

<div><div><div><div></div><div>WHITING</div></div></div></div> <div>Lease Review All - Frac Summary</div> <div>Well Name: RAZOR 11E-0203A</div>																	
API Number 051233853000			WPC ID 1CO0761009			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO			
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 5,018.60			Ground Elevation (ft) 5,001.80			Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,360.0				
Original Spud Date 3/13/2014		Completion Date 6/20/2014		Asset Group Redtail			Responsible Engineer Andrew Fish			N/S Dist (ft) 2,322.0		N/S Ref FNL		E/W Dist (ft) 855.0		E/W Ref FWL	
Lot		Quarter 1 SW	Quarter 2 NW	Quarter 3	Quarter 4	Section 11	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian				
Lateral/Horizontal - Original Hole, 10/9/2014 1:38:01 PM						Wellbore Sections											
MD (ftKB)	D (ft K B)	n (K B)	c (K B)	l (K B)	Vertical schematic (actual)	Logs	Wellbore Name		Start Date		Size (in)		Act Top (ftKB)		Act Btm (ftKB)		
							Original Hole		1/1/2014		20		16.8		96.8		
							Original Hole		3/13/2014		13 1/2		96.8		1,870.0		
							Original Hole		3/15/2014		8 3/4		1,870.0		6,275.0		
							Original Hole		3/18/2014		6		6,275.0		12,360.0		
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, 1,849.0ftKB																	
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des					
9 5/8		36.00		J-55		16.9		16.9		0.00		Landing Joint					
9 5/8		36.00		J-55		16.9		21.9		5.00		Pup Joint					
9 5/8		36.00		J-55		21.9		1,802.0		1,780.13		Casing Joints					
9 5/8		36.00		J-55		1,802.0		1,803.5		1.50		Float Collar					
9 5/8		36.00		J-55		1,803.5		1,847.5		44.02		Casing Joints					
9 5/8		36.00		J-55		1,847.5		1,849.0		1.50		Float Shoe					
Frac String, 5,179.6ftKB																	
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des					
						12.9		14.9		2.00		Casing Hanger					
4 1/2		15.10		P-110		14.9		46.5		31.54		Casing Joints					
4 1/2		15.10		P-110		46.5		67.0		20.53		Pup Joint					
4 1/2		15.10		P-110		67.0		5,169.6		5,102.57		Casing Joints					
5 1/4						5,169.6		5,179.6		10.00		PBR seal assembly					
Intermediate Csg, 6,259.2ftKB																	
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		Casing Hanger					
7		29.00		L-80		21.8		6,218.2		6,196.40		Casing Joints					
7		29.00		L-80		6,218.2		6,219.7		1.50		Float Collar					
7		29.00		L-80		6,219.7		6,257.7		37.99		Casing Joints					
7		29.00		L-80		6,257.7		6,259.2		1.50		Float Shoe					
Liner, 12,355.0ftKB																	
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des					
4 1/2		11.60		L-80		5,184.6		5,205.3		20.77		ZXP LINER TOP PACKER					
4 1/2		11.60		L-80		5,205.3		5,212.0		6.64		HMC LINER HANGER					
4 1/2		11.60		L-80		5,212.0		5,213.5		1.49		X-OVER					
4 1/2		11.60		L-80		5,213.5		5,218.9		5.46		4.5" 11.6# LTC PUP					
4 1/2		11.60		L-80		5,218.9		12,205.5		6,986.60		4.5" 11.6# LTC CASING					
4 1/2		11.60		L-80		12,205.5		12,217.4		11.83		ALPHA SLEEVE					
4 1/2		11.60		L-80		12,217.4		12,261.5		44.13		4.5" 11.6# LTC CASING					
4 1/2		11.60		L-80		12,261.5		12,263.1		1.58		TYPE II LANDING COLLAR					
4 1/2		11.60		L-80		12,263.1		12,264.0		0.97		SINGLE VALVE FLOAT COLLAR					
4 1/2		11.60		L-80		12,264.0		12,352.5		88.46		4.5" 11.6# LTC CASING					
4 1/2		11.60		L-80		12,352.5		12,355.0		2.51		DOUBLE VALVE FLOAT SHOE					
Cement Stages																	
Des		Pump Start Date		Drill Out Date		Top (ftKB)		Btm (ftKB)		Top Meas Meth							
Conductor Cement		1/1/2014				16.8		96.8		Returns to Surface							
Surface Casing Cement		3/14/2014				16.8		1,849.0									
Intermediate Casing Cement		3/17/2014				16.8		6,259.2		Returns to Surface							
Liner Cement		3/21/2014				5,183.0		12,355.0									
Perforations																	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone									
Perforated Liner		6/4/2014		6,290.0		6,292.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,324.0		6,326.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,348.0		6,350.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,436.0		6,438.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,474.0		6,476.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,501.0		6,503.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,587.0		6,589.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,630.0		6,632.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,645.0		6,647.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,734.0		6,736.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,773.0		6,775.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,800.0		6,802.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,886.0		6,888.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,930.0		6,932.0		Niobrara, Original Hole									
Perforated Liner		6/4/2014		6,949.0		6,951.0		Niobrara, Original Hole									
Perforated Liner		6/3/2014		7,035.0		7,037.0		Niobrara, Original Hole									



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Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 5,018.60		Ground Elevation (ft) 5,001.80		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,360.0		
Original Spud Date 3/13/2014		Completion Date 6/20/2014		Asset Group Redtail			Responsible Engineer Andrew Fish		N/S Dist (ft) 2,322.0		N/S Ref FNL		E/W Dist (ft) 855.0	E/W Ref FWL
Lot		Quarter 1 SW	Quarter 2 NW	Quarter 3	Quarter 4	Section 11	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian	

Lateral/Horizontal - Original Hole, 10/9/2014 1:38:03 PM						Perforations					
MD (ftKB)	D (ft K B)	n (K B)	c (K B)	l (K B)	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
							Perforated Liner	6/3/2014	7,072.0	7,074.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,099.0	7,101.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,186.0	7,188.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,208.0	7,210.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,248.0	7,250.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,334.0	7,336.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,371.0	7,373.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,402.0	7,404.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,470.0	7,472.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,510.0	7,512.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,547.0	7,549.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,633.0	7,635.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,669.0	7,671.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,688.0	7,690.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,790.0	7,792.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,815.0	7,817.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,846.0	7,848.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,931.0	7,933.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,964.0	7,966.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	7,986.0	7,988.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	8,074.0	8,076.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	8,118.0	8,120.0	Niobrara, Original Hole
							Perforated Liner	6/3/2014	8,144.0	8,146.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,232.0	8,234.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,268.0	8,270.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,294.0	8,296.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,374.0	8,376.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,416.0	8,418.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,440.0	8,442.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,534.0	8,536.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,572.0	8,574.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,593.0	8,595.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,674.0	8,676.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,715.0	8,717.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,736.0	8,738.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,826.0	8,828.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,868.0	8,870.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,892.0	8,894.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	8,977.0	8,979.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	9,014.0	9,016.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	9,044.0	9,046.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	9,124.0	9,126.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	9,168.0	9,170.0	Niobrara, Original Hole
							Perforated Liner	6/2/2014	9,190.0	9,192.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,276.0	9,278.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,313.0	9,315.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,344.0	9,346.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,432.0	9,434.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,455.0	9,457.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,489.0	9,491.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,575.0	9,577.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,608.0	9,610.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,630.0	9,632.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,718.0	9,720.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,761.0	9,763.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,784.0	9,786.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,870.0	9,872.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,911.0	9,913.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	9,937.0	9,939.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	10,023.0	10,025.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	10,060.0	10,062.0	Niobrara, Original Hole
							Perforated Liner	6/1/2014	10,087.0	10,089.0	Niobrara, Original Hole
							Perforated Liner	5/31/2014	10,178.0	10,180.0	Niobrara, Original Hole
							Perforated Liner	5/31/2014	10,209.0	10,211.0	Niobrara, Original Hole
							Perforated Liner	5/31/2014	10,230.0	10,232.0	Niobrara, Original Hole
							Perforated Liner	5/31/2014	10,316.0	10,318.0	Niobrara, Original Hole
							Perforated Liner	5/31/2014	10,359.0	10,361.0	Niobrara, Original Hole
							Perforated Liner	5/31/2014	10,386.0	10,388.0	Niobrara, Original Hole
							Perforated Liner	5/31/2014	10,471.0	10,473.0	Niobrara, Original Hole
							Perforated Liner	5/31/2014	10,512.0	10,514.0	Niobrara, Original Hole



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Lateral/Horizontal - Original Hole, 10/9/2014 1:38:05 PM					Perforations								
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						Perforated Liner		5/31/2014	10,535.0	10,537.0	Niobrara, Original Hole		
						Perforated Liner		5/31/2014	10,615.0	10,617.0	Niobrara, Original Hole		
						Perforated Liner		5/31/2014	10,660.0	10,662.0	Niobrara, Original Hole		
						Perforated Liner		5/31/2014	10,688.0	10,690.0	Niobrara, Original Hole		
						Perforated Liner		5/31/2014	10,772.0	10,774.0	Niobrara, Original Hole		
						Perforated Liner		5/31/2014	10,797.0	10,799.0	Niobrara, Original Hole		
						Perforated Liner		5/31/2014	10,834.0	10,836.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	10,922.0	10,924.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	10,948.0	10,950.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	10,974.0	10,976.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,082.0	11,084.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,106.0	11,108.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,130.0	11,132.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,218.0	11,220.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,258.0	11,260.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,282.0	11,284.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,368.0	11,370.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,407.0	11,409.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,432.0	11,434.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,518.0	11,520.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,544.0	11,546.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,581.0	11,583.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,667.0	11,669.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,698.0	11,700.0	Niobrara, Original Hole		
						Perforated Liner		5/30/2014	11,740.0	11,742.0	Niobrara, Original Hole		
						Perforated Liner		5/29/2014	11,806.0	11,808.0	Niobrara, Original Hole		
						Perforated Liner		5/29/2014	11,850.0	11,852.0	Niobrara, Original Hole		
						Perforated Liner		5/29/2014	11,874.0	11,876.0	Niobrara, Original Hole		
						Perforated Liner		5/29/2014	11,958.0	11,960.0	Niobrara, Original Hole		
						Perforated Liner		5/29/2014	11,998.0	12,000.0	Niobrara, Original Hole		
						Perforated Liner		5/29/2014	12,029.0	12,031.0	Niobrara, Original Hole		
						Perforated Liner		4/22/2014	12,105.0	12,107.0	Niobrara, Original Hole		
						Perforated Liner		4/22/2014	12,140.0	12,142.0	Niobrara, Original Hole		
						Perforated Liner		4/22/2014	12,177.0	12,179.0	Niobrara, Original Hole		
Stimulations & Treatments													
Sand Frac on 5/29/2014 08:00													
Comment Treatment End Date:6/04/2014; Number of staged intervals: 40; Total 15% HCl used: 976 bbl; Min frac gradient: 0.83 psi/ft; Number of perfs: 1440; 25365 bbl Total Slickwater Vol.; 68774 bbl VistarFrac Crosslink Gel; 16975 bbl Linear Gel.										Min Top De...	Max Btm De...	Frac Length (ft)	
										6,290.0	12,179.0	6,101.00	
Total Clean Volu...		Vol Slurry Tot (bbl)	Proppant Desig...		Proppant Frm (lb)	P Max (psi)	Avg Treat...	Avg Treat...	Max Tre...	Frac Gr...			
112090.00		117652.09	4,939,025.3		5,166,310.8	8,388.0	4,825.0	51.20	57.80	0.99			
Stim/Treat Fluids													
Fluid Name													
Vistar XL Gel; Linear Gel; 15% HCl													
Stim/Treat Stages													
Interval 1													
Stg #	Start Date	Top (ftKB)	Btm (ftKB)		Vol Clean...	Vol Slurry...	Comment						
1	5/29/2014	12,105.0	12,179.0		4167.10	4179.40	Vistar XL Gel:548 bbl; Linear Gel:1652 bbl; Slickwater:1919 bbl; 15% HCl:48bbl						
Stim/Treat Additives													
Stg #	Add	Type			Amount		Units		Sand Size				
1	Proppant	16/30WS			4,652.9		lb		16/30				
1	Proppant	40/70/WS			6,772.1		lb		40/70				
Interval 2													
Stg #	Start Date	Top (ftKB)	Btm (ftKB)		Vol Clean...	Vol Slurry...	Comment						
2	5/29/2014	11,958.0	12,031.0		2864.30	2953.26	Vistar XL Gel:1605 bbl; Linear Gel:479 bbl; Slickwater:756 bbl; 15% HCl:24bbl						
Stim/Treat Additives													
Stg #	Add	Type			Amount		Units		Sand Size				
2	Proppant	16/30WS			77,160.2		lb		16/30				
2	Proppant	40/70/WS			5,465.6		lb		40/70				
Interval 3													
Stg #	Start Date	Top (ftKB)	Btm (ftKB)		Vol Clean...	Vol Slurry...	Comment						
3	5/29/2014	11,806.0	11,876.0		2757.90	2860.01	Vistar XL Gel:1561 bbl; Linear Gel:483 bbl; Slickwater:692 bbl; 15% HCl:22bbl						
Stim/Treat Additives													
Stg #	Add	Type			Amount		Units		Sand Size				
3	Proppant	16/30WS			89,130.4		lb		16/30				
3	Proppant	40/70/WS			5,713.2		lb		40/70				
Interval 4													
Stg #	Start Date	Top (ftKB)	Btm (ftKB)		Vol Clean...	Vol Slurry...	Comment						
4	5/29/2014	11,667.0	11,742.0		2942.30	3093.39	Vistar XL Gel:1783 bbl; Linear Gel:510 bbl; Slickwater:627 bbl; 15% HCl:22bbl						



Lease Review All - Frac Summary

Well Name: RAZOR 11E-0203A


API Number 051233853000			WPC ID 1CO0761009			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO		
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 5,018.60		Ground Elevation (ft) 5,001.80		Casing Flange Elevation (ft)			Tubing Head Elevation (ft)		Total Depth (ftKB) 12,360.0		
Original Spud Date 3/13/2014			Completion Date 6/20/2014		Asset Group Redtail			Responsible Engineer Andrew Fish			N/S Dist (ft) 2,322.0		N/S Ref FNL	E/W Dist (ft) 855.0	E/W Ref FWL	
Lot		Quarter 1 SW	Quarter 2 NW	Quarter 3	Quarter 4	Section 11		Section Suffix	Section Type		Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian	
Lateral/Horizontal - Original Hole, 10/9/2014 1:38:07 PM							Stim/Treat Additives									
MD (ftKB)	D (ft K B)	n (K B)	c (K B)	l (K B)	Vertical schematic (actual)	Logs	Stg #		Add		Type		Amount		Units	Sand Size
							4	Proppant	16/30WS		136,354.7		lb	16/30		
							4	Proppant			40/70/WS		3,980.1		lb	40/70
21.7	21.7	12					Interval 5									
66.9	61.0	12				Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
						5	5/30/2014	11,518.0	11,583.0	2914.50	3068.33	Vistar XL Gel:1801 bbl; Linear Gel:492 bbl; Slickwater:597 bbl; 15% HCl:24bbl				
1,849.1	1,862.7	64				Stim/Treat Additives										
3,393.7	3,385.0	12				Stg #	Add		Type		Amount		Units	Sand Size		
						5	Proppant		16/30WS		138,892.7		lb	16/30		
5,095.5	5,082.9	12				5	Proppant		40/70/WS		3,991.0		lb	40/70		
5,183.1	5,170.4	62				Interval 6										
5,218.8	5,206.0	12				Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
5,985.6	5,965.0	127				6	5/30/2014	11,368.0	11,434.0	2912.30	3060.81	Vistar XL Gel:1795 bbl; Linear Gel:517 bbl; Slickwater:576 bbl; 15% HCl:24bbl				
6,257.5	6,244.8	64				Stim/Treat Additives										
6,324.1	6,311.4	61				Stg #	Add		Type		Amount		Units	Sand Size		
						6	Proppant		16/30WS		134,015.2		lb	16/30		
6,438.0	6,425.3	62				6	Proppant		40/70/WS		3,930.3		lb	40/70		
6,586.9	6,574.2	61				Interval 7										
6,647.0	6,634.3	61				Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
6,799.9	6,787.2	64				7	5/30/2014	11,218.0	11,284.0	2952.40	3104.04	Vistar XL Gel:1803 bbl; Linear Gel:532 bbl; Slickwater:592 bbl; 15% HCl:25bbl				
6,932.1	6,919.4	61				Stim/Treat Additives										
7,071.9	7,059.2	61				Stg #	Add		Type		Amount		Units	Sand Size		
						7	Proppant		16/30WS		137,049.0		lb	16/30		
7,188.0	7,175.3	62				7	Proppant		40/70/WS		3,799.5		lb	40/70		
7,334.0	7,321.3	61				Interval 8										
7,403.9	7,391.2	64				Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
7,546.9	7,534.2	61				8	5/30/2014	11,082.0	11,132.0	2971.50	3110.66	Vistar XL Gel:1790 bbl; Linear Gel:500 bbl; Slickwater:657 bbl; 15% HCl:25bbl				
7,670.9	7,658.2	61				Stim/Treat Additives										
7,815.0	7,802.3	64				Stg #	Add		Type		Amount		Units	Sand Size		
						8	Proppant		16/30WS		126,640.6		lb	16/30		
7,933.1	7,920.4	61				8	Proppant		40/70/WS		2,620.7		lb	40/70		
8,074.1	8,061.4	61				Interval 9										
8,146.0	8,133.3	61				Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
8,294.0	8,281.3	61				9	5/30/2014	10,922.0	10,976.0	3407.70	3562.33	Vistar XL Gel:2149 bbl; Linear Gel:510 bbl; Slickwater:722 bbl; 15% HCl:26bbl				
8,418.0	8,405.3	64				Stim/Treat Additives										
8,571.9	8,559.2	64				Stg #	Add		Type		Amount		Units	Sand Size		
						9	Proppant		16/30WS		138,920.9		lb	16/30		
8,675.9	8,663.2	61				9	Proppant		40/70/WS		4,710.4		lb	40/70		
8,826.1	8,813.4	61				Interval 10										
8,894.0	8,881.3	61				Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
9,044.0	9,031.3	64				10	5/30/2014	10,772.0	10,836.0	2899.60	3043.74	Vistar XL Gel:1782 bbl; Linear Gel:510 bbl; Slickwater:583 bbl; 15% HCl:25bbl				
9,169.9	9,157.2	61				Stim/Treat Additives										
9,313.0	9,300.3	61				Stg #	Add		Type		Amount		Units	Sand Size		
						10	Proppant		16/30WS		130,684.4		lb	16/30		
9,434.1	9,421.4	61				10	Proppant		40/70/WS		3,203.1		lb	40/70		
9,575.1	9,562.4	61				Interval 11										
9,631.9	9,619.2	61				Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
9,784.1	9,771.4	61				11	5/31/2014	10,615.0	10,690.0	2873.60	2996.70	Vistar XL Gel:1748 bbl; Linear Gel:499 bbl; Slickwater:601 bbl; 15% HCl:27bbl				
9,913.1	9,900.4	61				Stim/Treat Additives										
10,060.0	10,047.3	64				Stg #	Add		Type		Amount		Units	Sand Size		
						11	Proppant		16/30WS		110,727.7		lb	16/30		
10,180.1	10,167.4	61				11	Proppant		40/70/WS		3,612.6		lb	40/70		
10,315.9	10,303.2	61				Interval 12										
10,388.1	10,375.4	61				Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
10,535.1	10,522.4	61				12	5/31/2014	10,471.0	10,537.0	2963.10	3123.22	Vistar XL Gel:1840 bbl; Linear Gel:510 bbl; Slickwater:590 bbl; 15% HCl:23bbl				
10,662.1	10,649.4	61				Stim/Treat Additives										
10,796.9	10,784.2	64				Stg #	Add		Type		Amount		Units	Sand Size		
						12	Proppant		16/30WS		144,648.2		lb	16/30		
10,923.9	10,911.2	64				12	Proppant		40/70/WS		4,079.7		lb	40/70		
11,082.0	11,069.3	61				Interval 13										
11,131.9	11,119.2	61				Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
11,282.2	11,269.5	61				13	5/31/2014	10,316.0	10,388.0	2889.50	3038.88	Vistar XL Gel:1784 bbl; Linear Gel:502 bbl; Slickwater:581 bbl; 15% HCl:23bbl				
11,409.1	11,396.4	64				Stim/Treat Additives										
11,544.0	11,531.3	61				Stg #	Add		Type		Amount		Units	Sand Size		
						13	Proppant		16/30WS		134,150.7		lb	16/30		
11,669.0	11,656.3	61				13	Proppant		40/70/WS		4,604.5		lb	40/70		
11,806.1	11,793.4	61				Interval 14										
11,876.0	11,863.3	61				Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
12,028.9	12,016.2	61				14	5/31/2014	10,178.0	10,232.0	2905.10	3056.00	Vistar XL Gel:1814 bbl; Linear Gel:509 bbl; Slickwater:557 bbl; 15% HCl:25bbl				
12,142.1	12,129.4	61				Stim/Treat Additives										
12,261.5	12,248.8	61				Stg #	Add		Type		Amount		Units	Sand Size		
						14	Proppant		16/30WS		136,606.5		lb	16/30		
12,359.9	12,347.2	61														



Lease Review All - Frac Summary


Well Name: RAZOR 11E-0203A

API Number 051233853000		WPC ID 1CO0761009		Well Permit Number		Field Name DJ Horizontal Niobrara			County Weld		State CO	
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 5,018.60		Ground Elevation (ft) 5,001.80		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,360.0	
Original Spud Date 3/13/2014		Completion Date 6/20/2014		Asset Group Redtail		Responsible Engineer Andrew Fish		N/S Dist (ft) 2,322.0		N/S Ref FNL	E/W Dist (ft) 855.0	E/W Ref FWL
Lot	Quarter 1 SW	Quarter 2 NW	Quarter 3	Quarter 4	Section 11	Section Suffix	Section Type	Township 10 N	Township N/S Dir	Range 58 W	Range E/W Dir	Meridian

Lateral/Horizontal - Original Hole, 10/9/2014 1:38:09 PM					Stim/Treat Additives						
MD (ftKB)	D (ft K B)	n (K B)	Vertical schematic (actual)	Logs	Stg #	Add		Type	Amount	Units	Sand Size
					14	Proppant		40/70/WS	3,551.9	lb	40/70
Interval 15											
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
21.7	21.7	12			15	5/31/2014	10,023.0	10,089.0	2761.90	2911.39	Vistar XL Gel:1792 bbl; Linear Gel:331 bbl; Slickwater:615 bbl; 15% HCl:24bbl
66.9	67.0	12									
1,849.1	1,849.7	44									
3,393.7	3,393.0	100									
5,095.5	5,095.9	124									
5,183.1	5,176.4	124									
5,218.8	5,230.0	122									
5,985.6	5,985.0	167									
6,257.5	6,258.1	164									
6,324.1	6,309.4	161									
6,438.0	6,438.4	164									
6,586.9	6,591.2	169									
6,647.0	6,652.3	167									
6,799.9	6,814.3	164									
6,932.1	6,936.4	172									
7,071.9	7,082.1	169									
7,188.0	7,207.6	167									
7,334.0	7,349.1	162									
7,403.9	7,408.3	162									
7,546.9	7,551.4	161									
7,670.9	7,675.4	167									
7,815.0	7,819.4	161									
7,933.1	7,937.7	167									
8,074.1	8,078.9	163									
8,146.0	8,150.0	161									
8,294.0	8,298.1	161									
8,418.0	8,423.0	161									
8,571.9	8,576.4	164									
8,675.9	8,680.1	164									
8,826.1	8,830.4	164									
8,894.0	8,898.7	164									
9,044.0	9,048.9	164									
9,169.9	9,174.9	161									
9,313.0	9,318.3	162									
9,434.1	9,439.4	162									
9,575.1	9,580.3	163									
9,631.9	9,637.0	162									
9,784.1	9,789.3	164									
9,913.1	9,918.4	162									
10,060.0	10,065.9	163									
10,180.1	10,185.3	162									
10,315.9	10,321.4	162									
10,388.1	10,393.0	162									
10,535.1	10,540.0	161									
10,662.1	10,667.7	162									
10,796.9	10,801.4	164									
10,923.9	10,928.4	164									
11,082.0	11,087.9	164									
11,131.9	11,136.4	164									
11,282.2	11,287.1	164									
11,409.1	11,414.4	164									
11,544.0	11,549.4	162									
11,669.0	11,674.0	162									
11,806.1	11,811.7	164									
11,876.0	11,881.4	164									
12,028.9	12,033.0	162									
12,142.1	12,147.4	164									
12,261.5	12,266.9	162									
12,359.9	12,364.1	161									
					Stim/Treat Additives						
					Stg #	Add		Type	Amount	Units	Sand Size
					15	Proppant		16/30WS	135,110.7	lb	16/30
					15	Proppant		40/70/WS	3,740.3	lb	40/70
Interval 16											
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
					16	6/1/2014	9,870.0	9,939.0	2784.20	2947.38	Vistar XL Gel:1790 bbl; Linear Gel:345 bbl; Slickwater:623 bbl; 15% HCl:25bbl
Stim/Treat Additives											
					Stg #	Add		Type	Amount	Units	Sand Size
					16	Proppant		16/30WS	146,716.0	lb	16/30
					16	Proppant		40/70/WS	4,850.5	lb	40/70
Interval 17											
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
					17	6/1/2014	9,718.0	9,786.0	2832.50	2981.34	Vistar XL Gel:1798 bbl; Linear Gel:362 bbl; Slickwater:648 bbl; 15% HCl:25bbl
Stim/Treat Additives											
					Stg #	Add		Type	Amount	Units	Sand Size
					17	Proppant		16/30WS	132,774.2	lb	16/30
					17	Proppant		40/70/WS	5,471.8	lb	40/70
Interval 18											
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
					18	6/1/2014	9,575.0	9,632.0	3010.80	3162.43	Vistar XL Gel:1976 bbl; Linear Gel:343 bbl; Slickwater:581 bbl; 15% HCl:110bbl
Stim/Treat Additives											
					Stg #	Add		Type	Amount	Units	Sand Size
					18	Proppant		16/30WS	136,131.1	lb	16/30
					18	Proppant		40/70/WS	4,710.4	lb	40/70
Interval 19											
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
					19	6/1/2014	9,432.0	9,491.0	2685.60	2831.89	Vistar XL Gel:1747 bbl; Linear Gel:350 bbl; Slickwater:565 bbl; 15% HCl:24bbl
Stim/Treat Additives											
					Stg #	Add		Type	Amount	Units	Sand Size
					19	Proppant		16/30WS	131,671.7	lb	16/30
					19	Proppant		40/70/WS	4,209.0	lb	40/70
Interval 20											
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
					20	6/1/2014	9,276.0	9,346.0	2791.70	2942.07	Vistar XL Gel:1836 bbl; Linear Gel:348 bbl; Slickwater:584 bbl; 15% HCl:24bbl
Stim/Treat Additives											
					Stg #	Add		Type	Amount	Units	Sand Size
					20	Proppant		16/30WS	134,694.4	lb	16/30
					20	Proppant		40/70/WS	4,972.0	lb	40/70
Interval 21											
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
					21	6/1/2014	9,124.0	9,192.0	2738.20	2888.06	Vistar XL Gel:1781 bbl; Linear Gel:350 bbl; Slickwater:583 bbl; 15% HCl:25bbl
Stim/Treat Additives											
					Stg #	Add		Type	Amount	Units	Sand Size
					21	Proppant		16/30WS	134,543.9	lb	16/30
					21	Proppant		40/70/WS	4,651.2	lb	40/70
Interval 22											
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
					22	6/2/2014	8,977.0	9,046.0	2707.20	2848.73	Vistar XL Gel:1780 bbl; Linear Gel:338 bbl; Slickwater:566 bbl; 15% HCl:23bbl
Stim/Treat Additives											
					Stg #	Add		Type	Amount	Units	Sand Size
					22	Proppant		16/30WS	128,045.1	lb	16/30
					22	Proppant		40/70/WS	3,414.8	lb	40/70
Interval 23											
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
					23	6/2/2014	8,826.0	8,894.0	2799.10	2945.78	Vistar XL Gel:1767 bbl; Linear Gel:344 bbl; Slickwater:664 bbl; 15% HCl:24bbl
Stim/Treat Additives											
					Stg #	Add		Type	Amount	Units	Sand Size
					23	Proppant		16/30WS	130,742.7	lb	16/30
					23	Proppant		40/70/WS	5,499.9	lb	40/70
Interval 24											
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
					24	6/2/2014	8,674.0	8,738.0	2801.00	2954.01	Vistar XL Gel:1825 bbl; Linear Gel:347 bbl; Slickwater:604 bbl; 15% HCl:24bbl
Stim/Treat Additives											
					Stg #	Add		Type	Amount	Units	Sand Size
					24	Proppant		16/30WS	137,073.1	lb	16/30
					24	Proppant		40/70/WS	5,053.0	lb	40/70

Report Printed: 10/9/2014



Lateral/Horizontal - Original Hole, 10/9/2014 1:38:15 PM					Other Strings						
MD (ftKB)	D (ftK B)	n c l ( Vertical schematic (actual)	Logs	Set Depth (ftKB)	Comment			Run Date	Pull Date	
					Item Des		OD (in)	Len (ft)		Top (ftKB)	Btm (ftKB)

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