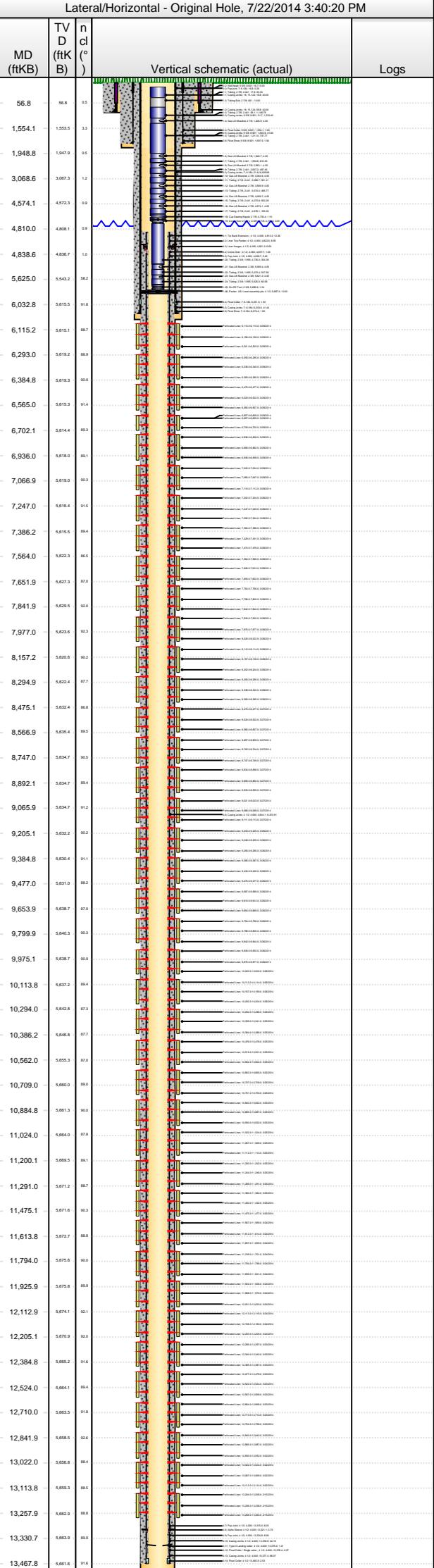




Lease Review All CR

Well Name: RAZOR 271-2215A

API Number 051233795300		WPC ID 1CO076906		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,773.30		Ground Elevation (ft) 4,756.50		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 13,478.0	
Original Spud Date 12/23/2013		Completion Date 4/16/2014		Asset Group Redtail Asset Group		Responsible Engineer Andrew Fish		N/S Dist (ft) 2,394.0		N/S Ref FSL	
E/W Dist (ft) 659.0		E/W Ref FEL		Lot		Quarter 1 NE		Quarter 2 SE		Quarter 3	
Quarter 4		Section 27		Section Suffix		Section Type		Township 10 N		Township N/S Dir Range	
Range 58		Range E/W Dir W		Meridian							



Wellbore Sections						
Wellbore Name	Start Date	Size (in)	Act Top (ftKB)	Act Btm (ftKB)		
Original Hole	12/13/2013	20	16.8	96.8		
Original Hole	12/23/2013	13 1/2	96.8	1,620.0		
Original Hole	12/25/2013	8 3/4	1,620.0	6,090.0		
Original Hole	12/29/2013	6	6,090.0	13,478.0		
Conductor Pipe, 96.8ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
16	75.00	J-55	16.8	56.8	40.00	Casing Joints
16	75.00	J-55	56.8	96.8	40.00	Casing Joints
Surface Csg, 1,599.0ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
9 5/8	36.00	K-55	16.7	16.7	0.00	Landing Joint
9 5/8	36.00	K-55	16.7	21.7	5.00	Well head
9 5/8	36.00	K-55	21.7	1,554.2	1,532.40	Casing Joints
9 5/8	36.00	K-55	1,554.2	1,555.7	1.50	Float Collar
9 5/8	36.00	K-55	1,555.7	1,597.5	41.85	Casing Joints
9 5/8	36.00	K-55	1,597.5	1,599.0	1.50	Float Shoe
Intermediate Csg, 6,075.9ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
7	29.00	L-80	16.8	16.8	0.00	Landing Joint
7	29.00	L-80	16.8	21.8	5.00	Pup joint
7	29.00	L-80	21.8	6,031.5	6,009.68	Casing Joints
7	29.00	L-80	6,031.5	6,033.0	1.50	Float Collar
7	29.00	L-80	6,033.0	6,074.4	41.44	Casing Joints
7	29.00	L-80	6,074.4	6,075.9	1.50	Float Shoe
Liner, 13,468.0ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
4 1/2	11.60	L-80	4,810.2	4,822.5	12.26	Tie Back Extension
4 1/2	11.60	L-80	4,822.5	4,831.0	8.55	Liner Top Packer
4 1/2	11.60	L-80	4,831.0	4,837.7	6.65	Liner Hanger
4 1/2	11.60	L-80	4,837.7	4,838.7	1.00	Cross Over
4 1/2	11.60	L-80	4,838.7	4,844.1	5.45	Pup Joint
4 1/2	11.60	L-80	4,844.1	13,315.0	8,470.91	Casing Joints
4 1/2	11.60	L-80	13,315.0	13,321.1	6.03	Pup Joint
4 1/2	11.60	L-80	13,321.1	13,324.8	3.75	Alpha Sleeve
4 1/2	11.60	L-80	13,324.8	13,330.9	6.06	Pup Joint
4 1/2	11.60	L-80	13,330.9	13,375.0	44.15	Casing Joints
4 1/2	11.60	L-80	13,375.0	13,376.4	1.41	Type II Landing collar
4 1/2	11.60	L-80	13,376.4	13,377.4	0.97	Float Collar / Single valve
4 1/2	11.60	L-80	13,377.4	13,465.5	88.07	Casing Joints
4 1/2	11.60	L-80	13,465.5	13,468.0	2.53	Float Collar
Cement Stages						
Des	Pump Start Date	Drill Out Date	Top (ftKB)	Btm (ftKB)	Top Meas Meth	
Conductor Cement	9/13/2013		16.8	96.8	Returns to Surface	
Surface Casing Cement	12/24/2013		16.8	1,599.0	Returns to Surface	
Intermediate Casing Cement	12/28/2013		16.8	6,075.9	Returns to Surface	
Liner Cement	1/3/2014		4,810.2	13,468.0	Volume Calculations	
Perforations						
Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone		
Perforated Liner	3/29/2014	6,113.0	6,115.0	Niobrara, Original Hole		
Perforated Liner	3/29/2014	6,156.0	6,158.0	Niobrara, Original Hole		
Perforated Liner	3/29/2014	6,201.0	6,203.0	Niobrara, Original Hole		
Perforated Liner	3/29/2014	6,293.0	6,295.0	Niobrara, Original Hole		
Perforated Liner	3/29/2014	6,338.0	6,340.0	Niobrara, Original Hole		
Perforated Liner	3/29/2014	6,383.0	6,385.0	Niobrara, Original Hole		
Perforated Liner	3/29/2014	6,475.0	6,477.0	Niobrara, Original Hole		
Perforated Liner	3/29/2014	6,520.0	6,522.0	Niobrara, Original Hole		
Perforated Liner	3/29/2014	6,565.0	6,567.0	Niobrara, Original Hole		
Perforated Liner	3/29/2014	6,657.0	6,659.0	Niobrara, Original Hole		
Perforated Liner	3/29/2014	6,657.0	6,659.0	Niobrara, Original Hole		



Lease Review All CR

Well Name: RAZOR 271-2215A

API Number 051233795300		WPC ID 1CO076906		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,773.30		Ground Elevation (ft) 4,756.50		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 13,478.0	
Original Spud Date 12/23/2013		Completion Date 4/16/2014		Asset Group Redtail Asset Group		Responsible Engineer Andrew Fish		N/S Dist (ft) 2,394.0	N/S Ref FSL	E/W Dist (ft) 659.0	E/W Ref FEL
Lot	Quarter 1 NE	Quarter 2 SE	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type	Township 10 N	Township N/S Dir	Range 58 W	Meridian

Lateral/Horizontal - Original Hole, 7/22/2014 3:40:22 PM				Perforations				
MD (ftKB)	TV D (ftKB)	n cl (°)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
56.8	56.8	15		Perforated Liner	3/29/2014	6,700.0	6,702.0	Niobrara, Original Hole
1,554.1	1,553.5	15		Perforated Liner	3/29/2014	6,836.0	6,838.0	Niobrara, Original Hole
1,948.8	1,947.9	15		Perforated Liner	3/29/2014	6,880.0	6,882.0	Niobrara, Original Hole
3,068.6	3,067.3	15		Perforated Liner	3/29/2014	6,936.0	6,938.0	Niobrara, Original Hole
4,574.1	4,572.3	15		Perforated Liner	3/29/2014	7,022.0	7,024.0	Niobrara, Original Hole
4,810.0	4,808.1	15		Perforated Liner	3/29/2014	7,065.0	7,067.0	Niobrara, Original Hole
4,838.6	4,836.7	15		Perforated Liner	3/29/2014	7,110.0	7,112.0	Niobrara, Original Hole
5,625.0	5,643.2	58.2		Perforated Liner	3/29/2014	7,110.0	7,112.0	Niobrara, Original Hole
6,032.8	5,815.5	59.8		Perforated Liner	3/28/2014	7,202.0	7,204.0	Niobrara, Original Hole
6,115.2	5,815.1	58.7		Perforated Liner	3/28/2014	7,202.0	7,204.0	Niobrara, Original Hole
6,293.0	5,819.2	58.9		Perforated Liner	3/28/2014	7,247.0	7,249.0	Niobrara, Original Hole
6,384.8	5,819.3	58.9		Perforated Liner	3/28/2014	7,247.0	7,249.0	Niobrara, Original Hole
6,565.0	5,815.3	58.4		Perforated Liner	3/28/2014	7,292.0	7,294.0	Niobrara, Original Hole
6,702.1	5,814.4	58.3		Perforated Liner	3/28/2014	7,384.0	7,386.0	Niobrara, Original Hole
6,936.0	5,818.0	58.1		Perforated Liner	3/28/2014	7,384.0	7,386.0	Niobrara, Original Hole
7,066.9	5,819.0	58.3		Perforated Liner	3/28/2014	7,429.0	7,431.0	Niobrara, Original Hole
7,247.0	5,816.4	58.5		Perforated Liner	3/28/2014	7,474.0	7,476.0	Niobrara, Original Hole
7,386.2	5,815.5	58.4		Perforated Liner	3/28/2014	7,474.0	7,476.0	Niobrara, Original Hole
7,564.0	5,822.3	58.5		Perforated Liner	3/28/2014	7,564.0	7,566.0	Niobrara, Original Hole
7,651.9	5,827.3	58.0		Perforated Liner	3/28/2014	7,564.0	7,566.0	Niobrara, Original Hole
7,841.9	5,829.5	58.0		Perforated Liner	3/28/2014	7,608.0	7,610.0	Niobrara, Original Hole
7,977.0	5,823.6	58.3		Perforated Liner	3/28/2014	7,650.0	7,652.0	Niobrara, Original Hole
8,157.2	5,820.6	58.2		Perforated Liner	3/28/2014	7,650.0	7,652.0	Niobrara, Original Hole
8,294.9	5,822.4	58.7		Perforated Liner	3/28/2014	7,754.0	7,756.0	Niobrara, Original Hole
8,475.1	5,824.4	58.8		Perforated Liner	3/28/2014	7,798.0	7,800.0	Niobrara, Original Hole
8,566.9	5,835.4	58.5		Perforated Liner	3/28/2014	7,798.0	7,800.0	Niobrara, Original Hole
8,747.0	5,824.7	58.5		Perforated Liner	3/28/2014	7,842.0	7,844.0	Niobrara, Original Hole
8,892.1	5,834.7	58.6		Perforated Liner	3/28/2014	7,930.0	7,932.0	Niobrara, Original Hole
9,065.9	5,834.7	58.2		Perforated Liner	3/28/2014	7,930.0	7,932.0	Niobrara, Original Hole
9,205.1	5,832.2	58.0		Perforated Liner	3/28/2014	7,975.0	7,977.0	Niobrara, Original Hole
9,384.8	5,820.4	58.1	Perforated Liner	3/28/2014	8,020.0	8,022.0	Niobrara, Original Hole	
9,477.0	5,831.0	58.2	Perforated Liner	3/28/2014	8,020.0	8,022.0	Niobrara, Original Hole	
9,653.9	5,838.7	58.0	Perforated Liner	3/28/2014	8,112.0	8,114.0	Niobrara, Original Hole	
9,799.9	5,840.3	58.0	Perforated Liner	3/28/2014	8,157.0	8,159.0	Niobrara, Original Hole	
9,975.1	5,838.7	58.0	Perforated Liner	3/28/2014	8,157.0	8,159.0	Niobrara, Original Hole	
10,113.8	5,837.2	58.6	Perforated Liner	3/28/2014	8,202.0	8,204.0	Niobrara, Original Hole	
10,294.0	5,842.8	58.3	Perforated Liner	3/28/2014	8,202.0	8,204.0	Niobrara, Original Hole	
10,386.2	5,846.8	58.7	Perforated Liner	3/28/2014	8,293.0	8,295.0	Niobrara, Original Hole	
10,562.0	5,855.3	58.0	Perforated Liner	3/28/2014	8,338.0	8,340.0	Niobrara, Original Hole	
10,709.0	5,860.0	58.0	Perforated Liner	3/28/2014	8,338.0	8,340.0	Niobrara, Original Hole	
10,884.8	5,861.3	58.0	Perforated Liner	3/28/2014	8,383.0	8,385.0	Niobrara, Original Hole	
11,024.0	5,864.0	58.0	Perforated Liner	3/27/2014	8,475.0	8,477.0	Niobrara, Original Hole	
11,200.1	5,869.5	58.1	Perforated Liner	3/27/2014	8,475.0	8,477.0	Niobrara, Original Hole	
11,291.0	5,871.2	58.7	Perforated Liner	3/27/2014	8,520.0	8,522.0	Niobrara, Original Hole	
11,475.1	5,871.6	58.5	Perforated Liner	3/27/2014	8,565.0	8,567.0	Niobrara, Original Hole	
11,613.8	5,872.7	58.8	Perforated Liner	3/27/2014	8,565.0	8,567.0	Niobrara, Original Hole	
11,794.0	5,875.6	58.0	Perforated Liner	3/27/2014	8,657.0	8,659.0	Niobrara, Original Hole	
11,925.9	5,870.8	58.0	Perforated Liner	3/27/2014	8,702.0	8,704.0	Niobrara, Original Hole	
12,112.9	5,874.1	58.1	Perforated Liner	3/27/2014	8,702.0	8,704.0	Niobrara, Original Hole	
12,205.1	5,870.9	58.0	Perforated Liner	3/27/2014	8,747.0	8,749.0	Niobrara, Original Hole	
12,384.8	5,885.2	58.6	Perforated Liner	3/27/2014	8,747.0	8,749.0	Niobrara, Original Hole	
12,524.0	5,884.1	58.4	Perforated Liner	3/27/2014	8,834.0	8,836.0	Niobrara, Original Hole	
12,710.0	5,883.5	58.8	Perforated Liner	3/27/2014	8,890.0	8,892.0	Niobrara, Original Hole	
12,841.9	5,885.5	58.6	Perforated Liner	3/27/2014	8,933.0	8,935.0	Niobrara, Original Hole	
13,022.0	5,886.8	58.4	Perforated Liner	3/27/2014	8,933.0	8,935.0	Niobrara, Original Hole	
13,113.8	5,889.3	58.5	Perforated Liner	3/27/2014	9,021.0	9,023.0	Niobrara, Original Hole	
13,257.9	5,889.9	58.8	Perforated Liner	3/27/2014	9,021.0	9,023.0	Niobrara, Original Hole	
13,330.7	5,889.9	58.9	Perforated Liner	3/27/2014	9,066.0	9,068.0	Niobrara, Original Hole	
13,467.8	5,881.6	58.6	Perforated Liner	3/27/2014	9,066.0	9,068.0	Niobrara, Original Hole	



Lease Review All CR

Well Name: RAZOR 271-2215A

API Number 051233795300		WPC ID 1CO076906		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,773.30		Ground Elevation (ft) 4,756.50		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 13,478.0	
Original Spud Date 12/23/2013		Completion Date 4/16/2014		Asset Group Redtail Asset Group		Responsible Engineer Andrew Fish		N/S Dist (ft) 2,394.0	N/S Ref FSL	E/W Dist (ft) 659.0	E/W Ref FEL
Lot	Quarter 1 NE	Quarter 2 SE	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type	Township 10 N	Township N/S Dir	Range 58 W	Meridian

Lateral/Horizontal - Original Hole, 7/22/2014 3:40:23 PM				Perforations				
MD (ftKB)	TV D (ftKB)	n cl (°)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
56.8	56.8	15		Perforated Liner	3/27/2014	9,111.0	9,113.0	Niobrara, Original Hole
1,554.1	1,553.5	15		Perforated Liner	3/26/2014	9,203.0	9,205.0	Niobrara, Original Hole
1,948.8	1,947.9	15		Perforated Liner	3/26/2014	9,248.0	9,250.0	Niobrara, Original Hole
3,068.6	3,067.3	15		Perforated Liner	3/26/2014	9,293.0	9,295.0	Niobrara, Original Hole
4,574.1	4,572.3	15		Perforated Liner	3/26/2014	9,385.0	9,387.0	Niobrara, Original Hole
4,810.0	4,808.1	15		Perforated Liner	3/26/2014	9,430.0	9,432.0	Niobrara, Original Hole
4,838.6	4,836.7	15		Perforated Liner	3/26/2014	9,475.0	9,477.0	Niobrara, Original Hole
5,625.0	5,642.3	58.2		Perforated Liner	3/26/2014	9,567.0	9,569.0	Niobrara, Original Hole
6,032.8	5,815.5	59.8		Perforated Liner	3/26/2014	9,610.0	9,612.0	Niobrara, Original Hole
6,115.2	5,815.1	88.7		Perforated Liner	3/26/2014	9,654.0	9,669.0	Niobrara, Original Hole
6,293.0	5,819.2	88.9		Perforated Liner	3/26/2014	9,754.0	9,756.0	Niobrara, Original Hole
6,384.8	5,819.3	88.9		Perforated Liner	3/26/2014	9,798.0	9,800.0	Niobrara, Original Hole
6,565.0	5,815.3	81.4		Perforated Liner	3/26/2014	9,842.0	9,844.0	Niobrara, Original Hole
6,702.1	5,814.4	88.3		Perforated Liner	3/26/2014	9,930.0	9,932.0	Niobrara, Original Hole
6,936.0	5,818.0	88.1		Perforated Liner	3/26/2014	9,975.0	9,977.0	Niobrara, Original Hole
7,066.9	5,819.0	88.3		Perforated Liner	3/26/2014	10,020.0	10,022.0	Niobrara, Original Hole
7,247.0	5,816.4	81.5		Perforated Liner	3/26/2014	10,112.0	10,114.0	Niobrara, Original Hole
7,386.2	5,815.5	88.4		Perforated Liner	3/26/2014	10,157.0	10,159.0	Niobrara, Original Hole
7,564.0	5,822.3	88.5		Perforated Liner	3/26/2014	10,202.0	10,204.0	Niobrara, Original Hole
7,651.9	5,827.3	87.0		Perforated Liner	3/26/2014	10,294.0	10,296.0	Niobrara, Original Hole
7,841.9	5,829.5	89.0		Perforated Liner	3/26/2014	10,339.0	10,341.0	Niobrara, Original Hole
7,977.0	5,823.6	88.3		Perforated Liner	3/26/2014	10,384.0	10,386.0	Niobrara, Original Hole
8,157.2	5,820.6	88.2		Perforated Liner	3/26/2014	10,476.0	10,478.0	Niobrara, Original Hole
8,294.9	5,822.4	87.7		Perforated Liner	3/26/2014	10,519.0	10,521.0	Niobrara, Original Hole
8,475.1	5,824.4	88.8		Perforated Liner	3/26/2014	10,562.0	10,564.0	Niobrara, Original Hole
8,566.9	5,835.4	88.5		Perforated Liner	3/26/2014	10,663.0	10,665.0	Niobrara, Original Hole
8,747.0	5,824.7	88.5		Perforated Liner	3/26/2014	10,707.0	10,709.0	Niobrara, Original Hole
8,892.1	5,834.7	88.6		Perforated Liner	3/26/2014	10,751.0	10,753.0	Niobrara, Original Hole
9,065.9	5,834.7	91.2		Perforated Liner	3/26/2014	10,840.0	10,842.0	Niobrara, Original Hole
9,205.1	5,832.2	88.0		Perforated Liner	3/26/2014	10,885.0	10,887.0	Niobrara, Original Hole
9,384.8	5,830.4	88.1	Perforated Liner	3/26/2014	10,930.0	10,932.0	Niobrara, Original Hole	
9,477.0	5,831.0	88.2	Perforated Liner	3/26/2014	11,022.0	11,024.0	Niobrara, Original Hole	
9,653.9	5,838.7	87.9	Perforated Liner	3/26/2014	11,067.0	11,069.0	Niobrara, Original Hole	
9,799.9	5,840.3	88.0	Perforated Liner	3/26/2014	11,112.0	11,114.0	Niobrara, Original Hole	
9,975.1	5,838.7	88.0	Perforated Liner	3/26/2014	11,200.0	11,202.0	Niobrara, Original Hole	
10,113.8	5,837.2	88.6	Perforated Liner	3/26/2014	11,244.0	11,246.0	Niobrara, Original Hole	
10,294.0	5,842.8	87.3	Perforated Liner	3/26/2014	11,289.0	11,291.0	Niobrara, Original Hole	
10,386.2	5,846.8	87.7	Perforated Liner	3/26/2014	11,380.0	11,382.0	Niobrara, Original Hole	
10,562.0	5,855.3	87.0	Perforated Liner	3/26/2014	11,430.0	11,432.0	Niobrara, Original Hole	
10,709.0	5,880.0	88.0	Perforated Liner	3/26/2014				
10,884.8	5,881.3	88.0	Perforated Liner	3/26/2014				
11,024.0	5,884.0	87.8	Perforated Liner	3/26/2014				
11,200.1	5,889.5	88.1	Perforated Liner	3/26/2014				
11,291.0	5,871.2	88.7	Perforated Liner	3/26/2014				
11,475.1	5,871.6	88.5	Perforated Liner	3/26/2014				
11,613.8	5,872.7	88.8	Perforated Liner	3/26/2014				
11,794.0	5,875.6	88.0	Perforated Liner	3/26/2014				
11,925.9	5,878.8	88.0	Perforated Liner	3/26/2014				
12,112.9	5,874.1	88.1	Perforated Liner	3/26/2014				
12,205.1	5,870.9	88.0	Perforated Liner	3/26/2014				
12,384.8	5,885.2	81.6	Perforated Liner	3/26/2014				
12,524.0	5,884.1	88.4	Perforated Liner	3/26/2014				
12,710.0	5,883.5	81.8	Perforated Liner	3/26/2014				
12,841.9	5,858.5	82.6	Perforated Liner	3/26/2014				
13,022.0	5,858.8	88.4	Perforated Liner	3/26/2014				
13,113.8	5,859.3	88.5	Perforated Liner	3/26/2014				
13,257.9	5,880.9	88.8	Perforated Liner	3/26/2014				
13,330.7	5,883.9	88.9	Perforated Liner	3/26/2014				
13,467.8	5,881.6	81.6	Perforated Liner	3/26/2014				



Lease Review All CR

Well Name: RAZOR 271-2215A

API Number 051233795300		WPC ID 1CO076906		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,773.30		Ground Elevation (ft) 4,756.50		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 13,478.0	
Original Spud Date 12/23/2013		Completion Date 4/16/2014		Asset Group Redtail Asset Group		Responsible Engineer Andrew Fish		N/S Dist (ft) 2,394.0	N/S Ref FSL	E/W Dist (ft) 659.0	E/W Ref FEL
Lot	Quarter 1 NE	Quarter 2 SE	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type	Township 10 N	Township N/S Dir	Range 58 W	Meridian

Lateral/Horizontal - Original Hole, 7/22/2014 3:40:24 PM				Perforations				
MD (ftKB)	TV D (ftKB)	n cl (°)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
56.8	56.8	15		Perforated Liner	3/25/2014	11,475.0	11,477.0	Niobrara, Original Hole
1,554.1	1,553.5	13		Perforated Liner	3/24/2014	11,567.0	11,569.0	Niobrara, Original Hole
1,948.8	1,947.9	15		Perforated Liner	3/24/2014	11,612.0	11,614.0	Niobrara, Original Hole
3,068.6	3,067.3	12		Perforated Liner	3/24/2014	11,657.0	11,659.0	Niobrara, Original Hole
4,574.1	4,572.3	15		Perforated Liner	3/24/2014	11,749.0	11,751.0	Niobrara, Original Hole
4,810.0	4,808.1	15		Perforated Liner	3/24/2014	11,794.0	11,796.0	Niobrara, Original Hole
4,838.6	4,836.7	10		Perforated Liner	3/24/2014	11,839.0	11,841.0	Niobrara, Original Hole
5,625.0	5,643.2	58.2		Perforated Liner	3/24/2014	11,924.0	11,926.0	Niobrara, Original Hole
6,032.8	5,815.5	59.8		Perforated Liner	3/24/2014	11,968.0	11,970.0	Niobrara, Original Hole
6,115.2	5,815.1	88.7		Perforated Liner	3/24/2014	12,021.0	12,023.0	Niobrara, Original Hole
6,293.0	5,819.2	88.9		Perforated Liner	3/24/2014	12,113.0	12,115.0	Niobrara, Original Hole
6,384.8	5,819.3	88.9		Perforated Liner	3/24/2014	12,158.0	12,160.0	Niobrara, Original Hole
6,565.0	5,815.3	81.4		Perforated Liner	3/24/2014	12,203.0	12,205.0	Niobrara, Original Hole
6,702.1	5,814.4	88.3		Perforated Liner	3/24/2014	12,295.0	12,297.0	Niobrara, Original Hole
6,936.0	5,818.0	88.1		Perforated Liner	3/24/2014	12,340.0	12,342.0	Niobrara, Original Hole
7,066.9	5,819.0	88.3		Perforated Liner	3/24/2014	12,385.0	12,387.0	Niobrara, Original Hole
7,247.0	5,816.4	81.5		Perforated Liner	3/23/2014	12,477.0	12,479.0	Niobrara, Original Hole
7,386.2	5,815.5	88.4		Perforated Liner	3/23/2014	12,522.0	12,524.0	Niobrara, Original Hole
7,564.0	5,822.3	88.5		Perforated Liner	3/23/2014	12,567.0	12,569.0	Niobrara, Original Hole
7,651.9	5,827.3	87.0		Perforated Liner	3/23/2014	12,664.0	12,666.0	Niobrara, Original Hole
7,841.9	5,829.5	89.0		Perforated Liner	3/23/2014	12,710.0	12,712.0	Niobrara, Original Hole
7,977.0	5,823.6	88.3		Perforated Liner	3/23/2014	12,754.0	12,756.0	Niobrara, Original Hole
8,157.2	5,820.6	88.2		Perforated Liner	3/23/2014	12,840.0	12,842.0	Niobrara, Original Hole
8,294.9	5,822.4	87.7		Perforated Liner	3/23/2014	12,885.0	12,887.0	Niobrara, Original Hole
8,475.1	5,832.4	88.8		Perforated Liner	3/23/2014	12,930.0	12,932.0	Niobrara, Original Hole
8,566.9	5,835.4	88.5		Perforated Liner	3/23/2014	13,022.0	13,024.0	Niobrara, Original Hole
8,747.0	5,824.7	88.5		Perforated Liner	3/22/2014	13,067.0	13,069.0	Niobrara, Original Hole
8,892.1	5,834.7	88.6		Perforated Liner	3/22/2014	13,112.0	13,114.0	Niobrara, Original Hole
9,065.9	5,834.7	91.2		Perforated Liner	3/22/2014	13,204.0	13,206.0	Niobrara, Original Hole
9,205.1	5,832.2	88.0		Perforated Liner	3/22/2014	13,236.0	13,238.0	Niobrara, Original Hole
9,384.8	5,830.4	81.1	Perforated Liner	3/22/2014	13,258.0	13,260.0	Niobrara, Original Hole	
9,477.0	5,831.0	88.2	Perforated Liner					
9,653.9	5,838.7	87.9	Perforated Liner					
9,799.9	5,840.3	88.0	Perforated Liner					
9,975.1	5,838.7	88.0	Perforated Liner					
10,113.8	5,837.2	88.6	Perforated Liner					
10,294.0	5,842.8	87.3	Perforated Liner					
10,386.2	5,846.8	87.7	Perforated Liner					
10,562.0	5,855.3	87.0	Perforated Liner					
10,709.0	5,860.0	88.0	Perforated Liner					
10,884.8	5,861.3	88.0	Perforated Liner					
11,024.0	5,864.0	87.8	Perforated Liner					
11,200.1	5,869.5	88.1	Perforated Liner					
11,291.0	5,871.2	88.7	Perforated Liner					
11,475.1	5,871.6	88.5	Perforated Liner					
11,613.8	5,872.7	88.8	Perforated Liner					
11,794.0	5,875.6	88.0	Perforated Liner					
11,925.9	5,878.8	88.9	Perforated Liner					
12,112.9	5,874.1	82.1	Perforated Liner					
12,205.1	5,870.9	82.0	Perforated Liner					
12,384.8	5,865.2	81.6	Perforated Liner					
12,524.0	5,864.1	88.4	Perforated Liner					
12,710.0	5,863.5	81.8	Perforated Liner					
12,841.9	5,858.5	82.6	Perforated Liner					
13,022.0	5,856.8	88.4	Perforated Liner					
13,113.8	5,859.3	88.5	Perforated Liner					
13,257.9	5,860.9	88.8	Perforated Liner					
13,330.7	5,863.9	88.9	Perforated Liner					
13,467.8	5,861.6	81.6	Perforated Liner					

Stim/Treat Stages						
Stage Type	Start Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pump (bbl)	
40	3/29/2014	6,113.0	6,203.0	40/70# 8800, 20/40# 95460, Slick Water	2296.00	
39	3/29/2014	6,293.0	6,385.0	40/70# 9170, 20/40# 100738, Slick Water	2356.00	
38	3/29/2014	6,475.0	6,567.0	40/70# 8906, 20/40# 101100, Slick Water	2371.00	
37	3/29/2014	6,657.0	6,702.0	40/70# 8921, 20/40# 101032, Slick Water	2347.00	
36	3/29/2014	6,836.0	6,938.0	40/70# 9000, 20/40# 100700, Slick Water	2388.00	
35	3/28/2014	7,022.0	7,112.0	40/70# 9110, 20/40# 99840, Slick Water	2410.00	



Lease Review All CR

Well Name: RAZOR 271-2215A

API Number 051233795300		WPC ID 1CO076906		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,773.30		Ground Elevation (ft) 4,756.50		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ft)KB 13,478.0	
Original Spud Date 12/23/2013		Completion Date 4/16/2014		Asset Group Redtail Asset Group		Responsible Engineer Andrew Fish		N/S Dist (ft) 2,394.0	N/S Ref FSL	E/W Dist (ft) 659.0	E/W Ref FEL
Lot	Quarter 1 NE	Quarter 2 SE	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type	Township 10 N	Township N/S Dir	Range 58 W	Meridian

Lateral/Horizontal - Original Hole, 7/22/2014 3:40:26 PM				Stim/Treat Stages						
MD (ft)KB	TV D (ft)KB	n cl (°)	Logs	Stage Type	Start Date	Top (ft)KB	Btm (ft)KB	Stim/Treat Fluid		Vol Clean Pump (bbl)
				34	3/28/2014	7,202.0	7,294.0	40/70# 8989, 20/40# 100211, Slick Water		2370.00
56.8	56.8	15		33	3/28/2014	7,384.0	7,476.0	40/70# 8986, 20/40# 100614, Slick Water		2394.00
1,554.1	1,553.5	33		32	3/28/2014	7,564.0	7,652.0	40/70# 12334, 20/40# 100590, Slick Water		2359.00
1,948.8	1,947.9	15		31	3/28/2014	7,754.0	7,844.0	40/70# 9004, 20/40# 101929, Slick Water		2405.00
3,068.6	3,067.3	15		30	3/28/2014	7,930.0	8,022.0	40/70# 9130, 20/40# 100360, Slick Water		2352.00
4,574.1	4,572.3	15		29	3/28/2014	8,112.0	8,204.0	40/70# 8962, 20/40# 101791, Slick Water		2423.00
4,810.0	4,808.1	15		28	3/27/2014	8,293.0	8,385.0	40/70# 9212, 20/40# 102488, Slick Water		2403.00
4,838.6	4,836.7	10		27	3/27/2014	8,475.0	8,567.0	40/70# 9217, 20/40# 102883, Slick Water		3209.00
5,625.0	5,642.3	58.2		26	3/27/2014	8,657.0	8,749.0	40/70# 8999, 20/40# 100201, Slick Water		2392.00
6,032.8	6,015.5	59.8		25	3/27/2014	8,834.0	8,935.0	40/70# 8900, 20/40# 107600, Slick Water		2436.00
6,115.2	6,015.1	88.7		24	3/26/2014	9,021.0	9,113.0	40/70# 9430, 20/40# 103870, Slick Water		2594.00
6,293.0	6,019.2	88.9		23	3/26/2014	9,203.0	9,295.0	40/70# 8852, 20/40# 102048, Slick Water		2416.00
6,384.8	6,019.3	88.9		22	3/26/2014	9,385.0	9,477.0	40/70# 9007, 20/40# 101393, Slick Water		2427.00
6,565.0	6,015.3	81.4	21	3/26/2014	9,567.0	9,669.0	40/70# 9011, 20/40# 93276, Slick Water		2364.00	
6,702.1	6,014.4	88.3	20	3/26/2014	9,754.0	9,844.0	40/70# 9008, 20/40# 100210, Slick Water		2394.00	
6,936.0	6,018.0	88.1	19	3/26/2014	9,930.0	10,022.0	40/70# 8990, 20/40# 100710, Slick Water		2408.00	
7,066.9	6,019.0	88.3	18	3/26/2014	10,112.0	10,204.0	40/70# 9072, 20/40# 98728, Slick Water		2437.00	
7,247.0	6,016.4	81.5	17	3/25/2014	10,294.0	10,386.0	40/70# 8922, 20/40# 99678, Slick Water		2499.00	
7,386.2	6,015.5	88.4	16	3/25/2014	10,476.0	10,564.0	40/70# 9066, 20/40# 97634, 15% HCl# 24, Slick Water		2489.00	
7,564.0	6,023.3	88.5	15	3/25/2014	10,663.0	10,753.0	40/70# 8995, 20/40# 103005, Slick Water		2455.00	
7,651.9	6,027.3	87.0	14	3/25/2014	10,840.0	10,932.0	40/70# 8999, 20/40# 99505, 15% HCl# 24, Slick Water		2492.00	
7,841.9	6,029.5	90.0	13	3/25/2014	11,022.0	11,114.0	40/70# 8966, 20/40# 101097, 15% HCl# 24, Slick Water		2481.00	
7,977.0	6,023.6	88.3	12	3/25/2014	11,200.0	11,291.0	40/70# 8993, 20/40# 100668, 15% HCl# 24, Slick Water		2462.00	
8,157.2	6,020.6	88.2	11	3/24/2014	11,380.0	11,477.0	40/70# 8966, 20/40# 99634, 15% HCl# 24, Slick Water		2493.00	
8,294.9	6,022.4	87.7	10	3/24/2014	11,567.0	11,659.0	40/70# 9061, 20/40# 100039, 15% HCl# 24, Slick Water		2475.00	
8,475.1	6,024.4	88.8	9	3/24/2014	11,749.0	11,841.0	40/70# 9067, 20/40# 100633, 15% HCl# 24, Slick Water		2527.00	
8,566.9	6,035.4	88.5	8	3/24/2014	11,924.0	12,023.0	40/70# 9007, 20/40# 100773, 15% HCl# 24, Slick Water		2889.00	
8,747.0	6,034.7	88.5	7	3/23/2014	12,113.0	12,205.0	40/70# 9141, 20/40# 99059, 15% HCl# 24, Slick Water		2612.00	
8,892.1	6,034.7	88.6	6	3/23/2014	12,295.0	12,387.0	40/70# 9118, 20/40# 97682, 15% HCl# 24, Slick Water		2447.00	
9,065.9	6,034.7	91.2	5	3/23/2014	12,477.0	12,569.0	40/70# 9027, 20/40# 99973, 15% HCl# 24, Slick Water		2452.00	
9,205.1	6,032.2	88.0	4	3/23/2014	12,664.0	12,756.0	40/70# 9015, 20/40# 99285, 15% HCl# 24, Slick Water		2604.00	
9,384.8	6,030.4	81.1	3	3/23/2014	12,840.0	12,932.0	40/70# 8955, 20/40# 94845, 15% HCl# 24, Slick Water		2592.00	
9,477.0	6,031.0	88.2	2	3/22/2014	13,022.0	13,114.0	40/70# 9015, 20/40# 101085, 15% HCl# 24, Slick Water		2565.00	
9,653.9	6,038.7	87.9	1	3/22/2014	13,204.0	13,260.0	40/70# 9377, 20/40# 97323, 15% HCl# 24, Slick Water		2580.00	
9,799.9	6,040.3	88.0	Tubing - Production set at 5,697.0ftKB on 4/16/2014 12:19							
9,975.1	6,038.7	88.0	Set Depth (ft)KB	Comment		Run Date	Pull Date			
10,113.8	6,037.2	88.6	5,697.0			4/16/2014				
10,294.0	6,042.8	87.3								
10,386.2	6,046.8	87.7								
10,562.0	6,055.3	87.0								
10,709.0	6,060.0	88.0								
10,884.8	6,061.3	90.0								
11,024.0	6,064.0	87.8								
11,200.1	6,069.5	88.1								
11,291.0	6,071.2	88.7								
11,475.1	6,071.6	88.5								
11,613.8	6,072.7	88.8								
11,794.0	6,075.6	90.0								
11,925.9	6,078.8	88.9								
12,112.9	6,074.1	82.1								
12,205.1	6,070.9	82.0								
12,384.8	6,065.2	81.6								
12,524.0	6,064.1	88.4								
12,710.0	6,063.5	91.8								
12,841.9	6,058.5	82.6								
13,022.0	6,056.8	88.4								
13,113.8	6,059.3	88.5								
13,257.9	6,060.9	88.8								
13,330.7	6,060.9	88.9								
13,467.8	6,061.6	91.6								



Lease Review All CR

Well Name: RAZOR 271-2215A

API Number 051233795300		WPC ID 1C0076906		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,773.30		Ground Elevation (ft) 4,756.50		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 13,478.0	
Original Spud Date 12/23/2013		Completion Date 4/16/2014		Asset Group Redtail Asset Group		Responsible Engineer Andrew Fish		N/S Dist (ft) 2,394.0		E/W Dist (ft) 659.0	
Lot		Quarter 1 NE		Quarter 2 SE		Quarter 3		Quarter 4		Section 27	
Section Suffix		Section Type		Township 10 N		Township N/S Dir N		Range 58 W		Meridian	

Lateral/Horizontal - Original Hole, 7/22/2014 3:40:27 PM			Item Des	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
MD (ftKB)	TV D (ftKB)	n cl (°)						
56.8	56.8	15	Tubing	2 7/8	2.441	30.30	17.8	48.1
1,554.1	1,553.5	13	Tubing Sub	2 7/8		10.00	48.1	58.1
1,948.8	1,947.9	15	Tubing	2 7/8	2.441	1,148.78	58.1	1,206.9
3,068.6	3,067.3	12	Gas Lift Mandrel	2 7/8		4.05	1,206.9	1,211.0
4,574.1	4,572.3	15	Tubing	2 7/8	2.441	737.77	1,211.0	1,948.7
4,810.0	4,808.1	15	Gas Lift Mandrel	2 7/8		4.05	1,948.7	1,952.8
4,838.6	4,836.7	10	Tubing	2 7/8	2.441	610.35	1,952.8	2,563.1
5,625.0	5,642.3	58.2	Gas Lift Mandrel	2 7/8		4.05	2,563.1	2,567.2
6,032.8	6,015.5	59.8	Tubing	2 7/8	2.441	497.46	2,567.2	3,064.7
6,115.2	6,015.1	60.7	Gas Lift Mandrel	2 7/8		4.05	3,064.7	3,068.7
6,293.0	6,019.2	60.9	Tubing	2 7/8	2.441	501.21	3,068.7	3,569.9
6,384.8	6,019.3	60.9	Gas Lift Mandrel	2 7/8		4.05	3,569.9	3,574.0
6,565.0	6,015.3	61.4	Tubing	2 7/8	2.441	495.77	3,574.0	4,069.7
6,702.1	6,014.4	63.3	Gas Lift Mandrel	2 7/8		4.05	4,069.7	4,073.8
6,936.0	6,018.0	66.1	Tubing	2 7/8	2.441	500.28	4,073.8	4,574.1
7,066.9	6,019.0	66.3	Gas Lift Mandrel	2 7/8		4.05	4,574.1	4,578.1
7,247.0	6,016.4	61.5	Tubing	2 7/8	2.441	155.30	4,578.1	4,733.4
7,386.2	6,015.5	64.1	Cup Seating Nipple	2 7/8		1.10	4,733.4	4,734.5
7,564.0	6,023.3	65.5	Cross Over 2-7/8" x 2-3/8"	2 7/8		0.50	4,734.5	4,735.0
7,651.9	6,027.3	67.0	Tubing	2 3/8	1.995	334.38	4,735.0	5,069.4
7,841.9	6,029.5	69.0	Gas Lift Mandrel	2 3/8		4.05	5,069.4	5,073.4
7,977.0	6,026.6	69.2	Tubing	2 3/8	1.995	547.56	5,073.4	5,621.0
8,157.2	6,020.6	69.2	Gas Lift Mandrel	2 3/8		4.05	5,621.0	5,625.1
8,294.9	6,022.4	67.7	Tubing	2 3/8	1.995	60.58	5,625.1	5,685.6
8,475.1	6,024.4	68.8	On-Off Tool	2 3/8		1.34	5,685.6	5,687.0
8,566.9	6,035.4	68.5	Packer AS-1 seal assembly pkr	4 1/2		10.00	5,687.0	5,697.0
8,747.0	6,024.7	68.5						
8,892.1	6,034.7	68.4						
9,065.9	6,034.7	61.2						
9,205.1	6,032.2	60.2						
9,384.8	6,030.4	61.1						
9,477.0	6,031.0	61.2						
9,653.9	6,038.7	67.9						
9,799.9	6,040.3	69.3						
9,975.1	6,038.7	69.3						
10,113.8	6,037.2	68.4						
10,294.0	6,042.9	67.3						
10,386.2	6,046.8	67.7						
10,562.0	6,053.3	67.0						
10,709.0	6,060.0	66.0						
10,884.8	6,061.3	66.0						
11,024.0	6,064.0	67.8						
11,200.1	6,069.5	68.1						
11,291.0	6,071.2	68.7						
11,475.1	6,071.6	69.3						
11,613.8	6,072.7	68.8						
11,794.0	6,075.6	69.0						
11,925.9	6,076.8	69.3						
12,112.9	6,074.1	69.1						
12,205.1	6,079.9	69.0						
12,384.8	6,085.2	61.6						
12,524.0	6,084.1	61.4						
12,710.0	6,093.5	61.8						
12,841.9	6,095.5	62.6						
13,022.0	6,096.8	64.4						
13,113.8	6,099.3	65.5						
13,257.9	6,099.9	68.8						
13,330.7	6,099.9	69.9						
13,467.8	6,091.6	91.6						

Vertical schematic (actual)

Logs

Rod Strings			
<des> on <dtmrun>			
Rod Description	Run Date	Pull Date	
Item Des	OD (in)	Len (ft)	Top (ftKB) / Btm (ftKB)

Other Strings			
Set Depth (ftKB)	Comment	Run Date	Pull Date
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	3/29/2014	4/15/2014	6,248.0	6,250.0
CFP	4	3/29/2014	4/15/2014	6,430.0	6,432.0
CFP	4	3/29/2014	4/15/2014	6,610.0	6,612.0
CFP	4	3/29/2014	4/15/2014	6,787.0	6,789.0
CFP	4	3/29/2014	4/15/2014	6,984.0	6,986.0
CFP	4	3/29/2014	4/15/2014	7,160.0	7,162.0
CFP	4	3/28/2014	4/15/2014	7,339.0	7,341.0
CFP	4	3/28/2014	4/15/2014	7,521.0	7,523.0
CFP	4	3/28/2014	4/15/2014	7,693.0	7,695.0
CFP	4	3/28/2014	4/15/2014	7,886.0	7,888.0
CFP	4	3/28/2014	4/15/2014	8,054.0	8,056.0
CFP	4	3/28/2014	4/15/2014	8,248.0	8,250.0
CFP	4	3/28/2014	4/15/2014	8,430.0	8,432.0
CFP	4	3/27/2014	4/15/2014	8,608.0	8,610.0
CFP	4	3/27/2014	4/15/2014	8,786.0	8,788.0
CFP	4	3/27/2014	4/15/2014	8,982.0	8,984.0
CFP	4	3/27/2014	4/15/2014	9,158.0	9,160.0
CFP	4	3/26/2014	4/15/2014	9,340.0	9,342.0
CFP	4	3/26/2014	4/15/2014	9,522.0	9,524.0
CFP	4	3/26/2014	4/15/2014	9,710.0	9,712.0
CFP	4	3/26/2014	4/15/2014	9,886.0	9,888.0
CFP	4	3/26/2014	4/15/2014	10,067.0	10,069.0
CFP	4	3/26/2014	4/15/2014	10,249.0	10,251.0
CFP	4	3/25/2014	4/15/2014	10,426.0	10,428.0
CFP	4	3/25/2014	4/15/2014	10,600.0	10,602.0
CFP	4	3/25/2014	4/15/2014	10,795.0	10,797.0
CFP	4	3/25/2014	4/15/2014	10,977.0	10,979.0
CFP	4	3/25/2014	4/15/2014	11,158.0	11,160.0
CFP	4	3/25/2014	4/15/2014	11,334.0	11,336.0
CFP	4	3/25/2014	4/15/2014	11,522.0	11,524.0
CFP	4	3/24/2014	4/15/2014	11,704.0	11,706.0
CFP	4	3/24/2014	4/14/2014	11,879.0	11,881.0
CFP	4	3/24/2014	4/14/2014	12,068.0	12,070.0

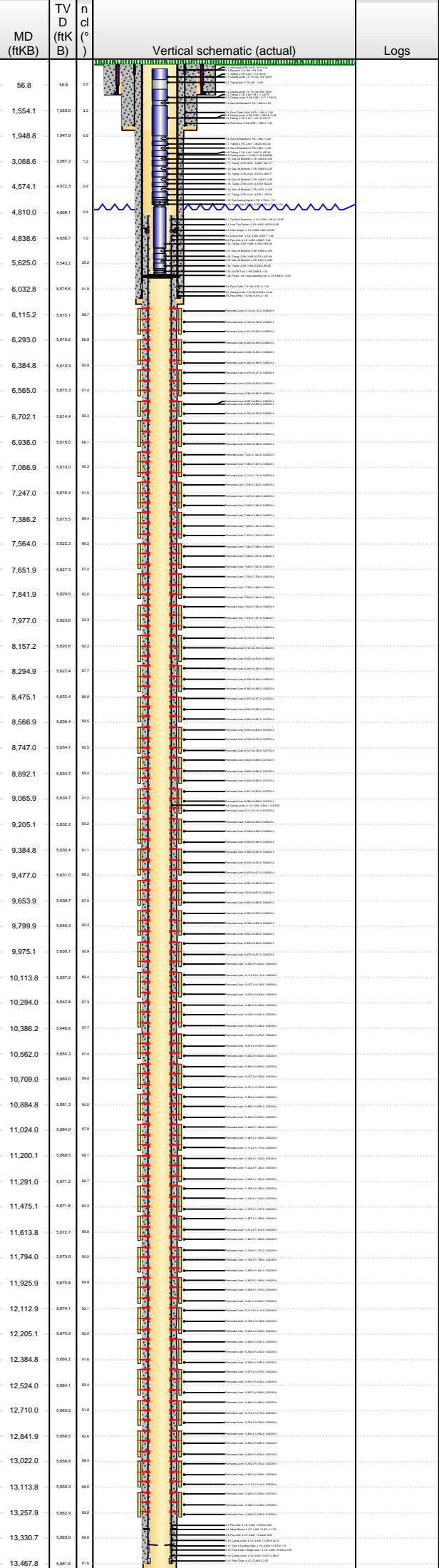


Lease Review All CR

Well Name: RAZOR 271-2215A

API Number 051233795300		WPC ID 1CO076906		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,773.30		Ground Elevation (ft) 4,756.50		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 13,478.0	
Original Spud Date 12/23/2013		Completion Date 4/16/2014		Asset Group Redtail Asset Group		Responsible Engineer Andrew Fish		N/S Dist (ft) 2,394.0		E/W Dist (ft) 659.0	
N/S Ref FSL		E/W Ref FEL		Section 27		Section Suffix		Section Type		Township 10 N	
Range 58 W		Meridian		Township N/S Dir		Range E/W Dir		Meridian			

Lateral/Horizontal - Original Hole, 7/22/2014 3:40:28 PM



Other In Hole

Des	OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)
CFP	4	3/24/2014	4/14/2014	12,250.0	12,252.0
CFP	4	3/23/2014	4/14/2014	12,432.0	12,434.0
CFP	4	3/23/2014	4/14/2014	12,608.0	12,610.0
CFP	4	3/23/2014	4/14/2014	12,800.0	12,802.0
CFP	4	3/23/2014	4/14/2014	12,977.0	12,979.0
CFP	4	3/22/2014	4/14/2014	13,159.0	13,161.0

Bottom Hole Cores

Date	Core #	Top (ftKB)	Btm (ftKB)	Recov (ft)