



Lateral/Horizontal - Original Hole, 5/19/2014 3:43:11 PM				Wellbore Sections						
MD (ftKB)	TV D (ftKB B)	n cl (°)		Logs						
Vertical schematic (actual)										
49.2	49.2	54								
1,192.6	1,190.5	47								
1,941.9	1,937.5	55								
3,514.4	3,506.7	53								
4,517.7	4,509.0	54								
5,023.0	5,014.2	54								
5,618.1	5,553.0	52.8								
6,313.3	5,706.7	58.8								
6,374.0	5,706.3	59.8								
6,480.0	5,595.2	59.1								
6,657.2	5,705.3	59.1								
6,834.0	5,707.3	58.7								
7,009.8	5,711.7	58.1								
7,187.0	5,717.7	58.5								
7,368.1	5,723.7	59.5								
7,547.9	5,721.8	59.9								
7,711.9	5,721.8	60.2								
7,895.0	5,722.2	59.4								
8,071.9	5,721.0	59.9								
8,248.0	5,718.9	59.9								
8,424.9	5,715.6	59.4								
8,602.0	5,711.3	59.4								
8,778.9	5,712.1	59.7								
8,956.0	5,713.1	59.4								
9,132.9	5,714.8	59.9								
9,309.1	5,714.1	59.5								
9,444.9	5,714.9	59.2								
9,621.1	5,713.2	59.7								
9,804.1	5,711.5	59.4								
9,970.1	5,710.1	59.6								
10,151.9	5,709.9	59.5								
10,329.1	5,711.5	59.0								
10,505.9	5,717.7	57.5								
10,683.1	5,726.4	57.1								
10,858.9	5,733.3	56.9								
11,036.1	5,732.8	56.4								
11,212.9	5,733.2	56.2								
11,390.1	5,735.7	56.4								
11,566.9	5,740.4	56.2								
11,744.1	5,740.0	56.5								
11,922.9	5,737.7	56.0								
12,089.9	5,762.6	56.5								
12,272.0	5,769.5	56.1								
12,451.1	5,775.7	57.6								
12,626.0	5,778.6	56.1								
12,803.1	5,779.6	56.3								
12,980.0	5,780.1	56.5								
13,155.8	5,776.8	57.5								
13,333.0	5,775.0	59.1								
13,404.5	5,780.4	54.2								
5,780.6	54.4									

Wellbore Name		Start Date	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
Original Hole		9/20/2013	20	16.8	96.8	
Original Hole		9/22/2013	13 1/2	96.8	1,595.0	
Original Hole		9/24/2013	8 3/4	1,595.0	6,375.0	
Original Hole		9/27/2013	6	6,375.0	13,470.0	
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	96.8	80.00	Casing Joints
Surface Csg, 1,579.9ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
9 5/8	36.00	J-55	16.8	16.8	0.00	Landing Joint
9 5/8	36.00	J-55	16.8	22.8	6.00	PUP Joint Wellhead
9 5/8	36.00	J-55	22.8	1,532.5	1,509.65	Casing Joints
9 5/8	36.00	J-55	1,532.5	1,534.0	1.50	Float Collar
9 5/8	36.00	J-55	1,534.0	1,578.4	44.43	Casing Joints
9 5/8	36.00	J-55	1,578.4	1,579.9	1.50	Float Shoe
Intermediate Csg, 6,359.6ftKB						
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	1,102.7	1,080.86	Casing Joints
7	26.00	L-80	1,102.7	1,146.6	43.95	Casing Joints
7	29.00	L-80	1,146.6	6,313.2	5,166.58	Casing Joints
7	29.00	L-80	6,313.2	6,314.7	1.50	Float Collar
7	29.00	L-80	6,314.7	6,358.1	43.40	Casing Joints
7	29.00	L-80	6,358.1	6,359.6	1.50	Float Shoe
Liner, 13,460.0ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
4 1/2	11.60	SeAH-90	4,995.7	4,995.7	0.00	Casing Joints
4 1/2	11.60	SeAH-90	4,995.7	5,016.4	20.72	ZXP LINER TOP PACKER
4 1/2	11.60	SeAH-90	5,016.4	5,023.1	6.66	HMC LINER HANGER
4 1/2	11.60	SeAH-90	5,023.1	5,024.1	1.01	COMBO COLLAR VAMLTC
4 1/2	11.60	SeAH-90	5,024.1	13,358.4	8,334.29	Casing Joints
4 1/2	11.60	SeAH-90	13,358.4	13,403.5	45.12	Casing Joints
4 1/2	11.60	SeAH-90	13,403.5	13,404.5	1.00	RUPTURE DISC SUB
4 1/2	11.60	SeAH-90	13,404.5	13,409.9	5.45	Casing Joints
4 1/2	11.60	SeAH-90	13,409.9	13,411.4	1.43	TYPE II LANDING COLLAR
4 1/2	11.60	SeAH-90	13,411.4	13,412.3	0.97	Float Collar
4 1/2	11.60	SeAH-90	13,412.3	13,457.5	45.15	Casing Joints
4 1/2	11.60	SeAH-90	13,457.5	13,460.0	2.52	Float Shoe
Cement Stages						
Des	Pump Start Date	Drill Out Date	Top (ftKB)	Btm (ftKB)	Top Meas Meth	
Conductor Cement	9/20/2013		16.8	96.8	Returns to Surface	
Surface Casing Cement	9/23/2013		16.8	1,579.9	Returns to Surface	
Intermediate Casing Cement	9/26/2013		16.8	6,359.6	Returns to Surface	
Liner Cement	10/4/2013		4,995.7	13,460.0	Returns to Surface	
Perforations						
Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone		
Perforated Liner	3/1/2014	6,394.0	6,396.0	Niobrara, Original Hole		
Perforated Liner	3/1/2014	6,436.0	6,438.0	Niobrara, Original Hole		
Perforated Liner	3/1/2014	6,480.0	6,482.0	Niobrara, Original Hole		
Perforated Liner	3/1/2014	6,569.0	6,571.0	Niobrara, Original Hole		
Perforated Liner	3/1/2014	6,613.0	6,615.0	Niobrara, Original Hole		
Perforated Liner	3/1/2014	6,657.0	6,659.0	Niobrara, Original Hole		
Perforated Liner	3/1/2014	6,746.0	6,748.0	Niobrara, Original Hole		
Perforated Liner	3/1/2014	6,790.0	6,792.0	Niobrara, Original Hole		
Perforated Liner	3/1/2014	6,834.0	6,836.0	Niobrara, Original Hole		
Perforated Liner	2/28/2014	6,923.0	6,925.0	Niobrara, Original Hole		
Perforated Liner	2/28/2014	6,967.0	6,969.0	Niobrara, Original Hole		



Lease Review All CR
Well Name: RAZOR 271-2214B

API Number 051233794900			WPC ID 1CO076907			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) 13,470.0			
Original Spud Date 9/22/2013			Completion Date 3/1/2014		Asset Group Redtail Asset Group			Responsible Engineer Andrew Fish			N/S Dist (ft) 2,320.0		N/S Ref FSL		E/W Dist (ft) 759.0		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	Range E/W Dir		Meridian

Lateral/Horizontal - Original Hole, 5/19/2014 3:43:12 PM					Perforations				
MD (ftKB)	TV D (ftK B)	n cl (°)	Vertical schematic (actual)		Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
					Perforated Liner	2/28/2014	7,010.0	7,012.0	Niobrara, Original Hole
					Perforated Liner	2/28/2014	7,100.0	7,102.0	Niobrara, Original Hole
49.2	49.2	0.4			Perforated Liner	2/28/2014	7,144.0	7,146.0	Niobrara, Original Hole
1,192.6	1,190.9	1.7			Perforated Liner	2/28/2014	7,187.0	7,189.0	Niobrara, Original Hole
1,941.9	1,937.5	5.5			Perforated Liner	2/28/2014	7,278.0	7,280.0	Niobrara, Original Hole
3,514.4	3,509.7	4.5			Perforated Liner	2/28/2014	7,322.0	7,324.0	Niobrara, Original Hole
4,517.7	4,509.0	0.4			Perforated Liner	2/28/2014	7,368.0	7,370.0	Niobrara, Original Hole
5,023.0	5,014.2	0.6			Perforated Liner	2/28/2014	7,458.0	7,460.0	Niobrara, Original Hole
5,618.1	5,630.0	12.8			Perforated Liner	2/28/2014	7,504.0	7,506.0	Niobrara, Original Hole
6,313.3	5,706.7	89.6			Perforated Liner	2/28/2014	7,548.0	7,550.0	Niobrara, Original Hole
6,374.0	5,706.3	89.8			Perforated Liner	2/28/2014	7,548.0	7,550.0	Niobrara, Original Hole
6,480.0	5,705.2	90.1			Perforated Liner	2/28/2014	7,634.0	7,636.0	Niobrara, Original Hole
6,657.2	5,705.3	90.1			Perforated Liner	2/28/2014	7,666.0	7,668.0	Niobrara, Original Hole
6,834.0	5,707.3	98.7			Perforated Liner	2/28/2014	7,712.0	7,714.0	Niobrara, Original Hole
7,009.8	5,711.7	98.1			Perforated Liner	2/28/2014	7,802.0	7,804.0	Niobrara, Original Hole
7,187.0	5,717.7	98.5			Perforated Liner	2/28/2014	7,846.0	7,848.0	Niobrara, Original Hole
7,368.1	5,721.7	98.5			Perforated Liner	2/28/2014	7,895.0	7,897.0	Niobrara, Original Hole
7,547.9	5,721.8	98.5			Perforated Liner	2/28/2014	7,980.0	7,982.0	Niobrara, Original Hole
7,711.9	5,721.8	98.3			Perforated Liner	2/28/2014	8,026.0	8,028.0	Niobrara, Original Hole
7,895.0	5,722.2	98.4			Perforated Liner	2/28/2014	8,072.0	8,074.0	Niobrara, Original Hole
8,071.9	5,721.0	98.3			Perforated Liner	2/28/2014	8,161.0	8,163.0	Niobrara, Original Hole
8,248.0	5,718.9	98.3			Perforated Liner	2/28/2014	8,205.0	8,207.0	Niobrara, Original Hole
8,424.9	5,715.6	91.9			Perforated Liner	2/28/2014	8,248.0	8,250.0	Niobrara, Original Hole
8,602.0	5,711.3	98.4			Perforated Liner	2/28/2014	8,338.0	8,340.0	Niobrara, Original Hole
8,778.9	5,712.1	98.7			Perforated Liner	2/28/2014	8,381.0	8,383.0	Niobrara, Original Hole
8,956.0	5,713.1	98.4			Perforated Liner	2/28/2014	8,425.0	8,427.0	Niobrara, Original Hole
9,132.9	5,714.8	98.0			Perforated Liner	2/28/2014	8,515.0	8,517.0	Niobrara, Original Hole
9,309.1	5,714.1	98.5			Perforated Liner	2/28/2014	8,558.0	8,560.0	Niobrara, Original Hole
9,444.9	5,714.9	98.3			Perforated Liner	2/28/2014	8,602.0	8,604.0	Niobrara, Original Hole
9,621.1	5,713.2	98.7			Perforated Liner	2/28/2014	8,691.0	8,693.0	Niobrara, Original Hole
9,804.1	5,711.5	98.4			Perforated Liner	2/28/2014	8,735.0	8,737.0	Niobrara, Original Hole
9,970.1	5,710.1	98.6			Perforated Liner	2/28/2014	8,779.0	8,781.0	Niobrara, Original Hole
10,151.9	5,709.0	98.5			Perforated Liner	2/28/2014	8,868.0	8,870.0	Niobrara, Original Hole
10,329.1	5,711.5	98.0			Perforated Liner	2/28/2014	8,912.0	8,914.0	Niobrara, Original Hole
10,505.9	5,717.7	97.5			Perforated Liner	2/28/2014	8,956.0	8,958.0	Niobrara, Original Hole
10,683.1	5,726.4	97.1			Perforated Liner	2/28/2014	9,045.0	9,047.0	Niobrara, Original Hole
10,858.9	5,723.3	98.3			Perforated Liner	2/28/2014	9,089.0	9,091.0	Niobrara, Original Hole
11,036.1	5,722.8	98.8			Perforated Liner	2/28/2014	9,133.0	9,135.0	Niobrara, Original Hole
11,212.9	5,733.2	98.2			Perforated Liner	2/28/2014	9,222.0	9,224.0	Niobrara, Original Hole
11,390.1	5,735.7	98.4			Perforated Liner	2/28/2014	9,266.0	9,268.0	Niobrara, Original Hole
11,566.9	5,740.4	98.3			Perforated Liner	2/28/2014			
11,744.1	5,740.0	98.5			Perforated Liner	2/28/2014			
11,922.9	5,737.7	98.0			Perforated Liner	2/28/2014			
12,099.9	5,762.6	98.5			Perforated Liner	2/28/2014			
12,272.0	5,768.5	98.1			Perforated Liner	2/28/2014			
12,451.1	5,775.7	97.6			Perforated Liner	2/28/2014			
12,626.0	5,778.6	98.1			Perforated Liner	2/28/2014			
12,803.1	5,779.8	98.3			Perforated Liner	2/28/2014			
12,980.0	5,780.1	98.5			Perforated Liner	2/28/2014			
13,155.8	5,778.8	91.5			Perforated Liner	2/28/2014			
13,333.0	5,770.0	98.1			Perforated Liner	2/28/2014			
13,404.5	5,785.4	94.2			Perforated Liner	2/28/2014			
5,780.6	5,780.6	94.4			Perforated Liner	2/28/2014			

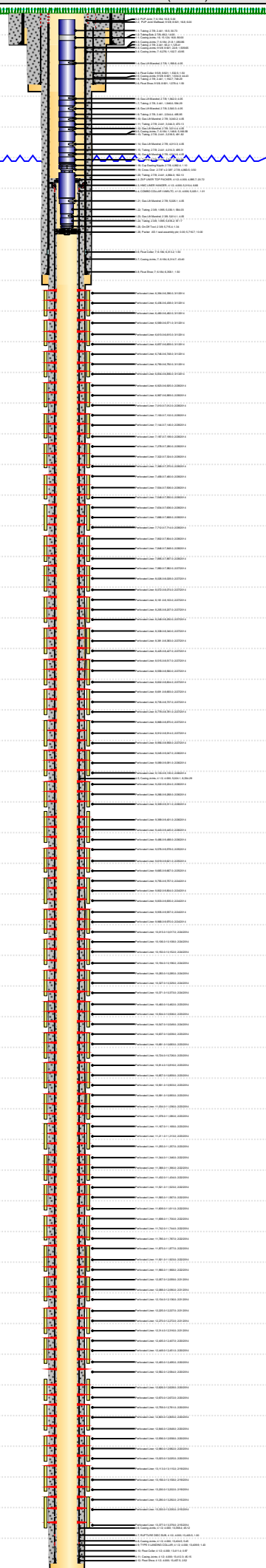


Lease Review All CR
Well Name: RAZOR 271-2214B

API Number 051233794900			WPC ID 1CO076907			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) 13,470.0			
Original Spud Date 9/22/2013			Completion Date 3/1/2014		Asset Group Redtail Asset Group			Responsible Engineer Andrew Fish			N/S Dist (ft) 2,320.0		N/S Ref FSL		E/W Dist (ft) 759.0		E/W Ref FEL
Lot		Quarter 1 NE	Quarter 2 SE	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, 5/19/2014 3:43:13 PM					Perforations				
MD (ftKB)	TV D (ftK B)	n cl (°)	Vertical schematic (actual)		Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
					Perforated Liner	2/26/2014	9,309.0	9,311.0	Niobrara, Original Hole
					Perforated Liner	2/26/2014	9,399.0	9,401.0	Niobrara, Original Hole
49.2	49.2	0.4			Perforated Liner	2/26/2014	9,443.0	9,445.0	Niobrara, Original Hole
1,192.6	1,190.9	1.7			Perforated Liner	2/26/2014	9,486.0	9,488.0	Niobrara, Original Hole
1,941.9	1,937.5	5.5			Perforated Liner	2/25/2014	9,576.0	9,578.0	Niobrara, Original Hole
3,514.4	3,509.7	4.5			Perforated Liner	2/25/2014	9,619.0	9,621.0	Niobrara, Original Hole
4,517.7	4,509.0	0.4			Perforated Liner	2/25/2014	9,665.0	9,667.0	Niobrara, Original Hole
5,023.0	5,014.2	0.6			Perforated Liner	2/24/2014	9,755.0	9,757.0	Niobrara, Original Hole
5,618.1	5,630.0	12.8			Perforated Liner	2/24/2014	9,802.0	9,804.0	Niobrara, Original Hole
6,313.3	5,706.7	89.6			Perforated Liner	2/24/2014	9,833.0	9,835.0	Niobrara, Original Hole
6,374.0	5,706.3	89.8			Perforated Liner	2/24/2014	9,935.0	9,937.0	Niobrara, Original Hole
6,480.0	5,705.2	90.1			Perforated Liner	2/24/2014	9,968.0	9,970.0	Niobrara, Original Hole
6,657.2	5,703.3	90.1			Perforated Liner	2/24/2014	10,015.0	10,017.0	Niobrara, Original Hole
6,834.0	5,707.3	88.7			Perforated Liner	2/24/2014	10,106.0	10,108.0	Niobrara, Original Hole
7,009.8	5,711.7	88.1			Perforated Liner	2/24/2014	10,150.0	10,152.0	Niobrara, Original Hole
7,187.0	5,717.7	88.5			Perforated Liner	2/24/2014	10,194.0	10,196.0	Niobrara, Original Hole
7,368.1	5,721.7	88.5			Perforated Liner	2/24/2014	10,283.0	10,285.0	Niobrara, Original Hole
7,547.9	5,721.8	88.5			Perforated Liner	2/24/2014	10,327.0	10,329.0	Niobrara, Original Hole
7,711.9	5,721.8	88.3			Perforated Liner	2/24/2014	10,371.0	10,373.0	Niobrara, Original Hole
7,895.0	5,722.2	88.4			Perforated Liner	2/23/2014	10,460.0	10,462.0	Niobrara, Original Hole
8,071.9	5,721.0	88.3			Perforated Liner	2/23/2014	10,504.0	10,506.0	Niobrara, Original Hole
8,248.0	5,718.9	88.3			Perforated Liner	2/24/2014	10,547.0	10,549.0	Niobrara, Original Hole
8,424.9	5,715.6	81.9			Perforated Liner	2/23/2014	10,637.0	10,639.0	Niobrara, Original Hole
8,602.0	5,711.3	88.4			Perforated Liner	2/23/2014	10,681.0	10,683.0	Niobrara, Original Hole
8,778.9	5,712.1	88.7			Perforated Liner	2/23/2014	10,724.0	10,726.0	Niobrara, Original Hole
8,956.0	5,713.1	88.4			Perforated Liner	2/23/2014	10,814.0	10,816.0	Niobrara, Original Hole
9,132.9	5,714.8	88.0			Perforated Liner	2/23/2014	10,857.0	10,859.0	Niobrara, Original Hole
9,309.1	5,714.1	88.5			Perforated Liner	2/23/2014	10,901.0	10,903.0	Niobrara, Original Hole
9,444.9	5,714.9	88.3			Perforated Liner	2/23/2014	10,991.0	10,993.0	Niobrara, Original Hole
9,621.1	5,713.2	88.7			Perforated Liner	2/23/2014	11,034.0	11,036.0	Niobrara, Original Hole
9,804.1	5,711.5	88.4			Perforated Liner	2/23/2014	11,078.0	11,080.0	Niobrara, Original Hole
9,970.1	5,710.1	88.6			Perforated Liner	2/23/2014	11,167.0	11,169.0	Niobrara, Original Hole
10,151.9	5,709.0	88.5			Perforated Liner	2/23/2014	11,211.0	11,213.0	Niobrara, Original Hole
10,329.1	5,711.5	88.0			Perforated Liner	2/23/2014	11,255.0	11,257.0	Niobrara, Original Hole
10,505.9	5,717.7	87.5			Perforated Liner	2/22/2014	11,344.0	11,346.0	Niobrara, Original Hole
10,683.1	5,726.4	87.1			Perforated Liner	2/22/2014	11,388.0	11,390.0	Niobrara, Original Hole
10,858.9	5,723.3	88.3			Perforated Liner	2/22/2014	11,432.0	11,434.0	Niobrara, Original Hole
11,036.1	5,722.8	88.8			Perforated Liner	2/22/2014	11,521.0	11,523.0	Niobrara, Original Hole
11,212.9	5,733.2	88.2			Perforated Liner	2/22/2014	11,565.0	11,567.0	Niobrara, Original Hole
11,390.1	5,735.7	88.4			Perforated Liner				
11,566.9	5,740.4	88.3							
11,744.1	5,740.0	88.5							
11,922.9	5,737.7	88.0							
12,089.9	5,762.6	88.5							
12,272.0	5,768.5	88.1							
12,451.1	5,775.7	87.6							
12,626.0	5,778.6	88.1							
12,803.1	5,779.8	88.3							
12,980.0	5,780.1	88.5							
13,155.8	5,778.8	81.5							
13,333.0	5,770.0	88.1							
13,404.5	5,785.4	84.2							
13,702.6	5,780.6	84.4							

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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) 13,470.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Original Spud Date 9/22/2013		Completion Date 3/1/2014		Asset Group Redtail Asset Group			Responsible Engineer Andrew Fish			N/S Dist (ft) 2,320.0		N/S Ref FSL		E/W Dist (ft) 759.0	E/W Ref FEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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<table><tr><th>MD (ftKB)</th><th>TV D (ftKB)</th><th>n cl (°)</th><th>Vertical schematic (actual)</th><th>Logs</th><th>Type of Hole</th><th>Date</th><th>Top (ftKB)</th><th>Btm (ftKB)</th><th>Zone</th></tr><tr><td></td><td></td><td></td><td rowspan="32"></td><td></td><td>Perforated Liner</td><td>2/22/2014</td><td>11,609.0</td><td>11,611.0</td><td>Niobrara, Original Hole</td></tr><tr><td>49.2</td><td>49.2</td><td>54</td><td></td><td>Perforated Liner</td><td>2/22/2014</td><td>11,698.0</td><td>11,700.0</td><td>Niobrara, Original Hole</td></tr><tr><td>1,192.6</td><td>1,190.5</td><td>47</td><td></td><td>Perforated Liner</td><td>2/22/2014</td><td>11,742.0</td><td>11,744.0</td><td>Niobrara, Original Hole</td></tr><tr><td>1,941.9</td><td>1,937.5</td><td>55</td><td></td><td>Perforated Liner</td><td>2/22/2014</td><td>11,785.0</td><td>11,787.0</td><td>Niobrara, Original Hole</td></tr><tr><td>3,514.4</td><td>3,506.7</td><td>33</td><td></td><td>Perforated Liner</td><td>2/22/2014</td><td>11,875.0</td><td>11,877.0</td><td>Niobrara, Original Hole</td></tr><tr><td>4,517.7</td><td>4,509.0</td><td>54</td><td></td><td>Perforated Liner</td><td>2/22/2014</td><td>11,921.0</td><td>11,923.0</td><td>Niobrara, Original Hole</td></tr><tr><td>5,023.0</td><td>5,014.2</td><td>54</td><td></td><td>Perforated Liner</td><td>2/22/2014</td><td>11,966.0</td><td>11,968.0</td><td>Niobrara, Original Hole</td></tr><tr><td>5,618.1</td><td>5,553.0</td><td>52.8</td><td></td><td>Perforated Liner</td><td>2/22/2014</td><td>12,057.0</td><td>12,059.0</td><td>Niobrara, Original Hole</td></tr><tr><td>6,313.3</td><td>5,795.7</td><td>59.8</td><td></td><td>Perforated Liner</td><td>2/21/2014</td><td>12,088.0</td><td>12,090.0</td><td>Niobrara, Original Hole</td></tr><tr><td>6,374.0</td><td>5,795.3</td><td>59.8</td><td></td><td>Perforated Liner</td><td>2/21/2014</td><td>12,134.0</td><td>12,136.0</td><td>Niobrara, Original Hole</td></tr><tr><td>6,480.0</td><td>5,795.2</td><td>59.1</td><td></td><td>Perforated Liner</td><td>2/21/2014</td><td>12,225.0</td><td>12,227.0</td><td>Niobrara, Original Hole</td></tr><tr><td>6,657.2</td><td>5,795.3</td><td>59.1</td><td></td><td>Perforated Liner</td><td>2/21/2014</td><td>12,270.0</td><td>12,272.0</td><td>Niobrara, Original Hole</td></tr><tr><td>6,834.0</td><td>5,797.3</td><td>58.7</td><td></td><td>Perforated Liner</td><td>2/21/2014</td><td>12,314.0</td><td>12,316.0</td><td>Niobrara, Original Hole</td></tr><tr><td>7,009.8</td><td>5,711.7</td><td>59.1</td><td></td><td>Perforated Liner</td><td>2/21/2014</td><td>12,405.0</td><td>12,407.0</td><td>Niobrara, Original Hole</td></tr><tr><td>7,187.0</td><td>5,717.7</td><td>58.5</td><td></td><td>Perforated Liner</td><td>2/21/2014</td><td>12,449.0</td><td>12,451.0</td><td>Niobrara, Original Hole</td></tr><tr><td>7,368.1</td><td>5,721.7</td><td>59.5</td><td></td><td>Perforated Liner</td><td>2/20/2014</td><td>12,493.0</td><td>12,495.0</td><td>Niobrara, Original Hole</td></tr><tr><td>7,547.9</td><td>5,721.8</td><td>59.8</td><td></td><td>Perforated Liner</td><td>2/20/2014</td><td>12,582.0</td><td>12,584.0</td><td>Niobrara, Original Hole</td></tr><tr><td>7,711.9</td><td>5,721.8</td><td>59.2</td><td></td><td>Perforated Liner</td><td>2/20/2014</td><td>12,626.0</td><td>12,628.0</td><td>Niobrara, Original Hole</td></tr><tr><td>7,895.0</td><td>5,722.2</td><td>59.4</td><td></td><td>Perforated Liner</td><td>2/20/2014</td><td>12,670.0</td><td>12,672.0</td><td>Niobrara, Original Hole</td></tr><tr><td>8,071.9</td><td>5,721.0</td><td>59.3</td><td></td><td>Perforated Liner</td><td>2/20/2014</td><td>12,759.0</td><td>12,761.0</td><td>Niobrara, Original Hole</td></tr><tr><td>8,248.0</td><td>5,718.9</td><td>59.3</td><td></td><td>Perforated Liner</td><td>2/20/2014</td><td>12,803.0</td><td>12,805.0</td><td>Niobrara, Original Hole</td></tr><tr><td>8,424.9</td><td>5,715.6</td><td>51.9</td><td></td><td>Perforated Liner</td><td>2/20/2014</td><td>12,846.0</td><td>12,848.0</td><td>Niobrara, Original Hole</td></tr><tr><td>8,602.0</td><td>5,711.3</td><td>59.4</td><td></td><td>Perforated Liner</td><td>2/20/2014</td><td>12,936.0</td><td>12,938.0</td><td>Niobrara, Original Hole</td></tr><tr><td>8,778.9</td><td>5,712.1</td><td>59.7</td><td></td><td>Perforated Liner</td><td>2/20/2014</td><td>12,980.0</td><td>12,982.0</td><td>Niobrara, Original Hole</td></tr><tr><td>8,956.0</td><td>5,713.1</td><td>59.4</td><td></td><td>Perforated Liner</td><td>2/20/2014</td><td>13,023.0</td><td>13,025.0</td><td>Niobrara, Original Hole</td></tr><tr><td>9,132.9</td><td>5,714.8</td><td>59.0</td><td></td><td>Perforated Liner</td><td>2/20/2014</td><td>13,113.0</td><td>13,115.0</td><td>Niobrara, Original Hole</td></tr><tr><td>9,309.1</td><td>5,714.1</td><td>59.5</td><td></td><td>Perforated Liner</td><td>2/19/2014</td><td>13,156.0</td><td>13,158.0</td><td>Niobrara, Original Hole</td></tr><tr><td>9,444.9</td><td>5,714.9</td><td>59.2</td><td></td><td>Perforated Liner</td><td>2/19/2014</td><td>13,200.0</td><td>13,202.0</td><td>Niobrara, Original Hole</td></tr><tr><td>9,621.1</td><td>5,713.2</td><td>59.7</td><td></td><td>Perforated Liner</td><td>2/15/2014</td><td>13,290.0</td><td>13,292.0</td><td>Niobrara, Original Hole</td></tr><tr><td>9,804.1</td><td>5,711.5</td><td>59.4</td><td></td><td>Perforated Liner</td><td>2/15/2014</td><td>13,333.0</td><td>13,335.0</td><td>Niobrara, Original Hole</td></tr><tr><td>9,970.1</td><td>5,710.1</td><td>59.5</td><td></td><td>Perforated Liner</td><td>2/15/2014</td><td>13,377.0</td><td>13,379.0</td><td>Niobrara, Original Hole</td></tr><tr><td>10,151.9</td><td>5,709.9</td><td>59.5</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10,329.1</td><td>5,711.5</td><td>59.0</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10,505.9</td><td>5,717.7</td><td>57.5</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10,683.1</td><td>5,726.4</td><td>57.1</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10,858.9</td><td>5,733.3</td><td>58.3</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11,036.1</td><td>5,732.8</td><td>59.8</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11,212.9</td><td>5,733.2</td><td>59.2</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11,390.1</td><td>5,735.7</td><td>59.4</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11,566.9</td><td>5,740.4</td><td>59.3</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11,744.1</td><td>5,746.0</td><td>59.5</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11,922.9</td><td>5,753.7</td><td>59.0</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>12,089.9</td><td>5,762.6</td><td>59.5</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>12,272.0</td><td>5,768.5</td><td>59.1</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>12,451.1</td><td>5,775.7</td><td>57.4</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>12,626.0</td><td>5,778.6</td><td>59.1</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>12,803.1</td><td>5,779.8</td><td>59.3</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>12,980.0</td><td>5,780.1</td><td>59.5</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>13,155.8</td><td>5,776.8</td><td>51.5</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>13,333.0</td><td>5,770.0</td><td>59.1</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>13,404.5</td><td>5,765.4</td><td>59.2</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5,760.8</td><td>5,760.8</td><td>59.4</td><td></td><td>Perforated Liner</td><td></td><td></td><td></td><td></td><td></td></tr></table>															MD (ftKB)	TV D (ftKB)	n cl (°)	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone						Perforated Liner	2/22/2014	11,609.0	11,611.0	Niobrara, Original Hole	49.2	49.2	54		Perforated Liner	2/22/2014	11,698.0	11,700.0	Niobrara, Original Hole	1,192.6	1,190.5	47		Perforated Liner	2/22/2014	11,742.0	11,744.0	Niobrara, Original Hole	1,941.9	1,937.5	55		Perforated Liner	2/22/2014	11,785.0	11,787.0	Niobrara, Original Hole	3,514.4	3,506.7	33		Perforated Liner	2/22/2014	11,875.0	11,877.0	Niobrara, Original Hole	4,517.7	4,509.0	54		Perforated Liner	2/22/2014	11,921.0	11,923.0	Niobrara, Original Hole	5,023.0	5,014.2	54		Perforated Liner	2/22/2014	11,966.0	11,968.0	Niobrara, Original Hole	5,618.1	5,553.0	52.8		Perforated Liner	2/22/2014	12,057.0	12,059.0	Niobrara, Original Hole	6,313.3	5,795.7	59.8		Perforated Liner	2/21/2014	12,088.0	12,090.0	Niobrara, Original Hole	6,374.0	5,795.3	59.8		Perforated Liner	2/21/2014	12,134.0	12,136.0	Niobrara, Original Hole	6,480.0	5,795.2	59.1		Perforated Liner	2/21/2014	12,225.0	12,227.0	Niobrara, Original Hole	6,657.2	5,795.3	59.1		Perforated Liner	2/21/2014	12,270.0	12,272.0	Niobrara, Original Hole	6,834.0	5,797.3	58.7		Perforated Liner	2/21/2014	12,314.0	12,316.0	Niobrara, Original Hole	7,009.8	5,711.7	59.1		Perforated Liner	2/21/2014	12,405.0	12,407.0	Niobrara, Original Hole	7,187.0	5,717.7	58.5		Perforated Liner	2/21/2014	12,449.0	12,451.0	Niobrara, Original Hole	7,368.1	5,721.7	59.5		Perforated Liner	2/20/2014	12,493.0	12,495.0	Niobrara, Original Hole	7,547.9	5,721.8	59.8		Perforated Liner	2/20/2014	12,582.0	12,584.0	Niobrara, Original Hole	7,711.9	5,721.8	59.2		Perforated Liner	2/20/2014	12,626.0	12,628.0	Niobrara, Original Hole	7,895.0	5,722.2	59.4		Perforated Liner	2/20/2014	12,670.0	12,672.0	Niobrara, Original Hole	8,071.9	5,721.0	59.3		Perforated Liner	2/20/2014	12,759.0	12,761.0	Niobrara, Original Hole	8,248.0	5,718.9	59.3		Perforated Liner	2/20/2014	12,803.0	12,805.0	Niobrara, Original Hole	8,424.9	5,715.6	51.9		Perforated Liner	2/20/2014	12,846.0	12,848.0	Niobrara, Original Hole	8,602.0	5,711.3	59.4		Perforated Liner	2/20/2014	12,936.0	12,938.0	Niobrara, Original Hole	8,778.9	5,712.1	59.7		Perforated Liner	2/20/2014	12,980.0	12,982.0	Niobrara, Original Hole	8,956.0	5,713.1	59.4		Perforated Liner	2/20/2014	13,023.0	13,025.0	Niobrara, Original Hole	9,132.9	5,714.8	59.0		Perforated Liner	2/20/2014	13,113.0	13,115.0	Niobrara, Original Hole	9,309.1	5,714.1	59.5		Perforated Liner	2/19/2014	13,156.0	13,158.0	Niobrara, Original Hole	9,444.9	5,714.9	59.2		Perforated Liner	2/19/2014	13,200.0	13,202.0	Niobrara, Original Hole	9,621.1	5,713.2	59.7		Perforated Liner	2/15/2014	13,290.0	13,292.0	Niobrara, Original Hole	9,804.1	5,711.5	59.4		Perforated Liner	2/15/2014	13,333.0	13,335.0	Niobrara, Original Hole	9,970.1	5,710.1	59.5		Perforated Liner	2/15/2014	13,377.0	13,379.0	Niobrara, Original Hole	10,151.9	5,709.9	59.5		Perforated Liner						10,329.1	5,711.5	59.0		Perforated Liner						10,505.9	5,717.7	57.5		Perforated Liner						10,683.1	5,726.4	57.1		Perforated Liner						10,858.9	5,733.3	58.3		Perforated Liner						11,036.1	5,732.8	59.8		Perforated Liner						11,212.9	5,733.2	59.2		Perforated Liner						11,390.1	5,735.7	59.4		Perforated Liner						11,566.9	5,740.4	59.3		Perforated Liner						11,744.1	5,746.0	59.5		Perforated Liner						11,922.9	5,753.7	59.0		Perforated Liner						12,089.9	5,762.6	59.5		Perforated Liner						12,272.0	5,768.5	59.1		Perforated Liner						12,451.1	5,775.7	57.4		Perforated Liner						12,626.0	5,778.6	59.1		Perforated Liner						12,803.1	5,779.8	59.3		Perforated Liner						12,980.0	5,780.1	59.5		Perforated Liner						13,155.8	5,776.8	51.5		Perforated Liner						13,333.0	5,770.0	59.1		Perforated Liner						13,404.5	5,765.4	59.2		Perforated Liner						5,760.8	5,760.8	59.4		Perforated Liner					
MD (ftKB)	TV D (ftKB)	n cl (°)	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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5,023.0	5,014.2	54			Perforated Liner	2/22/2014	11,966.0	11,968.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
5,618.1	5,553.0	52.8			Perforated Liner	2/22/2014	12,057.0	12,059.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
6,313.3	5,795.7	59.8			Perforated Liner	2/21/2014	12,088.0	12,090.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
6,374.0	5,795.3	59.8			Perforated Liner	2/21/2014	12,134.0	12,136.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
6,480.0	5,795.2	59.1			Perforated Liner	2/21/2014	12,225.0	12,227.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
6,657.2	5,795.3	59.1			Perforated Liner	2/21/2014	12,270.0	12,272.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
6,834.0	5,797.3	58.7			Perforated Liner	2/21/2014	12,314.0	12,316.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
7,009.8	5,711.7	59.1			Perforated Liner	2/21/2014	12,405.0	12,407.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
7,187.0	5,717.7	58.5			Perforated Liner	2/21/2014	12,449.0	12,451.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
7,368.1	5,721.7	59.5			Perforated Liner	2/20/2014	12,493.0	12,495.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
7,547.9	5,721.8	59.8			Perforated Liner	2/20/2014	12,582.0	12,584.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
7,711.9	5,721.8	59.2			Perforated Liner	2/20/2014	12,626.0	12,628.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
7,895.0	5,722.2	59.4			Perforated Liner	2/20/2014	12,670.0	12,672.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
8,071.9	5,721.0	59.3			Perforated Liner	2/20/2014	12,759.0	12,761.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
8,248.0	5,718.9	59.3			Perforated Liner	2/20/2014	12,803.0	12,805.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
8,424.9	5,715.6	51.9			Perforated Liner	2/20/2014	12,846.0	12,848.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
8,602.0	5,711.3	59.4			Perforated Liner	2/20/2014	12,936.0	12,938.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
8,778.9	5,712.1	59.7			Perforated Liner	2/20/2014	12,980.0	12,982.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
8,956.0	5,713.1	59.4			Perforated Liner	2/20/2014	13,023.0	13,025.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
9,132.9	5,714.8	59.0			Perforated Liner	2/20/2014	13,113.0	13,115.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
9,309.1	5,714.1	59.5			Perforated Liner	2/19/2014	13,156.0	13,158.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
9,444.9	5,714.9	59.2			Perforated Liner	2/19/2014	13,200.0	13,202.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
9,621.1	5,713.2	59.7			Perforated Liner	2/15/2014	13,290.0	13,292.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
9,804.1	5,711.5	59.4			Perforated Liner	2/15/2014	13,333.0	13,335.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
9,970.1	5,710.1	59.5			Perforated Liner	2/15/2014	13,377.0	13,379.0	Niobrara, Original Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
10,151.9	5,709.9	59.5			Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
10,329.1	5,711.5	59.0		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
10,505.9	5,717.7	57.5		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
10,683.1	5,726.4	57.1		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
10,858.9	5,733.3	58.3		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
11,036.1	5,732.8	59.8		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
11,212.9	5,733.2	59.2		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
11,390.1	5,735.7	59.4		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
11,566.9	5,740.4	59.3		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
11,744.1	5,746.0	59.5		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
11,922.9	5,753.7	59.0		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
12,089.9	5,762.6	59.5		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
12,272.0	5,768.5	59.1		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
12,451.1	5,775.7	57.4		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
12,626.0	5,778.6	59.1		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
12,803.1	5,779.8	59.3		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
12,980.0	5,780.1	59.5		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
13,155.8	5,776.8	51.5		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
13,333.0	5,770.0	59.1		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
13,404.5	5,765.4	59.2		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
5,760.8	5,760.8	59.4		Perforated Liner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Stim/Treat Stages																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
<table><tr><th>Stage Type</th><th>Start Date</th><th>Top (ftKB)</th><th>Btm (ftKB)</th><th>Stim/Treat Fluid</th><th>Vol Clean Pump (bbl)</th></tr><tr><td>Frac</td><td>2/21/2014</td><td>12,225.0</td><td>12,316.0</td><td>8990# 40/70, 165600# 20/40, 24bls 15%HCL, Slick Water</td><td>3857.00</td></tr><tr><td>Frac</td><td>2/20/2014</td><td>12,405.0</td><td>12,495.0</td><td>9110# 40/70, 67030# 20/40, 24bls 15%HCL, Slick Water</td><td>3108.00</td></tr><tr><td>Frac</td><td>2/20/2014</td><td>12,585.0</td><td>12,672.0</td><td>7810# 40/70, 113010# 20/40, 24bls 15%HCL, Slick Water</td><td>3375.00</td></tr><tr><td>Frac</td><td>2/20/2014</td><td>12,759.0</td><td>12,848.0</td><td>6240# 40/70, 168270# 20/40, 24bls 15%HCL, Slick Water</td><td>3673.00</td></tr></table>															Stage Type	Start Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pump (bbl)	Frac	2/21/2014	12,225.0	12,316.0	8990# 40/70, 165600# 20/40, 24bls 15%HCL, Slick Water	3857.00	Frac	2/20/2014	12,405.0	12,495.0	9110# 40/70, 67030# 20/40, 24bls 15%HCL, Slick Water	3108.00	Frac	2/20/2014	12,585.0	12,672.0	7810# 40/70, 113010# 20/40, 24bls 15%HCL, Slick Water	3375.00	Frac	2/20/2014	12,759.0	12,848.0	6240# 40/70, 168270# 20/40, 24bls 15%HCL, Slick Water	3673.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Stage Type	Start Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pump (bbl)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Frac	2/21/2014	12,225.0	12,316.0	8990# 40/70, 165600# 20/40, 24bls 15%HCL, Slick Water	3857.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Frac	2/20/2014	12,405.0	12,495.0	9110# 40/70, 67030# 20/40, 24bls 15%HCL, Slick Water	3108.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Frac	2/20/2014	12,585.0	12,672.0	7810# 40/70, 113010# 20/40, 24bls 15%HCL, Slick Water	3375.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Frac	2/20/2014	12,759.0	12,848.0	6240# 40/70, 168270# 20/40, 24bls 15%HCL, Slick Water	3673.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

Lease Review All CR													
Well Name: RAZOR 271-2214B													
API Number 051233794900		WPC ID 1CO076907		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 13,470.0			
Original Spud Date 9/22/2013		Completion Date 3/1/2014		Asset Group Redtail Asset Group		Responsible Engineer Andrew Fish		N/S Dist (ft) 2,320.0		N/S Ref FSL		E/W Dist (ft) 759.0	
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 N	Range 58 W
Meridian													
Lateral/Horizontal - Original Hole, 5/19/2014 3:43:16 PM						Stim/Treat Stages							
MD (ft)KB	TV D (ft)KB	n cl (°)	Vertical schematic (actual)				Logs	Stage Type	Start Date	Top (ft)KB	Btm (ft)KB	Stim/Treat Fluid	Vol Clean Pump (bbl)
49.2	49.2	0.4					Frac	2/19/2014	12,936.0	13,025.0	9100# 40/70, 166000# 20/40, 24bbls 15%HCL, Slick Water	3748.00	
1,192.6	1,190.5	4.7					Frac	2/19/2014	13,113.0	13,202.0	8900# 40/70, 92900# 20/40, 24bbls 15%HCL, Slick Water	3905.00	
1,941.9	1,937.5	5.0					Frac	2/19/2014	13,290.0	13,379.0	8510# 40/70, 68141# 20/40, 24bbls 15%HCL, Slick Water	2938.00	
3,514.4	3,506.7	3.3					Frac	3/1/2014	6,394.0	6,482.0	9220# 40/70, 166280# 20/40, 24bbls 15%HCL, Slick Water	3087.00	
4,517.7	4,509.0	0.4					Frac	3/1/2014	6,569.0	6,659.0	9475# 40/70, 165525# 20/40, 24bbls 15%HCL, Slick Water	3094.00	
5,023.0	5,014.2	0.6					Frac	2/28/2014	6,746.0	6,836.0	8984# 40/70, 167116# 20/40, 24bbls 15%HCL, Slick Water	3120.00	
5,618.1	5,633.0	52.8					Frac	2/28/2014	6,923.0	7,012.0	9128# 40/70, 166172# 20/40, 24bbls 15%HCL, Slick Water	3130.00	
6,313.3	5,706.7	89.6					Frac	2/28/2014	7,100.0	7,189.0	8809# 40/70, 160291# 20/40, Slick Water	3078.00	
6,374.0	5,706.3	58.8					Frac	2/28/2014	7,278.0	7,370.0	9043# 40/70, 164057# 20/40, Slick Water	3078.00	
6,480.0	5,705.2	50.1					Frac	2/28/2014	7,458.0	7,550.0	8977# 40/70, 163377# 20/40, Slick Water	3101.00	
6,657.2	5,705.3	50.1					Frac	2/28/2014	7,634.0	7,714.0	8976# 40/70, 164226# 20/40, Slick Water	3110.00	
6,834.0	5,707.3	58.7					Frac	2/27/2014	7,802.0	7,897.0	9142# 40/70, 161158# 20/40, Slick Water	3432.00	
7,009.8	5,711.7	58.1					Frac	2/27/2014	7,980.0	8,074.0	9052# 40/70, 166848# 20/40, Slick Water	3131.00	
7,187.0	5,717.7	58.5					Frac	2/27/2014	8,161.0	8,250.0	9226# 40/70, 164774# 20/40, Slick Water	3175.00	
7,368.1	5,721.7	58.5					Frac	2/27/2014	8,338.0	8,427.0	9122# 40/70, 165520# 20/40, Slick Water	3201.00	
7,547.9	5,721.8	58.5					Frac	2/27/2014	8,515.0	8,604.0	8772# 40/70, 162570# 20/40, Slick Water	3168.00	
7,711.9	5,721.8	58.2					Frac	2/27/2014	8,691.0	8,781.0	9706# 40/70, 164550# 20/40, Slick Water	3406.00	
7,895.0	5,722.2	58.4					Frac	2/27/2014	8,868.0	8,958.0	9264# 40/70, 167806# 20/40, 24bbls 15%HCL, Slick Water	3214.00	
8,071.9	5,721.0	58.3					Frac	2/26/2014	9,045.0	9,135.0	9271# 40/70, 165529# 20/40, 24bbls 15%HCL, Slick Water	3249.00	
8,248.0	5,718.9	58.3					Frac	2/26/2014	9,222.0	9,311.0	9124# 40/70, 172076# 20/40, 24bbls 15%HCL, Slick Water	3160.00	
8,424.9	5,715.6	41.9					Frac	2/26/2014	9,339.0	9,488.0	9453# 40/70, 169547# 20/40, 24bbls 15%HCL, Slick Water	3298.00	
8,602.0	5,711.3	58.4					Frac	2/25/2014	9,576.0	9,667.0	8845# 40/70, 164955# 20/40, 24bbls 15%HCL, Slick Water	3250.00	
8,778.9	5,712.1	58.7					Frac	2/25/2014	9,755.0	9,835.0	8200# 40/70, 160500# 20/40, 24bbls 15%HCL, Slick Water	3327.00	
8,956.0	5,713.1	58.4					Frac	2/24/2014	9,935.0	10,017.0	9140# 40/70, 129990# 20/40, 24bbls 15%HCL, Slick Water	3048.00	
9,132.9	5,714.8	58.0					Frac	2/24/2014	10,106.0	10,196.0	9155# 40/70, 167645# 20/40, 24bbls 15%HCL, Slick Water	3283.00	
9,309.1	5,714.1	58.5					Frac	2/24/2014	10,283.0	10,373.0	9077# 40/70, 165923# 20/40, 24bbls 15%HCL, Slick Water	3309.00	
9,444.9	5,714.9	58.2					Frac	2/23/2014	10,460.0	10,549.0	8900# 40/70, 156600# 20/40, 24bbls 15%HCL, Slick Water	3347.00	
9,621.1	5,713.2	58.7					Frac	2/23/2014	10,637.0	10,726.0	9050# 40/70, 164800# 20/40, 24bbls 15%HCL, Slick Water	3291.00	
9,804.1	5,711.5	58.4					Frac	2/23/2014	10,814.0	10,903.0	9056# 40/70, 165171# 20/40, 24bbls 15%HCL, Slick Water	3293.00	
9,970.1	5,710.1	58.6					Frac	2/23/2014	10,991.0	11,080.0	9064# 40/70, 167436# 20/40, 24bbls 15%HCL, Slick Water	3385.00	
10,151.9	5,709.0	58.5											
10,329.1	5,711.5	58.0											
10,505.9	5,717.7	57.5											
10,683.1	5,726.4	57.1											
10,858.9	5,733.3	58.3											
11,036.1	5,732.8	58.8											
11,212.9	5,733.2	58.2											
11,390.1	5,735.7	58.4											
11,566.9	5,740.4	58.2											
11,744.1	5,748.0	58.5											
11,922.9	5,757.7	58.0											
12,089.9	5,762.6	58.5											
12,272.0	5,768.5	58.1											
12,451.1	5,775.7	57.6											
12,626.0	5,778.6	58.1											
12,803.1	5,779.8	58.3											
12,980.0	5,780.1	58.5											
13,155.8	5,778.8	51.5											
13,333.0	5,770.0	58.1											
13,404.5	5,765.4	54.2											
5,760.6	54.4												

Lease Review All CR												
Well Name: RAZOR 271-2214B												
API Number 051233794900		WPC ID 1CO076907		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) 13,470.0		
Original Spud Date 9/22/2013		Completion Date 3/1/2014		Asset Group Redtail Asset Group		Responsible Engineer Andrew Fish		N/S Dist (ft) 2,320.0		N/S Ref FSL		E/W Dist (ft) 759.0
Lot		Quarter 1 NE		Quarter 2 SE		Quarter 3		Quarter 4		Section 27		Section Suffix
										Township 10 N		Township N/S Dir N
										Range 58		Range E/W Dir W
												Meridian
Lateral/Horizontal - Original Hole, 5/19/2014 3:43:17 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)		
49.2		49.2		04						Frac 2/23/2014		
1,192.6		1,190.5		47						11,167.0 11,257.0 9133# 40/70, 164230# 20/40, 24bls 15%HCL, Slick Water 3358.00		
1,941.9		1,937.5		55						Frac 2/22/2014		
3,514.4		3,506.7		33						11,344.0 11,434.0 9690# 40/70, 166000# 20/40, 24bls 15%HCL, Slick Water 3469.00		
4,517.7		4,509.0		04						Frac 2/22/2014		
5,023.0		5,014.2		04						11,521.0 11,611.0 9370# 40/70, 166500# 20/40, 24bls 15%HCL, Slick Water 3389.00		
5,618.1		5,553.0		52.8						Frac 2/22/2014		
6,313.3		5,796.7		66.6						11,698.0 11,787.0 8350# 40/70, 166540# 20/40, 24bls 15%HCL, Slick Water 3424.00		
6,374.0		5,706.3		96.8						Frac 2/22/2014		
6,480.0		5,705.2		96.1						11,875.0 11,968.0 8210# 40/70, 168870# 20/40, 24bls 15%HCL, Slick Water 3866.00		
6,657.2		5,705.3		96.1						Frac 2/21/2014		
6,834.0		5,707.3		98.7						12,057.0 12,136.0 8930# 40/70, 42060# 20/40, 24bls 15%HCL, Slick Water 2838.00		
7,009.8		5,711.7		98.1						Tubing - Production set at 5,726.7ftKB on 4/24/2014 06:00		
7,187.0		5,717.7		98.5						Set Depth (ftKB) 5,726.7		
7,368.1		5,721.7		98.5						Comment		
7,547.9		5,721.8		98.9						Run Date 4/24/2014		
7,711.9		5,721.8		98.2						Pull Date		
7,895.0		5,722.2		98.4						Item Des		
8,071.9		5,721.0		98.8						OD (in)		
8,248.0		5,718.9		98.3						ID (in)		
8,424.9		5,715.6		97.8						Len (ft)		
8,602.0		5,711.3		96.4						Top (ftKB)		
8,778.9		5,712.1		95.7						Btm (ftKB)		
8,956.0		5,713.1		95.4						Tubing 2 7/8 2.441 30.73 18.5 49.2		
9,132.9		5,714.8		96.0						Tubing Sub 2 7/8 2.441 14.00 49.2 63.2		
9,309.1		5,714.1		95.5						Tubing 2 7/8 2.441 1,125.41 63.2 1,188.6		
9,444.9		5,714.9		96.2						Gas Lift Mandrel 2 7/8 2.441 4.05 1,188.6 1,192.7		
9,621.1		5,713.2		96.7						Tubing 2 7/8 2.441 749.29 1,192.7 1,942.0		
9,804.1		5,711.5		96.4						Gas Lift Mandrel 2 7/8 2.441 4.05 1,942.0 1,946.0		
9,970.1		5,710.1		96.6						Tubing 2 7/8 2.441 594.29 1,946.0 2,540.3		
10,151.9		5,709.9		96.5						Gas Lift Mandrel 2 7/8 2.441 4.05 2,540.3 2,544.4		
10,329.1		5,711.5		96.0						Tubing 2 7/8 2.441 495.85 2,544.4 3,040.2		
10,505.9		5,717.7		97.5						Gas Lift Mandrel 2 7/8 2.441 4.05 3,040.2 3,044.3		
10,683.1		5,726.4		97.1						Tubing 2 7/8 2.441 470.13 3,044.3 3,514.4		
10,858.9		5,733.3		98.3						Gas Lift Mandrel 2 7/8 2.441 4.05 3,514.4 3,518.5		
11,036.1		5,732.8		98.8						Tubing 2 7/8 2.441 491.82 3,518.5 4,010.3		
11,212.9		5,733.2		98.2						Gas Lift Mandrel 2 7/8 2.441 4.05 4,010.3 4,014.3		
11,390.1		5,735.7		98.4						Tubing 2 7/8 2.441 499.31 4,014.3 4,513.6		
11,566.9		5,740.4		98.2						Gas Lift Mandrel 2 7/8 2.441 4.05 4,513.6 4,517.7		
11,744.1		5,748.0		98.5						Tubing 2 7/8 2.441 344.68 4,517.7 4,862.4		
11,922.9		5,757.7		98.0						Cup Seating Nipple 2 7/8 2.441 1.10 4,862.4 4,863.5		
12,089.9		5,762.6		98.5						Cross Over 2-7/8" x 2-3/8" 2 7/8 2.441 0.50 4,863.5 4,864.0		
12,272.0		5,768.5		98.1						Tubing 2 7/8 2.441 162.10 4,864.0 5,026.1		
12,451.1		5,775.7		97.6						Gas Lift Mandrel 2 7/8 2.441 4.05 5,026.1 5,030.1		
12,626.0		5,779.6		96.1						Tubing 2 3/8 1.995 584.03 5,030.1 5,614.1		
12,803.1		5,779.6		95.3						Gas Lift Mandrel 2 3/8 1.995 4.05 5,614.1 5,618.2		
12,980.0		5,780.1		95.5						Tubing 2 3/8 1.995 97.17 5,618.2 5,715.4		
13,155.8		5,776.8		95.5						On-Off Tool 2 3/8 1.995 1.34 5,715.4 5,716.7		
13,333.0		5,775.0		95.1						Packer AS-1 seal assembly pkr 0.0 10.00 5,716.7 5,726.7		
13,404.5		5,785.4		94.2						Rod Strings		
5,785.6		94.4								<des> on <dttrun>		
										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 3/1/2014 4/22/2014 6,526.0 6,528.0		
										CFP 4 3/1/2014 4/22/2014 6,702.0 6,704.0		
										CFP 4 3/1/2014 4/22/2014 6,879.0 6,881.0		
										CFP 4 2/28/2014 4/22/2014 7,056.0 7,058.0		
										CFP 4 2/28/2014 4/22/2014 7,233.0 7,235.0		
										CFP 4 2/28/2014 4/22/2014 7,413.0 7,415.0		
										CFP 4 2/28/2014 4/22/2014 7,593.0 7,595.0		
										CFP 4 2/28/2014 4/22/2014 7,754.0 7,756.0		
										CFP 4 2/28/2014 4/22/2014 7,934.0 7,936.0		
										CFP 4 2/27/2014 4/22/2014 8,112.0 8,114.0		
										CFP 4 2/27/2014 4/22/2014 8,249.0 8,251.0		
										CFP 4 2/27/2014 4/22/2014 8,471.0 8,473.0		
										CFP 4 2/27/2014 4/22/2014 8,648.0 8,650.0		
										CFP 4 2/27/2014 4/22/2014 8,825.0 8,827.0		



Lease Review All CR
Well Name: RAZOR 271-2214B

API Number 051233794900	WPC ID 1CO076907	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) 13,470.0
Original Spud Date 9/22/2013	Completion Date 3/1/2014	Asset Group Redtail Asset Group	Responsible Engineer Andrew Fish	N/S Dist (ft) 2,320.0	N/S Ref FSL
				E/W Dist (ft) 759.0	E/W Ref FEL
Lot	Quarter 1 NE	Quarter 2 SE	Quarter 3	Quarter 4	Section 27
			Section Suffix	Section Type	Township 10 N
					Range 58 W

Lateral/Horizontal - Original Hole, 5/19/2014 3:43:18 PM						Other In Hole					
MD (ftKB)	TV D (ftKB)	ncl (°)	Vertical schematic (actual)	Logs		Des	OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)
49.2	49.2	0.4				CFP	4	2/27/2014	4/22/2014	9,001.0	9,003.0
1,192.6	1,190.5	1.7				CFP	4	2/26/2014	4/22/2014	9,178.0	9,180.0
1,941.9	1,937.5	5.5				CFP	4	2/26/2014	4/22/2014	9,355.0	9,357.0
3,514.4	3,509.7	13.5				CFP	4	2/26/2014	4/22/2014	9,534.0	9,536.0
4,517.7	4,509.0	1.4				CFP	4	2/25/2014	4/22/2014	9,709.0	9,711.0
5,023.0	5,014.2	0.6				CFP	4	2/24/2014	4/22/2014	9,875.0	9,877.0
5,618.1	5,630.0	12.8				CFP	4	2/24/2014	4/22/2014	10,053.0	10,055.0
6,313.3	5,706.7	89.6				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
6,374.0	5,706.3	60.8				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
6,480.0	5,705.2	90.1				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
6,657.2	5,705.3	90.1				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
6,834.0	5,707.3	88.7				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
7,009.8	5,711.7	88.1				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
7,187.0	5,717.7	88.5				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
7,368.1	5,721.7	88.5				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
7,547.9	5,721.8	88.5				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
7,711.9	5,721.8	90.3				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
7,895.0	5,722.2	88.4				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
8,071.9	5,721.0	90.3				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
8,248.0	5,718.9	90.3				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
8,424.9	5,715.6	91.9				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
8,602.0	5,711.3	90.4				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
8,778.9	5,712.1	89.7				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
8,956.0	5,713.1	88.4				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
9,132.9	5,714.8	90.0				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
9,309.1	5,714.1	88.5				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
9,444.9	5,714.9	90.3				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
9,621.1	5,713.2	90.7				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
9,804.1	5,711.5	90.4				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
9,970.1	5,710.1	90.6				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
10,151.9	5,709.0	88.5				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
10,329.1	5,711.5	88.0				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
10,505.9	5,717.7	87.5				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
10,683.1	5,726.4	87.1				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
10,858.9	5,723.3	88.3				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
11,036.1	5,722.8	88.8				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
11,212.9	5,733.2	88.2				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
11,390.1	5,735.7	88.4				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
11,566.9	5,740.4	88.3				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
11,744.1	5,740.0	88.5				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
11,922.9	5,737.7	88.0				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
12,099.9	5,762.6	88.5				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
12,272.0	5,768.5	88.1				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
12,451.1	5,775.7	87.6				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
12,626.0	5,778.6	90.1				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
12,803.1	5,778.6	88.3				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
12,980.0	5,780.1	90.5				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
13,155.8	5,778.8	91.5				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
13,333.0	5,770.0	90.1				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
13,404.5	5,785.4	94.2				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0
5,780.6	5,780.6	94.4				CFP	4	2/24/2014	4/22/2014	10,239.0	10,241.0

Bottom Hole Cores				
Date	Core #	Top (ftKB)	Btm (ftKB)	Recov (ft)