

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Kaufman Pad #2 NENW-25-692

Kaufman 32C-25-692

Wellbore #1

Plan: Design #1

Standard Planning Report

23 September, 2011

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Kaufman 32C-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 32C-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 32C-25-692		
Well Position	+N/-S	-46.25 ft	Northing:
	+E/-W	-17.17 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 8.381 N
			Longitude:
			107° 37' 6.3156 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	113.87

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	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,297.55	38.69	113.87	2,182.60	-203.54	459.90	2.50	2.50	0.00	113.87	
2,771.24	38.69	113.87	2,552.34	-323.38	730.67	0.00	0.00	0.00	0.00	
5,350.48	0.00	0.00	4,940.00	-662.61	1,497.17	1.50	-1.50	0.00	180.00	
7,750.48	0.00	0.00	7,340.00	-662.61	1,497.17	0.00	0.00	0.00	0.00	Kaufman 32C-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 32C-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	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	1.25	113.87	800.00	-0.22	0.50	0.55	2.50	2.50	0.00	
900.00	3.75	113.87	899.89	-1.99	4.49	4.91	2.50	2.50	0.00	
1,000.00	6.25	113.87	999.50	-5.51	12.46	13.62	2.50	2.50	0.00	
1,100.00	8.75	113.87	1,098.64	-10.80	24.39	26.67	2.50	2.50	0.00	
1,200.00	11.25	113.87	1,197.11	-17.82	40.27	44.04	2.50	2.50	0.00	
1,300.00	13.75	113.87	1,294.74	-26.58	60.06	65.68	2.50	2.50	0.00	
1,400.00	16.25	113.87	1,391.32	-37.05	83.73	91.56	2.50	2.50	0.00	
1,500.00	18.75	113.87	1,486.69	-49.22	111.22	121.63	2.50	2.50	0.00	
1,600.00	21.25	113.87	1,580.65	-63.06	142.49	155.83	2.50	2.50	0.00	
1,700.00	23.75	113.87	1,673.03	-78.55	177.49	194.09	2.50	2.50	0.00	
1,800.00	26.25	113.87	1,763.65	-95.65	216.13	236.35	2.50	2.50	0.00	
1,900.00	28.75	113.87	1,852.35	-114.34	258.35	282.52	2.50	2.50	0.00	
2,000.00	31.25	113.87	1,938.94	-134.57	304.07	332.52	2.50	2.50	0.00	
2,100.00	33.75	113.87	2,023.27	-156.32	353.20	386.24	2.50	2.50	0.00	
2,200.00	36.25	113.87	2,105.18	-179.53	405.64	443.60	2.50	2.50	0.00	
2,297.55	38.69	113.87	2,182.60	-203.54	459.90	502.93	2.50	2.50	0.00	
2,300.00	38.69	113.87	2,184.51	-204.16	461.31	504.47	0.00	0.00	0.00	
2,400.00	38.69	113.87	2,262.57	-229.46	518.47	566.97	0.00	0.00	0.00	
2,500.00	38.69	113.87	2,340.62	-254.76	575.63	629.48	0.00	0.00	0.00	
2,600.00	38.69	113.87	2,418.68	-280.06	632.79	691.99	0.00	0.00	0.00	
2,700.00	38.69	113.87	2,496.73	-305.36	689.95	754.50	0.00	0.00	0.00	
2,771.24	38.69	113.87	2,552.34	-323.38	730.67	799.03	0.00	0.00	0.00	
2,800.00	38.26	113.87	2,574.86	-330.62	747.03	816.92	1.50	-1.50	0.00	
2,900.00	36.76	113.87	2,654.18	-355.26	802.71	877.81	1.50	-1.50	0.00	
3,000.00	35.26	113.87	2,735.07	-379.05	856.46	936.60	1.50	-1.50	0.00	
3,100.00	33.76	113.87	2,817.48	-401.98	908.27	993.25	1.50	-1.50	0.00	
3,200.00	32.26	113.87	2,901.34	-424.02	958.08	1,047.72	1.50	-1.50	0.00	
3,300.00	30.76	113.87	2,986.59	-445.17	1,005.87	1,099.98	1.50	-1.50	0.00	
3,400.00	29.26	113.87	3,073.18	-465.41	1,051.60	1,149.99	1.50	-1.50	0.00	
3,500.00	27.76	113.87	3,161.06	-484.73	1,095.24	1,197.71	1.50	-1.50	0.00	
3,600.00	26.26	113.87	3,250.15	-503.11	1,136.76	1,243.12	1.50	-1.50	0.00	
3,700.00	24.76	113.87	3,340.40	-520.53	1,176.14	1,286.18	1.50	-1.50	0.00	
3,800.00	23.26	113.87	3,431.75	-537.00	1,213.34	1,326.87	1.50	-1.50	0.00	
3,900.00	21.76	113.87	3,524.13	-552.49	1,248.35	1,365.14	1.50	-1.50	0.00	
4,000.00	20.26	113.87	3,617.48	-567.00	1,281.13	1,400.99	1.50	-1.50	0.00	
4,100.00	18.76	113.87	3,711.74	-580.51	1,311.66	1,434.38	1.50	-1.50	0.00	
4,200.00	17.26	113.87	3,806.84	-593.02	1,339.93	1,465.30	1.50	-1.50	0.00	
4,300.00	15.76	113.87	3,902.71	-604.52	1,365.91	1,493.71	1.50	-1.50	0.00	
4,400.00	14.26	113.87	3,999.30	-615.00	1,389.59	1,519.60	1.50	-1.50	0.00	
4,500.00	12.76	113.87	4,096.53	-624.45	1,410.95	1,542.96	1.50	-1.50	0.00	
4,600.00	11.26	113.87	4,194.34	-632.87	1,429.97	1,563.76	1.50	-1.50	0.00	
4,700.00	9.76	113.87	4,292.66	-640.25	1,446.65	1,582.00	1.50	-1.50	0.00	
4,800.00	8.26	113.87	4,391.42	-646.59	1,460.96	1,597.65	1.50	-1.50	0.00	
4,900.00	6.76	113.87	4,490.56	-651.88	1,472.91	1,610.72	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 32C-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	5.26	113.87	4,590.01	-656.11	1,482.48	1,621.18	1.50	-1.50	0.00
5,100.00	3.76	113.87	4,689.70	-659.29	1,489.67	1,629.04	1.50	-1.50	0.00
5,200.00	2.26	113.87	4,789.56	-661.41	1,494.46	1,634.29	1.50	-1.50	0.00
5,300.00	0.76	113.87	4,889.52	-662.48	1,496.87	1,636.92	1.50	-1.50	0.00
5,350.48	0.00	0.00	4,940.00	-662.61	1,497.17	1,637.25	1.50	-1.50	0.00
5,400.00	0.00	0.00	4,989.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
5,500.00	0.00	0.00	5,089.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
5,600.00	0.00	0.00	5,189.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
5,700.00	0.00	0.00	5,289.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
5,800.00	0.00	0.00	5,389.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
5,900.00	0.00	0.00	5,489.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
6,000.00	0.00	0.00	5,589.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
6,100.00	0.00	0.00	5,689.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
6,200.00	0.00	0.00	5,789.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
6,300.00	0.00	0.00	5,889.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
6,400.00	0.00	0.00	5,989.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
6,500.00	0.00	0.00	6,089.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
6,600.00	0.00	0.00	6,189.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
6,700.00	0.00	0.00	6,289.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
6,800.00	0.00	0.00	6,389.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
6,900.00	0.00	0.00	6,489.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
7,000.00	0.00	0.00	6,589.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
7,100.00	0.00	0.00	6,689.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
7,200.00	0.00	0.00	6,789.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
7,300.00	0.00	0.00	6,889.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
7,400.00	0.00	0.00	6,989.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
7,500.00	0.00	0.00	7,089.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
7,600.00	0.00	0.00	7,189.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
7,700.00	0.00	0.00	7,289.52	-662.61	1,497.17	1,637.25	0.00	0.00	0.00
7,750.48	0.00	0.00	7,340.00	-662.61	1,497.17	1,637.25	0.00	0.00	0.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,765.38	3,400.00	Mesaverde		0.00	
4,646.50	4,240.00	Price Coal		0.00	
5,260.47	4,850.00	Top Gas		0.00	
7,450.48	7,040.00	Rollins		0.00	
7,750.48	7,340.00	TD		0.00	

WELL DETAILS: Kaufman 32C-25-692

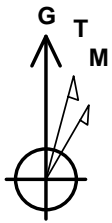
+N/-S	+E/-W	Northing	Ground Level:	5840.00	Longitude	Slot
0.00	0.00	1614820.993	Easting	2402288.516	Latitude	
					39° 30' 8.381 N 107° 37' 6.3156 W	

SECTION DETAILS

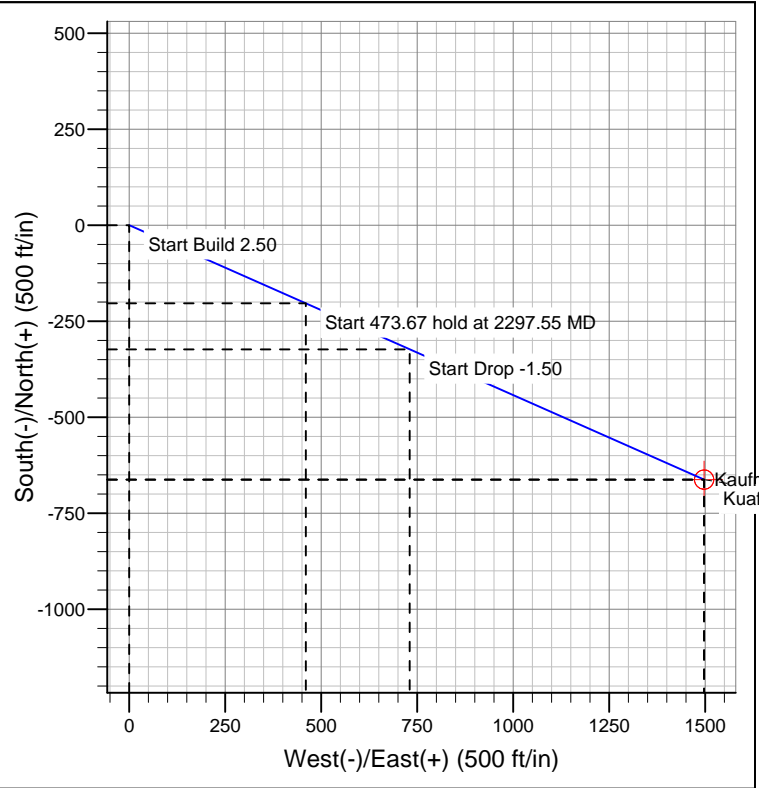
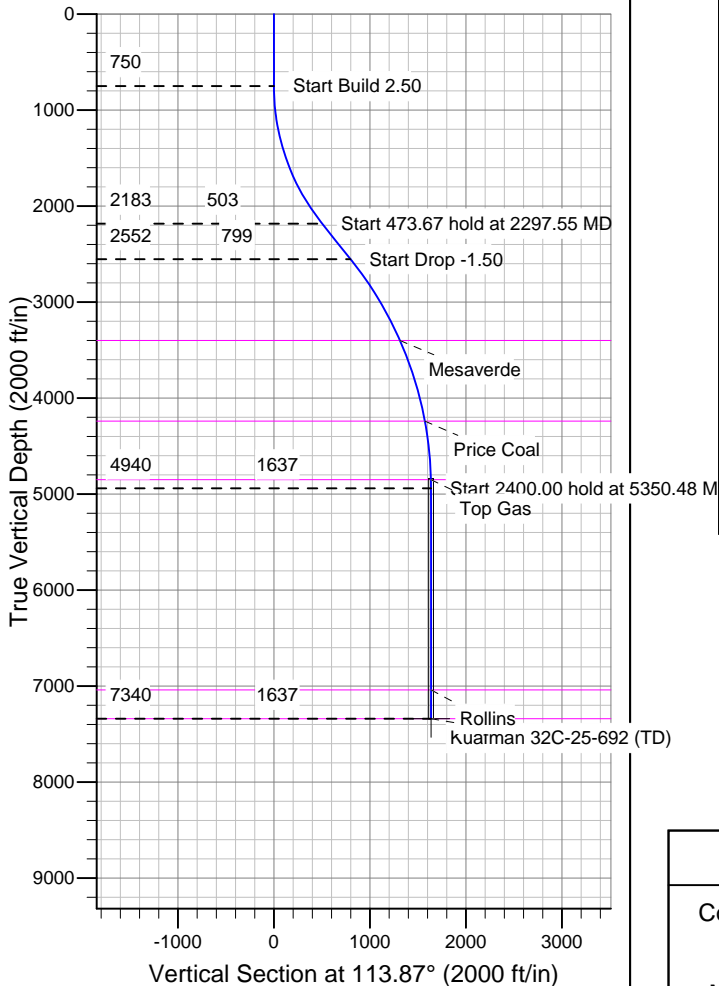
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	
3	2297.55	38.69	113.87	2182.60	-203.55	459.91	2.50	113.87	502.94	
4	2771.23	38.69	113.87	2552.33	-323.38	730.66	0.00	0.00	799.02	
5	5350.48	0.00	0.00	4940.00	-662.62	1497.17	1.50	180.00	1637.25	
6	7750.48	0.00	0.00	7340.00	-662.62	1497.17	0.00	0.00	1637.25	Kuafman 32C-25-692 (TD)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Kaufman 32C-25-692 (TD)	7340.00	-662.62	1497.17	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
3400.00	3765.38	Mesaverde
4240.00	4646.50	Price Coal
4850.00	5260.47	Top Gas
7040.00	7450.48	Rollins
7340.00	7750.48	TD

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Kaufman 32C-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