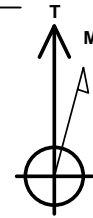


**BILL BARRETT CORP**  
**STATE OF COLORADO 1S-66-36 6457 CH**  
**Adams County, CO**

**Geodetic System: US State Plane 1983**  
**Zone: Colorado Northern Zone**  
**WELL @ 5245.0usft (Original Well Elev)**  
**Ground Level: 5225.0**  
**Latitude: 39° 55' 0.903 N**  
**Longitude: 104° 43' 56.852 W**

**Magnetic North is 8.49° East of True North (Magnetic Declination)**



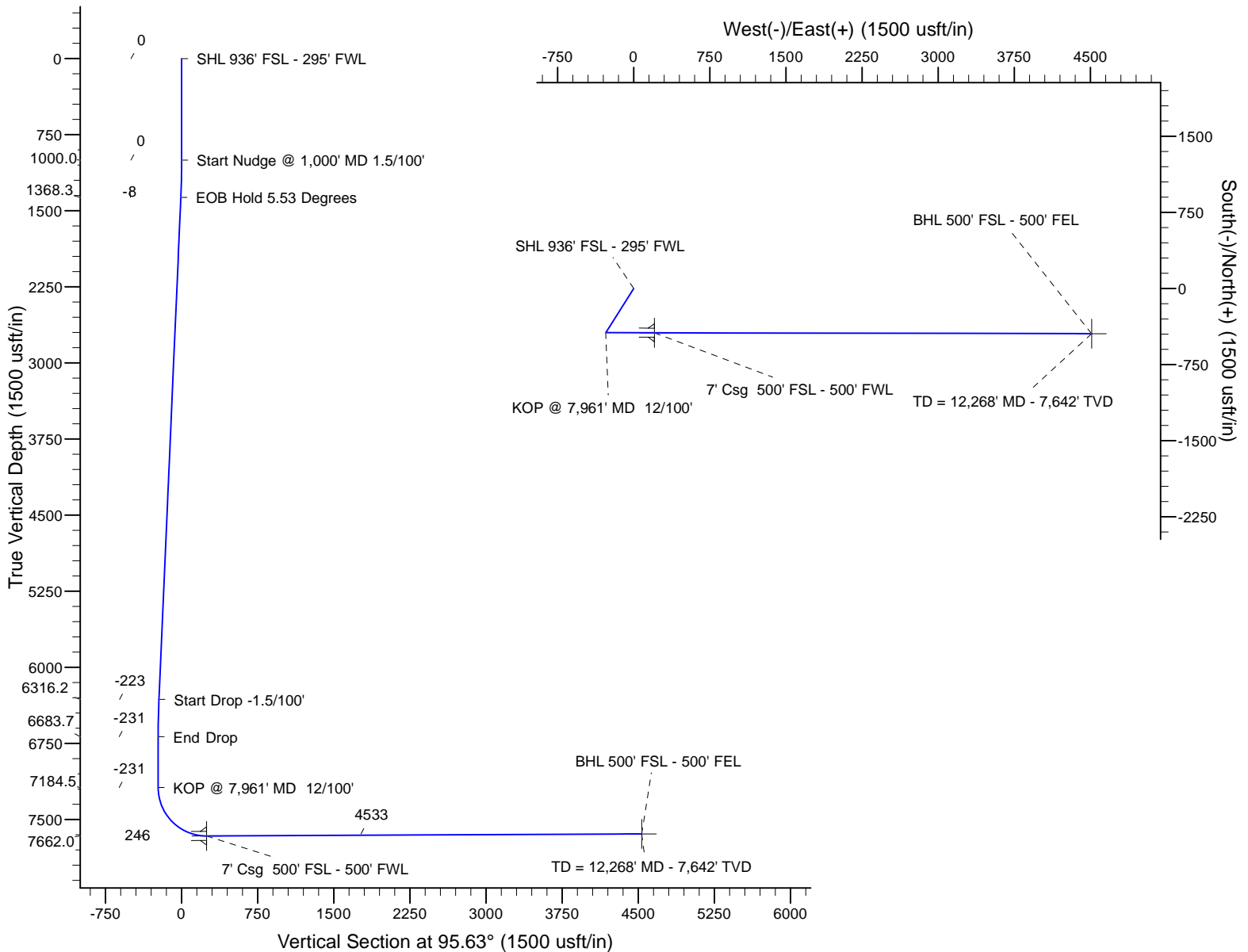
Azimuths to True North  
Magnetic North: 8.49°

Magnetic Field  
Strength: 52627.4snT  
Dip Angle: 66.58°  
Date: 10/28/2013  
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
1368.9	5.53	212.33	1368.3	-15.0	-9.5	1.50	212.33	-8.0
6339.9	5.53	212.33	6316.2	-420.1	-265.9	0.00	0.00	-223.4
6708.8	0.00	0.00	6684.5	-435.1	-275.4	1.50	180.00	-231.4
7208.8	0.00	0.00	7184.5	-435.1	-275.4	0.00	0.00	-231.4
7961.0	90.26	90.11	7662.0	-436.1	204.3	12.00	90.11	246.1
12268.4	90.26	90.11	7642.0	-444.6	4511.6	0.00	0.00	4533.5

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
845.0	845.0	Base Fox Hills
5006.9	5024.5	Shannon
7305.2	7330.8	Sharon Springs
7393.0	7424.6	Niobrara
7650.6	7854.2	Top C Target
7661.2	7931.8	Landing Point



Plan: Design #1 (STATE OF COLORADO 1S-66-36 6457 CH/Wellbore #

Created By: Mike Kirby	Date: 10:45, October 28 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 6457 CH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5245.0usft (Original Well Elev)
<b>Project:</b>	Adams County, CO	<b>MD Reference:</b>	WELL @ 5245.0usft (Original Well Elev)
<b>Site:</b>	State of Coloardo 36-1S-66W South Pad	<b>North Reference:</b>	True
<b>Well:</b>	STATE OF COLORADO 1S-66-36 6457 CH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	Adams 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		

Site		State of Coloardo 36-1S-66W South Pad			
Site Position:		Northing:	1,213,513.90 usft	Latitude:	39° 55' 0.903 N
From:	Map	Easting:	3,215,288.70 usft	Longitude:	104° 43' 56.852 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well	STATE OF COLORADO 1S-66-36 6457 CH					
Well Position	+N/-S	0.0 usft	Northing:	1,213,513.90 usft	Latitude:	39° 55' 0.903 N
	+E/-W	0.0 usft	Easting:	3,215,288.70 usft	Longitude:	104° 43' 56.852 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	5,245.0 usft	Ground Level:	5,225.0 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	10/28/2013	8.49	66.58	52,627

<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	95.63

<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	
1,368.9	5.53	212.33	1,368.3	-15.0	-9.5	1.50	1.50	0.00	212.33	
6,339.9	5.53	212.33	6,316.2	-420.1	-265.9	0.00	0.00	0.00	0.00	
6,708.8	0.00	0.00	6,684.5	-435.1	-275.4	1.50	-1.50	0.00	180.00	
7,208.8	0.00	0.00	7,184.5	-435.1	-275.4	0.00	0.00	0.00	0.00	
7,961.0	90.27	90.11	7,662.0	-436.1	204.3	12.00	12.00	0.00	90.11	
12,268.4	90.27	90.11	7,642.0	-444.6	4,511.6	0.00	0.00	0.00	0.00	SOC 1S-66-36 6457 (

# Planning Report

<b>Database:</b>	Rocky Mountain R5000 Database	<b>Local Co-ordinate Reference:</b>	Well STATE OF COLORADO 1S-66-36 6457 CH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5245.0usft (Original Well Elev)
<b>Project:</b>	Adams County, CO	<b>MD Reference:</b>	WELL @ 5245.0usft (Original Well Elev)
<b>Site:</b>	State of Colorado 36-1S-66W South Pad	<b>North Reference:</b>	True
<b>Well:</b>	STATE OF COLORADO 1S-66-36 6457 CH	<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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>SHL 936' FSL - 295' FWL</b>									
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
845.0	0.00	0.00	845.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Base Fox Hills</b>									
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
<b>Start Nudge @ 1,000' MD 1.5/100'</b>									
1,100.0	1.50	212.33	1,100.0	-1.1	-0.7	-0.6	1.50	1.50	0.00
1,200.0	3.00	212.33	1,199.9	-4.4	-2.8	-2.4	1.50	1.50	0.00
1,300.0	4.50	212.33	1,299.7	-9.9	-6.3	-5.3	1.50	1.50	0.00
1,368.9	5.53	212.33	1,368.3	-15.0	-9.5	-8.0	1.50	1.50	0.00
<b>EOB Hold 5.53 Degrees</b>									
1,400.0	5.53	212.33	1,399.3	-17.6	-11.1	-9.3	0.00	0.00	0.00
1,500.0	5.53	212.33	1,498.8	-25.7	-16.3	-13.7	0.00	0.00	0.00
1,600.0	5.53	212.33	1,598.3	-33.9	-21.4	-18.0	0.00	0.00	0.00
1,700.0	5.53	212.33	1,697.9	-42.0	-26.6	-22.3	0.00	0.00	0.00
1,800.0	5.53	212.33	1,797.4	-50.2	-31.8	-26.7	0.00	0.00	0.00
1,900.0	5.53	212.33	1,897.0	-58.3	-36.9	-31.0	0.00	0.00	0.00
2,000.0	5.53	212.33	1,996.5	-66.5	-42.1	-35.3	0.00	0.00	0.00
2,100.0	5.53	212.33	2,096.0	-74.6	-47.2	-39.7	0.00	0.00	0.00
2,200.0	5.53	212.33	2,195.6	-82.8	-52.4	-44.0	0.00	0.00	0.00
2,300.0	5.53	212.33	2,295.1	-90.9	-57.5	-48.3	0.00	0.00	0.00
2,400.0	5.53	212.33	2,394.6	-99.1	-62.7	-52.7	0.00	0.00	0.00
2,500.0	5.53	212.33	2,494.2	-107.2	-67.9	-57.0	0.00	0.00	0.00
2,600.0	5.53	212.33	2,593.7	-115.3	-73.0	-61.3	0.00	0.00	0.00
2,700.0	5.53	212.33	2,693.2	-123.5	-78.2	-65.7	0.00	0.00	0.00
2,800.0	5.53	212.33	2,792.8	-131.6	-83.3	-70.0	0.00	0.00	0.00
2,900.0	5.53	212.33	2,892.3	-139.8	-88.5	-74.3	0.00	0.00	0.00
3,000.0	5.53	212.33	2,991.8	-147.9	-93.6	-78.7	0.00	0.00	0.00
3,100.0	5.53	212.33	3,091.4	-156.1	-98.8	-83.0	0.00	0.00	0.00
3,200.0	5.53	212.33	3,190.9	-164.2	-104.0	-87.3	0.00	0.00	0.00
3,300.0	5.53	212.33	3,290.4	-172.4	-109.1	-91.7	0.00	0.00	0.00
3,400.0	5.53	212.33	3,390.0	-180.5	-114.3	-96.0	0.00	0.00	0.00
3,500.0	5.53	212.33	3,489.5	-188.7	-119.4	-100.3	0.00	0.00	0.00
3,600.0	5.53	212.33	3,589.0	-196.8	-124.6	-104.7	0.00	0.00	0.00
3,700.0	5.53	212.33	3,688.6	-205.0	-129.7	-109.0	0.00	0.00	0.00
3,800.0	5.53	212.33	3,788.1	-213.1	-134.9	-113.3	0.00	0.00	0.00
3,900.0	5.53	212.33	3,887.6	-221.3	-140.1	-117.7	0.00	0.00	0.00
4,000.0	5.53	212.33	3,987.2	-229.4	-145.2	-122.0	0.00	0.00	0.00
4,100.0	5.53	212.33	4,086.7	-237.6	-150.4	-126.3	0.00	0.00	0.00
4,200.0	5.53	212.33	4,186.2	-245.7	-155.5	-130.7	0.00	0.00	0.00
4,300.0	5.53	212.33	4,285.8	-253.9	-160.7	-135.0	0.00	0.00	0.00
4,400.0	5.53	212.33	4,385.3	-262.0	-165.8	-139.3	0.00	0.00	0.00
4,500.0	5.53	212.33	4,484.8	-270.2	-171.0	-143.7	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 6457 CH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5245.0usft (Original Well Elev)
<b>Project:</b>	Adams County, CO	<b>MD Reference:</b>	WELL @ 5245.0usft (Original Well Elev)
<b>Site:</b>	State of Coloardo 36-1S-66W South Pad	<b>North Reference:</b>	True
<b>Well:</b>	STATE OF COLORADO 1S-66-36 6457 CH	<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)
4,600.0	5.53	212.33	4,584.4	-278.3	-176.2	-148.0	0.00	0.00	0.00
4,700.0	5.53	212.33	4,683.9	-286.4	-181.3	-152.3	0.00	0.00	0.00
4,800.0	5.53	212.33	4,783.4	-294.6	-186.5	-156.7	0.00	0.00	0.00
4,900.0	5.53	212.33	4,883.0	-302.7	-191.6	-161.0	0.00	0.00	0.00
5,000.0	5.53	212.33	4,982.5	-310.9	-196.8	-165.3	0.00	0.00	0.00
5,024.5	5.53	212.33	5,006.9	-312.9	-198.0	-166.4	0.00	0.00	0.00
Shannon									
5,100.0	5.53	212.33	5,082.0	-319.0	-201.9	-169.7	0.00	0.00	0.00
5,200.0	5.53	212.33	5,181.6	-327.2	-207.1	-174.0	0.00	0.00	0.00
5,300.0	5.53	212.33	5,281.1	-335.3	-212.3	-178.3	0.00	0.00	0.00
5,400.0	5.53	212.33	5,380.6	-343.5	-217.4	-182.7	0.00	0.00	0.00
5,500.0	5.53	212.33	5,480.2	-351.6	-222.6	-187.0	0.00	0.00	0.00
5,600.0	5.53	212.33	5,579.7	-359.8	-227.7	-191.3	0.00	0.00	0.00
5,700.0	5.53	212.33	5,679.2	-367.9	-232.9	-195.7	0.00	0.00	0.00
5,800.0	5.53	212.33	5,778.8	-376.1	-238.0	-200.0	0.00	0.00	0.00
5,900.0	5.53	212.33	5,878.3	-384.2	-243.2	-204.3	0.00	0.00	0.00
6,000.0	5.53	212.33	5,977.8	-392.4	-248.4	-208.7	0.00	0.00	0.00
6,100.0	5.53	212.33	6,077.4	-400.5	-253.5	-213.0	0.00	0.00	0.00
6,200.0	5.53	212.33	6,176.9	-408.7	-258.7	-217.3	0.00	0.00	0.00
6,300.0	5.53	212.33	6,276.4	-416.8	-263.8	-221.7	0.00	0.00	0.00
6,339.9	5.53	212.33	6,316.2	-420.1	-265.9	-223.4	0.00	0.00	0.00
Start Drop -1.5/100'									
6,400.0	4.63	212.33	6,376.0	-424.6	-268.7	-225.8	1.50	-1.50	0.00
6,500.0	3.13	212.33	6,475.8	-430.3	-272.3	-228.8	1.50	-1.50	0.00
6,600.0	1.63	212.33	6,575.7	-433.8	-274.6	-230.7	1.50	-1.50	0.00
6,700.0	0.13	212.33	6,675.7	-435.1	-275.4	-231.4	1.50	-1.50	0.00
6,708.0	0.01	212.33	6,683.7	-435.1	-275.4	-231.4	1.50	-1.50	0.00
End Drop									
6,708.8	0.00	0.00	6,684.5	-435.1	-275.4	-231.4	1.50	-1.50	0.00
6,800.0	0.00	0.00	6,775.7	-435.1	-275.4	-231.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,875.7	-435.1	-275.4	-231.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,975.7	-435.1	-275.4	-231.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,075.7	-435.1	-275.4	-231.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,175.7	-435.1	-275.4	-231.4	0.00	0.00	0.00
7,208.8	0.00	0.00	7,184.5	-435.1	-275.4	-231.4	0.00	0.00	0.00
KOP @ 7,961' MD 12/100'									
7,300.0	10.94	90.11	7,275.1	-435.1	-266.7	-222.8	12.00	12.00	0.00
7,330.8	14.64	90.11	7,305.2	-435.1	-259.9	-216.0	12.00	12.00	0.00
Sharon Springs									
7,400.0	22.94	90.11	7,370.6	-435.2	-237.6	-193.8	12.00	12.00	0.00
7,424.6	25.90	90.11	7,393.0	-435.2	-227.5	-183.7	12.00	12.00	0.00
Niobrara									
7,500.0	34.94	90.11	7,458.0	-435.3	-189.3	-145.7	12.00	12.00	0.00
7,600.0	46.94	90.11	7,533.4	-435.4	-123.9	-80.6	12.00	12.00	0.00
7,700.0	58.94	90.11	7,593.5	-435.6	-44.3	-1.3	12.00	12.00	0.00
7,800.0	70.94	90.11	7,635.8	-435.7	46.2	88.7	12.00	12.00	0.00
7,854.2	77.45	90.11	7,650.6	-435.8	98.3	140.6	12.00	12.00	0.00
Top C Target									
7,900.0	82.94	90.11	7,658.3	-435.9	143.4	185.5	12.00	12.00	0.00
7,931.8	86.76	90.11	7,661.2	-436.0	175.1	217.0	12.00	12.00	0.00
Landing Point									
7,961.0	90.26	90.11	7,662.0	-436.1	204.3	246.0	12.00	12.00	0.00

# Planning Report

<b>Database:</b>	Rocky Mountain R5000 Database	<b>Local Co-ordinate Reference:</b>	Well STATE OF COLORADO 1S-66-36 6457 CH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5245.0usft (Original Well Elev)
<b>Project:</b>	Adams County, CO	<b>MD Reference:</b>	WELL @ 5245.0usft (Original Well Elev)
<b>Site:</b>	State of Colorado 36-1S-66W South Pad	<b>North Reference:</b>	True
<b>Well:</b>	STATE OF COLORADO 1S-66-36 6457 CH	<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>7' Csg 500' FSL - 500' FWL - 7</b>										
8,000.0	90.27	90.11	7,661.8	-436.1	243.3	284.9	0.01	0.01	0.00	
8,100.0	90.27	90.11	7,661.3	-436.3	343.3	384.4	0.00	0.00	0.00	
8,200.0	90.27	90.11	7,660.9	-436.5	443.3	483.9	0.00	0.00	0.00	
8,300.0	90.27	90.11	7,660.4	-436.7	543.2	583.5	0.00	0.00	0.00	
8,400.0	90.27	90.11	7,659.9	-436.9	643.2	683.0	0.00	0.00	0.00	
8,500.0	90.27	90.11	7,659.5	-437.1	743.2	782.5	0.00	0.00	0.00	
8,600.0	90.27	90.11	7,659.0	-437.3	843.2	882.1	0.00	0.00	0.00	
8,700.0	90.27	90.11	7,658.5	-437.5	943.2	981.6	0.00	0.00	0.00	
8,800.0	90.27	90.11	7,658.1	-437.7	1,043.2	1,081.1	0.00	0.00	0.00	
8,900.0	90.27	90.11	7,657.6	-437.9	1,143.2	1,180.7	0.00	0.00	0.00	
9,000.0	90.27	90.11	7,657.2	-438.1	1,243.2	1,280.2	0.00	0.00	0.00	
9,100.0	90.27	90.11	7,656.7	-438.3	1,343.2	1,379.8	0.00	0.00	0.00	
9,200.0	90.27	90.11	7,656.2	-438.5	1,443.2	1,479.3	0.00	0.00	0.00	
9,300.0	90.27	90.11	7,655.8	-438.7	1,543.2	1,578.8	0.00	0.00	0.00	
9,400.0	90.27	90.11	7,655.3	-438.9	1,643.2	1,678.4	0.00	0.00	0.00	
9,500.0	90.27	90.11	7,654.8	-439.1	1,743.2	1,777.9	0.00	0.00	0.00	
9,600.0	90.27	90.11	7,654.4	-439.3	1,843.2	1,877.4	0.00	0.00	0.00	
9,700.0	90.27	90.11	7,653.9	-439.5	1,943.2	1,977.0	0.00	0.00	0.00	
9,800.0	90.27	90.11	7,653.5	-439.7	2,043.2	2,076.5	0.00	0.00	0.00	
9,900.0	90.27	90.11	7,653.0	-439.9	2,143.2	2,176.0	0.00	0.00	0.00	
10,000.0	90.27	90.11	7,652.5	-440.1	2,243.2	2,275.6	0.00	0.00	0.00	
10,100.0	90.27	90.11	7,652.1	-440.3	2,343.2	2,375.1	0.00	0.00	0.00	
10,200.0	90.27	90.11	7,651.6	-440.5	2,443.2	2,474.6	0.00	0.00	0.00	
10,300.0	90.27	90.11	7,651.1	-440.7	2,543.2	2,574.2	0.00	0.00	0.00	
10,400.0	90.27	90.11	7,650.7	-440.9	2,643.2	2,673.7	0.00	0.00	0.00	
10,500.0	90.27	90.11	7,650.2	-441.1	2,743.2	2,773.3	0.00	0.00	0.00	
10,600.0	90.27	90.11	7,649.8	-441.3	2,843.2	2,872.8	0.00	0.00	0.00	
10,700.0	90.27	90.11	7,649.3	-441.5	2,943.2	2,972.3	0.00	0.00	0.00	
10,800.0	90.27	90.11	7,648.8	-441.7	3,043.2	3,071.9	0.00	0.00	0.00	
10,900.0	90.27	90.11	7,648.4	-441.9	3,143.2	3,171.4	0.00	0.00	0.00	
11,000.0	90.27	90.11	7,647.9	-442.1	3,243.2	3,270.9	0.00	0.00	0.00	
11,100.0	90.27	90.11	7,647.4	-442.3	3,343.2	3,370.5	0.00	0.00	0.00	
11,200.0	90.27	90.11	7,647.0	-442.5	3,443.2	3,470.0	0.00	0.00	0.00	
11,300.0	90.27	90.11	7,646.5	-442.7	3,543.2	3,569.5	0.00	0.00	0.00	
11,400.0	90.27	90.11	7,646.1	-442.9	3,643.2	3,669.1	0.00	0.00	0.00	
11,500.0	90.27	90.11	7,645.6	-443.1	3,743.2	3,768.6	0.00	0.00	0.00	
11,600.0	90.27	90.11	7,645.1	-443.3	3,843.2	3,868.2	0.00	0.00	0.00	
11,700.0	90.27	90.11	7,644.7	-443.5	3,943.2	3,967.7	0.00	0.00	0.00	
11,800.0	90.27	90.11	7,644.2	-443.7	4,043.2	4,067.2	0.00	0.00	0.00	
11,900.0	90.27	90.11	7,643.7	-443.9	4,143.2	4,166.8	0.00	0.00	0.00	
12,000.0	90.27	90.11	7,643.3	-444.1	4,243.2	4,266.3	0.00	0.00	0.00	
12,100.0	90.27	90.11	7,642.8	-444.3	4,343.2	4,365.8	0.00	0.00	0.00	
12,200.0	90.27	90.11	7,642.4	-444.5	4,443.2	4,465.4	0.00	0.00	0.00	
12,268.0	90.27	90.11	7,642.0	-444.6	4,511.2	4,533.1	0.00	0.00	0.00	
<b>BHL 500' FSL - 500' FEL - TD = 12,268' MD - 7,642' TVD</b>										
12,268.4	90.27	90.11	7,642.0	-444.6	4,511.6	4,533.5	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 6457 CH
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5245.0usft (Original Well Elev)
<b>Project:</b>	Adams County, CO	<b>MD Reference:</b>	WELL @ 5245.0usft (Original Well Elev)
<b>Site:</b>	State of Colorado 36-1S-66W South Pad	<b>North Reference:</b>	True
<b>Well:</b>	STATE OF COLORADO 1S-66-36 6457 CH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
SOC 1S-66-36 6457 CH	0.00	0.00	7,642.0	-444.6	4,511.6	1,213,108.40	3,219,804.00	39° 54' 56.505 N	104° 42' 58.948 W
- plan misses target center by 0.1usft at 12268.4usft MD (7642.0 TVD, -444.6 N, 4511.6 E)									
- Point									
SOC 1S-66-36 6457 CH	0.00	0.00	7,662.0	-436.1	204.3	1,213,079.58	3,215,496.77	39° 54' 56.593 N	104° 43' 54.230 W
- plan misses target center by 0.1usft at 7961.0usft MD (7662.0 TVD, -436.1 N, 204.3 E)									
- Point									

Casing Points				
Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
(usft)	(usft)	Name	(")	(")
7,961.0	7,662.0	7	7	8-3/4

Formations					
Measured Depth	Vertical Depth			Dip	Dip Direction
(usft)	(usft)	Name	Lithology	(°)	(°)
845.0	845.0	Base Fox Hills		-0.26	90.11
5,024.5	5,006.9	Shannon		-0.26	90.11
7,330.8	7,305.2	Sharon Springs		-0.26	90.11
7,424.6	7,393.0	Niobrara		-0.26	90.11
7,854.2	7,650.6	Top C Target		-0.26	90.11
7,931.8	7,661.2	Landing Point		-0.26	90.11

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment
1.0	1.0	0.0	0.0	SHL 936' FSL - 295' FWL
1,000.0	1,000.0	0.0	0.0	Start Nudge @ 1,000' MD 1.5/100'
1,368.9	1,368.3	-15.0	-9.5	EOB Hold 5.53 Degrees
6,339.9	6,316.2	-420.1	-265.9	Start Drop -1.5/100'
6,708.0	6,683.7	-435.1	-275.4	End Drop
7,208.8	7,184.5	-435.1	-275.4	KOP @ 7,961' MD 12/100'
7,961.0	7,662.0	-436.1	204.3	7' Csg 500' FSL - 500' FWL
12,268.0	7,642.0	-444.6	4,511.2	BHL 500' FSL - 500' FEL
12,268.0	7,642.0	-444.6	4,511.2	TD = 12,268' MD - 7,642' TVD