

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Werner Pad(s) SWSE-23-692

Werner 31C-26-692

Wellbore #1

Plan: Design #1

Standard Planning Report

14 December, 2009

BBC
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 31C-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 31C-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 31C-26-692			
Well Position	+N/-S	-330.38 ft	Northing:	1,616,568.102 ft
	+E/-W	-63.48 ft	Easting:	2,398,935.406 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	200.52

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	
1,441.23	16.03	200.52	1,432.90	-83.47	-31.24	2.50	2.50	0.00	200.52	
4,653.41	16.03	200.52	4,520.17	-914.26	-342.13	0.00	0.00	0.00	0.00	
5,722.13	0.00	0.00	5,575.00	-1,053.37	-394.19	1.50	-1.50	0.00	180.00	
7,722.13	0.00	0.00	7,575.00	-1,053.37	-394.19	0.00	0.00	0.00	0.00	Werner 31C-26-692

BBC

Planning Report

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

Local Co-ordinate Reference: Well Werner 31C-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)
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	200.52	899.97	-2.04	-0.76	2.18	2.50	2.50	0.00
1,000.00	5.00	200.52	999.75	-8.17	-3.06	8.72	2.50	2.50	0.00
1,100.00	7.50	200.52	1,099.14	-18.36	-6.87	19.61	2.50	2.50	0.00
1,200.00	10.00	200.52	1,197.97	-32.61	-12.20	34.82	2.50	2.50	0.00
1,300.00	12.50	200.52	1,296.04	-50.88	-19.04	54.33	2.50	2.50	0.00
1,400.00	15.00	200.52	1,393.17	-73.14	-27.37	78.09	2.50	2.50	0.00
1,441.23	16.03	200.52	1,432.90	-83.47	-31.24	89.12	2.50	2.50	0.00
1,500.00	16.03	200.52	1,489.38	-98.67	-36.92	105.35	0.00	0.00	0.00
1,600.00	16.03	200.52	1,585.49	-124.53	-46.60	132.97	0.00	0.00	0.00
1,700.00	16.03	200.52	1,681.60	-150.40	-56.28	160.58	0.00	0.00	0.00
1,800.00	16.03	200.52	1,777.72	-176.26	-65.96	188.20	0.00	0.00	0.00
1,900.00	16.03	200.52	1,873.83	-202.12	-75.64	215.81	0.00	0.00	0.00
2,000.00	16.03	200.52	1,969.94	-227.99	-85.32	243.43	0.00	0.00	0.00
2,100.00	16.03	200.52	2,066.05	-253.85	-95.00	271.04	0.00	0.00	0.00
2,200.00	16.03	200.52	2,162.16	-279.71	-104.67	298.66	0.00	0.00	0.00
2,300.00	16.03	200.52	2,258.27	-305.58	-114.35	326.27	0.00	0.00	0.00
2,400.00	16.03	200.52	2,354.38	-331.44	-124.03	353.89	0.00	0.00	0.00
2,500.00	16.03	200.52	2,450.49	-357.31	-133.71	381.50	0.00	0.00	0.00
2,600.00	16.03	200.52	2,546.61	-383.17	-143.39	409.12	0.00	0.00	0.00
2,700.00	16.03	200.52	2,642.72	-409.03	-153.07	436.74	0.00	0.00	0.00
2,800.00	16.03	200.52	2,738.83	-434.90	-162.75	464.35	0.00	0.00	0.00
2,900.00	16.03	200.52	2,834.94	-460.76	-172.42	491.97	0.00	0.00	0.00
3,000.00	16.03	200.52	2,931.05	-486.62	-182.10	519.58	0.00	0.00	0.00
3,100.00	16.03	200.52	3,027.16	-512.49	-191.78	547.20	0.00	0.00	0.00
3,200.00	16.03	200.52	3,123.27	-538.35	-201.46	574.81	0.00	0.00	0.00
3,300.00	16.03	200.52	3,219.39	-564.22	-211.14	602.43	0.00	0.00	0.00
3,400.00	16.03	200.52	3,315.50	-590.08	-220.82	630.04	0.00	0.00	0.00
3,500.00	16.03	200.52	3,411.61	-615.94	-230.50	657.66	0.00	0.00	0.00
3,600.00	16.03	200.52	3,507.72	-641.81	-240.17	685.27	0.00	0.00	0.00
3,700.00	16.03	200.52	3,603.83	-667.67	-249.85	712.89	0.00	0.00	0.00
3,753.24	16.03	200.52	3,655.00	-681.44	-255.01	727.59	0.00	0.00	0.00
Mesaverde									
3,800.00	16.03	200.52	3,699.94	-693.54	-259.53	740.51	0.00	0.00	0.00
3,900.00	16.03	200.52	3,796.05	-719.40	-269.21	768.12	0.00	0.00	0.00
4,000.00	16.03	200.52	3,892.16	-745.26	-278.89	795.74	0.00	0.00	0.00
4,100.00	16.03	200.52	3,988.28	-771.13	-288.57	823.35	0.00	0.00	0.00
4,200.00	16.03	200.52	4,084.39	-796.99	-298.25	850.97	0.00	0.00	0.00
4,300.00	16.03	200.52	4,180.50	-822.85	-307.93	878.58	0.00	0.00	0.00
4,400.00	16.03	200.52	4,276.61	-848.72	-317.60	906.20	0.00	0.00	0.00
4,500.00	16.03	200.52	4,372.72	-874.58	-327.28	933.81	0.00	0.00	0.00
4,600.00	16.03	200.52	4,468.83	-900.45	-336.96	961.43	0.00	0.00	0.00
4,648.04	16.03	200.52	4,515.00	-912.87	-341.61	974.69	0.00	0.00	0.00
Price Coal									

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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)
4,653.41	16.03	200.52	4,520.17	-914.26	-342.13	976.18	0.00	0.00	0.00
4,700.00	15.33	200.52	4,565.02	-926.05	-346.54	988.77	1.50	-1.50	0.00
4,800.00	13.83	200.52	4,661.80	-949.63	-355.37	1,013.95	1.50	-1.50	0.00
4,900.00	12.33	200.52	4,759.20	-970.83	-363.30	1,036.58	1.50	-1.50	0.00
5,000.00	10.83	200.52	4,857.16	-989.63	-370.34	1,056.66	1.50	-1.50	0.00
5,100.00	9.33	200.52	4,955.61	-1,006.03	-376.47	1,074.16	1.50	-1.50	0.00
5,200.00	7.83	200.52	5,054.49	-1,020.00	-381.70	1,089.08	1.50	-1.50	0.00
5,300.00	6.33	200.52	5,153.73	-1,031.55	-386.02	1,101.41	1.50	-1.50	0.00
5,400.00	4.83	200.52	5,253.25	-1,040.66	-389.43	1,111.14	1.50	-1.50	0.00
5,471.95	3.75	200.52	5,325.00	-1,045.70	-391.32	1,116.52	1.50	-1.50	0.00
Top Gas									
5,500.00	3.33	200.52	5,352.99	-1,047.33	-391.93	1,118.26	1.50	-1.50	0.00
5,600.00	1.83	200.52	5,452.89	-1,051.55	-393.51	1,122.76	1.50	-1.50	0.00
5,700.00	0.33	200.52	5,552.87	-1,053.31	-394.17	1,124.65	1.50	-1.50	0.00
5,722.13	0.00	0.00	5,575.00	-1,053.37	-394.19	1,124.71	1.50	-1.50	0.00
5,800.00	0.00	0.00	5,652.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
5,900.00	0.00	0.00	5,752.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
6,000.00	0.00	0.00	5,852.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
6,100.00	0.00	0.00	5,952.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
6,200.00	0.00	0.00	6,052.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
6,300.00	0.00	0.00	6,152.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
6,400.00	0.00	0.00	6,252.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
6,500.00	0.00	0.00	6,352.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
6,600.00	0.00	0.00	6,452.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
6,700.00	0.00	0.00	6,552.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
6,800.00	0.00	0.00	6,652.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
6,900.00	0.00	0.00	6,752.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
7,000.00	0.00	0.00	6,852.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
7,100.00	0.00	0.00	6,952.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
7,200.00	0.00	0.00	7,052.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
7,300.00	0.00	0.00	7,152.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
7,400.00	0.00	0.00	7,252.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
7,422.13	0.00	0.00	7,275.00	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
Rollins									
7,500.00	0.00	0.00	7,352.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
7,600.00	0.00	0.00	7,452.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
7,700.00	0.00	0.00	7,552.87	-1,053.37	-394.19	1,124.71	0.00	0.00	0.00
7,722.13	0.00	0.00	7,575.00	-1,053.37	-394.19	1,124.71	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
Company: BILL BARRETT CORP
Project: GARFIELD COUNTY, COLORADO NAD 1983
Site: Werner Pad(s) SWSE-23-692
Well: Werner 31C-26-692
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Werner 31C-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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,753.24	3,655.00	Mesaverde		0.00		
4,648.04	4,515.00	Price Coal		0.00		
5,471.95	5,325.00	Top Gas		0.00		
7,422.13	7,275.00	Rollins		0.00		

WELL DETAILS: Werner 31C-26-692

Ground Level: 0.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1616568.102 2398935.406 39° 30' 24.8690N 107° 37' 49.6056 W



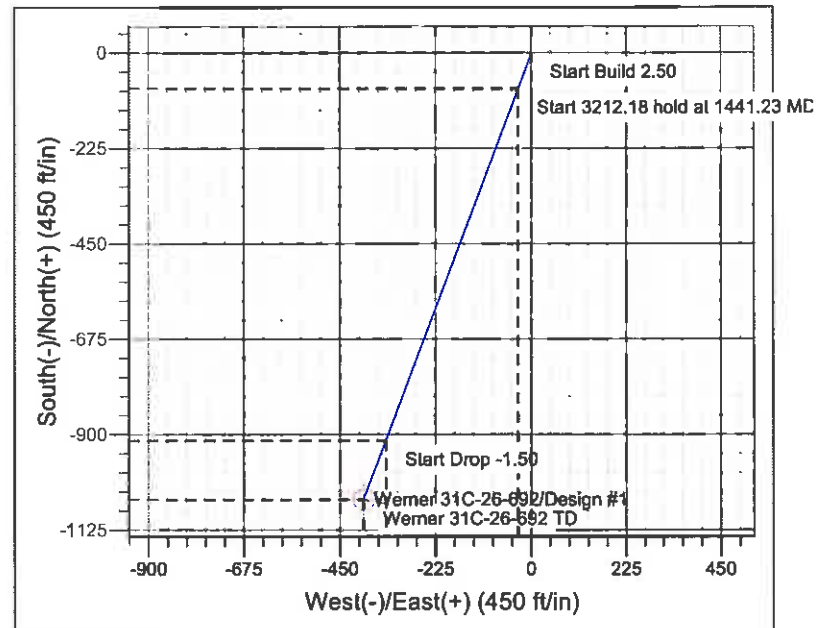
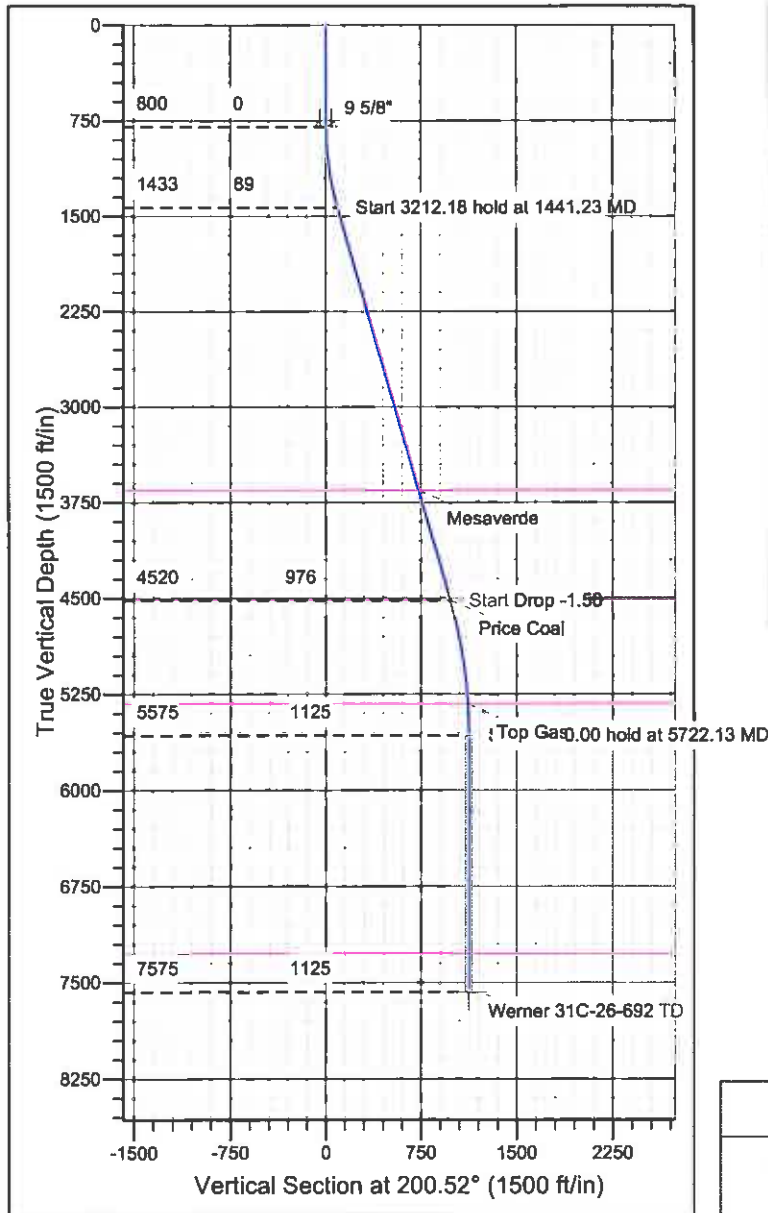
Azimuths to True North
 Magnetic North: 10.46°
 Magnetic Field
 Strength: 52482.2snT
 Dip Angle: 65.84°
 Date: 12/14/2009
 Model: BGGM2007

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	
	3 441.23	16.03	200.52	1432.90	-83.47	-31.24	2.50	200.52	89.12	
	4 653.41	16.03	200.52	4520.17	-914.26	-342.13	0.00	0.00	976.18	
	5 722.13	0.00	0.00	5575.00	-1053.37	-394.19	1.50	180.00	1124.71	
	6 722.13	0.00	0.00	7575.00	-1053.37	-394.19	0.00	0.00	1124.71	Werner 31C-26-692 TD

WELLBORE TARGET DETAILS

Name TVD +N/-S +E/-W Shape
 Werner 31C-26-692 TD -1053.37 -394.19 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
 3655.00 3753.24 Mesaverde
 4515.00 4648.04 Price Coal
 5325.00 5471.95 Top Gas
 7275.00 7422.13 Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Werner 31C-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