



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

MDP 25 Pad

Federal 33C-33-691

Wellbore #1

Plan: plan1 06may11 rbw

Standard Planning Report

13 May, 2011





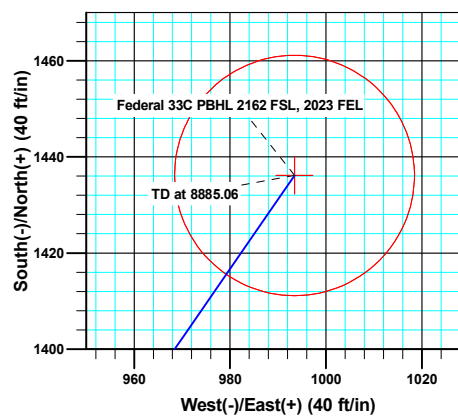
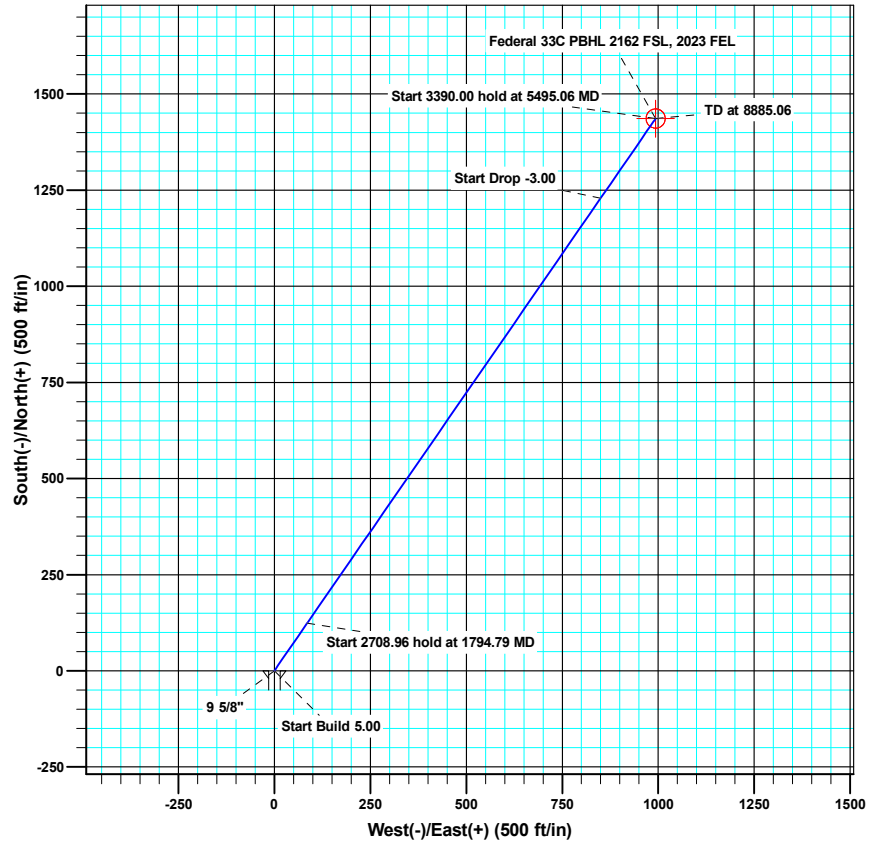
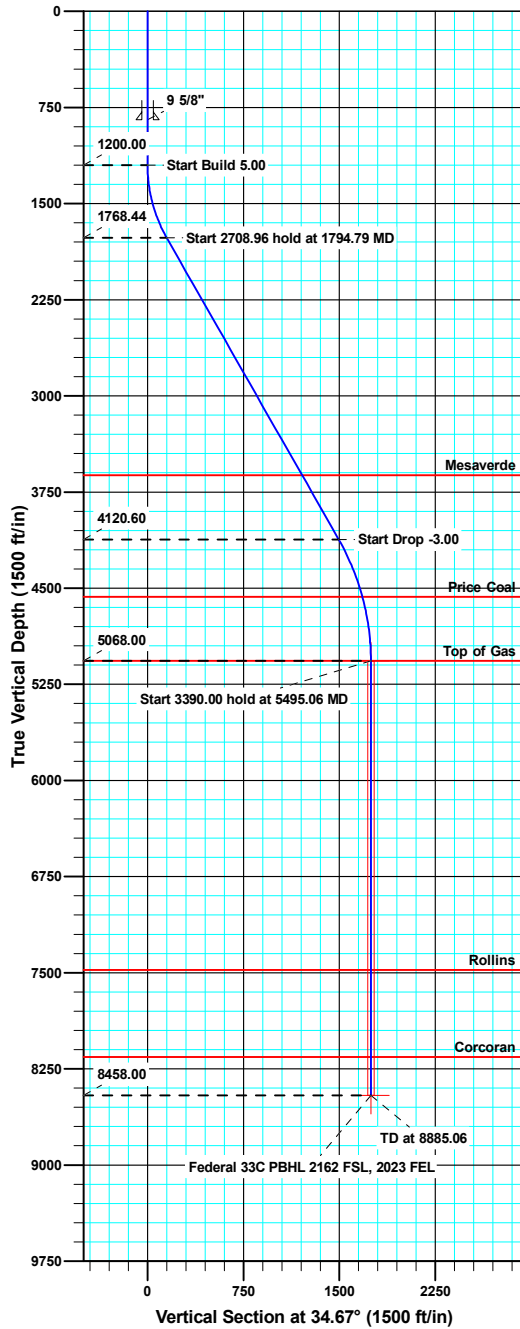
Bill Barrett Corporation

WELL DETAILS: Federal 33C-33-691

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone

Ground Level: 6595.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1606007.85	2418630.34	39° 28' 45.01 N	107° 33' 35.33 W



Azimuths to True North
Magnetic North: 10.17°

Magnetic Field
Strength: 52303.8snT
Dip Angle: 65.81°
Date: 05/06/2011
Model: IGRF2010

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.000	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	
1794.79	29.739	34.67	1768.44	124.12	85.86	5.00	34.67	150.93	
4503.75	29.739	34.67	4120.60	1229.28	850.35	0.00	0.00	1494.73	
5495.06	0.000	0.00	5068.00	1436.15	993.45	3.00	180.00	1746.27	Federal 33C Target
8885.06	0.000	0.00	8458.00	1436.15	993.45	0.00	0.00	1746.27	Federal 33C PBHL 2162 FSL, 2023 FEL

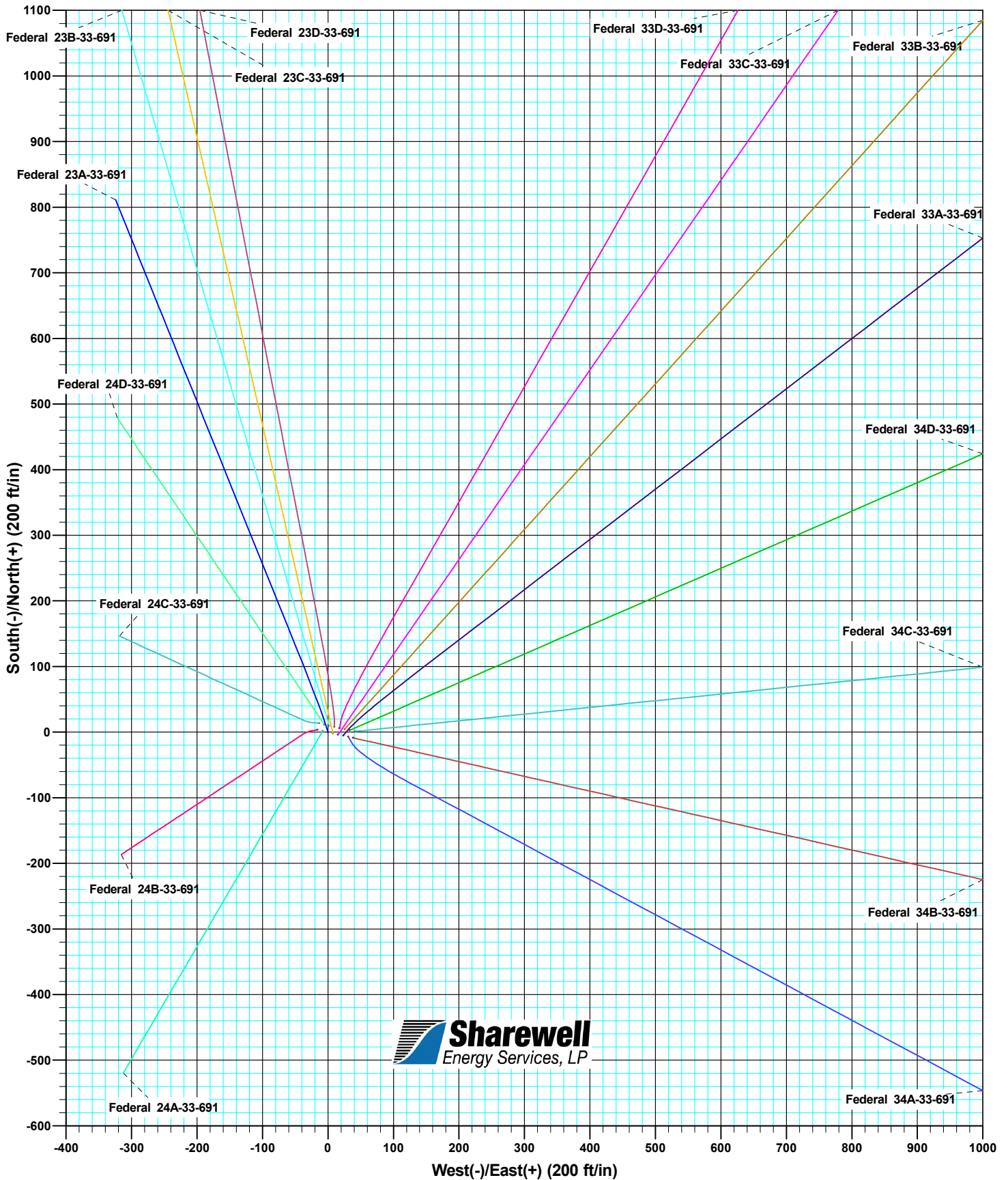
WELL DETAILS: MDP 25 Pad

Ground Level: 6595.00



Bill Barrett Corporation

North American Datum 1983		US State Plane 1983		Colorado Central Zone	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1606011.85	2418614.90	39° 28' 45.05 N	107° 33' 35.53 W



Database:	Compass VM	Local Co-ordinate Reference:	Well Federal 33C-33-691
Company:	Bill Barrett Corp.	TVD Reference:	KB @ 6618.00ft
Project:	Garfield County, Colorado [NAD83]	MD Reference:	KB @ 6618.00ft
Site:	MDP 25 Pad	North Reference:	True
Well:	Federal 33C-33-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 06may11 rbw		

Project	Garfield County, Colorado [NAD83]		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		MDP 25 Pad			
Site Position:		Northing:	1,606,013.85 usft	Latitude:	39° 28' 45.07 N
From:	Lat/Long	Easting:	2,418,607.05 usft	Longitude:	107° 33' 35.63 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.30

Well	Federal 33C-33-691					
Well Position	+N/-S	-5.47 ft	Northing:	1,606,007.85 usft	Latitude:	39° 28' 45.01 N
	+E/-W	23.43 ft	Easting:	2,418,630.35 usft	Longitude:	107° 33' 35.33 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	6,595.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	05/06/11	10.17	65.81	52,304

Design	plan1 06may11 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	34.67

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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.000	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,794.79	29.739	34.67	1,768.44	124.12	85.86	5.00	5.00	0.00	34.67	
4,503.75	29.739	34.67	4,120.60	1,229.28	850.35	0.00	0.00	0.00	0.00	
5,495.06	0.000	0.00	5,068.00	1,436.15	993.45	3.00	-3.00	0.00	180.00	Federal 33C Target
8,885.06	0.000	0.00	8,458.00	1,436.15	993.45	0.00	0.00	0.00	0.00	Federal 33C PBHL 21

Database:	Compass VM	Local Co-ordinate Reference:	Well Federal 33C-33-691
Company:	Bill Barrett Corp.	TVD Reference:	KB @ 6618.00ft
Project:	Garfield County, Colorado [NAD83]	MD Reference:	KB @ 6618.00ft
Site:	MDP 25 Pad	North Reference:	True
Well:	Federal 33C-33-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 06may11 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)
1,200.00	0.000	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 5.00									
1,300.00	5.000	34.67	1,299.87	3.59	2.48	4.36	5.00	5.00	0.00
1,400.00	10.000	34.67	1,398.99	14.32	9.90	17.41	5.00	5.00	0.00
1,500.00	15.000	34.67	1,496.58	32.11	22.21	39.05	5.00	5.00	0.00
1,600.00	20.000	34.67	1,591.93	56.83	39.31	69.11	5.00	5.00	0.00
1,700.00	25.000	34.67	1,684.28	88.30	61.08	107.36	5.00	5.00	0.00
1,794.79	29.739	34.67	1,768.44	124.12	85.86	150.93	5.00	5.00	0.00
Start 2708.96 hold at 1794.79 MD									
1,800.00	29.739	34.67	1,772.96	126.25	87.33	153.51	0.00	0.00	0.00
1,900.00	29.739	34.67	1,859.79	167.05	115.55	203.12	0.00	0.00	0.00
2,000.00	29.739	34.67	1,946.62	207.84	143.77	252.72	0.00	0.00	0.00
2,100.00	29.739	34.67	2,033.45	248.64	171.99	302.33	0.00	0.00	0.00
2,200.00	29.739	34.67	2,120.28	289.44	200.22	351.94	0.00	0.00	0.00
2,300.00	29.739	34.67	2,207.11	330.23	228.44	401.54	0.00	0.00	0.00
2,400.00	29.739	34.67	2,293.94	371.03	256.66	451.15	0.00	0.00	0.00
2,500.00	29.739	34.67	2,380.77	411.82	284.88	500.75	0.00	0.00	0.00
2,600.00	29.739	34.67	2,467.60	452.62	313.10	550.36	0.00	0.00	0.00
2,700.00	29.739	34.67	2,554.42	493.42	341.32	599.96	0.00	0.00	0.00
2,800.00	29.739	34.67	2,641.25	534.21	369.54	649.57	0.00	0.00	0.00
2,900.00	29.739	34.67	2,728.08	575.01	397.76	699.18	0.00	0.00	0.00
3,000.00	29.739	34.67	2,814.91	615.80	425.98	748.78	0.00	0.00	0.00
3,100.00	29.739	34.67	2,901.74	656.60	454.20	798.39	0.00	0.00	0.00
3,200.00	29.739	34.67	2,988.57	697.40	482.42	847.99	0.00	0.00	0.00
3,300.00	29.739	34.67	3,075.40	738.19	510.64	897.60	0.00	0.00	0.00
3,400.00	29.739	34.67	3,162.23	778.99	538.86	947.20	0.00	0.00	0.00
3,500.00	29.739	34.67	3,249.06	819.78	567.08	996.81	0.00	0.00	0.00
3,600.00	29.739	34.67	3,335.89	860.58	595.30	1,046.42	0.00	0.00	0.00
3,700.00	29.739	34.67	3,422.71	901.38	623.52	1,096.02	0.00	0.00	0.00
3,800.00	29.739	34.67	3,509.54	942.17	651.74	1,145.63	0.00	0.00	0.00
3,900.00	29.739	34.67	3,596.37	982.97	679.96	1,195.23	0.00	0.00	0.00
3,924.91	29.739	34.67	3,618.00	993.13	686.99	1,207.59	0.00	0.00	0.00
Mesaverde									
4,000.00	29.739	34.67	3,683.20	1,023.77	708.19	1,244.84	0.00	0.00	0.00
4,100.00	29.739	34.67	3,770.03	1,064.56	736.41	1,294.44	0.00	0.00	0.00
4,200.00	29.739	34.67	3,856.86	1,105.36	764.63	1,344.05	0.00	0.00	0.00
4,300.00	29.739	34.67	3,943.69	1,146.15	792.85	1,393.66	0.00	0.00	0.00
4,400.00	29.739	34.67	4,030.52	1,186.95	821.07	1,443.26	0.00	0.00	0.00
4,500.00	29.739	34.67	4,117.35	1,227.75	849.29	1,492.87	0.00	0.00	0.00
4,503.75	29.739	34.67	4,120.60	1,229.28	850.35	1,494.73	0.00	0.00	0.00
Start Drop -3.00									
4,600.00	26.852	34.67	4,205.34	1,266.79	876.30	1,540.35	3.00	-3.00	0.00
4,700.00	23.852	34.67	4,295.70	1,302.00	900.65	1,583.16	3.00	-3.00	0.00
4,800.00	20.852	34.67	4,388.18	1,333.28	922.29	1,621.18	3.00	-3.00	0.00
4,900.00	17.852	34.67	4,482.52	1,360.52	941.14	1,654.32	3.00	-3.00	0.00
4,989.17	15.177	34.67	4,568.00	1,381.37	955.55	1,679.66	3.00	-3.00	0.00
Price Coal									
5,000.00	14.852	34.67	4,578.46	1,383.68	957.15	1,682.47	3.00	-3.00	0.00
5,100.00	11.852	34.67	4,675.75	1,402.67	970.29	1,705.56	3.00	-3.00	0.00
5,200.00	8.852	34.67	4,774.11	1,417.44	980.51	1,723.53	3.00	-3.00	0.00
5,300.00	5.852	34.67	4,873.28	1,427.96	987.79	1,736.32	3.00	-3.00	0.00
5,400.00	2.852	34.67	4,972.98	1,434.20	992.10	1,743.91	3.00	-3.00	0.00
5,495.06	0.000	0.00	5,068.00	1,436.15	993.45	1,746.27	3.00	-3.00	0.00

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Site:	MDP 25 Pad	North Reference:	True
Well:	Federal 33C-33-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 06may11 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 3390.00 hold at 5495.06 MD - Top of Gas - Federal 33C Target									
5,500.00	0.000	0.00	5,072.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
5,600.00	0.000	0.00	5,172.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
5,700.00	0.000	0.00	5,272.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
5,800.00	0.000	0.00	5,372.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
5,900.00	0.000	0.00	5,472.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
6,000.00	0.000	0.00	5,572.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
6,100.00	0.000	0.00	5,672.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
6,200.00	0.000	0.00	5,772.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
6,300.00	0.000	0.00	5,872.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
6,400.00	0.000	0.00	5,972.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
6,500.00	0.000	0.00	6,072.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
6,600.00	0.000	0.00	6,172.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
6,700.00	0.000	0.00	6,272.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
6,800.00	0.000	0.00	6,372.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
6,900.00	0.000	0.00	6,472.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
7,000.00	0.000	0.00	6,572.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
7,100.00	0.000	0.00	6,672.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
7,200.00	0.000	0.00	6,772.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
7,300.00	0.000	0.00	6,872.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
7,400.00	0.000	0.00	6,972.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
7,500.00	0.000	0.00	7,072.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
7,600.00	0.000	0.00	7,172.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
7,700.00	0.000	0.00	7,272.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
7,800.00	0.000	0.00	7,372.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
7,900.00	0.000	0.00	7,472.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
7,905.06	0.000	0.00	7,478.00	1,436.15	993.45	1,746.27	0.00	0.00	0.00
Rollins									
8,000.00	0.000	0.00	7,572.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
8,100.00	0.000	0.00	7,672.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
8,200.00	0.000	0.00	7,772.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
8,300.00	0.000	0.00	7,872.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
8,400.00	0.000	0.00	7,972.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
8,500.00	0.000	0.00	8,072.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
8,585.06	0.000	0.00	8,158.00	1,436.15	993.45	1,746.27	0.00	0.00	0.00
Corcoran									
8,600.00	0.000	0.00	8,172.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
8,700.00	0.000	0.00	8,272.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
8,800.00	0.000	0.00	8,372.94	1,436.15	993.45	1,746.27	0.00	0.00	0.00
8,885.06	0.000	0.00	8,458.00	1,436.15	993.45	1,746.27	0.00	0.00	0.00
TD at 8885.06 - Federal 33C PBHL 2162 FSL, 2023 FEL									

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Company:	Bill Barrett Corp.	TVD Reference:	KB @ 6618.00ft
Project:	Garfield County, Colorado [NAD83]	MD Reference:	KB @ 6618.00ft
Site:	MDP 25 Pad	North Reference:	True
Well:	Federal 33C-33-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 06may11 rbw		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
Federal 33C Target	0.000	0.00	5,068.00	1,436.15	993.45	1,607,421.10	2,419,656.10	39° 28' 59.21 N	107° 33' 22.66 W
- plan hits target center									
- Circle (radius 25.00)									
Federal 33C PBHL 2162	0.000	0.00	8,458.00	1,436.15	993.45	1,607,421.10	2,419,656.10	39° 28' 59.21 N	107° 33' 22.66 W
- plan hits target center									
- Point									

Casing Points				
Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
(ft)	(ft)	Name	(ft)	(ft)
846.00	846.00	9 5/8"	0.80	1.02

Formations					
Measured Depth	Vertical Depth			Dip	Dip Direction
(ft)	(ft)	Name	Lithology	(°)	(°)
3,924.91	3,618.00	Mesaverde		0.00	
4,989.17	4,568.00	Price Coal		0.00	
5,495.06	5,068.00	Top of Gas		0.00	
7,905.06	7,478.00	Rollins		0.00	
8,585.06	8,158.00	Corcoran		0.00	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,200.00	1,200.00	0.00	0.00	Start Build 5.00
1,794.79	1,768.44	124.12	85.86	Start 2708.96 hold at 1794.79 MD
4,503.75	4,120.60	1,229.28	850.35	Start Drop -3.00
5,495.06	5,068.00	1,436.15	993.45	Start 3390.00 hold at 5495.06 MD
8,885.06	8,458.00	1,436.15	993.45	TD at 8885.06