

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Werner Pad(s) SWSE-23-692

Werner 43B-23-692

Wellbore #1

Plan: Design #1

Standard Planning Report

14 December, 2009

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 43B-23-692
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Werner Pad(s) SWSE-23-692	North Reference:	True
Well:	Werner 43B-23-692	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	Werner Pad(s) SWSE-23-692				
Site Position:		Northing:	1,616,896.898 ft	Latitude:	39° 30' 28.134 N
From:	Lat/Long	Easting:	2,399,006.620 ft	Longitude:	107° 37' 48.7956 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-1.34 °

Well	Werner 43B-23-692					
Well Position	+N/-S	-16.04 ft	Northing:	1,616,880.860 ft	Latitude:	39° 30' 27.975 N
	+E/-W	0.28 ft	Easting:	2,399,006.526 ft	Longitude:	107° 37' 48.7920 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	12/14/2009	10.44	65.84	52,483

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	42.94

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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,505.02	17.63	42.94	1,493.96	78.77	73.29	2.50	2.50	0.00	42.94	
4,689.99	17.63	42.94	4,529.41	784.81	730.21	0.00	0.00	0.00	0.00	
5,865.03	0.00	0.00	5,686.00	916.09	852.36	1.50	-1.50	0.00	180.00	
7,865.03	0.00	0.00	7,686.00	916.09	852.36	0.00	0.00	0.00	0.00	Werner 43B-23-692

BBC

Planning Report

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Site: Werner Pad(s) SWSE-23-692
Well: Werner 43B-23-692
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Werner 43B-23-692
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
900.00	2.50	42.94	899.97	1.60	1.49	2.18	2.50	2.50	0.00
1,000.00	5.00	42.94	999.75	6.38	5.94	8.72	2.50	2.50	0.00
1,100.00	7.50	42.94	1,099.14	14.35	13.36	19.61	2.50	2.50	0.00
1,200.00	10.00	42.94	1,197.97	25.49	23.72	34.82	2.50	2.50	0.00
1,300.00	12.50	42.94	1,296.04	39.77	37.01	54.33	2.50	2.50	0.00
1,400.00	15.00	42.94	1,393.17	57.17	53.19	78.09	2.50	2.50	0.00
1,500.00	17.50	42.94	1,489.17	77.66	72.25	106.07	2.50	2.50	0.00
1,505.02	17.63	42.94	1,493.96	78.77	73.29	107.59	2.50	2.50	0.00
1,600.00	17.63	42.94	1,584.47	99.82	92.88	136.35	0.00	0.00	0.00
1,700.00	17.63	42.94	1,679.78	121.99	113.50	166.63	0.00	0.00	0.00
1,800.00	17.63	42.94	1,775.09	144.16	134.13	196.91	0.00	0.00	0.00
1,900.00	17.63	42.94	1,870.39	166.33	154.75	227.19	0.00	0.00	0.00
2,000.00	17.63	42.94	1,965.70	188.49	175.38	257.46	0.00	0.00	0.00
2,100.00	17.63	42.94	2,061.00	210.66	196.01	287.74	0.00	0.00	0.00
2,200.00	17.63	42.94	2,156.31	232.83	216.63	318.02	0.00	0.00	0.00
2,300.00	17.63	42.94	2,251.61	255.00	237.26	348.30	0.00	0.00	0.00
2,400.00	17.63	42.94	2,346.92	277.17	257.88	378.58	0.00	0.00	0.00
2,500.00	17.63	42.94	2,442.22	299.33	278.51	408.86	0.00	0.00	0.00
2,600.00	17.63	42.94	2,537.53	321.50	299.13	439.14	0.00	0.00	0.00
2,700.00	17.63	42.94	2,632.84	343.67	319.76	469.42	0.00	0.00	0.00
2,800.00	17.63	42.94	2,728.14	365.84	340.39	499.70	0.00	0.00	0.00
2,900.00	17.63	42.94	2,823.45	388.01	361.01	529.98	0.00	0.00	0.00
3,000.00	17.63	42.94	2,918.75	410.17	381.64	560.26	0.00	0.00	0.00
3,100.00	17.63	42.94	3,014.06	432.34	402.26	590.54	0.00	0.00	0.00
3,200.00	17.63	42.94	3,109.36	454.51	422.89	620.82	0.00	0.00	0.00
3,300.00	17.63	42.94	3,204.67	476.68	443.51	651.10	0.00	0.00	0.00
3,400.00	17.63	42.94	3,299.97	498.85	464.14	681.38	0.00	0.00	0.00
3,500.00	17.63	42.94	3,395.28	521.01	484.77	711.66	0.00	0.00	0.00
3,600.00	17.63	42.94	3,490.59	543.18	505.39	741.94	0.00	0.00	0.00
3,700.00	17.63	42.94	3,585.89	565.35	526.02	772.22	0.00	0.00	0.00
3,800.00	17.63	42.94	3,681.20	587.52	546.64	802.49	0.00	0.00	0.00
3,867.99	17.63	42.94	3,746.00	602.59	560.67	823.08	0.00	0.00	0.00
Mesaverde									
3,900.00	17.63	42.94	3,776.50	609.69	567.27	832.77	0.00	0.00	0.00
4,000.00	17.63	42.94	3,871.81	631.86	587.90	863.05	0.00	0.00	0.00
4,100.00	17.63	42.94	3,967.11	654.02	608.52	893.33	0.00	0.00	0.00
4,200.00	17.63	42.94	4,062.42	676.19	629.15	923.61	0.00	0.00	0.00
4,300.00	17.63	42.94	4,157.73	698.36	649.77	953.89	0.00	0.00	0.00
4,400.00	17.63	42.94	4,253.03	720.53	670.40	984.17	0.00	0.00	0.00
4,500.00	17.63	42.94	4,348.34	742.70	691.02	1,014.45	0.00	0.00	0.00
4,600.00	17.63	42.94	4,443.64	764.86	711.65	1,044.73	0.00	0.00	0.00
4,689.99	17.63	42.94	4,529.41	784.81	730.21	1,071.98	0.00	0.00	0.00
4,700.00	17.48	42.94	4,538.95	787.02	732.27	1,075.00	1.50	-1.50	0.00

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Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Werner 43B-23-692
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Buird Rate (°/100ft)	Turn Rate (°/100ft)
4,749.23	16.74	42.94	4,586.00	797.62	742.13	1,089.48	1.50	-1.50	0.00
Price Coal									
4,800.00	15.98	42.94	4,634.72	808.09	751.87	1,103.78	1.50	-1.50	0.00
4,900.00	14.48	42.94	4,731.21	827.32	769.76	1,130.04	1.50	-1.50	0.00
5,000.00	12.98	42.94	4,828.35	844.69	785.92	1,153.76	1.50	-1.50	0.00
5,100.00	11.48	42.94	4,926.08	860.19	800.34	1,174.94	1.50	-1.50	0.00
5,200.00	9.98	42.94	5,024.33	873.81	813.02	1,193.55	1.50	-1.50	0.00
5,300.00	8.48	42.94	5,123.03	885.55	823.94	1,209.58	1.50	-1.50	0.00
5,400.00	6.98	42.94	5,222.12	895.39	833.10	1,223.02	1.50	-1.50	0.00
5,500.00	5.48	42.94	5,321.53	903.33	840.48	1,233.86	1.50	-1.50	0.00
5,569.73	4.43	42.94	5,391.00	907.74	844.59	1,239.88	1.50	-1.50	0.00
Top Gas									
5,600.00	3.98	42.94	5,421.18	909.36	846.10	1,242.10	1.50	-1.50	0.00
5,700.00	2.48	42.94	5,521.02	913.48	849.93	1,247.73	1.50	-1.50	0.00
5,800.00	0.98	42.94	5,620.98	915.69	851.98	1,250.74	1.50	-1.50	0.00
5,865.03	0.00	0.00	5,686.00	916.09	852.36	1,251.29	1.50	-1.50	0.00
5,900.00	0.00	0.00	5,720.97	916.09	852.36	1,251.29	0.00	0.00	0.00
6,000.00	0.00	0.00	5,820.97	916.09	852.36	1,251.29	0.00	0.00	0.00
6,100.00	0.00	0.00	5,920.97	916.09	852.36	1,251.29	0.00	0.00	0.00
6,200.00	0.00	0.00	6,020.97	916.09	852.36	1,251.29	0.00	0.00	0.00
6,300.00	0.00	0.00	6,120.97	916.09	852.36	1,251.29	0.00	0.00	0.00
6,400.00	0.00	0.00	6,220.97	916.09	852.36	1,251.29	0.00	0.00	0.00
6,500.00	0.00	0.00	6,320.97	916.09	852.36	1,251.29	0.00	0.00	0.00
6,600.00	0.00	0.00	6,420.97	916.09	852.36	1,251.29	0.00	0.00	0.00
6,700.00	0.00	0.00	6,520.97	916.09	852.36	1,251.29	0.00	0.00	0.00
6,800.00	0.00	0.00	6,620.97	916.09	852.36	1,251.29	0.00	0.00	0.00
6,900.00	0.00	0.00	6,720.97	916.09	852.36	1,251.29	0.00	0.00	0.00
7,000.00	0.00	0.00	6,820.97	916.09	852.36	1,251.29	0.00	0.00	0.00
7,100.00	0.00	0.00	6,920.97	916.09	852.36	1,251.29	0.00	0.00	0.00
7,200.00	0.00	0.00	7,020.97	916.09	852.36	1,251.29	0.00	0.00	0.00
7,300.00	0.00	0.00	7,120.97	916.09	852.36	1,251.29	0.00	0.00	0.00
7,400.00	0.00	0.00	7,220.97	916.09	852.36	1,251.29	0.00	0.00	0.00
7,500.00	0.00	0.00	7,320.97	916.09	852.36	1,251.29	0.00	0.00	0.00
7,565.03	0.00	0.00	7,386.00	916.09	852.36	1,251.29	0.00	0.00	0.00
Rollins									
7,600.00	0.00	0.00	7,420.97	916.09	852.36	1,251.29	0.00	0.00	0.00
7,700.00	0.00	0.00	7,520.97	916.09	852.36	1,251.29	0.00	0.00	0.00
7,800.00	0.00	0.00	7,620.97	916.09	852.36	1,251.29	0.00	0.00	0.00
7,865.03	0.00	0.00	7,686.00	916.09	852.36	1,251.29	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
800.00	800.00	9 5/8"	9-5/8	12-1/4

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 43B-23-692
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Werner Pad(s) SWSE-23-692	North Reference:	True
Well:	Werner 43B-23-692	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,867.99	3,746.00	Mesaverde		0.00	
4,749.23	4,586.00	Price Coal		0.00	
5,569.73	5,391.00	Top Gas		0.00	
7,565.03	7,386.00	Rollins		0.00	