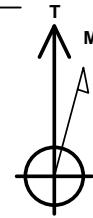


BILL BARRETT CORP  
STATE OF COLORADO 1S-66-36 0108 BH  
Weld County, CO

Geodetic System: US State Plane 1983  
Zone: Colorado Northern Zone  
WELL @ 5200.0usft (Original Well Elev)  
Ground Level: 5180.0  
Latitude: 39° 55' 30.112 N  
Longitude: 104° 43' 56.690 W  
Magnetic North is 8.49° East of True North (Magnetic Declination)



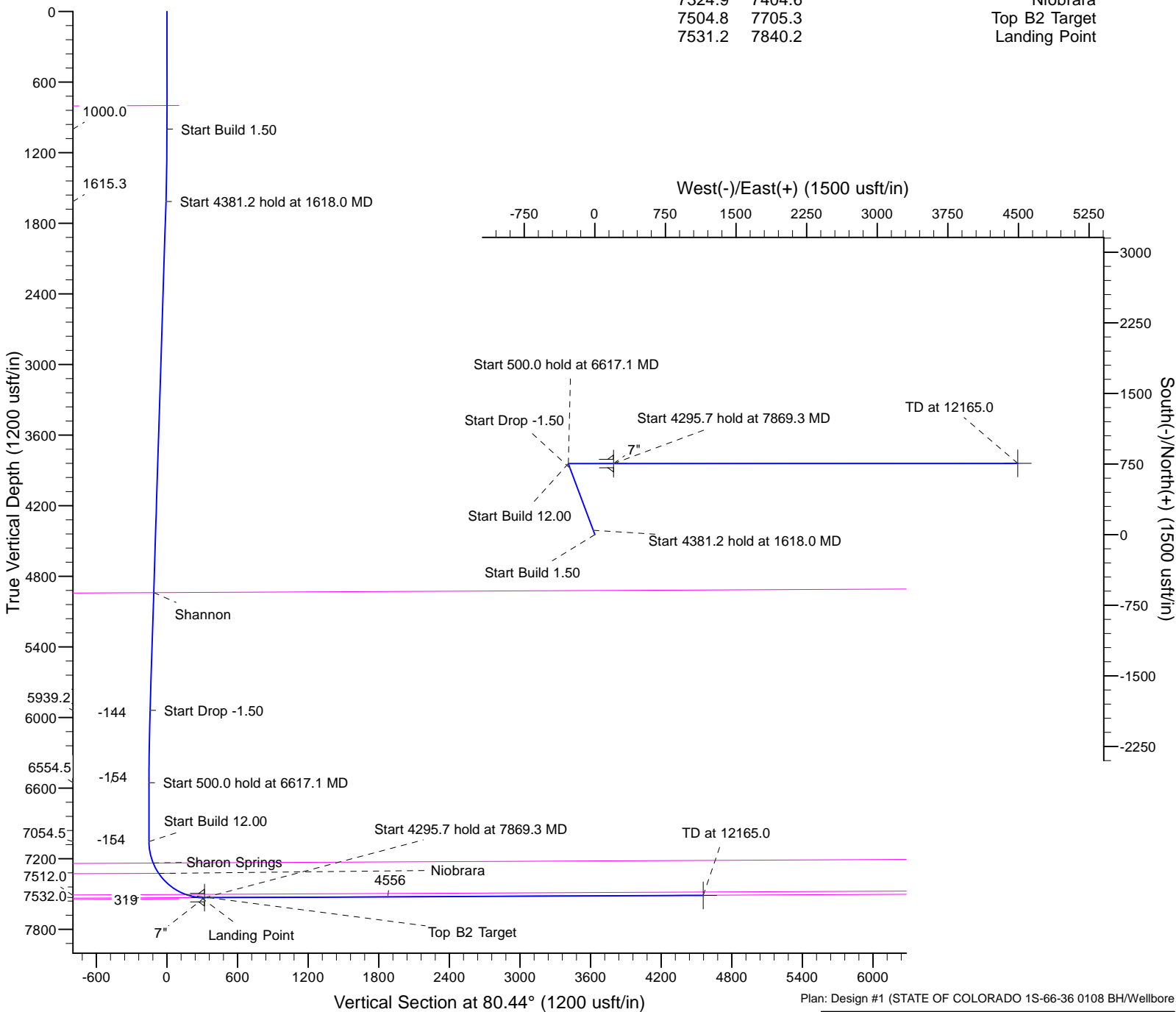
Azimuths to True North  
Magnetic North: 8.49°

Magnetic Field  
Strength: 52636.0snT  
Dip Angle: 66.59°  
Date: 10/15/2013  
Model: IGRF2010

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0
1618.0	9.27	339.45	1615.3	46.7	-17.5	1.50	339.45	-9.5
5999.1	9.27	339.45	5939.2	707.5	-265.3	0.00	0.00	-144.1
6617.1	0.00	0.00	6554.5	754.2	-282.8	1.50	180.00	-153.6
7117.1	0.00	0.00	7054.5	754.2	-282.8	0.00	0.00	-153.6
7869.3	90.27	89.97	7532.0	754.4	196.9	12.00	89.97	319.4
12165.0	90.27	89.97	7512.0	756.5	4492.5	0.00	0.00	4555.7

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
800.0	800.0	Base Fox Hills
4939.0	4985.6	Shannon
7237.2	7304.5	Sharon Springs
7324.9	7404.6	Niobrara
7504.8	7705.3	Top B2 Target
7531.2	7840.2	Landing Point



Plan: Design #1 (STATE OF COLORADO 1S-66-36 0108 BH/Wellbore #

Created By: Mike Kirby Date: 13:38, October 15 2013  
Checked: Date:   
Reviewed: Date:   
Approved: x Date: x

## Planning Report

<b>Database:</b>	Rocky Mountain R5000 Database	<b>Local Co-ordinate Reference:</b>	Well STATE OF COLORADO 1S-66-36 0108 BH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5200.0usft (Original Well Elev)
<b>Project:</b>	Weld County, CO	<b>MD Reference:</b>	WELL @ 5200.0usft (Original Well Elev)
<b>Site:</b>	State of Colorado 1S-66-36 Pad	<b>North Reference:</b>	True
<b>Well:</b>	STATE OF COLORADO 1S-66-36 0108 BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	Weld County, CO		
<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		

<b>Site</b>	State of Colorado 1S-66-36 Pad			
<b>Site Position:</b>		<b>Northing:</b>	1,216,469.41 usft	<b>Latitude:</b> 39° 55' 30.112 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,215,275.68 usft	<b>Longitude:</b> 104° 43' 56.690 W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b> 0.50 °

<b>Well</b>	STATE OF COLORADO 1S-66-36 0108 BH			
<b>Well Position</b>	<b>+N/-S</b>	134.9 usft	<b>Northing:</b>	1,216,604.30 usft
	<b>+E/-W</b>	0.5 usft	<b>Easting:</b>	3,215,275.00 usft
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	<b>Ground Level:</b> 5,180.0 usft

<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	10/15/2013	8.49	66.59	52,636

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	80.44

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	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	
1,618.0	9.27	339.45	1,615.3	46.7	-17.5	1.50	1.50	0.00	339.45	
5,999.1	9.27	339.45	5,939.2	707.5	-265.3	0.00	0.00	0.00	0.00	
6,617.1	0.00	0.00	6,554.5	754.2	-282.8	1.50	-1.50	0.00	180.00	
7,117.1	0.00	0.00	7,054.5	754.2	-282.8	0.00	0.00	0.00	0.00	
7,869.3	90.27	89.97	7,532.0	754.4	196.9	12.00	12.00	0.00	89.97	
12,165.0	90.27	89.97	7,512.0	756.5	4,492.5	0.00	0.00	0.00	0.00	

# Planning Report

<b>Database:</b>	Rocky Mountain R5000 Database	<b>Local Co-ordinate Reference:</b>	Well STATE OF COLORADO 1S-66-36 0108 BH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5200.0usft (Original Well Elev)
<b>Project:</b>	Weld County, CO	<b>MD Reference:</b>	WELL @ 5200.0usft (Original Well Elev)
<b>Site:</b>	State of Colorado 1S-66-36 Pad	<b>North Reference:</b>	True
<b>Well:</b>	STATE OF COLORADO 1S-66-36 0108 BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
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	
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	
Base Fox Hills										
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	339.45	1,100.0	1.2	-0.5	-0.2	1.50	1.50	0.00	
1,200.0	3.00	339.45	1,199.9	4.9	-1.8	-1.0	1.50	1.50	0.00	
1,300.0	4.50	339.45	1,299.7	11.0	-4.1	-2.2	1.50	1.50	0.00	
1,400.0	6.00	339.45	1,399.3	19.6	-7.3	-4.0	1.50	1.50	0.00	
1,500.0	7.50	339.45	1,498.6	30.6	-11.5	-6.2	1.50	1.50	0.00	
1,600.0	9.00	339.45	1,597.5	44.0	-16.5	-9.0	1.50	1.50	0.00	
1,618.0	9.27	339.45	1,615.3	46.7	-17.5	-9.5	1.50	1.50	0.00	
1,700.0	9.27	339.45	1,696.2	59.1	-22.2	-12.0	0.00	0.00	0.00	
1,800.0	9.27	339.45	1,794.9	74.2	-27.8	-15.1	0.00	0.00	0.00	
1,900.0	9.27	339.45	1,893.6	89.2	-33.5	-18.2	0.00	0.00	0.00	
2,000.0	9.27	339.45	1,992.3	104.3	-39.1	-21.3	0.00	0.00	0.00	
2,100.0	9.27	339.45	2,091.0	119.4	-44.8	-24.3	0.00	0.00	0.00	
2,200.0	9.27	339.45	2,189.7	134.5	-50.4	-27.4	0.00	0.00	0.00	
2,300.0	9.27	339.45	2,288.4	149.6	-56.1	-30.5	0.00	0.00	0.00	
2,400.0	9.27	339.45	2,387.1	164.7	-61.7	-33.5	0.00	0.00	0.00	
2,500.0	9.27	339.45	2,485.8	179.7	-67.4	-36.6	0.00	0.00	0.00	
2,600.0	9.27	339.45	2,584.5	194.8	-73.1	-39.7	0.00	0.00	0.00	
2,700.0	9.27	339.45	2,683.2	209.9	-78.7	-42.8	0.00	0.00	0.00	
2,800.0	9.27	339.45	2,781.9	225.0	-84.4	-45.8	0.00	0.00	0.00	
2,900.0	9.27	339.45	2,880.6	240.1	-90.0	-48.9	0.00	0.00	0.00	
3,000.0	9.27	339.45	2,979.3	255.2	-95.7	-52.0	0.00	0.00	0.00	
3,100.0	9.27	339.45	3,078.0	270.2	-101.3	-55.1	0.00	0.00	0.00	
3,200.0	9.27	339.45	3,176.6	285.3	-107.0	-58.1	0.00	0.00	0.00	
3,300.0	9.27	339.45	3,275.3	300.4	-112.6	-61.2	0.00	0.00	0.00	
3,400.0	9.27	339.45	3,374.0	315.5	-118.3	-64.3	0.00	0.00	0.00	
3,500.0	9.27	339.45	3,472.7	330.6	-124.0	-67.3	0.00	0.00	0.00	
3,600.0	9.27	339.45	3,571.4	345.6	-129.6	-70.4	0.00	0.00	0.00	
3,700.0	9.27	339.45	3,670.1	360.7	-135.3	-73.5	0.00	0.00	0.00	
3,800.0	9.27	339.45	3,768.8	375.8	-140.9	-76.6	0.00	0.00	0.00	
3,900.0	9.27	339.45	3,867.5	390.9	-146.6	-79.6	0.00	0.00	0.00	
4,000.0	9.27	339.45	3,966.2	406.0	-152.2	-82.7	0.00	0.00	0.00	
4,100.0	9.27	339.45	4,064.9	421.1	-157.9	-85.8	0.00	0.00	0.00	
4,200.0	9.27	339.45	4,163.6	436.1	-163.5	-88.8	0.00	0.00	0.00	
4,300.0	9.27	339.45	4,262.3	451.2	-169.2	-91.9	0.00	0.00	0.00	
4,400.0	9.27	339.45	4,361.0	466.3	-174.8	-95.0	0.00	0.00	0.00	
4,500.0	9.27	339.45	4,459.7	481.4	-180.5	-98.1	0.00	0.00	0.00	
4,600.0	9.27	339.45	4,558.4	496.5	-186.2	-101.1	0.00	0.00	0.00	
4,700.0	9.27	339.45	4,657.1	511.6	-191.8	-104.2	0.00	0.00	0.00	
4,800.0	9.27	339.45	4,755.8	526.6	-197.5	-107.3	0.00	0.00	0.00	
4,900.0	9.27	339.45	4,854.4	541.7	-203.1	-110.4	0.00	0.00	0.00	
4,985.6	9.27	339.45	4,939.0	554.6	-208.0	-113.0	0.00	0.00	0.00	

# Planning Report

<b>Database:</b>	Rocky Mountain R5000 Database	<b>Local Co-ordinate Reference:</b>	Well STATE OF COLORADO 1S-66-36 0108 BH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5200.0usft (Original Well Elev)
<b>Project:</b>	Weld County, CO	<b>MD Reference:</b>	WELL @ 5200.0usft (Original Well Elev)
<b>Site:</b>	State of Colorado 1S-66-36 Pad	<b>North Reference:</b>	True
<b>Well:</b>	STATE OF COLORADO 1S-66-36 0108 BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>Shannon</b>									
5,000.0	9.27	339.45	4,953.1	556.8	-208.8	-113.4	0.00	0.00	0.00
5,100.0	9.27	339.45	5,051.8	571.9	-214.4	-116.5	0.00	0.00	0.00
5,200.0	9.27	339.45	5,150.5	587.0	-220.1	-119.6	0.00	0.00	0.00
5,300.0	9.27	339.45	5,249.2	602.0	-225.7	-122.6	0.00	0.00	0.00
5,400.0	9.27	339.45	5,347.9	617.1	-231.4	-125.7	0.00	0.00	0.00
5,500.0	9.27	339.45	5,446.6	632.2	-237.1	-128.8	0.00	0.00	0.00
5,600.0	9.27	339.45	5,545.3	647.3	-242.7	-131.9	0.00	0.00	0.00
5,700.0	9.27	339.45	5,644.0	662.4	-248.4	-134.9	0.00	0.00	0.00
5,800.0	9.27	339.45	5,742.7	677.5	-254.0	-138.0	0.00	0.00	0.00
5,900.0	9.27	339.45	5,841.4	692.5	-259.7	-141.1	0.00	0.00	0.00
5,999.1	9.27	339.45	5,939.2	707.5	-265.3	-144.1	0.00	0.00	0.00
6,000.0	9.26	339.45	5,940.1	707.6	-265.3	-144.2	1.50	-1.50	0.00
6,100.0	7.76	339.45	6,039.0	721.5	-270.5	-147.0	1.50	-1.50	0.00
6,200.0	6.26	339.45	6,138.2	732.9	-274.8	-149.3	1.50	-1.50	0.00
6,300.0	4.76	339.45	6,237.8	741.9	-278.2	-151.1	1.50	-1.50	0.00
6,400.0	3.26	339.45	6,337.5	748.4	-280.6	-152.5	1.50	-1.50	0.00
6,500.0	1.76	339.45	6,437.4	752.5	-282.2	-153.3	1.50	-1.50	0.00
6,600.0	0.26	339.45	6,537.4	754.2	-282.8	-153.6	1.50	-1.50	0.00
6,617.1	0.00	0.00	6,554.5	754.2	-282.8	-153.6	1.50	-1.50	0.00
6,700.0	0.00	0.00	6,637.4	754.2	-282.8	-153.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,737.4	754.2	-282.8	-153.6	0.00	0.00	0.00
6,900.0	0.00	0.00	6,837.4	754.2	-282.8	-153.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,937.4	754.2	-282.8	-153.6	0.00	0.00	0.00
7,100.0	0.00	0.00	7,037.4	754.2	-282.8	-153.6	0.00	0.00	0.00
7,117.1	0.00	0.00	7,054.5	754.2	-282.8	-153.6	0.00	0.00	0.00
7,200.0	9.95	89.97	7,137.0	754.2	-275.6	-146.6	12.00	12.00	0.00
7,300.0	21.95	89.97	7,233.0	754.2	-248.2	-119.5	12.00	12.00	0.00
7,304.5	22.49	89.97	7,237.2	754.2	-246.5	-117.8	12.00	12.00	0.00
<b>Sharon Springs</b>									
7,400.0	33.95	89.97	7,321.1	754.2	-201.4	-73.4	12.00	12.00	0.00
7,404.6	34.50	89.97	7,324.9	754.2	-198.8	-70.8	12.00	12.00	0.00
<b>Niobrara</b>									
7,500.0	45.95	89.97	7,397.7	754.3	-137.3	-10.2	12.00	12.00	0.00
7,600.0	57.95	89.97	7,459.2	754.3	-58.7	67.3	12.00	12.00	0.00
7,700.0	69.95	89.97	7,503.0	754.3	31.0	155.8	12.00	12.00	0.00
7,705.3	70.59	89.97	7,504.8	754.4	36.0	160.7	12.00	12.00	0.00
<b>Top B2 Target</b>									
7,800.0	81.95	89.97	7,527.3	754.4	127.8	251.3	12.00	12.00	0.00
7,840.2	86.77	89.97	7,531.2	754.4	167.8	290.7	12.00	12.00	0.00
<b>Landing Point</b>									
7,869.3	90.26	89.97	7,532.0	754.4	196.9	319.4	12.00	12.00	0.00
<b>7"</b>									
7,900.0	90.27	89.97	7,531.8	754.4	227.6	349.7	0.01	0.01	0.00
8,000.0	90.27	89.97	7,531.4	754.5	327.6	448.3	0.00	0.00	0.00
8,100.0	90.27	89.97	7,530.9	754.5	427.6	546.9	0.00	0.00	0.00
8,200.0	90.27	89.97	7,530.4	754.6	527.6	645.5	0.00	0.00	0.00
8,300.0	90.27	89.97	7,530.0	754.6	627.6	744.2	0.00	0.00	0.00
8,400.0	90.27	89.97	7,529.5	754.7	727.6	842.8	0.00	0.00	0.00
8,500.0	90.27	89.97	7,529.0	754.7	827.6	941.4	0.00	0.00	0.00
8,600.0	90.27	89.97	7,528.6	754.8	927.6	1,040.0	0.00	0.00	0.00
8,700.0	90.27	89.97	7,528.1	754.8	1,027.6	1,138.6	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	Rocky Mountain R5000 Database	<b>Local Co-ordinate Reference:</b>	Well STATE OF COLORADO 1S-66-36 0108 BH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5200.0usft (Original Well Elev)
<b>Project:</b>	Weld County, CO	<b>MD Reference:</b>	WELL @ 5200.0usft (Original Well Elev)
<b>Site:</b>	State of Colorado 1S-66-36 Pad	<b>North Reference:</b>	True
<b>Well:</b>	STATE OF COLORADO 1S-66-36 0108 BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,800.0	90.27	89.97	7,527.6	754.9	1,127.6	1,237.2	0.00	0.00	0.00	
8,900.0	90.27	89.97	7,527.2	754.9	1,227.6	1,335.9	0.00	0.00	0.00	
9,000.0	90.27	89.97	7,526.7	755.0	1,327.6	1,434.5	0.00	0.00	0.00	
9,100.0	90.27	89.97	7,526.2	755.0	1,427.6	1,533.1	0.00	0.00	0.00	
9,200.0	90.27	89.97	7,525.8	755.1	1,527.6	1,631.7	0.00	0.00	0.00	
9,300.0	90.27	89.97	7,525.3	755.1	1,627.6	1,730.3	0.00	0.00	0.00	
9,400.0	90.27	89.97	7,524.9	755.1	1,727.6	1,829.0	0.00	0.00	0.00	
9,500.0	90.27	89.97	7,524.4	755.2	1,827.6	1,927.6	0.00	0.00	0.00	
9,600.0	90.27	89.97	7,523.9	755.2	1,927.5	2,026.2	0.00	0.00	0.00	
9,700.0	90.27	89.97	7,523.5	755.3	2,027.5	2,124.8	0.00	0.00	0.00	
9,800.0	90.27	89.97	7,523.0	755.3	2,127.5	2,223.4	0.00	0.00	0.00	
9,900.0	90.27	89.97	7,522.5	755.4	2,227.5	2,322.1	0.00	0.00	0.00	
10,000.0	90.27	89.97	7,522.1	755.4	2,327.5	2,420.7	0.00	0.00	0.00	
10,100.0	90.27	89.97	7,521.6	755.5	2,427.5	2,519.3	0.00	0.00	0.00	
10,200.0	90.27	89.97	7,521.1	755.5	2,527.5	2,617.9	0.00	0.00	0.00	
10,300.0	90.27	89.97	7,520.7	755.6	2,627.5	2,716.5	0.00	0.00	0.00	
10,400.0	90.27	89.97	7,520.2	755.6	2,727.5	2,815.1	0.00	0.00	0.00	
10,500.0	90.27	89.97	7,519.7	755.7	2,827.5	2,913.8	0.00	0.00	0.00	
10,600.0	90.27	89.97	7,519.3	755.7	2,927.5	3,012.4	0.00	0.00	0.00	
10,700.0	90.27	89.97	7,518.8	755.8	3,027.5	3,111.0	0.00	0.00	0.00	
10,800.0	90.27	89.97	7,518.4	755.8	3,127.5	3,209.6	0.00	0.00	0.00	
10,900.0	90.27	89.97	7,517.9	755.9	3,227.5	3,308.2	0.00	0.00	0.00	
11,000.0	90.27	89.97	7,517.4	755.9	3,327.5	3,406.9	0.00	0.00	0.00	
11,100.0	90.27	89.97	7,517.0	755.9	3,427.5	3,505.5	0.00	0.00	0.00	
11,200.0	90.27	89.97	7,516.5	756.0	3,527.5	3,604.1	0.00	0.00	0.00	
11,300.0	90.27	89.97	7,516.0	756.0	3,627.5	3,702.7	0.00	0.00	0.00	
11,400.0	90.27	89.97	7,515.6	756.1	3,727.5	3,801.3	0.00	0.00	0.00	
11,500.0	90.27	89.97	7,515.1	756.1	3,827.5	3,899.9	0.00	0.00	0.00	
11,600.0	90.27	89.97	7,514.6	756.2	3,927.5	3,998.6	0.00	0.00	0.00	
11,700.0	90.27	89.97	7,514.2	756.2	4,027.5	4,097.2	0.00	0.00	0.00	
11,800.0	90.27	89.97	7,513.7	756.3	4,127.5	4,195.8	0.00	0.00	0.00	
11,900.0	90.27	89.97	7,513.2	756.3	4,227.5	4,294.4	0.00	0.00	0.00	
12,000.0	90.27	89.97	7,512.8	756.4	4,327.5	4,393.0	0.00	0.00	0.00	
12,100.0	90.27	89.97	7,512.3	756.4	4,427.5	4,491.7	0.00	0.00	0.00	
12,165.0	90.27	89.97	7,512.0	756.5	4,492.5	4,555.7	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SOC0108BH PBHL - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,512.0	756.5	4,492.5	1,217,399.64	3,219,760.79	39° 55' 38.917 N	104° 42' 59.016 W
SOC 0108BH LP - plan misses target center by 0.1usft at 7869.3usft MD (7532.0 TVD, 754.4 N, 196.9 E) - Point	0.00	0.00	7,532.0	754.4	196.9	1,217,360.36	3,215,465.33	39° 55' 38.900 N	104° 43' 54.157 W

## Planning Report

<b>Database:</b>	Rocky Mountain R5000 Database	<b>Local Co-ordinate Reference:</b>	Well STATE OF COLORADO 1S-66-36 0108 BH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5200.0usft (Original Well Elev)
<b>Project:</b>	Weld County, CO	<b>MD Reference:</b>	WELL @ 5200.0usft (Original Well Elev)
<b>Site:</b>	State of Colorado 1S-66-36 Pad	<b>North Reference:</b>	True
<b>Well:</b>	STATE OF COLORADO 1S-66-36 0108 BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
7,869.3	7,532.0	7"	7	8-3/4	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
800.0	800.0	Base Fox Hills		-0.27	89.97	
4,985.6	4,939.0	Shannon		-0.27	89.97	
7,304.5	7,237.2	Sharon Springs		-0.27	89.97	
7,404.6	7,324.9	Niobrara		-0.27	89.97	
7,705.3	7,504.8	Top B2 Target		-0.27	89.97	
7,840.2	7,531.2	Landing Point		-0.27	89.97	