



Bill Barrett Corp.

Garfield County, Colorado

MDP 23 Pad

Federal 42C-19-691

Wellbore #1

Plan: plan1 02jun10 rbw

Standard Planning Report

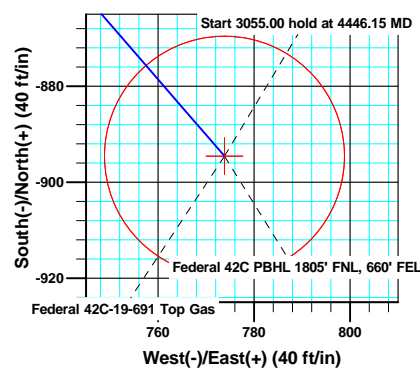
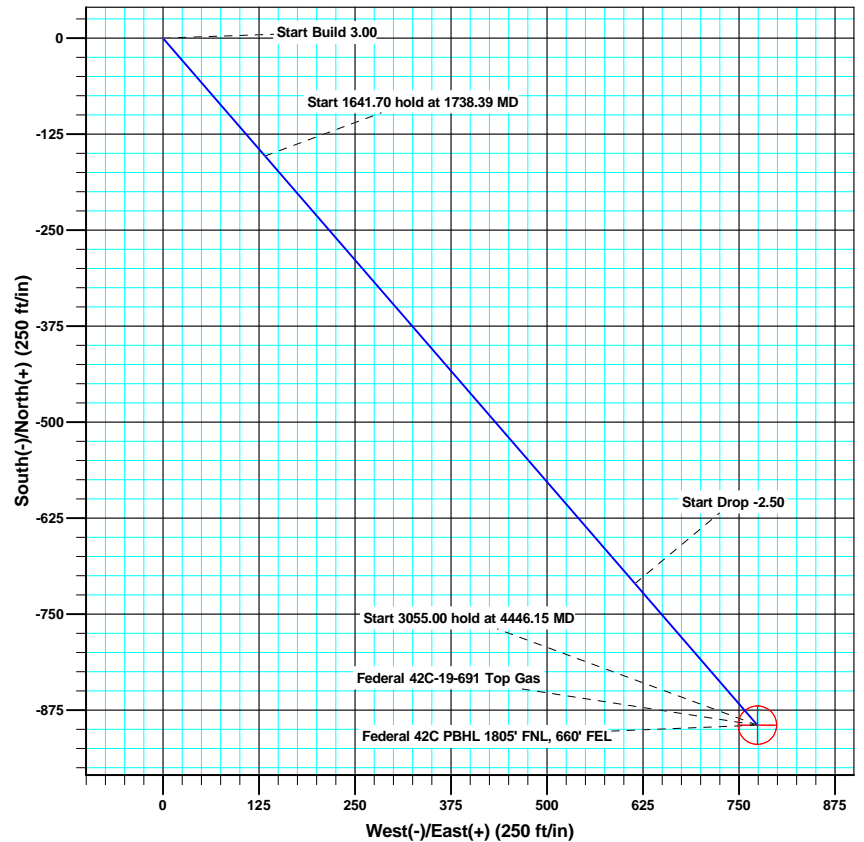
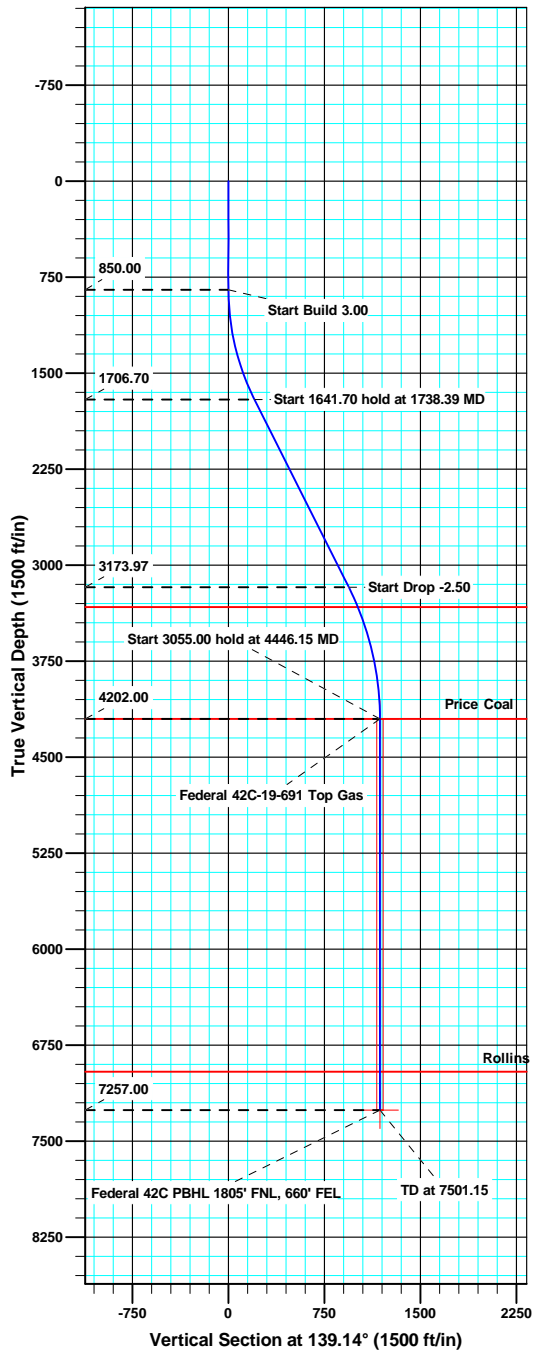
11 June, 2010



WELL DETAILS: Federal 42C-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 1620297.95 2409666.55 39.517830 -107.592728

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
850.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
1706.70	1738.39	26.65	139.14	-153.47	132.76	202.92	202.92	Start 1641.70 hold at 1738.39 MD
3173.97	3380.09	26.65	139.14	-710.40	614.55	939.33	939.33	Start Drop -2.50
4202.00	4446.15	0.00	0.00	-894.56	773.86	1182.84	1182.84	Start 3055.00 hold at 4446.15 MD
7257.00	7501.15	0.00	0.00	-894.56	773.86	1182.84	1182.84	TD at 7501.15



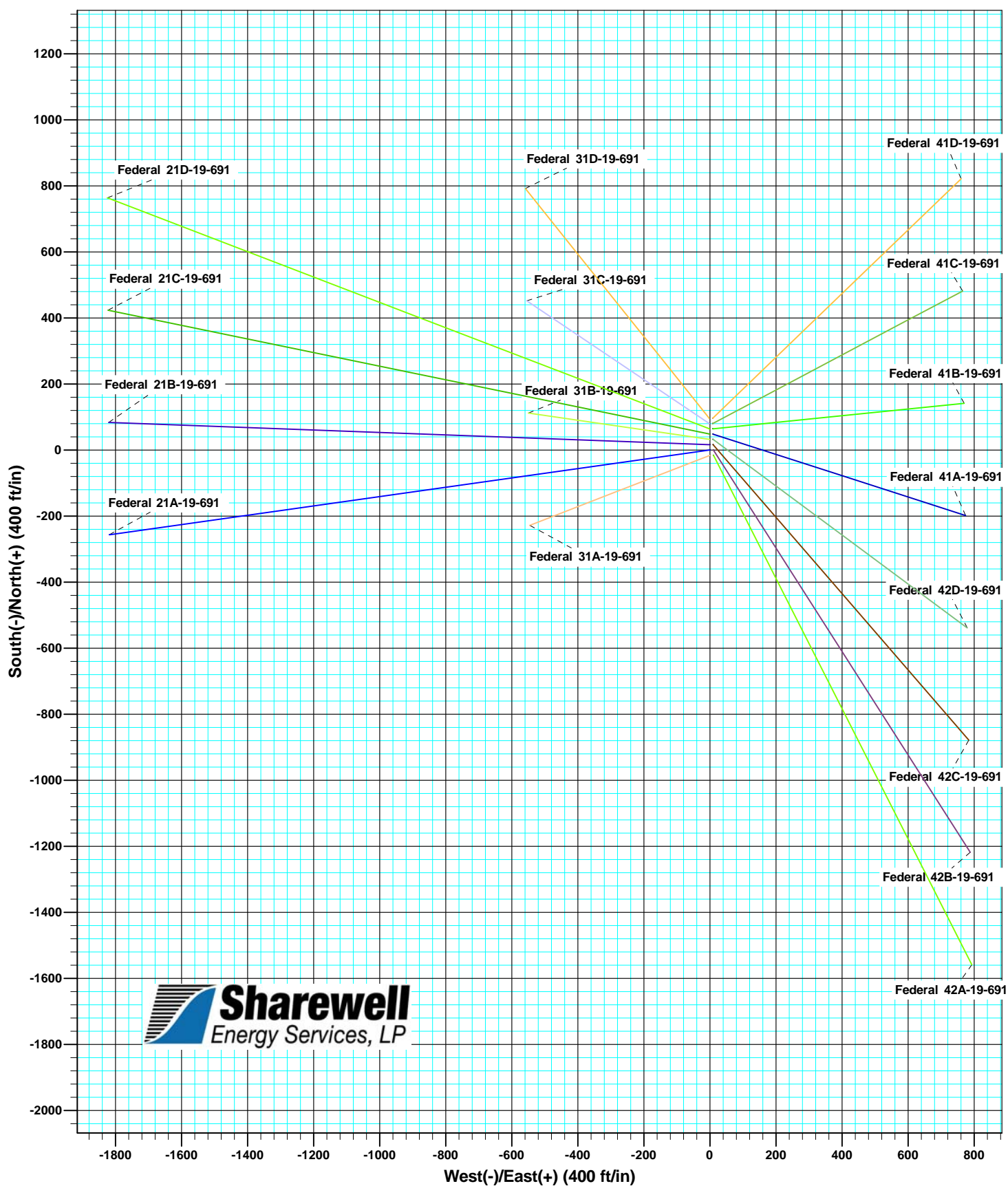


MDP 23 Pad

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 42C-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 42C-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 42C-19-691				
Well Position	+N/-S	-80.14 ft	Northing:	1,620,297.94 usft	Latitude:	39.517830
	+E/-W	1.41 ft	Easting:	2,409,666.56 usft	Longitude:	-107.592728
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)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	139.14

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	
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,738.39	26.65	139.14	1,706.70	-153.47	132.76	3.00	3.00	0.00	139.14	
3,380.09	26.65	139.14	3,173.97	-710.40	614.55	0.00	0.00	0.00	0.00	
4,446.15	0.00	0.00	4,202.00	-894.56	773.86	2.50	-2.50	0.00	180.00	Federal 42C-19-691 1
7,501.15	0.00	0.00	7,257.00	-894.56	773.86	0.00	0.00	0.00	0.00	Federal 42C PBHL 18



Database:	SWFS01 Compass DB	Local Co-ordinate Reference:	Well Federal 42C-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 42C-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
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
900.00	1.50	139.14	899.99	-0.49	0.43	0.65	3.00	3.00	0.00
1,000.00	4.50	139.14	999.85	-4.45	3.85	5.89	3.00	3.00	0.00
1,100.00	7.50	139.14	1,099.29	-12.36	10.69	16.34	3.00	3.00	0.00
1,200.00	10.50	139.14	1,198.04	-24.19	20.92	31.98	3.00	3.00	0.00
1,300.00	13.50	139.14	1,295.85	-39.91	34.52	52.77	3.00	3.00	0.00
1,400.00	16.50	139.14	1,392.43	-59.48	51.46	78.65	3.00	3.00	0.00
1,500.00	19.50	139.14	1,487.52	-82.85	71.67	109.55	3.00	3.00	0.00
1,600.00	22.50	139.14	1,580.87	-109.95	95.11	145.38	3.00	3.00	0.00
1,700.00	25.50	139.14	1,672.22	-140.71	121.72	186.05	3.00	3.00	0.00
1,738.39	26.65	139.14	1,706.70	-153.47	132.76	202.92	3.00	3.00	0.00
Start 1641.70 hold at 1738.39 MD									
1,800.00	26.65	139.14	1,761.76	-174.37	150.84	230.56	0.00	0.00	0.00
1,900.00	26.65	139.14	1,851.14	-208.29	180.19	275.42	0.00	0.00	0.00
2,000.00	26.65	139.14	1,940.51	-242.22	209.54	320.27	0.00	0.00	0.00
2,100.00	26.65	139.14	2,029.89	-276.14	238.88	365.13	0.00	0.00	0.00
2,200.00	26.65	139.14	2,119.26	-310.06	268.23	409.98	0.00	0.00	0.00
2,300.00	26.65	139.14	2,208.64	-343.99	297.58	454.84	0.00	0.00	0.00
2,400.00	26.65	139.14	2,298.01	-377.91	326.92	499.70	0.00	0.00	0.00
2,500.00	26.65	139.14	2,387.39	-411.84	356.27	544.55	0.00	0.00	0.00
2,600.00	26.65	139.14	2,476.76	-445.76	385.62	589.41	0.00	0.00	0.00
2,700.00	26.65	139.14	2,566.14	-479.69	414.97	634.27	0.00	0.00	0.00
2,800.00	26.65	139.14	2,655.51	-513.61	444.31	679.12	0.00	0.00	0.00
2,900.00	26.65	139.14	2,744.89	-547.53	473.66	723.98	0.00	0.00	0.00
3,000.00	26.65	139.14	2,834.26	-581.46	503.01	768.84	0.00	0.00	0.00
3,100.00	26.65	139.14	2,923.64	-615.38	532.35	813.69	0.00	0.00	0.00
3,200.00	26.65	139.14	3,013.01	-649.31	561.70	858.55	0.00	0.00	0.00
3,300.00	26.65	139.14	3,102.39	-683.23	591.05	903.41	0.00	0.00	0.00
3,380.09	26.65	139.14	3,173.97	-710.40	614.55	939.33	0.00	0.00	0.00
Start Drop -2.50									
3,400.00	26.15	139.14	3,191.80	-717.10	620.34	948.18	2.50	-2.50	0.00
3,500.00	23.65	139.14	3,282.49	-748.94	647.89	990.29	2.50	-2.50	0.00
3,548.37	22.44	139.14	3,327.00	-763.26	660.28	1,009.23	2.50	-2.50	0.00
Mesaverde									
3,600.00	21.15	139.14	3,374.94	-777.76	672.83	1,028.40	2.50	-2.50	0.00
3,700.00	18.65	139.14	3,468.96	-803.51	695.10	1,062.44	2.50	-2.50	0.00
3,800.00	16.15	139.14	3,564.37	-826.13	714.66	1,092.35	2.50	-2.50	0.00
3,900.00	13.65	139.14	3,661.00	-845.58	731.49	1,118.07	2.50	-2.50	0.00
4,000.00	11.15	139.14	3,758.66	-861.82	745.54	1,139.55	2.50	-2.50	0.00
4,100.00	8.65	139.14	3,857.16	-874.83	756.79	1,156.75	2.50	-2.50	0.00
4,200.00	6.15	139.14	3,956.32	-884.57	765.22	1,169.63	2.50	-2.50	0.00
4,300.00	3.65	139.14	4,055.95	-891.04	770.82	1,178.18	2.50	-2.50	0.00
4,400.00	1.15	139.14	4,155.85	-894.21	773.56	1,182.37	2.50	-2.50	0.00
4,446.15	0.00	0.00	4,202.00	-894.56	773.86	1,182.84	2.50	-2.50	0.00



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Project:	Garfield County, Colorado	MD Reference:	KB @ 5927.00ft
Site:	MDP 23 Pad	North Reference:	True
Well:	Federal 42C-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)
Start 3055.00 hold at 4446.15 MD - Price Coal - Federal 42C-19-691 Top Gas									
4,500.00	0.00	0.00	4,255.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
4,600.00	0.00	0.00	4,355.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
4,700.00	0.00	0.00	4,455.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
4,800.00	0.00	0.00	4,555.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
4,900.00	0.00	0.00	4,655.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
5,000.00	0.00	0.00	4,755.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
5,100.00	0.00	0.00	4,855.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
5,200.00	0.00	0.00	4,955.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
5,300.00	0.00	0.00	5,055.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
5,400.00	0.00	0.00	5,155.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
5,500.00	0.00	0.00	5,255.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
5,600.00	0.00	0.00	5,355.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
5,700.00	0.00	0.00	5,455.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
5,800.00	0.00	0.00	5,555.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
5,900.00	0.00	0.00	5,655.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
6,000.00	0.00	0.00	5,755.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
6,100.00	0.00	0.00	5,855.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
6,200.00	0.00	0.00	5,955.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
6,300.00	0.00	0.00	6,055.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
6,400.00	0.00	0.00	6,155.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
6,500.00	0.00	0.00	6,255.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
6,600.00	0.00	0.00	6,355.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
6,700.00	0.00	0.00	6,455.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
6,800.00	0.00	0.00	6,555.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
6,900.00	0.00	0.00	6,655.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
7,000.00	0.00	0.00	6,755.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
7,100.00	0.00	0.00	6,855.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
7,200.00	0.00	0.00	6,955.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
7,201.15	0.00	0.00	6,957.00	-894.56	773.86	1,182.84	0.00	0.00	0.00
Rollins									
7,300.00	0.00	0.00	7,055.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
7,400.00	0.00	0.00	7,155.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
7,500.00	0.00	0.00	7,255.85	-894.56	773.86	1,182.84	0.00	0.00	0.00
7,501.15	0.00	0.00	7,257.00	-894.56	773.86	1,182.84	0.00	0.00	0.00
TD at 7501.15 - Federal 42C PBHL 1805' 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 42C-19-691 Top	0.00	0.00	4,202.00	-894.56	773.86	1,619,385.80	2,410,419.61	39.515374	-107.589985
- plan hits target center									
- Circle (radius 25.00)									
Federal 42C PBHL 1805	0.00	0.00	7,257.00	-894.56	773.86	1,619,385.80	2,410,419.61	39.515374	-107.589985
- plan hits target center									
- Circle (radius 0.00)									

Database:	SWFS01 Compass DB	Local Co-ordinate Reference:	Well Federal 42C-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 42C-19-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 02jun10 rbw		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,548.37	3,327.00	Mesaverde		0.00	
4,446.15	4,202.00	Price Coal		0.00	
7,201.15	6,957.00	Rollins		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
850.00	850.00	0.00	0.00	Start Build 3.00	
1,738.39	1,706.70	-153.47	132.76	Start 1641.70 hold at 1738.39 MD	
3,380.09	3,173.97	-710.40	614.55	Start Drop -2.50	
4,446.15	4,202.00	-894.56	773.86	Start 3055.00 hold at 4446.15 MD	
7,501.15	7,257.00	-894.56	773.86	TD at 7501.15	