

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Werner Pad(s) SWSE-23-692

Werner 33C-23-692

Wellbore #1

Plan: Design #1

Standard Planning Report

14 December, 2009

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 33C-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 33C-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 33C-23-692					
Well Position	+N/-S	-0.37 ft	Northing:	1,616,896.757 ft	Latitude:	39° 30' 28.130 N
	+E/-W	-9.88 ft	Easting:	2,398,996.739 ft	Longitude:	107° 37' 48.9216 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	338.67

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	
1,536.12	18.40	338.67	1,523.53	109.18	-42.63	2.50	2.50	0.00	338.67	
4,652.06	18.40	338.67	4,480.11	1,025.51	-400.41	0.00	0.00	0.00	0.00	
5,878.93	0.00	0.00	5,686.00	1,207.47	-471.46	1.50	-1.50	0.00	180.00	
7,878.93	0.00	0.00	7,686.00	1,207.47	-471.46	0.00	0.00	0.00	0.00	Werner 33C-23-692

BBC Planning Report

Database: Compass
Company: BILL BARRETT CORP
Project: GARFIELD COUNTY, COLORADO NAD 1983
Site: Werner Pad(s) SWSE-23-692
Well: Werner 33C-23-692
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Werner 33C-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	338.67	899.97	2.03	-0.79	2.18	2.50	2.50	0.00
1,000.00	5.00	338.67	999.75	8.12	-3.17	8.72	2.50	2.50	0.00
1,100.00	7.50	338.67	1,099.14	18.26	-7.13	19.61	2.50	2.50	0.00
1,200.00	10.00	338.67	1,197.97	32.43	-12.66	34.82	2.50	2.50	0.00
1,300.00	12.50	338.67	1,296.04	50.60	-19.76	54.33	2.50	2.50	0.00
1,400.00	15.00	338.67	1,393.17	72.74	-28.40	78.09	2.50	2.50	0.00
1,500.00	17.50	338.67	1,489.17	98.81	-38.58	106.07	2.50	2.50	0.00
1,536.12	18.40	338.67	1,523.53	109.18	-42.63	117.21	2.50	2.50	0.00
1,600.00	18.40	338.67	1,584.14	127.96	-49.96	137.37	0.00	0.00	0.00
1,700.00	18.40	338.67	1,679.03	157.37	-61.45	168.94	0.00	0.00	0.00
1,800.00	18.40	338.67	1,773.91	186.78	-72.93	200.51	0.00	0.00	0.00
1,900.00	18.40	338.67	1,868.80	216.19	-84.41	232.08	0.00	0.00	0.00
2,000.00	18.40	338.67	1,963.68	245.60	-95.89	263.65	0.00	0.00	0.00
2,100.00	18.40	338.67	2,058.57	275.00	-107.37	295.22	0.00	0.00	0.00
2,200.00	18.40	338.67	2,153.46	304.41	-118.86	326.79	0.00	0.00	0.00
2,300.00	18.40	338.67	2,248.34	333.82	-130.34	358.36	0.00	0.00	0.00
2,400.00	18.40	338.67	2,343.23	363.23	-141.82	389.93	0.00	0.00	0.00
2,500.00	18.40	338.67	2,438.11	392.63	-153.30	421.50	0.00	0.00	0.00
2,600.00	18.40	338.67	2,533.00	422.04	-164.79	453.07	0.00	0.00	0.00
2,700.00	18.40	338.67	2,627.89	451.45	-176.27	484.64	0.00	0.00	0.00
2,800.00	18.40	338.67	2,722.77	480.86	-187.75	516.21	0.00	0.00	0.00
2,900.00	18.40	338.67	2,817.66	510.27	-199.23	547.78	0.00	0.00	0.00
3,000.00	18.40	338.67	2,912.54	539.67	-210.71	579.35	0.00	0.00	0.00
3,100.00	18.40	338.67	3,007.43	569.08	-222.20	610.92	0.00	0.00	0.00
3,200.00	18.40	338.67	3,102.32	598.49	-233.68	642.49	0.00	0.00	0.00
3,300.00	18.40	338.67	3,197.20	627.90	-245.16	674.06	0.00	0.00	0.00
3,400.00	18.40	338.67	3,292.09	657.31	-256.64	705.63	0.00	0.00	0.00
3,500.00	18.40	338.67	3,386.97	686.71	-268.13	737.20	0.00	0.00	0.00
3,600.00	18.40	338.67	3,481.86	716.12	-279.61	768.77	0.00	0.00	0.00
3,700.00	18.40	338.67	3,576.75	745.53	-291.09	800.34	0.00	0.00	0.00
3,800.00	18.40	338.67	3,671.63	774.94	-302.57	831.91	0.00	0.00	0.00
3,846.76	18.40	338.67	3,716.00	788.69	-307.94	846.67	0.00	0.00	0.00
Mesaverde									
3,900.00	18.40	338.67	3,766.52	804.35	-314.06	863.48	0.00	0.00	0.00
4,000.00	18.40	338.67	3,861.40	833.75	-325.54	895.05	0.00	0.00	0.00
4,100.00	18.40	338.67	3,956.29	863.16	-337.02	926.62	0.00	0.00	0.00
4,200.00	18.40	338.67	4,051.17	892.57	-348.50	958.19	0.00	0.00	0.00
4,300.00	18.40	338.67	4,146.06	921.98	-359.98	989.76	0.00	0.00	0.00
4,400.00	18.40	338.67	4,240.95	951.38	-371.47	1,021.33	0.00	0.00	0.00
4,500.00	18.40	338.67	4,335.83	980.79	-382.95	1,052.90	0.00	0.00	0.00
4,600.00	18.40	338.67	4,430.72	1,010.20	-394.43	1,084.47	0.00	0.00	0.00
4,652.06	18.40	338.67	4,480.11	1,025.51	-400.41	1,100.91	0.00	0.00	0.00
4,700.00	17.68	338.67	4,525.70	1,039.34	-405.81	1,115.76	1.50	-1.50	0.00

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 33C-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 33C-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)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,784.00	16.42	338.67	4,606.00	1,062.29	-414.77	1,140.39	1.50	-1.50	0.00
Price Coal									
4,800.00	16.18	338.67	4,621.36	1,066.47	-416.40	1,144.88	1.50	-1.50	0.00
4,900.00	14.68	338.67	4,717.75	1,091.26	-426.08	1,171.49	1.50	-1.50	0.00
5,000.00	13.18	338.67	4,814.81	1,113.69	-434.84	1,195.57	1.50	-1.50	0.00
5,100.00	11.68	338.67	4,912.46	1,133.75	-442.67	1,217.10	1.50	-1.50	0.00
5,200.00	10.18	338.67	5,010.64	1,151.42	-449.57	1,236.07	1.50	-1.50	0.00
5,300.00	8.68	338.67	5,109.28	1,166.69	-455.53	1,252.46	1.50	-1.50	0.00
5,400.00	7.18	338.67	5,208.32	1,179.54	-460.55	1,266.27	1.50	-1.50	0.00
5,500.00	5.68	338.67	5,307.69	1,189.98	-464.63	1,277.47	1.50	-1.50	0.00
5,600.00	4.18	338.67	5,407.32	1,197.99	-467.75	1,286.07	1.50	-1.50	0.00
5,700.00	2.68	338.67	5,507.13	1,203.57	-469.93	1,292.06	1.50	-1.50	0.00
5,708.87	2.55	338.67	5,516.00	1,203.95	-470.08	1,292.47	1.50	-1.50	0.00
Top Gas									
5,800.00	1.18	338.67	5,607.08	1,206.72	-471.16	1,295.44	1.50	-1.50	0.00
5,878.93	0.00	0.00	5,686.00	1,207.47	-471.46	1,296.25	1.50	-1.50	0.00
5,900.00	0.00	0.00	5,707.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
6,000.00	0.00	0.00	5,807.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
6,100.00	0.00	0.00	5,907.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
6,200.00	0.00	0.00	6,007.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
6,300.00	0.00	0.00	6,107.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
6,400.00	0.00	0.00	6,207.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
6,500.00	0.00	0.00	6,307.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
6,600.00	0.00	0.00	6,407.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
6,700.00	0.00	0.00	6,507.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
6,800.00	0.00	0.00	6,607.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
6,900.00	0.00	0.00	6,707.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
7,000.00	0.00	0.00	6,807.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
7,100.00	0.00	0.00	6,907.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
7,200.00	0.00	0.00	7,007.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
7,300.00	0.00	0.00	7,107.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
7,400.00	0.00	0.00	7,207.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
7,500.00	0.00	0.00	7,307.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
7,578.93	0.00	0.00	7,386.00	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
Rollins									
7,600.00	0.00	0.00	7,407.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
7,700.00	0.00	0.00	7,507.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
7,800.00	0.00	0.00	7,607.07	1,207.47	-471.46	1,296.25	0.00	0.00	0.00
7,878.93	0.00	0.00	7,686.00	1,207.47	-471.46	1,296.25	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: Wemer Pad(s) SWSE-23-692
Well: Wemer 33C-23-692
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Wemer 33C-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

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,846.76	3,716.00	Mesaverde		0.00	
4,784.00	4,606.00	Price Coal		0.00	
5,708.87	5,516.00	Top Gas		0.00	
7,578.93	7,386.00	Rollins		0.00	

WELL DETAILS: Werner 33C-23-692

Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1616896.757	2398996.733	39° 30' 28.13007" N	107° 37' 48.9216 W	



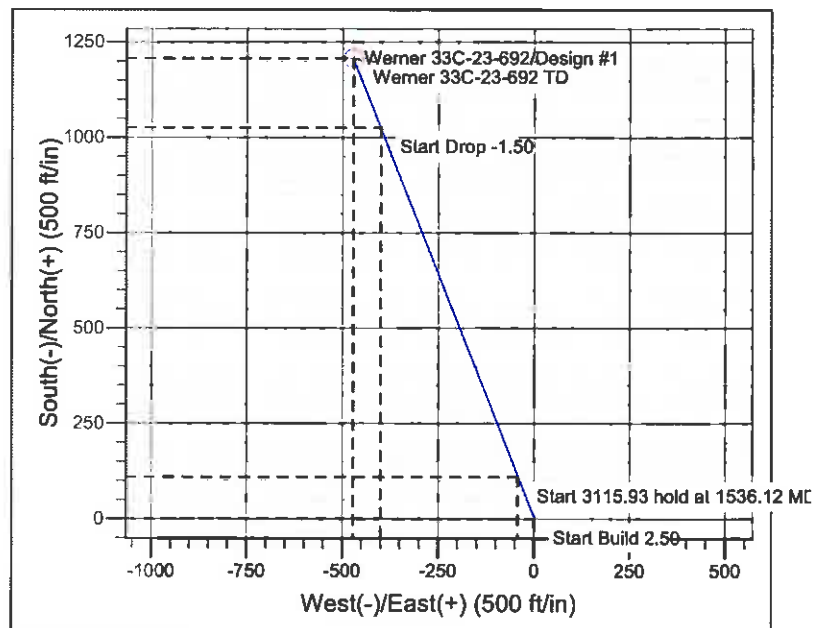
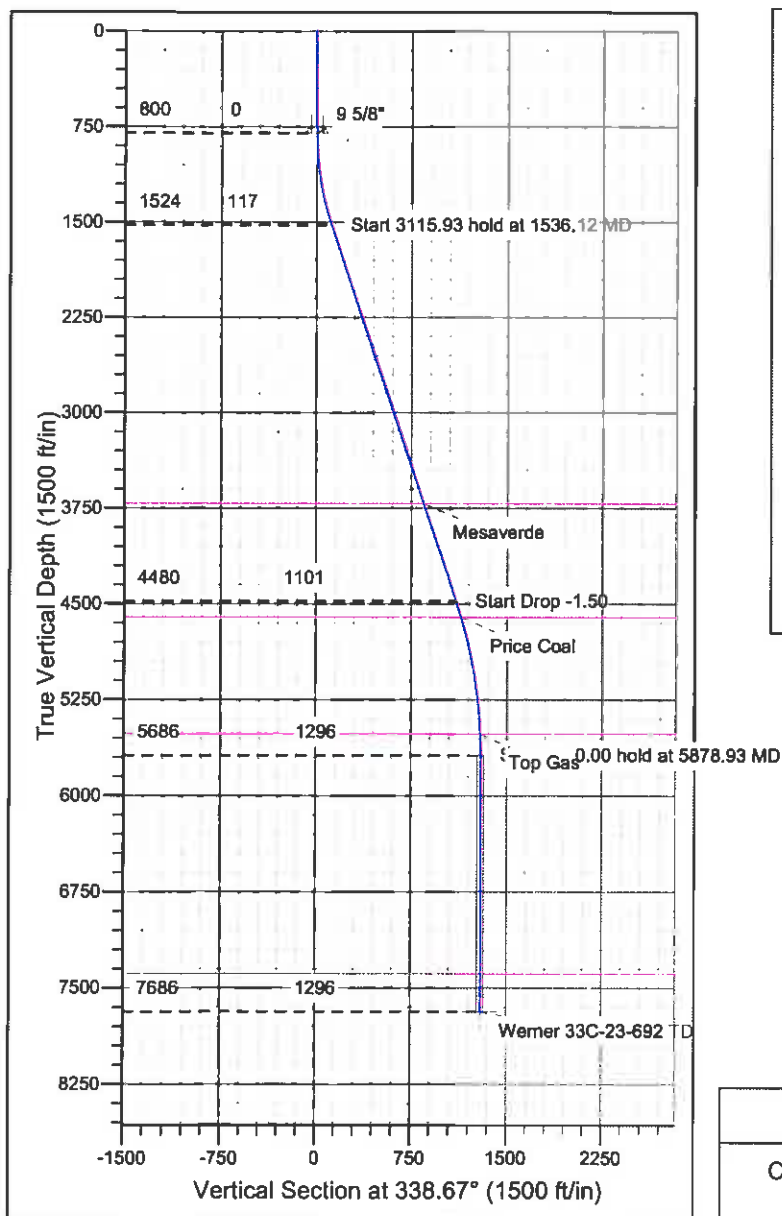
Azimuths to True North
Magnetic North: 10.46°
Magnetic Field
Strength: 52482.7 nT
Dip Angle: 65.84°
Date: 12/14/2009
Model: BGGM2007

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	
31536.12	18.40	338.67	1523.53	109.18	-42.63	2.50	338.67	117.21	
4652.06	18.40	338.67	4480.11	1025.51	-400.41	0.00	0.00	1100.91	
55878.93	0.00	0.00	5686.00	1207.47	-471.46	1.50	180.00	1296.25	
75878.93	0.00	0.00	7686.00	1207.47	-471.46	0.00	0.00	1296.25	Werner 33C-23-692 TD

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Werner 33C-23-692 TD	1207.47	-471.46	-471.46	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
3716.00	3846.76	Mesaverde
4606.00	4784.00	Price Coal
5516.00	5708.87	Top Gas
7386.00	7578.93	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Werner 33C-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