

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Kaufman Pad #2 NENW-25-692

Kaufman 11C-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 11C-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 11C-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	Latitude:	39° 30' 8.842 N
From:	Lat/Long	Easting:	2,402,305.683ft	Longitude:	107° 37' 6.1104 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-1.34 °

Well	Kaufman 11C-25-692					
Well Position	+N-S	-27.30 ft	Northing:	1,614,839.939 ft	Latitude:	39° 30' 8.568 N
	+E-W	-17.01 ft	Easting:	2,402,288.676 ft	Longitude:	107° 37' 6.3192 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	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	300.34

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	
770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,763.70	24.84	300.34	1,732.86	107.14	-183.02	2.50	2.50	0.00	300.34	
3,496.42	24.84	300.34	3,305.24	474.90	-811.25	0.00	0.00	0.00	0.00	
5,152.58	0.00	0.00	4,910.00	653.46	-1,116.28	1.50	-1.50	0.00	180.00	
7,652.58	0.00	0.00	7,410.00	653.46	-1,116.28	0.00	0.00	0.00	0.00	Kaufman 11C-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 11C-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	
770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.75	300.34	800.00	0.10	-0.17	0.20	2.50	2.50	0.00	
900.00	3.25	300.34	899.93	1.86	-3.18	3.69	2.50	2.50	0.00	
1,000.00	5.75	300.34	999.61	5.83	-9.95	11.53	2.50	2.50	0.00	
1,100.00	8.25	300.34	1,098.86	11.98	-20.47	23.72	2.50	2.50	0.00	
1,200.00	10.75	300.34	1,197.48	20.32	-34.71	40.22	2.50	2.50	0.00	
1,300.00	13.25	300.34	1,295.29	30.82	-52.65	61.01	2.50	2.50	0.00	
1,400.00	15.75	300.34	1,392.10	43.47	-74.26	86.05	2.50	2.50	0.00	
1,500.00	18.25	300.34	1,487.72	58.24	-99.49	115.28	2.50	2.50	0.00	
1,600.00	20.75	300.34	1,581.98	75.10	-128.29	148.66	2.50	2.50	0.00	
1,700.00	23.25	300.34	1,674.69	94.03	-160.62	186.12	2.50	2.50	0.00	
1,763.70	24.84	300.34	1,732.86	107.14	-183.02	212.07	2.50	2.50	0.00	
1,800.00	24.84	300.34	1,765.80	114.84	-196.18	227.32	0.00	0.00	0.00	
1,900.00	24.84	300.34	1,856.54	136.07	-232.44	269.33	0.00	0.00	0.00	
2,000.00	24.84	300.34	1,947.29	157.29	-268.69	311.35	0.00	0.00	0.00	
2,100.00	24.84	300.34	2,038.04	178.52	-304.95	353.36	0.00	0.00	0.00	
2,200.00	24.84	300.34	2,128.78	199.74	-341.21	395.37	0.00	0.00	0.00	
2,300.00	24.84	300.34	2,219.53	220.97	-377.46	437.38	0.00	0.00	0.00	
2,400.00	24.84	300.34	2,310.28	242.19	-413.72	479.40	0.00	0.00	0.00	
2,500.00	24.84	300.34	2,401.02	263.41	-449.98	521.41	0.00	0.00	0.00	
2,600.00	24.84	300.34	2,491.77	284.64	-486.24	563.42	0.00	0.00	0.00	
2,700.00	24.84	300.34	2,582.52	305.86	-522.49	605.43	0.00	0.00	0.00	
2,800.00	24.84	300.34	2,673.26	327.09	-558.75	647.45	0.00	0.00	0.00	
2,900.00	24.84	300.34	2,764.01	348.31	-595.01	689.46	0.00	0.00	0.00	
3,000.00	24.84	300.34	2,854.76	369.54	-631.26	731.47	0.00	0.00	0.00	
3,100.00	24.84	300.34	2,945.50	390.76	-667.52	773.48	0.00	0.00	0.00	
3,200.00	24.84	300.34	3,036.25	411.99	-703.78	815.50	0.00	0.00	0.00	
3,300.00	24.84	300.34	3,127.00	433.21	-740.03	857.51	0.00	0.00	0.00	
3,400.00	24.84	300.34	3,217.74	454.44	-776.29	899.52	0.00	0.00	0.00	
3,496.42	24.84	300.34	3,305.24	474.90	-811.25	940.03	0.00	0.00	0.00	
3,500.00	24.79	300.34	3,308.49	475.66	-812.55	941.53	1.50	-1.50	0.00	
3,600.00	23.29	300.34	3,399.82	496.24	-847.70	982.27	1.50	-1.50	0.00	
3,700.00	21.79	300.34	3,492.17	515.60	-880.78	1,020.60	1.50	-1.50	0.00	
3,800.00	20.29	300.34	3,585.51	533.74	-911.76	1,056.50	1.50	-1.50	0.00	
3,900.00	18.79	300.34	3,679.74	550.63	-940.62	1,089.94	1.50	-1.50	0.00	
4,000.00	17.29	300.34	3,774.83	566.28	-967.35	1,120.90	1.50	-1.50	0.00	
4,100.00	15.79	300.34	3,870.69	580.66	-991.91	1,149.37	1.50	-1.50	0.00	
4,200.00	14.29	300.34	3,967.26	593.77	-1,014.30	1,175.32	1.50	-1.50	0.00	
4,300.00	12.79	300.34	4,064.48	605.59	-1,034.51	1,198.73	1.50	-1.50	0.00	
4,400.00	11.29	300.34	4,162.28	616.13	-1,052.50	1,219.58	1.50	-1.50	0.00	
4,500.00	9.79	300.34	4,260.59	625.37	-1,068.29	1,237.87	1.50	-1.50	0.00	
4,600.00	8.29	300.34	4,359.34	633.31	-1,081.85	1,253.58	1.50	-1.50	0.00	
4,700.00	6.79	300.34	4,458.47	639.93	-1,093.17	1,266.70	1.50	-1.50	0.00	
4,800.00	5.29	300.34	4,557.92	645.25	-1,102.25	1,277.22	1.50	-1.50	0.00	
4,900.00	3.79	300.34	4,657.60	649.25	-1,109.08	1,285.13	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 11C-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	2.29	300.34	4,757.46	651.92	-1,113.65	1,290.43	1.50	-1.50	0.00
5,100.00	0.79	300.34	4,857.42	653.28	-1,115.97	1,293.12	1.50	-1.50	0.00
5,152.58	0.00	0.00	4,910.00	653.46	-1,116.28	1,293.48	1.50	-1.50	0.00
5,200.00	0.00	0.00	4,957.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
5,300.00	0.00	0.00	5,057.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
5,400.00	0.00	0.00	5,157.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
5,500.00	0.00	0.00	5,257.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
5,600.00	0.00	0.00	5,357.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
5,700.00	0.00	0.00	5,457.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
5,800.00	0.00	0.00	5,557.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
5,900.00	0.00	0.00	5,657.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
6,000.00	0.00	0.00	5,757.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
6,100.00	0.00	0.00	5,857.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
6,200.00	0.00	0.00	5,957.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
6,300.00	0.00	0.00	6,057.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
6,400.00	0.00	0.00	6,157.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
6,500.00	0.00	0.00	6,257.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
6,600.00	0.00	0.00	6,357.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
6,700.00	0.00	0.00	6,457.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
6,800.00	0.00	0.00	6,557.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
6,900.00	0.00	0.00	6,657.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
7,000.00	0.00	0.00	6,757.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
7,100.00	0.00	0.00	6,857.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
7,200.00	0.00	0.00	6,957.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
7,300.00	0.00	0.00	7,057.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
7,400.00	0.00	0.00	7,157.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
7,500.00	0.00	0.00	7,257.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
7,600.00	0.00	0.00	7,357.42	653.46	-1,116.28	1,293.48	0.00	0.00	0.00
7,652.58	0.00	0.00	7,410.00	653.46	-1,116.28	1,293.48	0.00	0.00	0.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,676.09	3,470.00	Mesaverde		0.00	
4,428.25	4,190.00	Price Coal		0.00	
5,192.58	4,950.00	Top Gas		0.00	
7,352.58	7,110.00	Rollins		0.00	
7,652.58	7,410.00	TD		0.00	

WELL DETAILS: Kaufman 11C-25-692

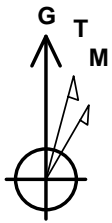
+N/-S	+E/-W	Northing	Ground Level:	5840.00			
0.00	0.00	1614839.939	Easting	2402288.676	Latitude	Longitude	Slot
					39° 30' 8.568 N	107° 37' 6.3192 W	

SECTION DETAILS

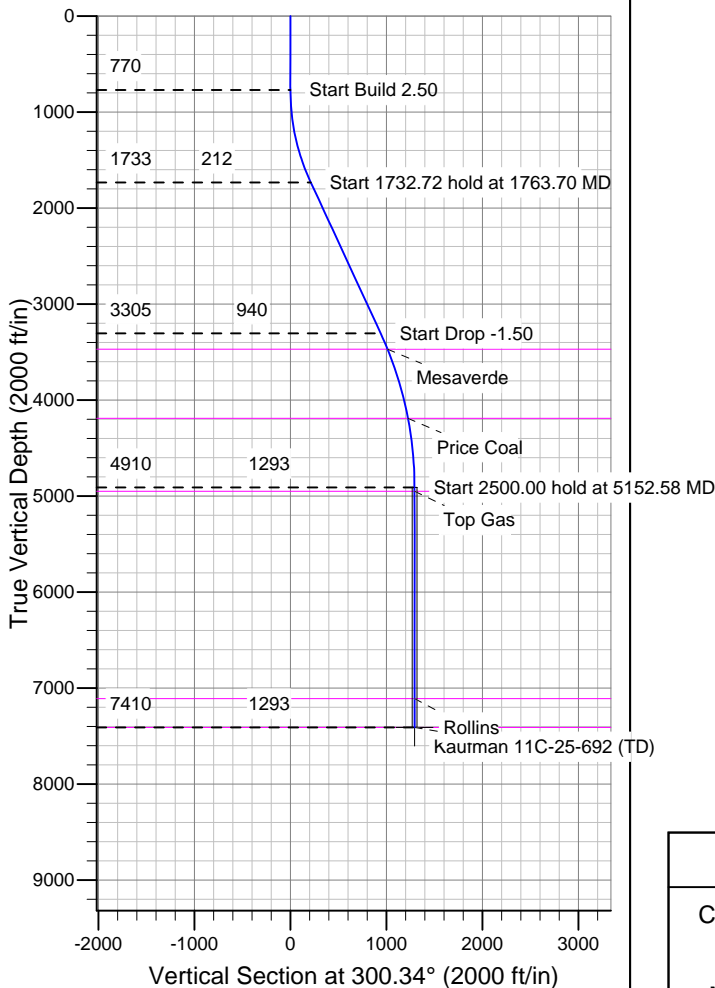
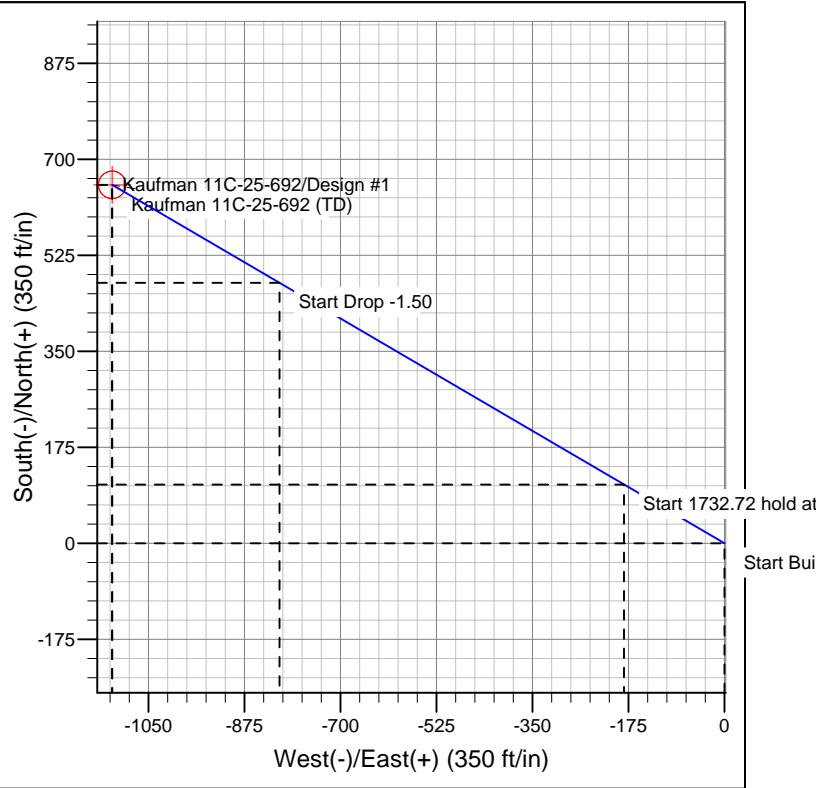
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	
3	1763.70	24.84	300.34	1732.86	107.14	-183.02	2.50	300.34	212.07	
4	3496.42	24.84	300.34	3305.24	474.90	-811.25	0.00	0.00	940.03	
5	5152.58	0.00	0.00	4910.00	653.46	-1116.28	1.50	180.00	1293.48	
6	7652.58	0.00	0.00	7410.00	653.46	-1116.28	0.00	0.00	1293.48	Kaufman 11C-25-692 (TD)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Kaufman 11C-25-692 (TD)	7410.00	653.46	-1116.28	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
3470.00	3676.09	Mesaverde
4190.00	4428.25	Price Coal
4950.00	5192.58	Top Gas
7110.00	7352.58	Rollins
7410.00	7652.58	TD

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Kaufman 11C-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