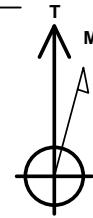


**BILL BARRETT CORP**  
**STATE OF COLORADO 1S-66-36 6457 BH**  
**Adams County, CO**

**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)**



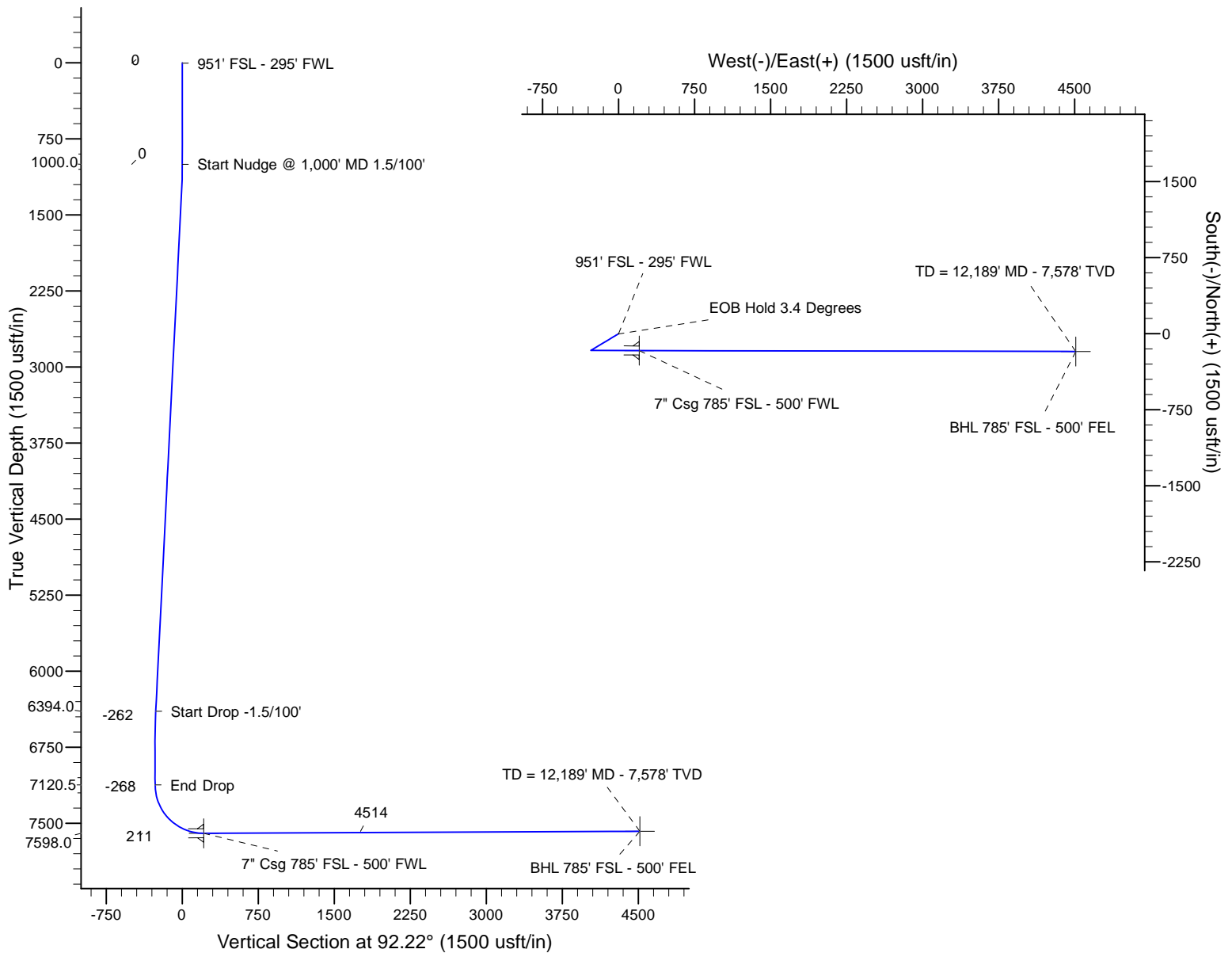
Azimuths to True North  
Magnetic North: 8.49°

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
1226.7	3.40	238.99	1226.6	-3.5	-5.8	1.50	238.99	-5.6
6403.2	3.40	238.99	6393.9	-161.6	-268.9	0.00	0.00	-262.5
6629.9	0.00	0.00	6620.5	-165.1	-274.7	1.50	180.00	-268.1
7129.9	0.00	0.00	7120.5	-165.1	-274.7	0.00	0.00	-268.1
7882.1	90.27	90.11	7598.0	-166.1	205.0	12.00	90.11	211.2
12188.5	90.27	90.11	7578.0	-174.6	4511.3	0.00	0.00	4514.7

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
845.0	845.0	Base Fox Hills
5002.9	5009.7	Shannon
7300.6	7314.6	Sharon Springs
7388.8	7414.8	Niobrara
7570.8	7718.0	Top B2 Target
7577.9	7740.8	Base B2 Target



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

Created By: Mike Kirby	Date: 15:32, 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 BH
<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 BH	<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 BH					
Well Position	+N/-S	15.0 usft	Northing:	1,213,528.90 usft	Latitude:	39° 55' 1.051 N
	+E/-W	0.0 usft	Easting:	3,215,288.60 usft	Longitude:	104° 43' 56.851 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	92.22

<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	
1,226.7	3.40	238.99	1,226.6	-3.5	-5.8	1.50	1.50	0.00	238.99	
6,403.2	3.40	238.99	6,393.9	-161.6	-268.9	0.00	0.00	0.00	0.00	
6,629.9	0.00	0.00	6,620.5	-165.1	-274.7	1.50	-1.50	0.00	180.00	
7,129.9	0.00	0.00	7,120.5	-165.1	-274.7	0.00	0.00	0.00	0.00	
7,882.1	90.27	90.11	7,598.0	-166.1	205.0	12.00	12.00	0.00	90.11	
12,188.5	90.27	90.11	7,578.0	-174.6	4,511.3	0.00	0.00	0.00	0.00	SOC 1S-66-36 6457 f

# Planning Report

<b>Database:</b>	Rocky Mountain R5000 Database	<b>Local Co-ordinate Reference:</b>	Well STATE OF COLORADO 1S-66-36 6457 BH
<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 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
2.0	0.00	0.00	2.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>951' 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	238.99	1,100.0	-0.7	-1.1	-1.1	1.50	1.50	0.00
1,200.0	3.00	238.99	1,199.9	-2.7	-4.5	-4.4	1.50	1.50	0.00
1,226.7	3.40	238.99	1,226.6	-3.5	-5.8	-5.6	1.50	1.50	0.00
<b>EOB Hold 3.4 Degrees</b>									
1,300.0	3.40	238.99	1,299.7	-5.7	-9.5	-9.3	0.00	0.00	0.00
1,400.0	3.40	238.99	1,399.6	-8.8	-14.6	-14.2	0.00	0.00	0.00
1,500.0	3.40	238.99	1,499.4	-11.8	-19.7	-19.2	0.00	0.00	0.00
1,600.0	3.40	238.99	1,599.2	-14.9	-24.7	-24.1	0.00	0.00	0.00
1,700.0	3.40	238.99	1,699.0	-17.9	-29.8	-29.1	0.00	0.00	0.00
1,800.0	3.40	238.99	1,798.9	-21.0	-34.9	-34.1	0.00	0.00	0.00
1,900.0	3.40	238.99	1,898.7	-24.0	-40.0	-39.0	0.00	0.00	0.00
2,000.0	3.40	238.99	1,998.5	-27.1	-45.1	-44.0	0.00	0.00	0.00
2,100.0	3.40	238.99	2,098.3	-30.1	-50.2	-49.0	0.00	0.00	0.00
2,200.0	3.40	238.99	2,198.2	-33.2	-55.2	-53.9	0.00	0.00	0.00
2,300.0	3.40	238.99	2,298.0	-36.3	-60.3	-58.9	0.00	0.00	0.00
2,400.0	3.40	238.99	2,397.8	-39.3	-65.4	-63.8	0.00	0.00	0.00
2,500.0	3.40	238.99	2,497.6	-42.4	-70.5	-68.8	0.00	0.00	0.00
2,600.0	3.40	238.99	2,597.4	-45.4	-75.6	-73.8	0.00	0.00	0.00
2,700.0	3.40	238.99	2,697.3	-48.5	-80.7	-78.7	0.00	0.00	0.00
2,800.0	3.40	238.99	2,797.1	-51.5	-85.8	-83.7	0.00	0.00	0.00
2,900.0	3.40	238.99	2,896.9	-54.6	-90.8	-88.7	0.00	0.00	0.00
3,000.0	3.40	238.99	2,996.7	-57.6	-95.9	-93.6	0.00	0.00	0.00
3,100.0	3.40	238.99	3,096.6	-60.7	-101.0	-98.6	0.00	0.00	0.00
3,200.0	3.40	238.99	3,196.4	-63.8	-106.1	-103.5	0.00	0.00	0.00
3,300.0	3.40	238.99	3,296.2	-66.8	-111.2	-108.5	0.00	0.00	0.00
3,400.0	3.40	238.99	3,396.0	-69.9	-116.3	-113.5	0.00	0.00	0.00
3,500.0	3.40	238.99	3,495.9	-72.9	-121.3	-118.4	0.00	0.00	0.00
3,600.0	3.40	238.99	3,595.7	-76.0	-126.4	-123.4	0.00	0.00	0.00
3,700.0	3.40	238.99	3,695.5	-79.0	-131.5	-128.4	0.00	0.00	0.00
3,800.0	3.40	238.99	3,795.3	-82.1	-136.6	-133.3	0.00	0.00	0.00
3,900.0	3.40	238.99	3,895.2	-85.1	-141.7	-138.3	0.00	0.00	0.00
4,000.0	3.40	238.99	3,995.0	-88.2	-146.8	-143.2	0.00	0.00	0.00
4,100.0	3.40	238.99	4,094.8	-91.3	-151.8	-148.2	0.00	0.00	0.00
4,200.0	3.40	238.99	4,194.6	-94.3	-156.9	-153.2	0.00	0.00	0.00
4,300.0	3.40	238.99	4,294.5	-97.4	-162.0	-158.1	0.00	0.00	0.00
4,400.0	3.40	238.99	4,394.3	-100.4	-167.1	-163.1	0.00	0.00	0.00
4,500.0	3.40	238.99	4,494.1	-103.5	-172.2	-168.0	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 6457 BH
<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 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)	
4,600.0	3.40	238.99	4,593.9	-106.5	-177.3	-173.0	0.00	0.00	0.00	
4,700.0	3.40	238.99	4,693.8	-109.6	-182.3	-178.0	0.00	0.00	0.00	
4,800.0	3.40	238.99	4,793.6	-112.6	-187.4	-182.9	0.00	0.00	0.00	
4,900.0	3.40	238.99	4,893.4	-115.7	-192.5	-187.9	0.00	0.00	0.00	
5,000.0	3.40	238.99	4,993.2	-118.8	-197.6	-192.9	0.00	0.00	0.00	
5,009.7	3.40	238.99	5,002.9	-119.1	-198.1	-193.3	0.00	0.00	0.00	
Shannon										
5,100.0	3.40	238.99	5,093.0	-121.8	-202.7	-197.8	0.00	0.00	0.00	
5,200.0	3.40	238.99	5,192.9	-124.9	-207.8	-202.8	0.00	0.00	0.00	
5,300.0	3.40	238.99	5,292.7	-127.9	-212.9	-207.7	0.00	0.00	0.00	
5,400.0	3.40	238.99	5,392.5	-131.0	-217.9	-212.7	0.00	0.00	0.00	
5,500.0	3.40	238.99	5,492.3	-134.0	-223.0	-217.7	0.00	0.00	0.00	
5,600.0	3.40	238.99	5,592.2	-137.1	-228.1	-222.6	0.00	0.00	0.00	
5,700.0	3.40	238.99	5,692.0	-140.1	-233.2	-227.6	0.00	0.00	0.00	
5,800.0	3.40	238.99	5,791.8	-143.2	-238.3	-232.6	0.00	0.00	0.00	
5,900.0	3.40	238.99	5,891.6	-146.3	-243.4	-237.5	0.00	0.00	0.00	
6,000.0	3.40	238.99	5,991.5	-149.3	-248.4	-242.5	0.00	0.00	0.00	
6,100.0	3.40	238.99	6,091.3	-152.4	-253.5	-247.4	0.00	0.00	0.00	
6,200.0	3.40	238.99	6,191.1	-155.4	-258.6	-252.4	0.00	0.00	0.00	
6,300.0	3.40	238.99	6,290.9	-158.5	-263.7	-257.4	0.00	0.00	0.00	
6,400.0	3.40	238.99	6,390.8	-161.5	-268.8	-262.3	0.00	0.00	0.00	
6,403.2	3.40	238.99	6,394.0	-161.6	-268.9	-262.5	0.00	0.00	0.00	
Start Drop -1.5/100'										
6,500.0	1.95	238.99	6,490.6	-164.0	-272.8	-266.3	1.50	-1.50	0.00	
6,600.0	0.45	238.99	6,590.6	-165.0	-274.6	-268.0	1.50	-1.50	0.00	
6,629.9	0.00	0.00	6,620.5	-165.1	-274.7	-268.1	1.50	-1.50	0.00	
6,700.0	0.00	0.00	6,690.6	-165.1	-274.7	-268.1	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,790.6	-165.1	-274.7	-268.1	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,890.6	-165.1	-274.7	-268.1	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,990.6	-165.1	-274.7	-268.1	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,090.6	-165.1	-274.7	-268.1	0.00	0.00	0.00	
7,129.9	0.00	0.00	7,120.5	-165.1	-274.7	-268.1	0.00	0.00	0.00	
End Drop										
7,200.0	8.41	90.11	7,190.4	-165.1	-269.6	-263.0	12.00	12.00	0.00	
7,300.0	20.41	90.11	7,287.0	-165.2	-244.7	-238.1	12.00	12.00	0.00	
7,314.6	22.16	90.11	7,300.6	-165.2	-239.4	-232.8	12.00	12.00	0.00	
Sharon Springs										
7,400.0	32.41	90.11	7,376.4	-165.2	-200.3	-193.8	12.00	12.00	0.00	
7,414.8	34.19	90.11	7,388.8	-165.3	-192.2	-185.6	12.00	12.00	0.00	
Niobrara										
7,500.0	44.41	90.11	7,454.6	-165.4	-138.3	-131.8	12.00	12.00	0.00	
7,600.0	56.41	90.11	7,518.3	-165.5	-61.4	-54.9	12.00	12.00	0.00	
7,700.0	68.41	90.11	7,564.5	-165.7	27.1	33.5	12.00	12.00	0.00	
7,718.0	70.57	90.11	7,570.8	-165.7	43.9	50.3	12.00	12.00	0.00	
Top B2 Target										
7,740.8	73.32	90.11	7,577.9	-165.8	65.7	72.0	12.00	12.00	0.00	
Base B2 Target										
7,800.0	80.41	90.11	7,591.3	-165.9	123.3	129.6	12.00	12.00	0.00	
7,882.1	90.27	90.11	7,598.0	-166.1	205.0	211.3	12.00	12.00	0.00	
7" Csg 785' FSL - 500' FWL - 7"										
7,900.0	90.27	90.11	7,597.9	-166.1	222.9	229.1	0.00	0.00	0.00	
8,000.0	90.27	90.11	7,597.4	-166.3	322.9	329.1	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 BH
<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 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)	
8,100.0	90.27	90.11	7,596.9	-166.5	422.9	429.0	0.00	0.00	0.00	
8,200.0	90.27	90.11	7,596.5	-166.7	522.9	528.9	0.00	0.00	0.00	
8,300.0	90.27	90.11	7,596.0	-166.9	622.9	628.9	0.00	0.00	0.00	
8,400.0	90.27	90.11	7,595.6	-167.1	722.9	728.8	0.00	0.00	0.00	
8,500.0	90.27	90.11	7,595.1	-167.3	822.9	828.7	0.00	0.00	0.00	
8,600.0	90.27	90.11	7,594.6	-167.5	922.9	928.7	0.00	0.00	0.00	
8,700.0	90.27	90.11	7,594.2	-167.7	1,022.9	1,028.6	0.00	0.00	0.00	
8,800.0	90.27	90.11	7,593.7	-167.9	1,122.9	1,128.5	0.00	0.00	0.00	
8,900.0	90.27	90.11	7,593.2	-168.1	1,222.9	1,228.5	0.00	0.00	0.00	
9,000.0	90.27	90.11	7,592.8	-168.3	1,322.9	1,328.4	0.00	0.00	0.00	
9,100.0	90.27	90.11	7,592.3	-168.5	1,422.9	1,428.3	0.00	0.00	0.00	
9,200.0	90.27	90.11	7,591.8	-168.7	1,522.9	1,528.3	0.00	0.00	0.00	
9,300.0	90.27	90.11	7,591.4	-168.9	1,622.9	1,628.2	0.00	0.00	0.00	
9,400.0	90.27	90.11	7,590.9	-169.1	1,722.9	1,728.1	0.00	0.00	0.00	
9,500.0	90.27	90.11	7,590.4	-169.3	1,822.9	1,828.0	0.00	0.00	0.00	
9,600.0	90.27	90.11	7,590.0	-169.5	1,922.9	1,928.0	0.00	0.00	0.00	
9,700.0	90.27	90.11	7,589.5	-169.7	2,022.9	2,027.9	0.00	0.00	0.00	
9,800.0	90.27	90.11	7,589.1	-169.9	2,122.9	2,127.8	0.00	0.00	0.00	
9,900.0	90.27	90.11	7,588.6	-170.1	2,222.9	2,227.8	0.00	0.00	0.00	
10,000.0	90.27	90.11	7,588.1	-170.3	2,322.9	2,327.7	0.00	0.00	0.00	
10,100.0	90.27	90.11	7,587.7	-170.5	2,422.9	2,427.6	0.00	0.00	0.00	
10,200.0	90.27	90.11	7,587.2	-170.7	2,522.9	2,527.6	0.00	0.00	0.00	
10,300.0	90.27	90.11	7,586.7	-170.9	2,622.9	2,627.5	0.00	0.00	0.00	
10,400.0	90.27	90.11	7,586.3	-171.1	2,722.9	2,727.4	0.00	0.00	0.00	
10,500.0	90.27	90.11	7,585.8	-171.3	2,822.8	2,827.4	0.00	0.00	0.00	
10,600.0	90.27	90.11	7,585.3	-171.5	2,922.8	2,927.3	0.00	0.00	0.00	
10,700.0	90.27	90.11	7,584.9	-171.7	3,022.8	3,027.2	0.00	0.00	0.00	
10,800.0	90.27	90.11	7,584.4	-171.9	3,122.8	3,127.2	0.00	0.00	0.00	
10,900.0	90.27	90.11	7,583.9	-172.1	3,222.8	3,227.1	0.00	0.00	0.00	
11,000.0	90.27	90.11	7,583.5	-172.3	3,322.8	3,327.0	0.00	0.00	0.00	
11,100.0	90.27	90.11	7,583.0	-172.5	3,422.8	3,427.0	0.00	0.00	0.00	
11,200.0	90.27	90.11	7,582.6	-172.7	3,522.8	3,526.9	0.00	0.00	0.00	
11,300.0	90.27	90.11	7,582.1	-172.9	3,622.8	3,626.8	0.00	0.00	0.00	
11,400.0	90.27	90.11	7,581.6	-173.1	3,722.8	3,726.7	0.00	0.00	0.00	
11,500.0	90.27	90.11	7,581.2	-173.3	3,822.8	3,826.7	0.00	0.00	0.00	
11,600.0	90.27	90.11	7,580.7	-173.5	3,922.8	3,926.6	0.00	0.00	0.00	
11,700.0	90.27	90.11	7,580.2	-173.7	4,022.8	4,026.5	0.00	0.00	0.00	
11,800.0	90.27	90.11	7,579.8	-173.8	4,122.8	4,126.5	0.00	0.00	0.00	
11,900.0	90.27	90.11	7,579.3	-174.0	4,222.8	4,226.4	0.00	0.00	0.00	
12,000.0	90.27	90.11	7,578.8	-174.2	4,322.8	4,326.3	0.00	0.00	0.00	
12,100.0	90.27	90.11	7,578.4	-174.4	4,422.8	4,426.3	0.00	0.00	0.00	
12,188.0	90.27	90.11	7,578.0	-174.6	4,510.8	4,514.2	0.00	0.00	0.00	
<b>BHL 785' FSL - 500' FEL - TD = 12,189' MD - 7,578' TVD</b>										
12,188.5	90.27	90.11	7,578.0	-174.6	4,511.3	4,514.7	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 BH
<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 BH	<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 BH	0.00	0.00	7,578.0	-174.6	4,511.3	1,213,393.40	3,219,801.24	39° 54' 59.322 N	104° 42' 58.952 W
- plan misses target center by 0.1usft at 12188.5usft MD (7578.0 TVD, -174.6 N, 4511.3 E)									
- Point									
SOC 1S-66-36 6457 BH	0.00	0.00	7,598.0	-166.1	205.0	1,213,364.58	3,215,495.00	39° 54' 59.410 N	104° 43' 54.221 W
- plan misses target center by 0.1usft at 7882.1usft MD (7598.0 TVD, -166.1 N, 205.0 E)									
- Point									

Casing Points				
Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
(usft)	(usft)	Name	(")	(")
7,882.1	7,598.0	7"	7	8-3/4

Formations					
Measured Depth	Vertical Depth			Dip	Dip Direction
(usft)	(usft)	Name	Lithology	(°)	(°)
845.0	845.0	Base Fox Hills		-0.27	238.99
5,009.7	5,002.9	Shannon		-0.27	238.99
7,314.6	7,300.6	Sharon Springs		-0.27	238.99
7,414.8	7,388.8	Niobrara		-0.27	238.99
7,718.0	7,570.8	Top B2 Target		-0.27	238.99
7,740.8	7,577.9	Base B2 Target		-0.27	238.99

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment
2.0	2.0	0.0	0.0	951' FSL - 295' FWL
1,000.0	1,000.0	0.0	0.0	Start Nudge @ 1,000' MD 1.5/100'
1,226.7	1,226.6	-3.5	-5.8	EOB Hold 3.4 Degrees
6,403.2	6,394.0	-161.6	-268.9	Start Drop -1.5/100'
7,129.9	7,120.5	-165.1	-274.7	End Drop
7,882.1	7,598.0	-166.1	205.0	7" Csg 785' FSL - 500' FWL
12,188.0	7,578.0	-174.6	4,510.8	BHL 785' FSL - 500' FEL
12,188.0	7,578.0	-174.6	4,510.8	TD = 12,189' MD - 7,578' TVD