

Lease Review All CR																											
Well Name: RAZOR 21B-2812B																											
API Number 051233776600			WPC ID 1CO076964			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO													
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 4,858.30			Ground Elevation (ft) 4,837.30			Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,771.0														
Original Spud Date 12/19/2013		Completion Date 2/17/2014		Asset Group Redtail Asset Group			Responsible Engineer Andrew Fish			N/S Dist (ft) 406.0		N/S Ref FNL		E/W Dist (ft) 1,915.0		E/W Ref FEL											
Lot		Quarter 1 NW	Quarter 2 NE	Quarter 3	Quarter 4	Section 21	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian 6TH														
Lateral/Horizontal - Original Hole, 7/2/2014 2:35:06 PM														Wellbore Sections													
<div><div>MD (ftKB)</div><div>TV D (ftKB)</div><div>n cl (° B)</div><div>Vertical schematic (actual)</div><div>Logs</div></div>														Wellbore Name			Start Date		Size (in)		Act Top (ftKB)		Act Btm (ftKB)				
														Original Hole			10/14/2013		24		21.0		80.0				
														Original Hole			12/19/2013		13 1/2		80.0		1,670.0				
														Original Hole			12/20/2013		8 3/4		1,670.0		6,263.0				
														Original Hole			12/24/2013		6		6,263.0		12,771.0				
Conductor Pipe, 80.0ftKB																											
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des															
16		65.00		H-40		21.0		80.0		59.00		Casing Joints															
Surface Csg, 1,651.4ftKB																											
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des															
9 5/8		36.00		J-55		21.0		21.0		0.00		Landing Joint															
9 5/8		36.00		J-55		21.0		26.0		5.00		Pup Joint															
9 5/8		36.00		J-55		26.0		1,564.0		1,537.97		Casing Joints															
9 5/8		36.00		J-55		1,564.0		1,606.5		42.53		Casing Joints															
9 5/8				J-55		1,606.5		1,608.0		1.50		Float Collar															
9 5/8		36.00		J-55		1,608.0		1,649.9		41.86		Casing Joints															
9 5/8						1,649.9		1,651.4		1.50		Float Shoe															
Intermediate Csg, 6,242.0ftKB																											
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des															
7		29.00				21.0		21.0		0.00		Landing Joint															
7		29.00		L-80		21.0		28.0		7.00		Pup Joint															
7		29.00		L-80		28.0		6,195.6		6,167.62		Casing Joints															
7		29.00		L-80		6,195.6		6,197.1		1.50		Float Collar															
7		29.00		L-80		6,197.1		6,240.5		43.42		Casing Joints															
7		29.00		L-80		6,240.5		6,242.0		1.50		Float Shoe															
Liner, 12,761.0ftKB																											
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des															
4 1/2		11.60		L-80		5,187.0		5,207.6		20.61		ZXP/PBR Extension															
4 1/2		11.60		L-80		5,207.6		5,214.4		6.80		HMC Hanger															
4 1/2		11.60		L-80		5,214.4		5,215.4		1.01		Lower PBR															
4 1/2		11.60		L-80		5,215.4		5,220.9		5.49		Pup Joint															
4 1/2		11.60		L-80		5,220.9		12,617.1		7,396.19		Casing Joints															
4 1/2		11.60		L-80		12,617.1		12,623.1		6.03		Pup joint															
4 1/2		11.60		L-80		12,623.1		12,626.9		3.75		Alpha Sleeve															
4 1/2		11.60		L-80		12,626.9		12,629.0		2.09		Pup joint															
4 1/2		11.60		L-80		12,629.0		12,671.3		42.34		Casing Joints															
4 1/2		11.60		L-80		12,671.3		12,672.7		1.41		Landing collar															
4 1/2		11.60		L-80		12,672.7		12,673.7		0.98		Float Collar															
4 1/2		11.60		L-80		12,673.7		12,716.1		42.35		Casing Joints															
4 1/2		11.60		L-80		12,716.1		12,758.5		42.43		Casing Joints															
4 1/2		11.60		L-80		12,758.5		12,761.0		2.52		Float Shoe															
Cement Stages																											
Des		Pump Start Date		Drill Out Date		Top (ftKB)		Btm (ftKB)		Top Meas Meth																	
Conductor Cement		10/15/2013				21.0		80.0		Returns to Surface																	
Surface Casing Cement		12/19/2013				21.0		1,651.4		Returns to Surface																	
Intermediate Casing Cement		12/23/2013				21.0		6,242.0		Returns to Surface																	
Liner Cement		12/29/2013				5,187.0		12,761.0		Returns to Surface																	
Perforations																											
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone																			
Perforated Liner		2/17/2014		6,268.0		6,270.0		Niobrara, Original Hole																			
Perforated Liner		2/17/2014		6,306.0		6,308.0		Niobrara, Original Hole																			
Perforated Liner		2/17/2014		6,345.0		6,347.0		Niobrara, Original Hole																			
Perforated Liner		2/17/2014		6,426.0		6,428.0		Niobrara, Original Hole																			
Perforated Liner		2/17/2014		6,466.0		6,468.0		Niobrara, Original Hole																			
Perforated Liner		2/17/2014		6,506.0		6,508.0		Niobrara, Original Hole																			
Perforated Liner		2/17/2014		6,575.0		6,577.0		Niobrara, Original Hole																			
Perforated Liner		2/17/2014		6,618.0		6,620.0		Niobrara, Original Hole																			
Perforated Liner		2/17/2014		6,658.0		6,660.0		Niobrara, Original Hole																			
Perforated Liner		2/17/2014		6,747.0		6,749.0		Niobrara, Original Hole																			
Perforated Liner		2/17/2014		6,787.0		6,789.0		Niobrara, Original Hole																			



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Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,858.30		Ground Elevation (ft) 4,837.30		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,771.0		
Original Spud Date 12/19/2013		Completion Date 2/17/2014		Asset Group Redtail Asset Group			Responsible Engineer Andrew Fish			N/S Dist (ft) 406.0		N/S Ref FNL	E/W Dist (ft) 1,915.0		E/W Ref FEL
Lot	Quarter 1 NW	Quarter 2 NE	Quarter 3	Quarter 4	Section 21	Section Suffix	Section Type		Township 10	Township N/S Dir N	Range 58	Range E/W Dir W		Meridian 6TH	

Lateral/Horizontal - Original Hole, 7/2/2014 2:35:08 PM						Perforations				
MD (ftKB)	TV D (ftKB)	n cl (°)	Vertical schematic (actual)		Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
30.8	30.8	1.7				Perforated Liner	2/17/2014	6,826.0	6,828.0	Niobrara, Original Hole
1,649.9	1,649.9	2.4				Perforated Liner	2/17/2014	6,907.0	6,909.0	Niobrara, Original Hole
2,903.5	2,899.3	5.1				Perforated Liner	2/17/2014	6,947.0	6,949.0	Niobrara, Original Hole
4,477.0	4,469.2	1.3				Perforated Liner	2/17/2014	6,986.0	6,988.0	Niobrara, Original Hole
5,079.1	5,070.0	1.8				Perforated Liner	2/16/2014	7,068.0	7,070.0	Niobrara, Original Hole
5,220.8	5,211.0	2.5				Perforated Liner	2/16/2014	7,107.0	7,109.0	Niobrara, Original Hole
5,917.3	5,781.4	61.5				Perforated Liner	2/16/2014	7,147.0	7,149.0	Niobrara, Original Hole
6,240.5	5,864.1	86.1				Perforated Liner	2/16/2014	7,228.0	7,230.0	Niobrara, Original Hole
6,306.1	5,864.5	90.1				Perforated Liner	2/16/2014	7,268.0	7,270.0	Niobrara, Original Hole
6,428.1	5,865.1	88.8				Perforated Liner	2/16/2014	7,312.0	7,314.0	Niobrara, Original Hole
6,575.1	5,866.0	91.4				Perforated Liner	2/16/2014	7,397.0	7,399.0	Niobrara, Original Hole
6,660.1	5,864.0	91.4				Perforated Liner	2/16/2014	7,426.0	7,428.0	Niobrara, Original Hole
6,826.1	5,863.8	98.8				Perforated Liner	2/16/2014	7,467.0	7,469.0	Niobrara, Original Hole
6,949.1	5,862.4	86.1				Perforated Liner	2/16/2014	7,548.0	7,550.0	Niobrara, Original Hole
7,107.0	5,868.8	98.8				Perforated Liner	2/16/2014	7,588.0	7,590.0	Niobrara, Original Hole
7,230.0	5,871.8	98.1				Perforated Liner	2/16/2014	7,630.0	7,632.0	Niobrara, Original Hole
7,397.0	5,872.1	91.0				Perforated Liner	2/16/2014	7,709.0	7,711.0	Niobrara, Original Hole
7,469.2	5,870.7	91.6				Perforated Liner	2/16/2014	7,748.0	7,750.0	Niobrara, Original Hole
7,629.9	5,870.9	87.2				Perforated Liner	2/16/2014	7,788.0	7,790.0	Niobrara, Original Hole
7,750.0	5,872.5	90.8				Perforated Liner	2/16/2014	7,869.0	7,871.0	Niobrara, Original Hole
7,910.1	5,889.3	90.3				Perforated Liner	2/16/2014	7,910.0	7,912.0	Niobrara, Original Hole
8,028.9	5,888.6	90.2				Perforated Liner	2/16/2014	7,952.0	7,954.0	Niobrara, Original Hole
8,189.0	5,886.7	90.4				Perforated Liner	2/16/2014	8,027.0	8,029.0	Niobrara, Original Hole
8,271.0	5,887.7	91.0				Perforated Liner	2/16/2014	8,069.0	8,071.0	Niobrara, Original Hole
8,429.1	5,885.6	90.7				Perforated Liner	2/16/2014	8,108.0	8,110.0	Niobrara, Original Hole
8,551.8	5,880.3	98.3				Perforated Liner	2/16/2014	8,189.0	8,191.0	Niobrara, Original Hole
8,708.0	5,880.2	90.9				Perforated Liner	2/16/2014	8,229.0	8,231.0	Niobrara, Original Hole
8,833.0	5,880.8	98.4				Perforated Liner	2/16/2014	8,269.0	8,271.0	Niobrara, Original Hole
8,991.1	5,887.7	98.7				Perforated Liner	2/16/2014	8,350.0	8,352.0	Niobrara, Original Hole
9,071.9	5,889.2	98.1				Perforated Liner	2/16/2014	8,389.0	8,391.0	Niobrara, Original Hole
9,232.0	5,871.1	88.9				Perforated Liner	2/16/2014	8,429.0	8,431.0	Niobrara, Original Hole
9,347.1	5,889.9	91.3				Perforated Liner	2/16/2014	8,510.0	8,512.0	Niobrara, Original Hole
9,511.2	5,888.3	98.9				Perforated Liner	2/15/2014	8,550.0	8,552.0	Niobrara, Original Hole
9,633.9	5,889.1	98.4				Perforated Liner	2/15/2014	8,591.0	8,593.0	Niobrara, Original Hole
9,792.0	5,887.6	91.3				Perforated Liner	2/15/2014	8,666.0	8,668.0	Niobrara, Original Hole
9,873.0	5,886.2	90.9				Perforated Liner	2/15/2014	8,708.0	8,710.0	Niobrara, Original Hole
10,038.1	5,888.0	87.6				Perforated Liner	2/15/2014	8,749.0	8,751.0	Niobrara, Original Hole
10,149.9	5,872.4	98.3				Perforated Liner	2/15/2014	8,831.0	8,833.0	Niobrara, Original Hole
10,313.0	5,870.3	88.7				Perforated Liner	2/15/2014	8,870.0		Niobrara, Original Hole
10,435.0	5,876.6	91.1				Perforated Liner				
10,594.2	5,871.8	92.2				Perforated Liner				
10,674.9	5,889.1	91.6				Perforated Liner				
10,836.9	5,873.7	88.5				Perforated Liner				
10,956.0	5,881.6	86.1				Perforated Liner				
11,113.8	5,880.2	87.5				Perforated Liner				
11,236.9	5,884.1	88.7				Perforated Liner				
11,395.0	5,885.4	86.7				Perforated Liner				
11,480.0	5,880.6	91.9				Perforated Liner				
11,633.9	5,886.7	92.2				Perforated Liner				
11,756.9	5,882.5	91.9				Perforated Liner				
11,912.1	5,876.5	88.9				Perforated Liner				
12,036.1	5,871.5	91.8				Perforated Liner				
12,117.1	5,888.3	92.8				Perforated Liner				
12,274.9	5,880.5	93.0				Perforated Liner				
12,398.0	5,883.8	89.3				Perforated Liner				
12,556.1	5,940.9	90.7				Perforated Liner				
12,623.0	5,926.6	90.4				Perforated Liner				
12,673.6	5,920.0	94.7				Perforated Liner				
120,036.1	-3,807.1	40.2				Perforated Liner				



Lateral/Horizontal - Original Hole, 7/2/2014 2:35:09 PM				Perforations				
MD (ftKB)	TV D (ftKB B)	n cl (° B)		Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
			<div>Vertical schematic (actual)</div> <div>Logs</div>	Perforated Liner	2/14/2014	8,910.0	8,912.0	Niobrara, Original Hole
30.8	30.8	0.7		Perforated Liner	2/14/2014	8,991.0	8,993.0	Niobrara, Original Hole
1,649.9	1,648.5	2.4		Perforated Liner	2/14/2014	9,030.0	9,032.0	Niobrara, Original Hole
2,903.5	2,899.3	5.1		Perforated Liner	2/14/2014	9,070.0	9,072.0	Niobrara, Original Hole
4,477.0	4,469.2	4.2		Perforated Liner	2/14/2014	9,151.0	9,153.0	Niobrara, Original Hole
5,079.1	5,070.0	2.8		Perforated Liner	2/14/2014	9,191.0	9,193.0	Niobrara, Original Hole
5,220.8	5,211.6	2.5		Perforated Liner	2/14/2014	9,232.0	9,234.0	Niobrara, Original Hole
5,917.3	5,781.4	91.5		Perforated Liner	2/14/2014	9,314.0	9,316.0	Niobrara, Original Hole
6,240.5	5,984.1	99.1		Perforated Liner	2/14/2014	9,345.0	9,347.0	Niobrara, Original Hole
6,306.1	5,984.5	95.1		Perforated Liner	2/14/2014	9,390.0	9,392.0	Niobrara, Original Hole
6,428.1	5,885.1	88.8		Perforated Liner	2/14/2014	9,472.0	9,474.0	Niobrara, Original Hole
6,575.1	5,885.0	91.4		Perforated Liner	2/14/2014	9,511.0	9,513.0	Niobrara, Original Hole
6,660.1	5,884.0	91.4		Perforated Liner	2/14/2014	9,551.0	9,553.0	Niobrara, Original Hole
6,826.1	5,883.8	88.8		Perforated Liner	2/14/2014	9,591.0	9,593.0	Niobrara, Original Hole
6,949.1	5,885.4	89.1		Perforated Liner	2/14/2014	9,632.0	9,634.0	Niobrara, Original Hole
7,107.0	5,883.8	88.8		Perforated Liner	2/14/2014	9,671.0	9,673.0	Niobrara, Original Hole
7,230.0	5,871.8	89.1		Perforated Liner	2/14/2014	9,711.0	9,713.0	Niobrara, Original Hole
7,397.0	5,872.1	91.0		Perforated Liner	2/14/2014	9,792.0	9,794.0	Niobrara, Original Hole
7,469.2	5,870.7	91.6		Perforated Liner	2/14/2014	9,832.0	9,834.0	Niobrara, Original Hole
7,629.9	5,870.9	87.2		Perforated Liner	2/14/2014	9,871.0	9,873.0	Niobrara, Original Hole
7,750.0	5,872.5	90.9		Perforated Liner	2/14/2014	9,954.0	9,956.0	Niobrara, Original Hole
7,910.1	5,888.3	90.3		Perforated Liner	2/14/2014	9,996.0	9,998.0	Niobrara, Original Hole
8,028.9	5,888.5	90.2		Perforated Liner	2/14/2014	10,038.0	10,040.0	Niobrara, Original Hole
8,189.0	5,888.7	90.4		Perforated Liner	2/13/2014	10,079.0	10,081.0	Niobrara, Original Hole
8,271.0	5,887.7	91.0		Perforated Liner	2/13/2014	10,120.0	10,122.0	Niobrara, Original Hole
8,429.1	5,885.6	90.2		Perforated Liner	2/13/2014	10,161.0	10,163.0	Niobrara, Original Hole
8,551.8	5,885.3	89.3		Perforated Liner	2/13/2014	10,202.0	10,204.0	Niobrara, Original Hole
8,708.0	5,883.2	90.9		Perforated Liner	2/13/2014	10,243.0	10,245.0	Niobrara, Original Hole
8,833.0	5,883.8	88.4		Perforated Liner	2/13/2014	10,284.0	10,286.0	Niobrara, Original Hole
8,991.1	5,887.7	89.2		Perforated Liner	2/13/2014	10,325.0	10,327.0	Niobrara, Original Hole
9,071.9	5,883.2	89.1		Perforated Liner	2/13/2014	10,366.0	10,368.0	Niobrara, Original Hole
9,232.0	5,871.1	89.9		Perforated Liner	2/13/2014	10,407.0	10,409.0	Niobrara, Original Hole
9,347.1	5,889.9	91.3		Perforated Liner	2/13/2014	10,448.0	10,450.0	Niobrara, Original Hole
9,511.2	5,888.3	89.9		Perforated Liner	2/13/2014	10,489.0	10,491.0	Niobrara, Original Hole
9,633.9	5,883.1	89.4		Perforated Liner	2/13/2014	10,530.0	10,532.0	Niobrara, Original Hole
9,792.0	5,887.6	91.3		Perforated Liner	2/13/2014	10,571.0	10,573.0	Niobrara, Original Hole
9,873.0	5,888.2	90.9		Perforated Liner	2/13/2014	10,612.0	10,614.0	Niobrara, Original Hole
10,038.1	5,888.0	87.6		Perforated Liner	2/13/2014	10,653.0	10,655.0	Niobrara, Original Hole
10,149.9	5,872.4	89.2		Perforated Liner	2/13/2014	10,694.0	10,696.0	Niobrara, Original Hole
10,313.0	5,876.3	88.7		Perforated Liner	2/13/2014	10,735.0	10,737.0	Niobrara, Original Hole
10,435.0	5,876.6	91.1	Perforated Liner	2/13/2014	10,776.0	10,778.0	Niobrara, Original Hole	
10,594.2	5,871.8	90.3	Perforated Liner	2/13/2014	10,817.0	10,819.0	Niobrara, Original Hole	
10,674.9	5,880.1	91.6	Perforated Liner	2/13/2014	10,858.0	10,860.0	Niobrara, Original Hole	
10,836.9	5,873.7	88.5	Perforated Liner	2/13/2014	10,899.0	10,901.0	Niobrara, Original Hole	
10,956.0	5,881.6	88.1	Perforated Liner	2/13/2014	10,940.0	10,942.0	Niobrara, Original Hole	
11,113.8	5,880.2	87.5	Perforated Liner	2/13/2014	10,981.0	10,983.0	Niobrara, Original Hole	
11,236.9	5,884.1	88.7	Perforated Liner	2/12/2014	11,022.0	11,024.0	Niobrara, Original Hole	
11,395.0	5,885.4	89.7	Perforated Liner	2/12/2014	11,063.0	11,065.0	Niobrara, Original Hole	
11,480.0	5,883.0	91.9	Perforated Liner	2/12/2014	11,104.0	11,106.0	Niobrara, Original Hole	
11,633.9	5,886.7	90.3	Perforated Liner	2/12/2014	11,145.0	11,147.0	Niobrara, Original Hole	
11,756.9	5,882.5	91.9	Perforated Liner	2/12/2014	11,186.0	11,188.0	Niobrara, Original Hole	
11,912.1	5,878.5	92.8	Perforated Liner	2/12/2014	11,227.0	11,229.0	Niobrara, Original Hole	
12,036.1	5,871.5	91.8	Perforated Liner	2/12/2014	11,268.0	11,270.0	Niobrara, Original Hole	
12,117.1	5,888.3	92.8	Perforated Liner	2/12/2014	11,309.0	11,311.0	Niobrara, Original Hole	
12,274.9	5,880.5	93.0	Perforated Liner	2/12/2014	11,350.0	11,352.0	Niobrara, Original Hole	
12,398.0	5,883.8	92.9	Perforated Liner	2/12/2014	11,391.0	11,393.0	Niobrara, Original Hole	
12,556.1	5,840.3	95.7	Perforated Liner	2/12/2014	11,432.0	11,434.0	Niobrara, Original Hole	
12,623.0	5,834.6	96.4	Perforated Liner	2/12/2014	11,473.0	11,475.0	Niobrara, Original Hole	
12,673.6	5,830.0	94.7	Perforated Liner	2/12/2014	11,514.0	11,516.0	Niobrara, Original Hole	
120,036.1	-0.807.1	95.2						

Lease Review All CR															
Well Name: RAZOR 21B-2812B															
API Number 051233776600			WPC ID 1CO076964			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO	
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 4,858.30			Ground Elevation (ft) 4,837.30			Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,771.0		
Original Spud Date 12/19/2013		Completion Date 2/17/2014		Asset Group Redtail Asset Group			Responsible Engineer Andrew Fish			N/S Dist (ft) 406.0		N/S Ref FNL		E/W Dist (ft) 1,915.0	E/W Ref FEL
Lot		Quarter 1 NW	Quarter 2 NE	Quarter 3	Quarter 4	Section 21	Section Suffix	Section Type		Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian 6TH	
Lateral/Horizontal - Original Hole, 7/2/2014 2:35:10 PM						Perforations									
MD (ftKB)	TV D (ftKB)	n cl (° B)	Vertical schematic (actual)	Logs											
					Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone						
					Perforated Liner	2/12/2014	10,993.0	10,995.0	Niobrara, Original Hole						
30.8	30.8	0.7			Perforated Liner	2/11/2014	11,074.0	11,076.0	Niobrara, Original Hole						
1,649.9	1,648.5	3.4			Perforated Liner	2/11/2014	11,114.0	11,116.0	Niobrara, Original Hole						
2,903.5	2,899.3	5.1			Perforated Liner	2/11/2014	11,154.0	11,156.0	Niobrara, Original Hole						
4,477.0	4,469.2	14.2			Perforated Liner	2/11/2014	11,235.0	11,237.0	Niobrara, Original Hole						
5,079.1	5,070.0	28.8			Perforated Liner	2/11/2014	11,235.0	11,237.0	Niobrara, Original Hole						
5,220.8	5,211.6	35.5			Perforated Liner	2/11/2014	11,274.0	11,276.0	Niobrara, Original Hole						
5,917.3	5,781.4	61.5			Perforated Liner	2/11/2014	11,314.0	11,316.0	Niobrara, Original Hole						
6,240.5	5,884.1	88.1			Perforated Liner	2/11/2014	11,314.0	11,316.0	Niobrara, Original Hole						
6,306.1	5,884.5	88.1			Perforated Liner	2/11/2014	11,395.0	11,397.0	Niobrara, Original Hole						
6,428.1	5,885.1	88.8			Perforated Liner	2/11/2014	11,395.0	11,397.0	Niobrara, Original Hole						
6,575.1	5,885.0	91.4			Perforated Liner	2/11/2014	11,435.0	11,437.0	Niobrara, Original Hole						
6,660.1	5,884.0	91.4			Perforated Liner	2/11/2014	11,435.0	11,437.0	Niobrara, Original Hole						
6,826.1	5,883.8	88.8			Perforated Liner	2/11/2014	11,478.0	11,480.0	Niobrara, Original Hole						
6,949.1	5,882.4	88.1			Perforated Liner	2/11/2014	11,562.0	11,564.0	Niobrara, Original Hole						
7,107.0	5,883.8	88.8			Perforated Liner	2/11/2014	11,562.0	11,564.0	Niobrara, Original Hole						
7,230.0	5,871.8	88.1			Perforated Liner	2/11/2014	11,595.0	11,597.0	Niobrara, Original Hole						
7,397.0	5,872.1	91.0			Perforated Liner	2/11/2014	11,634.0	11,636.0	Niobrara, Original Hole						
7,469.2	5,870.7	91.6			Perforated Liner	2/11/2014	11,634.0	11,636.0	Niobrara, Original Hole						
7,629.9	5,870.9	87.2			Perforated Liner	2/11/2014	11,715.0	11,717.0	Niobrara, Original Hole						
7,750.0	5,872.5	90.9			Perforated Liner	2/11/2014	11,715.0	11,717.0	Niobrara, Original Hole						
7,910.1	5,889.3	98.3			Perforated Liner	2/11/2014	11,755.0	11,757.0	Niobrara, Original Hole						
8,028.9	5,888.6	98.2			Perforated Liner	2/11/2014	11,795.0	11,797.0	Niobrara, Original Hole						
8,189.0	5,888.7	90.4			Perforated Liner	2/11/2014	11,880.0	11,882.0	Niobrara, Original Hole						
8,271.0	5,887.7	91.0			Perforated Liner	2/11/2014	11,880.0	11,882.0	Niobrara, Original Hole						
8,429.1	5,885.6	98.7			Perforated Liner	2/11/2014	11,912.0	11,914.0	Niobrara, Original Hole						
8,551.8	5,885.3	98.3			Perforated Liner	2/11/2014	11,955.0	11,957.0	Niobrara, Original Hole						
8,708.0	5,883.2	90.9			Perforated Liner	2/11/2014	11,955.0	11,957.0	Niobrara, Original Hole						
8,833.0	5,883.8	88.4			Perforated Liner	2/10/2014	12,036.0	12,038.0	Niobrara, Original Hole						
8,991.1	5,887.7	88.7			Perforated Liner	2/10/2014	12,076.0	12,078.0	Niobrara, Original Hole						
9,071.9	5,889.2	88.1			Perforated Liner	2/10/2014	12,076.0	12,078.0	Niobrara, Original Hole						
9,232.0	5,871.1	88.9			Perforated Liner	2/10/2014	12,115.0	12,117.0	Niobrara, Original Hole						
9,347.1	5,889.9	91.3			Perforated Liner	2/10/2014	12,115.0	12,117.0	Niobrara, Original Hole						
9,511.2	5,888.3	88.9			Perforated Liner	2/10/2014	12,196.0	12,198.0	Niobrara, Original Hole						
9,633.9	5,888.1	88.4			Perforated Liner	2/10/2014	12,236.0	12,238.0	Niobrara, Original Hole						
9,792.0	5,887.6	91.3			Perforated Liner	2/10/2014	12,236.0	12,238.0	Niobrara, Original Hole						
9,873.0	5,886.2	88.9			Perforated Liner	2/10/2014	12,275.0	12,277.0	Niobrara, Original Hole						
10,038.1	5,888.0	87.6			Perforated Liner	2/10/2014	12,357.0	12,359.0	Niobrara, Original Hole						
10,149.9	5,872.4	88.3			Perforated Liner	2/10/2014	12,357.0	12,359.0	Niobrara, Original Hole						
10,313.0	5,878.3	88.7			Perforated Liner	2/10/2014	12,396.0	12,398.0	Niobrara, Original Hole						
10,435.0	5,876.6	91.1			Perforated Liner	2/10/2014	12,396.0	12,398.0	Niobrara, Original Hole						
10,594.2	5,871.8	92.2			Perforated Liner	2/10/2014	12,436.0	12,438.0	Niobrara, Original Hole						
10,674.9	5,880.1	91.6			Perforated Liner	2/9/2014	12,517.0	12,519.0	Niobrara, Original Hole						
10,836.9	5,873.7	88.5			Perforated Liner	2/9/2014	12,517.0	12,519.0	Niobrara, Original Hole						
10,956.0	5,881.6	86.1			Perforated Liner	2/9/2014	12,556.0	12,558.0	Niobrara, Original Hole						
11,113.8	5,880.2	87.5			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
11,236.9	5,884.1	88.7			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
11,395.0	5,885.4	88.7			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
11,480.0	5,880.6	91.9			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
11,633.9	5,886.7	92.2			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
11,756.9	5,882.5	91.9			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
11,912.1	5,878.5	88.9			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
12,036.1	5,871.5	91.8			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
12,117.1	5,888.3	92.8			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
12,274.9	5,880.5	93.0			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
12,398.0	5,883.8	88.3			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
12,556.1	5,940.9	95.7			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
12,623.0	5,924.6	95.4			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
12,673.6	5,920.0	94.7			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
120,036.1	5,887.1	88.2			Perforated Liner	2/9/2014	12,596.0	12,598.0	Niobrara, Original Hole						
Stim/Treat Stages															
Stage Type		Start Date		Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid				Vol Clean Pump (bbl)					
Frac		2/17/2014		6,268.0	6,345.0	3113# 40/70, 0# 20/40, 130635# 16/30, Slick Water				2954.00					
Frac		2/17/2014		6,426.0	6,506.0	3021# 40/70, 149987# 20/40, Slick Water				3015.00					
Frac		2/17/2014		6,575.0	6,658.0	3016# 40/70, 150883# 20/40, Slick Water				3024.00					
Frac		2/17/2014		6,747.0	6,826.0	6199# 40/70, 160731# 20/40, Slick Water				3024.00					
Frac		2/16/2014		6,907.0	6,986.0	2982# 40/70, 149146# 20/40, Slick Water				3029.00					
Frac		2/16/2014		7,068.0	7,147.0	3082# 40/70, 151149# 20/40, Slick Water				3037.00					

Lease Review All CR																	
Well Name: RAZOR 21B-2812B																	
API Number 051233776600			WPC ID 1CO076964			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO			
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 4,858.30			Ground Elevation (ft) 4,837.30			Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,771.0				
Original Spud Date 12/19/2013		Completion Date 2/17/2014		Asset Group Redtail Asset Group			Responsible Engineer Andrew Fish			N/S Dist (ft) 406.0		N/S Ref FNL		E/W Dist (ft) 1,915.0		E/W Ref FEL	
Lot		Quarter 1 NW	Quarter 2 NE	Quarter 3	Quarter 4	Section 21	Section Suffix	Section Type		Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian 6TH			
Lateral/Horizontal - Original Hole, 7/2/2014 2:35:11 PM						Stim/Treat Stages											
MD (ftKB)		TV D (ftKB)	n cl (°)	Vertical schematic (actual)			Logs	Stage Type	Start Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid		Vol Clean Pump (bbl)			
								Frac	2/16/2014	7,228.0	7,312.0	3033# 40/70, 149637# 20/40, Slick Water		3024.00			
30.8		30.8	0.7					Frac	2/16/2014	7,397.0	7,467.0	3003# 40/70, 150225# 20/40, Slick Water		3034.00			
1,649.9		1,648.5	3.4					Frac	2/16/2014	7,548.0	7,630.0	3014# 40/70, 150823# 20/40, Slick Water		3040.00			
2,903.5		2,889.3	5.1					Frac	2/16/2014	7,709.0	7,788.0	3038# 40/70, 150939# 20/40, Slick Water		3042.00			
4,477.0		4,460.2	4.2					Frac	2/15/2014	7,869.0	7,952.0	3063# 40/70, 151855# 20/40, Slick Water		3051.00			
5,079.1		5,070.0	2.8					Frac	2/15/2014	8,027.0	8,108.0	3119# 40/70, 149147# 20/40, Slick Water		3043.00			
5,220.8		5,211.6	2.5					Frac	2/15/2014	8,189.0	8,269.0	3281# 40/70, 147865# 20/40, Slick Water		3056.00			
5,917.3		5,781.4	81.5					Frac	2/15/2014	8,350.0	8,429.0	3001# 40/70, 147503# 20/40, Slick Water		3033.00			
6,240.5		5,884.1	88.1					Frac	2/15/2014	8,510.0	8,591.0	3125# 40/70, 150961# 20/40, Slick Water		3057.00			
6,306.1		5,884.5	88.1					Frac	2/14/2014	8,666.0	8,749.0	3100# 40/70, 153503# 20/40, Slick Water		3071.00			
6,428.1		5,885.1	88.8					Frac	2/14/2014	8,831.0	8,910.0	3203# 40/70, 152130# 20/40, Slick Water		3067.00			
6,575.1		5,886.0	91.4					Frac	2/14/2014	8,991.0	9,070.0	3102# 40/70, 149709# 20/40, Slick Water		3062.00			
6,660.1		5,884.0	91.4					Frac	2/14/2014	9,151.0	9,232.0	3210# 40/70, 151241# 20/40, Slick Water		3078.00			
6,826.1		5,883.8	88.8					Frac	2/14/2014	9,314.0	9,390.0	3064# 40/70, 147710# 20/40, Slick Water		3058.00			
6,949.1		5,886.4	88.1					Frac	2/14/2014	9,472.0	9,551.0	2900# 40/70, 149301# 20/40, Slick Water		3066.00			
7,107.0		5,888.8	88.8					Frac	2/13/2014	9,632.0	9,711.0	3060# 40/70, 149180# 20/40, Slick Water		3062.00			
7,230.0		5,871.8	88.1					Frac	2/13/2014	9,792.0	9,871.0	3058# 40/70, 150733# 20/40, Slick Water		3075.00			
7,387.0		5,872.1	91.0					Frac	2/13/2014	9,954.0	10,038.0	3000# 40/70, 149803# 20/40, Slick Water		3073.00			
7,469.2		5,870.7	91.6					Frac	2/13/2014	10,120.0	10,188.0	3268# 40/70, 149988# 20/40, Slick Water		3075.00			
7,629.9		5,870.9	87.2					Frac	2/12/2014	10,433.0	10,512.0	3052# 40/70, 68986# 20/40, Slick Water		2514.00			
7,750.0		5,872.5	88.8					Frac	2/12/2014	10,594.0	10,673.0	3113# 40/70, 150465# 20/40, Slick Water		3125.00			
7,910.1		5,888.3	88.3					Frac	2/12/2014	10,754.0	10,837.0	3104# 40/70, 152987# 20/40, Slick Water		3130.00			
8,028.9		5,888.6	88.2					Frac	2/12/2014	10,912.0	10,995.0	3098# 40/70, 151648# 20/40, Slick Water		3123.00			
8,189.0		5,888.7	88.4					Frac	2/12/2014	11,074.0	11,154.0	2976# 40/70, 151869# 20/40, Slick Water		3230.00			
8,271.0		5,887.7	91.0					Frac	2/11/2014	11,235.0	11,314.0	2813# 40/70, 149749# 20/40, Slick Water		3114.00			
8,429.1		5,885.6	88.7					Frac	2/11/2014	11,395.0	11,478.0	3005# 40/70, 148281# 20/40, Slick Water		3081.00			
8,551.8		5,888.3	88.3					Frac	2/11/2014	11,562.0	11,634.0	3088# 40/70, 78700# 20/40, Slick Water		2685.00			
8,708.0		5,883.2	88.8					Frac	2/11/2014	11,715.0	11,975.0	3082# 40/70, 83441# 20/40, Slick Water		2789.00			
8,833.0		5,888.8	88.4					Frac	2/10/2014	11,880.0	11,955.0	3063# 40/70, 150207# 20/40, Slick Water		3190.00			
8,991.1		5,887.7	88.7					Frac	2/10/2014	12,196.0	12,275.0	3193# 40/70, 149839# 20/40, Slick Water		3173.00			
9,071.9		5,888.2	88.1					Frac	2/9/2014	12,357.0	12,596.0	3099# 40/70, 149549# 20/40, Slick Water		3150.00			
9,232.0		5,871.1	88.8					Frac	2/9/2014	12,517.0	12,596.0	3152# 40/70, 152025# 20/40, Slick Water		3161.00			
9,347.1		5,888.9	91.8					Frac	2/10/2014	120,036.0	12,115.0	2897# 40/70, 149195# 20/40, Slick Water		3224.00			
9,511.2		5,888.3	88.8					Tubing - Production set at 5,929.0ftKB on 2/24/2014 12:32									
9,633.9		5,888.1	88.4					Set Depth (ftKB) 5,929.0	Comment			Run Date 2/24/2014		Pull Date			
9,792.0		5,887.6	91.3					Item Des	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)				
9,873.0		5,888.2	88.8					Tubing	2 7/8	2.441	31.36	-10.5	20.9				
10,038.1		5,888.0	87.6					Tubing Sub	2 7/8	2.441	10.00	20.9	30.9				
10,149.9		5,872.4	88.2					Tubing	2 7/8	2.441	1,679.23	30.9	1,710.1				
10,313.0		5,878.3	88.7					Gas Lift Mandrel	2 7/8		4.05	1,710.1	1,714.1				
10,435.0		5,878.6	91.1					Tubing	2 7/8	2.441	1,189.31	1,714.1	2,903.4				
10,594.2		5,871.8	88.2														
10,674.9		5,888.1	91.6														
10,836.9		5,873.7	88.5														
10,956.0		5,881.6	88.1														
11,113.8		5,880.2	87.5														
11,236.9		5,884.1	88.7														
11,385.0		5,886.4	88.7														
11,480.0		5,883.8	91.8														
11,633.9		5,886.7	88.2														
11,756.9		5,882.5	91.8														
11,912.1		5,878.5	88.8														
12,036.1		5,871.5	91.8														
12,117.1		5,888.3	88.8														
12,274.9		5,888.5	91.0														
12,388.0		5,883.8	88.3														
12,556.1		5,880.9	88.7														
12,623.0		5,884.6	88.4														
12,673.6		5,880.0	94.7														
120,036.1		-1,887.1	92.2														



Lease Review All CR
Well Name: RAZOR 21B-2812B

API Number 051233776600			WPC ID 1C0076964			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld			State CO		
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,858.30		Ground Elevation (ft) 4,837.30		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)			Total Depth (ftKB) 12,771.0			
Original Spud Date 12/19/2013		Completion Date 2/17/2014		Asset Group Redtail Asset Group			Responsible Engineer Andrew Fish			N/S Dist (ft) 406.0		N/S Ref FNL		E/W Dist (ft) 1,915.0		E/W Ref FEL	
Lot		Quarter 1 NW	Quarter 2 NE	Quarter 3	Quarter 4	Section 21	Section Suffix	Section Type		Township 10 N	Township N/S Dir	Range 58 W	Range E/W Dir		Meridian 6TH		

Lateral/Horizontal - Original Hole, 7/2/2014 2:35:12 PM				Item Des	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)		
MD (ftKB)	TV D (ftKB)	n cl (°)									
30.8	30.8	0.7		Gas Lift Mandrel	2 7/8		4.05	2,903.4	2,907.5		
				Tubing	2 7/8	2.441	907.36	2,907.5	3,814.9		
1,649.9	1,648.5	2.4		Gas Lift Mandrel	2 7/8		4.05	3,814.9	3,818.9		
				Tubing	2 7/8	2.441	654.12	3,818.9	4,473.0		
2,903.5	2,899.3	5.1		Gas Lift Mandrel	2 7/8		4.05	4,473.0	4,477.1		
				Tubing	2 7/8	2.441	501.31	4,477.1	4,978.4		
4,477.0	4,468.2	4.2		Gas Lift Mandrel	2 7/8		4.05	4,978.4	4,982.4		
				Tubing	2 7/8	2.441	94.02	4,982.4	5,076.5		
5,079.1	5,070.0	2.8		Cup Seating Nipple	2 7/8		1.10	5,076.5	5,077.6		
				Cross Over 2-7/8" X 2-3/8"	2 7/8		1.50	5,077.6	5,079.1		
5,220.8	5,211.6	2.5		Tubing	2 7/8	2.441	308.96	5,079.1	5,388.0		
5,917.3	5,781.4	61.0		Gas Lift Mandrel	2 7/8		4.05	5,388.0	5,392.1		
				Tubing	2 7/8	2.441	461.34	5,392.1	5,853.4		
6,240.5	5,884.1	86.1		Gas Lift Mandrel / Orifice Valve	2 7/8		4.05	5,853.4	5,857.5		
				Tubing	2 7/8	2.441	59.95	5,857.5	5,917.4		
6,306.1	5,884.5	86.1		On-Off Tool	2 7/8		1.10	5,917.4	5,918.5		
6,428.1	5,885.1	88.8		Packer	7		10.50	5,918.5	5,929.0		
6,575.1	5,885.0	91.4		Rod Strings							
				<des> on <dtmrun>							
6,660.1	5,884.0	91.4		Rod Description			Run Date		Pull Date		
6,826.1	5,883.8	88.8		Item Des			OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)	
6,949.1	5,885.4	86.1									
7,107.0	5,883.9	88.8		Other Strings							
				Set Depth (ftKB)			Comment		Run Date	Pull Date	
7,230.0	5,871.9	86.1		Item Des			OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)	
7,397.0	5,871.1	91.0									
7,469.2	5,870.7	91.6		Other In Hole							
				Des			OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)
7,629.9	5,870.5	87.2		CFP			4	2/17/2014	2/21/2014	5,320.0	5,322.0
7,750.0	5,872.5	90.9		CFP			4	2/17/2014	2/21/2014	6,387.0	6,389.0
7,910.1	5,880.3	86.3		CFP			4	2/17/2014	2/21/2014	6,560.0	6,562.0
8,028.9	5,888.6	86.2		CFP			4	2/17/2014	2/21/2014	6,694.0	6,696.0
8,189.0	5,888.7	86.4		CFP			4	2/17/2014	2/21/2014	6,862.0	6,864.0
8,271.0	5,887.7	91.9		CFP			4	2/17/2014	2/21/2014	7,028.0	7,030.0
8,429.1	5,885.6	86.7		CFP			4	2/17/2014	2/21/2014	7,188.0	7,190.0
8,551.8	5,885.3	86.3		CFP			4	2/17/2014	2/21/2014	7,338.0	7,340.0
8,708.0	5,883.2	86.8		CFP			4	2/17/2014	2/21/2014	7,504.0	7,506.0
8,833.0	5,883.8	86.4		CFP			4	2/16/2014	2/21/2014	7,669.0	7,671.0
8,991.1	5,887.7	86.7		CFP			4	2/16/2014	2/21/2014	7,829.0	7,831.0
9,071.9	5,888.2	86.1		CFP			4	2/16/2014	2/21/2014	7,998.0	8,000.0
9,232.0	5,871.1	86.8		CFP			4	2/16/2014	2/22/2014	8,150.0	8,152.0
9,347.1	5,888.9	91.3		CFP			4	2/16/2014	2/22/2014	8,310.0	8,312.0
9,511.2	5,888.3	88.9		CFP			4	2/15/2014	2/22/2014	8,470.0	8,472.0
9,633.9	5,888.1	86.4		CFP			4	2/15/2014	2/22/2014	8,638.0	8,640.0
9,792.0	5,887.6	91.3		CFP			4	2/15/2014	2/22/2014	8,790.0	8,792.0
9,873.0	5,888.2	86.9		CFP			4	2/15/2014	2/22/2014	8,951.0	8,953.0
10,038.1	5,888.0	87.6		CFP			4	2/14/2014	2/22/2014	9,112.0	9,114.0
10,149.9	5,871.4	88.2		CFP			4	2/14/2014	2/22/2014	9,280.0	9,282.0
10,313.0	5,878.3	86.7		CFP			4	2/14/2014	2/22/2014	9,428.0	9,430.0
10,435.0	5,878.5	91.1		CFP			4	2/14/2014	2/22/2014	9,590.0	9,592.0
10,594.2	5,871.8	88.2		CFP			4	2/14/2014	2/22/2014	9,753.0	9,755.0
10,674.9	5,888.1	91.6		CFP			4	2/13/2014	2/22/2014	9,913.0	9,915.0
10,836.9	5,873.7	86.5		CFP			4	2/13/2014	2/22/2014	10,084.0	10,086.0
10,956.0	5,881.6	86.1		CFP			4	2/13/2014	2/22/2014	10,224.0	10,226.0
11,113.8	5,888.2	87.6		CFP			4	2/13/2014	2/22/2014	10,392.0	10,394.0
11,236.9	5,884.1	86.7		CFP			4	2/13/2014	2/22/2014	10,554.0	10,556.0
11,395.0	5,885.4	86.7		CFP			4	2/12/2014	2/22/2014	10,714.0	10,716.0
11,480.0	5,883.6	91.9		CFP			4	2/12/2014	2/22/2014	10,885.0	10,887.0
11,633.9	5,888.7	88.2		CFP			4	2/12/2014	2/22/2014	11,028.0	11,030.0
11,756.9	5,888.5	91.9		CFP			4	2/11/2014	2/22/2014	11,195.0	11,197.0
11,912.1	5,878.5	88.8		CFP			4	2/11/2014	2/22/2014	11,355.0	11,357.0
12,036.1	5,871.5	91.8		CFP			4	2/11/2014	2/22/2014	11,524.0	11,526.0
12,117.1	5,888.2	88.8		CFP			4	2/11/2014	2/22/2014	11,671.0	11,673.0
12,274.9	5,888.5	88.0		CFP			4	2/11/2014	2/22/2014	11,836.0	11,838.0
12,398.0	5,883.8	86.3		CFP			4	2/10/2014	2/22/2014	11,996.0	11,998.0
12,556.1	5,840.9	86.7		CFP			4	2/10/2014	2/22/2014	12,151.0	12,153.0
12,623.0	5,884.6	86.4		CFP			4	2/10/2014	2/22/2014	12,317.0	12,319.0
12,673.6	5,888.0	84.7		CFP			4	2/10/2014	2/22/2014	12,480.0	12,482.0
120,036.1	5,887.1	86.2		CFP			4	2/9/2014	2/22/2014	12,598.0	12,600.0



Lease Review All CR
Well Name: RAZOR 21B-2812B

API Number 051233776600	WPC ID 1C0076964	Well Permit Number	Field Name DJ Horizontal Niobrara	County Weld	State CO
Well Configuration Type Lateral/Horizontal	Orig KB Elv (ft) 4,858.30	Ground Elevation (ft) 4,837.30	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB) 12,771.0
Original Spud Date 12/19/2013	Completion Date 2/17/2014	Asset Group Redtail Asset Group	Responsible Engineer Andrew Fish	N/S Dist (ft) 406.0	N/S Ref FNL
				E/W Dist (ft) 1,915.0	E/W Ref FEL
Lot	Quarter 1 NW	Quarter 2 NE	Quarter 3	Quarter 4	Section 21
					Section Suffix
					Section Type
					Township 10 N
					Range 58 W
					Meridian 6TH

Lateral/Horizontal - Original Hole, 7/2/2014 2:35:14 PM						Bottom Hole Cores				
MD (ftKB)	TV D (ftK B)	n cl (°)	Vertical schematic (actual)	Logs		Date	Core #	Top (ftKB)	Btm (ftKB)	Recov (ft)
30.8	30.8	1.7								
1,649.9	1,649.5	2.4								
2,903.5	2,899.3	5.1								
4,477.0	4,469.2	4.3								
5,079.1	5,070.0	1.8								
5,229.8	5,211.0	17.5								
5,917.3	5,781.4	81.5								
6,240.5	5,864.1	58.1								
6,306.1	5,864.5	58.1								
6,428.1	5,861.1	88.8								
6,575.1	5,860.0	91.4								
6,660.1	5,864.0	91.4								
6,826.1	5,803.8	58.8								
6,949.1	5,802.4	88.1								
7,107.0	5,808.8	88.8								
7,230.0	5,871.8	58.1								
7,397.0	5,872.1	91.0								
7,469.2	5,870.7	91.6								
7,629.9	5,870.9	87.2								
7,750.0	5,872.5	90.8								
7,910.1	5,880.3	90.3								
8,028.9	5,888.6	90.2								
8,189.0	5,886.7	90.4								
8,271.0	5,887.7	91.0								
8,429.1	5,885.6	90.7								
8,551.8	5,880.3	90.3								
8,708.0	5,880.2	90.9								
8,833.0	5,880.8	88.4								
8,991.1	5,887.7	88.7								
9,071.9	5,889.2	88.1								
9,232.0	5,871.1	88.9								
9,347.1	5,889.9	91.3								
9,511.2	5,888.3	88.9								
9,633.9	5,880.1	88.4								
9,792.0	5,887.6	91.3								
9,873.0	5,886.2	90.9								
10,038.1	5,888.0	87.6								
10,149.9	5,872.4	88.3								
10,313.0	5,876.3	88.7								
10,435.0	5,876.6	91.1								
10,594.2	5,871.8	92.2								
10,674.9	5,880.1	91.6								
10,836.9	5,873.7	88.5								
10,956.0	5,881.6	86.1								
11,113.8	5,880.2	87.5								
11,236.9	5,884.1	88.7								
11,395.0	5,885.4	88.7								
11,480.0	5,880.6	91.9								
11,633.9	5,886.7	92.2								
11,756.9	5,882.5	91.9								
11,912.1	5,876.5	88.8								
12,036.1	5,871.5	91.8								
12,117.1	5,888.3	92.8								
12,274.9	5,880.5	93.0								
12,398.0	5,883.8	89.3								
12,556.1	5,940.3	95.7								
12,623.0	5,954.6	95.4								
12,673.6	5,920.0	94.7								
120,036.1	-3,807.1	40.2								