

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Kaufman Pad #4 NWNW-30-691

Kaufman 41D-25-692

Wellbore #1

Plan: Design #1

Standard Planning Report

31 December, 2009

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Kaufman 41D-25-692
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 5786.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 5786.00ft (Original Well Elev)
Site:	Kaufman Pad #4 NWNW-30-691	North Reference:	True
Well:	Kaufman 41D-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 #4 NWNW-30-691											
Site Position:			Northing:			1,614,920.309ft			Latitude:			39° 30' 10.271 N					
From:			Lat/Long			Easting:			2,406,245.151 ft			Longitude:			107° 36' 15.8796 W		
Position Uncertainty:			0.00 ft			Slot Radius:			"			Grid Convergence:			-1.33 °		

Well	Kaufman 41D-25-692					
Well Position	+N/-S	116.18 ft	Northing:	1,615,037.695 ft	Latitude:	39° 30' 11.419 N
	+E/-W	-53.61 ft	Easting:	2,406,194.244 ft	Longitude:	107° 36' 16.5636 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	0.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2007	12/29/2009	10.42	65.84	52,432

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	303.62	

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	
1,466.27	17.66	303.62	1,455.14	59.78	-89.90	2.50	2.50	0.00	303.62	
4,839.46	17.66	303.62	4,669.43	626.33	-941.86	0.00	0.00	0.00	0.00	
6,016.58	0.00	0.00	5,828.00	725.97	-1,091.69	1.50	-1.50	0.00	180.00	
7,516.58	0.00	0.00	7,328.00	725.97	-1,091.69	0.00	0.00	0.00	0.00	Kaufman 41D-25-692

BBC
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Kaufman 41D-25-692
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 5786.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 5786.00ft (Original Well Elev)
Site:	Kaufman Pad #4 NWNW-30-691	North Reference:	True
Well:	Kaufman 41D-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
9 5/8"									
800.00	1.00	303.62	800.00	0.19	-0.29	0.35	2.50	2.50	0.00
900.00	3.50	303.62	899.91	2.37	-3.56	4.27	2.50	2.50	0.00
1,000.00	6.00	303.62	999.56	6.95	-10.45	12.55	2.50	2.50	0.00
1,100.00	8.50	303.62	1,098.75	13.94	-20.96	25.17	2.50	2.50	0.00
1,200.00	11.00	303.62	1,197.30	23.32	-35.06	42.11	2.50	2.50	0.00
1,300.00	13.50	303.62	1,295.02	35.06	-52.73	63.32	2.50	2.50	0.00
1,400.00	16.00	303.62	1,391.71	49.16	-73.93	88.78	2.50	2.50	0.00
1,466.27	17.66	303.62	1,455.14	59.78	-89.90	107.97	2.50	2.50	0.00
1,500.00	17.66	303.62	1,487.29	65.45	-98.42	118.20	0.00	0.00	0.00
1,600.00	17.66	303.62	1,582.57	82.25	-123.68	148.53	0.00	0.00	0.00
1,700.00	17.66	303.62	1,677.86	99.04	-148.93	178.86	0.00	0.00	0.00
1,800.00	17.66	303.62	1,773.15	115.84	-174.19	209.19	0.00	0.00	0.00
1,900.00	17.66	303.62	1,868.44	132.63	-199.45	239.52	0.00	0.00	0.00
2,000.00	17.66	303.62	1,963.73	149.43	-224.70	269.85	0.00	0.00	0.00
2,100.00	17.66	303.62	2,059.02	166.22	-249.96	300.18	0.00	0.00	0.00
2,200.00	17.66	303.62	2,154.31	183.02	-275.22	330.52	0.00	0.00	0.00
2,300.00	17.66	303.62	2,249.60	199.81	-300.47	360.85	0.00	0.00	0.00
2,400.00	17.66	303.62	2,344.89	216.61	-325.73	391.18	0.00	0.00	0.00
2,500.00	17.66	303.62	2,440.18	233.41	-350.99	421.51	0.00	0.00	0.00
2,600.00	17.66	303.62	2,535.47	250.20	-376.24	451.84	0.00	0.00	0.00
2,700.00	17.66	303.62	2,630.75	267.00	-401.50	482.17	0.00	0.00	0.00
2,800.00	17.66	303.62	2,726.04	283.79	-426.76	512.50	0.00	0.00	0.00
2,900.00	17.66	303.62	2,821.33	300.59	-452.01	542.84	0.00	0.00	0.00
3,000.00	17.66	303.62	2,916.62	317.38	-477.27	573.17	0.00	0.00	0.00
3,100.00	17.66	303.62	3,011.91	334.18	-502.53	603.50	0.00	0.00	0.00
3,200.00	17.66	303.62	3,107.20	350.98	-527.78	633.83	0.00	0.00	0.00
3,300.00	17.66	303.62	3,202.49	367.77	-553.04	664.16	0.00	0.00	0.00
3,400.00	17.66	303.62	3,297.78	384.57	-578.30	694.49	0.00	0.00	0.00
3,500.00	17.66	303.62	3,393.07	401.36	-603.55	724.82	0.00	0.00	0.00
3,505.18	17.66	303.62	3,398.00	402.23	-604.86	726.39	0.00	0.00	0.00
Mesaverde									
3,600.00	17.66	303.62	3,488.36	418.16	-628.81	755.15	0.00	0.00	0.00
3,700.00	17.66	303.62	3,583.65	434.95	-654.07	785.49	0.00	0.00	0.00
3,800.00	17.66	303.62	3,678.93	451.75	-679.32	815.82	0.00	0.00	0.00
3,900.00	17.66	303.62	3,774.22	468.54	-704.58	846.15	0.00	0.00	0.00
4,000.00	17.66	303.62	3,869.51	485.34	-729.84	876.48	0.00	0.00	0.00
4,100.00	17.66	303.62	3,964.80	502.14	-755.09	906.81	0.00	0.00	0.00
4,200.00	17.66	303.62	4,060.09	518.93	-780.35	937.14	0.00	0.00	0.00
4,300.00	17.66	303.62	4,155.38	535.73	-805.61	967.47	0.00	0.00	0.00
4,344.73	17.66	303.62	4,198.00	543.24	-816.90	981.04	0.00	0.00	0.00
Price Coal									
4,400.00	17.66	303.62	4,250.67	552.52	-830.86	997.80	0.00	0.00	0.00
4,500.00	17.66	303.62	4,345.96	569.32	-856.12	1,028.14	0.00	0.00	0.00

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Kaufman 41D-25-692
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 5786.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 5786.00ft (Original Well Elev)
Site:	Kaufman Pad #4 NWNW-30-691	North Reference:	True
Well:	Kaufman 41D-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)
4,600.00	17.66	303.62	4,441.25	586.11	-881.38	1,058.47	0.00	0.00	0.00
4,700.00	17.66	303.62	4,536.54	602.91	-906.63	1,088.80	0.00	0.00	0.00
4,733.02	17.66	303.62	4,568.00	608.45	-914.97	1,098.81	0.00	0.00	0.00
Top Gas									
4,800.00	17.66	303.62	4,631.83	619.70	-931.89	1,119.13	0.00	0.00	0.00
4,839.46	17.66	303.62	4,669.43	626.33	-941.86	1,131.10	0.00	0.00	0.00
4,900.00	16.75	303.62	4,727.26	636.25	-956.77	1,149.00	1.50	-1.50	0.00
5,000.00	15.25	303.62	4,823.38	651.51	-979.71	1,176.56	1.50	-1.50	0.00
5,100.00	13.75	303.62	4,920.19	665.37	-1,000.56	1,201.60	1.50	-1.50	0.00
5,200.00	12.25	303.62	5,017.63	677.83	-1,019.29	1,224.09	1.50	-1.50	0.00
5,300.00	10.75	303.62	5,115.62	688.86	-1,035.89	1,244.03	1.50	-1.50	0.00
5,400.00	9.25	303.62	5,214.10	698.48	-1,050.35	1,261.39	1.50	-1.50	0.00
5,500.00	7.75	303.62	5,313.00	706.66	-1,062.65	1,276.17	1.50	-1.50	0.00
5,600.00	6.25	303.62	5,412.25	713.41	-1,072.80	1,288.35	1.50	-1.50	0.00
5,700.00	4.75	303.62	5,511.79	718.71	-1,080.78	1,297.93	1.50	-1.50	0.00
5,800.00	3.25	303.62	5,611.54	722.57	-1,086.58	1,304.90	1.50	-1.50	0.00
5,900.00	1.75	303.62	5,711.44	724.99	-1,090.21	1,309.26	1.50	-1.50	0.00
6,000.00	0.25	303.62	5,811.42	725.95	-1,091.66	1,311.01	1.50	-1.50	0.00
6,016.58	0.00	0.00	5,828.00	725.97	-1,091.69	1,311.04	1.50	-1.50	0.00
6,100.00	0.00	0.00	5,911.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
6,200.00	0.00	0.00	6,011.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
6,300.00	0.00	0.00	6,111.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
6,400.00	0.00	0.00	6,211.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
6,500.00	0.00	0.00	6,311.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
6,600.00	0.00	0.00	6,411.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
6,700.00	0.00	0.00	6,511.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
6,800.00	0.00	0.00	6,611.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
6,900.00	0.00	0.00	6,711.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
7,000.00	0.00	0.00	6,811.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
7,100.00	0.00	0.00	6,911.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
7,200.00	0.00	0.00	7,011.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
7,216.58	0.00	0.00	7,028.00	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
Rollins									
7,300.00	0.00	0.00	7,111.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
7,400.00	0.00	0.00	7,211.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
7,500.00	0.00	0.00	7,311.42	725.97	-1,091.69	1,311.04	0.00	0.00	0.00
7,516.58	0.00	0.00	7,328.00	725.97	-1,091.69	1,311.04	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
760.00	760.00	9 5/8"	9-5/8	12-1/4

BBC

Planning Report

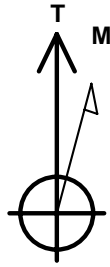
Database:	Compass	Local Co-ordinate Reference:	Well Kaufman 41D-25-692
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 5786.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 5786.00ft (Original Well Elev)
Site:	Kaufman Pad #4 NWNW-30-691	North Reference:	True
Well:	Kaufman 41D-25-692	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,505.18	3,398.00	Mesaverde		0.00		
4,344.73	4,198.00	Price Coal		0.00		
4,733.02	4,568.00	Top Gas		0.00		
7,216.58	7,028.00	Rollins		0.00		

WELL DETAILS: Kaufman 41D-25-692

Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1615037.695	2406194.294	30° 11' 40" N	107° 16' 16.5636 W	



Azimuths to True North
Magnetic North: 10.42°

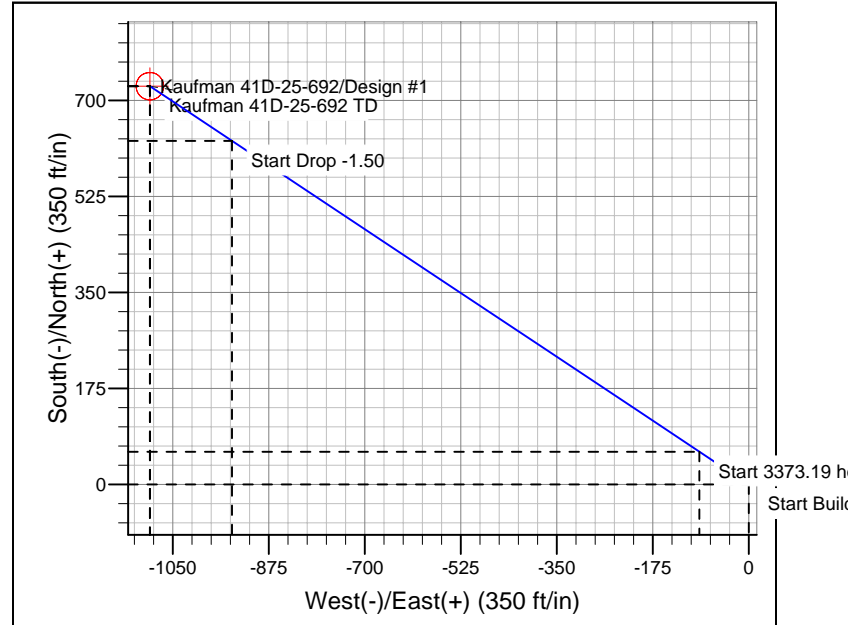
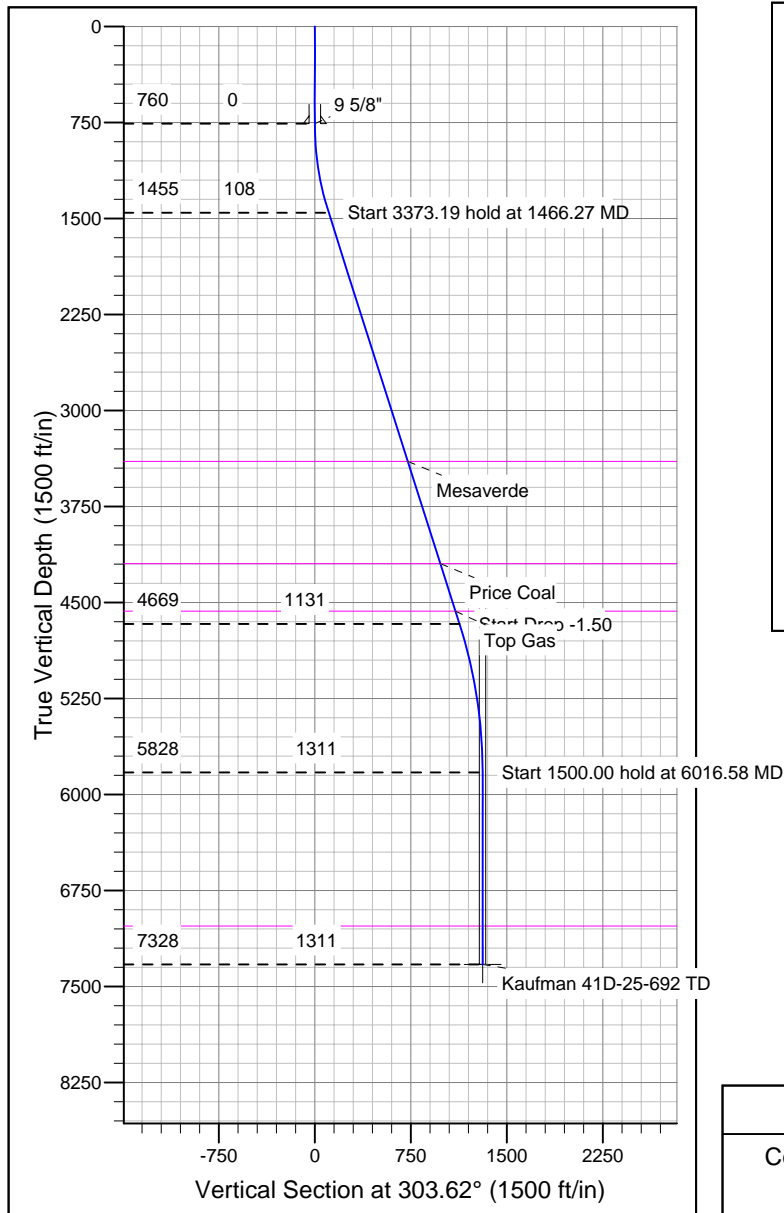
Magnetic Field
Strength: 52432.4snT
Dip Angle: 65.84°
Date: 12/29/2009
Model: BGGM2007

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	1466.27	17.66	303.62	1455.14	59.78	-89.90	2.50	303.62	107.97	
4	39.46	17.66	303.62	4669.43	626.33	-941.86	0.00	0.00	131.10	
5	16.58	0.00	0.00	5828.00	725.97	1091.69	1.50	180.00	311.04	
6	16.58	0.00	0.00	7328.00	725.97	1091.69	0.00	0.00	311.04	Kaufman 41D-25-692 TD

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Kaufman 41D-25-692	725.97	-1091.69		Circle (Radius: 25.00)



CASING DETAILS

TVD	MD	Name	Size
760.00	760.00	9 5/8"	9-5/8

FORMATION TOP DETAILS

TVD	MD	Formation
3398.00	3505.18	Mesaverde
4198.00	4344.73	Price Coal
4568.00	4733.02	Top Gas
7028.00	7216.58	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Kaufman 41D-25-692, True North
 Vertical (TVD) Reference: WELL @ 5786.00ft (Original Well Elev)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: WELL @ 5786.00ft (Original Well Elev)
 Calculation Method: Minimum Curvature