

# **BILL BARRETT CORP**

**WELD COUNTY, COLORADO**

**Hawkins 5-61-21 Pad**

**Hawkins 6-61-21-3340BH**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**12 June, 2013**



Bill Barrett Corporation

## 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 Hawkins 6-61-21-3340BH, True North  
Vertical (TVD) Reference: KB @ 4688.0ft (Original Well Elev)  
Section (VS) Reference: Slot - (0.0N, 0.0E)  
Measured Depth Reference: KB @ 4688.0ft (Original Well Elev)  
Calculation Method: Minimum Curvature

## WELL DETAILS: Hawkins 6-61-21-3340BH

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1384933.89	3355857.41	40° 22' 58.832 N	104° 13' 21.212 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	2353.7	20.31	346.60	2325.5	230.9	-55.0	1.50	346.60	-11.1	
4	3833.6	20.31	346.60	3713.5	730.5	-174.0	0.00	0.00	-35.3	
5	5187.3	0.00	0.00	5039.0	961.4	-229.0	1.50	180.00	-46.4	
6	5687.3	0.00	0.00	5539.0	961.4	-229.0	0.00	0.00	-46.4	
7	6589.6	90.23	91.27	6112.0	948.7	346.1	10.00	91.27	516.3	Hawkins 3340BH LP
8	10772.2	90.23	91.27	6095.2	856.0	4527.6	0.00	0.00	4607.9	Hawkins 3340BH 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

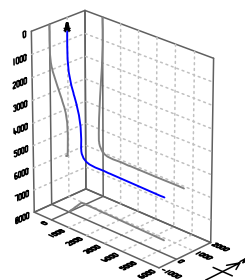
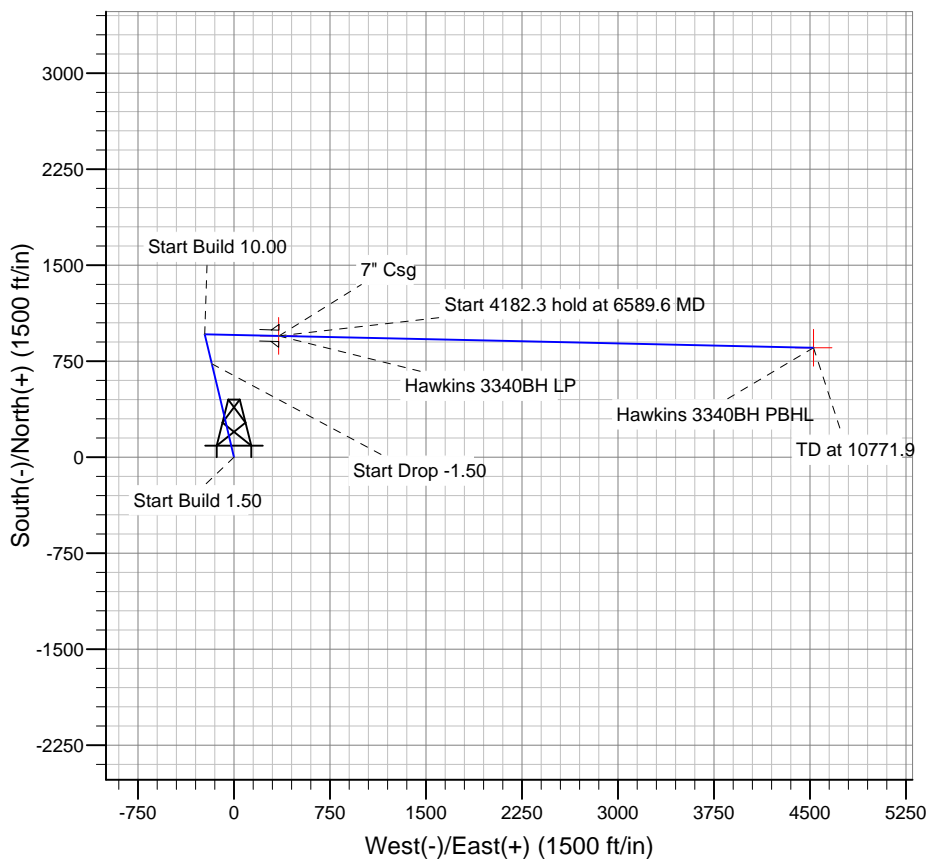
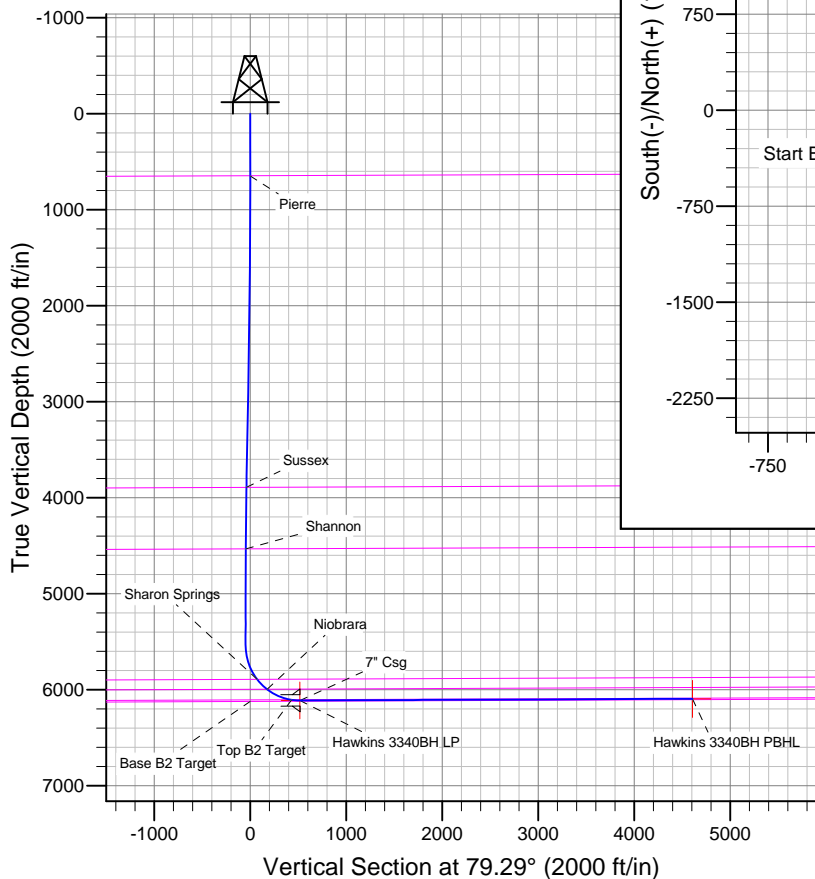
TVDPath	MDPath	Formation
647.0	647.0	Base B2 Target
3892.8	4023.2	Pierre
4534.0	4680.8	Sussex
5892.5	6068.3	Shannon
5996.1	6216.5	Sharon Springs
6106.0	6504.8	Niobrara
		Top B2 Target

## CASING DETAILS

TVD	MD	Name	Size
6111.9	6595.0	7" Csg	7

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Hawkins 3340BH PBHL	6096.0	856.2	4527.3	Point
Hawkins 3340BH LP	6112.0	948.6	347.1	Point



Azimuths to True North  
Magnetic North: 8.30°  
Magnetic Field  
Strength: 52970.2snT  
Dip Angle: 67.06°  
Date: 6/12/2013  
Model: IGRF2010

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Hawkins 6-61-21-3340BH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 4688.0ft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB @ 4688.0ft (Original Well Elev)
<b>Site:</b>	Hawkins 5-61-21 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Hawkins 6-61-21-3340BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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

Site		Hawkins 5-61-21 Pad			
Site Position:		Northing:	1,384,873.79ft	Latitude:	40° 22' 58.238 N
From:	Lat/Long	Easting:	3,355,857.44ft	Longitude:	104° 13' 21.223 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.83 °

Well		Hawkins 6-61-21-3340BH				
Well Position	+N-S	60.1 ft	Northing:	1,384,933.89 ft	Latitude:	40° 22' 58.832 N
	+E-W	0.8 ft	Easting:	3,355,857.41 ft	Longitude:	104° 13' 21.212 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,665.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	6/12/2013	8.30	67.06	52,970

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	79.29	

<b>Plan Sections</b>										
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	
2,353.7	20.31	346.60	2,325.5	230.9	-55.0	1.50	1.50	0.00	346.60	
3,833.6	20.31	346.60	3,713.5	730.5	-174.0	0.00	0.00	0.00	0.00	
5,187.3	0.00	0.00	5,039.0	961.4	-229.0	1.50	-1.50	0.00	180.00	
5,687.3	0.00	0.00	5,539.0	961.4	-229.0	0.00	0.00	0.00	0.00	
6,589.6	90.23	91.27	6,112.0	948.7	346.1	10.00	10.00	0.00	91.27	Hawkins 3340BH LI
10,772.2	90.23	91.27	6,095.2	856.0	4,527.6	0.00	0.00	0.00	0.00	Hawkins 3340BH P

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## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Hawkins 6-61-21-3340BH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 4688.0ft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB @ 4688.0ft (Original Well Elev)
<b>Site:</b>	Hawkins 5-61-21 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Hawkins 6-61-21-3340BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
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
647.0	0.00	0.00	647.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Pierre</b>									
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	1.50	346.60	1,100.0	1.3	-0.3	-0.1	1.50	1.50	0.00
1,200.0	3.00	346.60	1,199.9	5.1	-1.2	-0.2	1.50	1.50	0.00
1,300.0	4.50	346.60	1,299.7	11.5	-2.7	-0.6	1.50	1.50	0.00
1,400.0	6.00	346.60	1,399.3	20.4	-4.8	-1.0	1.50	1.50	0.00
1,500.0	7.50	346.60	1,498.6	31.8	-7.6	-1.5	1.50	1.50	0.00
1,600.0	9.00	346.60	1,597.5	45.7	-10.9	-2.2	1.50	1.50	0.00
1,700.0	10.50	346.60	1,696.1	62.2	-14.8	-3.0	1.50	1.50	0.00
1,800.0	12.00	346.60	1,794.2	81.2	-19.3	-3.9	1.50	1.50	0.00
1,900.0	13.50	346.60	1,891.7	102.7	-24.5	-5.0	1.50	1.50	0.00
2,000.0	15.00	346.60	1,988.6	126.6	-30.2	-6.1	1.50	1.50	0.00
2,100.0	16.50	346.60	2,084.9	153.0	-36.4	-7.4	1.50	1.50	0.00
2,200.0	18.00	346.60	2,180.4	181.9	-43.3	-8.8	1.50	1.50	0.00
2,300.0	19.50	346.60	2,275.0	213.1	-50.8	-10.3	1.50	1.50	0.00
2,353.7	20.31	346.60	2,325.5	230.9	-55.0	-11.1	1.50	1.50	0.00
2,400.0	20.31	346.60	2,369.0	246.5	-58.7	-11.9	0.00	0.00	0.00
2,500.0	20.31	346.60	2,462.7	280.3	-66.8	-13.5	0.00	0.00	0.00
2,600.0	20.31	346.60	2,556.5	314.1	-74.8	-15.2	0.00	0.00	0.00
2,700.0	20.31	346.60	2,650.3	347.8	-82.8	-16.8	0.00	0.00	0.00
2,800.0	20.31	346.60	2,744.1	381.6	-90.9	-18.4	0.00	0.00	0.00
2,900.0	20.31	346.60	2,837.9	415.3	-98.9	-20.0	0.00	0.00	0.00
3,000.0	20.31	346.60	2,931.7	449.1	-107.0	-21.7	0.00	0.00	0.00
3,100.0	20.31	346.60	3,025.5	482.8	-115.0	-23.3	0.00	0.00	0.00
3,200.0	20.31	346.60	3,119.2	516.6	-123.1	-24.9	0.00	0.00	0.00
3,300.0	20.31	346.60	3,213.0	550.4	-131.1	-26.6	0.00	0.00	0.00
3,400.0	20.31	346.60	3,306.8	584.1	-139.1	-28.2	0.00	0.00	0.00
3,500.0	20.31	346.60	3,400.6	617.9	-147.2	-29.8	0.00	0.00	0.00
3,600.0	20.31	346.60	3,494.4	651.6	-155.2	-31.5	0.00	0.00	0.00
3,700.0	20.31	346.60	3,588.2	685.4	-163.3	-33.1	0.00	0.00	0.00
3,800.0	20.31	346.60	3,682.0	719.2	-171.3	-34.7	0.00	0.00	0.00
3,833.6	20.31	346.60	3,713.5	730.5	-174.0	-35.3	0.00	0.00	0.00
3,900.0	19.31	346.60	3,775.9	752.4	-179.2	-36.3	1.50	-1.50	0.00
4,000.0	17.81	346.60	3,870.7	783.3	-186.6	-37.8	1.50	-1.50	0.00
4,023.2	17.46	346.60	3,892.8	790.2	-188.2	-38.1	1.50	-1.50	0.00
<b>Sussex</b>									
4,100.0	16.31	346.60	3,966.3	811.9	-193.4	-39.2	1.50	-1.50	0.00
4,200.0	14.81	346.60	4,062.7	838.0	-199.6	-40.4	1.50	-1.50	0.00
4,300.0	13.31	346.60	4,159.7	861.6	-205.2	-41.6	1.50	-1.50	0.00
4,400.0	11.81	346.60	4,257.3	882.8	-210.3	-42.6	1.50	-1.50	0.00
4,500.0	10.31	346.60	4,355.4	901.4	-214.7	-43.5	1.50	-1.50	0.00
4,600.0	8.81	346.60	4,454.0	917.6	-218.6	-44.3	1.50	-1.50	0.00
4,680.8	7.60	346.60	4,534.0	928.8	-221.2	-44.8	1.50	-1.50	0.00

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## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Hawkins 6-61-21-3340BH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 4688.0ft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB @ 4688.0ft (Original Well Elev)
<b>Site:</b>	Hawkins 5-61-21 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Hawkins 6-61-21-3340BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
<b>Shannon</b>									
4,700.0	7.31	346.60	4,553.0	931.2	-221.8	-45.0	1.50	-1.50	0.00
4,800.0	5.81	346.60	4,652.4	942.3	-224.5	-45.5	1.50	-1.50	0.00
4,900.0	4.31	346.60	4,752.0	950.9	-226.5	-45.9	1.50	-1.50	0.00
5,000.0	2.81	346.60	4,851.8	956.9	-227.9	-46.2	1.50	-1.50	0.00
5,100.0	1.31	346.60	4,951.7	960.4	-228.8	-46.4	1.50	-1.50	0.00
5,187.3	0.00	0.00	5,039.0	961.4	-229.0	-46.4	1.50	-1.50	0.00
5,200.0	0.00	0.00	5,051.7	961.4	-229.0	-46.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,151.7	961.4	-229.0	-46.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,251.7	961.4	-229.0	-46.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,351.7	961.4	-229.0	-46.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,451.7	961.4	-229.0	-46.4	0.00	0.00	0.00
5,687.3	0.00	0.00	5,539.0	961.4	-229.0	-46.4	0.00	0.00	0.00
5,700.0	1.27	91.27	5,551.7	961.4	-228.9	-46.3	10.00	10.00	0.00
5,800.0	11.27	91.27	5,651.0	961.2	-218.0	-35.6	10.00	10.00	0.00
5,900.0	21.27	91.27	5,746.9	960.5	-190.0	-8.2	10.00	10.00	0.00
6,000.0	31.27	91.27	5,836.4	959.6	-145.8	35.0	10.00	10.00	0.00
6,068.3	38.10	91.27	5,892.5	958.7	-107.0	73.0	10.00	10.00	0.00
<b>Sharon Springs</b>									
6,100.0	41.27	91.27	5,916.9	958.2	-86.7	92.8	10.00	10.00	0.00
6,200.0	51.27	91.27	5,986.0	956.6	-14.6	163.4	10.00	10.00	0.00
6,216.5	52.92	91.27	5,996.1	956.4	-1.6	176.1	10.00	10.00	0.00
<b>Niobrara</b>									
6,300.0	61.27	91.27	6,041.4	954.8	68.5	244.7	10.00	10.00	0.00
6,400.0	71.27	91.27	6,081.6	952.8	159.9	334.1	10.00	10.00	0.00
6,500.0	81.27	91.27	6,105.3	950.6	256.9	429.0	10.00	10.00	0.00
6,504.8	81.75	91.27	6,106.0	950.5	261.7	433.7	10.00	10.00	0.00
<b>Top B2 Target</b>									
6,589.6	90.23	91.27	6,112.0	948.7	346.1	516.3	10.00	10.00	0.00
6,590.6	90.23	91.27	6,112.0	948.6	347.1	517.3	0.00	0.00	0.00
<b>Hawkins 3340BH LP</b>									
6,595.0	90.23	91.27	6,111.9	948.5	351.5	521.6	0.00	0.00	0.00
<b>7" Csg</b>									
6,600.0	90.23	91.27	6,111.9	948.4	356.5	526.5	0.00	0.00	0.00
6,700.0	90.23	91.27	6,111.5	946.2	456.5	624.3	0.00	0.00	0.00
6,800.0	90.23	91.27	6,111.1	944.0	556.5	722.2	0.00	0.00	0.00
6,900.0	90.23	91.27	6,110.7	941.8	656.5	820.0	0.00	0.00	0.00
7,000.0	90.23	91.27	6,110.3	939.6	756.4	917.8	0.00	0.00	0.00
7,100.0	90.23	91.27	6,109.9	937.4	856.4	1,015.6	0.00	0.00	0.00
7,200.0	90.23	91.27	6,109.5	935.1	956.4	1,113.5	0.00	0.00	0.00
7,300.0	90.23	91.27	6,109.1	932.9	1,056.4	1,211.3	0.00	0.00	0.00
7,400.0	90.23	91.27	6,108.7	930.7	1,156.3	1,309.1	0.00	0.00	0.00
7,500.0	90.23	91.27	6,108.3	928.5	1,256.3	1,406.9	0.00	0.00	0.00
7,600.0	90.23	91.27	6,107.9	926.3	1,356.3	1,504.7	0.00	0.00	0.00
7,700.0	90.23	91.27	6,107.5	924.1	1,456.3	1,602.6	0.00	0.00	0.00
7,800.0	90.23	91.27	6,107.1	921.9	1,556.2	1,700.4	0.00	0.00	0.00
7,900.0	90.23	91.27	6,106.7	919.6	1,656.2	1,798.2	0.00	0.00	0.00
8,000.0	90.23	91.27	6,106.3	917.4	1,756.2	1,896.0	0.00	0.00	0.00
8,100.0	90.23	91.27	6,105.9	915.2	1,856.2	1,993.9	0.00	0.00	0.00
8,200.0	90.23	91.27	6,105.5	913.0	1,956.1	2,091.7	0.00	0.00	0.00
8,300.0	90.23	91.27	6,105.1	910.8	2,056.1	2,189.5	0.00	0.00	0.00
8,400.0	90.23	91.27	6,104.7	908.6	2,156.1	2,287.3	0.00	0.00	0.00
8,500.0	90.23	91.27	6,104.3	906.4	2,256.0	2,385.2	0.00	0.00	0.00

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## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Hawkins 6-61-21-3340BH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 4688.0ft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB @ 4688.0ft (Original Well Elev)
<b>Site:</b>	Hawkins 5-61-21 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Hawkins 6-61-21-3340BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
8,600.0	90.23	91.27	6,103.9	904.1	2,356.0	2,483.0	0.00	0.00	0.00	
8,700.0	90.23	91.27	6,103.5	901.9	2,456.0	2,580.8	0.00	0.00	0.00	
8,800.0	90.23	91.27	6,103.1	899.7	2,556.0	2,678.6	0.00	0.00	0.00	
8,900.0	90.23	91.27	6,102.7	897.5	2,655.9	2,776.4	0.00	0.00	0.00	
9,000.0	90.23	91.27	6,102.3	895.3	2,755.9	2,874.3	0.00	0.00	0.00	
9,100.0	90.23	91.27	6,101.9	893.1	2,855.9	2,972.1	0.00	0.00	0.00	
9,200.0	90.23	91.27	6,101.5	890.8	2,955.9	3,069.9	0.00	0.00	0.00	
9,300.0	90.23	91.27	6,101.1	888.6	3,055.8	3,167.7	0.00	0.00	0.00	
9,400.0	90.23	91.27	6,100.7	886.4	3,155.8	3,265.6	0.00	0.00	0.00	
9,500.0	90.23	91.27	6,100.3	884.2	3,255.8	3,363.4	0.00	0.00	0.00	
9,600.0	90.23	91.27	6,099.9	882.0	3,355.8	3,461.2	0.00	0.00	0.00	
9,700.0	90.23	91.27	6,099.5	879.8	3,455.7	3,559.0	0.00	0.00	0.00	
9,800.0	90.23	91.27	6,099.1	877.6	3,555.7	3,656.9	0.00	0.00	0.00	
9,900.0	90.23	91.27	6,098.7	875.3	3,655.7	3,754.7	0.00	0.00	0.00	
10,000.0	90.23	91.27	6,098.3	873.1	3,755.7	3,852.5	0.00	0.00	0.00	
10,100.0	90.23	91.27	6,097.9	870.9	3,855.6	3,950.3	0.00	0.00	0.00	
10,200.0	90.23	91.27	6,097.5	868.7	3,955.6	4,048.1	0.00	0.00	0.00	
10,300.0	90.23	91.27	6,097.1	866.5	4,055.6	4,146.0	0.00	0.00	0.00	
10,400.0	90.23	91.27	6,096.7	864.3	4,155.6	4,243.8	0.00	0.00	0.00	
10,500.0	90.23	91.27	6,096.3	862.1	4,255.5	4,341.6	0.00	0.00	0.00	
10,600.0	90.23	91.27	6,095.9	859.8	4,355.5	4,439.4	0.00	0.00	0.00	
10,700.0	90.23	91.27	6,095.5	857.6	4,455.5	4,537.3	0.00	0.00	0.00	
10,771.9	90.23	91.27	6,095.2	856.0	4,527.3	4,607.6	0.00	0.00	0.00	
<b>Hawkins 3340BH PBHL</b>										
10,772.2	90.23	91.27	6,095.2	856.0	4,527.6	4,607.9	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
6,595.0	6,111.9	7" Csg	7	8-3/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
647.0	647.0	Pierre		-0.23	91.27	
4,023.2	3,892.0	Sussex		-0.23	91.27	
4,680.8	4,533.0	Shannon		-0.23	91.27	
6,068.3	5,892.0	Sharon Springs		-0.23	91.27	
6,216.5	5,996.0	Niobrara		-0.23	91.27	
6,504.8	6,107.0	Top B2 Target		-0.23	91.27	
	6,122.0	Base B2 Target		-0.23	91.27	