

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Kaufman Pad #2 NENW-25-692

Kaufman 11D-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 11D-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 11D-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 11D-25-692		
Well Position	+N/-S	-20.48 ft	Northing:
	+E/-W	-12.61 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 8.636 N
			Longitude:
			107° 37' 6.2652 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	311.12

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	
780.00	0.00	0.00	780.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,054.01	31.85	311.12	1,989.40	226.95	-259.95	2.50	2.50	0.00	311.12	
3,115.82	31.85	311.12	2,891.34	595.45	-682.04	0.00	0.00	0.00	0.00	
5,239.16	0.00	0.00	4,907.00	973.69	-1,115.29	1.50	-1.50	0.00	180.00	
7,739.16	0.00	0.00	7,407.00	973.69	-1,115.29	0.00	0.00	0.00	0.00	Kaufman 11D-25-692

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Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Kaufman 11D-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 11D-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
780.00	0.00	0.00	780.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.50	311.12	800.00	0.06	-0.07	0.09	2.50	2.50	0.00
900.00	3.00	311.12	899.95	2.07	-2.37	3.14	2.50	2.50	0.00
1,000.00	5.50	311.12	999.66	6.94	-7.95	10.55	2.50	2.50	0.00
1,100.00	8.00	311.12	1,098.96	14.67	-16.80	22.30	2.50	2.50	0.00
1,200.00	10.50	311.12	1,197.65	25.24	-28.91	38.38	2.50	2.50	0.00
1,300.00	13.00	311.12	1,295.55	38.63	-44.25	58.74	2.50	2.50	0.00
1,400.00	15.50	311.12	1,392.47	54.82	-62.79	83.35	2.50	2.50	0.00
1,500.00	18.00	311.12	1,488.21	73.77	-84.50	112.17	2.50	2.50	0.00
1,600.00	20.50	311.12	1,582.62	95.45	-109.33	145.14	2.50	2.50	0.00
1,700.00	23.00	311.12	1,675.49	119.82	-137.24	182.19	2.50	2.50	0.00
1,800.00	25.50	311.12	1,766.66	146.83	-168.18	223.26	2.50	2.50	0.00
1,900.00	28.00	311.12	1,855.95	176.43	-202.09	268.26	2.50	2.50	0.00
2,000.00	30.50	311.12	1,943.19	208.56	-238.89	317.12	2.50	2.50	0.00
2,054.01	31.85	311.12	1,989.40	226.95	-259.95	345.08	2.50	2.50	0.00
2,100.00	31.85	311.12	2,028.47	242.91	-278.23	369.35	0.00	0.00	0.00
2,200.00	31.85	311.12	2,113.41	277.61	-317.98	422.12	0.00	0.00	0.00
2,300.00	31.85	311.12	2,198.35	312.32	-357.74	474.89	0.00	0.00	0.00
2,400.00	31.85	311.12	2,283.30	347.02	-397.49	527.66	0.00	0.00	0.00
2,500.00	31.85	311.12	2,368.24	381.73	-437.24	580.43	0.00	0.00	0.00
2,600.00	31.85	311.12	2,453.18	416.43	-476.99	633.20	0.00	0.00	0.00
2,700.00	31.85	311.12	2,538.13	451.14	-516.74	685.97	0.00	0.00	0.00
2,800.00	31.85	311.12	2,623.07	485.84	-556.50	738.74	0.00	0.00	0.00
2,900.00	31.85	311.12	2,708.01	520.55	-596.25	791.51	0.00	0.00	0.00
3,000.00	31.85	311.12	2,792.96	555.25	-636.00	844.28	0.00	0.00	0.00
3,100.00	31.85	311.12	2,877.90	589.96	-675.75	897.05	0.00	0.00	0.00
3,115.82	31.85	311.12	2,891.34	595.45	-682.04	905.40	0.00	0.00	0.00
3,200.00	30.59	311.12	2,963.33	624.14	-714.91	949.03	1.50	-1.50	0.00
3,300.00	29.09	311.12	3,050.07	656.87	-752.39	998.78	1.50	-1.50	0.00
3,400.00	27.59	311.12	3,138.08	688.08	-788.14	1,046.24	1.50	-1.50	0.00
3,500.00	26.09	311.12	3,227.31	717.77	-822.15	1,091.39	1.50	-1.50	0.00
3,600.00	24.59	311.12	3,317.69	745.92	-854.39	1,134.18	1.50	-1.50	0.00
3,700.00	23.09	311.12	3,409.15	772.49	-884.83	1,174.59	1.50	-1.50	0.00
3,800.00	21.59	311.12	3,501.65	797.49	-913.46	1,212.60	1.50	-1.50	0.00
3,900.00	20.09	311.12	3,595.10	820.88	-940.25	1,248.17	1.50	-1.50	0.00
4,000.00	18.59	311.12	3,689.46	842.66	-965.20	1,281.28	1.50	-1.50	0.00
4,100.00	17.09	311.12	3,784.65	862.80	-988.27	1,311.91	1.50	-1.50	0.00
4,200.00	15.59	311.12	3,880.61	881.30	-1,009.46	1,340.04	1.50	-1.50	0.00
4,300.00	14.09	311.12	3,977.27	898.14	-1,028.75	1,365.65	1.50	-1.50	0.00
4,400.00	12.59	311.12	4,074.57	913.32	-1,046.13	1,388.72	1.50	-1.50	0.00
4,500.00	11.09	311.12	4,172.44	926.81	-1,061.58	1,409.23	1.50	-1.50	0.00
4,600.00	9.59	311.12	4,270.82	938.61	-1,075.10	1,427.17	1.50	-1.50	0.00
4,700.00	8.09	311.12	4,369.63	948.71	-1,086.67	1,442.54	1.50	-1.50	0.00
4,800.00	6.59	311.12	4,468.80	957.11	-1,096.29	1,455.31	1.50	-1.50	0.00
4,900.00	5.09	311.12	4,568.28	963.80	-1,103.95	1,465.48	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 11D-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	3.59	311.12	4,667.99	968.77	-1,109.65	1,473.04	1.50	-1.50	0.00
5,100.00	2.09	311.12	4,767.87	972.03	-1,113.38	1,477.99	1.50	-1.50	0.00
5,200.00	0.59	311.12	4,867.84	973.56	-1,115.14	1,480.32	1.50	-1.50	0.00
5,239.16	0.00	0.00	4,907.00	973.69	-1,115.29	1,480.52	1.50	-1.50	0.00
5,300.00	0.00	0.00	4,967.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
5,400.00	0.00	0.00	5,067.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
5,500.00	0.00	0.00	5,167.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
5,600.00	0.00	0.00	5,267.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
5,700.00	0.00	0.00	5,367.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
5,800.00	0.00	0.00	5,467.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
5,900.00	0.00	0.00	5,567.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
6,000.00	0.00	0.00	5,667.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
6,100.00	0.00	0.00	5,767.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
6,200.00	0.00	0.00	5,867.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
6,300.00	0.00	0.00	5,967.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
6,400.00	0.00	0.00	6,067.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
6,500.00	0.00	0.00	6,167.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
6,600.00	0.00	0.00	6,267.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
6,700.00	0.00	0.00	6,367.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
6,800.00	0.00	0.00	6,467.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
6,900.00	0.00	0.00	6,567.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
7,000.00	0.00	0.00	6,667.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
7,100.00	0.00	0.00	6,767.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
7,200.00	0.00	0.00	6,867.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
7,300.00	0.00	0.00	6,967.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
7,400.00	0.00	0.00	7,067.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
7,500.00	0.00	0.00	7,167.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
7,600.00	0.00	0.00	7,267.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
7,700.00	0.00	0.00	7,367.84	973.69	-1,115.29	1,480.52	0.00	0.00	0.00
7,739.16	0.00	0.00	7,407.00	973.69	-1,115.29	1,480.52	0.00	0.00	0.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,762.67	3,467.00	Mesaverde		0.00	
4,484.26	4,157.00	Price Coal		0.00	
5,259.16	4,927.00	Top Gas		0.00	
7,439.16	7,107.00	Rollins		0.00	
7,739.16	7,407.00	TD		0.00	

WELL DETAILS: Kaufman 11D-25-692

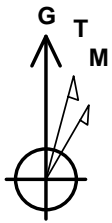
+N/-S	+E/-W	Northing	Ground Level:	5840.00		
0.00	0.00	1614846.759	Easting	2402293.068	Latitude	Longitude
					39° 30' 8.636 N	107° 37' 6.2652 W
						Slot

SECTION DETAILS

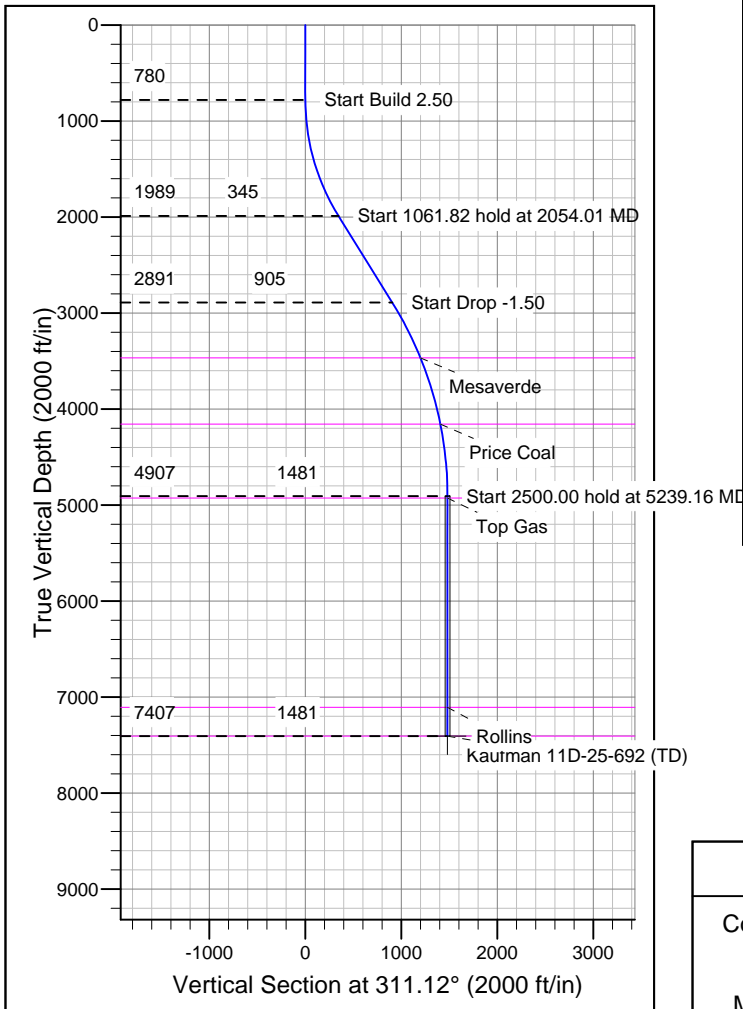
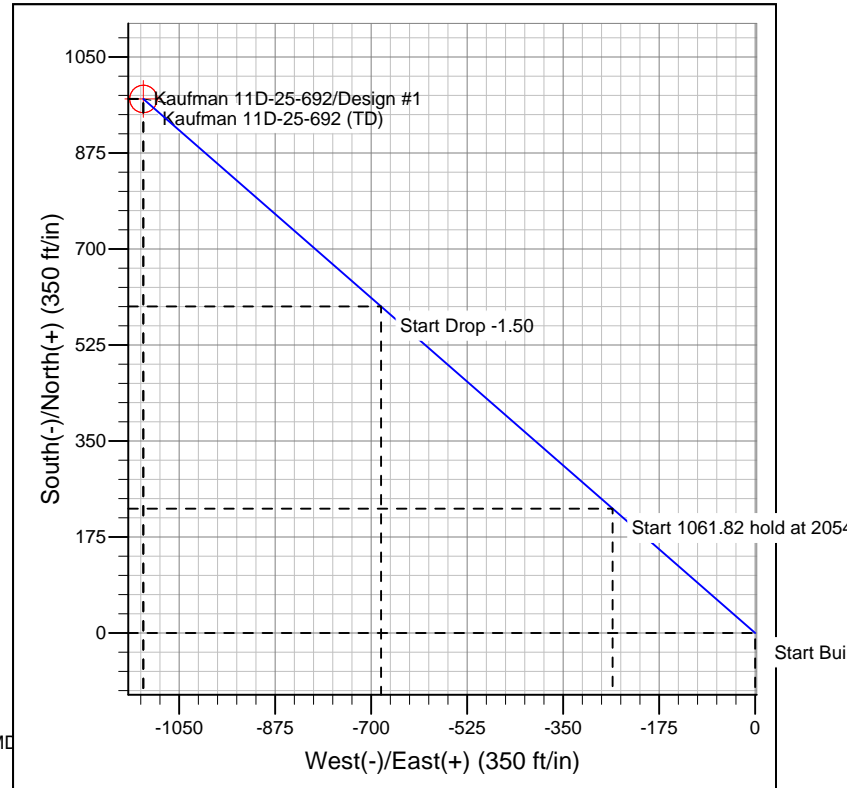
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	780.00	0.00	0.00	780.00	0.00	0.00	0.00	0.00	0.00	
3	2054.01	31.85	311.12	1989.40	226.95	-259.95	2.50	311.12	345.08	
4	3115.82	31.85	311.12	2891.34	595.45	-682.04	0.00	0.00	905.40	
5	5239.16	0.00	0.00	4907.00	973.69	-1115.29	1.50	180.00	1480.52	
6	7739.16	0.00	0.00	7407.00	973.69	-1115.29	0.00	0.00	1480.52	Kaufman 11D-25-692 (TD)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Kaufman 11D-25-692 (TD)	7407.00	973.69	-1115.29	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
3467.00	3762.67	Mesaverde
4157.00	4484.26	Price Coal
4927.00	5259.16	Top Gas
7107.00	7439.16	Rollins
7407.00	7739.16	TD

REFERENCE INFORMATION

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