

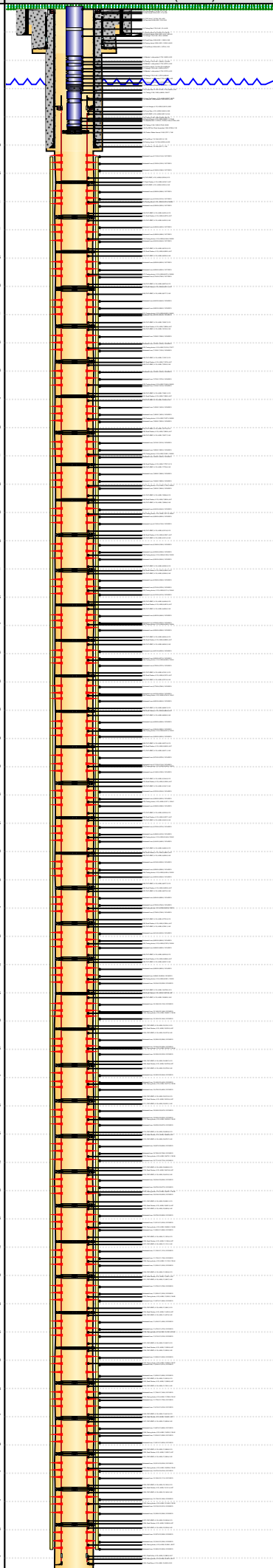
Lease Review All CR																	
Well Name: RAZOR 27L-3401B																	
API Number 051233773000		WPC ID 1CO076885		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO							
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,771.30		Ground Elevation (ft) 4,754.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,445.0							
Original Spud Date 8/25/2013		Completion Date 1/7/2014		Asset Group Redtail Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 2,448.0		N/S Ref FSL							
E/W Dist (ft) 627.0		E/W Ref FWL		Lot		Quarter 1 NW		Quarter 2 SW		Quarter 3 SE							
Quarter 4 NE		Section 27		Section Suffix		Section Type		Township 10 N		Township N/S Dir N							
Range 58 W		Meridian															
Lateral/Horizontal - Original Hole, 2/20/2014 1:32:21 PM				Wellbore Sections													
<div>Vertical schematic (actual)</div>				Wellbore Name				Start Date		Size (in)		Act Top (ftKB)		Act Btm (ftKB)			
				Original Hole				8/22/2013		18 5/8		17.3		80.0			
				Original Hole				8/25/2013		13 1/2		80.0		1,585.0			
				Original Hole				8/27/2013		8 3/4		1,585.0		6,100.0			
				Original Hole				8/31/2013		6		6,100.0		12,445.0			
Conductor Pipe, 80.0ftKB				OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des	
				16		84.00		J-55		17.3		80.0		62.70		Casing Joints	
Surface Csg, 1,574.5ftKB				OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des	
9 5/8				36.00		J-55		17.4		17.4		0.00		Landing Joint			
9 5/8				36.00		J-55		17.4		19.4		2.00		Well Head			
9 5/8				36.00		J-55		19.4		24.4		5.00		Pup Joint			
9 5/8				36.00		J-55		24.4		1,526.2		1,501.83		Casing Joints			
9 5/8				36.00		J-55		1,526.2		1,528.2		2.00		Float Collar			
9 5/8				36.00		J-55		1,528.2		1,573.0		44.82		Casing Joints			
9 5/8				36.00		J-55		1,573.0		1,574.5		1.50		Float Shoe			
Frac String, 5,021.5ftKB				OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des	
4 1/2				15.10		P-110		22.5		53.9		31.42		Casing Joints			
4 1/2				15.10		P-110		53.9		59.9		5.96		Pup Joint			
4 1/2				15.10		P-110		59.9		67.8		7.96		Pup Joint			
4 1/2				15.10		P-110		67.8		5,004.6		4,936.78		Casing Joints			
4 1/2				15.10		P-110		5,004.6		5,010.1		5.45		Pup Joint			
5 1/4								5,010.1		5,021.5		11.40		PBR seal assembly			
Intermediate Csg, 6,078.3ftKB				OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des	
7				29.00		L-80		17.3		17.3		0.00		Pup Joint			
7				29.00		L-80		17.3		18.3		1.00		Liner Hanger			
7				29.00		L-80		18.3		22.3		4.00		PUP JOINT			
7				29.00		L-80		22.3		6,031.6		6,009.24		Casing Joints			
7				29.00		L-80		6,031.6		6,032.8		1.25		Float Shoe			
7				29.00		L-80		6,032.8		6,077.1		44.25		Casing Joints			
7				29.00		L-80		6,077.1		6,078.3		1.25		Float Shoe			
Liner, 12,435.0ftKB				OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des	
4 1/2				11.60		SeAH-90		5,020.7		5,041.5		20.75		Liner Top Packer			
4 1/2				11.60		SeAH-90		5,041.5		5,048.3		6.80		Liner Hanger			
4 1/2				11.60		SeAH-90		5,048.3		5,051.3		3.00		Cross Over			
4 1/2				11.60		SeAH-90		5,051.3		5,056.7		5.44		PUP JOINT			
4 1/2				11.60		SeAH-90		5,056.7		6,229.6		1,172.89		Casing Joints			
4 1/2				11.60		SeAH-90		6,229.6		6,234.7		5.13		PUP JOINT			
4 1/2				11.60		SeAH-90		6,234.7		6,239.4		4.67		Swell Packer			
4 1/2				11.60		SeAH-90		6,239.4		6,241.8		2.42		PUP JOINT			
4 1/2				11.60		SeAH-90		6,241.8		6,422.4		180.56		Casing Joints			
4 1/2				11.60		SeAH-90		6,422.4		6,427.5		5.13		PUP JOINT			
4 1/2				11.60		SeAH-90		6,427.5		6,432.2		4.67		Swell Packer			
4 1/2				11.60		SeAH-90		6,432.2		6,434.6		2.42		PUP JOINT			
4 1/2				11.60		SeAH-90		6,434.6		6,615.2		180.56		Casing Joints			
4 1/2				11.60		SeAH-90		6,615.2		6,620.3		5.13		PUP JOINT			
4 1/2				11.60		SeAH-90		6,620.3		6,625.0		4.67		Swell Packer			
4 1/2				11.60		SeAH-90		6,625.0		6,627.4		2.42		PUP JOINT			
4 1/2				11.60		SeAH-90		6,627.4		6,808.0		180.56		Casing Joints			
4 1/2				11.60		SeAH-90		6,808.0		6,813.1		5.13		PUP JOINT			
4 1/2				11.60		SeAH-90		6,813.1		6,817.8		4.67		Swell Packer			
4 1/2				11.60		SeAH-90		6,817.8		6,820.2		2.42		PUP JOINT			
4 1/2				11.60		SeAH-90		6,820.2		7,000.7		180.52		Casing Joints			
4 1/2				11.60		SeAH-90		7,000.7		7,005.8		5.13		PUP JOINT			
4 1/2				11.60		SeAH-90		7,005.8		7,010.5		4.67		Swell Packer			
4 1/2				11.60		SeAH-90		7,010.5		7,012.9		2.42		PUP JOINT			
4 1/2				11.60		SeAH-90		7,012.9		7,192.7		179.77		Casing Joints			
4 1/2				11.60		SeAH-90		7,192.7		7,197.8		5.13		PUP JOINT			
4 1/2				11.60		SeAH-90		7,197.8		7,202.5		4.67		Swell Packer			
4 1/2				11.60		SeAH-90		7,202.5		7,204.9		2.42		PUP JOINT			
4 1/2				11.60		SeAH-90		7,204.9		7,385.1		180.20		Casing Joints			
4 1/2				11.60		SeAH-90		7,385.1		7,390.2		5.13		PUP JOINT			
4 1/2				11.60		SeAH-90		7,390.2		7,394.9		4.67		Swell Packer			
4 1/2				11.60		SeAH-90		7,394.9		7,397.3		2.42		PUP JOINT			
4 1/2				11.60		SeAH-90		7,397.3		7,577.9		180.56		Casing Joints			
4 1/2				11.60		SeAH-90		7,577.9		7,583.0		5.13		PUP JOINT			
4 1/2				11.60		SeAH-90		7,583.0		7,587.7		4.67		Swell Packer			
4 1/2				11.60		SeAH-90		7,587.7		7,590.1		2.42		PUP JOINT			
4 1/2				11.60		SeAH-90		7,590.1		7,770.7		180.60		Casing Joints			

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Lease Review All CR
Well Name: RAZOR 27L-3401B

API Number 051233773000			WPC ID 1CO076885			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO		
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,771.30		Ground Elevation (ft) 4,754.00		Casing Flange Elevation (ft)			Tubing Head Elevation (ft)		Total Depth (ftKB) 12,445.0		
Original Spud Date 8/25/2013		Completion Date 1/7/2014		Asset Group Redtail Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 2,448.0		N/S Ref FSL		E/W Dist (ft) 627.0		E/W Ref FWL
Lot		Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type		Township 10 N		Township N/S Dir		Range 58 W	Range E/W Dir	Meridian
Lateral/Horizontal - Original Hole, 2/20/2014 1:32:24 PM								OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des		
MD (ftKB)	TV D (ftKB)	n cl (° B)	Vertical schematic (actual)				Logs	4 1/2	11.60	SeAH-90	7,770.7	7,775.8	5.13	Swell Packer		
								4 1/2	11.60	SeAH-90	7,775.8	7,778.3	2.42	PUP JOINT		
39.7	39.7	0.0						4 1/2	11.60	SeAH-90	7,778.3	7,958.8	180.53	Casing Joints		
1,653.5	1,651.4	5.1						4 1/2	11.60	SeAH-90	7,958.8	7,963.9	5.13	PUP JOINT		
4,880.2	4,873.3	6.8						4 1/2	11.60	SeAH-90	7,963.9	7,968.6	4.67	Swell Packer		
5,056.8	5,049.8	6.9						4 1/2	11.60	SeAH-90	7,968.6	7,971.0	2.42	PUP JOINT		
6,077.1	5,721.9	86.9						4 1/2	11.60	SeAH-90	7,971.0	8,151.6	180.61	Casing Joints		
6,188.0	5,721.6	86.8						4 1/2	11.60	SeAH-90	8,151.6	8,156.7	5.13	PUP JOINT		
6,312.0	5,719.0	92.1						4 1/2	11.60	SeAH-90	8,156.7	8,161.4	4.67	Swell Packer		
6,452.1	5,715.7	90.1						4 1/2	11.60	SeAH-90	8,161.4	8,163.8	2.42	PUP JOINT		
6,627.3	5,715.1	90.5						4 1/2	11.60	SeAH-90	8,163.8	8,299.2	135.35	Casing Joints		
6,813.0	5,712.1	89.8						4 1/2	11.60	SeAH-90	8,299.2	8,304.3	5.13	PUP JOINT		
6,921.9	5,712.6	90.1						4 1/2	11.60	SeAH-90	8,304.3	8,309.0	4.67	Swell Packer		
7,076.1	5,711.6	89.4						4 1/2	11.60	SeAH-90	8,309.0	8,311.4	2.42	PUP JOINT		
7,230.0	5,710.8	91.3						4 1/2	11.60	SeAH-90	8,311.4	8,446.8	135.40	Casing Joints		
7,395.0	5,710.7	90.7						4 1/2	11.60	SeAH-90	8,446.8	8,451.9	5.13	PUP JOINT		
7,577.8	5,714.8	86.8						4 1/2	11.60	SeAH-90	8,451.9	8,456.6	4.67	Swell Packer		
7,690.0	5,719.0	98.1						4 1/2	11.60	SeAH-90	8,456.6	8,459.0	2.42	PUP JOINT		
7,850.1	5,714.7	93.3						4 1/2	11.60	SeAH-90	8,459.0	8,594.4	135.38	Casing Joints		
8,044.0	5,708.2	90.8						4 1/2	11.60	SeAH-90	8,594.4	8,599.5	5.13	PUP JOINT		
8,163.7	5,704.7	91.3						4 1/2	11.60	SeAH-90	8,599.5	8,604.2	4.67	Swell Packer		
8,304.5	5,704.3	91.1						4 1/2	11.60	SeAH-90	8,604.2	8,606.6	2.42	PUP JOINT		
8,412.1	5,704.2	90.5						4 1/2	11.60	SeAH-90	8,606.6	8,742.1	135.44	Casing Joints		
8,522.0	5,703.4	90.7						4 1/2	11.60	SeAH-90	8,742.1	8,747.2	5.13	PUP JOINT		
8,632.9	5,702.0	91.4						4 1/2	11.60	SeAH-90	8,747.2	8,751.9	4.67	Swell Packer		
8,754.3	5,702.8	89.5						4 1/2	11.60	SeAH-90	8,751.9	8,754.3	2.42	PUP JOINT		
8,894.7	5,699.6	90.8						4 1/2	11.60	SeAH-90	8,754.3	8,889.7	135.41	Casing Joints		
9,002.0	5,699.7	89.9						4 1/2	11.60	SeAH-90	8,889.7	8,894.8	5.13	PUP JOINT		
9,113.8	5,702.4	89.0						4 1/2	11.60	SeAH-90	8,894.8	8,899.5	4.67	Swell Packer		
9,224.1	5,705.3	88.4						4 1/2	11.60	SeAH-90	8,899.5	8,901.9	2.42	PUP JOINT		
9,344.8	5,707.6	89.5						4 1/2	11.60	SeAH-90	8,901.9	9,037.3	135.43	Casing Joints		
9,485.2	5,705.8	91.0						4 1/2	11.60	SeAH-90	9,037.3	9,042.5	5.13	PUP JOINT		
9,594.2	5,704.0	91.0						4 1/2	11.60	SeAH-90	9,042.5	9,047.1	4.67	Swell Packer		
9,704.1	5,702.8	90.7						4 1/2	11.60	SeAH-90	9,047.1	9,049.6	2.42	PUP JOINT		
9,815.9	5,702.7	91.3						4 1/2	11.60	SeAH-90	9,049.6	9,184.9	135.35	Casing Joints		
9,935.0	5,702.5	89.2						4 1/2	11.60	SeAH-90	9,184.9	9,190.0	5.13	PUP JOINT		
10,075.5	5,701.9	89.5						4 1/2	11.60	SeAH-90	9,190.0	9,194.7	4.67	Swell Packer		
10,184.1	5,701.4	91.0						4 1/2	11.60	SeAH-90	9,194.7	9,197.1	2.42	PUP JOINT		
10,295.9	5,701.6	89.5						4 1/2	11.60	SeAH-90	9,197.1	9,332.5	135.41	Casing Joints		
10,394.0	5,702.9	90.7						4 1/2	11.60	SeAH-90	9,332.5	9,337.7	5.13	PUP JOINT		
10,525.6	5,701.3	89.8						4 1/2	11.60	SeAH-90	9,337.7	9,342.3	4.67	Swell Packer		
10,666.0	5,702.0	90.5						4 1/2	11.60	SeAH-90	9,342.3	9,344.8	2.42	PUP JOINT		
10,773.0	5,702.6	89.3						4 1/2	11.60	SeAH-90	9,344.8	9,480.2	135.40	Casing Joints		
10,877.0	5,705.0	89.8						4 1/2	11.60	SeAH-90	9,480.2	9,485.3	5.13	PUP JOINT		
10,980.0	5,706.6	89.4						4 1/2	11.60	SeAH-90	9,485.3	9,490.0	4.67	Swell Packer		
11,115.5	5,708.3	91.2						4 1/2	11.60	SeAH-90	9,490.0	9,492.4	2.42	PUP JOINT		
11,256.2	5,706.5	89.0						4 1/2	11.60	SeAH-90	9,492.4	9,627.7	135.35	Casing Joints		
11,369.1	5,709.6	89.3						4 1/2	11.60	SeAH-90	9,627.7	9,632.9	5.13	PUP JOINT		
11,472.1	5,712.8	89.6						4 1/2	11.60	SeAH-90	9,632.9	9,637.5	4.67	Swell Packer		
11,591.9	5,713.6	91.0						4 1/2	11.60	SeAH-90	9,637.5	9,640.0	2.42	PUP JOINT		
11,705.7	5,710.9	91.3						4 1/2	11.60	SeAH-90	9,640.0	9,775.3	135.35	Casing Joints		
11,846.1	5,707.7	90.7						4 1/2	11.60	SeAH-90	9,775.3	9,780.4	5.13	PUP JOINT		
11,962.9	5,705.4	91.8						4 1/2	11.60	SeAH-90	9,780.4	9,785.1	4.67	Swell Packer		
12,074.1	5,704.3	89.7						4 1/2	11.60	SeAH-90	9,785.1	9,787.5	2.42	PUP JOINT		
12,180.1	5,706.2	89.7						4 1/2	11.60	SeAH-90	9,787.5	9,922.9	135.38	Casing Joints		
12,295.9	5,708.5	89.4						4 1/2	11.60	SeAH-90	9,922.9	9,928.0	5.13	PUP JOINT		
12,387.5	5,708.4	90.7						4 1/2	11.60	SeAH-90	9,928.0	9,932.7	4.67	Swell Packer		
								4 1/2	11.60	SeAH-90	9,932.7	9,935.1	2.42	PUP JOINT		
								4 1/2	11.60	SeAH-90	9,935.1	10,070.5	135.35	Casing Joints		
								4 1/2	11.60	SeAH-90	10,070.5	10,075.6	5.13	PUP JOINT		
								4 1/2	11.60	SeAH-90	10,075.6	10,080.3	4.67	Swell Packer		
								4 1/2	11.60	SeAH-90	10,080.3	10,082.7	2.42	PUP JOINT		
								4 1/2	11.60	SeAH-90	10,082.7	10,218.1	135.38	Casing Joints		
								4 1/2	11.60	SeAH-90	10,218.1	10,223.2	5.13	PUP JOINT		
								4 1/2	11.60	SeAH-90	10,223.2	10,227.9	4.67	Swell Packer		
								4 1/2	11.60	SeAH-90	10,227.9	10,230.3	2.42	PUP JOINT		
								4 1/2	11.60	SeAH-90	10,230.3	10,365.7	135.36	Casing Joints		
								4 1/2	11.60	SeAH-90	10,365.7	10,370.8	5.13	PUP JOINT		
								4 1/2	11.60	SeAH-90	10,370.8	10,375.5	4.67	Swell Packer		
								4 1/2	11.60	SeAH-90	10,375.5	10,377.9	2.42	PUP JOINT		
								4 1/2	11.60	SeAH-90	10,377.9	10,513.3	135.38	Casing Joints		

Lease Review All CR															
Well Name: RAZOR 27L-3401B															
API Number 051233773000			WPC ID 1CO076885			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO	
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 4,771.30			Ground Elevation (ft) 4,754.00			Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,445.0		
Original Spud Date 8/25/2013		Completion Date 1/7/2014		Asset Group Redtail Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 2,448.0		N/S Ref FSL		E/W Dist (ft) 627.0	E/W Ref FWL
Lot		Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type		Township 10 N	Township N/S Dir		Range 58 W	Meridian	
Lateral/Horizontal - Original Hole, 2/20/2014 1:32:27 PM															
		TV D (ftKB)	n cl (° B)				OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des		
MD (ftKB)															
				Vertical schematic (actual)			Logs								



Lease Review All CR
Well Name: RAZOR 27L-3401B

API Number	WPC ID	Well Permit Number	Field Name	County	State
05123773000	1CO076885		DJ Horizontal Niobrara	Weld	CO
Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,771.30	4,754.00			12,445.0
Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref
8/25/2013	1/7/2014	Redtail Asset Group	Gary Nordlander	2,448.0	FSL
				E/W Dist (ft)	E/W Ref
				627.0	FWL
Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section
	NW	SW			27
					Section Suffix
					Section Type
					Township
					10 N
					Range
					58 W
					Meridian

Lateral/Horizontal - Original Hole, 2/20/2014 1:32:30 PM					Perforations				
MD (ftKB)	TV D (ftKB)	n cl (° B)	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
					Perforated Liner	12/17/2013	6,310.0	6,312.0	Niobrara, Original Hole
39.7	39.7	0.0			Perforated Liner	12/17/2013	6,350.0	6,352.0	Niobrara, Original Hole
1,653.5	1,651.4	5.1			Perforated Liner	12/17/2013	6,450.0	6,452.0	Niobrara, Original Hole
4,880.2	4,873.3	0.8			Perforated Liner	12/17/2013	6,496.0	6,498.0	Niobrara, Original Hole
5,056.8	5,049.8	0.8			Perforated Liner	12/17/2013	6,542.0	6,544.0	Niobrara, Original Hole
6,077.1	5,721.9	88.9			Perforated Liner	12/17/2013	6,650.0	6,652.0	Niobrara, Original Hole
6,188.0	5,721.8	89.0			Perforated Liner	12/17/2013	6,690.0	6,692.0	Niobrara, Original Hole
6,312.0	5,719.0	92.1			Perforated Liner	12/17/2013	6,734.0	6,736.0	Niobrara, Original Hole
6,452.1	5,715.7	96.1			Perforated Liner	12/16/2013	6,842.0	6,844.0	Niobrara, Original Hole
6,627.3	5,715.1	95.5			Perforated Liner	12/16/2013	6,882.0	6,884.0	Niobrara, Original Hole
6,813.0	5,712.1	96.8			Perforated Liner	12/16/2013	6,922.0	6,924.0	Niobrara, Original Hole
6,921.9	5,712.8	96.1			Perforated Liner	12/16/2013	7,036.0	7,038.0	Niobrara, Original Hole
7,076.1	5,711.6	96.4			Perforated Liner	12/16/2013	7,076.0	7,078.0	Niobrara, Original Hole
7,230.0	5,710.8	91.3			Perforated Liner	12/16/2013	7,120.0	7,122.0	Niobrara, Original Hole
7,395.0	5,710.7	90.7			Perforated Liner	12/16/2013	7,230.0	7,232.0	Niobrara, Original Hole
7,577.8	5,714.8	88.8			Perforated Liner	12/16/2013	7,270.0	7,272.0	Niobrara, Original Hole
7,690.0	5,719.0	88.1			Perforated Liner	12/16/2013	7,310.0	7,312.0	Niobrara, Original Hole
7,850.1	5,714.7	93.3			Perforated Liner	12/16/2013	7,420.0	7,422.0	Niobrara, Original Hole
8,044.0	5,708.2	96.8			Perforated Liner	12/16/2013	7,460.0	7,462.0	Niobrara, Original Hole
8,163.7	5,704.7	91.3			Perforated Liner	12/16/2013	7,500.0	7,502.0	Niobrara, Original Hole
8,304.5	5,704.3	91.1			Perforated Liner	12/16/2013	7,610.0	7,612.0	Niobrara, Original Hole
8,412.1	5,704.2	90.5			Perforated Liner	12/16/2013	7,650.0	7,652.0	Niobrara, Original Hole
8,522.0	5,703.4	89.7			Perforated Liner	12/16/2013	7,690.0	7,692.0	Niobrara, Original Hole
8,632.9	5,702.0	91.4			Perforated Liner	12/16/2013	7,706.0	7,708.0	Niobrara, Original Hole
8,754.3	5,702.8	89.0			Perforated Liner	12/16/2013	7,848.0	7,850.0	Niobrara, Original Hole
8,894.7	5,699.6	90.8			Perforated Liner	12/16/2013	7,892.0	7,894.0	Niobrara, Original Hole
9,002.0	5,699.7	89.9			Perforated Liner	12/15/2013	8,042.0	8,044.0	Niobrara, Original Hole
9,113.8	5,702.4	89.0			Perforated Liner	12/15/2013	8,080.0	8,082.0	Niobrara, Original Hole
9,224.1	5,705.3	88.4			Perforated Liner	12/15/2013	8,116.0	8,118.0	Niobrara, Original Hole
9,344.8	5,707.6	89.5			Perforated Liner	12/15/2013	8,188.0	8,190.0	Niobrara, Original Hole
9,485.2	5,705.8	91.0			Perforated Liner	12/15/2013	8,226.0	8,228.0	Niobrara, Original Hole
9,594.2	5,704.0	91.0			Perforated Liner	12/15/2013	8,262.0	8,264.0	Niobrara, Original Hole
9,704.1	5,702.8	89.7			Perforated Liner	12/15/2013	8,336.0	8,338.0	Niobrara, Original Hole
9,815.9	5,702.7	91.3			Perforated Liner	12/15/2013	8,374.0	8,376.0	Niobrara, Original Hole
9,935.0	5,702.5	89.3			Perforated Liner	12/15/2013	8,410.0	8,412.0	Niobrara, Original Hole
10,075.5	5,701.9	89.5			Perforated Liner	12/15/2013	8,482.0	8,484.0	Niobrara, Original Hole
10,184.1	5,701.4	91.0			Perforated Liner	12/15/2013	8,520.0	8,522.0	Niobrara, Original Hole
10,295.9	5,701.6	89.5			Perforated Liner	12/15/2013	8,556.0	8,558.0	Niobrara, Original Hole
10,394.0	5,702.9	90.7			Perforated Liner	12/15/2013	8,631.0	8,633.0	Niobrara, Original Hole
10,525.6	5,701.3	89.8							
10,666.0	5,702.0	90.5							
10,773.0	5,702.6	88.3							
10,877.0	5,705.0	89.8							
10,980.0	5,706.6	89.6							
11,115.5	5,705.3	91.3							
11,256.2	5,706.5	89.0							
11,369.1	5,709.6	88.3							
11,472.1	5,712.8	89.6							
11,591.9	5,713.6	91.0							
11,705.7	5,719.3	91.3							
11,846.1	5,707.7	90.7							
11,962.9	5,705.4	91.9							
12,074.1	5,704.3	89.7							
12,180.1	5,706.2	89.7							
12,295.9	5,708.5	88.4							
12,387.5	5,708.4	90.7							



Lease Review All CR
Well Name: RAZOR 27L-3401B

API Number	WPC ID	Well Permit Number	Field Name	County	State
051233773000	1CO076885		DJ Horizontal Niobrara	Weld	CO
Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,771.30	4,754.00			12,445.0
Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref
8/25/2013	1/7/2014	Redtail Asset Group	Gary Nordlander	2,448.0	FSL
				E/W Dist (ft)	E/W Ref
				627.0	FWL
Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section
	NW	SW			27
			Section Suffix	Section Type	Township
					10 N
			Range	Range E/W Dir	Meridian
			58	W	

Lateral/Horizontal - Original Hole, 2/20/2014 1:32:33 PM						Perforations				
MD (ftKB)	TV D (ftKB)	n cl (° B)	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone	
					Perforated Liner	12/15/2013	8,669.0	8,671.0	Niobrara, Original Hole	
39.7	39.7	0.0			Perforated Liner	12/15/2013	8,705.0	8,707.0	Niobrara, Original Hole	
1,653.5	1,651.4	5.1			Perforated Liner	12/15/2013	8,778.0	8,780.0	Niobrara, Original Hole	
4,880.2	4,873.3	0.8			Perforated Liner	12/15/2013	8,816.0	8,818.0	Niobrara, Original Hole	
5,056.8	5,049.8	0.6			Perforated Liner	12/15/2013	8,852.0	8,854.0	Niobrara, Original Hole	
6,077.1	5,721.9	88.9			Perforated Liner	12/15/2013	8,926.0	8,928.0	Niobrara, Original Hole	
6,188.0	5,721.8	89.0			Perforated Liner	12/15/2013	8,964.0	8,966.0	Niobrara, Original Hole	
6,312.0	5,719.0	92.1			Perforated Liner	12/15/2013	9,000.0	9,002.0	Niobrara, Original Hole	
6,452.1	5,715.7	96.1			Perforated Liner	12/15/2013	9,074.0	9,076.0	Niobrara, Original Hole	
6,627.3	5,715.1	95.5			Perforated Liner	12/15/2013	9,112.0	9,114.0	Niobrara, Original Hole	
6,813.0	5,712.1	96.8			Perforated Liner	12/14/2013	9,148.0	9,150.0	Niobrara, Original Hole	
6,921.9	5,712.6	96.1			Perforated Liner	12/14/2013	9,222.0	9,224.0	Niobrara, Original Hole	
7,076.1	5,711.6	96.4			Perforated Liner	12/14/2013	9,260.0	9,262.0	Niobrara, Original Hole	
7,230.0	5,710.8	91.3			Perforated Liner	12/14/2013	9,296.0	9,298.0	Niobrara, Original Hole	
7,395.0	5,710.7	90.7			Perforated Liner	12/14/2013	9,370.0	9,372.0	Niobrara, Original Hole	
7,577.8	5,714.8	88.8			Perforated Liner	12/14/2013	9,408.0	9,410.0	Niobrara, Original Hole	
7,690.0	5,719.0	88.1			Perforated Liner	12/14/2013	9,444.0	9,446.0	Niobrara, Original Hole	
7,850.1	5,714.7	93.3			Perforated Liner	12/14/2013	9,518.0	9,520.0	Niobrara, Original Hole	
8,044.0	5,708.2	96.8			Perforated Liner	12/14/2013	9,556.0	9,558.0	Niobrara, Original Hole	
8,163.7	5,704.7	91.3			Perforated Liner	12/14/2013	9,592.0	9,594.0	Niobrara, Original Hole	
8,304.5	5,704.3	91.1			Perforated Liner	12/14/2013	9,664.0	9,668.0	Niobrara, Original Hole	
8,412.1	5,704.2	90.5			Perforated Liner	12/14/2013	9,702.0	9,704.0	Niobrara, Original Hole	
8,522.0	5,703.4	89.7			Perforated Liner	12/14/2013	9,738.0	9,740.0	Niobrara, Original Hole	
8,632.9	5,702.0	91.4			Perforated Liner	12/14/2013	9,814.0	9,816.0	Niobrara, Original Hole	
8,754.3	5,701.8	89.0			Perforated Liner	12/14/2013	9,852.0	9,854.0	Niobrara, Original Hole	
8,894.7	5,699.6	90.8			Perforated Liner	12/14/2013	9,888.0	9,890.0	Niobrara, Original Hole	
9,002.0	5,699.7	89.9			Perforated Liner	12/14/2013	9,960.0	9,962.0	Niobrara, Original Hole	
9,113.8	5,702.4	89.0			Perforated Liner	12/14/2013	9,998.0	10,000.0	Niobrara, Original Hole	
9,224.1	5,705.3	88.4			Perforated Liner	12/14/2013	10,034.0	10,036.0	Niobrara, Original Hole	
9,344.8	5,707.6	89.5			Perforated Liner	12/14/2013	10,108.0	10,110.0	Niobrara, Original Hole	
9,485.2	5,705.8	91.0			Perforated Liner	12/14/2013	10,146.0	10,148.0	Niobrara, Original Hole	
9,594.2	5,704.0	91.0			Perforated Liner	12/14/2013	10,182.0	10,184.0	Niobrara, Original Hole	
9,704.1	5,702.8	89.7			Perforated Liner	12/14/2013	10,256.0	10,258.0	Niobrara, Original Hole	
9,815.9	5,702.7	91.3			Perforated Liner	12/14/2013	10,294.0	10,296.0	Niobrara, Original Hole	
9,935.0	5,702.5	89.5			Perforated Liner	12/14/2013	10,330.0	10,332.0	Niobrara, Original Hole	
10,075.5	5,701.9	89.5			Perforated Liner	12/14/2013	10,392.0	10,394.0	Niobrara, Original Hole	
10,184.1	5,701.4	91.0			Perforated Liner	12/14/2013	10,440.0	10,442.0	Niobrara, Original Hole	
10,295.9	5,701.6	89.5			Perforated Liner	12/14/2013	10,478.0	10,480.0	Niobrara, Original Hole	
10,394.0	5,702.9	90.7			Perforated Liner	12/14/2013	10,545.0	10,547.0	Niobrara, Original Hole	
10,525.6	5,701.3	89.8			Perforated Liner	12/13/2013				
10,666.0	5,702.0	90.5			Perforated Liner	12/13/2013				
10,773.0	5,702.6	88.3			Perforated Liner	12/13/2013				
10,877.0	5,705.0	89.8			Perforated Liner	12/13/2013				
10,980.0	5,706.6	89.6			Perforated Liner	12/13/2013				
11,115.5	5,705.3	91.3			Perforated Liner	12/13/2013				
11,256.2	5,706.5	89.0			Perforated Liner	12/13/2013				
11,369.1	5,709.6	88.3			Perforated Liner	12/13/2013				
11,472.1	5,712.8	89.6			Perforated Liner	12/13/2013				
11,591.9	5,713.6	91.0			Perforated Liner	12/13/2013				
11,705.7	5,719.3	91.3			Perforated Liner	12/13/2013				
11,846.1	5,707.7	90.7			Perforated Liner	12/13/2013				
11,962.9	5,705.4	91.9			Perforated Liner	12/13/2013				
12,074.1	5,704.3	89.7			Perforated Liner	12/13/2013				
12,180.1	5,706.2	89.7			Perforated Liner	12/13/2013				
12,295.9	5,708.5	88.4			Perforated Liner	12/13/2013				
12,387.5	5,708.4	90.7			Perforated Liner	12/13/2013				




Lease Review All CR
Well Name: RAZOR 27L-3401B

API Number	WPC ID	Well Permit Number	Field Name	County	State
05123773000	1CO076885		DJ Horizontal Niobrara	Weld	CO
Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,771.30	4,754.00			12,445.0
Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref
8/25/2013	1/7/2014	Redtail Asset Group	Gary Nordlander	2,448.0	FSL
				E/W Dist (ft)	E/W Ref
				627.0	FWL
Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section
	NW	SW			27
					Section Suffix
					Section Type
					Township
					10 N
					Range
					58 W
					Meridian

Lateral/Horizontal - Original Hole, 2/20/2014 1:32:36 PM				Perforations					
MD (ftKB)	TV D (ftKB)	n cl (° B)			Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
				Logs	Perforated Liner	12/13/2013	10,590.0	10,592.0	Niobrara, Original Hole
39.7	39.7	0.0		Perforated Liner	12/13/2013	10,625.0	10,627.0	Niobrara, Original Hole	
1,653.5	1,651.4	5.1		Perforated Liner	12/13/2013	10,687.0	10,689.0	Niobrara, Original Hole	
4,880.2	4,873.3	0.8		Perforated Liner	12/13/2013	10,726.0	10,728.0	Niobrara, Original Hole	
5,056.8	5,049.8	0.6		Perforated Liner	12/13/2013	10,771.0	10,773.0	Niobrara, Original Hole	
6,077.1	5,721.9	88.9		Perforated Liner	12/13/2013	10,834.0	10,836.0	Niobrara, Original Hole	
6,188.0	5,721.6	86.6		Perforated Liner	12/13/2013	10,875.0	10,877.0	Niobrara, Original Hole	
6,312.0	5,719.0	92.1		Perforated Liner	12/13/2013	10,918.0	10,920.0	Niobrara, Original Hole	
6,452.1	5,715.7	96.1		Perforated Liner	12/13/2013	10,978.0	10,980.0	Niobrara, Original Hole	
6,627.3	5,715.1	96.5		Perforated Liner	12/13/2013	11,021.0	11,023.0	Niobrara, Original Hole	
6,813.0	5,712.1	90.8		Perforated Liner	12/13/2013	11,066.0	11,068.0	Niobrara, Original Hole	
6,921.9	5,712.8	90.1		Perforated Liner	12/13/2013	11,129.0	11,131.0	Niobrara, Original Hole	
7,076.1	5,711.6	90.4		Perforated Liner	12/13/2013	11,176.0	11,178.0	Niobrara, Original Hole	
7,230.0	5,710.8	91.3		Perforated Liner	12/12/2013	11,220.0	11,222.0	Niobrara, Original Hole	
7,395.0	5,710.7	90.7		Perforated Liner	12/12/2013	11,276.0	11,278.0	Niobrara, Original Hole	
7,577.8	5,714.8	88.8		Perforated Liner	12/12/2013	11,320.0	11,322.0	Niobrara, Original Hole	
7,690.0	5,719.0	88.1		Perforated Liner	12/12/2013	11,367.0	11,369.0	Niobrara, Original Hole	
7,850.1	5,714.7	93.3		Perforated Liner	12/12/2013	11,424.0	11,426.0	Niobrara, Original Hole	
8,044.0	5,708.2	90.8		Perforated Liner	12/12/2013	11,470.0	11,472.0	Niobrara, Original Hole	
8,163.7	5,704.7	91.3		Perforated Liner	12/12/2013	11,513.0	11,515.0	Niobrara, Original Hole	
8,304.5	5,704.3	91.1		Perforated Liner	12/12/2013	11,590.0	11,592.0	Niobrara, Original Hole	
8,412.1	5,704.2	90.5		Perforated Liner	12/12/2013	11,629.0	11,631.0	Niobrara, Original Hole	
8,522.0	5,703.4	89.7		Perforated Liner	12/12/2013	11,693.0	11,695.0	Niobrara, Original Hole	
8,632.9	5,702.0	91.4		Perforated Liner	12/12/2013	11,738.0	11,740.0	Niobrara, Original Hole	
8,754.3	5,700.8	88.6		Perforated Liner	12/12/2013	11,776.0	11,778.0	Niobrara, Original Hole	
8,894.7	5,699.6	90.8		Perforated Liner	12/12/2013	11,813.0	11,815.0	Niobrara, Original Hole	
9,002.0	5,699.7	88.9		Perforated Liner	12/12/2013	11,887.0	11,889.0	Niobrara, Original Hole	
9,113.8	5,702.4	88.0		Perforated Liner	12/12/2013	11,924.0	11,926.0	Niobrara, Original Hole	
9,224.1	5,705.3	88.4		Perforated Liner	12/12/2013	11,961.0	11,963.0	Niobrara, Original Hole	
9,344.8	5,707.6	88.5		Perforated Liner	12/12/2013	12,031.0	12,033.0	Niobrara, Original Hole	
9,485.2	5,705.8	91.0		Perforated Liner	12/12/2013	12,072.0	12,074.0	Niobrara, Original Hole	
9,594.2	5,704.0	91.0		Perforated Liner	12/12/2013	12,109.0	12,111.0	Niobrara, Original Hole	
9,704.1	5,702.8	89.7		Perforated Liner	12/11/2013	12,178.0	12,180.0	Niobrara, Original Hole	
9,815.9	5,702.7	91.3		Perforated Liner	12/11/2013	12,219.0	12,221.0	Niobrara, Original Hole	
9,935.0	5,702.5	89.3		Perforated Liner	12/11/2013	12,256.0	12,258.0	Niobrara, Original Hole	
10,075.5	5,701.9	89.5		Perforated Liner	12/11/2013	12,307.0	12,309.0	Niobrara, Original Hole	
10,184.1	5,701.4	91.0		Perforated Liner	12/11/2013	12,334.0	12,336.0	Niobrara, Original Hole	
10,295.9	5,701.6	88.5		Perforated Liner	12/11/2013	12,360.0			
10,394.0	5,702.9	90.7							
10,525.6	5,701.3	88.6							
10,666.0	5,702.0	90.5							
10,773.0	5,702.6	88.2							
10,877.0	5,705.0	88.8							
10,980.0	5,706.6	88.6							
11,115.5	5,705.3	91.3							
11,256.2	5,706.5	88.0							
11,369.1	5,709.6	88.3							
11,472.1	5,712.8	88.6							
11,591.9	5,713.6	91.0							
11,705.7	5,719.3	91.3							
11,846.1	5,707.7	89.7							
11,962.9	5,705.4	91.9							
12,074.1	5,704.3	88.7							
12,180.1	5,706.2	88.7							
12,295.9	5,708.5	88.4							
12,387.5	5,708.4	89.7							

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Lateral/Horizontal - Original Hole, 2/20/2014 1:32:43 PM				Other In Hole					
MD (ftKB)	TV D (ftK B)	n cl (° B)	<div><div>Vertical schematic (actual)</div></div>	Des	OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)
				CFP	4	12/12/2013	1/5/2014	11,378.0	11,380.0
				CFP	4	12/12/2013	1/5/2014	11,533.0	11,535.0
				CFP	4	12/12/2013	1/5/2014	11,703.0	11,705.0
				CFP	4	12/11/2013	1/5/2014	11,850.0	11,852.0
				CFP	4	12/11/2013	1/6/2014	11,978.0	11,980.0
				CFP	4	12/11/2013	1/6/2014	12,146.0	12,148.0
				CFP	4	12/10/2013	1/6/2014	12,293.0	12,295.0

6,312.0	5,719.5	85.1			
6,452.1	5,715.7	85.1			
6,627.3	5,715.1	85.5			
6,813.0	5,712.1	85.8			
6,921.9	5,712.5	85.1			
7,076.1	5,711.5	85.4			
7,230.0	5,710.5	81.3			
7,395.0	5,710.7	85.7			
7,577.8	5,714.5	85.8			
7,690.0	5,719.0	85.1			
7,850.1	5,714.7	85.5			
8,044.0	5,705.2	85.5			
8,163.7	5,704.7	81.3			
8,304.5	5,704.3	81.1			
8,412.1	5,704.2	85.5			
8,522.0	5,703.4	85.7			
8,632.9	5,702.0	81.4			
8,754.3	5,700.5	85.8			
8,894.7	5,699.5	85.8			
9,002.0	5,699.7	85.5			
9,113.8	5,702.4	85.5			
9,224.1	5,705.3	85.4			
9,344.8	5,707.5	85.5			
9,485.2	5,705.5	81.5			
9,594.2	5,704.0	81.5			
9,704.1	5,702.9	85.7			
9,815.9	5,702.7	81.3			
9,935.0	5,702.5	85.2			
10,075.5	5,701.9	85.5			
10,184.1	5,701.4	81.5			
10,295.9	5,701.5	85.5			
10,394.0	5,702.9	85.7			
10,525.6	5,701.3	85.5			
10,666.0	5,702.0	85.5			
10,773.0	5,702.5	85.2			
10,877.0	5,705.0	85.8			
10,980.0	5,705.5	85.5			
11,115.5	5,705.3	81.2			
11,256.2	5,706.5	85.5			
11,369.1	5,709.5	85.5			
11,472.1	5,712.5	85.5			
11,591.9	5,713.5	81.5			
11,705.7	5,710.9	81.3			
11,846.1	5,707.7	85.7			
11,962.9	5,705.4	81.5			
12,074.1	5,704.3	85.7			
12,180.1	5,706.2	85.7			
12,295.9	5,705.5	85.4			
12,387.5	5,705.4	85.7			