



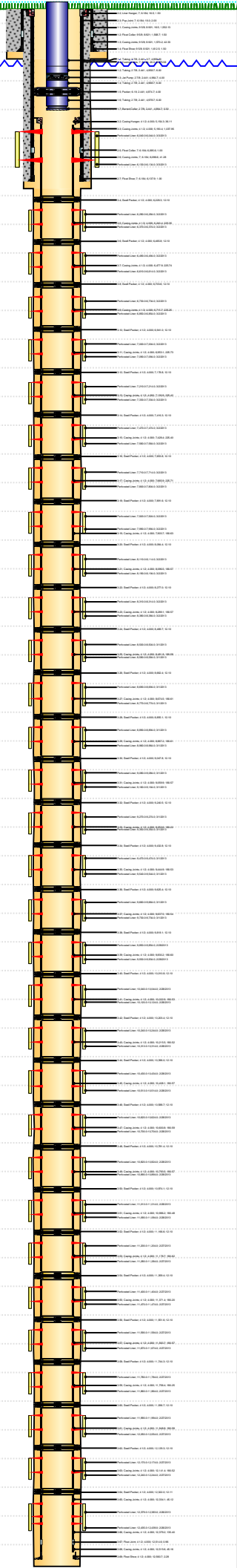
Lease Review All
Well Name: RAZOR 22-2712H

API Number 051233625700				WPC ID 1CO076865				Well Permit Number				Field Name DJ Horizontal Niobrara				County Weld				State CO							
Well Configuration Type Lateral/Horizontal						Orig KB Elv (ft) 4,849.50				Ground Elevation (ft) 4,833.00				Casing Flange Elevation (ft)				Tubing Head Elevation (ft)				Total Depth (ftKB) 12,568.0					
Original Spud Date 1/16/2013				Completion Date 3/7/2013				Asset Group Central Rockies Asset Group				Responsible Engineer Gary Nordlander				N/S Dist (ft) 330.0				N/S Ref FNL		E/W Dist (ft) 660.0				E/W Ref FWL	
Lot		Quarter 1 NW		Quarter 2 NW		Quarter 3		Quarter 4		Section 22		Section Suffix		Section Type		Township 10 N		Township N/S Dir		Range 58		Range E/W Dir W		Meridian			

Lateral/Horizontal - Original Hole, 6/4/2013 2:48:22 PM					Wellbore Sections						
MD (ftKB)	TV D (ftKB)	In cl (°)	Vertical schematic (actual)	Logs	Wellbore Name		Start Date	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
					Original Hole		1/16/2013	13 1/2	16.5	1,625.0	
					Original Hole		1/17/2013	8 3/4	1,625.0	6,150.0	
					Original Hole		1/21/2013	6	6,150.0	12,568.0	
Surface Csg, 1,614.0ftKB											
OD (in)		Wt (lb/ft)		Grade	Top (ftKB)	Btm (ftKB)	Len (ft)		Item Des		
9 5/8		36.00		J-55	16.5	1,568.7	1,552.13		Casing Joints		
9 5/8					1,568.7	1,570.2	1.50		Float Collar		
9 5/8		36.00		J-55	1,570.2	1,612.5	42.33		Casing Joints		
9 5/8					1,612.5	1,614.0	1.50		Float Shoe		
Intermediate Csg, 6,138.9ftKB											
OD (in)		Wt (lb/ft)		Grade	Top (ftKB)	Btm (ftKB)	Len (ft)		Item Des		
7		29.00		HCP-110	16.5	16.5	0.00		Landing Joint		
7		29.00		HCP-110	16.5	18.0	1.50		Liner Hanger		
7		29.00		HCP-110	18.0	20.0	2.00		Pup Joint		
7		29.00		HCP-110	20.0	6,095.6	6,075.58		Casing Joints		
7		29.00		HCP-110	6,095.6	6,096.6	1.00		Float Collar		
7		29.00		HCP-110	6,096.6	6,137.9	41.28		Casing Joints		
7		29.00		HCP-110	6,137.9	6,138.9	1.00		Float Shoe		
Liner, 12,563.0ftKB											
OD (in)		Wt (lb/ft)		Grade	Top (ftKB)	Btm (ftKB)	Len (ft)		Item Des		
4 1/2		11.60		SeAH-90	5,154.3	5,154.3	0.00		Casing Joints		
4 1/2		11.60			5,154.3	5,190.4	36.11		Casing Hanger		
4 1/2		11.60		SeAH-90	5,190.4	6,228.3	1,037.95		Casing Joints		
4 1/2		11.60			6,228.3	6,240.4	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	6,240.4	6,465.8	225.35		Casing Joints		
4 1/2		11.60			6,465.8	6,477.9	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	6,477.9	6,703.6	225.74		Casing Joints		
4 1/2		11.60			6,703.6	6,715.7	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	6,715.7	6,941.0	225.25		Casing Joints		
4 1/2		11.60			6,941.0	6,953.1	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	6,953.1	7,178.8	225.73		Casing Joints		
4 1/2		11.60			7,178.8	7,190.9	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	7,190.9	7,416.3	225.42		Casing Joints		
4 1/2		11.60			7,416.3	7,428.4	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	7,428.4	7,653.8	225.40		Casing Joints		
4 1/2		11.60			7,653.8	7,665.9	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	7,665.9	7,891.6	225.71		Casing Joints		
4 1/2		11.60			7,891.6	7,903.7	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	7,903.7	8,084.4	180.63		Casing Joints		
4 1/2		11.60			8,084.4	8,096.5	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	8,096.5	8,277.0	180.57		Casing Joints		
4 1/2		11.60			8,277.0	8,289.1	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	8,289.1	8,469.7	180.57		Casing Joints		
4 1/2		11.60			8,469.7	8,481.8	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	8,481.8	8,662.4	180.58		Casing Joints		
4 1/2		11.60			8,662.4	8,674.5	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	8,674.5	8,855.1	180.61		Casing Joints		
4 1/2		11.60			8,855.1	8,867.2	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	8,867.2	9,047.8	180.61		Casing Joints		
4 1/2		11.60			9,047.8	9,059.9	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	9,059.9	9,240.5	180.57		Casing Joints		
4 1/2		11.60			9,240.5	9,252.6	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	9,252.6	9,432.8	180.22		Casing Joints		
4 1/2		11.60			9,432.8	9,444.9	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	9,444.9	9,625.4	180.53		Casing Joints		
4 1/2		11.60			9,625.4	9,637.5	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	9,637.5	9,818.1	180.54		Casing Joints		
4 1/2		11.60			9,818.1	9,830.2	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	9,830.2	10,010.8	180.60		Casing Joints		
4 1/2		11.60			10,010.8	10,022.9	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	10,022.9	10,203.4	180.53		Casing Joints		
4 1/2		11.60			10,203.4	10,215.5	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	10,215.5	10,396.0	180.52		Casing Joints		
4 1/2		11.60			10,396.0	10,408.1	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	10,408.1	10,588.7	180.57		Casing Joints		
4 1/2		11.60			10,588.7	10,600.8	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	10,600.8	10,781.4	180.59		Casing Joints		
4 1/2		11.60			10,781.4	10,793.5	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	10,793.5	10,974.1	180.57		Casing Joints		
4 1/2		11.60			10,974.1	10,986.2	12.10		Swell Packer		
4 1/2		11.60		SeAH-90	10,986.2	11,166.6	180.48		Casing Joints		



Lease Review All
Well Name: RAZOR 22-2712H

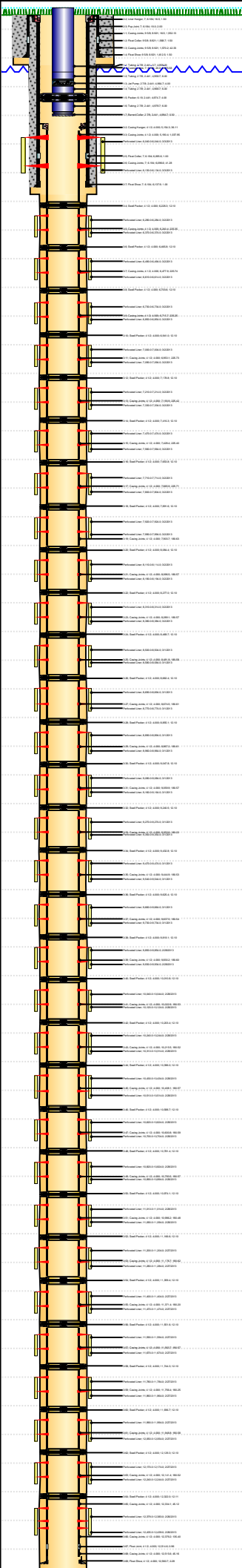
API Number 051233625700			WPC ID 1CO076865			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO																
Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 4,849.50			Ground Elevation (ft) 4,833.00			Casing Flange Elevation (ft)			Tubing Head Elevation (ft)		Total Depth (ftKB) 12,568.0															
Original Spud Date 1/16/2013			Completion Date 3/7/2013		Asset Group Central Rockies Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 330.0		N/S Ref FNL		E/W Dist (ft) 660.0		E/W Ref FWL													
Lot		Quarter 1 NW	Quarter 2 NW	Quarter 3	Quarter 4	Section 22		Section Suffix		Section Type		Township 10 N		Township N/S Dir		Range 58 W		Meridian												
Lateral/Horizontal - Original Hole, 6/4/2013 2:48:24 PM																		OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des						
MD (ftKB)	TV D (ftKB B)	In cl (°)	Vertical schematic (actual)	Logs														4 1/2	11.60		11,166.6	11,178.7	12.10	Swell Packer						
																		4 1/2	11.60	SeAH-90	11,178.7	11,359.4	180.62	Casing Joints						
													4 1/2	11.60		11,359.4	11,371.5	12.10	Swell Packer											
													4 1/2	11.60	SeAH-90	11,371.5	11,551.7	180.20	Casing Joints											
20.0	20.0	0.9																4 1/2	11.60		11,551.7	11,563.8	12.10	Swell Packer						
													4 1/2	11.60	SeAH-90	11,563.8	11,744.3	180.57	Casing Joints											
1,613.8	1,613.3	2.8																4 1/2	11.60		11,744.3	11,756.4	12.10	Swell Packer						
													4 1/2	11.60	SeAH-90	11,756.4	11,936.7	180.25	Casing Joints											
4,968.8	4,967.6	1.0																4 1/2	11.60		11,936.7	11,948.8	12.10	Swell Packer						
													4 1/2	11.60	SeAH-90	11,948.8	12,129.4	180.58	Casing Joints											
4,984.9	4,983.7	1.0																4 1/2	11.60		12,129.4	12,141.5	12.10	Swell Packer						
													4 1/2	11.60	SeAH-90	12,141.5	12,322.0	180.52	Casing Joints											
6,044.0	5,833.7	78.2																4 1/2	11.60		12,322.0	12,334.1	12.11	Swell Packer						
													4 1/2	11.60	SeAH-90	12,334.1	12,379.2	45.12	Casing Joints											
6,133.9	5,842.9	89.0																4 1/2	11.60	SeAH-90	12,379.2	12,514.6	135.40	Casing Joints						
													4 1/2			12,514.6	12,515.6	0.96	Float Joint											
6,228.3	5,843.4	90.0																4 1/2	11.60	SeAH-90	12,515.6	12,560.7	45.16	Casing Joints						
													4 1/2			12,560.7	12,563.0	2.28	Float Shoe											
6,370.1	5,841.4	91.7																Cement Stages												
													Des	Pump Start Date		Drill Out Date		Top (ftKB)		Btm (ftKB)		Top Meas Meth								
6,490.2	5,839.8	90.1																Surface Casing Cement		1/17/2013				16.5		1,614.0		Returns to Surface		
													Intermediate Casing Cement		1/20/2013				16.5		6,138.9		Returns to Surface							
6,703.7	5,841.2	89.2																Perforations												
													Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone									
6,850.1	5,839.7	91.0																Perforated Liner		3/3/2013		6,040.0		6,044.0		Niobrara, Original Hole				
													Perforated Liner		3/3/2013		6,130.0		6,134.0		Niobrara, Original Hole									
7,000.0	5,836.6	91.3																Perforated Liner		3/2/2013		6,280.0		6,284.0		Niobrara, Original Hole				
													Perforated Liner		3/2/2013		6,370.0		6,374.0		Niobrara, Original Hole									
7,178.8	5,831.3	91.5																Perforated Liner		3/2/2013		6,490.0		6,494.0		Niobrara, Original Hole				
													Perforated Liner		3/2/2013		6,610.0		6,614.0		Niobrara, Original Hole									
7,330.1	5,829.4	90.6																Perforated Liner		3/2/2013		6,730.0		6,734.0		Niobrara, Original Hole				
													Perforated Liner		3/2/2013		6,850.0		6,854.0		Niobrara, Original Hole									
7,470.1	5,827.8	90.3																Perforated Liner		3/2/2013		7,000.0		7,004.0		Niobrara, Original Hole				
													Perforated Liner		3/2/2013		7,090.0		7,094.0		Niobrara, Original Hole									
7,653.9	5,826.0	90.0																Perforated Liner		3/2/2013		7,210.0		7,214.0		Niobrara, Original Hole				
													Perforated Liner		3/2/2013		7,330.0		7,334.0		Niobrara, Original Hole									
7,799.9	5,826.4	89.6																Perforated Liner		3/2/2013		7,470.0		7,474.0		Niobrara, Original Hole				
													Perforated Liner		3/2/2013		7,560.0		7,564.0		Niobrara, Original Hole									
7,919.9	5,829.0	88.4																Perforated Liner		3/2/2013		7,710.0		7,714.0		Niobrara, Original Hole				
													Perforated Liner		3/2/2013		7,800.0		7,804.0		Niobrara, Original Hole									
8,084.3	5,833.9	90.2																Perforated Liner		3/2/2013		7,920.0		7,924.0		Niobrara, Original Hole				
													Perforated Liner		3/2/2013		7,990.0		7,994.0		Niobrara, Original Hole									
8,190.0	5,830.8	92.1																Perforated Liner		3/2/2013		8,110.0		8,114.0		Niobrara, Original Hole				
													Perforated Liner		3/2/2013		8,190.0		8,194.0		Niobrara, Original Hole									
8,310.0	5,827.4	90.4																Perforated Liner		3/2/2013		8,310.0		8,314.0		Niobrara, Original Hole				
													Perforated Liner		3/2/2013		8,380.0		8,384.0		Niobrara, Original Hole									
8,469.8	5,825.9	90.7																Perforated Liner		3/1/2013		8,500.0		8,504.0		Niobrara, Original Hole				
													Perforated Liner		3/1/2013		8,580.0		8,584.0		Niobrara, Original Hole									
8,580.1	5,823.3	91.4																Perforated Liner		3/2/2013		8,690.0		8,694.0		Niobrara, Original Hole				
													Perforated Liner																	
8,690.0	5,823.6	89.5																Perforated Liner												
													Perforated Liner																	
8,855.0	5,824.1	88.3																Perforated Liner												
													Perforated Liner																	
8,960.0	5,828.9	87.2																Perforated Liner												
													Perforated Liner																	
9,080.1	5,833.1	89.0																Perforated Liner												
													Perforated Liner																	
9,240.5	5,830.3	91.4																Perforated Liner												
													Perforated Liner																	
9,350.1	5,828.4	90.4																Perforated Liner												
													Perforated Liner																	
9,470.1	5,825.9	91.9																Perforated Liner												
													Perforated Liner																	
9,625.3	5,820.8	91.1																Perforated Liner												
													Perforated Liner																	
9,730.0	5,820.0	89.6																Perforated Liner												
													Perforated Liner																	
9,850.1	5,822.3	88.5																Perforated Liner												
													Perforated Liner																	
10,010.8	5,828.7	89.1																Perforated Liner												
													Perforated Liner																	
10,120.1	5,830.0	89.9																Perforated Liner												
													Perforated Liner																	
10,240.2	5,828.9	90.2																Perforated Liner												
													Perforated Liner																	
10,396.0	5,825.7	91.3																Perforated Liner												
													Perforated Liner																	
10,509.8	5,823.1	90.9																Perforated Liner												
													Perforated Liner																	
10,620.1	5,821.4	90.8																Perforated Liner												
													Perforated Liner																	
10,781.5	5,820.1	89.8																Perforated Liner												
													Perforated Liner																	
10,890.1	5,817.9	91.6																Perforated Liner												
													Perforated Liner																	
11,009.8	5,814.9	91.4																Perforated Liner												
													Perforated Liner																	
11,166.7	5,811.7	91.0																Perforated Liner												
													Perforated Liner																	
11,279.9	5,810.7	89.7																Perforated Liner												
													Perforated Liner																	
11,399.9	5,811.1	90.3																Perforated Liner												
													Perforated Liner																	
11,551.5	5,810.8	90.0																Perforated Liner												
													Perforated Liner																	
11,669.9	5,810.0	90.3																Perforated Liner												
													Perforated Liner																	
11,779.9	5,810.4	89.2																Perforated Liner												
													Perforated Liner																	
11,936.7	5,813.8	88.1																Perforated Liner												
													Perforated Liner																	
12,049.9	5,816.9	88.8																Perforated Liner												
													Perforated Liner																	
12,169.9	5,815.2	91.7																Perforated Liner												
													Perforated Liner																	
12,321.9	5,811.4	91.4																Perforated Liner												
													Perforated Liner																	
12,382.9	5,809.8	91.7																Perforated Liner												
													Perforated Liner																	
12,515.4	5,805.3	92.2																Perforated Liner												
													Perforated Liner																	



Lease Review All
Well Name: RAZOR 22-2712H

API Number 051233625700			WPC ID 1C0076865			Well Permit Number			Field Name DJ Horizontal Niobrara				County Weld			State CO		
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,849.50		Ground Elevation (ft) 4,833.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)			Total Depth (ftKB) 12,568.0				
Original Spud Date 1/16/2013		Completion Date 3/7/2013		Asset Group Central Rockies Asset Group				Responsible Engineer Gary Nordlander			N/S Dist (ft) 330.0		N/S Ref FNL		E/W Dist (ft) 660.0		E/W Ref FWL	
Lot		Quarter 1 NW	Quarter 2 NW	Quarter 3	Quarter 4	Section 22	Section Suffix	Section Type		Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian				

Lateral/Horizontal - Original Hole, 6/4/2013 2:48:27 PM					Perforations				
MD (ftKB)	TV D (ftKB)	In cl (°)	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
					Perforated Liner	3/1/2013	8,770.0	8,774.0	Niobrara, Original Hole
20.0	20.0	0.9			Perforated Liner	3/1/2013	8,890.0	8,894.0	Niobrara, Original Hole
1,613.8	1,613.3	2.8			Perforated Liner	3/1/2013	8,960.0	8,964.0	Niobrara, Original Hole
4,968.8	4,967.6	1.0			Perforated Liner	3/1/2013	9,080.0	9,084.0	Niobrara, Original Hole
4,984.9	4,983.7	1.0			Perforated Liner	3/1/2013	9,160.0	9,164.0	Niobrara, Original Hole
6,044.0	5,833.7	78.2			Perforated Liner	3/1/2013	9,270.0	9,274.0	Niobrara, Original Hole
6,133.9	5,842.9	89.0			Perforated Liner	3/1/2013	9,350.0	9,354.0	Niobrara, Original Hole
6,228.3	5,843.4	90.0			Perforated Liner	3/1/2013	9,470.0	9,474.0	Niobrara, Original Hole
6,370.1	5,841.4	91.7			Perforated Liner	3/1/2013	9,540.0	9,544.0	Niobrara, Original Hole
6,490.2	5,839.8	90.1			Perforated Liner	3/1/2013	9,660.0	9,664.0	Niobrara, Original Hole
6,703.7	5,841.2	89.2			Perforated Liner	3/1/2013	9,730.0	9,734.0	Niobrara, Original Hole
6,850.1	5,839.7	91.0			Perforated Liner	3/1/2013	9,850.0	9,854.0	Niobrara, Original Hole
7,000.0	5,836.6	91.3			Perforated Liner	3/1/2013	9,930.0	9,934.0	Niobrara, Original Hole
7,178.8	5,831.3	91.5			Perforated Liner	3/1/2013	10,040.0	10,044.0	Niobrara, Original Hole
7,330.1	5,829.4	90.6			Perforated Liner	3/1/2013	10,120.0	10,124.0	Niobrara, Original Hole
7,470.1	5,827.8	90.3			Perforated Liner	3/1/2013	10,240.0	10,244.0	Niobrara, Original Hole
7,653.9	5,826.0	90.0			Perforated Liner	3/1/2013	10,310.0	10,314.0	Niobrara, Original Hole
7,799.9	5,826.4	89.6			Perforated Liner	3/1/2013	10,430.0	10,434.0	Niobrara, Original Hole
7,919.9	5,829.0	88.4			Perforated Liner	3/1/2013	10,510.0	10,514.0	Niobrara, Original Hole
8,084.3	5,833.9	90.2			Perforated Liner	3/1/2013	10,620.0	10,624.0	Niobrara, Original Hole
8,190.0	5,830.8	92.1			Perforated Liner	3/1/2013	10,700.0	10,704.0	Niobrara, Original Hole
8,310.0	5,827.4	90.4			Perforated Liner	3/1/2013	10,820.0	10,824.0	Niobrara, Original Hole
8,469.8	5,825.9	90.7			Perforated Liner	3/1/2013	10,890.0	10,894.0	Niobrara, Original Hole
8,580.1	5,823.3	91.4			Perforated Liner	3/1/2013	11,010.0	11,014.0	Niobrara, Original Hole
8,690.0	5,823.6	89.5			Perforated Liner	3/1/2013	11,090.0	11,094.0	Niobrara, Original Hole
8,855.0	5,824.1	88.3			Perforated Liner	3/1/2013	11,200.0	11,204.0	Niobrara, Original Hole
8,960.0	5,828.9	87.2			Perforated Liner	3/1/2013	11,280.0	11,284.0	Niobrara, Original Hole
9,080.1	5,833.1	89.0			Perforated Liner	3/1/2013	11,470.0	11,474.0	Niobrara, Original Hole
9,240.5	5,830.3	91.4			Perforated Liner	3/1/2013	11,590.0	11,594.0	Niobrara, Original Hole
9,350.1	5,828.4	90.4			Perforated Liner	3/1/2013	11,670.0	11,674.0	Niobrara, Original Hole
9,470.1	5,825.9	91.9			Perforated Liner	3/1/2013	11,780.0	11,784.0	Niobrara, Original Hole
9,625.3	5,820.8	91.1			Perforated Liner	3/1/2013	11,860.0	11,864.0	Niobrara, Original Hole
9,730.0	5,820.0	89.6			Perforated Liner	3/1/2013	11,990.0	11,994.0	Niobrara, Original Hole
9,850.1	5,822.3	88.5			Perforated Liner	3/1/2013	12,050.0	12,054.0	Niobrara, Original Hole
10,010.8	5,828.7	89.1			Perforated Liner	3/1/2013	12,170.0	12,174.0	Niobrara, Original Hole
10,120.1	5,830.0	89.9			Perforated Liner	3/1/2013	12,240.0	12,244.0	Niobrara, Original Hole
10,240.2	5,828.9	90.2			Perforated Liner	3/1/2013	12,379.0	12,383.0	Niobrara, Original Hole
10,396.0	5,825.7	91.3			Perforated Liner	3/1/2013	12,435.0	12,439.0	Niobrara, Original Hole
10,509.8	5,823.1	90.9			Perforated Liner	3/1/2013			
10,620.1	5,821.4	90.8			Perforated Liner	3/1/2013			
10,781.5	5,820.1	89.8			Perforated Liner	3/1/2013			
10,890.1	5,817.9	91.6			Perforated Liner	3/1/2013			
11,009.8	5,814.9	91.4			Perforated Liner	3/1/2013			
11,166.7	5,811.7	91.0			Perforated Liner	3/1/2013			
11,279.9	5,810.7	89.7			Perforated Liner	3/1/2013			
11,399.9	5,811.1	90.3			Perforated Liner	3/1/2013			
11,551.5	5,810.8	90.0			Perforated Liner	3/1/2013			
11,669.9	5,810.0	90.3			Perforated Liner	3/1/2013			
11,779.9	5,810.4	89.2			Perforated Liner	3/1/2013			
11,936.7	5,813.8	88.1			Perforated Liner	3/1/2013			
12,049.9	5,816.9	88.8			Perforated Liner	3/1/2013			
12,169.9	5,815.2	91.7			Perforated Liner	3/1/2013			
12,321.9	5,811.4	91.4			Perforated Liner	3/1/2013			
12,382.9	5,809.8	91.7			Perforated Liner	3/1/2013			
12,515.4	5,805.3	92.2			Perforated Liner	3/1/2013			

Lease Review All																
Well Name: RAZOR 22-2712H																
API Number 051233625700			WPC ID 1CO076865			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO		
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 4,849.50			Ground Elevation (ft) 4,833.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,568.0				
Original Spud Date 1/16/2013		Completion Date 3/7/2013		Asset Group Central Rockies Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 330.0		N/S Ref FNL		E/W Dist (ft) 660.0		E/W Ref FWL
Lot		Quarter 1 NW	Quarter 2 NW	Quarter 3	Quarter 4	Section 22	Section Suffix	Section Type		Township 10	Township N/S Dir N	Range 58		Range E/W Dir W	Meridian	
Lateral/Horizontal - Original Hole, 6/4/2013 2:48:29 PM						Stim/Treat Stages										
MD (ftKB)	TV D (ftK B)	In cl (°)	Vertical schematic (actual)			Logs	Stage Type	Start Date		Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid			Vol Clean Pump (bbl)	
20.0	20.0	0.9					Frac	3/2/2013		6,040.0	6,134.0	20972# 40/70 sd, 87908# 20/40 sd, 13838# 20/40 CRC, Slick Water			2891.00	
1,613.8	1,613.3	2.8				Frac	3/2/2013		6,280.0	6,374.0	19972# 40/70 sd, 94381# 20/40 sd, 18553# 20/40 CRC, Slick Water			2955.00		
4,968.8	4,967.6	1.0				Frac	3/2/2013		6,490.0	6,614.0	19335# 40/70 sd, 85701# 20/40 sd, 20468# 20/40 CRC, Slick Water			2923.00		
4,984.9	4,983.7	1.0				Frac	3/2/2013		6,730.0	6,854.0	19738# 40/70 sd, 85126# 20/40 sd, 18509# 20/40 CRC, Slick Water			3018.00		
6,044.0	5,833.7	78.2				Pad	3/2/2013		7,000.0	7,094.0	19836# 40/70 sd, 82963# 20/40 sd, 22335# 20/40 CRC, Slick Water			3050.00		
6,133.9	5,842.9	89.0				Pad	3/2/2013		7,210.0	7,334.0	21464# 40/70 sd, 81680# 20/40 sd, 22267# 20/40 CRC, Slick Water			2914.00		
6,228.3	5,843.4	90.0				Pad	3/2/2013		7,470.0	7,564.0	19876# 40/70 sd, 82113# 20/40 sd, 24594# 20/40 CRC, Slick Water			3067.00		
6,370.1	5,841.4	91.7				Pad	3/2/2013		7,710.0	7,804.0	20278# 40/70 sd,104230# 20/40 sd, 22706# 20/40 CRC, Slick Water			3084.00		
6,490.2	5,839.8	90.1				Frac	3/1/2013		7,920.0	7,994.0	20461# 40/70 sd, 84731# 20/40 sd, 24860# 20/40 CRC, Slick Water			2177.00		
6,703.7	5,841.2	89.2				Frac	3/1/2013		8,110.0	8,194.0	19137# 40/70 sd, 84028# 20/40 sd, 24860# 20/40 CRC, Slick Water			3139.00		
6,850.1	5,839.7	91.0				Frac	3/1/2013		8,310.0	8,384.0	17718# 40/70 sd, 81487# 20/40 sd, 18579# 20/40 CRC, Slick Water			3103.00		
7,000.0	5,836.6	91.3				Frac	3/1/2013		8,500.0	8,584.0	16685# 40/70 sd, 83104# 20/40 sd, 18768# 20/40 CRC, Slick Water			3102.00		
7,178.8	5,831.3	91.5				Frac	3/1/2013		8,690.0	8,774.0	17549# 40/70 sd, 82175# 20/40 sd, 19305# 20/40 CRC, Slick Water			3076.00		
7,330.1	5,829.4	90.6				Frac	3/1/2013		8,890.0	8,964.0	19167# 40/70 sd, 83025# 20/40 sd, 24327# 20/40 CRC, Slick Water			3302.00		
7,470.1	5,827.8	90.3				Frac	3/1/2013		9,080.0	9,164.0	21212# 40/70 sd, 81371# 20/40 sd, 18970# 20/40 CRC, Slick Water			3155.00		
7,653.9	5,826.0	90.0				Frac	3/1/2013		9,270.0	9,354.0	19974# 40/70 sd, 82220# 20/40 sd, 21379# 20/40 CRC, Slick Water			3290.00		
7,799.9	5,826.4	89.6				Frac	3/1/2013		9,470.0	9,544.0	18752# 40/70 sd, 85532# 20/40 sd, 24713# 20/40 CRC, Slick Water			3198.00		
7,919.9	5,829.0	88.4				Frac	3/1/2013		9,660.0	9,734.0	19512# 40/70 sd, 84959# 20/40 sd, 24387# 20/40 CRC, Slick Water			3230.00		
8,084.3	5,833.9	90.2				Frac	2/28/2013		9,850.0	9,934.0	18605# 40/70 sd, 84026# 20/40 sd, 19619# 20/40 CRC, Slick Water			3286.00		
8,190.0	5,830.8	92.1				Frac	2/28/2013		10,040.0	10,124.0	18297# 40/70 sd, 85654# 20/40 sd, 20077# 20/40 CRC, Slick Water			3237.00		
8,310.0	5,827.4	90.4				Frac	2/28/2013		10,240.0	10,314.0	17618# 40/70 sd, 83454# 20/40 sd, 19163# 20/40 CRC, Slick Water			3049.00		
8,469.8	5,825.9	90.7				Frac	2/28/2013		10,430.0	10,514.0	18849# 40/70 sd, 85231# 20/40 sd, 23108# 20/40 CRC, Slick Water			3303.00		
8,580.1	5,823.3	91.4				Frac	2/27/2013		10,620.0	10,704.0	20249# 40/70 sd, 84861# 20/40 sd, 24788# 20/40 CRC, Slick Water			3353.00		
8,690.0	5,823.6	89.5				Frac	2/27/2013		10,820.0	10,894.0	20497# 40/70 sd, 86021# 20/40 sd, 22180# 20/40 CRC, Slick Water			3301.00		
8,855.0	5,824.1	88.3				Frac	2/27/2013		11,010.0	11,094.0	19973# 40/70 sd, 85825# 20/40 sd, 21668# 20/40 CRC, Slick Water			3285.00		
8,960.0	5,828.9	87.2				Frac	2/27/2013		11,200.0	11,284.0	19621# 40/70 sd, 86644# 20/40 sd, 18713# 20/40 CRC, Slick Water			3274.00		
9,080.1	5,833.1	89.0														
9,240.5	5,830.3	91.4														
9,350.1	5,828.4	90.4														
9,470.1	5,825.9	91.9														
9,625.3	5,820.8	91.1														
9,730.0	5,820.0	89.6														
9,850.1	5,822.3	88.5														
10,010.8	5,828.7	89.1														
10,120.1	5,830.0	89.9														
10,240.2	5,828.9	90.2														
10,396.0	5,825.7	91.3														
10,509.8	5,823.1	90.9														
10,620.1	5,821.4	90.8														
10,781.5	5,820.1	89.8														
10,890.1	5,817.9	91.6														
11,009.8	5,814.9	91.4														
11,166.7	5,811.7	91.0														
11,279.9	5,810.7	89.7														
11,399.9	5,811.1	90.3														
11,551.5	5,810.8	90.0														
11,669.9	5,810.0	90.3														
11,779.9	5,810.4	89.2														
11,936.7	5,813.8	88.1														
12,049.9	5,816.9	88.8														
12,169.9	5,815.2	91.7														
12,321.9	5,811.4	91.4														
12,382.9	5,809.8	91.7														
12,515.4	5,805.3	92.2														



Lease Review All
Well Name: RAZOR 22-2712H

API Number 051233625700			WPC ID 1CO076865			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld			State CO
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,849.50		Ground Elevation (ft) 4,833.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,568.0		
Original Spud Date 1/16/2013		Completion Date 3/7/2013		Asset Group Central Rockies Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 330.0		N/S Ref FNL	E/W Dist (ft) 660.0		E/W Ref FWL
Lot		Quarter 1 NW	Quarter 2 NW	Quarter 3	Quarter 4	Section 22	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 58	E/W Dir W	Meridian		

Lateral/Horizontal - Original Hole, 6/4/2013 2:48:32 PM					Stim/Treat Stages					
MD (ftKB)	TV D (ftKB B)	In cl (°)	Vertical schematic (actual)	Logs	Stage Type	Start Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pump (bbl)
20.0	20.0	0.9			Frac	2/27/2013	11,400.0	11,474.0	19997# 40/70 sd, 85174# 20/40 sd, 29906# 20/40 CRC, Slick Water	3314.00
1,613.8	1,613.3	2.8		Frac	2/27/2013	11,590.0	11,674.0	14792# 40/70 sd, 84474# 20/40 sd, 20591# 20/40 CRC, Slick Water	3342.00	
4,968.8	4,967.6	1.0		Frac	2/27/2013	11,780.0	11,864.0	16637# 40/70 sd, 86739# 20/40 sd, 20233# 20/40 CRC, Slick Water	3387.00	
4,984.9	4,983.7	1.0		Frac	2/26/2013	11,990.0	12,054.0	16944# 40/70 sd, 82076# 20/40 sd, 22298# 20/40 CRC, Slick Water	3413.00	
6,044.0	5,833.7	78.2		Frac	2/26/2013	12,170.0	12,244.0	12252# 40/70 sd, 76592# 20/40 sd, 19797# 20/40 CRC, Slick Water	3453.00	
6,133.9	5,842.9	89.0		Frac	2/26/2013	12,379.0	12,439.0	38705# 40/70 sd, 84749# 20/40 sd, 19729# 20/40 CRC, Slick Water	5551.00	
6,228.3	5,843.4	90.0		Tubing - Production set at 4,985.0ftKB on 4/20/2013 00:00						
6,370.1	5,841.4	91.7		Set Depth (ftKB)	Comment				Run Date	Pull Date
6,490.2	5,839.8	90.1		4,985.0					4/20/2013	
6,703.7	5,841.2	89.2		Item Des	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)	
6,850.1	5,839.7	91.0		Tubing	2 7/8	2.441	4,958.00	0.7	4,958.7	
7,000.0	5,835.6	91.3		Tubing	2 7/8	2.441	6.00	4,958.7	4,964.7	
7,178.8	5,831.3	91.5		Jet Pump	2 7/8	2.441	4.00	4,964.7	4,968.7	
7,330.1	5,829.4	90.6		Tubing	2 7/8	2.441	6.00	4,968.7	4,974.7	
7,470.1	5,827.8	90.3		Packer	6.18	2.441	4.00	4,974.7	4,978.7	
7,653.9	5,826.0	90.0		Tubing	2 7/8	2.441	6.00	4,978.7	4,984.7	
7,799.9	5,826.4	89.6		Barred Collar	2 7/8	2.441	0.30	4,984.7	4,985.0	
7,919.9	5,829.0	88.4		<des> on <dtmrun>						
8,084.3	5,833.9	90.2		Rod Description				Run Date	Pull Date	
8,190.0	5,830.8	92.1		Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)		
8,310.0	5,827.4	90.4								
8,469.8	5,825.9	90.7		Other String Components						
8,580.1	5,823.3	91.4		Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)		
8,690.0	5,823.6	89.5								
8,855.0	5,824.1	88.3		Other In Hole						
8,960.0	5,828.9	87.2	Des	OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)		
9,080.1	5,833.1	89.0	CFP	4	3/3/2013	3/6/2013	6,190.0	6,192.0		
9,240.5	5,830.3	91.4	CFP	4	3/2/2013	3/5/2013	6,420.0	6,422.0		
9,350.1	5,828.4	90.4	CFP	4	3/2/2013	3/5/2013	6,660.0	6,662.0		
9,470.1	5,825.9	91.9	CFP	4	3/2/2013	3/5/2013	6,900.0	6,902.0		
9,625.3	5,820.8	91.1	CFP	4	3/2/2013	3/5/2013	7,140.0	7,142.0		
9,730.0	5,820.0	89.6	CFP	4	3/2/2013	3/5/2013	7,380.0	7,382.0		
9,850.1	5,822.3	88.5	CFP	4	3/2/2013	3/5/2013	7,620.0	7,622.0		
10,010.8	5,828.7	89.1	CFP	4	3/2/2013	3/5/2013	7,850.0	7,852.0		
10,120.1	5,830.0	89.9	CFP	4	3/2/2013	3/5/2013	8,040.0	8,042.0		
10,240.2	5,828.9	90.2	CFP	4	3/2/2013	3/5/2013	8,240.0	8,242.0		
10,396.0	5,825.7	91.3	CFP	4	3/1/2013	3/4/2013	8,430.0	8,432.0		
10,509.8	5,823.1	90.9	CFP	4	3/1/2013	3/4/2013	8,630.0	8,632.0		
10,620.1	5,821.4	90.8	CFP	4	3/1/2013	3/4/2013	8,820.0	8,822.0		
10,781.5	5,820.1	89.8	CFP	4	3/1/2013	3/4/2013	9,010.0	9,012.0		
10,890.1	5,817.9	91.6	CFP	4	3/1/2013	3/4/2013	9,210.0	9,212.0		
11,009.8	5,814.9	91.4	CFP	4	3/1/2013	3/4/2013	9,400.0	9,402.0		
11,166.7	5,811.7	91.0	CFP	4	3/1/2013	3/4/2013	9,590.0	9,592.0		
11,279.9	5,810.7	89.7	CFP	4	3/1/2013	3/4/2013	9,780.0	9,782.0		
11,399.9	5,811.1	90.3	CFP	4	2/28/2013	3/4/2013	9,980.0	9,982.0		
11,551.5	5,810.8	90.0	CFP	4	2/28/2013	3/4/2013	9,980.0	9,982.0		
11,669.9	5,810.0	90.3	CFP	4	2/28/2013	3/4/2013	10,170.0	10,172.0		
11,779.9	5,810.4	89.2	CFP	4	2/28/2013	3/4/2013	10,360.0	10,362.0		
11,936.7	5,813.8	88.1	CFP	4	2/28/2013	3/4/2013	10,560.0	10,562.0		
12,049.9	5,816.9	88.8	CFP	4	2/28/2013	3/4/2013	10,750.0	10,752.0		
12,169.9	5,815.2	91.7	CFP	4	2/28/2013	3/4/2013	10,940.0	10,942.0		
12,321.9	5,811.4	91.4	CFP	4	2/28/2013	3/4/2013	11,140.0	11,142.0		
12,382.9	5,809.8	91.7	CFP	4	2/27/2013	3/4/2013	11,330.0	11,332.0		
12,515.4	5,805.3	92.2	CFP	4	2/27/2013	3/4/2013	11,520.0	11,522.0		
Bottom Hole Cores										
Date		Core #		Top (ftKB)		Btm (ftKB)		Recov (ft)		