



Lease Review  
Well Name: RAZOR 33P-3314

API Number 051234021900	WPC ID 1CO0761109	Well Permit Number	Field Name DJ Horizontal Niobrara	County Weld	State CO
Well Configuration Type Lateral/Horizontal	Orig KB Elv (ft) 4,731.00	Ground Elevation (ft) 4,710.00	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB) 10,508.0
Original Spud Date 11/14/2014	Completion Date 1/27/2015	Asset Group Redtail	Responsible Engineer Charles Ohlson	N/S Dist (ft) 330.0	N/S Ref FSL
				E/W Dist (ft) 630.0	E/W Ref FEL
Lot	Quarter 1 SE	Quarter 2 SE	Quarter 3	Quarter 4	Section 33
			Section Suffix	Section Type	Township 10 N
					Township N/S Dir N
					Range 58
					Range E/W Dir W
					Meridian

Lateral/Horizontal - Original Hole, 4/10/2015 2:32:21 PM						Wellbore Sections					
MD (ftKB)	D (ft KB)	n c l (ft)	Vertical schematic (actual)			Logs	Section Des	Wellbore Name	Start Date	Size (in)	Act Top (ftKB)
22.0	22.0	0.0					Conductor	Original Hole	10/29/2014	24	21.0
60.7	60.7	0.0					Surface	Original Hole	11/14/2014	13 1/2	80.0
1,536.4	1,536.4	4.0					Intermediate	Original Hole	11/16/2014	8 3/4	1,600.0
1,600.1	1,597.3	4.1					Lateral	Original Hole	11/19/2014	6	6,087.0

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 (black)

Surface Csg, 1,579.3ftKB						
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	28.0	7.00	Well head
9 5/8	36.00	J-55	28.0	1,534.9	1,506.94	Casing Joints
9 5/8	36.00	J-55	1,534.9	1,536.4	1.50	Float collar
9 5/8	36.00	J-55	1,536.4	1,577.3	40.88	Casing Joints
9 5/8	36.00	J-55	1,577.3	1,579.3	2.00	Shoe

Intermediate Csg, 6,077.7ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
7	29.00	P-110	21.0	21.0	0.00	Landing Joint
7	29.00	P-110	21.0	28.0	7.00	Hanger
7	29.00	P-110	28.0	6,033.9	6,005.89	Casing Joints
7	29.00	P-110	6,033.9	6,035.4	1.50	Float Collar
7	29.00	P-110	6,035.4	6,075.7	40.27	Casing Joints
7	29.00	P-110	6,075.7	6,077.7	2.00	Shoe

Liner, 10,498.0ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
4 1/2	11.60	P-110	4,985.6	4,985.6	0.00	PBR Liner top
4 1/2	11.60	P-110	4,985.6	4,988.1	2.54	Packer
4 1/2	11.60	P-110	4,988.1	4,989.0	0.87	Collar
4 1/2	11.60	P-110	4,989.0	4,994.7	5.71	Hanger
4 1/2	11.60	P-110	4,994.7	4,995.4	0.69	X-OVER
4 1/2	11.60	P-110	4,995.4	10,482.3	5,486.88	Casing Joints
4 1/2	11.60	P-110	10,482.3	10,487.4	5.09	Handling sub
4 1/2	11.60	P-110	10,487.4	10,492.3	4.91	Wet Shoe Sleeve
4 1/2	11.60	P-110	10,492.3	10,493.8	1.55	Wet Shoe Float
4 1/2	11.60	P-110	10,493.8	10,496.3	2.50	Float Collar
4 1/2	11.60	P-110	10,496.3	10,498.0	1.67	Float Shoe

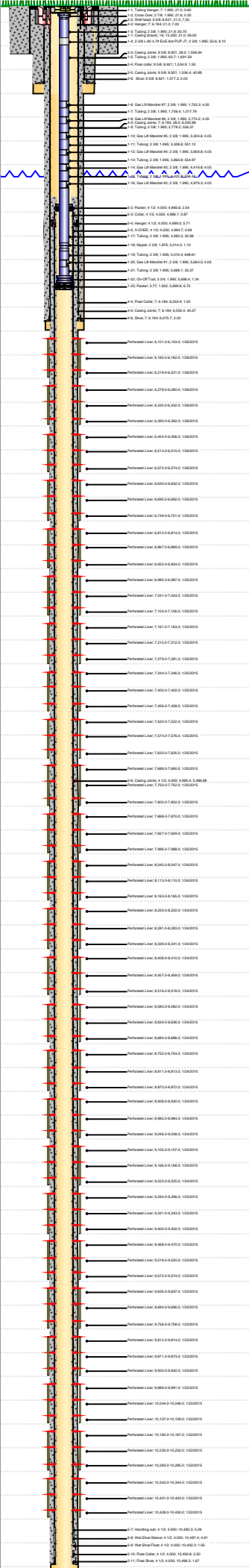
Cement Stages					
Des	Pump Start Date	Drill Out Date	Top (ftKB)	Btm (ftKB)	Top Meas Meth
Conductor Cement	10/29/2014		21.0	80.0	Returns to Surface
Surface Casing Cement	11/15/2014		21.0	1,579.3	Returns to Surface
Intermediate Casing Cement	11/19/2014		21.0	6,077.7	Returns to Surface
Liner Cement	11/22/2014		4,985.0	10,498.0	Returns to Surface

Perforations				
Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
Perforated Liner	1/26/2015	6,101.0	6,103.0	Niobrara, Original Hole
Perforated Liner	1/26/2015	6,160.0	6,162.0	Niobrara, Original Hole
Perforated Liner	1/26/2015	6,219.0	6,221.0	Niobrara, Original Hole
Perforated Liner	1/26/2015	6,278.0	6,280.0	Niobrara, Original Hole
Perforated Liner	1/26/2015	6,330.0	6,332.0	Niobrara, Original Hole
Perforated Liner	1/26/2015	6,390.0	6,392.0	Niobrara, Original Hole
Perforated Liner	1/26/2015	6,454.0	6,456.0	Niobrara, Original Hole
Perforated Liner	1/26/2015	6,513.0	6,515.0	Niobrara, Original Hole
Perforated Liner	1/26/2015	6,572.0	6,574.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	6,630.0	6,632.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	6,690.0	6,692.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	6,749.0	6,751.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	6,812.0	6,814.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	6,867.0	6,869.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	6,922.0	6,924.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	6,985.0	6,987.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	7,041.0	7,043.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	7,104.0	7,106.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	7,161.0	7,163.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	7,210.0	7,212.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	7,279.0	7,281.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	7,344.0	7,346.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	7,400.0	7,402.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	7,456.0	7,458.0	Niobrara, Original Hole
Perforated Liner	1/25/2015	7,520.0	7,522.0	Niobrara, Original Hole

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Lot		Quarter 1 SE	Quarter 2 SE	Quarter 3	Quarter 4	Section 33	Section Suffix	Section Type		Township 10 N		Township N/S Dir		Range 58		Range E/W Dir W		Meridian		
Lateral/Horizontal - Original Hole, 4/10/2015 2:32:22 PM								Perforations												
MD (ftKB)		D (ft KB)	n (ft KB)	Vertical schematic (actual)				Logs	Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone			
22.0		22.0	3.0					Logs	Perforated Liner		1/25/2015		7,574.0		7,576.0		Niobrara, Original Hole			
60.7		60.7	4.0					Perforated Liner		1/25/2015		7,633.0		7,635.0		Niobrara, Original Hole				
1,536.4		1,536.4	4.0					Perforated Liner		1/25/2015		7,688.0		7,690.0		Niobrara, Original Hole				
1,600.1		1,600.1	4.1					Perforated Liner		1/25/2015		7,750.0		7,752.0		Niobrara, Original Hole				
2,774.3		2,774.3	7.0					Perforated Liner		1/25/2015		7,800.0		7,802.0		Niobrara, Original Hole				
3,308.7		3,308.7	4.4					Perforated Liner		1/25/2015		7,868.0		7,870.0		Niobrara, Original Hole				
4,418.6		4,418.6	2.5					Perforated Liner		1/25/2015		7,927.0		7,929.0		Niobrara, Original Hole				
4,983.3		4,983.3	0.3					Perforated Liner		1/25/2015		7,986.0		7,988.0		Niobrara, Original Hole				
4,988.2		4,988.2	0.3					Perforated Liner		1/25/2015		8,045.0		8,047.0		Niobrara, Original Hole				
4,995.4		4,995.4	0.3					Perforated Liner		1/25/2015		8,113.0		8,115.0		Niobrara, Original Hole				
5,664.0		5,664.0	22.1					Perforated Liner		1/25/2015		8,163.0		8,165.0		Niobrara, Original Hole				
5,699.8		5,699.8	0.3					Perforated Liner		1/25/2015		8,220.0		8,222.0		Niobrara, Original Hole				
6,035.4		6,035.4	0.3					Perforated Liner		1/25/2015		8,281.0		8,283.0		Niobrara, Original Hole				
6,086.9		6,086.9	0.3					Perforated Liner		1/25/2015		8,339.0		8,341.0		Niobrara, Original Hole				
6,160.1		6,160.1	0.3					Perforated Liner		1/25/2015		8,408.0		8,410.0		Niobrara, Original Hole				
6,221.1		6,221.1	0.3					Perforated Liner		1/25/2015		8,457.0		8,459.0		Niobrara, Original Hole				
6,330.1		6,330.1	0.3					Perforated Liner		1/25/2015		8,516.0		8,518.0		Niobrara, Original Hole				
6,392.1		6,392.1	0.3					Perforated Liner		1/25/2015		8,580.0		8,582.0		Niobrara, Original Hole				
6,513.1		6,513.1	0.3					Perforated Liner		1/25/2015		8,634.0		8,636.0		Niobrara, Original Hole				
6,574.1		6,574.1	0.3					Perforated Liner		1/25/2015		8,684.0		8,686.0		Niobrara, Original Hole				
6,690.0		6,690.0	0.3					Perforated Liner		1/25/2015		8,752.0		8,754.0		Niobrara, Original Hole				
6,751.0		6,751.0	0.3					Perforated Liner		1/25/2015		8,811.0		8,813.0		Niobrara, Original Hole				
6,867.1		6,867.1	0.3					Perforated Liner		1/25/2015		8,870.0		8,872.0		Niobrara, Original Hole				
6,923.9		6,923.9	0.3					Perforated Liner		1/25/2015		8,928.0		8,930.0		Niobrara, Original Hole				
7,041.0		7,041.0	0.3					Perforated Liner		1/25/2015		8,982.0		8,984.0		Niobrara, Original Hole				
7,106.0		7,106.0	0.3					Perforated Liner		1/25/2015		9,046.0		9,048.0		Niobrara, Original Hole				
7,210.0		7,210.0	0.3					Perforated Liner		1/25/2015		9,105.0		9,107.0		Niobrara, Original Hole				
7,280.8		7,280.8	0.3					Perforated Liner		1/25/2015		9,166.0		9,168.0		Niobrara, Original Hole				
7,399.9		7,399.9	0.3					Perforated Liner		1/25/2015		9,223.0		9,225.0		Niobrara, Original Hole				
7,458.0		7,458.0	0.3					Perforated Liner		1/25/2015		9,281.0		9,283.0		Niobrara, Original Hole				
7,574.1		7,574.1	0.3					Perforated Liner		1/25/2015		9,341.0		9,343.0		Niobrara, Original Hole				
7,634.8		7,634.8	0.3					Perforated Liner		1/25/2015		9,400.0		9,402.0		Niobrara, Original Hole				
7,750.0		7,750.0	0.3					Perforated Liner		1/25/2015		9,468.0		9,470.0		Niobrara, Original Hole				
7,801.8		7,801.8	0.3					Perforated Liner		1/25/2015		9,518.0		9,520.0		Niobrara, Original Hole				
7,868.0		7,868.0	0.3					Perforated Liner		1/25/2015		9,572.0		9,574.0		Niobrara, Original Hole				
7,926.8		7,926.8	0.3					Perforated Liner		1/25/2015		9,635.0		9,637.0		Niobrara, Original Hole				
7,987.9		7,987.9	0.3					Perforated Liner		1/25/2015		9,694.0		9,696.0		Niobrara, Original Hole				
8,112.9		8,112.9	0.3					Perforated Liner		1/25/2015		9,756.0		9,758.0		Niobrara, Original Hole				
8,165.0		8,165.0	0.3					Perforated Liner		1/25/2015		9,812.0		9,814.0		Niobrara, Original Hole				
8,280.8		8,280.8	0.3					Perforated Liner		1/25/2015		9,871.0		9,873.0		Niobrara, Original Hole				
8,340.9		8,340.9	0.3					Perforated Liner		1/25/2015		9,930.0		9,932.0		Niobrara, Original Hole				
8,457.0		8,457.0	0.3					Perforated Liner		1/25/2015		9,989.0		9,991.0		Niobrara, Original Hole				
8,518.0		8,518.0	0.3					Perforated Liner		1/25/2015		10,044.0		10,046.0		Niobrara, Original Hole				
8,633.9		8,633.9	0.3					Perforated Liner		1/25/2015		10,107.0		10,109.0		Niobrara, Original Hole				
8,686.0		8,686.0	0.3					Perforated Liner		1/25/2015		10,165.0		10,167.0		Niobrara, Original Hole				
8,811.0		8,811.0	0.3					Perforated Liner		1/25/2015		10,230.0		10,232.0		Niobrara, Original Hole				
8,872.0		8,872.0	0.3					Perforated Liner		1/25/2015		10,283.0		10,285.0		Niobrara, Original Hole				
8,982.0		8,982.0	0.3					Perforated Liner		1/25/2015		10,342.0		10,344.0		Niobrara, Original Hole				
9,047.9		9,047.9	0.3					Perforated Liner		1/25/2015		10,401.0		10,403.0		Niobrara, Original Hole				
9,166.0		9,166.0	0.3					Perforated Liner		1/25/2015		10,428.0		10,430.0		Niobrara, Original Hole				
9,225.1		9,225.1	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
9,340.9		9,340.9	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
9,401.9		9,401.9	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
9,518.0		9,518.0	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
9,574.1		9,574.1	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
9,693.9		9,693.9	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
9,757.9		9,757.9	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
9,871.1		9,871.1	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
9,932.1		9,932.1	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
10,044.0		10,044.0	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
10,108.9		10,108.9	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
10,230.0		10,230.0	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
10,285.1		10,285.1	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
10,400.9		10,400.9	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
10,430.1		10,430.1	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
10,492.1		10,492.1	0.3					Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole				
10,498.0		10,498.0	0.3	Perforated Liner		1/25/2015		10,430.0		10,430.0		Niobrara, Original Hole								



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051234021900				WPC ID 1CO0761109		Well Permit Number		Field Name DJ Horizontal Niobrara				County Weld		State CO													
Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 4,731.00		Ground Elevation (ft) 4,710.00		Casing Flange Elevation (ft)				Tubing Head Elevation (ft)		Total Depth (ftKB) 10,508.0													
Original Spud Date 11/14/2014		Completion Date 1/27/2015		Asset Group Redtail		Responsible Engineer Charles Ohlson				N/S Dist (ft) 330.0		N/S Ref FSL		E/W Dist (ft) 630.0		E/W Ref FEL											
Lot		Quarter 1 SE		Quarter 2 SE		Quarter 3		Quarter 4		Section 33		Section Suffix		Section Type		Township 10 N		Township N/S Dir N		Range 58		Range E/W Dir W		Meridian			
Lateral/Horizontal - Original Hole, 4/10/2015 2:32:23 PM										Additive Proppant				Type 40/70 Ottawa				Amount 2,436.0		Units lb		Sand Size 40/70					
MD (ftKB)		D (ft KB)		n (in)		c (in)		l (in)		Vertical schematic (actual)		Logs		Stg # 2		Start Date 1/22/2015		Top Depth (ftKB) 10,165.0		Bottom Depth (ftKB) 10,285.0		Vol Clean Pump (bbl) 3183.99		Vol Slurry (bbl)			
22.0		22.0		0.0										Additive Proppant				Type 20/40 Ottawa				Amount 147,973.0		Units lb		Sand Size 20/40	
60.7		60.7		0.0		Additive Proppant								Type 40/70 Ottawa				Amount 2,208.0		Units lb		Sand Size 40/70					
1,536.4		1,533.8		4.0				Stg # 3				Start Date 1/22/2015		Top Depth (ftKB) 9,989.0		Bottom Depth (ftKB) 10,109.0		Vol Clean Pump (bbl) 3451.78		Vol Slurry (bbl)							
1,600.1		1,597.3		4.1				Additive Proppant				Type 20/40 Ottawa				Amount 152,774.0		Units lb		Sand Size 20/40							
2,774.3		2,766.5		7.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,589.0		Units lb		Sand Size 40/70							
3,308.7		3,296.1		5.4				Stg # 4				Start Date 1/23/2015		Top Depth (ftKB) 9,812.0		Bottom Depth (ftKB) 9,932.0		Vol Clean Pump (bbl) 3200.07		Vol Slurry (bbl)							
4,418.6		4,404.2		3.5				Additive Proppant				Type 20/40 Ottawa				Amount 149,936.0		Units lb		Sand Size 20/40							
4,983.3		4,967.8		0.3				Additive Proppant				Type 40/70 Ottawa				Amount 4,048.0		Units lb		Sand Size 40/70							
4,988.2		4,972.7		0.3				Stg # 5				Start Date 1/23/2015		Top Depth (ftKB) 9,635.0		Bottom Depth (ftKB) 9,758.0		Vol Clean Pump (bbl) 3019.86		Vol Slurry (bbl)							
4,995.4		4,980.0		0.3				Additive Proppant				Type 20/40 Ottawa				Amount 130,088.0		Units lb		Sand Size 20/40							
5,664.0		5,644.5		0.7				Additive Proppant				Type 40/70 Ottawa				Amount 2,930.0		Units lb		Sand Size 40/70							
5,699.8		5,650.0		0.6				Stg # 6				Start Date 1/23/2015		Top Depth (ftKB) 9,468.0		Bottom Depth (ftKB) 9,574.0		Vol Clean Pump (bbl) 3179.82		Vol Slurry (bbl)							
6,035.4		6,053.4		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 149,163.0		Units lb		Sand Size 20/40							
6,086.9		6,060.2		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,478.0		Units lb		Sand Size 40/70							
6,160.1		6,075.2		0.0				Stg # 7				Start Date 1/23/2015		Top Depth (ftKB) 9,294.0		Bottom Depth (ftKB) 9,402.0		Vol Clean Pump (bbl) 3144.04		Vol Slurry (bbl)							
6,221.1		6,080.5		0.4				Additive Proppant				Type 20/40 Ottawa				Amount 153,814.0		Units lb		Sand Size 20/40							
6,330.1		6,084.4		0.6				Additive Proppant				Type 40/70 Ottawa				Amount 2,451.0		Units lb		Sand Size 40/70							
6,392.1		6,087.3		0.0				Stg # 8				Start Date 1/23/2015		Top Depth (ftKB) 9,105.0		Bottom Depth (ftKB) 9,225.0		Vol Clean Pump (bbl) 3089.64		Vol Slurry (bbl)							
6,513.1		6,087.6		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 147,722.0		Units lb		Sand Size 20/40							
6,574.1		6,087.2		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,527.0		Units lb		Sand Size 40/70							
6,690.0		6,086.0		0.0				Stg # 9				Start Date 1/24/2015		Top Depth (ftKB) 8,928.0		Bottom Depth (ftKB) 9,048.0		Vol Clean Pump (bbl) 3112.48		Vol Slurry (bbl)							
6,751.0		6,080.8		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 162,589.0		Units lb		Sand Size 20/40							
6,867.1		6,081.0		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 3,843.0		Units lb		Sand Size 40/70							
6,923.9		6,080.0		0.0				Stg # 10				Start Date 1/24/2015		Top Depth (ftKB) 8,752.0		Bottom Depth (ftKB) 8,872.0		Vol Clean Pump (bbl) 3103.12		Vol Slurry (bbl)							
7,041.0		6,084.4		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 157,392.0		Units lb		Sand Size 20/40							
7,106.0		6,084.3		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 3,470.0		Units lb		Sand Size 40/70							
7,210.0		6,085.1		0.0				Stg # 11				Start Date 1/24/2015		Top Depth (ftKB) 8,580.0		Bottom Depth (ftKB) 8,686.0		Vol Clean Pump (bbl) 3078.98		Vol Slurry (bbl)							
7,280.8		6,085.8		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 152,451.0		Units lb		Sand Size 20/40							
7,399.9		6,084.6		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,620.0		Units lb		Sand Size 40/70							
7,458.0		6,084.0		0.0				Stg # 12				Start Date 1/24/2015		Top Depth (ftKB) 8,408.0		Bottom Depth (ftKB) 8,518.0		Vol Clean Pump (bbl) 3027.37		Vol Slurry (bbl)							
7,574.1		6,084.2		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 152,866.0		Units lb		Sand Size 20/40							
7,634.8		6,083.7		0.4				Additive Proppant				Type 40/70 Ottawa				Amount 2,372.0		Units lb		Sand Size 40/70							
7,750.0		6,083.1		0.0				Stg # 13				Start Date 1/24/2015		Top Depth (ftKB) 8,220.0		Bottom Depth (ftKB) 8,341.0		Vol Clean Pump (bbl) 3430.09		Vol Slurry (bbl)							
7,801.8		6,083.8		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 150,845.0		Units lb		Sand Size 20/40							
7,926.8		6,085.4		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,323.0		Units lb		Sand Size 40/70							
7,987.9		6,085.2		0.0				Stg # 14				Start Date 1/24/2015		Top Depth (ftKB) 8,045.0		Bottom Depth (ftKB) 8,165.0		Vol Clean Pump (bbl) 3173.40		Vol Slurry (bbl)							
8,112.9		6,084.4		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 153,351.0		Units lb		Sand Size 20/40							
8,165.0		6,083.0		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,534.0		Units lb		Sand Size 40/70							
8,280.8		6,081.7		0.0				Stg # 15				Start Date 1/24/2015		Top Depth (ftKB) 7,868.0		Bottom Depth (ftKB) 7,988.0		Vol Clean Pump (bbl) 3067.53		Vol Slurry (bbl)							
8,340.9		6,082.1		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 154,290.0		Units lb		Sand Size 20/40							
8,457.0		6,084.5		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,466.0		Units lb		Sand Size 40/70							
8,518.0		6,085.0		0.0				Stg # 16				Start Date 1/25/2015		Top Depth (ftKB) 7,688.0		Bottom Depth (ftKB) 7,802.0		Vol Clean Pump (bbl) 3240.02		Vol Slurry (bbl)							
8,633.9		6,081.7		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 153,725.0		Units lb		Sand Size 20/40							
8,686.0		6,087.2		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,998.0		Units lb		Sand Size 40/70							
8,811.0		6,085.0		0.0				Stg # 17				Start Date 1/25/2015		Top Depth (ftKB) 7,520.0		Bottom Depth (ftKB) 7,635.0		Vol Clean Pump (bbl) 3013.83		Vol Slurry (bbl)							
8,872.0		6,082.0		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 157,409.0		Units lb		Sand Size 20/40							
8,982.0		6,080.7		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,998.0		Units lb		Sand Size 40/70							
9,047.9		6,081.0		0.0				Stg # 18				Start Date 1/25/2015		Top Depth (ftKB) 7,352.0		Bottom Depth (ftKB) 7,467.0		Vol Clean Pump (bbl) 3067.53		Vol Slurry (bbl)							
9,166.0		6,083.1		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 154,290.0		Units lb		Sand Size 20/40							
9,225.1		6,083.2		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,466.0		Units lb		Sand Size 40/70							
9,340.9		6,081.0		0.4				Stg # 19				Start Date 1/25/2015		Top Depth (ftKB) 7,184.0		Bottom Depth (ftKB) 7,299.0		Vol Clean Pump (bbl) 3173.40		Vol Slurry (bbl)							
9,401.9		6,080.3		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 153,351.0		Units lb		Sand Size 20/40							
9,518.0		6,081.7		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,534.0		Units lb		Sand Size 40/70							
9,574.1		6,082.0		0.0				Stg # 20				Start Date 1/25/2015		Top Depth (ftKB) 7,016.0		Bottom Depth (ftKB) 7,131.0		Vol Clean Pump (bbl) 3067.53		Vol Slurry (bbl)							
9,693.9		6,083.0		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 154,290.0		Units lb		Sand Size 20/40							
9,757.9		6,083.0		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,466.0		Units lb		Sand Size 40/70							
9,871.1		6,083.1		0.0				Stg # 21				Start Date 1/25/2015		Top Depth (ftKB) 6,848.0		Bottom Depth (ftKB) 6,963.0		Vol Clean Pump (bbl) 3173.40		Vol Slurry (bbl)							
9,932.1		6,083.1		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 157,409.0		Units lb		Sand Size 20/40							
10,044.0		6,083.0		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,998.0		Units lb		Sand Size 40/70							
10,108.9		6,081.7		0.4				Stg # 22				Start Date 1/25/2015		Top Depth (ftKB) 6,680.0		Bottom Depth (ftKB) 6,795.0		Vol Clean Pump (bbl) 3013.83		Vol Slurry (bbl)							
10,230.0		6,080.5		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 153,725.0		Units lb		Sand Size 20/40							
10,285.1		6,080.5		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,998.0		Units lb		Sand Size 40/70							
10,400.9		6,083.0		0.0				Stg # 23				Start Date 1/25/2015		Top Depth (ftKB) 6,512.0		Bottom Depth (ftKB) 6,627.0		Vol Clean Pump (bbl) 3173.40		Vol Slurry (bbl)							
10,430.1		6,080.0		0.0				Additive Proppant				Type 20/40 Ottawa				Amount 157,409.0		Units lb		Sand Size 20/40							
10,492.1		6,080.2		0.0				Additive Proppant				Type 40/70 Ottawa				Amount 2,466.0		Units lb		Sand Size 40/70							
10,498.0		6,080.1		0.0				Stg # 24				Start Date 1/25/2015		Top Depth (ftKB) 6,344.0		Bottom Depth (ftKB) 6,459.0		Vol Clean Pump (bbl) 3067.53		Vol Slurry (bbl)							





Lease Review  
Well Name: RAZOR 33P-3314

API Number 051234021900				WPC ID 1CO0761109				Well Permit Number				Field Name DJ Horizontal Niobrara				County Weld				State CO																	
Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 4,731.00				Ground Elevation (ft) 4,710.00				Casing Flange Elevation (ft)				Tubing Head Elevation (ft)				Total Depth (ftKB) 10,508.0																	
Original Spud Date 11/14/2014				Completion Date 1/27/2015				Asset Group Redtail				Responsible Engineer Charles Ohlson				N/S Dist (ft) 330.0				N/S Ref FSL				E/W Dist (ft) 630.0				E/W Ref FEL									
Lot				Quarter 1 SE		Quarter 2 SE		Quarter 3		Quarter 4		Section 33		Section Suffix		Section Type		Township 10 N		Township N/S Dir		Range 58		Range E/W Dir W		Meridian											
Lateral/Horizontal - Original Hole, 4/10/2015 2:32:25 PM																Additive Proppant				Type 40/70 Ottawa				Amount 3,077.0				Units lb				Sand Size 40/70					
MD (ftKB)		D (ft KB)		n (in)		c (in)		l (in)		Vertical schematic (actual)		Logs		Stg # 18		Start Date 1/25/2015				Top Depth (ftKB) 7,344.0				Bottom Depth (ftKB) 7,458.0				Vol Clean Pump (bbl) 2985.29				Vol Slurry (bbl)					
22.0		22.0		0.0		0.0		0.0		0.0				Additive Proppant		Type 20/40 Ottawa				Amount 148,376.0				Units lb				Sand Size 20/40									
60.7		60.7		0.0		0.0		0.0		0.0				Additive Proppant		Type 40/70 Ottawa				Amount 2,602.0				Units lb				Sand Size 40/70									
1,536.4		1,536.4		0.0		0.0		0.0		0.0				Stg # 19		Start Date 1/25/2015				Top Depth (ftKB) 7,161.0				Bottom Depth (ftKB) 7,281.0				Vol Clean Pump (bbl) 3018.95				Vol Slurry (bbl)					
1,600.1		1,600.1		0.0		0.0		0.0		0.0				Additive Proppant		Type 20/40 Ottawa				Amount 153,731.0				Units lb				Sand Size 20/40									
2,774.3		2,774.3		0.0		0.0		0.0		0.0				Additive Proppant		Type 40/70 Ottawa				Amount 2,599.0				Units lb				Sand Size 40/70									
3,308.7		3,308.7		0.0		0.0		0.0		0.0				Stg # 20		Start Date 1/25/2015				Top Depth (ftKB) 6,985.0				Bottom Depth (ftKB) 7,106.0				Vol Clean Pump (bbl) 2992.51				Vol Slurry (bbl)					
4,418.6		4,418.6		0.0		0.0		0.0		0.0				Additive Proppant		Type 20/40 Ottawa				Amount 152,931.0				Units lb				Sand Size 20/40									
4,983.3		4,983.3		0.0		0.0		0.0		0.0				Additive Proppant		Type 40/70 Ottawa				Amount 2,122.0				Units lb				Sand Size 40/70									
4,988.2		4,988.2		0.0		0.0		0.0		0.0				Stg # 21		Start Date 1/25/2015				Top Depth (ftKB) 6,812.0				Bottom Depth (ftKB) 6,924.0				Vol Clean Pump (bbl) 3043.36				Vol Slurry (bbl)					
4,995.4		4,995.4		0.0		0.0		0.0		0.0				Additive Proppant		Type 20/40 Ottawa				Amount 154,948.0				Units lb				Sand Size 20/40									
5,664.0		5,664.0		0.0		0.0		0.0		0.0				Additive Proppant		Type 40/70 Ottawa				Amount 2,350.0				Units lb				Sand Size 40/70									
5,699.8		5,699.8		0.0		0.0		0.0		0.0				Stg # 22		Start Date 1/25/2015				Top Depth (ftKB) 6,630.0				Bottom Depth (ftKB) 6,751.0				Vol Clean Pump (bbl) 2984.09				Vol Slurry (bbl)					
6,035.4		6,035.4		0.0		0.0		0.0		0.0				Additive Proppant		Type 20/40 Ottawa				Amount 151,960.0				Units lb				Sand Size 20/40									
6,086.9		6,086.9		0.0		0.0		0.0		0.0				Additive Proppant		Type 40/70 Ottawa				Amount 2,314.0				Units lb				Sand Size 40/70									
6,160.1		6,160.1		0.0		0.0		0.0		0.0				Stg # 23		Start Date 1/25/2015				Top Depth (ftKB) 6,454.0				Bottom Depth (ftKB) 6,574.0				Vol Clean Pump (bbl) 3042.47				Vol Slurry (bbl)					
6,221.1		6,221.1		0.0		0.0		0.0		0.0				Additive Proppant		Type 20/40 Ottawa				Amount 150,051.0				Units lb				Sand Size 20/40									
6,330.1		6,330.1		0.0		0.0		0.0		0.0				Additive Proppant		Type 40/70 Ottawa				Amount 2,172.0				Units lb				Sand Size 40/70									
6,392.1		6,392.1		0.0		0.0		0.0		0.0				Stg # 24		Start Date 1/26/2015				Top Depth (ftKB) 6,278.0				Bottom Depth (ftKB) 6,392.0				Vol Clean Pump (bbl) 2965.44				Vol Slurry (bbl)					
6,513.1		6,513.1		0.0		0.0		0.0		0.0				Additive Proppant		Type 20/40 Ottawa				Amount 151,436.0				Units lb				Sand Size 20/40									
6,574.1		6,574.1		0.0		0.0		0.0		0.0				Additive Proppant		Type 40/70 Ottawa				Amount 2,500.0				Units lb				Sand Size 40/70									
6,690.0		6,690.0		0.0		0.0		0.0		0.0				Stg # 25		Start Date 1/26/2015				Top Depth (ftKB) 6,101.0				Bottom Depth (ftKB) 6,221.0				Vol Clean Pump (bbl) 3028.45				Vol Slurry (bbl)					
6,751.0		6,751.0		0.0		0.0		0.0		0.0				Additive Proppant		Type 20/40 Ottawa				Amount 148,505.0				Units lb				Sand Size 20/40									
6,867.1		6,867.1		0.0		0.0		0.0		0.0				Additive Proppant		Type 40/70 Ottawa				Amount 2,514.0				Units lb				Sand Size 40/70									
6,923.9		6,923.9		0.0		0.0		0.0		0.0				Tubing - Production set at 5,706.5ftKB on 2/7/2015 06:00																							
7,041.0		7,041.0		0.0		0.0		0.0		0.0				Set Depth (ftKB) 5,706.5				Comment				Run Date 2/7/2015				Pull Date											
7,106.0		7,106.0		0.0		0.0		0.0		0.0				Item Des				OD (in)				ID (in)				Len (ft)				Top (ftKB)				Btm (ftKB)			
7,210.0		7,210.0		0.0		0.0		0.0		0.0				Tubing Hanger				7				1.995				0.60				21.0				21.6			
7,280.8		7,280.8		0.0		0.0		0.0		0.0				Cross Over				2 7/8				1.995				0.30				21.6				21.9			
7,399.9		7,399.9		0.0		0.0		0.0		0.0				Tubing				2 3/8				1.995				30.75				21.9				52.7			
7,458.0		7,458.0		0.0		0.0		0.0		0.0				2-3/8 L-80 4.7# EUE 8rd PUP JT				2 3/8				1.995				8.10				52.7				60.8			
7,574.1		7,574.1		0.0		0.0		0.0		0.0				Tubing				2 3/8				1.995				1,691.59				60.8				1,752.3			
7,634.8		7,634.8		0.0		0.0		0.0		0.0				Gas Lift Mandrel #7				2 3/8				1.995				4.05				1,752.3				1,756.4			
7,750.0		7,750.0		0.0		0.0		0.0		0.0				Tubing				2 3/8				1.995				1,017.79				1,756.4				2,774.2			
7,801.8		7,801.8		0.0		0.0		0.0		0.0				Gas Lift Mandrel #6				2 3/8				1.995				4.05				2,774.2				2,778.2			
7,926.8		7,926.8		0.0		0.0		0.0		0.0				Tubing				2 3/8				1.995				526.37				2,778.2				3,304.6			
7,987.9		7,987.9		0.0		0.0		0.0		0.0				Gas Lift Mandrel #5				2 3/8				1.995				4.05				3,304.6				3,308.7			
8,112.9		8,112.9		0.0		0.0		0.0		0.0				Tubing				2 3/8				1.995				551.12				3,308.7				3,859.8			
8,165.0		8,165.0		0.0		0.0		0.0		0.0				Gas Lift Mandrel #4				2 3/8				1.995				4.05				3,859.8				3,863.8			
8,280.8		8,280.8		0.0		0.0		0.0		0.0				Tubing				2 3/8				1.995				554.97				3,863.8				4,418.8			
8,340.9		8,340.9		0.0		0.0		0.0		0.0				Gas Lift Mandrel #3				2 3/8				1.995				4.05				4,418.8				4,422.8			
8,457.0		8,457.0		0.0		0.0		0.0		0.0				Tubing				2 3/8				1.995				556.45				4,422.8				4,979.3			
8,518.0		8,518.0		0.0		0.0		0.0		0.0				Gas Lift Mandrel #2				2 3/8				1.995				4.05				4,979.3				4,983.3			
8,633.9		8,633.9		0.0		0.0		0.0		0.0				Tubing				2 3/8				1.995				30.98				4,983.3				5,014.3			
8,686.0		8,686.0		0.0		0.0		0.0		0.0				Nipple				2 3/8				1.875				1.10				5,014.3				5,015.4			
8,811.0		8,811.0		0.0		0.0		0.0		0.0				Tubing				2 3/8				1.995				648.61				5,015.4				5,664.0			
8,872.0		8,872.0		0.0		0.0		0.0		0.0				Gas Lift Mandrel #1				2 3/8				1.995				4.05				5,664.0				5,668.1			
8,982.0		8,982.0		0.0		0.0		0.0		0.0				Tubing				2 3/8				1.995				30.37				5,668.1				5,698.5			
9,047.9		9,047.9		0.0		0.0		0.0		0.0				On-Off Tool				3 3/4				1.995				1.34				5,698.5				5,699.8			
9,166.0		9,166.0		0.0		0.0		0.0		0.0				Packer				3.766				1.922				6.75				5,699.8				5,706.5			
9,225.1		9,225.1		0.0		0.0		0.0		0.0				Rod Strings																							
9,340.9		9,340.9		0.0		0.0		0.0		0.0				Rod Description				Run Date				Pull Date															
9,401.9		9,401.9		0.0		0.0		0.0		0.0				Item Des				OD (in)				Len (ft)				Top (ftKB)				Btm (ftKB)							
9,518.0		9,518.0		0.0		0.0		0.0		0.0																											
9,574.1		9,574.1		0.0		0.0		0.0		0.0				Other Strings																							
9,693.9		9,693.9		0.0		0.0		0.0		0.0				Set Depth (ftKB)				Comment				Run Date				Pull Date											
9,757.9		9,757.9		0.0		0.0		0.0		0.0																											
9,871.1		9,871.1		0.0		0.0		0.0		0.0																											
9,932.1		9,932.1		0.0		0.0		0.0		0.0																											
10,044.0		10,044.0		0.0		0.0		0.0		0.0																											
10,108.9		10,108.9		0.0		0.0		0.0		0.0																											
10,230.0		10,230.0		0.0		0.0		0.0		0.0																											
10,285.1		10,285.1		0.0		0.0		0.0		0.0																											
10,400.9		10,400.9		0.0		0.0		0.0		0.0																											
10,430.1		10,430.1		0.0		0.0		0.0		0.0																											
10,492.1		10,492.1		0.0		0.0		0.0		0.0																											
10,498.0		10,498.0		0.0		0.0		0.0		0.0																											



Lease Review

Well Name: RAZOR 33P-3314

API Number 051234021900		WPC ID 1CO0761109		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO															
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft)		4,731.00		Ground Elevation (ft)		4,710.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB)		10,508.0									
Original Spud Date 11/14/2014		Completion Date 1/27/2015		Asset Group Redtail		Responsible Engineer Charles Ohlson		N/S Dist (ft)		330.0		N/S Ref FSL		E/W Dist (ft)		630.0		E/W Ref FEL							
Lot		Quarter 1 SE		Quarter 2 SE		Quarter 3		Quarter 4		Section 33		Section Suffix		Section Type		Township 10		Township N/S Dir N		Range 58		Range E/W Dir W		Meridian	
Lateral/Horizontal - Original Hole, 4/10/2015 2:32:26 PM										Item Des				OD (in)		Len (ft)				Top (ftKB)		Btm (ftKB)			
MD (ftKB)		D (ft KB)		n ( )		c ( )		l ( )		Vertical schematic (actual)		Logs		Other In Hole											
														Des		OD (in)		Run Date		Pull Date		Top (ftKB)		Btm (ftKB)	
														CFP	4	1/26/2015	2/5/2015	6,240.0	6,242.0						
22.0	22.0	3.2												CFP	4	1/26/2015	2/5/2015	6,412.0	6,414.0						
60.7	60.7	3.6												CFP	4	1/26/2015	2/5/2015	6,602.0	6,604.0						
1,536.4	1,533.8	4.6												CFP	4	1/25/2015	2/5/2015	6,778.0	6,780.0						
1,600.1	1,597.3	4.1												CFP	4	1/25/2015	2/5/2015	6,955.0	6,957.0						
2,774.3	2,766.5	7.0												CFP	4	1/25/2015	2/5/2015	7,120.0	7,122.0						
3,308.7	3,296.1	3.4												CFP	4	1/25/2015	2/5/2015	7,324.0	7,326.0						
4,418.6	4,404.2	3.5												CFP	4	1/25/2015	2/5/2015	7,485.0	7,487.0						
4,983.3	4,967.8	3.3												CFP	4	1/25/2015	2/5/2015	7,662.0	7,664.0						
4,988.2	4,972.7	3.3												CFP	4	1/25/2015	2/5/2015	7,839.0	7,841.0						
4,995.4	4,980.0	3.3												CFP	4	1/25/2015	2/5/2015	8,010.0	8,012.0						
5,664.0	5,644.5	32.1												CFP	4	1/24/2015	2/5/2015	8,192.0	8,194.0						
5,699.8	5,683.8	38.4												CFP	4	1/24/2015	2/5/2015	8,369.0	8,371.0						
6,035.4	6,053.4	31.8												CFP	4	1/24/2015	2/5/2015	8,546.0	8,548.0						
6,086.9	6,066.2	34.5												CFP	4	1/24/2015	2/5/2015	8,718.0	8,720.0						
6,160.1	6,075.2	38.7												CFP	4	1/24/2015	2/5/2015	8,890.0	8,892.0						
6,221.1	6,085.2	38.4												CFP	4	1/24/2015	2/5/2015	9,080.0	9,082.0						
6,330.1	6,084.4	38.6												CFP	4	1/24/2015	2/5/2015	9,252.0	9,254.0						
6,392.1	6,087.3	38.7												CFP	4	1/23/2015	2/5/2015	9,429.0	9,431.0						
6,513.1	6,087.6	38.8												CFP	4	1/23/2015	2/5/2015	9,606.0	9,608.0						
6,574.1	6,087.2	39.5												CFP	4	1/23/2015	2/5/2015	9,776.0	9,778.0						
6,690.0	6,086.5	39.2												CFP	4	1/23/2015	2/5/2015	9,950.0	9,952.0						
6,751.0	6,086.8	38.7												CFP	4	1/22/2015	2/5/2015	10,120.0	10,122.0						
6,867.1	6,091.6	37.6												CFP	4	1/22/2015	2/5/2015	10,304.0	10,306.0						
6,923.9	6,093.8	38.3												CFP	4	1/22/2015	2/5/2015	10,462.0	10,464.0						
Bottom Hole Cores																									
		Date		Core #		Top (ftKB)		Btm (ftKB)		Recov (ft)															