

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Werner Pad(s) SWSE-23-692

Werner 41D-26-692

Wellbore #1

Plan: Design #1

Standard Planning Report

14 December, 2009

BBC
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 41D-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 41D-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 41D-26-692					
Well Position	+N/-S	-329.65 ft	Northing:	1,616,567.329 ft	Latitude:	39° 30' 24.876 N
	+E/-W	0.56 ft	Easting:	2,398,999.455 ft	Longitude:	107° 37' 48.7884 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	52,482

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	129.80

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	
1,446.90	16.17	129.80	1,438.35	-58.05	69.68	2.50	2.50	0.00	129.80	
4,646.25	16.17	129.80	4,511.09	-628.43	754.34	0.00	0.00	0.00	0.00	
5,724.42	0.00	0.00	5,575.00	-725.18	870.48	1.50	-1.50	0.00	180.00	
7,724.42	0.00	0.00	7,575.00	-725.18	870.48	0.00	0.00	0.00	0.00	Werner 41D-26-692

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 41D-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 41D-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	129.80	899.97	-1.40	1.68	2.18	2.50	2.50	0.00
1,000.00	5.00	129.80	999.75	-5.58	6.70	8.72	2.50	2.50	0.00
1,100.00	7.50	129.80	1,099.14	-12.55	15.06	19.61	2.50	2.50	0.00
1,200.00	10.00	129.80	1,197.97	-22.29	26.75	34.82	2.50	2.50	0.00
1,300.00	12.50	129.80	1,296.04	-34.77	41.74	54.33	2.50	2.50	0.00
1,400.00	15.00	129.80	1,393.17	-49.98	60.00	78.09	2.50	2.50	0.00
1,446.90	16.17	129.80	1,438.35	-58.05	69.68	90.69	2.50	2.50	0.00
1,500.00	16.17	129.80	1,489.34	-67.52	81.04	105.48	0.00	0.00	0.00
1,600.00	16.17	129.80	1,585.39	-85.34	102.44	133.34	0.00	0.00	0.00
1,700.00	16.17	129.80	1,681.43	-103.17	123.84	161.19	0.00	0.00	0.00
1,800.00	16.17	129.80	1,777.47	-121.00	145.24	189.04	0.00	0.00	0.00
1,900.00	16.17	129.80	1,873.51	-138.83	166.64	216.90	0.00	0.00	0.00
2,000.00	16.17	129.80	1,969.56	-156.66	188.04	244.75	0.00	0.00	0.00
2,100.00	16.17	129.80	2,065.60	-174.48	209.44	272.60	0.00	0.00	0.00
2,200.00	16.17	129.80	2,161.64	-192.31	230.84	300.46	0.00	0.00	0.00
2,300.00	16.17	129.80	2,257.68	-210.14	252.24	328.31	0.00	0.00	0.00
2,400.00	16.17	129.80	2,353.73	-227.97	273.64	356.16	0.00	0.00	0.00
2,500.00	16.17	129.80	2,449.77	-245.80	295.04	384.01	0.00	0.00	0.00
2,600.00	16.17	129.80	2,545.81	-263.62	316.44	411.87	0.00	0.00	0.00
2,700.00	16.17	129.80	2,641.86	-281.45	337.84	439.72	0.00	0.00	0.00
2,800.00	16.17	129.80	2,737.90	-299.28	359.25	467.57	0.00	0.00	0.00
2,900.00	16.17	129.80	2,833.94	-317.11	380.65	495.43	0.00	0.00	0.00
3,000.00	16.17	129.80	2,929.98	-334.94	402.05	523.28	0.00	0.00	0.00
3,100.00	16.17	129.80	3,026.03	-352.76	423.45	551.13	0.00	0.00	0.00
3,200.00	16.17	129.80	3,122.07	-370.59	444.85	578.99	0.00	0.00	0.00
3,300.00	16.17	129.80	3,218.11	-388.42	466.25	606.84	0.00	0.00	0.00
3,400.00	16.17	129.80	3,314.15	-406.25	487.65	634.69	0.00	0.00	0.00
3,500.00	16.17	129.80	3,410.20	-424.08	509.05	662.55	0.00	0.00	0.00
3,600.00	16.17	129.80	3,506.24	-441.90	530.45	690.40	0.00	0.00	0.00
3,700.00	16.17	129.80	3,602.28	-459.73	551.85	718.25	0.00	0.00	0.00
3,786.13	16.17	129.80	3,685.00	-475.09	570.28	742.24	0.00	0.00	0.00
Mesaverde									
3,800.00	16.17	129.80	3,698.33	-477.56	573.25	746.11	0.00	0.00	0.00
3,900.00	16.17	129.80	3,794.37	-495.39	594.65	773.96	0.00	0.00	0.00
4,000.00	16.17	129.80	3,890.41	-513.22	616.05	801.81	0.00	0.00	0.00
4,100.00	16.17	129.80	3,986.45	-531.04	637.45	829.67	0.00	0.00	0.00
4,200.00	16.17	129.80	4,082.50	-548.87	658.85	857.52	0.00	0.00	0.00
4,300.00	16.17	129.80	4,178.54	-566.70	680.25	885.37	0.00	0.00	0.00
4,400.00	16.17	129.80	4,274.58	-584.53	701.65	913.22	0.00	0.00	0.00
4,500.00	16.17	129.80	4,370.62	-602.36	723.05	941.08	0.00	0.00	0.00
4,600.00	16.17	129.80	4,466.67	-620.18	744.45	968.93	0.00	0.00	0.00
4,629.50	16.17	129.80	4,495.00	-625.44	750.76	977.15	0.00	0.00	0.00
Price Coal									

BBC

Planning Report

Database: Compass
Company: BILL BARRETT CORP
Project: GARFIELD COUNTY, COLORADO NAD 1983
Site: Werner Pad(s) SWSE-23-692
Well: Werner 41D-26-692
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Werner 41D-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)
4,646.25	16.17	129.80	4,511.09	-628.43	754.34	981.81	0.00	0.00	0.00
4,700.00	15.37	129.80	4,562.81	-637.78	765.57	996.42	1.50	-1.50	0.00
4,800.00	13.87	129.80	4,659.57	-653.93	784.95	1,021.65	1.50	-1.50	0.00
4,900.00	12.37	129.80	4,756.96	-668.46	802.39	1,044.35	1.50	-1.50	0.00
5,000.00	10.87	129.80	4,854.91	-681.34	817.86	1,064.48	1.50	-1.50	0.00
5,100.00	9.37	129.80	4,953.35	-692.59	831.35	1,082.05	1.50	-1.50	0.00
5,200.00	7.87	129.80	5,052.22	-702.17	842.86	1,097.03	1.50	-1.50	0.00
5,300.00	6.37	129.80	5,151.45	-710.10	852.38	1,109.42	1.50	-1.50	0.00
5,399.03	4.88	129.80	5,250.00	-716.32	859.84	1,119.12	1.50	-1.50	0.00
Top Gas									
5,400.00	4.87	129.80	5,250.97	-716.37	859.90	1,119.20	1.50	-1.50	0.00
5,500.00	3.37	129.80	5,350.71	-720.96	865.42	1,126.38	1.50	-1.50	0.00
5,600.00	1.87	129.80	5,450.60	-723.88	868.92	1,130.94	1.50	-1.50	0.00
5,700.00	0.37	129.80	5,550.58	-725.13	870.42	1,132.89	1.50	-1.50	0.00
5,724.42	0.00	0.00	5,575.00	-725.18	870.48	1,132.97	1.50	-1.50	0.00
5,800.00	0.00	0.00	5,650.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
5,900.00	0.00	0.00	5,750.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
6,000.00	0.00	0.00	5,850.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
6,100.00	0.00	0.00	5,950.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
6,200.00	0.00	0.00	6,050.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
6,300.00	0.00	0.00	6,150.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
6,400.00	0.00	0.00	6,250.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
6,500.00	0.00	0.00	6,350.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
6,600.00	0.00	0.00	6,450.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
6,700.00	0.00	0.00	6,550.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
6,800.00	0.00	0.00	6,650.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
6,900.00	0.00	0.00	6,750.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
7,000.00	0.00	0.00	6,850.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
7,100.00	0.00	0.00	6,950.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
7,200.00	0.00	0.00	7,050.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
7,300.00	0.00	0.00	7,150.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
7,400.00	0.00	0.00	7,250.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
7,424.42	0.00	0.00	7,275.00	-725.18	870.48	1,132.97	0.00	0.00	0.00
Rollins									
7,500.00	0.00	0.00	7,350.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
7,600.00	0.00	0.00	7,450.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
7,700.00	0.00	0.00	7,550.58	-725.18	870.48	1,132.97	0.00	0.00	0.00
7,724.42	0.00	0.00	7,575.00	-725.18	870.48	1,132.97	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 41D-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 41D-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 (°)	
3,786.13	3,685.00	Mesaverde		0.00		
4,629.50	4,495.00	Price Coal		0.00		
5,399.03	5,250.00	Top Gas		0.00		
7,424.42	7,275.00	Rollins		0.00		

WELL DETAILS: Werner 41D-26-692

Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1616567.329	2398999.453	39° 30' 24.87607" N	107° 37' 48.7884 W	



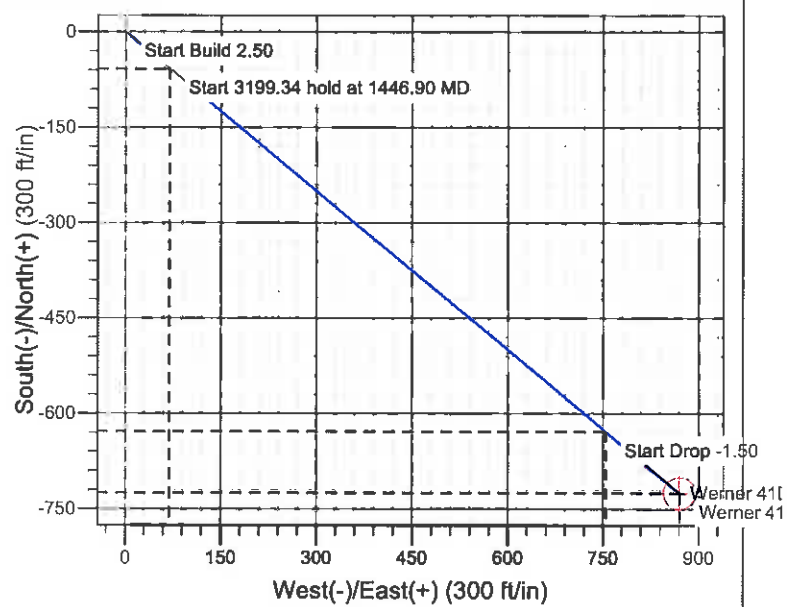
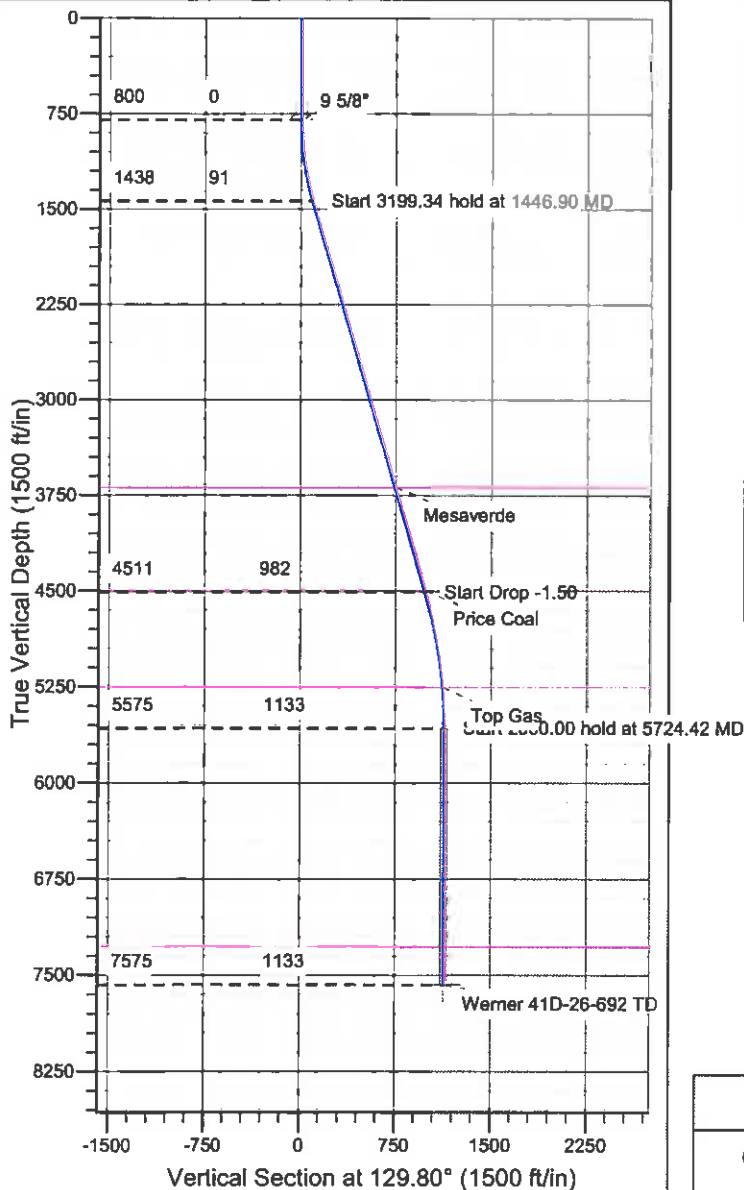
Azimuths to True North
Magnetic North: 10.46°
Magnetic Field
Strength: 52482.3nT
Dip Angle: 65.84°
Date: 12/14/2009
Model: BGGM2007

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	
2800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3446.90	16.17	129.80	1438.35	-58.05	69.68	2.50	129.80	90.69	
4646.25	16.17	129.80	4511.09	-628.43	754.34	0.00	0.00	981.81	
5724.42	0.00	0.00	5575.00	-725.18	870.48	1.50	180.00	1132.97	
7724.42	0.00	0.00	7575.00	-725.18	870.48	0.00	0.00	1132.97	Werner 41D-26-692 TD

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Werner 41D-26-692 TD	7575.00	-725.18	870.48	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
3685.00	3786.13	Mesaverde
4495.00	4629.50	Price Coal
5250.00	5399.03	Top Gas
7275.00	7424.42	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Werner 41D-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