,054.05	1,093.54	1.50	-1.50	0.00	
4,400.00	9.35	254.56	4,206.44	-295.89	-1,070.96	1,111.08	1.50	-1.50	0.00	
4,500.00	7.85	254.56	4,305.31	-299.87	-1,085.37	1,126.03	1.50	-1.50	0.00	
4,600.00	6.35	254.56	4,404.54	-303.16	-1,097.28	1,138.39	1.50	-1.50	0.00	
4,700.00	4.85	254.56	4,504.06	-305.76	-1,106.69	1,148.15	1.50	-1.50	0.00	
4,800.00	3.35	254.56	4,603.80	-307.67	-1,113.58	1,155.30	1.50	-1.50	0.00	
4,900.00	1.85	254.56	4,703.70	-308.87	-1,117.95	1,159.84	1.50	-1.50	0.00	

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Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 5863.00ft (Original Well Elev)
Site:	Kaufman Pad #2 NENW-25-692	North Reference:	Grid
Well:	Kaufman 12D-25-692	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
5,000.00	0.35	254.56	4,803.68	-309.39	-1,119.80	1,161.76	1.50	-1.50	0.00
5,023.32	0.00	0.00	4,827.00	-309.41	-1,119.87	1,161.83	1.50	-1.50	0.00
5,100.00	0.00	0.00	4,903.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
5,200.00	0.00	0.00	5,003.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
5,300.00	0.00	0.00	5,103.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
5,400.00	0.00	0.00	5,203.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
5,500.00	0.00	0.00	5,303.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
5,600.00	0.00	0.00	5,403.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
5,700.00	0.00	0.00	5,503.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
5,800.00	0.00	0.00	5,603.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
5,900.00	0.00	0.00	5,703.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
6,000.00	0.00	0.00	5,803.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
6,100.00	0.00	0.00	5,903.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
6,200.00	0.00	0.00	6,003.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
6,300.00	0.00	0.00	6,103.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
6,400.00	0.00	0.00	6,203.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
6,500.00	0.00	0.00	6,303.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
6,600.00	0.00	0.00	6,403.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
6,700.00	0.00	0.00	6,503.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
6,800.00	0.00	0.00	6,603.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
6,900.00	0.00	0.00	6,703.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
7,000.00	0.00	0.00	6,803.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
7,100.00	0.00	0.00	6,903.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
7,200.00	0.00	0.00	7,003.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
7,300.00	0.00	0.00	7,103.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
7,400.00	0.00	0.00	7,203.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
7,500.00	0.00	0.00	7,303.68	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00
7,523.32	0.00	0.00	7,327.00	-309.41	-1,119.87	1,161.83	0.00	0.00	0.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,546.84	3,387.00	Mesaverde		0.00	
4,390.43	4,197.00	Price Coal		0.00	
5,123.32	4,927.00	Top Gas		0.00	
7,223.32	7,027.00	Rollins		0.00	
7,523.32	7,327.00	TD		0.00	

WELL DETAILS: Kaufman 12D-25-692

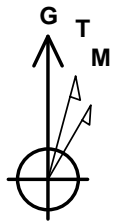
		Ground Level: 5840.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	1614819.830	2402276.070	39° 30' 8.366 N	107° 37' 6.4740 W		

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	
2	760.00	0.00	0.00	760.00	0.00	0.00	0.00	0.00	0.00	
3	1638.48	21.96	254.56	1617.12	-44.29	-160.31	2.50	254.56	166.31	
4	3559.20	21.96	254.56	3398.46	-235.59	-852.69	0.00	0.00	884.64	
5	5023.32	0.00	0.00	4827.00	-309.41	-1119.87	1.50	180.00	1161.83	
6	7523.32	0.00	0.00	7327.00	-309.41	-1119.87	0.00	0.00	1161.83	Kaufman 12D-25-692 (TD)

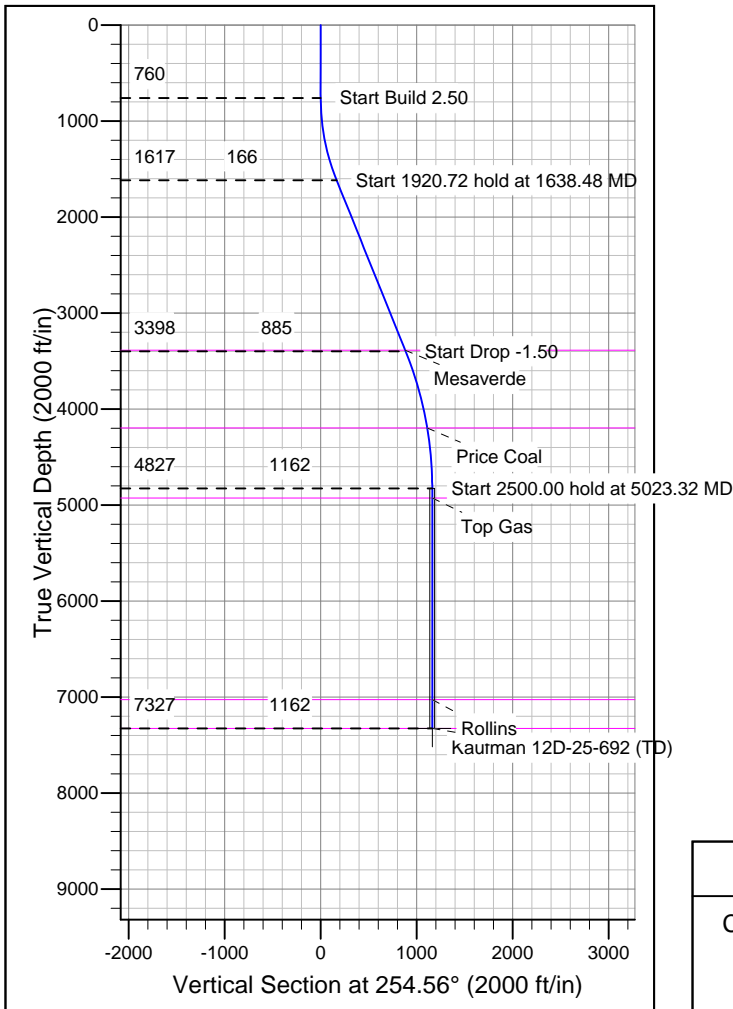
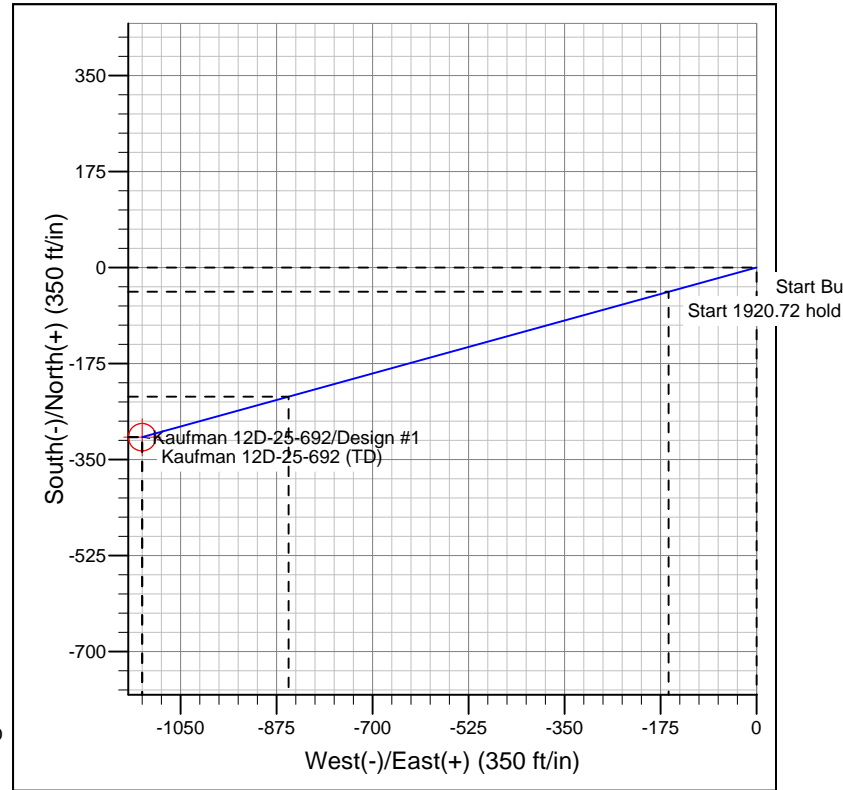
WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Kaufman 12D-25-692 (TD)	7327.00	-309.41	-1119.87	Circle (Radius: 25.00)



Azimuths to Grid North
True North: 1.34°
Magnetic North: 11.68°

Magnetic Field
Strength: 52478.6snT
Dip Angle: 65.87°
Date: 12/31/2009
Model: IGRF200510



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3387.00	3546.84	Mesaverde
4197.00	4390.43	Price Coal
4927.00	5123.32	Top Gas
7027.00	7223.32	Rollins
7327.00	7523.32	TD

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Kaufman 12D-25-692, Grid North
Vertical (TVD) Reference: WELL @ 5863.00ft (Original Well Elev)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: WELL @ 5863.00ft (Original Well Elev)
Calculation Method: Minimum Curvature