

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

Werner Pad(s) SWSE-23-692

Werner 33A-23-692

Wellbore #1

Plan: Design #1

Standard Planning Report

14 December, 2009

BBC
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 33A-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 33A-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 33A-23-692					
Well Position	+N/-S	-16.40 ft	Northing:	1,616,880.734 ft	Latitude:	39° 30' 27.972 N
	+E/-W	-9.88 ft	Easting:	2,398,996.363 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	321.68

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	
1,192.17	9.80	321.68	1,190.26	26.26	-20.76	2.50	2.50	0.00	321.68	
5,074.17	9.80	321.68	5,015.56	544.86	-430.67	0.00	0.00	0.00	0.00	
5,727.79	0.00	0.00	5,666.00	588.63	-465.26	1.50	-1.50	0.00	180.00	
7,727.79	0.00	0.00	7,666.00	588.63	-465.26	0.00	0.00	0.00	0.00	Werner 33A-23-692

BBC Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Werner 33A-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 33A-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)
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	321.68	899.97	1.71	-1.35	2.18	2.50	2.50	0.00
1,000.00	5.00	321.68	999.75	6.84	-5.41	8.72	2.50	2.50	0.00
1,100.00	7.50	321.68	1,099.14	15.38	-12.16	19.61	2.50	2.50	0.00
1,192.17	9.80	321.68	1,190.26	26.26	-20.76	33.47	2.50	2.50	0.00
1,200.00	9.80	321.68	1,197.97	27.31	-21.58	34.80	0.00	0.00	0.00
1,300.00	9.80	321.68	1,296.51	40.66	-32.14	51.83	0.00	0.00	0.00
1,400.00	9.80	321.68	1,395.05	54.02	-42.70	68.86	0.00	0.00	0.00
1,500.00	9.80	321.68	1,493.59	67.38	-53.26	85.89	0.00	0.00	0.00
1,600.00	9.80	321.68	1,592.13	80.74	-63.82	102.92	0.00	0.00	0.00
1,700.00	9.80	321.68	1,690.67	94.10	-74.38	119.95	0.00	0.00	0.00
1,800.00	9.80	321.68	1,789.21	107.46	-84.94	136.98	0.00	0.00	0.00
1,900.00	9.80	321.68	1,887.75	120.82	-95.50	154.00	0.00	0.00	0.00
2,000.00	9.80	321.68	1,986.29	134.18	-106.06	171.03	0.00	0.00	0.00
2,100.00	9.80	321.68	2,084.83	147.54	-116.62	188.06	0.00	0.00	0.00
2,200.00	9.80	321.68	2,183.37	160.90	-127.18	205.09	0.00	0.00	0.00
2,300.00	9.80	321.68	2,281.91	174.26	-137.73	222.12	0.00	0.00	0.00
2,400.00	9.80	321.68	2,380.45	187.62	-148.29	239.15	0.00	0.00	0.00
2,500.00	9.80	321.68	2,478.99	200.97	-158.85	256.17	0.00	0.00	0.00
2,600.00	9.80	321.68	2,577.53	214.33	-169.41	273.20	0.00	0.00	0.00
2,700.00	9.80	321.68	2,676.07	227.69	-179.97	290.23	0.00	0.00	0.00
2,800.00	9.80	321.68	2,774.61	241.05	-190.53	307.26	0.00	0.00	0.00
2,900.00	9.80	321.68	2,873.15	254.41	-201.09	324.29	0.00	0.00	0.00
3,000.00	9.80	321.68	2,971.69	267.77	-211.65	341.32	0.00	0.00	0.00
3,100.00	9.80	321.68	3,070.23	281.13	-222.21	358.34	0.00	0.00	0.00
3,200.00	9.80	321.68	3,168.76	294.49	-232.77	375.37	0.00	0.00	0.00
3,300.00	9.80	321.68	3,267.30	307.85	-243.33	392.40	0.00	0.00	0.00
3,400.00	9.80	321.68	3,365.84	321.21	-253.89	409.43	0.00	0.00	0.00
3,500.00	9.80	321.68	3,464.38	334.57	-264.45	426.46	0.00	0.00	0.00
3,600.00	9.80	321.68	3,562.92	347.92	-275.01	443.49	0.00	0.00	0.00
3,700.00	9.80	321.68	3,661.46	361.28	-285.56	460.51	0.00	0.00	0.00
3,745.20	9.80	321.68	3,706.00	367.32	-290.34	468.21	0.00	0.00	0.00
Mesaverde									
3,800.00	9.80	321.68	3,760.00	374.64	-296.12	477.54	0.00	0.00	0.00
3,900.00	9.80	321.68	3,858.54	388.00	-306.68	494.57	0.00	0.00	0.00
4,000.00	9.80	321.68	3,957.08	401.36	-317.24	511.60	0.00	0.00	0.00
4,100.00	9.80	321.68	4,055.62	414.72	-327.80	528.63	0.00	0.00	0.00
4,200.00	9.80	321.68	4,154.16	428.08	-338.36	545.66	0.00	0.00	0.00
4,300.00	9.80	321.68	4,252.70	441.44	-348.92	562.68	0.00	0.00	0.00
4,400.00	9.80	321.68	4,351.24	454.80	-359.48	579.71	0.00	0.00	0.00
4,500.00	9.80	321.68	4,449.78	468.16	-370.04	596.74	0.00	0.00	0.00
4,600.00	9.80	321.68	4,548.32	481.52	-380.60	613.77	0.00	0.00	0.00
4,658.54	9.80	321.68	4,606.00	489.34	-386.78	623.74	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 33A-23-692
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Werner 33A-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)
4,700.00	9.80	321.68	4,646.86	494.88	-391.16	630.80	0.00	0.00	0.00
4,800.00	9.80	321.68	4,745.40	508.23	-401.72	647.83	0.00	0.00	0.00
4,900.00	9.80	321.68	4,843.94	521.59	-412.28	664.86	0.00	0.00	0.00
5,000.00	9.80	321.68	4,942.48	534.95	-422.84	681.88	0.00	0.00	0.00
5,074.17	9.80	321.68	5,015.56	544.86	-430.67	694.51	0.00	0.00	0.00
5,100.00	9.42	321.68	5,041.03	548.24	-433.34	698.83	1.50	-1.50	0.00
5,200.00	7.92	321.68	5,139.89	560.07	-442.69	713.89	1.50	-1.50	0.00
5,300.00	6.42	321.68	5,239.10	569.85	-450.42	726.37	1.50	-1.50	0.00
5,400.00	4.92	321.68	5,338.61	577.60	-456.54	736.24	1.50	-1.50	0.00
5,500.00	3.42	321.68	5,438.34	583.30	-461.05	743.51	1.50	-1.50	0.00
5,527.70	3.00	321.68	5,466.00	584.52	-462.01	745.06	1.50	-1.50	0.00
Top Gas									
5,600.00	1.92	321.68	5,538.23	586.95	-463.94	748.16	1.50	-1.50	0.00
5,700.00	0.42	321.68	5,638.21	588.55	-465.20	750.20	1.50	-1.50	0.00
5,727.79	0.00	0.00	5,666.00	588.63	-465.26	750.30	1.50	-1.50	0.00
5,800.00	0.00	0.00	5,738.21	588.63	-465.26	750.30	0.00	0.00	0.00
5,900.00	0.00	0.00	5,838.21	588.63	-465.26	750.30	0.00	0.00	0.00
6,000.00	0.00	0.00	5,938.21	588.63	-465.26	750.30	0.00	0.00	0.00
6,100.00	0.00	0.00	6,038.21	588.63	-465.26	750.30	0.00	0.00	0.00
6,200.00	0.00	0.00	6,138.21	588.63	-465.26	750.30	0.00	0.00	0.00
6,300.00	0.00	0.00	6,238.21	588.63	-465.26	750.30	0.00	0.00	0.00
6,400.00	0.00	0.00	6,338.21	588.63	-465.26	750.30	0.00	0.00	0.00
6,500.00	0.00	0.00	6,438.21	588.63	-465.26	750.30	0.00	0.00	0.00
6,600.00	0.00	0.00	6,538.21	588.63	-465.26	750.30	0.00	0.00	0.00
6,700.00	0.00	0.00	6,638.21	588.63	-465.26	750.30	0.00	0.00	0.00
6,800.00	0.00	0.00	6,738.21	588.63	-465.26	750.30	0.00	0.00	0.00
6,900.00	0.00	0.00	6,838.21	588.63	-465.26	750.30	0.00	0.00	0.00
7,000.00	0.00	0.00	6,938.21	588.63	-465.26	750.30	0.00	0.00	0.00
7,100.00	0.00	0.00	7,038.21	588.63	-465.26	750.30	0.00	0.00	0.00
7,200.00	0.00	0.00	7,138.21	588.63	-465.26	750.30	0.00	0.00	0.00
7,300.00	0.00	0.00	7,238.21	588.63	-465.26	750.30	0.00	0.00	0.00
7,400.00	0.00	0.00	7,338.21	588.63	-465.26	750.30	0.00	0.00	0.00
7,427.79	0.00	0.00	7,366.00	588.63	-465.26	750.30	0.00	0.00	0.00
Rollins									
7,500.00	0.00	0.00	7,438.21	588.63	-465.26	750.30	0.00	0.00	0.00
7,600.00	0.00	0.00	7,538.21	588.63	-465.26	750.30	0.00	0.00	0.00
7,700.00	0.00	0.00	7,638.21	588.63	-465.26	750.30	0.00	0.00	0.00
7,727.79	0.00	0.00	7,666.00	588.63	-465.26	750.30	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 33A-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 33A-23-692	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,745.20	3,706.00	Mesaverde		0.00		
4,658.54	4,606.00	Price Coal		0.00		
5,527.70	5,466.00	Top Gas		0.00		
7,427.79	7,366.00	Rollins		0.00		

WELL DETAILS: Werner 33A-23-692

Ground Level: 0.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1616880.734 2398996.363 39° 30' 27.97207" 107° 37' 48.9216 W



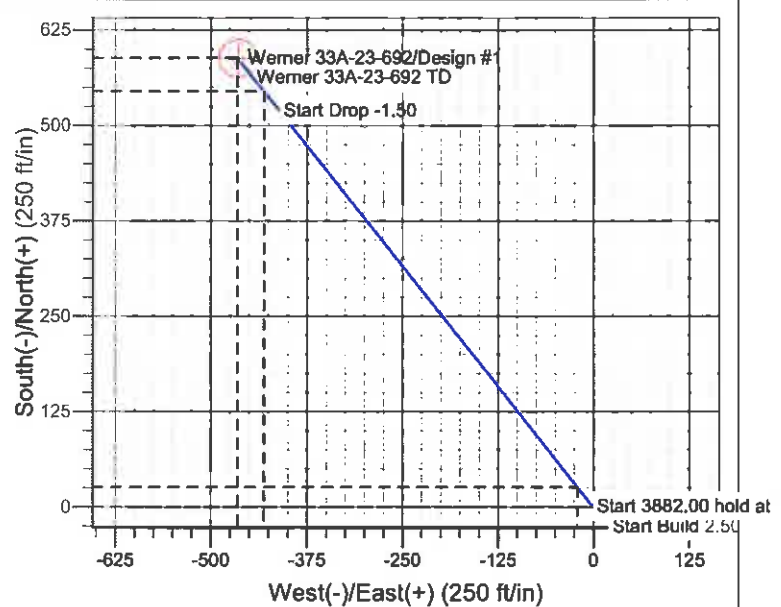
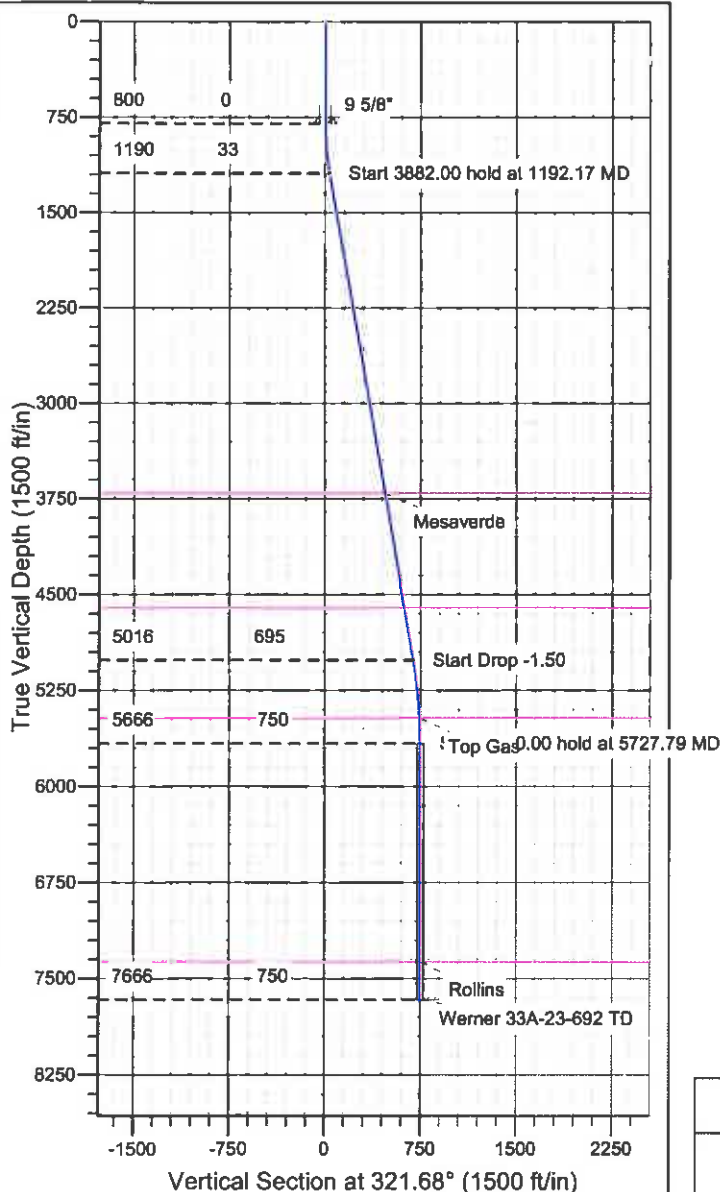
Azimuths to True North
 Magnetic North: 10.46°
 Magnetic Field
 Strength: 52482.7nT
 Dip Angle: 65.84°
 Date: 12/14/2009
 Model: BGGM2007

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	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	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3192.17	9.80	321.68	1190.26	26.26	-20.76	2.50	321.68	33.47		
4074.17	9.80	321.68	5015.56	544.86	-430.67	0.00	0.00	694.51		
5727.79	0.00	0.00	5666.00	588.63	-465.26	1.50	180.00	750.30		
6727.79	0.00	0.00	7666.00	588.63	-465.26	0.00	0.00	750.30		Werner 33A-23-692 TD

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Werner 33A-23-692 TD	588.63	588.63	-465.26	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
3706.00	3745.20	Mesaverde
4606.00	4658.54	Price Coal
5466.00	5527.70	Top Gas
7366.00	7427.79	Rollins

REFERENCE INFORMATION

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