

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Werner Pad(s) SWSE-23-692

Werner 44B-23-692

Wellbore #1

Plan: Design #1

Standard Planning Report

14 December, 2009

BBC
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 44B-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 44B-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 44B-23-692			
Well Position	+N/-S	-64.12 ft	Northing:	1,616,832.781 ft
	+E/-W	0.85 ft	Easting:	2,399,005.963 ft
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	Tile On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	111.75

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	
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,283.58	10.84	111.75	1,281.00	-15.15	37.98	2.50	2.50	0.00	111.75	
5,653.21	10.84	111.75	5,572.66	-319.66	801.23	0.00	0.00	0.00	0.00	
6,375.85	0.00	0.00	6,291.00	-344.91	864.53	1.50	-1.50	0.00	180.00	
8,375.85	0.00	0.00	8,291.00	-344.91	864.53	0.00	0.00	0.00	0.00	Werner 44B-23-692

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 44B-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 44B-23-692	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)	Bulld 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
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
900.00	1.25	111.75	900.00	-0.20	0.51	0.55	2.50	2.50	0.00
1,000.00	3.75	111.75	999.89	-1.82	4.56	4.91	2.50	2.50	0.00
1,100.00	6.25	111.75	1,099.50	-5.05	12.65	13.62	2.50	2.50	0.00
1,200.00	8.75	111.75	1,198.64	-9.88	24.77	26.67	2.50	2.50	0.00
1,283.58	10.84	111.75	1,281.00	-15.15	37.98	40.89	2.50	2.50	0.00
1,300.00	10.84	111.75	1,297.13	-16.30	40.85	43.98	0.00	0.00	0.00
1,400.00	10.84	111.75	1,395.34	-23.27	58.32	62.79	0.00	0.00	0.00
1,500.00	10.84	111.75	1,493.56	-30.23	75.78	81.59	0.00	0.00	0.00
1,600.00	10.84	111.75	1,591.77	-37.20	93.25	100.40	0.00	0.00	0.00
1,700.00	10.84	111.75	1,689.99	-44.17	110.72	119.20	0.00	0.00	0.00
1,800.00	10.84	111.75	1,788.20	-51.14	128.18	138.01	0.00	0.00	0.00
1,900.00	10.84	111.75	1,886.42	-58.11	145.65	156.82	0.00	0.00	0.00
2,000.00	10.84	111.75	1,984.64	-65.08	163.12	175.62	0.00	0.00	0.00
2,100.00	10.84	111.75	2,082.85	-72.05	180.59	194.43	0.00	0.00	0.00
2,200.00	10.84	111.75	2,181.07	-79.02	198.05	213.23	0.00	0.00	0.00
2,300.00	10.84	111.75	2,279.28	-85.98	215.52	232.04	0.00	0.00	0.00
2,400.00	10.84	111.75	2,377.50	-92.95	232.99	250.84	0.00	0.00	0.00
2,500.00	10.84	111.75	2,475.71	-99.92	250.45	269.65	0.00	0.00	0.00
2,600.00	10.84	111.75	2,573.93	-106.89	267.92	288.46	0.00	0.00	0.00
2,700.00	10.84	111.75	2,672.15	-113.86	285.39	307.26	0.00	0.00	0.00
2,800.00	10.84	111.75	2,770.36	-120.83	302.86	326.07	0.00	0.00	0.00
2,900.00	10.84	111.75	2,868.58	-127.80	320.32	344.87	0.00	0.00	0.00
3,000.00	10.84	111.75	2,966.79	-134.76	337.79	363.68	0.00	0.00	0.00
3,100.00	10.84	111.75	3,065.01	-141.73	355.26	382.49	0.00	0.00	0.00
3,200.00	10.84	111.75	3,163.22	-148.70	372.72	401.29	0.00	0.00	0.00
3,300.00	10.84	111.75	3,261.44	-155.67	390.19	420.10	0.00	0.00	0.00
3,400.00	10.84	111.75	3,359.66	-162.64	407.66	438.90	0.00	0.00	0.00
3,500.00	10.84	111.75	3,457.87	-169.61	425.13	457.71	0.00	0.00	0.00
3,600.00	10.84	111.75	3,556.09	-176.58	442.59	476.52	0.00	0.00	0.00
3,700.00	10.84	111.75	3,654.30	-183.55	460.06	495.32	0.00	0.00	0.00
3,752.64	10.84	111.75	3,706.00	-187.21	469.25	505.22	0.00	0.00	0.00
Mesaverde									
3,800.00	10.84	111.75	3,752.52	-190.51	477.53	514.13	0.00	0.00	0.00
3,900.00	10.84	111.75	3,850.73	-197.48	494.99	532.93	0.00	0.00	0.00
4,000.00	10.84	111.75	3,948.95	-204.45	512.46	551.74	0.00	0.00	0.00
4,100.00	10.84	111.75	4,047.17	-211.42	529.93	570.55	0.00	0.00	0.00
4,200.00	10.84	111.75	4,145.38	-218.39	547.40	589.35	0.00	0.00	0.00
4,300.00	10.84	111.75	4,243.60	-225.36	564.86	608.16	0.00	0.00	0.00
4,400.00	10.84	111.75	4,341.81	-232.33	582.33	626.96	0.00	0.00	0.00
4,500.00	10.84	111.75	4,440.03	-239.30	599.80	645.77	0.00	0.00	0.00
4,587.53	10.84	111.75	4,526.00	-245.39	615.09	662.23	0.00	0.00	0.00
Price Coal									

BBC

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Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Werner 44B-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)	Bulld Rate (°/100ft)	Turn Rate (°/100ft)
4,600.00	10.84	111.75	4,538.25	-246.26	617.27	664.58	0.00	0.00	0.00
4,700.00	10.84	111.75	4,636.46	-253.23	634.73	683.38	0.00	0.00	0.00
4,800.00	10.84	111.75	4,734.68	-260.20	652.20	702.19	0.00	0.00	0.00
4,900.00	10.84	111.75	4,832.89	-267.17	669.67	720.99	0.00	0.00	0.00
5,000.00	10.84	111.75	4,931.11	-274.14	687.13	739.80	0.00	0.00	0.00
5,100.00	10.84	111.75	5,029.32	-281.11	704.60	758.61	0.00	0.00	0.00
5,200.00	10.84	111.75	5,127.54	-288.08	722.07	777.41	0.00	0.00	0.00
5,300.00	10.84	111.75	5,225.76	-295.04	739.54	796.22	0.00	0.00	0.00
5,366.43	10.84	111.75	5,291.00	-299.67	751.14	808.71	0.00	0.00	0.00
Top Gas									
5,400.00	10.84	111.75	5,323.97	-302.01	757.00	815.02	0.00	0.00	0.00
5,500.00	10.84	111.75	5,422.19	-308.98	774.47	833.83	0.00	0.00	0.00
5,600.00	10.84	111.75	5,520.40	-315.95	791.94	852.64	0.00	0.00	0.00
5,653.21	10.84	111.75	5,572.66	-319.66	801.23	862.64	0.00	0.00	0.00
5,700.00	10.14	111.75	5,618.67	-322.82	809.14	871.16	1.50	-1.50	0.00
5,800.00	8.64	111.75	5,717.33	-328.86	824.29	887.47	1.50	-1.50	0.00
5,900.00	7.14	111.75	5,816.38	-333.94	837.04	901.19	1.50	-1.50	0.00
6,000.00	5.64	111.75	5,915.76	-338.07	847.37	912.32	1.50	-1.50	0.00
6,100.00	4.14	111.75	6,015.39	-341.22	855.29	920.84	1.50	-1.50	0.00
6,200.00	2.64	111.75	6,115.21	-343.41	860.77	926.75	1.50	-1.50	0.00
6,300.00	1.14	111.75	6,215.16	-344.63	863.83	930.04	1.50	-1.50	0.00
6,375.85	0.00	0.00	6,291.00	-344.91	864.53	930.80	1.50	-1.50	0.00
6,400.00	0.00	0.00	6,315.15	-344.91	864.53	930.80	0.00	0.00	0.00
6,500.00	0.00	0.00	6,415.15	-344.91	864.53	930.80	0.00	0.00	0.00
6,600.00	0.00	0.00	6,515.15	-344.91	864.53	930.80	0.00	0.00	0.00
6,700.00	0.00	0.00	6,615.15	-344.91	864.53	930.80	0.00	0.00	0.00
6,800.00	0.00	0.00	6,715.15	-344.91	864.53	930.80	0.00	0.00	0.00
6,900.00	0.00	0.00	6,815.15	-344.91	864.53	930.80	0.00	0.00	0.00
7,000.00	0.00	0.00	6,915.15	-344.91	864.53	930.80	0.00	0.00	0.00
7,100.00	0.00	0.00	7,015.15	-344.91	864.53	930.80	0.00	0.00	0.00
7,200.00	0.00	0.00	7,115.15	-344.91	864.53	930.80	0.00	0.00	0.00
7,300.00	0.00	0.00	7,215.15	-344.91	864.53	930.80	0.00	0.00	0.00
7,390.85	0.00	0.00	7,306.00	-344.91	864.53	930.80	0.00	0.00	0.00
Rollins									
7,400.00	0.00	0.00	7,315.15	-344.91	864.53	930.80	0.00	0.00	0.00
7,500.00	0.00	0.00	7,415.15	-344.91	864.53	930.80	0.00	0.00	0.00
7,600.00	0.00	0.00	7,515.15	-344.91	864.53	930.80	0.00	0.00	0.00
7,700.00	0.00	0.00	7,615.15	-344.91	864.53	930.80	0.00	0.00	0.00
7,800.00	0.00	0.00	7,715.15	-344.91	864.53	930.80	0.00	0.00	0.00
7,900.00	0.00	0.00	7,815.15	-344.91	864.53	930.80	0.00	0.00	0.00
8,000.00	0.00	0.00	7,915.15	-344.91	864.53	930.80	0.00	0.00	0.00
8,075.85	0.00	0.00	7,991.00	-344.91	864.53	930.80	0.00	0.00	0.00
CRCN									
8,100.00	0.00	0.00	8,015.15	-344.91	864.53	930.80	0.00	0.00	0.00
8,200.00	0.00	0.00	8,115.15	-344.91	864.53	930.80	0.00	0.00	0.00
8,300.00	0.00	0.00	8,215.15	-344.91	864.53	930.80	0.00	0.00	0.00
8,375.85	0.00	0.00	8,291.00	-344.91	864.53	930.80	0.00	0.00	0.00

BBC
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 44B-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 44B-23-692	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
850.00	850.00	9 5/8"	9-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,752.64	3,706.00	Mesaverde		0.00		
4,587.53	4,526.00	Price Coal		0.00		
5,366.43	5,291.00	Top Gas		0.00		
7,390.85	7,306.00	Rollins		0.00		
8,075.85	7,991.00	CRCN		0.00		

WELL DETAILS: Werner 44B-23-692

Ground Level: 0.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1616832.781 2399005.963 39° 30' 27.500N 107° 37' 48.7848 W



Azimuths to True North
 Magnetic North: 10.44°

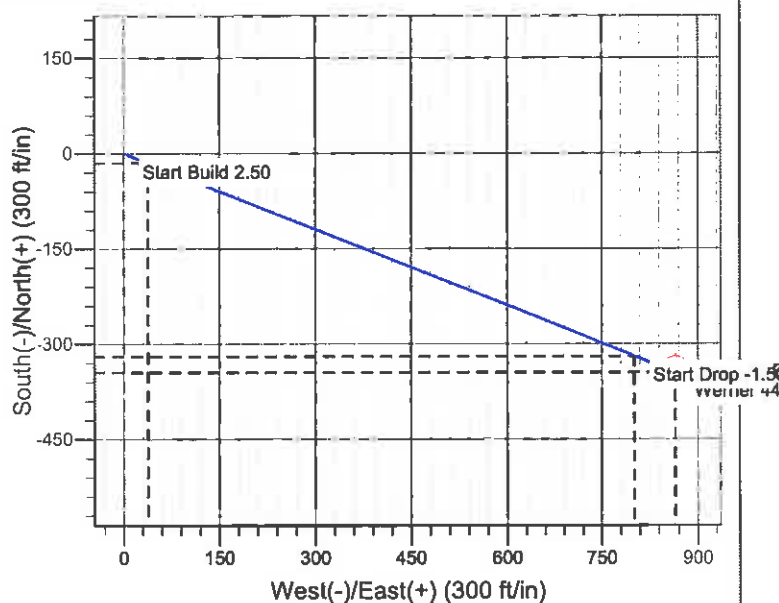
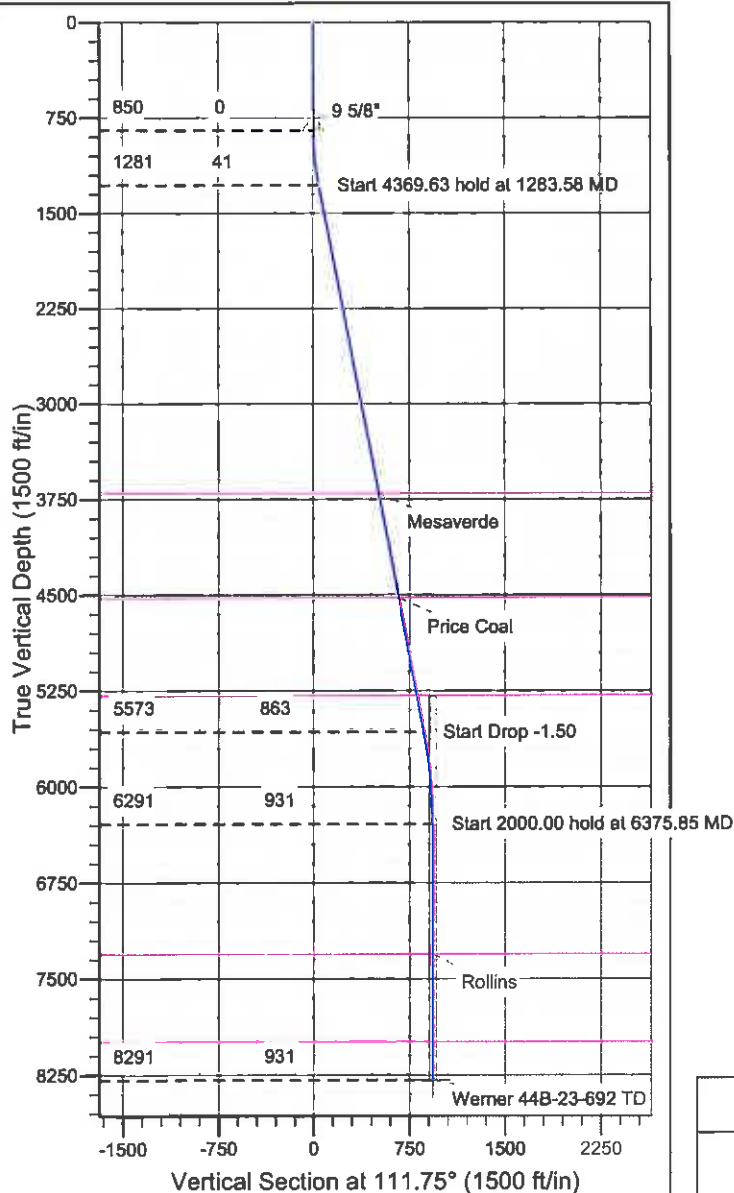
Magnetic Field
 Strength: 52482.7snT
 Dip Angle: 65.84°
 Date: 12/14/2009
 Model: BGGM2007

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	850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	
3	283.58	10.84	111.75	1281.00	-15.15	37.98	2.50	111.75	40.89	
4	653.21	10.84	111.75	5572.66	-319.66	801.23	0.00	0.00	862.64	
5	375.85	0.00	0.00	6291.00	-344.91	864.53	1.50	180.00	930.80	
6	375.85	0.00	0.00	8291.00	-344.91	864.53	0.00	0.00	930.80	Werner 44B-23-692 TD

WELLBORE TARGET DETAILS

Name TVD +N/-S +E/-W Shape
 Werner 44B-23-692 TD -344.91 864.53 Circle (Radius: 25.00)



CASING DETAILS

TVD MD Name Size
 850.00 850.00 9 5/8" 9-5/8

FORMATION TOP DETAILS

TVDPath MDPPath Formation
 3706.00 3752.64 Mesaverde
 4526.00 4587.53 Price Coal
 5291.00 5366.43 Top Gas
 7306.00 7390.85 Rollins
 7991.00 8075.85 CRCN

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Werner 44B-23-692, True North
 Vertical (TVD) Reference: WELL @ 0.00ft (Original Well Elev)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: WELL @ 0.00ft (Original Well Elev)
 Calculation Method: Minimum Curvature