

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Werner Pad(s) SWSE-23-692

Werner 31D-26-692

Wellbore #1

Plan: Design #1

Standard Planning Report

14 December, 2009

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 31D-26-692
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 31D-26-692	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 31D-26-692			
Well Position	+N/-S	-330.38 ft	Northing:	1,616,568.473 ft
	+E/-W	-79.29 ft	Easting:	2,398,919.610 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	52,482

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	207.62

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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,244.76	11.12	207.62	1,241.97	-38.12	-19.95	2.50	2.50	0.00	207.62	
4,906.91	11.12	207.62	4,835.38	-663.85	-347.40	0.00	0.00	0.00	0.00	
5,648.17	0.00	0.00	5,572.00	-727.38	-380.64	1.50	-1.50	0.00	180.00	
7,648.17	0.00	0.00	7,572.00	-727.38	-380.64	0.00	0.00	0.00	0.00	Werner 31D-26-692

BBC Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 31D-26-692
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 31D-26-692	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
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	207.62	899.97	-1.93	-1.01	2.18	2.50	2.50	0.00
1,000.00	5.00	207.62	999.75	-7.73	-4.04	8.72	2.50	2.50	0.00
1,100.00	7.50	207.62	1,099.14	-17.37	-9.09	19.61	2.50	2.50	0.00
1,200.00	10.00	207.62	1,197.97	-30.85	-16.14	34.82	2.50	2.50	0.00
1,244.76	11.12	207.62	1,241.97	-38.12	-19.95	43.02	2.50	2.50	0.00
1,300.00	11.12	207.62	1,296.18	-47.56	-24.89	53.67	0.00	0.00	0.00
1,400.00	11.12	207.62	1,394.30	-64.64	-33.83	72.96	0.00	0.00	0.00
1,500.00	11.12	207.62	1,492.42	-81.73	-42.77	92.24	0.00	0.00	0.00
1,600.00	11.12	207.62	1,590.55	-98.81	-51.71	111.53	0.00	0.00	0.00
1,700.00	11.12	207.62	1,688.67	-115.90	-60.65	130.81	0.00	0.00	0.00
1,800.00	11.12	207.62	1,786.79	-132.99	-69.59	150.10	0.00	0.00	0.00
1,900.00	11.12	207.62	1,884.91	-150.07	-78.53	169.38	0.00	0.00	0.00
2,000.00	11.12	207.62	1,983.04	-167.16	-87.48	188.67	0.00	0.00	0.00
2,100.00	11.12	207.62	2,081.16	-184.25	-96.42	207.95	0.00	0.00	0.00
2,200.00	11.12	207.62	2,179.28	-201.33	-105.36	227.24	0.00	0.00	0.00
2,300.00	11.12	207.62	2,277.41	-218.42	-114.30	246.52	0.00	0.00	0.00
2,400.00	11.12	207.62	2,375.53	-235.51	-123.24	265.80	0.00	0.00	0.00
2,500.00	11.12	207.62	2,473.65	-252.59	-132.18	285.09	0.00	0.00	0.00
2,600.00	11.12	207.62	2,571.77	-269.68	-141.13	304.37	0.00	0.00	0.00
2,700.00	11.12	207.62	2,669.90	-286.77	-150.07	323.66	0.00	0.00	0.00
2,800.00	11.12	207.62	2,768.02	-303.85	-159.01	342.94	0.00	0.00	0.00
2,900.00	11.12	207.62	2,866.14	-320.94	-167.95	362.23	0.00	0.00	0.00
3,000.00	11.12	207.62	2,964.27	-338.03	-176.89	381.51	0.00	0.00	0.00
3,100.00	11.12	207.62	3,062.39	-355.11	-185.83	400.80	0.00	0.00	0.00
3,200.00	11.12	207.62	3,160.51	-372.20	-194.77	420.08	0.00	0.00	0.00
3,300.00	11.12	207.62	3,258.63	-389.29	-203.72	439.37	0.00	0.00	0.00
3,400.00	11.12	207.62	3,356.76	-406.37	-212.66	458.65	0.00	0.00	0.00
3,500.00	11.12	207.62	3,454.88	-423.46	-221.60	477.94	0.00	0.00	0.00
3,600.00	11.12	207.62	3,553.00	-440.55	-230.54	497.22	0.00	0.00	0.00
3,690.70	11.12	207.62	3,642.00	-456.04	-238.65	514.71	0.00	0.00	0.00
Mesaverde									
3,700.00	11.12	207.62	3,651.13	-457.63	-239.48	516.51	0.00	0.00	0.00
3,800.00	11.12	207.62	3,749.25	-474.72	-248.42	535.79	0.00	0.00	0.00
3,900.00	11.12	207.62	3,847.37	-491.81	-257.36	555.08	0.00	0.00	0.00
4,000.00	11.12	207.62	3,945.49	-508.89	-266.31	574.36	0.00	0.00	0.00
4,100.00	11.12	207.62	4,043.62	-525.98	-275.25	593.64	0.00	0.00	0.00
4,200.00	11.12	207.62	4,141.74	-543.06	-284.19	612.93	0.00	0.00	0.00
4,300.00	11.12	207.62	4,239.86	-560.15	-293.13	632.21	0.00	0.00	0.00
4,400.00	11.12	207.62	4,337.99	-577.24	-302.07	651.50	0.00	0.00	0.00
4,500.00	11.12	207.62	4,436.11	-594.32	-311.01	670.78	0.00	0.00	0.00
4,577.34	11.12	207.62	4,512.00	-607.54	-317.93	685.70	0.00	0.00	0.00
Price Coal									
4,600.00	11.12	207.62	4,534.23	-611.41	-319.95	690.07	0.00	0.00	0.00

BBC Planning Report

Database: Compass
Company: BILL BARRETT CORP
Project: GARFIELD COUNTY, COLORADO NAD 1983
Site: Werner Pad(s) SWSE-23-692
Well: Werner 31D-26-692
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Werner 31D-26-692
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)
4,700.00	11.12	207.62	4,632.35	-628.50	-328.90	709.35	0.00	0.00	0.00
4,800.00	11.12	207.62	4,730.48	-645.58	-337.84	728.64	0.00	0.00	0.00
4,900.00	11.12	207.62	4,828.60	-662.67	-346.78	747.92	0.00	0.00	0.00
4,906.91	11.12	207.62	4,835.38	-663.85	-347.40	749.25	0.00	0.00	0.00
5,000.00	9.72	207.62	4,926.93	-678.77	-355.20	766.09	1.50	-1.50	0.00
5,100.00	8.22	207.62	5,025.71	-692.59	-362.43	781.69	1.50	-1.50	0.00
5,200.00	6.72	207.62	5,124.85	-704.11	-368.46	794.69	1.50	-1.50	0.00
5,300.00	5.22	207.62	5,224.31	-713.33	-373.29	805.10	1.50	-1.50	0.00
5,400.00	3.72	207.62	5,324.00	-720.24	-376.90	812.90	1.50	-1.50	0.00
5,403.00	3.68	207.62	5,327.00	-720.41	-376.99	813.09	1.50	-1.50	0.00
Top Gas									
5,500.00	2.22	207.62	5,423.86	-724.83	-379.31	818.08	1.50	-1.50	0.00
5,600.00	0.72	207.62	5,523.83	-727.11	-380.50	820.65	1.50	-1.50	0.00
5,648.17	0.00	0.00	5,572.00	-727.38	-380.64	820.96	1.50	-1.50	0.00
5,700.00	0.00	0.00	5,623.83	-727.38	-380.64	820.96	0.00	0.00	0.00
5,800.00	0.00	0.00	5,723.83	-727.38	-380.64	820.96	0.00	0.00	0.00
5,900.00	0.00	0.00	5,823.83	-727.38	-380.64	820.96	0.00	0.00	0.00
6,000.00	0.00	0.00	5,923.83	-727.38	-380.64	820.96	0.00	0.00	0.00
6,100.00	0.00	0.00	6,023.83	-727.38	-380.64	820.96	0.00	0.00	0.00
6,200.00	0.00	0.00	6,123.83	-727.38	-380.64	820.96	0.00	0.00	0.00
6,300.00	0.00	0.00	6,223.83	-727.38	-380.64	820.96	0.00	0.00	0.00
6,400.00	0.00	0.00	6,323.83	-727.38	-380.64	820.96	0.00	0.00	0.00
6,500.00	0.00	0.00	6,423.83	-727.38	-380.64	820.96	0.00	0.00	0.00
6,600.00	0.00	0.00	6,523.83	-727.38	-380.64	820.96	0.00	0.00	0.00
6,700.00	0.00	0.00	6,623.83	-727.38	-380.64	820.96	0.00	0.00	0.00
6,800.00	0.00	0.00	6,723.83	-727.38	-380.64	820.96	0.00	0.00	0.00
6,900.00	0.00	0.00	6,823.83	-727.38	-380.64	820.96	0.00	0.00	0.00
7,000.00	0.00	0.00	6,923.83	-727.38	-380.64	820.96	0.00	0.00	0.00
7,100.00	0.00	0.00	7,023.83	-727.38	-380.64	820.96	0.00	0.00	0.00
7,200.00	0.00	0.00	7,123.83	-727.38	-380.64	820.96	0.00	0.00	0.00
7,300.00	0.00	0.00	7,223.83	-727.38	-380.64	820.96	0.00	0.00	0.00
7,348.17	0.00	0.00	7,272.00	-727.38	-380.64	820.96	0.00	0.00	0.00
Rollins									
7,400.00	0.00	0.00	7,323.83	-727.38	-380.64	820.96	0.00	0.00	0.00
7,500.00	0.00	0.00	7,423.83	-727.38	-380.64	820.96	0.00	0.00	0.00
7,600.00	0.00	0.00	7,523.83	-727.38	-380.64	820.96	0.00	0.00	0.00
7,648.17	0.00	0.00	7,572.00	-727.38	-380.64	820.96	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 31D-26-692
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 31D-26-692	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,690.70	3,642.00	Mesaverde		0.00		
4,577.34	4,512.00	Price Coal		0.00		
5,403.00	5,327.00	Top Gas		0.00		
7,348.17	7,272.00	Rollins		0.00		

WELL DETAILS: Werner 31D-26-692

Ground Level: 0.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1616568.473 2398919.610 39° 30' 24.8690N 97° 37' 49.8072 W



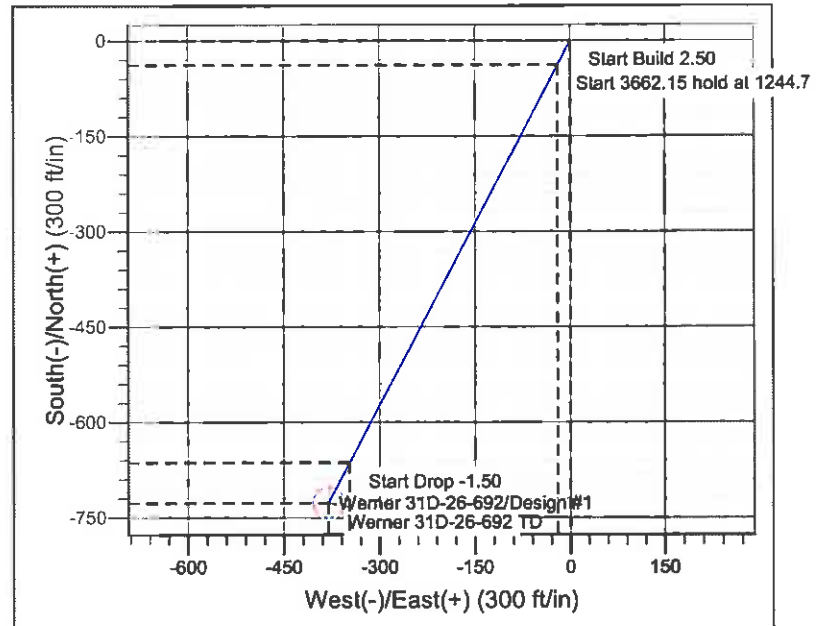
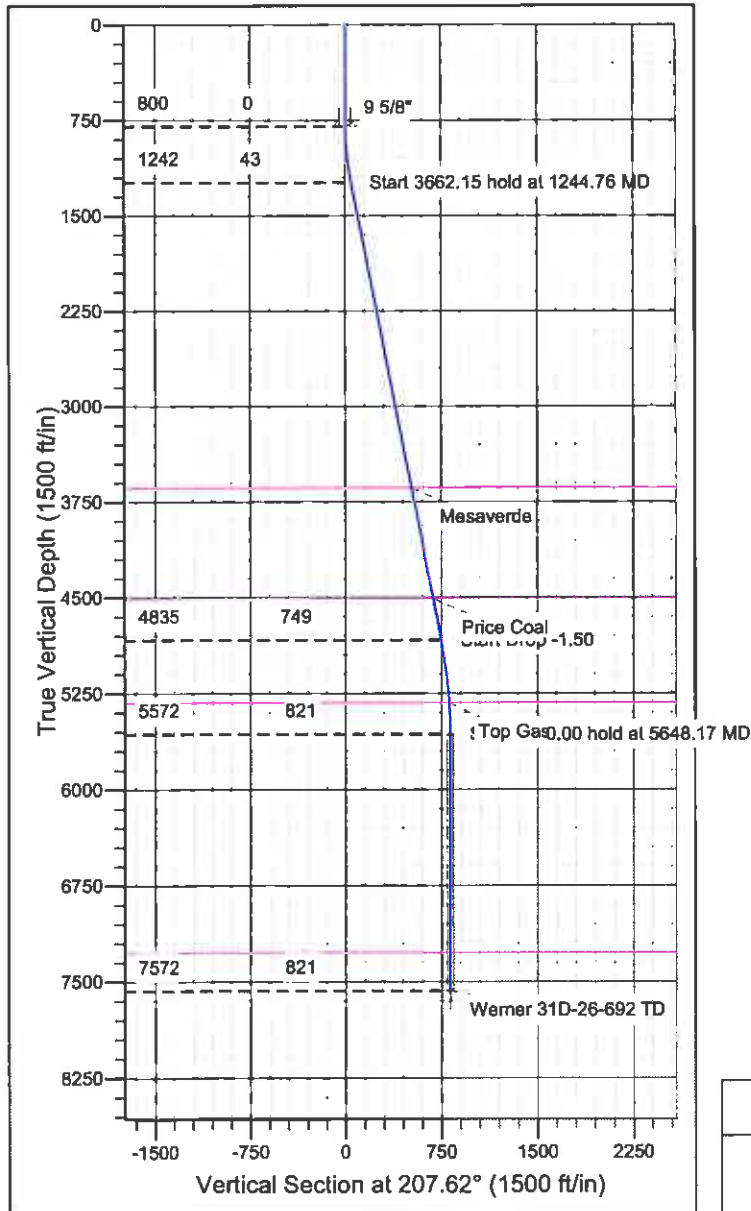
Azimuths to True North
 Magnetic North: 10.46°
 Magnetic Field
 Strength: 52482.2snT
 Dip Angle: 65.84°
 Date: 12/14/2009
 Model: BGGM2007

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2 800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3 244.76	11.12	207.62	1241.97	-38.12	-19.95	2.50	207.62	43.02	
4 906.91	11.12	207.62	4835.38	-663.85	-347.40	0.00	0.00	749.25	
5 648.17	0.00	0.00	5572.00	-727.38	-380.64	1.50	180.00	820.96	
6 648.17	0.00	0.00	7572.00	-727.38	-380.64	0.00	0.00	820.96	Werner 31D-26-692 TD

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Werner 31D-26-692 TD	7572.00	-727.38	-380.64	Circle (Radius: 25.00)



CASING DETAILS

TVD	MD	Name	Size
800.00	800.00	9 5/8"	9-5/8

FORMATION TOP DETAILS

TVDPATH	MDPATH	Formation
3642.00	3690.70	Mesaverde
4512.00	4577.34	Price Coal
5327.00	5403.00	Top Gas
7272.00	7348.17	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Werner 31D-26-692, 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