

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Kaufman Pad #2 NENW-25-692

Kaufman 31A-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 31A-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 31A-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 31A-25-692		
Well Position	+N/-S	-25.78 ft	Northing:
	+E/-W	-4.27 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 8.586 N
			Longitude:
			107° 37' 6.1572 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	90.93

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	
2,113.75	33.59	90.93	2,038.07	-6.20	382.72	2.50	2.50	0.00	90.93	
2,964.28	33.59	90.93	2,746.55	-13.82	853.26	0.00	0.00	0.00	0.00	
5,203.86	0.00	0.00	4,860.00	-24.16	1,491.14	1.50	-1.50	0.00	180.00	
7,703.86	0.00	0.00	7,360.00	-24.16	1,491.14	0.00	0.00	0.00	0.00	Kaufman 31A-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 31A-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	90.93	800.00	0.00	0.20	0.20	2.50	2.50	0.00	
900.00	3.25	90.93	899.93	-0.06	3.69	3.69	2.50	2.50	0.00	
1,000.00	5.75	90.93	999.61	-0.19	11.53	11.53	2.50	2.50	0.00	
1,100.00	8.25	90.93	1,098.86	-0.38	23.71	23.72	2.50	2.50	0.00	
1,200.00	10.75	90.93	1,197.48	-0.65	40.22	40.22	2.50	2.50	0.00	
1,300.00	13.25	90.93	1,295.29	-0.99	61.00	61.01	2.50	2.50	0.00	
1,400.00	15.75	90.93	1,392.10	-1.39	86.03	86.05	2.50	2.50	0.00	
1,500.00	18.25	90.93	1,487.72	-1.87	115.27	115.28	2.50	2.50	0.00	
1,600.00	20.75	90.93	1,581.98	-2.41	148.64	148.66	2.50	2.50	0.00	
1,700.00	23.25	90.93	1,674.69	-3.02	186.09	186.12	2.50	2.50	0.00	
1,800.00	25.75	90.93	1,765.68	-3.69	227.55	227.58	2.50	2.50	0.00	
1,900.00	28.25	90.93	1,854.77	-4.42	272.94	272.98	2.50	2.50	0.00	
2,000.00	30.75	90.93	1,941.80	-5.22	322.17	322.22	2.50	2.50	0.00	
2,100.00	33.25	90.93	2,026.60	-6.08	375.15	375.20	2.50	2.50	0.00	
2,113.75	33.59	90.93	2,038.07	-6.20	382.72	382.78	2.50	2.50	0.00	
2,200.00	33.59	90.93	2,109.92	-6.97	430.44	430.50	0.00	0.00	0.00	
2,300.00	33.59	90.93	2,193.22	-7.87	485.77	485.83	0.00	0.00	0.00	
2,400.00	33.59	90.93	2,276.51	-8.77	541.09	541.16	0.00	0.00	0.00	
2,500.00	33.59	90.93	2,359.81	-9.66	596.41	596.49	0.00	0.00	0.00	
2,600.00	33.59	90.93	2,443.11	-10.56	651.73	651.82	0.00	0.00	0.00	
2,700.00	33.59	90.93	2,526.41	-11.46	707.06	707.15	0.00	0.00	0.00	
2,800.00	33.59	90.93	2,609.71	-12.35	762.38	762.48	0.00	0.00	0.00	
2,900.00	33.59	90.93	2,693.01	-13.25	817.70	817.81	0.00	0.00	0.00	
2,964.28	33.59	90.93	2,746.55	-13.82	853.26	853.38	0.00	0.00	0.00	
3,000.00	33.06	90.93	2,776.40	-14.14	872.88	873.00	1.50	-1.50	0.00	
3,100.00	31.56	90.93	2,860.91	-15.01	926.32	926.44	1.50	-1.50	0.00	
3,200.00	30.06	90.93	2,946.80	-15.84	977.53	977.66	1.50	-1.50	0.00	
3,300.00	28.56	90.93	3,034.00	-16.63	1,026.47	1,026.61	1.50	-1.50	0.00	
3,400.00	27.06	90.93	3,122.45	-17.39	1,073.12	1,073.26	1.50	-1.50	0.00	
3,500.00	25.56	90.93	3,212.09	-18.10	1,117.43	1,117.57	1.50	-1.50	0.00	
3,600.00	24.06	90.93	3,302.85	-18.78	1,159.38	1,159.53	1.50	-1.50	0.00	
3,700.00	22.56	90.93	3,394.69	-19.42	1,198.94	1,199.10	1.50	-1.50	0.00	
3,800.00	21.06	90.93	3,487.53	-20.03	1,236.08	1,236.25	1.50	-1.50	0.00	
3,900.00	19.56	90.93	3,581.31	-20.59	1,270.78	1,270.95	1.50	-1.50	0.00	
4,000.00	18.06	90.93	3,675.97	-21.11	1,303.02	1,303.19	1.50	-1.50	0.00	
4,100.00	16.56	90.93	3,771.44	-21.59	1,332.76	1,332.94	1.50	-1.50	0.00	
4,200.00	15.06	90.93	3,867.66	-22.03	1,360.00	1,360.18	1.50	-1.50	0.00	
4,300.00	13.56	90.93	3,964.55	-22.43	1,384.71	1,384.89	1.50	-1.50	0.00	
4,400.00	12.06	90.93	4,062.06	-22.79	1,406.88	1,407.06	1.50	-1.50	0.00	
4,500.00	10.56	90.93	4,160.12	-23.11	1,426.48	1,426.67	1.50	-1.50	0.00	
4,600.00	9.06	90.93	4,258.65	-23.39	1,443.51	1,443.70	1.50	-1.50	0.00	
4,700.00	7.56	90.93	4,357.60	-23.62	1,457.96	1,458.15	1.50	-1.50	0.00	
4,800.00	6.06	90.93	4,456.89	-23.81	1,469.81	1,470.00	1.50	-1.50	0.00	
4,900.00	4.56	90.93	4,556.46	-23.96	1,479.06	1,479.25	1.50	-1.50	0.00	

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Site:	Kaufman Pad #2 NENW-25-692	North Reference:	Grid
Well:	Kaufman 31A-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	3.06	90.93	4,656.24	-24.07	1,485.70	1,485.90	1.50	-1.50	0.00
5,100.00	1.56	90.93	4,756.15	-24.14	1,489.73	1,489.92	1.50	-1.50	0.00
5,200.00	0.06	90.93	4,856.14	-24.16	1,491.14	1,491.33	1.50	-1.50	0.00
5,203.86	0.00	0.00	4,860.00	-24.16	1,491.14	1,491.33	1.50	-1.50	0.00
5,300.00	0.00	0.00	4,956.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
5,400.00	0.00	0.00	5,056.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
5,500.00	0.00	0.00	5,156.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
5,600.00	0.00	0.00	5,256.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
5,700.00	0.00	0.00	5,356.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
5,800.00	0.00	0.00	5,456.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
5,900.00	0.00	0.00	5,556.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
6,000.00	0.00	0.00	5,656.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
6,100.00	0.00	0.00	5,756.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
6,200.00	0.00	0.00	5,856.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
6,300.00	0.00	0.00	5,956.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
6,400.00	0.00	0.00	6,056.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
6,500.00	0.00	0.00	6,156.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
6,600.00	0.00	0.00	6,256.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
6,700.00	0.00	0.00	6,356.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
6,800.00	0.00	0.00	6,456.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
6,900.00	0.00	0.00	6,556.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
7,000.00	0.00	0.00	6,656.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
7,100.00	0.00	0.00	6,756.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
7,200.00	0.00	0.00	6,856.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
7,300.00	0.00	0.00	6,956.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
7,400.00	0.00	0.00	7,056.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
7,500.00	0.00	0.00	7,156.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
7,600.00	0.00	0.00	7,256.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
7,700.00	0.00	0.00	7,356.14	-24.16	1,491.14	1,491.33	0.00	0.00	0.00
7,703.86	0.00	0.00	7,360.00	-24.16	1,491.14	1,491.33	0.00	0.00	0.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,727.36	3,420.00	Mesaverde		0.00	
4,560.83	4,220.00	Price Coal		0.00	
5,193.86	4,850.00	Top Gas		0.00	
7,403.86	7,060.00	Rollins		0.00	
7,703.86	7,360.00	TD		0.00	

WELL DETAILS: Kaufman 31A-25-692

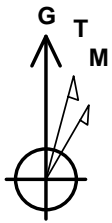
			Ground Level:	5840.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		Slot
0.00	0.00	1614841.464	2402301.412	39° 30' 8.586 N	107° 37' 6.1572 W		

SECTION DETAILS

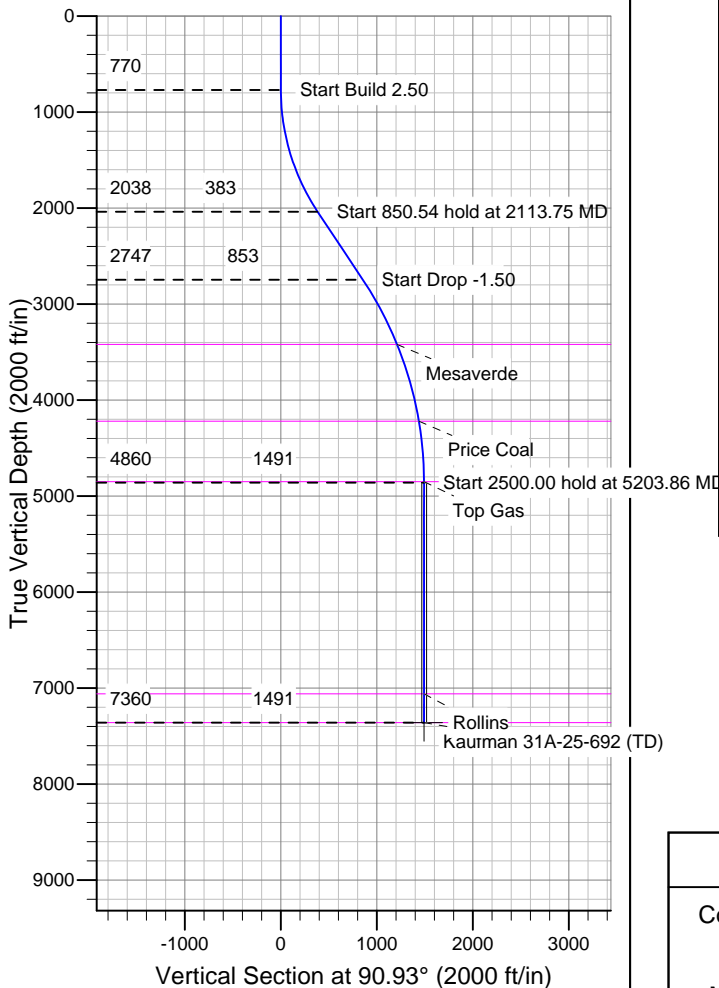
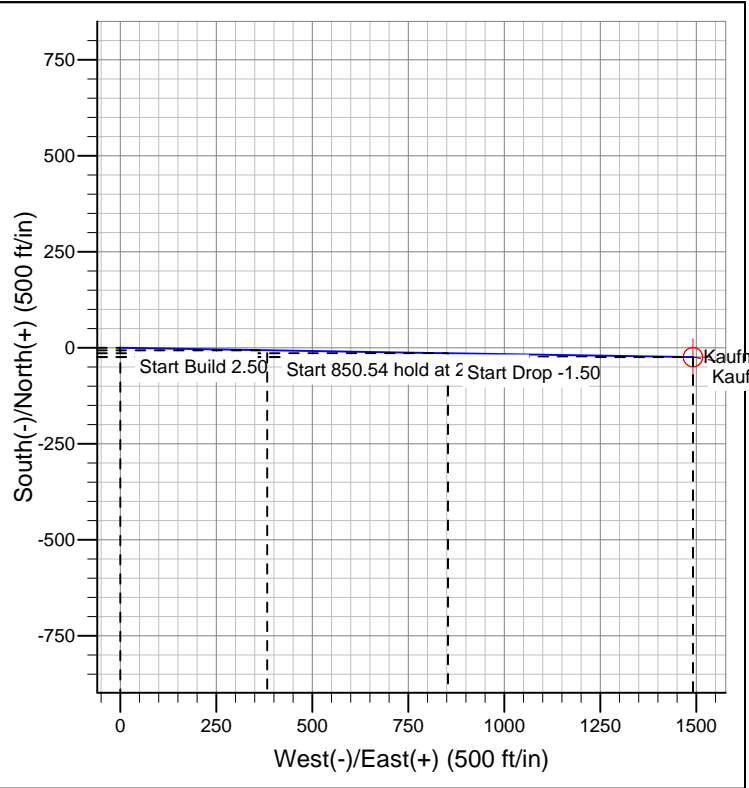
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	
3	2113.75	33.59	90.93	2038.07	-6.20	382.72	2.50	90.93	382.78	
4	2964.28	33.59	90.93	2746.55	-13.82	853.26	0.00	0.00	853.38	
5	5203.86	0.00	0.00	4860.00	-24.16	1491.14	1.50	180.00	1491.33	
6	7703.86	0.00	0.00	7360.00	-24.16	1491.14	0.00	0.00	1491.33	Kaufman 31A-25-692 (TD)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Kaufman 31A-25-692 (TD)	7360.00	-24.16	1491.14	Circle (Radius: 25.00)



Azimuths to Grid North
 True North: 1.34°
 Magnetic North: 11.68°
 Magnetic Field
 Strength: 52478.7snT
 Dip Angle: 65.87°
 Date: 12/31/2009
 Model: IGRF200510



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3420.00	3727.36	Mesaverde
4220.00	4560.83	Price Coal
4850.00	5193.86	Top Gas
7060.00	7403.86	Rollins
7360.00	7703.86	TD

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Kaufman 31A-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