

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Kaufman Pad #2 NENW-25-692

Kaufman 11B-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 11B-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 11B-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 11B-25-692		
Well Position	+N/-S	-34.13 ft	Northing:
	+E/-W	-21.12 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 8.499 N
			Longitude:
			107° 37' 6.3696 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	286.55

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	
1,625.50	21.64	286.55	1,605.08	46.01	-154.80	2.50	2.50	0.00	286.55	
3,619.47	21.64	286.55	3,458.54	255.47	-859.58	0.00	0.00	0.00	0.00	
5,061.97	0.00	0.00	4,867.00	332.14	-1,117.58	1.50	-1.50	0.00	180.00	
7,561.97	0.00	0.00	7,367.00	332.14	-1,117.58	0.00	0.00	0.00	0.00	Kaufman 11B-25-692

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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 11B-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	286.55	800.00	0.10	-0.33	0.35	2.50	2.50	0.00
900.00	3.50	286.55	899.91	1.22	-4.10	4.27	2.50	2.50	0.00
1,000.00	6.00	286.55	999.56	3.58	-12.03	12.55	2.50	2.50	0.00
1,100.00	8.50	286.55	1,098.75	7.17	-24.13	25.17	2.50	2.50	0.00
1,200.00	11.00	286.55	1,197.30	12.00	-40.36	42.11	2.50	2.50	0.00
1,300.00	13.50	286.55	1,295.02	18.04	-60.70	63.32	2.50	2.50	0.00
1,400.00	16.00	286.55	1,391.71	25.29	-85.10	88.78	2.50	2.50	0.00
1,500.00	18.50	286.55	1,487.21	33.74	-113.53	118.43	2.50	2.50	0.00
1,600.00	21.00	286.55	1,581.32	43.37	-145.91	152.22	2.50	2.50	0.00
1,625.50	21.64	286.55	1,605.08	46.01	-154.80	161.49	2.50	2.50	0.00
1,700.00	21.64	286.55	1,674.32	53.83	-181.13	188.96	0.00	0.00	0.00
1,800.00	21.64	286.55	1,767.28	64.34	-216.48	225.84	0.00	0.00	0.00
1,900.00	21.64	286.55	1,860.23	74.84	-251.82	262.71	0.00	0.00	0.00
2,000.00	21.64	286.55	1,953.18	85.35	-287.17	299.58	0.00	0.00	0.00
2,100.00	21.64	286.55	2,046.14	95.85	-322.51	336.46	0.00	0.00	0.00
2,200.00	21.64	286.55	2,139.09	106.36	-357.86	373.33	0.00	0.00	0.00
2,300.00	21.64	286.55	2,232.05	116.86	-393.21	410.20	0.00	0.00	0.00
2,400.00	21.64	286.55	2,325.00	127.37	-428.55	447.08	0.00	0.00	0.00
2,500.00	21.64	286.55	2,417.95	137.87	-463.90	483.95	0.00	0.00	0.00
2,600.00	21.64	286.55	2,510.91	148.37	-499.24	520.82	0.00	0.00	0.00
2,700.00	21.64	286.55	2,603.86	158.88	-534.59	557.70	0.00	0.00	0.00
2,800.00	21.64	286.55	2,696.81	169.38	-569.93	594.57	0.00	0.00	0.00
2,900.00	21.64	286.55	2,789.77	179.89	-605.28	631.44	0.00	0.00	0.00
3,000.00	21.64	286.55	2,882.72	190.39	-640.62	668.32	0.00	0.00	0.00
3,100.00	21.64	286.55	2,975.67	200.90	-675.97	705.19	0.00	0.00	0.00
3,200.00	21.64	286.55	3,068.63	211.40	-711.31	742.06	0.00	0.00	0.00
3,300.00	21.64	286.55	3,161.58	221.91	-746.66	778.94	0.00	0.00	0.00
3,400.00	21.64	286.55	3,254.53	232.41	-782.00	815.81	0.00	0.00	0.00
3,500.00	21.64	286.55	3,347.49	242.92	-817.35	852.68	0.00	0.00	0.00
3,600.00	21.64	286.55	3,440.44	253.42	-852.70	889.56	0.00	0.00	0.00
3,619.47	21.64	286.55	3,458.54	255.47	-859.58	896.74	0.00	0.00	0.00
3,700.00	20.43	286.55	3,533.70	263.70	-887.28	925.64	1.50	-1.50	0.00
3,800.00	18.93	286.55	3,627.86	273.29	-919.56	959.31	1.50	-1.50	0.00
3,900.00	17.43	286.55	3,722.86	282.18	-949.47	990.51	1.50	-1.50	0.00
4,000.00	15.93	286.55	3,818.65	290.36	-976.98	1,019.21	1.50	-1.50	0.00
4,100.00	14.43	286.55	3,915.16	297.82	-1,002.08	1,045.40	1.50	-1.50	0.00
4,200.00	12.93	286.55	4,012.32	304.55	-1,024.75	1,069.05	1.50	-1.50	0.00
4,300.00	11.43	286.55	4,110.07	310.56	-1,044.97	1,090.14	1.50	-1.50	0.00
4,400.00	9.93	286.55	4,208.33	315.84	-1,062.73	1,108.67	1.50	-1.50	0.00
4,500.00	8.43	286.55	4,307.05	320.39	-1,078.02	1,124.63	1.50	-1.50	0.00
4,600.00	6.93	286.55	4,406.15	324.20	-1,090.83	1,137.99	1.50	-1.50	0.00
4,700.00	5.43	286.55	4,505.57	327.26	-1,101.15	1,148.75	1.50	-1.50	0.00
4,800.00	3.93	286.55	4,605.23	329.59	-1,108.97	1,156.91	1.50	-1.50	0.00
4,900.00	2.43	286.55	4,705.07	331.17	-1,114.29	1,162.46	1.50	-1.50	0.00

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Well:	Kaufman 11B-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	0.93	286.55	4,805.03	332.00	-1,117.10	1,165.39	1.50	-1.50	0.00
5,061.97	0.00	0.00	4,867.00	332.14	-1,117.58	1,165.89	1.50	-1.50	0.00
5,100.00	0.00	0.00	4,905.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
5,200.00	0.00	0.00	5,005.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
5,300.00	0.00	0.00	5,105.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
5,400.00	0.00	0.00	5,205.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
5,500.00	0.00	0.00	5,305.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
5,600.00	0.00	0.00	5,405.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
5,700.00	0.00	0.00	5,505.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
5,800.00	0.00	0.00	5,605.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
5,900.00	0.00	0.00	5,705.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
6,000.00	0.00	0.00	5,805.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
6,100.00	0.00	0.00	5,905.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
6,200.00	0.00	0.00	6,005.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
6,300.00	0.00	0.00	6,105.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
6,400.00	0.00	0.00	6,205.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
6,500.00	0.00	0.00	6,305.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
6,600.00	0.00	0.00	6,405.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
6,700.00	0.00	0.00	6,505.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
6,800.00	0.00	0.00	6,605.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
6,900.00	0.00	0.00	6,705.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
7,000.00	0.00	0.00	6,805.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
7,100.00	0.00	0.00	6,905.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
7,200.00	0.00	0.00	7,005.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
7,300.00	0.00	0.00	7,105.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
7,400.00	0.00	0.00	7,205.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
7,500.00	0.00	0.00	7,305.03	332.14	-1,117.58	1,165.89	0.00	0.00	0.00
7,561.97	0.00	0.00	7,367.00	332.14	-1,117.58	1,165.89	0.00	0.00	0.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,585.54	3,427.00	Mesaverde		0.00	
4,368.17	4,177.00	Price Coal		0.00	
5,121.97	4,927.00	Top Gas		0.00	
7,261.97	7,067.00	Rollins		0.00	
7,561.97	7,367.00	TD		0.00	

WELL DETAILS: Kaufman 11B-25-692

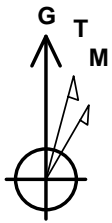
+N/-S	+E/-W	Northing	Ground Level:	5840.00	Longitude	Slot
0.00	0.00	1614833.113	Easting	2402284.565	39° 30' 8.499 N 107° 37' 6.3696 W	

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	1625.50	21.64	286.55	1605.08	46.01	-154.80	2.50	286.55	161.49	
4	3619.47	21.64	286.55	3458.54	255.47	-859.58	0.00	0.00	896.74	
5	5061.97	0.00	0.00	4867.00	332.14	-1117.58	1.50	180.00	1165.89	
6	7561.97	0.00	0.00	7367.00	332.14	-1117.58	0.00	0.00	1165.89	Kaufman 11B-25-692 (TD)

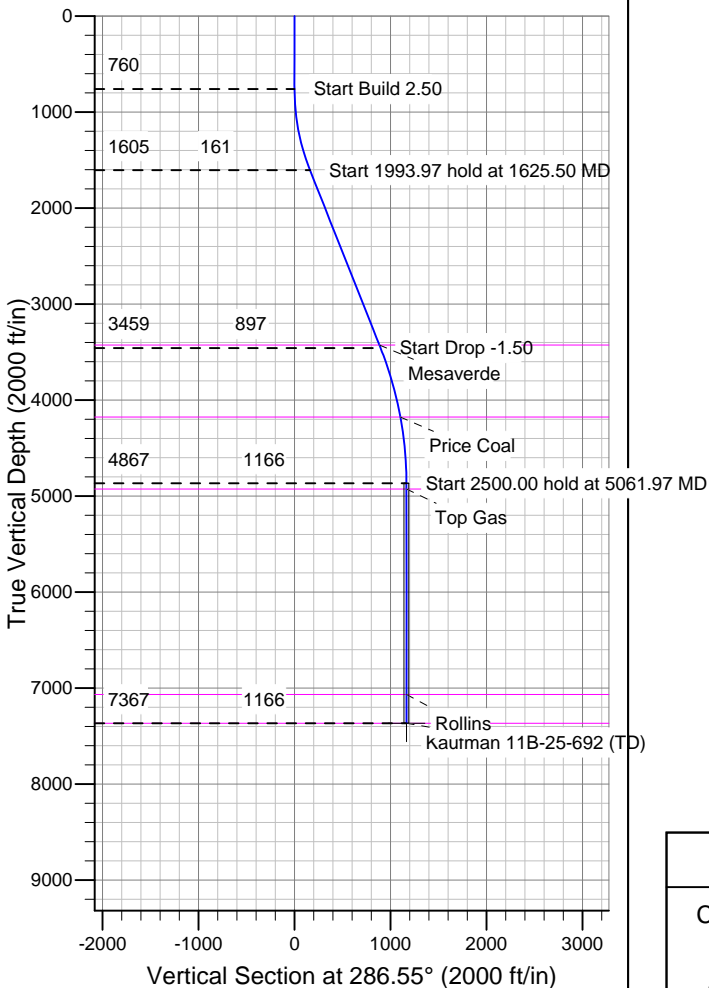
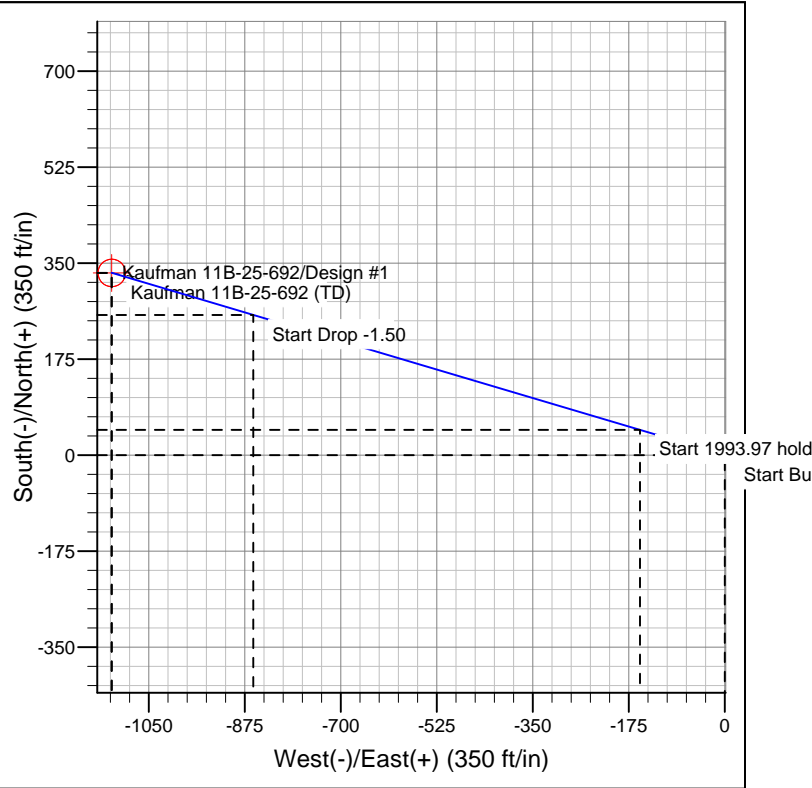
WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Kaufman 11B-25-692 (TD)	7367.00	332.14	-1117.58	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
3427.00	3585.54	Mesaverde
4177.00	4368.17	Price Coal
4927.00	5121.97	Top Gas
7067.00	7261.97	Rollins
7367.00	7561.97	TD

REFERENCE INFORMATION

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