



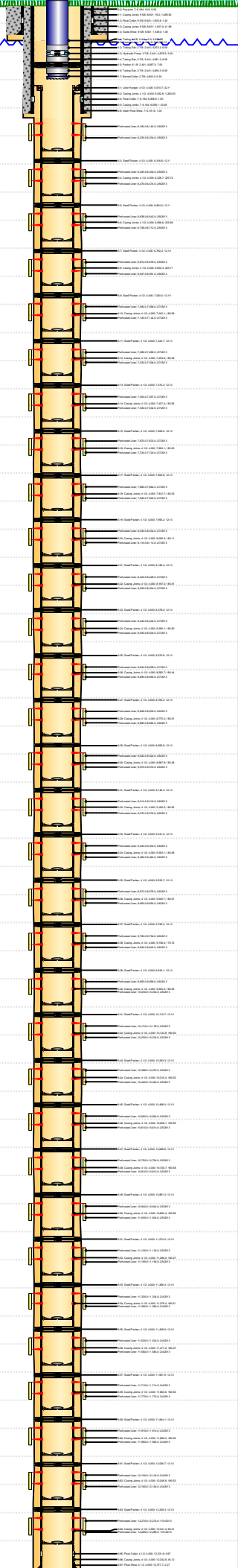
Lease Review All
Well Name: RAZOR 27-3414H

API Number 051233613000			WPC ID 1CO076862			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld			State CO	
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,771.50		Ground Elevation (ft) 4,755.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)			Total Depth (ftKB) 12,390.0		
Original Spud Date 1/1/2013		Completion Date 2/13/2013		Asset Group Central Rockies Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 2,322.0		N/S Ref FSL		E/W Dist (ft) 660.0		E/W Ref FWL
Lot		Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian			

Lateral/Horizontal - Original Hole, 5/23/2013 2:17:10 PM					Wellbore Sections						
MD (ftKB)	TV D (ftK B)	In cl (°)	Vertical schematic (actual)	Logs	Wellbore Name		Start Date	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
					Original Hole		1/1/2013	13 1/2	16.5	1,560.0	
					Original Hole		1/3/2013	8 3/4	1,560.0	6,112.0	
					Original Hole		1/6/2013	6	6,112.0	12,390.0	
Surface Csg, 1,550.0ftKB											
OD (in)		Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des				
9 5/8		36.00	J-55	16.3	1,505.8	1,489.50	Casing Joints				
9 5/8		36.00	J-55	1,505.8	1,507.0	1.20	Float Collar				
9 5/8		36.00	J-55	1,507.0	1,549.0	41.99	Casing Joints				
9 5/8		36.00	J-55	1,549.0	1,550.0	1.00	Guide Shoe				
Intermediate Csg, 6,102.6ftKB											
OD (in)		Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des				
7		29.00	P-110	16.5	16.5	0.00	Landing Joint				
7		29.00	P-110	16.5	21.5	5.00	Pup joint				
7		29.00	P-110	21.5	6,056.6	6,035.12	Casing Joints				
7		29.00	P-110	6,056.6	6,058.1	1.50	Float Collar				
7		29.00	P-110	6,058.1	6,101.6	43.48	Casing Joints				
7				6,101.6	6,102.6	1.00	Insert Float Shoe				
Liner, 12,380.0ftKB											
OD (in)		Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des				
4 1/2		11.60	L-80	5,010.7	5,052.8	42.11	Liner Hanger				
4 1/2		11.60	L-80	5,052.8	6,316.6	1,263.83	Casing Joints				
4 1/2		11.60	L-80	6,316.6	6,328.7	12.11	Swell Packer				
4 1/2		11.60	L-80	6,328.7	6,554.5	225.72	Casing Joints				
4 1/2		11.60	L-80	6,554.5	6,566.6	12.11	Swell Packer				
4 1/2		11.60	L-80	6,566.6	6,792.2	225.66	Casing Joints				
4 1/2		11.60	L-80	6,792.2	6,804.3	12.10	Swell Packer				
4 1/2		11.60	L-80	6,804.3	7,030.0	225.71	Casing Joints				
4 1/2		11.60	L-80	7,030.0	7,042.1	12.10	Swell Packer				
4 1/2		11.60	L-80	7,042.1	7,222.7	180.59	Casing Joints				
4 1/2		11.60	L-80	7,222.7	7,234.8	12.10	Swell Packer				
4 1/2		11.60	L-80	7,234.8	7,415.3	180.49	Casing Joints				
4 1/2		11.60	L-80	7,415.3	7,427.4	12.10	Swell Packer				
4 1/2		11.60	L-80	7,427.4	7,608.0	180.55	Casing Joints				
4 1/2		11.60	L-80	7,608.0	7,620.1	12.10	Swell Packer				
4 1/2		11.60	L-80	7,620.1	7,800.6	180.50	Casing Joints				
4 1/2		11.60	L-80	7,800.6	7,812.7	12.10	Swell Packer				
4 1/2		11.60	L-80	7,812.7	7,993.2	180.53	Casing Joints				
4 1/2		11.60	L-80	7,993.2	8,005.3	12.10	Swell Packer				
4 1/2		11.60	L-80	8,005.3	8,185.4	180.11	Casing Joints				
4 1/2		11.60	L-80	8,185.4	8,197.5	12.10	Swell Packer				
4 1/2		11.60	L-80	8,197.5	8,378.0	180.51	Casing Joints				
4 1/2		11.60	L-80	8,378.0	8,390.1	12.10	Swell Packer				
4 1/2		11.60	L-80	8,390.1	8,570.6	180.50	Casing Joints				
4 1/2		11.60	L-80	8,570.6	8,582.7	12.10	Swell Packer				
4 1/2		11.60	L-80	8,582.7	8,763.2	180.44	Casing Joints				
4 1/2		11.60	L-80	8,763.2	8,775.3	12.10	Swell Packer				
4 1/2		11.60	L-80	8,775.3	8,955.8	180.51	Casing Joints				
4 1/2		11.60	L-80	8,955.8	8,967.9	12.10	Swell Packer				
4 1/2		11.60	L-80	8,967.9	9,148.4	180.48	Casing Joints				
4 1/2		11.60	L-80	9,148.4	9,160.5	12.10	Swell Packer				
4 1/2		11.60	L-80	9,160.5	9,341.0	180.52	Casing Joints				
4 1/2		11.60	L-80	9,341.0	9,353.1	12.10	Swell Packer				
4 1/2		11.60	L-80	9,353.1	9,533.7	180.58	Casing Joints				
4 1/2		11.60	L-80	9,533.7	9,545.8	12.10	Swell Packer				
4 1/2		11.60	L-80	9,545.8	9,726.3	180.51	Casing Joints				
4 1/2		11.60	L-80	9,726.3	9,738.4	12.10	Swell Packer				
4 1/2		11.60	L-80	9,738.4	9,918.1	179.72	Casing Joints				
4 1/2		11.60	L-80	9,918.1	9,930.2	12.10	Swell Packer				
4 1/2		11.60	L-80	9,930.2	10,110.7	180.55	Casing Joints				
4 1/2		11.60	L-80	10,110.7	10,122.8	12.10	Swell Packer				
4 1/2		11.60	L-80	10,122.8	10,303.3	180.50	Casing Joints				
4 1/2		11.60	L-80	10,303.3	10,315.4	12.10	Swell Packer				
4 1/2		11.60	L-80	10,315.4	10,496.0	180.53	Casing Joints				
4 1/2		11.60	L-80	10,496.0	10,508.1	12.10	Swell Packer				
4 1/2		11.60	L-80	10,508.1	10,688.6	180.55	Casing Joints				
4 1/2		11.60	L-80	10,688.6	10,700.7	12.10	Swell Packer				
4 1/2		11.60	L-80	10,700.7	10,881.3	180.58	Casing Joints				
4 1/2		11.60	L-80	10,881.3	10,893.4	12.10	Swell Packer				
4 1/2		11.60	L-80	10,893.4	11,074.0	180.56	Casing Joints				
4 1/2		11.60	L-80	11,074.0	11,086.1	12.10	Swell Packer				
4 1/2		11.60	L-80	11,086.1	11,266.3	180.27	Casing Joints				



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Well Configuration Type Lateral/Horizontal						Orig KB Elv (ft) 4,771.50			Ground Elevation (ft) 4,755.00			Casing Flange Elevation (ft)			Tubing Head Elevation (ft)			Total Depth (ftKB) 12,390.0																			
Original Spud Date 1/1/2013			Completion Date 2/13/2013			Asset Group Central Rockies Asset Group				Responsible Engineer Gary Nordlander				N/S Dist (ft) 2,322.0		N/S Ref FSL		E/W Dist (ft) 660.0		E/W Ref FWL																	
Lot		Quarter 1 NW		Quarter 2 SW		Quarter 3		Quarter 4		Section 27		Section Suffix		Section Type		Township 10 N		Township N/S Dir		Range 58 W		Range E/W Dir		Meridian													
Lateral/Horizontal - Original Hole, 5/23/2013 2:17:12 PM																																					
		TV D (ftKB)		In cl (°)		Vertical schematic (actual)										Logs								OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des	
MD (ftKB)																								4 1/2		11.60		L-80		11,266.3		11,278.4		12.10		Swell Packer	
																								4 1/2		11.60		L-80		11,278.4		11,458.9		180.51		Casing Joints	
1,506.9		1,506.2		1.6																				4 1/2		11.60		L-80		11,458.9		11,471.0		12.10		Swell Packer	
4,878.3		4,876.4		1.1																				4 1/2		11.60		L-80		11,471.0		11,651.5		180.47		Casing Joints	
4,900.6		4,898.7		1.1																				4 1/2		11.60		L-80		11,651.5		11,663.6		12.10		Swell Packer	
6,101.7		6,124.3		88.9																				4 1/2		11.60		L-80		11,663.6		11,844.1		180.50		Casing Joints	
6,230.0		6,224.6		90.6																				4 1/2		11.60		L-80		11,844.1		11,856.2		12.10		Swell Packer	
6,328.7		6,223.0		90.7																				4 1/2		11.60		L-80		11,856.2		12,036.7		180.50		Casing Joints	
6,520.0		6,222.7		90.3																				4 1/2		11.60		L-80		12,036.7		12,048.8		12.10		Swell Packer	
6,642.1		6,221.1		90.8																				4 1/2		11.60		L-80		12,048.8		12,229.3		180.53		Casing Joints	
6,792.3		6,220.3		90.4																				4 1/2		11.60		L-80		12,229.3		12,241.4		12.10		Swell Packer	
6,951.1		6,219.5		90.4																				4 1/2		11.60		L-80		12,241.4		12,331.6		90.21		Casing Joints	
7,091.9		6,218.4		89.3																				4 1/2						12,331.6		12,332.6		0.97		Float Collar	
7,191.9		6,218.3		91.0																				4 1/2		11.60		L-80		12,332.6		12,377.7		45.12		Casing Joints	
7,332.0		6,220.5		90.7																				4 1/2						12,377.7		12,380.0		2.27		Float Shoe	
7,427.5		6,221.0		88.2																																	
7,580.1		6,225.3		89.1																																	
7,673.9		6,226.7		89.1																																	
7,800.5		6,227.8		90.0																																	
7,923.9		6,228.6		89.5																																	
8,029.9		6,227.7		91.5																																	
8,162.1		6,227.5		89.8																																	
8,299.9		6,227.2		90.2																																	
8,390.1		6,226.9		90.0																																	
8,540.0		6,226.6		90.9																																	
8,638.1		6,225.3		89.8																																	
8,763.1		6,227.0		89.4																																	
8,883.9		6,228.3		90.2																																	
9,020.0		6,227.7		91.2																																	
9,122.0		6,225.2		91.7																																	
9,270.0		6,222.0		90.2																																	
9,353.0		6,221.4		90.3																																	
9,500.0		6,217.4		92.6																																	
9,576.1		6,215.6		90.7																																	
9,726.4		6,213.4		90.3																																	
9,844.2		6,212.9		89.2																																	
9,955.1		6,214.3		89.5																																	
10,082.0		6,214.6		90.5																																	
10,230.0		6,212.6		89.0																																	
10,315.3		6,214.7		88.7																																	
10,470.1		6,216.8		89.9																																	
10,564.0		6,216.2		90.8																																	
10,688.6		6,214.9		89.9																																	
10,814.0		6,215.1		90.2																																	
10,940.0		6,213.6		90.1																																	
11,042.0		6,213.5		89.7																																	
11,190.0		6,214.2		90.0																																	
11,278.5		6,213.5		90.5																																	
11,430.1		6,214.0		90.1																																	
11,523.9		6,213.5		90.4																																	
11,651.6		6,212.3		92.0																																	
11,773.9		6,207.9		92.0																																	
11,910.1		6,207.9		89.2																																	
12,012.1		6,209.3		89.1																																	
12,160.1		6,212.4		89.2																																	
12,241.5		6,213.2		89.9																																	
12,314.0		6,213.4		90.0																																	
12,379.9		6,213.3		90.1																																	



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API Number 051233613000		WPC ID 1CO076862		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,771.50		Ground Elevation (ft) 4,755.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,390.0	
Original Spud Date 1/1/2013		Completion Date 2/13/2013		Asset Group Central Rockies Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 2,322.0		N/S Ref FSL	
E/W Dist (ft) 660.0		E/W Ref FWL		Lot		Quarter 1 NW		Quarter 2 SW		Quarter 3	
Quarter 4		Section 27		Section Suffix		Section Type		Township 10 N		Range 58 W	

Lateral/Horizontal - Original Hole, 5/23/2013 2:17:15 PM					Perforations				
	TV D (ftKB)	In cl (°)	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
MD (ftKB)					Perforated Liner	2/6/2013	8,880.0	8,884.0	Niobrara, Original Hole
1,506.9	1,506.2	1.6			Perforated Liner	2/6/2013	9,020.0	9,024.0	Niobrara, Original Hole
4,878.3	4,876.4	1.1			Perforated Liner	2/6/2013	9,070.0	9,074.0	Niobrara, Original Hole
4,900.6	4,898.7	1.1			Perforated Liner	2/6/2013	9,214.0	9,218.0	Niobrara, Original Hole
6,101.7	5,724.3	88.9			Perforated Liner	2/6/2013	9,270.0	9,274.0	Niobrara, Original Hole
6,230.0	5,724.6	90.6			Perforated Liner	2/6/2013	9,400.0	9,404.0	Niobrara, Original Hole
6,328.7	5,723.0	90.7			Perforated Liner	2/6/2013	9,460.0	9,464.0	Niobrara, Original Hole
6,520.0	5,722.7	90.3			Perforated Liner	2/6/2013	9,572.0	9,576.0	Niobrara, Original Hole
6,642.1	5,721.1	90.8			Perforated Liner	2/6/2013	9,650.0	9,654.0	Niobrara, Original Hole
6,792.3	5,720.3	90.4			Perforated Liner	2/6/2013	9,790.0	9,794.0	Niobrara, Original Hole
6,951.1	5,719.5	90.4			Perforated Liner	2/6/2013	9,840.0	9,844.0	Niobrara, Original Hole
7,091.9	5,721.4	89.3			Perforated Liner	2/6/2013	9,955.0	9,959.0	Niobrara, Original Hole
7,191.9	5,721.3	91.0			Perforated Liner	2/6/2013	10,030.0	10,034.0	Niobrara, Original Hole
7,332.0	5,720.5	90.7			Perforated Liner	2/6/2013	10,174.0	10,178.0	Niobrara, Original Hole
7,427.5	5,721.0	88.2			Perforated Liner	2/6/2013	10,230.0	10,234.0	Niobrara, Original Hole
7,580.1	5,725.3	89.1			Perforated Liner	2/6/2013	10,368.0	10,372.0	Niobrara, Original Hole
7,673.9	5,726.7	89.1			Perforated Liner	2/6/2013	10,420.0	10,424.0	Niobrara, Original Hole
7,800.5	5,727.8	90.0			Perforated Liner	2/6/2013	10,560.0	10,564.0	Niobrara, Original Hole
7,923.9	5,728.6	89.5			Perforated Liner	2/5/2013	10,610.0	10,614.0	Niobrara, Original Hole
8,029.9	5,727.7	91.5			Perforated Liner	2/5/2013	10,750.0	10,754.0	Niobrara, Original Hole
8,162.1	5,727.5	89.8			Perforated Liner	2/5/2013	10,810.0	10,814.0	Niobrara, Original Hole
8,299.9	5,727.2	90.2			Perforated Liner	2/5/2013	10,940.0	10,944.0	Niobrara, Original Hole
8,390.1	5,726.9	90.0			Perforated Liner	2/5/2013	11,000.0	11,004.0	Niobrara, Original Hole
8,540.0	5,726.6	90.9			Perforated Liner	2/5/2013	11,130.0	11,134.0	Niobrara, Original Hole
8,638.1	5,725.3	89.8			Perforated Liner	2/5/2013	11,190.0	11,194.0	Niobrara, Original Hole
8,763.1	5,727.0	89.4			Perforated Liner	2/5/2013	11,330.0	11,334.0	Niobrara, Original Hole
8,883.9	5,728.3	90.2			Perforated Liner	2/5/2013	11,380.0	11,384.0	Niobrara, Original Hole
9,020.0	5,727.7	91.2			Perforated Liner	2/5/2013	11,520.0	11,524.0	Niobrara, Original Hole
9,122.0	5,725.2	91.7			Perforated Liner	2/5/2013	11,580.0	11,584.0	Niobrara, Original Hole
9,270.0	5,722.0	90.2			Perforated Liner	2/5/2013	11,710.0	11,714.0	Niobrara, Original Hole
9,353.0	5,721.4	90.3			Perforated Liner	2/5/2013	11,770.0	11,774.0	Niobrara, Original Hole
9,500.0	5,717.4	92.6			Perforated Liner	2/5/2013	11,910.0	11,914.0	Niobrara, Original Hole
9,576.1	5,715.6	90.7			Perforated Liner	2/5/2013	11,960.0	11,964.0	Niobrara, Original Hole
9,726.4	5,713.4	90.3			Perforated Liner	2/5/2013	12,100.0	12,104.0	Niobrara, Original Hole
9,844.2	5,712.9	89.2			Perforated Liner	2/5/2013	12,160.0	12,164.0	Niobrara, Original Hole
9,955.1	5,714.3	89.5			Perforated Liner	2/4/2013	12,270.0	12,274.0	Niobrara, Original Hole
10,082.0	5,714.6	90.5			Perforated Liner	2/4/2013	12,285.0	12,289.0	Niobrara, Original Hole
10,230.0	5,712.6	89.0			Perforated Liner	2/4/2013			
10,315.3	5,714.7	88.7			Perforated Liner	2/4/2013			
10,470.1	5,716.8	89.9			Perforated Liner	2/4/2013			
10,564.0	5,716.2	90.8			Perforated Liner	2/4/2013			
10,688.6	5,714.9	89.9			Perforated Liner	2/4/2013			
10,814.0	5,715.1	90.2			Perforated Liner	2/4/2013			
10,940.0	5,713.6	90.1			Perforated Liner	2/4/2013			
11,042.0	5,713.5	89.7			Perforated Liner	2/4/2013			
11,190.0	5,714.2	90.0			Perforated Liner	2/4/2013			
11,278.5	5,713.5	90.5			Perforated Liner	2/4/2013			
11,430.1	5,714.0	90.1			Perforated Liner	2/4/2013			
11,523.9	5,713.5	90.4			Perforated Liner	2/4/2013			
11,651.6	5,712.3	92.0			Perforated Liner	2/4/2013			
11,773.9	5,707.9	92.0			Perforated Liner	2/4/2013			
11,910.1	5,707.9	89.2			Perforated Liner	1/31/2013			
12,012.1	5,709.3	89.1			Perforated Liner	1/31/2013			
12,160.1	5,712.4	89.2			Perforated Liner				
12,241.5	5,713.2	89.9			Perforated Liner				
12,314.0	5,713.4	90.0			Perforated Liner				
12,379.9	5,713.3	90.1			Perforated Liner				



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Well Name: RAZOR 27-3414H

API Number 051233613000			WPC ID 1CO076862			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld			State CO			
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,771.50		Ground Elevation (ft) 4,755.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)			Total Depth (ftKB) 12,390.0				
Original Spud Date 1/1/2013		Completion Date 2/13/2013		Asset Group Central Rockies Asset Group				Responsible Engineer Gary Nordlander			N/S Dist (ft) 2,322.0		N/S Ref FSL		E/W Dist (ft) 660.0		E/W Ref FWL	
Lot		Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type		Township 10 N	Township N/S Dir	Range 58	Range E/W Dir W		Meridian			

Lateral/Horizontal - Original Hole, 5/23/2013 2:17:18 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)
1,506.9	1,506.2	1.6				Frac	2/8/2013	6,160.0	6,234.0	19252# 40/70, 85573# 20/40, 39235# CRC 20/40, Slick Water	2995.00
4,878.3	4,876.4	1.1				Frac	2/8/2013	6,400.0	6,474.0	20000# 40/70, 80046# 20/40, 15578# CRC 20/40, Slick Water	3128.00
4,900.6	4,888.7	1.1				Frac	2/8/2013	6,638.0	6,712.0	18419# 40/70, 91187# 20/40, 19704# CRC 20/40, Slick Water	3007.00
6,101.7	5,724.3	88.9				Frac	2/8/2013	6,874.0	6,951.0	19331# 40/70, 88045# 20/40, 18158# CRC 20/40, Slick Water	3087.00
6,230.0	5,724.6	90.6				Frac	2/7/2013	7,092.0	7,144.0	20495# 40/70, 92932# 20/40, 19686# CRC 20/40, Slick Water	3008.00
6,328.7	5,723.0	90.7				Frac	2/7/2013	7,285.0	7,336.0	22834# 40/70, 94249# 20/40, 22240# CRC 20/40, Slick Water	3052.00
6,520.0	5,722.7	90.3				Frac	2/7/2013	7,453.0	7,534.0	24901# 40/70, 88036# 20/40, 19536# CRC 20/40, Slick Water	3032.00
6,642.1	5,721.1	90.8				Frac	2/7/2013	7,670.0	7,724.0	21179# 40/70, 84506# 20/40, 19941# CRC 20/40, Slick Water	3140.00
6,792.3	5,720.3	90.4				Frac	2/7/2013	7,860.0	7,924.0	22228# 40/70, 90642# 20/40, 18861# CRC 20/40, Slick Water	3079.00
6,951.1	5,719.5	90.4				Frac	2/7/2013	8,030.0	8,114.0	18856# 40/70, 85469# 20/40, 20976# CRC 20/40, Slick Water	3198.00
7,091.9	5,721.4	89.3				Frac	2/7/2013	8,224.0	8,304.0	18932# 40/70, 88647# 20/40, 20298# CRC 20/40, Slick Water	3089.00
7,191.9	5,721.3	91.0				Frac	2/7/2013	8,440.0	8,504.0	28384# 40/70, 89809# 20/40, 20309# CRC 20/40, Slick Water	3127.00
7,332.0	5,720.5	90.7				Frac	2/7/2013	8,634.0	8,694.0	20138# 40/70, 87501# 20/40, 19090# CRC 20/40, Slick Water	3127.00
7,427.5	5,721.0	88.2				Frac	2/6/2013	8,828.0	8,884.0	18634# 40/70, 86107# 20/40, 21014# CRC 20/40, Slick Water	3153.00
7,580.1	5,725.3	89.1				Frac	2/6/2013	9,020.0	9,074.0	20059# 40/70, 90225# 20/40, 20029# CRC 20/40, Slick Water	3152.00
7,673.9	5,726.7	89.1				Frac	2/6/2013	9,214.0	9,274.0	21342# 40/70, 94274# 20/40, 20478# CRC 20/40, Slick Water	3182.00
7,800.5	5,727.8	90.0				Frac	2/6/2013	9,400.0	9,464.0	19227# 40/70, 95975# 20/40, 18684# CRC 20/40, Slick Water	3183.00
7,923.9	5,728.6	89.5				Frac	2/6/2013	9,572.0	9,654.0	22262# 40/70, 98932# 20/40, 19304# CRC 20/40, Slick Water	3200.00
8,029.9	5,727.7	91.5				Frac	2/6/2013	9,790.0	9,844.0	23041# 40/70, 101275# 20/40, 19427# CRC 20/40, Slick Water	3201.00
8,162.1	5,727.5	89.8				Frac	2/6/2013	9,955.0	10,034.0	22067# 40/70, 98798# 20/40, 21042# CRC 20/40, Slick Water	3251.00
8,299.9	5,727.2	90.2				Frac	2/5/2013	10,174.0	10,234.0	20420# 40/70, 92264# 20/40, 19639# CRC 20/40, Slick Water	3238.00
8,390.1	5,726.9	90.0				Frac	2/5/2013	10,368.0	10,424.0	26147# 40/70, 96410# 20/40, 19184# CRC 20/40, Slick Water	4188.00
8,540.0	5,726.6	90.9				Frac	2/5/2013	10,560.0	10,614.0	23067# 40/70, 98311# 20/40, 17655# CRC 20/40, Slick Water	3274.00
8,638.1	5,725.3	89.8				Frac	2/5/2013	10,750.0	10,814.0	22422# 40/70, 95014# 20/40, 18868# CRC 20/40, Slick Water	3274.00
8,763.1	5,727.0	89.4				Frac	2/5/2013	10,940.0	11,004.0	19625# 40/70, 92690# 20/40, 19296# CRC 20/40, Slick Water	3283.00
8,883.9	5,728.3	90.2				Frac	2/5/2013	11,130.0	11,194.0	24669# 40/70, 88230# 20/40, 16091# CRC 20/40, Slick Water	3272.00
9,020.0	5,727.7	91.2									
9,122.0	5,725.2	91.7									
9,270.0	5,722.0	90.2									
9,353.0	5,721.4	90.3									
9,500.0	5,717.4	92.6									
9,576.1	5,715.6	90.7									
9,726.4	5,713.4	90.3									
9,844.2	5,712.9	89.2									
9,955.1	5,714.3	89.5									
10,082.0	5,714.6	90.5									
10,230.0	5,712.6	89.0									
10,315.3	5,714.7	88.7									
10,470.1	5,716.8	89.9									
10,564.0	5,716.2	90.8									
10,688.6	5,714.9	89.9									
10,814.0	5,715.1	90.2									
10,940.0	5,713.6	90.1									
11,042.0	5,713.5	89.7									
11,190.0	5,714.2	90.0									
11,278.5	5,713.5	90.5									
11,430.1	5,714.0	90.1									
11,523.9	5,713.5	90.4									
11,651.6	5,712.3	92.0									
11,773.9	5,707.9	92.0									
11,910.1	5,707.9	89.2									
12,012.1	5,709.3	89.1									
12,160.1	5,712.4	89.2									
12,241.5	5,713.2	89.9									
12,314.0	5,713.4	90.0									
12,379.9	5,713.3	90.1									



Lease Review All
Well Name: RAZOR 27-3414H

API Number 051233613000			WPC ID 1CO076862			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld			State CO	
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,771.50		Ground Elevation (ft) 4,755.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)			Total Depth (ftKB) 12,390.0		
Original Spud Date 1/1/2013		Completion Date 2/13/2013		Asset Group Central Rockies Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 2,322.0		N/S Ref FSL		E/W Dist (ft) 660.0		E/W Ref FWL
Lot		Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian			

Lateral/Horizontal - Original Hole, 5/23/2013 2:17:20 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)	
1,506.9	1,506.2	1.6			Frac	2/4/2013	11,330.0	11,384.0	18677# 40/70, 89339# 20/40, 16122# CRC 20/40, Slick Water	3284.00	
4,878.3	4,876.4	1.1		Frac	2/4/2013	11,520.0	11,584.0	18235# 40/70, 88448# 20/40, 17526# CRC 20/40, Slick Water	3824.00		
4,900.6	4,898.7	1.1		Frac	2/4/2013	11,710.0	11,774.0	22109# 40/70, 92715# 20/40, 20254# CRC 20/40, Slick Water	3349.00		
6,101.7	5,724.3	88.9		Frac	2/4/2013	11,910.0	11,964.0	19282# 40/70, 91443# 20/40, 18869# CRC 20/40, Slick Water	3349.00		
6,230.0	5,724.6	90.6		Frac	2/4/2013	12,100.0	12,164.0	16430# 40/70, 96607# 20/40, 20247# CRC 20/40, Slick Water	3818.00		
6,328.7	5,723.0	90.7		Frac	2/4/2013	12,270.0	12,289.0	31919# 40/70, 92311# 20/40, 18198# CRC 20/40, Slick Water	5304.00		
6,520.0	5,722.7	90.3									
6,642.1	5,721.1	90.8									
6,792.3	5,720.3	90.4									
6,951.1	5,719.5	90.4									
7,091.9	5,721.4	89.3									
7,191.9	5,721.3	91.0									
7,332.0	5,720.5	90.7									
7,427.5	5,721.0	88.2									
7,580.1	5,725.3	89.1									
7,673.9	5,726.7	89.1									
7,800.5	5,727.8	90.0									
7,923.9	5,728.6	89.5									
8,029.9	5,727.7	91.5									
8,162.1	5,727.5	89.8									
8,299.9	5,727.2	90.2									
8,390.1	5,726.9	90.0									
8,540.0	5,726.6	90.9									
8,638.1	5,725.3	89.8									
8,763.1	5,727.0	89.4									
8,883.9	5,728.3	90.2									
9,020.0	5,727.7	91.2									
9,122.0	5,725.2	91.7									
9,270.0	5,722.0	90.2									
9,353.0	5,721.4	90.3									
9,500.0	5,717.4	92.6									
9,576.1	5,715.6	90.7									
9,726.4	5,713.4	90.3									
9,844.2	5,712.9	89.2									
9,955.1	5,714.3	89.5									
10,082.0	5,714.6	90.5									
10,230.0	5,712.6	89.0									
10,315.3	5,714.7	88.7									
10,470.1	5,716.8	89.9									
10,564.0	5,716.2	90.8									
10,688.6	5,714.9	89.9									
10,814.0	5,715.1	90.2									
10,940.0	5,713.6	90.1									
11,042.0	5,713.5	89.7									
11,190.0	5,714.2	90.0									
11,278.5	5,713.5	90.5									
11,430.1	5,714.0	90.1									
11,523.9	5,713.5	90.4									
11,651.6	5,712.3	92.0									
11,773.9	5,707.9	92.0									
11,910.1	5,707.9	89.2									
12,012.1	5,709.3	89.1									
12,160.1	5,712.4	89.2									
12,241.5	5,713.2	89.9									
12,314.0	5,713.4	90.0									
12,379.9	5,713.3	90.1									
Tubing set at 4,900.6ftKB on 4/3/2013 12:00											
Set Depth (ftKB)		Comment		Run Date		Pull Date					
4,900.6				4/3/2013							
Item Des		OD (in)		ID (in)		Len (ft)		Top (ftKB)		Btm (ftKB)	
Tubing		2 7/8		2.441		4,872.56		-0.3		4,872.3	
Tubing Sub		2 7/8		2.441		6.00		4,872.3		4,878.3	
Hydraulic Pump		2 7/8		2.441		3.00		4,878.3		4,881.3	
Tubing Sub		2 7/8		2.441		6.00		4,881.3		4,887.3	
Packer		6 1/8		2.441		7.00		4,887.3		4,894.3	
Tubing Sub		2 7/8		2.441		6.00		4,894.3		4,900.3	
Barred Collar		2 7/8				0.30		4,900.3		4,900.6	
<des> on <dtmrun>											
Rod Description				Run Date		Pull Date					
Item Des		OD (in)		Len (ft)		Top (ftKB)		Btm (ftKB)			
Other String Components											
Item Des		OD (in)		Len (ft)		Top (ftKB)		Btm (ftKB)			
Other In Hole											
Des		OD (in)		Run Date		Pull Date		Top (ftKB)		Btm (ftKB)	
CFP		4		2/8/2013				6,290.0		6,292.0	
CFP		4		2/8/2013				6,520.0		6,522.0	
CFP		4		2/8/2013				6,760.0		6,762.0	
CFP		4		2/8/2013				7,000.0		7,002.0	
CFP		4		2/7/2013				7,190.0		7,192.0	
CFP		4		2/7/2013				7,380.0		7,382.0	
CFP		4		2/7/2013				7,580.0		7,582.0	
CFP		4		2/7/2013				7,770.0		7,772.0	
CFP		4		2/7/2013				7,960.0		7,962.0	
CFP		4		2/7/2013				8,160.0		8,162.0	
CFP		4		2/7/2013				8,350.0		8,352.0	
CFP		4		2/7/2013				8,540.0		8,542.0	
CFP		4		2/7/2013				8,730.0		8,732.0	
CFP		4		2/6/2013				8,920.0		8,922.0	
CFP		4		2/6/2013				9,120.0		9,122.0	
CFP		4		2/6/2013				9,310.0		9,312.0	
CFP		4		2/6/2013				9,500.0		9,502.0	
CFP		4		2/6/2013				9,700.0		9,702.0	
CFP		4		2/6/2013				9,890.0		9,892.0	
CFP		4		2/6/2013				10,080.0		10,082.0	
CFP		4		2/5/2013				10,270.0		10,272.0	
CFP		4		2/5/2013				10,470.0		10,472.0	
CFP		4		2/5/2013				10,660.0		10,662.0	
CFP		4		2/5/2013				10,850.0		10,852.0	
CFP		4		2/5/2013				11,040.0		11,042.0	
CFP		4		2/5/2013				11,240.0		11,242.0	
CFP		4		2/4/2013				11,430.0		11,432.0	
CFP		4		2/4/2013				11,620.0		11,622.0	
CFP		4		2/4/2013				11,810.0		11,812.0	
CFP		4		2/4/2013				12,010.0		12,012.0	
CFP		4		2/4/2013				12,210.0		12,212.0	
CFP		4		1/31/2013				12,314.0		12,316.0	
Bottom Hole Cores											
Date		Core #		Top (ftKB)		Btm (ftKB)		Recov (ft)			