



Bill Barrett Corp.

Garfield County, Colorado

MDP 23 Pad

Federal 42B-19-691

Wellbore #1

Plan: plan1 02jun10 rbw

Standard Planning Report

11 June, 2010

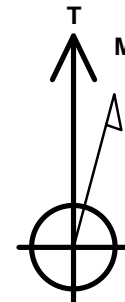
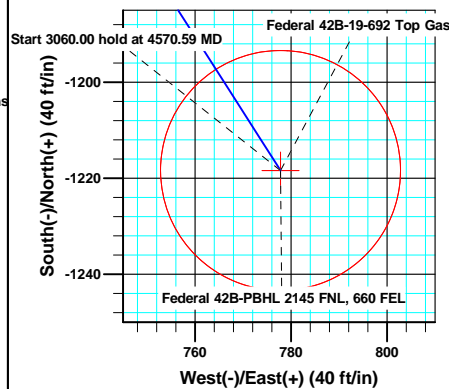
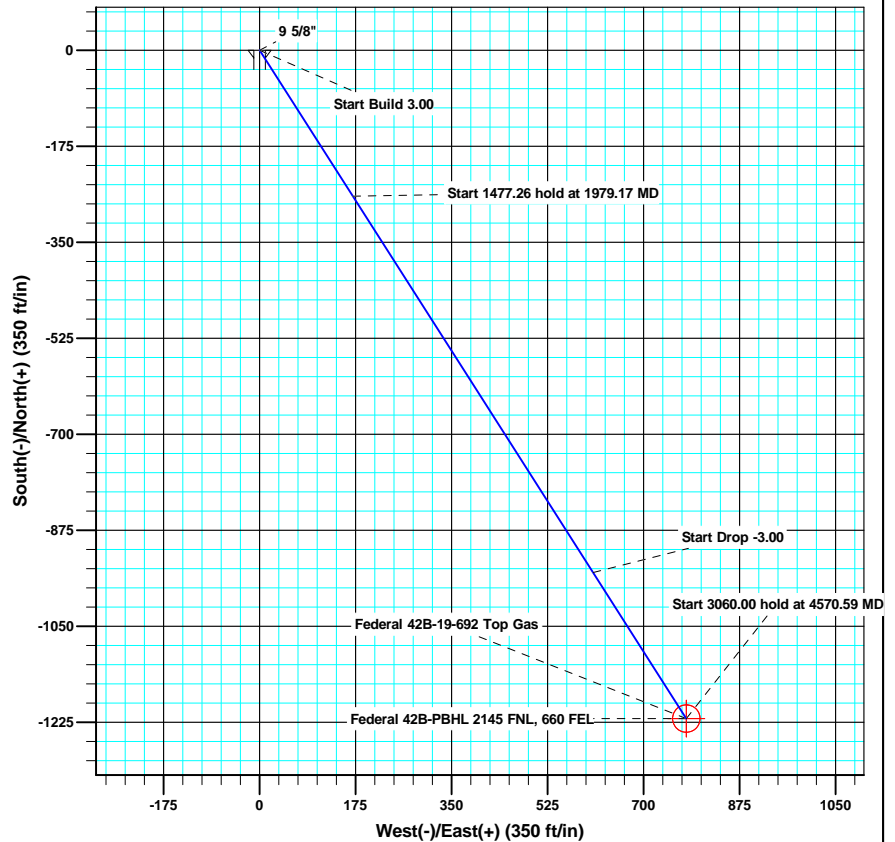
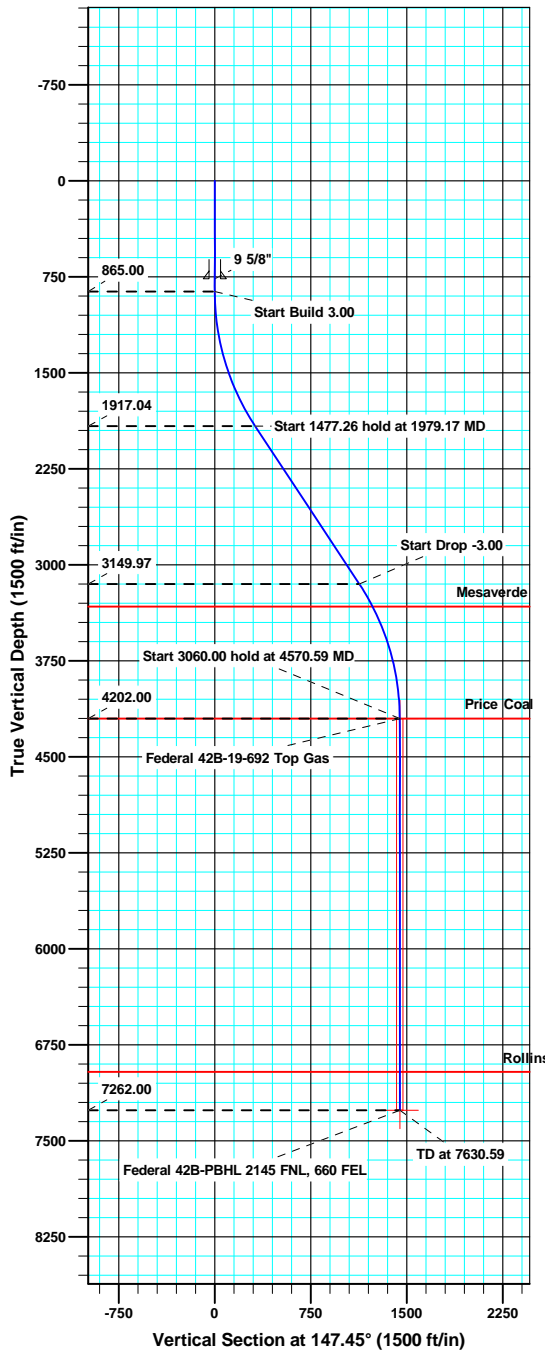


WELL DETAILS: Federal 42B-19-691

North American Datum 1983 US State Plane 1983 Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1620281.91 2409666.75 39.517786 -107.592726

Ground Level: 5904.00

MDP 23 Pad



Azimuths to True North
 Magnetic North: 10.28°

Magnetic Field
 Strength: 52448.7snT
 Dip Angle: 65.87°
 Date: 6/2/2010
 Model: IGRF200510

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
865.00	865.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
1917.04	1979.17	33.42	147.45	-266.24	169.97	315.88	315.88	Start 1477.26 hold at 1979.17 MD
3149.97	3456.42	33.42	147.45	-952.12	607.85	1129.61	1129.61	Start Drop -3.00
4202.00	4570.59	0.00	0.00	-1218.37	777.82	1445.49	1445.49	Start 3060.00 hold at 4570.59 MD
7262.00	7630.59	0.00	0.00	-1218.37	777.82	1445.49	1445.49	TD at 7630.59



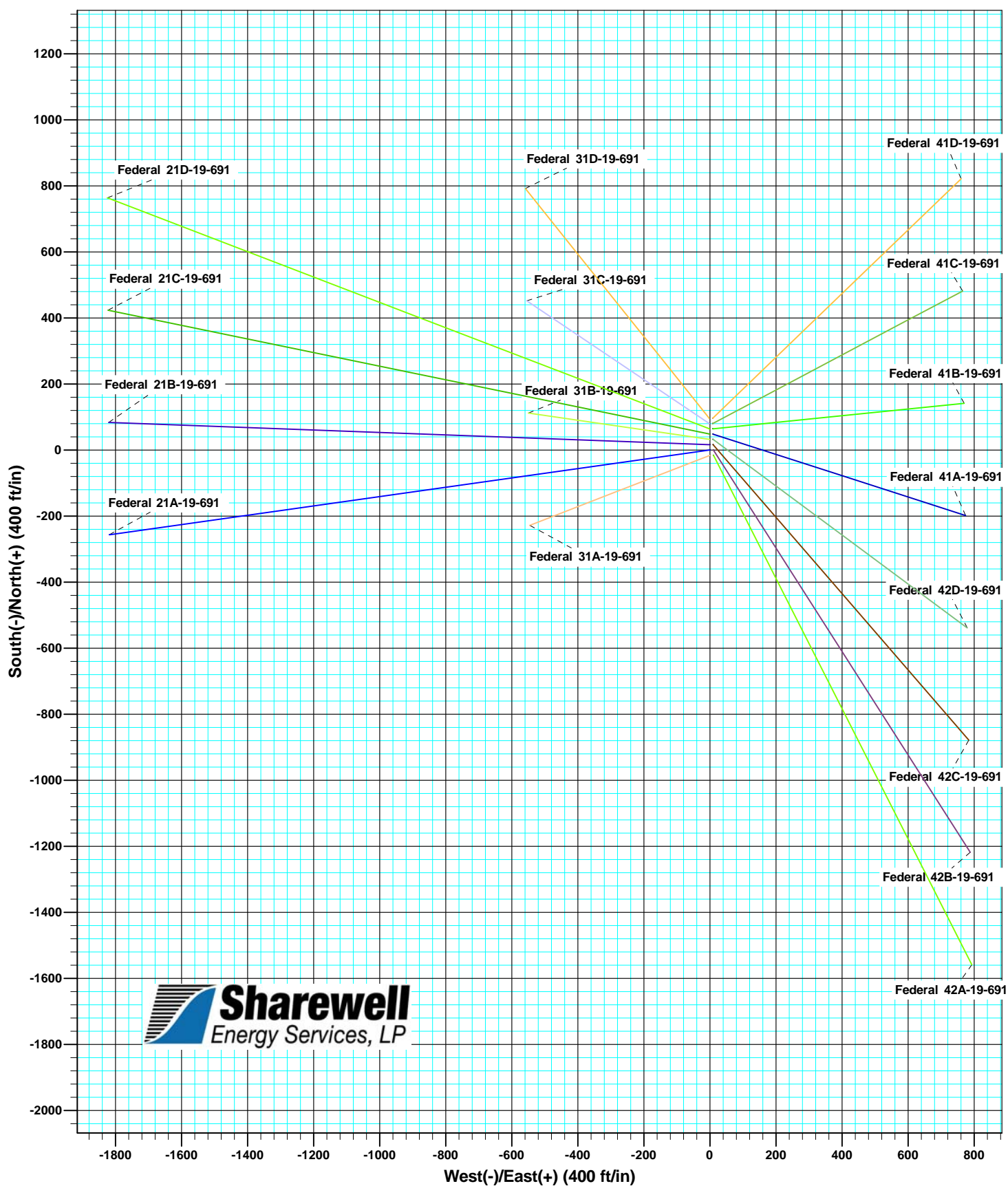


MDP 23 Pad

North American Datum 1983 US State Plane 1983 Colorado Central Zone

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1620282.13	2409656.60	39.517786	-107.592762

Ground Level: 5904.00



Database:	SWFS01 Compass DB	Local Co-ordinate Reference:	Well Federal 42B-19-691
Company:	Bill Barrett Corp.	TVD Reference:	KB @ 5927.00ft
Project:	Garfield County, Colorado	MD Reference:	KB @ 5927.00ft
Site:	MDP 23 Pad	North Reference:	True
Well:	Federal 42B-19-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 02jun10 rbw		

Project	Garfield County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		MDP 23 Pad			
Site Position:		Northing:	1,620,378.10 usft	Latitude:	39.518050
From:	Lat/Long	Easting:	2,409,666.99 usft	Longitude:	-107.592733
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.32 °

Well		Federal 42B-19-691				
Well Position	+N/-S	-96.17 ft	Northing:	1,620,281.90 usft	Latitude:	39.517786
	+E/-W	1.97 ft	Easting:	2,409,666.75 usft	Longitude:	-107.592726
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,904.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/2/2010	10.28	65.87	52,449

Design	plan1 02jun10 rbw			
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	147.45

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	
865.00	0.00	0.00	865.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,979.16	33.42	147.45	1,917.03	-266.24	169.97	3.00	3.00	0.00	147.45	
3,456.42	33.42	147.45	3,149.97	-952.12	607.85	0.00	0.00	0.00	0.00	
4,570.58	0.00	0.00	4,202.00	-1,218.37	777.82	3.00	-3.00	0.00	180.00	Federal 42B-19-692 T
7,630.58	0.00	0.00	7,262.00	-1,218.37	777.82	0.00	0.00	0.00	0.00	Federal 42B-PBHL 21



Database:	SWFS01 Compass DB	Local Co-ordinate Reference:	Well Federal 42B-19-691
Company:	Bill Barrett Corp.	TVD Reference:	KB @ 5927.00ft
Project:	Garfield County, Colorado	MD Reference:	KB @ 5927.00ft
Site:	MDP 23 Pad	North Reference:	True
Well:	Federal 42B-19-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 02jun10 rbw		

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
765.00	0.00	0.00	765.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
865.00	0.00	0.00	865.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
900.00	1.05	147.45	900.00	-0.27	0.17	0.32	3.00	3.00	0.00
1,000.00	4.05	147.45	999.89	-4.02	2.57	4.77	3.00	3.00	0.00
1,100.00	7.05	147.45	1,099.41	-12.17	7.77	14.44	3.00	3.00	0.00
1,200.00	10.05	147.45	1,198.28	-24.70	15.77	29.31	3.00	3.00	0.00
1,300.00	13.05	147.45	1,296.25	-41.58	26.54	49.33	3.00	3.00	0.00
1,400.00	16.05	147.45	1,393.03	-62.75	40.06	74.44	3.00	3.00	0.00
1,500.00	19.05	147.45	1,488.37	-88.16	56.28	104.60	3.00	3.00	0.00
1,600.00	22.05	147.45	1,581.99	-117.74	75.17	139.69	3.00	3.00	0.00
1,700.00	25.05	147.45	1,673.65	-151.42	96.67	179.64	3.00	3.00	0.00
1,800.00	28.05	147.45	1,763.10	-189.09	120.72	224.34	3.00	3.00	0.00
1,900.00	31.05	147.45	1,850.08	-230.65	147.25	273.65	3.00	3.00	0.00
1,979.17	33.42	147.45	1,917.04	-266.24	169.97	315.88	3.00	3.00	0.00
Start 1477.26 hold at 1979.17 MD									
2,000.00	33.42	147.45	1,934.42	-275.92	176.15	327.35	0.00	0.00	0.00
2,100.00	33.42	147.45	2,017.89	-322.35	205.79	382.44	0.00	0.00	0.00
2,200.00	33.42	147.45	2,101.35	-368.78	235.43	437.52	0.00	0.00	0.00
2,300.00	33.42	147.45	2,184.81	-415.21	265.07	492.60	0.00	0.00	0.00
2,400.00	33.42	147.45	2,268.27	-461.63	294.71	547.69	0.00	0.00	0.00
2,500.00	33.42	147.45	2,351.73	-508.06	324.36	602.77	0.00	0.00	0.00
2,600.00	33.42	147.45	2,435.19	-554.49	354.00	657.86	0.00	0.00	0.00
2,700.00	33.42	147.45	2,518.65	-600.92	383.64	712.94	0.00	0.00	0.00
2,800.00	33.42	147.45	2,602.11	-647.35	413.28	768.03	0.00	0.00	0.00
2,900.00	33.42	147.45	2,685.57	-693.78	442.92	823.11	0.00	0.00	0.00
3,000.00	33.42	147.45	2,769.03	-740.21	472.56	878.19	0.00	0.00	0.00
3,100.00	33.42	147.45	2,852.49	-786.64	502.20	933.28	0.00	0.00	0.00
3,200.00	33.42	147.45	2,935.96	-833.07	531.84	988.36	0.00	0.00	0.00
3,300.00	33.42	147.45	3,019.42	-879.50	561.49	1,043.45	0.00	0.00	0.00
3,400.00	33.42	147.45	3,102.88	-925.93	591.13	1,098.53	0.00	0.00	0.00
3,456.42	33.42	147.45	3,149.97	-952.12	607.85	1,129.61	0.00	0.00	0.00
Start Drop -3.00									
3,500.00	32.12	147.45	3,186.61	-972.01	620.54	1,153.20	3.00	-3.00	0.00
3,600.00	29.12	147.45	3,272.66	-1,014.93	647.95	1,204.12	3.00	-3.00	0.00
3,661.66	27.27	147.45	3,327.00	-1,039.48	663.62	1,233.25	3.00	-3.00	0.00
Mesaverde									
3,700.00	26.12	147.45	3,361.25	-1,054.00	672.89	1,250.48	3.00	-3.00	0.00
3,800.00	23.12	147.45	3,452.15	-1,089.10	695.30	1,292.13	3.00	-3.00	0.00
3,900.00	20.12	147.45	3,545.11	-1,120.15	715.12	1,328.96	3.00	-3.00	0.00
4,000.00	17.12	147.45	3,639.87	-1,147.06	732.30	1,360.88	3.00	-3.00	0.00
4,100.00	14.12	147.45	3,736.16	-1,169.75	746.79	1,387.80	3.00	-3.00	0.00
4,200.00	11.12	147.45	3,833.74	-1,188.16	758.54	1,409.64	3.00	-3.00	0.00
4,300.00	8.12	147.45	3,932.32	-1,202.24	767.53	1,426.35	3.00	-3.00	0.00



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Site:	MDP 23 Pad	North Reference:	True
Well:	Federal 42B-19-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 02jun10 rbw		

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)
4,400.00	5.12	147.45	4,031.64	-1,211.95	773.73	1,437.87	3.00	-3.00	0.00
4,500.00	2.12	147.45	4,131.43	-1,217.27	777.12	1,444.18	3.00	-3.00	0.00
4,570.58	0.00	0.00	4,202.00	-1,218.37	777.82	1,445.49	3.00	-3.00	0.00
Start 3060.00 hold at 4570.59 MD - Price Coal - Federal 42B-19-692 Top Gas									
4,600.00	0.00	0.00	4,231.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
4,700.00	0.00	0.00	4,331.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
4,800.00	0.00	0.00	4,431.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
4,900.00	0.00	0.00	4,531.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
5,000.00	0.00	0.00	4,631.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
5,100.00	0.00	0.00	4,731.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
5,200.00	0.00	0.00	4,831.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
5,300.00	0.00	0.00	4,931.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
5,400.00	0.00	0.00	5,031.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
5,500.00	0.00	0.00	5,131.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
5,600.00	0.00	0.00	5,231.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
5,700.00	0.00	0.00	5,331.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
5,800.00	0.00	0.00	5,431.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
5,900.00	0.00	0.00	5,531.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
6,000.00	0.00	0.00	5,631.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
6,100.00	0.00	0.00	5,731.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
6,200.00	0.00	0.00	5,831.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
6,300.00	0.00	0.00	5,931.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
6,400.00	0.00	0.00	6,031.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
6,500.00	0.00	0.00	6,131.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
6,600.00	0.00	0.00	6,231.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
6,700.00	0.00	0.00	6,331.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
6,800.00	0.00	0.00	6,431.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
6,900.00	0.00	0.00	6,531.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
7,000.00	0.00	0.00	6,631.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
7,100.00	0.00	0.00	6,731.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
7,200.00	0.00	0.00	6,831.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
7,300.00	0.00	0.00	6,931.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
7,330.58	0.00	0.00	6,962.00	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
Rollins									
7,400.00	0.00	0.00	7,031.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
7,500.00	0.00	0.00	7,131.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
7,600.00	0.00	0.00	7,231.42	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
7,630.58	0.00	0.00	7,262.00	-1,218.37	777.82	1,445.49	0.00	0.00	0.00
Federal 42B-PBHL 2145 FNL, 660 FEL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Federal 42B-19-692 Top	0.00	0.00	4,202.00	-1,218.37	777.82	1,619,045.95	2,410,416.31	39.514441	-107.589969
- plan hits target center									
- Circle (radius 25.00)									
Federal 42B-PBHL 2145	0.00	0.00	7,262.00	-1,218.37	777.82	1,619,045.95	2,410,416.31	39.514441	-107.589969
- plan hits target center									
- Point									

Database:	SWFS01 Compass DB	Local Co-ordinate Reference:	Well Federal 42B-19-691
Company:	Bill Barrett Corp.	TVD Reference:	KB @ 5927.00ft
Project:	Garfield County, Colorado	MD Reference:	KB @ 5927.00ft
Site:	MDP 23 Pad	North Reference:	True
Well:	Federal 42B-19-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 02jun10 rbw		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)	
765.00	765.00	9 5/8"	0.80	1.02	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,661.66	3,327.00	Mesaverde		0.00	
4,570.58	4,202.00	Price Coal		0.00	
7,330.58	6,962.00	Rollins		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
865.00	865.00	0.00	0.00	Start Build 3.00	
1,979.17	1,917.04	-266.24	169.97	Start 1477.26 hold at 1979.17 MD	
3,456.42	3,149.97	-952.12	607.85	Start Drop -3.00	
4,570.59	4,202.00	-1,218.37	777.82	Start 3060.00 hold at 4570.59 MD	
7,630.59	7,262.00	-1,218.37	777.82	TD at 7630.59	