

BILL BARRETT CORP

**WELD COUNTY, COLORADO
COFFELT 5-61-35_36 NWNW PAD
COFFELT 5-61-35-1609BH2**

Wellbore #1

Plan: Design #1

Standard Planning Report

08 September, 2014



COMPANY DETAILS: BILL BARRETT CORP

Calculation Method: Minimum Curvature
 Error System: ISCWSA
 Scan Method: Closest Approach 3D
 Error Surface: Elliptical Conic
 Warning Method: Error Ratio

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well COFFELT 5-61-35-1609BH2, True North
 Vertical (TVD) Reference: KB @ 4515.0ft (Original Well Elev)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: KB @ 4515.0ft (Original Well Elev)
 Calculation Method: Minimum Curvature

WELL DETAILS: COFFELT 5-61-35-1609BH2

+N/-S +E/-W Northing Easting Latitude Longitude
 0.0 0.0 1377699.60 3366590.9640° 21' 45.799 N 104° 11' 3.908 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1329.9	6.60	219.28	1329.2	-14.7	-12.0	2.00	219.28	-11.6	
4	4835.3	6.60	219.28	4811.4	-326.5	-267.0	0.00	0.00	-257.2	
5	5165.2	0.00	89.72	5140.5	-341.1	-279.0	2.00	180.00	-268.8	
6	5415.2	0.00	89.72	5390.5	-341.1	-279.0	0.00	89.72	-268.8	
7	6165.5	90.03	89.72	5868.0	-338.8	198.7	12.00	89.72	208.7	C 35-1609BH2 LP
8	15782.1	90.03	89.72	5863.0	-291.3	9815.2	0.00	0.00	9819.5	C 35-1609BH2 PBHL

PROJECT DETAILS: WELD COUNTY, COLORADO

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Northern Zone

FORMATION TOP DETAILS

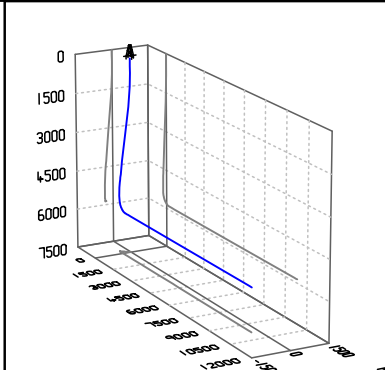
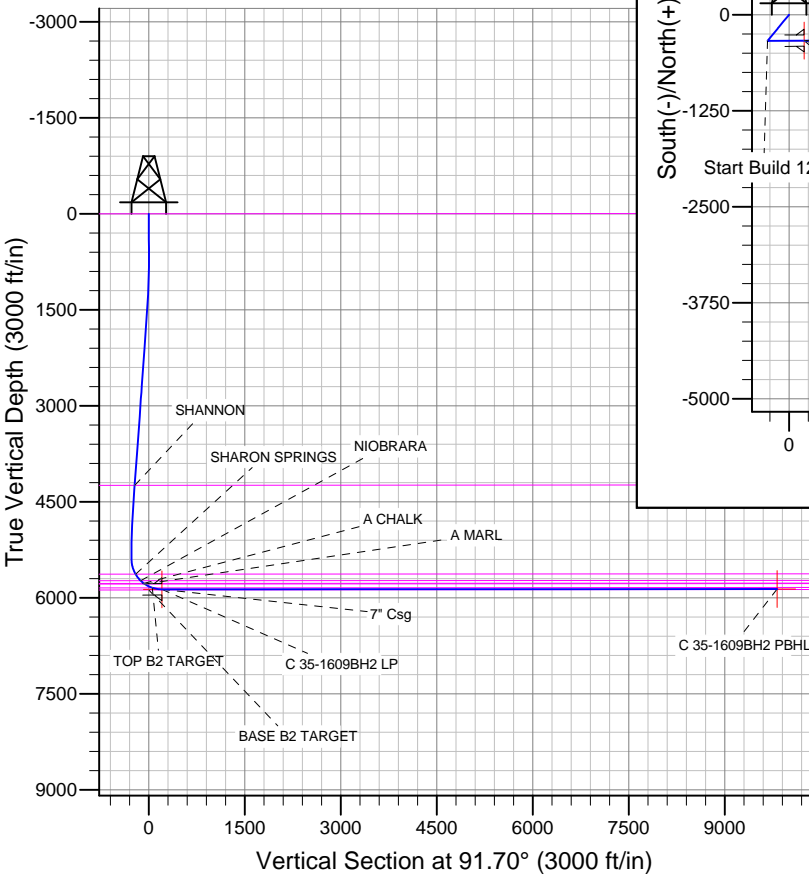
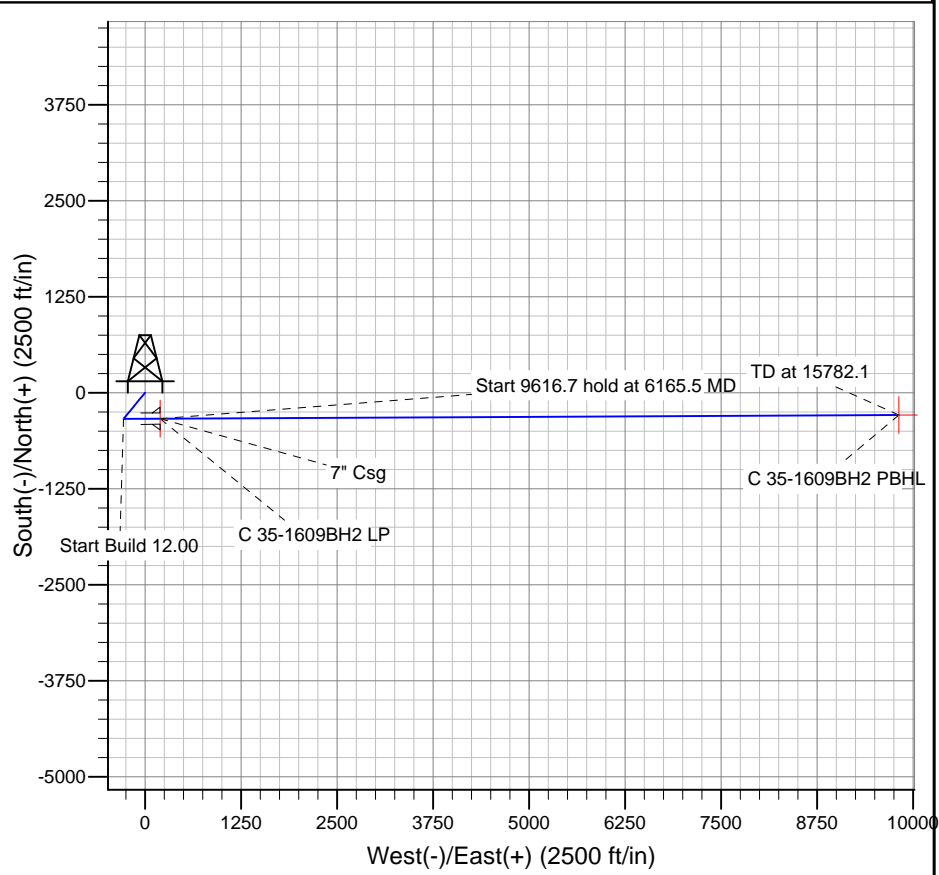
TVDPath	MDPath	Formation
0.0	0.0	BASE B2 TARGET
4242.0	4262.1	FOX HILLS BASE
5632.0	5668.4	SHANNON
5733.0	5797.1	SHARON SPRINGS
5774.0	5860.5	NIOBRARA
5784.0	5877.7	A CHALK
5844.0	6013.2	A MARL
		TOP B2 TARGET

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
C 35-1609BH2 PBHL	5863.0	-291.3	9815.2	Point
C 35-1609BH2 LP	5868.0	-338.8	198.7	Point

CASING DETAILS

TVD	MD	Name	Size
5868.0	6165.5	7" Csg	7



Azimuths to True North
 Magnetic North: 8.11°
 Magnetic Field
 Strength: 52833.3snT
 Dip Angle: 67.00°
 Date: 9/8/2014
 Model: IGRF2010

Bill Barrett Corp
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well COFFELT 5-61-35-1609BH2
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4515.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB @ 4515.0ft (Original Well Elev)
Site:	COFFELT 5-61-35_36 NWNW PAD	North Reference:	True
Well:	COFFELT 5-61-35-1609BH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	WELD COUNTY, COLORADO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	COFFELT 5-61-35_36 NWNW PAD				
Site Position:		Northing:	1,377,730.21 ft	Latitude:	40° 21' 46.102 N
From:	Lat/Long	Easting:	3,366,590.51 ft	Longitude:	104° 11' 3.908 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.85 °

Well	COFFELT 5-61-35-1609BH2					
Well Position	+N-S	-30.6 ft	Northing:	1,377,699.60 ft	Latitude:	40° 21' 45.799 N
	+E-W	0.0 ft	Easting:	3,366,590.96 ft	Longitude:	104° 11' 3.908 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,499.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/8/2014	8.11	67.00	52,833

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)
	0.0	0.0	0.0	91.70

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,329.9	6.60	219.28	1,329.2	-14.7	-12.0	2.00	2.00	0.00	219.28	
4,835.3	6.60	219.28	4,811.4	-326.5	-267.0	0.00	0.00	0.00	0.00	
5,165.2	0.00	89.72	5,140.5	-341.1	-279.0	2.00	-2.00	0.00	180.00	
5,415.2	0.00	89.72	5,390.5	-341.1	-279.0	0.00	0.00	0.00	89.72	
6,165.5	90.03	89.72	5,868.0	-338.8	198.7	12.00	12.00	0.00	89.72	C 35-1609BH2 LP
15,782.1	90.03	89.72	5,863.0	-291.3	9,815.2	0.00	0.00	0.00	0.00	C 35-1609BH2 PB+

Bill Barrett Corp
 Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well COFFELT 5-61-35-1609BH2
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4515.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB @ 4515.0ft (Original Well Elev)
Site:	COFFELT 5-61-35_36 NWNW PAD	North Reference:	True
Well:	COFFELT 5-61-35-1609BH2	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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
FOX HILLS BASE										
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	2.00	219.28	1,100.0	-1.4	-1.1	-1.1	2.00	2.00	0.00	
1,200.0	4.00	219.28	1,199.8	-5.4	-4.4	-4.3	2.00	2.00	0.00	
1,300.0	6.00	219.28	1,299.5	-12.1	-9.9	-9.6	2.00	2.00	0.00	
1,329.9	6.60	219.28	1,329.2	-14.7	-12.0	-11.6	2.00	2.00	0.00	
1,400.0	6.60	219.28	1,398.8	-20.9	-17.1	-16.5	0.00	0.00	0.00	
1,500.0	6.60	219.28	1,498.1	-29.8	-24.4	-23.5	0.00	0.00	0.00	
1,600.0	6.60	219.28	1,597.5	-38.7	-31.7	-30.5	0.00	0.00	0.00	
1,700.0	6.60	219.28	1,696.8	-47.6	-38.9	-37.5	0.00	0.00	0.00	
1,800.0	6.60	219.28	1,796.2	-56.5	-46.2	-44.5	0.00	0.00	0.00	
1,900.0	6.60	219.28	1,895.5	-65.4	-53.5	-51.5	0.00	0.00	0.00	
2,000.0	6.60	219.28	1,994.8	-74.3	-60.8	-58.5	0.00	0.00	0.00	
2,100.0	6.60	219.28	2,094.2	-83.2	-68.0	-65.5	0.00	0.00	0.00	
2,200.0	6.60	219.28	2,193.5	-92.1	-75.3	-72.5	0.00	0.00	0.00	
2,300.0	6.60	219.28	2,292.8	-101.0	-82.6	-79.5	0.00	0.00	0.00	
2,400.0	6.60	219.28	2,392.2	-109.9	-89.9	-86.6	0.00	0.00	0.00	
2,500.0	6.60	219.28	2,491.5	-118.8	-97.1	-93.6	0.00	0.00	0.00	
2,600.0	6.60	219.28	2,590.9	-127.6	-104.4	-100.6	0.00	0.00	0.00	
2,700.0	6.60	219.28	2,690.2	-136.5	-111.7	-107.6	0.00	0.00	0.00	
2,800.0	6.60	219.28	2,789.5	-145.4	-119.0	-114.6	0.00	0.00	0.00	
2,900.0	6.60	219.28	2,888.9	-154.3	-126.2	-121.6	0.00	0.00	0.00	
3,000.0	6.60	219.28	2,988.2	-163.2	-133.5	-128.6	0.00	0.00	0.00	
3,100.0	6.60	219.28	3,087.5	-172.1	-140.8	-135.6	0.00	0.00	0.00	
3,200.0	6.60	219.28	3,186.9	-181.0	-148.0	-142.6	0.00	0.00	0.00	
3,300.0	6.60	219.28	3,286.2	-189.9	-155.3	-149.6	0.00	0.00	0.00	
3,400.0	6.60	219.28	3,385.6	-198.8	-162.6	-156.6	0.00	0.00	0.00	
3,500.0	6.60	219.28	3,484.9	-207.7	-169.9	-163.6	0.00	0.00	0.00	
3,600.0	6.60	219.28	3,584.2	-216.6	-177.1	-170.6	0.00	0.00	0.00	
3,700.0	6.60	219.28	3,683.6	-225.5	-184.4	-177.6	0.00	0.00	0.00	
3,800.0	6.60	219.28	3,782.9	-234.4	-191.7	-184.7	0.00	0.00	0.00	
3,900.0	6.60	219.28	3,882.3	-243.3	-199.0	-191.7	0.00	0.00	0.00	
4,000.0	6.60	219.28	3,981.6	-252.2	-206.2	-198.7	0.00	0.00	0.00	
4,100.0	6.60	219.28	4,080.9	-261.1	-213.5	-205.7	0.00	0.00	0.00	
4,200.0	6.60	219.28	4,180.3	-270.0	-220.8	-212.7	0.00	0.00	0.00	
4,262.1	6.60	219.28	4,242.0	-275.5	-225.3	-217.0	0.00	0.00	0.00	
SHANNON										
4,300.0	6.60	219.28	4,279.6	-278.8	-228.1	-219.7	0.00	0.00	0.00	
4,400.0	6.60	219.28	4,378.9	-287.7	-235.3	-226.7	0.00	0.00	0.00	
4,500.0	6.60	219.28	4,478.3	-296.6	-242.6	-233.7	0.00	0.00	0.00	
4,600.0	6.60	219.28	4,577.6	-305.5	-249.9	-240.7	0.00	0.00	0.00	
4,700.0	6.60	219.28	4,677.0	-314.4	-257.2	-247.7	0.00	0.00	0.00	
4,800.0	6.60	219.28	4,776.3	-323.3	-264.4	-254.7	0.00	0.00	0.00	
4,835.3	6.60	219.28	4,811.4	-326.5	-267.0	-257.2	0.00	0.00	0.00	

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Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well COFFELT 5-61-35-1609BH2
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4515.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB @ 4515.0ft (Original Well Elev)
Site:	COFFELT 5-61-35_36 NWNW PAD	North Reference:	True
Well:	COFFELT 5-61-35-1609BH2	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)
4,900.0	5.30	219.28	4,875.7	-331.6	-271.3	-261.3	2.00	-2.00	0.00
5,000.0	3.30	219.28	4,975.4	-337.5	-276.0	-265.9	2.00	-2.00	0.00
5,100.0	1.30	219.28	5,075.3	-340.6	-278.5	-268.3	2.00	-2.00	0.00
5,165.2	0.00	89.72	5,140.5	-341.1	-279.0	-268.8	2.00	-2.00	0.00
5,200.0	0.00	89.72	5,175.3	-341.1	-279.0	-268.8	0.00	0.00	0.00
5,300.0	0.00	89.72	5,275.3	-341.1	-279.0	-268.8	0.00	0.00	0.00
5,400.0	0.00	89.72	5,375.3	-341.1	-279.0	-268.8	0.00	0.00	0.00
5,415.2	0.00	89.72	5,390.5	-341.1	-279.0	-268.8	0.00	0.00	0.00
5,500.0	10.18	89.72	5,474.9	-341.1	-271.5	-261.3	12.00	12.00	0.00
5,600.0	22.18	89.72	5,570.7	-341.0	-243.7	-233.5	12.00	12.00	0.00
5,668.4	30.38	89.72	5,632.0	-340.8	-213.5	-203.3	12.00	12.00	0.00
SHARON SPRINGS									
5,700.0	34.18	89.72	5,658.7	-340.7	-196.6	-186.4	12.00	12.00	0.00
5,797.1	45.83	89.72	5,733.0	-340.4	-134.3	-124.1	12.00	12.00	0.00
NIOBRARA									
5,800.0	46.18	89.72	5,735.0	-340.4	-132.2	-122.0	12.00	12.00	0.00
5,860.5	53.43	89.72	5,774.0	-340.2	-86.0	-75.9	12.00	12.00	0.00
A CHALK									
5,877.7	55.49	89.72	5,784.0	-340.1	-72.0	-61.9	12.00	12.00	0.00
A MARL									
5,900.0	58.18	89.72	5,796.2	-340.0	-53.3	-43.2	12.00	12.00	0.00
6,000.0	70.17	89.72	5,839.7	-339.6	36.5	46.6	12.00	12.00	0.00
6,013.2	71.76	89.72	5,844.0	-339.5	49.0	59.0	12.00	12.00	0.00
TOP B2 TARGET									
6,100.0	82.17	89.72	5,863.6	-339.1	133.4	143.4	12.00	12.00	0.00
6,165.5	90.02	89.72	5,868.0	-338.8	198.7	208.7	11.99	11.99	0.00
7" Csg - C 35-1609BH2 LP									
6,200.0	90.03	89.72	5,868.0	-338.6	233.2	243.2	0.01	0.01	0.00
6,300.0	90.03	89.72	5,867.9	-338.1	333.2	343.1	0.00	0.00	0.00
6,400.0	90.03	89.72	5,867.9	-337.6	433.2	443.1	0.00	0.00	0.00
6,500.0	90.03	89.72	5,867.8	-337.1	533.2	543.0	0.00	0.00	0.00
6,600.0	90.03	89.72	5,867.8	-336.6	633.2	642.9	0.00	0.00	0.00
6,700.0	90.03	89.72	5,867.7	-336.1	733.2	742.9	0.00	0.00	0.00
6,800.0	90.03	89.72	5,867.7	-335.7	833.2	842.8	0.00	0.00	0.00
6,900.0	90.03	89.72	5,867.6	-335.2	933.2	942.8	0.00	0.00	0.00
7,000.0	90.03	89.72	5,867.6	-334.7	1,033.2	1,042.7	0.00	0.00	0.00
7,100.0	90.03	89.72	5,867.5	-334.2	1,133.2	1,142.6	0.00	0.00	0.00
7,200.0	90.03	89.72	5,867.5	-333.7	1,233.2	1,242.6	0.00	0.00	0.00
7,300.0	90.03	89.72	5,867.4	-333.2	1,333.2	1,342.5	0.00	0.00	0.00
7,400.0	90.03	89.72	5,867.4	-332.7	1,433.2	1,442.5	0.00	0.00	0.00
7,500.0	90.03	89.72	5,867.3	-332.2	1,533.2	1,542.4	0.00	0.00	0.00
7,600.0	90.03	89.72	5,867.3	-331.7	1,633.2	1,642.3	0.00	0.00	0.00
7,700.0	90.03	89.72	5,867.2	-331.2	1,733.2	1,742.3	0.00	0.00	0.00
7,800.0	90.03	89.72	5,867.2	-330.7	1,833.2	1,842.2	0.00	0.00	0.00
7,900.0	90.03	89.72	5,867.1	-330.2	1,933.2	1,942.2	0.00	0.00	0.00
8,000.0	90.03	89.72	5,867.0	-329.7	2,033.2	2,042.1	0.00	0.00	0.00
8,100.0	90.03	89.72	5,867.0	-329.2	2,133.2	2,142.0	0.00	0.00	0.00
8,200.0	90.03	89.72	5,866.9	-328.7	2,233.2	2,242.0	0.00	0.00	0.00
8,300.0	90.03	89.72	5,866.9	-328.2	2,333.2	2,341.9	0.00	0.00	0.00
8,400.0	90.03	89.72	5,866.8	-327.8	2,433.2	2,441.9	0.00	0.00	0.00
8,500.0	90.03	89.72	5,866.8	-327.3	2,533.2	2,541.8	0.00	0.00	0.00
8,600.0	90.03	89.72	5,866.7	-326.8	2,633.2	2,641.7	0.00	0.00	0.00
8,700.0	90.03	89.72	5,866.7	-326.3	2,733.2	2,741.7	0.00	0.00	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well COFFELT 5-61-35-1609BH2
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4515.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB @ 4515.0ft (Original Well Elev)
Site:	COFFELT 5-61-35_36 NWNW PAD	North Reference:	True
Well:	COFFELT 5-61-35-1609BH2	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)
8,800.0	90.03	89.72	5,866.6	-325.8	2,833.2	2,841.6	0.00	0.00	0.00
8,900.0	90.03	89.72	5,866.6	-325.3	2,933.2	2,941.6	0.00	0.00	0.00
9,000.0	90.03	89.72	5,866.5	-324.8	3,033.2	3,041.5	0.00	0.00	0.00
9,100.0	90.03	89.72	5,866.5	-324.3	3,133.2	3,141.4	0.00	0.00	0.00
9,200.0	90.03	89.72	5,866.4	-323.8	3,233.2	3,241.4	0.00	0.00	0.00
9,300.0	90.03	89.72	5,866.4	-323.3	3,333.2	3,341.3	0.00	0.00	0.00
9,400.0	90.03	89.72	5,866.3	-322.8	3,433.2	3,441.3	0.00	0.00	0.00
9,500.0	90.03	89.72	5,866.3	-322.3	3,533.2	3,541.2	0.00	0.00	0.00
9,600.0	90.03	89.72	5,866.2	-321.8	3,633.2	3,641.1	0.00	0.00	0.00
9,700.0	90.03	89.72	5,866.2	-321.3	3,733.2	3,741.1	0.00	0.00	0.00
9,800.0	90.03	89.72	5,866.1	-320.8	3,833.2	3,841.0	0.00	0.00	0.00
9,900.0	90.03	89.72	5,866.1	-320.3	3,933.2	3,941.0	0.00	0.00	0.00
10,000.0	90.03	89.72	5,866.0	-319.9	4,033.2	4,040.9	0.00	0.00	0.00
10,100.0	90.03	89.72	5,866.0	-319.4	4,133.2	4,140.8	0.00	0.00	0.00
10,200.0	90.03	89.72	5,865.9	-318.9	4,233.2	4,240.8	0.00	0.00	0.00
10,300.0	90.03	89.72	5,865.9	-318.4	4,333.2	4,340.7	0.00	0.00	0.00
10,400.0	90.03	89.72	5,865.8	-317.9	4,433.2	4,440.7	0.00	0.00	0.00
10,500.0	90.03	89.72	5,865.7	-317.4	4,533.2	4,540.6	0.00	0.00	0.00
10,600.0	90.03	89.72	5,865.7	-316.9	4,633.2	4,640.5	0.00	0.00	0.00
10,700.0	90.03	89.72	5,865.6	-316.4	4,733.2	4,740.5	0.00	0.00	0.00
10,800.0	90.03	89.72	5,865.6	-315.9	4,833.2	4,840.4	0.00	0.00	0.00
10,900.0	90.03	89.72	5,865.5	-315.4	4,933.2	4,940.4	0.00	0.00	0.00
11,000.0	90.03	89.72	5,865.5	-314.9	5,033.2	5,040.3	0.00	0.00	0.00
11,100.0	90.03	89.72	5,865.4	-314.4	5,133.2	5,140.2	0.00	0.00	0.00
11,200.0	90.03	89.72	5,865.4	-313.9	5,233.2	5,240.2	0.00	0.00	0.00
11,300.0	90.03	89.72	5,865.3	-313.4	5,333.2	5,340.1	0.00	0.00	0.00
11,400.0	90.03	89.72	5,865.3	-312.9	5,433.2	5,440.1	0.00	0.00	0.00
11,500.0	90.03	89.72	5,865.2	-312.4	5,533.2	5,540.0	0.00	0.00	0.00
11,600.0	90.03	89.72	5,865.2	-312.0	5,633.2	5,639.9	0.00	0.00	0.00
11,700.0	90.03	89.72	5,865.1	-311.5	5,733.2	5,739.9	0.00	0.00	0.00
11,800.0	90.03	89.72	5,865.1	-311.0	5,833.2	5,839.8	0.00	0.00	0.00
11,900.0	90.03	89.72	5,865.0	-310.5	5,933.2	5,939.8	0.00	0.00	0.00
12,000.0	90.03	89.72	5,865.0	-310.0	6,033.2	6,039.7	0.00	0.00	0.00
12,100.0	90.03	89.72	5,864.9	-309.5	6,133.2	6,139.6	0.00	0.00	0.00
12,200.0	90.03	89.72	5,864.9	-309.0	6,233.2	6,239.6	0.00	0.00	0.00
12,300.0	90.03	89.72	5,864.8	-308.5	6,333.2	6,339.5	0.00	0.00	0.00
12,400.0	90.03	89.72	5,864.8	-308.0	6,433.2	6,439.5	0.00	0.00	0.00
12,500.0	90.03	89.72	5,864.7	-307.5	6,533.2	6,539.4	0.00	0.00	0.00
12,600.0	90.03	89.72	5,864.7	-307.0	6,633.2	6,639.3	0.00	0.00	0.00
12,700.0	90.03	89.72	5,864.6	-306.5	6,733.2	6,739.3	0.00	0.00	0.00
12,800.0	90.03	89.72	5,864.6	-306.0	6,833.2	6,839.2	0.00	0.00	0.00
12,900.0	90.03	89.72	5,864.5	-305.5	6,933.2	6,939.2	0.00	0.00	0.00
13,000.0	90.03	89.72	5,864.4	-305.0	7,033.1	7,039.1	0.00	0.00	0.00
13,100.0	90.03	89.72	5,864.4	-304.5	7,133.1	7,139.0	0.00	0.00	0.00
13,200.0	90.03	89.72	5,864.3	-304.0	7,233.1	7,239.0	0.00	0.00	0.00
13,300.0	90.03	89.72	5,864.3	-303.6	7,333.1	7,338.9	0.00	0.00	0.00
13,400.0	90.03	89.72	5,864.2	-303.1	7,433.1	7,438.9	0.00	0.00	0.00
13,500.0	90.03	89.72	5,864.2	-302.6	7,533.1	7,538.8	0.00	0.00	0.00
13,600.0	90.03	89.72	5,864.1	-302.1	7,633.1	7,638.7	0.00	0.00	0.00
13,700.0	90.03	89.72	5,864.1	-301.6	7,733.1	7,738.7	0.00	0.00	0.00
13,800.0	90.03	89.72	5,864.0	-301.1	7,833.1	7,838.6	0.00	0.00	0.00
13,900.0	90.03	89.72	5,864.0	-300.6	7,933.1	7,938.6	0.00	0.00	0.00
14,000.0	90.03	89.72	5,863.9	-300.1	8,033.1	8,038.5	0.00	0.00	0.00
14,100.0	90.03	89.72	5,863.9	-299.6	8,133.1	8,138.4	0.00	0.00	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well COFFELT 5-61-35-1609BH2
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4515.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB @ 4515.0ft (Original Well Elev)
Site:	COFFELT 5-61-35_36 NWNW PAD	North Reference:	True
Well:	COFFELT 5-61-35-1609BH2	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)
14,200.0	90.03	89.72	5,863.8	-299.1	8,233.1	8,238.4	0.00	0.00	0.00
14,300.0	90.03	89.72	5,863.8	-298.6	8,333.1	8,338.3	0.00	0.00	0.00
14,400.0	90.03	89.72	5,863.7	-298.1	8,433.1	8,438.3	0.00	0.00	0.00
14,500.0	90.03	89.72	5,863.7	-297.6	8,533.1	8,538.2	0.00	0.00	0.00
14,600.0	90.03	89.72	5,863.6	-297.1	8,633.1	8,638.1	0.00	0.00	0.00
14,700.0	90.03	89.72	5,863.6	-296.6	8,733.1	8,738.1	0.00	0.00	0.00
14,800.0	90.03	89.72	5,863.5	-296.1	8,833.1	8,838.0	0.00	0.00	0.00
14,900.0	90.03	89.72	5,863.5	-295.7	8,933.1	8,938.0	0.00	0.00	0.00
15,000.0	90.03	89.72	5,863.4	-295.2	9,033.1	9,037.9	0.00	0.00	0.00
15,100.0	90.03	89.72	5,863.4	-294.7	9,133.1	9,137.8	0.00	0.00	0.00
15,200.0	90.03	89.72	5,863.3	-294.2	9,233.1	9,237.8	0.00	0.00	0.00
15,300.0	90.03	89.72	5,863.3	-293.7	9,333.1	9,337.7	0.00	0.00	0.00
15,400.0	90.03	89.72	5,863.2	-293.2	9,433.1	9,437.7	0.00	0.00	0.00
15,500.0	90.03	89.72	5,863.1	-292.7	9,533.1	9,537.6	0.00	0.00	0.00
15,600.0	90.03	89.72	5,863.1	-292.2	9,633.1	9,637.5	0.00	0.00	0.00
15,700.0	90.03	89.72	5,863.0	-291.7	9,733.1	9,737.5	0.00	0.00	0.00
15,782.1	90.03	89.72	5,863.0	-291.3	9,815.2	9,819.5	0.00	0.00	0.00

C 35-1609BH2 PBHL

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,165.5	5,868.0	7" Csg	7	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
0.0	0.0	FOX HILLS BASE		-0.03	89.72
4,262.1	4,242.0	SHANNON		-0.03	89.72
5,668.4	5,632.0	SHARON SPRINGS		-0.03	89.72
5,797.1	5,733.0	NIOBRARA		-0.03	89.72
5,860.5	5,774.0	A CHALK		-0.03	89.72
5,877.7	5,784.0	A MARL		-0.03	89.72
6,013.2	5,844.0	TOP B2 TARGET		-0.03	89.72
	5,878.0	BASE B2 TARGET		-0.03	89.72