



Completion Report Info - CR and Frac Summary Report

Well Name: RAZOR 29F-2007

API Number 051234041100	WPC ID 1CO0761228	Well Permit Number	Field Name DJ Horizontal Niobrara	County Weld	State CO
Well Configuration Type Lateral/Horizontal	Orig KB Elev (ft) 4,837.00	Ground Elevation (ft) 4,816.00	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB) 13,832.0
Original Spud Date 8/1/2015	Completion Date 10/2/2015	Asset Group Redtail	Responsible Engineer Adrian Reece	N/S Dist (ft) 2,228.0	N/S Ref FNL
				E/W Dist (ft) 2,041.0	E/W Ref FWL
Lot	Quarter 1 SE	Quarter 2 NW	Quarter 3	Quarter 4	Section 29
			Section Suffix	Section Type	Township 10
					Township N/S Dir N
					Range 58
					Range E/W Dir W
					Meridian

Lateral/Horizontal - Original Hole, 12/22/2015 10:48:26 AM		Rigs							
MD (ftKB) 27.9 101.0 1,573.5 4,951.8 5,131.9 5,202.1 5,219.8 6,203.4 6,268.0 6,518.0 6,686.0 6,856.0 7,105.0 7,273.0 7,440.9 7,610.9 7,783.1 8,027.9 8,198.2 8,448.2 8,616.1 8,786.1 9,035.1 9,207.0 9,373.0 9,623.0 9,791.0 9,959.0 10,128.0 10,376.0 10,545.9 10,713.9 10,883.9 11,132.9 11,300.9 11,471.1 11,721.1 11,891.1 12,059.1 12,308.1 12,478.0 12,728.0 12,898.0 13,064.0 13,315.0 13,451.1 13,586.9 13,780.2	Vertical schematic (actual)		Contractor Unit Drilling		Rig Number 406		Rig Type Drilling	Rig Start Date 7/28/2015	Rig Release Date 8/9/2015
			Date 8/7/2015	Type Drilling	Subtype TD Date		TD (ft) 13,832.00		
			Wellbore Sections						
		Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date	End Date	
		Conductor	Original Hole	24	21.0	101.0	7/9/2015	7/9/2015	
		Surface	Original Hole	13 1/2	101.0	1,585.0	8/1/2015	8/1/2015	
		Intermediate	Original Hole	8 3/4	1,585.0	6,255.0	8/2/2015	8/3/2015	
		Lateral	Original Hole	6 1/8	6,255.0	13,832.0	8/4/2015	8/7/2015	
		Casing							
		Conductor Pipe, 101.0ftKB							
		Comment					Run Date 7/9/2015	Pull Date	
		OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des	
		16	65.00	H-40	21.0	101.0	80.00	Casing Joints	
		Surface Csg, 1,573.4ftKB							
		Comment					Run Date 8/1/2015	Pull Date	
		One Basket on Top Jt							
		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	23.0	2.00	wellhead	
		9 5/8	36.00	J-55	23.0	28.0	5.00	pup joint	
		9 5/8	36.00	J-55	28.0	1,526.3	1,498.34	Casing Joints	
		9 5/8	36.00	J-55	1,526.3	1,527.8	1.50	Float Collar	
		9 5/8	36.00	J-55	1,527.8	1,571.9	44.08	Casing Joints	
		9 5/8	36.00	J-55	1,571.9	1,573.4	1.50	Float Shoe	
		Frac String, 5,136.2ftKB							
		Comment					Run Date 8/20/2015	Pull Date 10/17/2015	
		OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des	
		7			20.9	22.8	1.90	Casing Hanger	
		4 1/2	11.60	HCP-110	22.8	62.4	39.55	Casing Joints	
		4 1/2	11.60	HCP-110	62.4	64.4	2.04	Casing Joints	
		4 1/2	11.60	HCP-110	64.4	5,116.7	5,052.24	Casing Joints	
		4 1/2	11.60	HCP-110	5,116.7	5,121.7	5.02	Casing Joints	
		5			5,121.7	5,136.2	14.52	Seal Assembly	
		Intermediate Csg, 6,242.9ftKB							
		Comment					Run Date 8/4/2015	Pull Date	
		43 Bowspring Centralizer's, 24 solid Turbolizers							
		OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des	
		7	29.00	L-80	21.0	21.0	0.00	Landing Joint	
		7	29.00		21.0	22.0	1.00	Casing Hanger	
		7	29.00	HCL-80	22.0	25.4	3.40	pup joint	
		7	29.00	HCL-80	25.4	6,202.0	6,176.63	Casing Joints	
		7	29.00	HCL-80	6,202.0	6,203.5	1.50	Float Collar	
		7	29.00	HCL-80	6,203.5	6,241.4	37.88	Casing Joints	
		7	29.00	HCL-80	6,241.4	6,242.9	1.50	Float Shoe	
		Liner, 13,824.0ftKB							
		Comment					Run Date 8/8/2015	Pull Date	
		110 stand off bands							
		OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des	
		5.81	11.60	P-110	5,116.1	5,132.4	16.34	WFT PBR / TIEBACK SLEEVE	
		5	11.60	P-110	5,132.4	5,135.8	3.40	WFT TSP IINER TOP PACKER	
		15/16							
		5	11.60	P-110	5,135.8	5,141.5	5.70	WFT CTH Hyd Set Liner Hanger	
		15/16							
		5 9/16	11.60	P-110	5,141.5	5,142.2	0.72	"5"" VAM X 4 1/2" BTC XO"	
		4 1/2	11.60	HCP-110	5,142.2	13,737.3	8,595.04	Casing Joints	
		5 3/4	11.60	P-110	13,737.3	13,738.2	0.90	Tartan sub	
		4 1/2	11.60	HCP-110	13,738.2	13,778.5	40.33	Casing Joints	
		5	11.60	P-110	13,778.5	13,780.0	1.56	Landing collar	
		5	11.60	P-110	13,780.0	13,782.1	2.05	Float Collar	
		4 1/2	11.60	HCP-110	13,782.1	13,822.4	40.35	Casing Joints	
		5	11.60	P-110	13,822.4	13,824.0	1.56	Float Shoe	
		Cement							
		Description	Pump Start Date	Top (ftKB)	Btm (ftKB)	Top Meas Meth	MD Tagged (ft...)		
		Conductor Cement	7/9/2015	21.0	101.0	Returns to Surface			
		Description	Pump Start Date	Top (ftKB)	Btm (ftKB)	Top Meas Meth	MD Tagged (ft...)		
		Surface Casing Cement	8/1/2015	21.0	1,573.4	Returns to Surface			
		Wellbore	Fluid Type	Amount (sacks)	Class	Est Top (ftKB)	Est Btm (ftKB)	Vol Pumpe...	
		Original Hole	Surface Cement	675	Type 3	1,573.4	21.0	168.0	
		Description	Pump Start Date	Top (ftKB)	Btm (ftKB)	Top Meas Meth	MD Tagged (ft...)		
		Intermediate Casing Cement	8/4/2015	21.0	6,242.9	Returns to Surface			
		Wellbore	Fluid Type	Amount (sacks)	Class	Est Top (ftKB)	Est Btm (ftKB)	Vol Pumpe...	
		Original Hole	Tail Cement	213	50:50 Poz G	4,222.4	6,242.9	55.8	
		Wellbore	Fluid Type	Amount (sacks)	Class	Est Top (ftKB)	Est Btm (ftKB)	Vol Pumpe...	
		Original Hole	Lead Cement	366	20:80 Poz...	21.0	4,222.4	144.1	
		Description	Pump Start Date	Top (ftKB)	Btm (ftKB)	Top Meas Meth	MD Tagged (ft...)		
		Liner Cement	8/8/2015	5,132.0	13,824.0	Returns to Surface			
		Wellbore	Fluid Type	Amount (sacks)	Class	Est Top (ftKB)	Est Btm (ftKB)	Vol Pumpe...	
		Original Hole	Displacement			5,132.0	13,824.0	166.7	
		Wellbore	Fluid Type	Amount (sacks)	Class	Est Top (ftKB)	Est Btm (ftKB)	Vol Pumpe...	
		Original Hole	Production Cement	785	50:50 Poz...	13,824.0	5,132.0	169.2	



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Original Spud Date 8/1/2015	Completion Date 10/2/2015	Asset Group Redtail	Responsible Engineer Adrian Reece	N/S Dist (ft) 2,228.0	N/S Ref FNL
				E/W Dist (ft) 2,041.0	E/W Ref FWL
Lot	Quarter 1 SE	Quarter 2 NW	Quarter 3	Quarter 4	Section 29
			Section Suffix	Section Type	Township 10
					Township N/S Dir N
					Range 58
					Range E/W Dir W
					Meridian

Lateral/Horizontal - Original Hole, 12/22/2015 10:48:26 AM						Shot Dens (shots/ft)	Calcu ated Shot Total
MD (ftKB)	Vertical schematic (actual)	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Linked Zone	
		Perforated Liner	10/2/2015	6,266.0	6,268.0	Niobrara, Original Hole	6.0 13
27.9		Perforated Liner	10/2/2015	6,350.0	6,352.0	Niobrara, Original Hole	6.0 13
101.0	Pierre (final)	Perforated Liner	10/2/2015	6,434.0	6,436.0	Niobrara, Original Hole	6.0 13
1,573.5	Hygiene (fi...	Perforated Liner	10/2/2015	6,521.0	6,523.0	Niobrara, Original Hole	6.0 13
4,951.8		Perforated Liner	10/2/2015	6,602.0	6,604.0	Niobrara, Original Hole	6.0 13
5,131.9		Perforated Liner	10/2/2015	6,686.0	6,688.0	Niobrara, Original Hole	6.0 13
5,202.1		Perforated Liner	10/2/2015	6,770.0	6,772.0	Niobrara, Original Hole	6.0 13
5,219.8	Niobrara (fi...	Perforated Liner	10/2/2015	6,854.0	6,856.0	Niobrara, Original Hole	6.0 13
6,203.4		Perforated Liner	10/2/2015	6,937.0	6,939.0	Niobrara, Original Hole	6.0 13
6,268.0		Perforated Liner	10/2/2015	7,021.0	7,023.0	Niobrara, Original Hole	6.0 13
6,518.0		Perforated Liner	10/2/2015	7,105.0	7,107.0	Niobrara, Original Hole	6.0 13
6,686.0		Perforated Liner	10/2/2015	7,195.0	7,197.0	Niobrara, Original Hole	6.0 13
6,856.0		Perforated Liner	10/2/2015	7,275.0	7,277.0	Niobrara, Original Hole	6.0 13
7,105.0		Perforated Liner	10/2/2015	7,357.0	7,359.0	Niobrara, Original Hole	6.0 13
7,273.0		Perforated Liner	10/2/2015	7,441.0	7,443.0	Niobrara, Original Hole	6.0 13
7,440.9		Perforated Liner	10/1/2015	7,525.0	7,527.0	Niobrara, Original Hole	6.0 13
7,610.9		Perforated Liner	10/1/2015	7,609.0	7,611.0	Niobrara, Original Hole	6.0 13
7,783.1		Perforated Liner	10/1/2015	7,693.0	7,695.0	Niobrara, Original Hole	6.0 13
8,027.9		Perforated Liner	10/1/2015	7,781.0	7,783.0	Niobrara, Original Hole	6.0 13
8,198.2		Perforated Liner	10/1/2015	7,864.0	7,866.0	Niobrara, Original Hole	6.0 13
8,448.2		Perforated Liner	10/1/2015	7,944.0	7,946.0	Niobrara, Original Hole	6.0 13
8,616.1		Perforated Liner	10/1/2015	8,028.0	8,030.0	Niobrara, Original Hole	6.0 13
8,786.1		Perforated Liner	10/1/2015	8,112.0	8,114.0	Niobrara, Original Hole	6.0 13
9,035.1		Perforated Liner	10/1/2015	8,196.0	8,198.0	Niobrara, Original Hole	6.0 13
9,207.0		Perforated Liner	10/1/2015	8,280.0	8,282.0	Niobrara, Original Hole	6.0 13
9,373.0		Perforated Liner	10/1/2015	8,364.0	8,366.0	Niobrara, Original Hole	6.0 13
9,623.0		Perforated Liner	10/1/2015	8,448.0	8,450.0	Niobrara, Original Hole	6.0 13
9,791.0		Perforated Liner	10/1/2015	8,535.0	8,537.0	Niobrara, Original Hole	6.0 13
9,959.0		Perforated Liner	10/1/2015	8,616.0	8,618.0	Niobrara, Original Hole	6.0 13
10,128.0		Perforated Liner	10/1/2015	8,700.0	8,702.0	Niobrara, Original Hole	6.0 13
10,376.0		Perforated Liner	10/1/2015	8,784.0	8,786.0	Niobrara, Original Hole	6.0 13
10,545.9		Perforated Liner	10/1/2015	8,868.0	8,870.0	Niobrara, Original Hole	6.0 13
10,713.9		Perforated Liner	10/1/2015	8,952.0	8,954.0	Niobrara, Original Hole	6.0 13
10,883.9		Perforated Liner	10/1/2015	9,035.0	9,037.0	Niobrara, Original Hole	6.0 13
11,132.9		Perforated Liner	10/1/2015	9,115.0	9,117.0	Niobrara, Original Hole	6.0 13
11,300.9		Perforated Liner	10/1/2015	9,207.0	9,209.0	Niobrara, Original Hole	6.0 13
11,471.1		Perforated Liner	10/1/2015	9,287.0	9,289.0	Niobrara, Original Hole	6.0 13
11,721.1		Perforated Liner	10/1/2015	9,371.0	9,373.0	Niobrara, Original Hole	6.0 13
11,891.1		Perforated Liner	10/1/2015	9,455.0	9,457.0	Niobrara, Original Hole	6.0 13
12,059.1		Perforated Liner	10/1/2015	9,539.0	9,541.0	Niobrara, Original Hole	6.0 13
12,308.1		Perforated Liner	10/1/2015				
12,478.0		Perforated Liner	10/1/2015				
12,728.0		Perforated Liner	10/1/2015				
12,898.0		Perforated Liner	10/1/2015				
13,064.0		Perforated Liner	10/1/2015				
13,315.0		Perforated Liner	10/1/2015				
13,451.1		Perforated Liner	10/1/2015				
13,566.9		Perforated Liner	10/1/2015				
13,780.2		Perforated Liner	9/30/2015				



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Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,837.00			Ground Elevation (ft) 4,816.00			Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 13,832.0			
Original Spud Date 8/1/2015			Completion Date 10/2/2015		Asset Group Redtail			Responsible Engineer Adrian Reece			N/S Dist (ft) 2,228.0		N/S Ref FNL		E/W Dist (ft) 2,041.0		E/W Ref FWL	
Lot		Quarter 1 SE	Quarter 2 NW	Quarter 3	Quarter 4	Section 29	Section Suffix	Section Type	Township 10		Township N/S Dir N		Range 58		Range E/W Dir W		Meridian	
Lateral/Horizontal - Original Hole, 12/22/2015 10:48:26 AM																		
MD (ftKB)		Vertical schematic (actual)					Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Linked Zone				Shot Dens (shots/ft)	Calcu lated Shot Total		
27.9							Perforated Liner	9/30/2015	9,623.0	9,625.0	Niobrara, Original Hole				6.0	13		
101.0							Perforated Liner	9/30/2015	9,704.0	9,706.0	Niobrara, Original Hole				6.0	13		
1,573.5							Perforated Liner	9/30/2015	9,799.0	9,801.0	Niobrara, Original Hole				6.0	13		
4,951.8							Perforated Liner	9/30/2015	9,879.0	9,881.0	Niobrara, Original Hole				6.0	13		
5,131.9							Perforated Liner	9/30/2015	9,959.0	9,961.0	Niobrara, Original Hole				6.0	13		
5,202.1							Perforated Liner	9/30/2015	10,043.0	10,045.0	Niobrara, Original Hole				6.0	13		
5,219.8							Perforated Liner	9/30/2015	10,126.0	10,128.0	Niobrara, Original Hole				6.0	13		
6,203.4							Perforated Liner	9/30/2015	10,210.0	10,212.0	Niobrara, Original Hole				6.0	13		
6,268.0							Perforated Liner	9/30/2015	10,294.0	10,296.0	Niobrara, Original Hole				6.0	13		
6,518.0							Perforated Liner	9/30/2015	10,376.0	10,378.0	Niobrara, Original Hole				6.0	13		
6,686.0							Perforated Liner	9/30/2015	10,457.0	10,459.0	Niobrara, Original Hole				6.0	13		
7,105.0							Perforated Liner	9/30/2015	10,553.0	10,555.0	Niobrara, Original Hole				6.0	13		
7,273.0							Perforated Liner	9/30/2015	10,635.0	10,637.0	Niobrara, Original Hole				6.0	13		
7,440.9							Perforated Liner	9/30/2015	10,714.0	10,716.0	Niobrara, Original Hole				6.0	13		
7,610.9							Perforated Liner	9/30/2015	10,798.0	10,800.0	Niobrara, Original Hole				6.0	13		
7,783.1							Perforated Liner	9/30/2015	10,882.0	10,884.0	Niobrara, Original Hole				6.0	13		
8,027.9							Perforated Liner	9/30/2015	10,966.0	10,968.0	Niobrara, Original Hole				6.0	13		
8,198.2							Perforated Liner	9/29/2015	11,050.0	11,052.0	Niobrara, Original Hole				6.0	13		
8,448.2							Perforated Liner	9/29/2015	11,133.0	11,135.0	Niobrara, Original Hole				6.0	13		
8,616.1							Perforated Liner	9/29/2015	11,217.0	11,219.0	Niobrara, Original Hole				6.0	13		
8,786.1							Perforated Liner	9/29/2015	11,300.0	11,302.0	Niobrara, Original Hole				6.0	13		
9,035.1							Perforated Liner	9/29/2015	11,380.0	11,382.0	Niobrara, Original Hole				6.0	13		
9,207.0							Perforated Liner	9/29/2015	11,469.0	11,471.0	Niobrara, Original Hole				6.0	13		
9,373.0							Perforated Liner	9/29/2015	11,553.0	11,555.0	Niobrara, Original Hole				6.0	13		
9,623.0							Perforated Liner	9/29/2015	11,637.0	11,639.0	Niobrara, Original Hole				6.0	13		
9,791.0							Perforated Liner	9/29/2015	11,721.0	11,723.0	Niobrara, Original Hole				6.0	13		
9,959.0							Perforated Liner	9/29/2015	11,805.0	11,807.0	Niobrara, Original Hole				6.0	13		
10,128.0							Perforated Liner	9/29/2015	11,889.0	11,891.0	Niobrara, Original Hole				6.0	13		
10,376.0							Perforated Liner	9/29/2015	11,969.0	11,971.0	Niobrara, Original Hole				6.0	13		
10,545.9							Perforated Liner	9/29/2015	12,057.0	12,059.0	Niobrara, Original Hole				6.0	13		
10,713.9							Perforated Liner	9/29/2015	12,141.0	12,143.0	Niobrara, Original Hole				6.0	13		
10,883.9							Perforated Liner	9/29/2015	12,224.0	12,226.0	Niobrara, Original Hole				6.0	13		
11,132.9							Perforated Liner	9/29/2015	12,308.0	12,310.0	Niobrara, Original Hole				6.0	13		
11,130.9							Perforated Liner	9/29/2015	12,392.0	12,394.0	Niobrara, Original Hole				6.0	13		
11,471.1							Perforated Liner	9/29/2015	12,476.0	12,478.0	Niobrara, Original Hole				6.0	13		
11,721.1							Perforated Liner	9/29/2015	12,560.0	12,562.0	Niobrara, Original Hole				6.0	13		
11,891.1							Perforated Liner	9/29/2015	12,644.0	12,646.0	Niobrara, Original Hole				6.0	13		
12,059.1							Perforated Liner	9/29/2015	12,728.0	12,730.0	Niobrara, Original Hole				6.0	13		
12,308.1							Perforated Liner	9/29/2015	12,812.0	12,814.0	Niobrara, Original Hole				6.0	13		
12,478.0							Perforated Liner	9/29/2015	12,896.0	12,898.0	Niobrara, Original Hole				6.0	13		
12,728.0							Perforated Liner											
12,898.0							Perforated Liner											
13,064.0							Perforated Liner											
13,315.0							Perforated Liner											
13,451.1							Perforated Liner											
13,566.9							Perforated Liner											
13,780.2							Perforated Liner	9/29/2015	12,896.0	12,898.0	Niobrara, Original Hole				6.0	13		



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API Number	WPC ID	Well Permit Number	Field Name	County	State
051234041100	1CO0761228		DJ Horizontal Niobrara	Weld	CO
Well Configuration Type	Orig KB Elev (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,837.00	4,816.00			13,832.0
Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref
8/1/2015	10/2/2015	Redtail	Adrian Reece	2,228.0	FNL
E/W Dist (ft)	E/W Ref				
2,041.0	FWL				
Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section
	SE	NW			29
Section Suffix	Section Type	Township	Township N/S Dir	Range	Range E/W Dir
		10	N	58	W
Meridian					

Lateral/Horizontal - Original Hole, 12/22/2015 10:48:27 AM									
MD (ftKB)	Vertical schematic (actual)		Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Linked Zone	Shot Dens (shots/ft)	Calculated Shot Total
27.9			Perforated Liner	9/29/2015	12,980.0	12,982.0	Niobrara, Original Hole	6.0	13
101.0			Perforated Liner	9/28/2015	13,060.0	13,062.0	Niobrara, Original Hole	6.0	13
1,573.5		Pierre (final)	Perforated Liner	9/28/2015	13,154.0	13,156.0	Niobrara, Original Hole	6.0	13
4,951.8		Hygiene (fi...	Perforated Liner	9/28/2015	13,231.0	13,233.0	Niobrara, Original Hole	6.0	13
5,131.9			Perforated Liner	9/28/2015	13,315.0	13,317.0	Niobrara, Original Hole	6.0	13
5,202.1			Perforated Liner	9/28/2015	13,399.0	13,401.0	Niobrara, Original Hole	6.0	13
5,219.8		Niobrara (fi...	Perforated Liner	9/28/2015	13,449.0	13,451.0	Niobrara, Original Hole	6.0	13
6,203.4			Perforated Liner	9/28/2015	13,483.0	13,485.0	Niobrara, Original Hole	6.0	13
6,268.0			Perforated Liner	9/28/2015	13,529.0	13,531.0	Niobrara, Original Hole	6.0	13
6,518.0			Perforated Liner	9/28/2015	13,529.0	13,531.0	Niobrara, Original Hole	6.0	13
6,686.0	Stimulations Summary								
6,856.0	Stimulation Method		Liner Isolation		Stim/Treat Company		Primary Fluid Type	Job Start	Job End
7,105.0	Plug & Perf (P&P)		Cement		Halliburton Energy Services		Slickwater	9/28/2015	10/2/2015
7,273.0	Stimulations Summary								
7,440.9	Comment								
7,610.9	188026 bbl total slick water used; 657 bbl total 15%HCL acid used.								
7,783.1	Total Proppant Used: 4851071# 30/50 Premium White; 106807# 40/70 Premium White.								
8,027.9	Stimulations Summary								
8,198.2	Actual # of Stages	Int #	P Treat Max (psi)		Volume Clean Total (bbl)		Vol Fresh Water Tot	Proppant Total (lb)	
8,448.2	30	30	8,167.00		188,683.00		188,026.0	4,957,878.0	
8,616.1	Stimulation Intervals								
8,786.1	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
8,951.1	Plug & Perf (P&P)		9/28/2015	1	13,567.0	13,653.0	6,237.00	167,832	
9,207.0	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
9,373.0	Plug & Perf (P&P)		9/28/2015	2	13,315.0	13,485.0	7,061.00	164,735	
9,623.0	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
9,791.0	Plug & Perf (P&P)		9/28/2015	3	13,064.0	13,233.0	5,136.00	85,981	
9,959.0	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
10,128.0	Plug & Perf (P&P)		9/29/2015	4	12,812.0	12,982.0	7,610.00	167,436	
10,376.0	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
10,545.9	Plug & Perf (P&P)		9/29/2015	5	12,560.0	12,730.0	6,231.00	176,717	
10,713.9	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
10,883.9	Plug & Perf (P&P)		9/29/2015	6	12,308.0	12,478.0	6,277.00	172,931	
11,102.9	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
11,300.9	Plug & Perf (P&P)		9/29/2015	7	12,057.0	12,226.0	6,290.00	173,272	
11,471.1	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
11,721.1	Plug & Perf (P&P)		9/29/2015	8	11,805.0	11,975.0	6,630.00	176,910	
11,891.1	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
12,059.1	Plug & Perf (P&P)		9/29/2015	9	11,553.0	11,723.0	6,430.00	169,124	
12,308.1	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
12,478.0	Plug & Perf (P&P)		9/29/2015	10	11,301.0	11,471.0	6,413.00	169,872	
12,728.0	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
12,898.0	Plug & Perf (P&P)		9/30/2015	11	11,050.0	11,219.0	6,474.00	173,143	
13,064.0	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
13,315.0	Plug & Perf (P&P)		9/30/2015	12	10,798.0	10,968.0	6,441.00	179,510	
13,451.1	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
13,586.9	Plug & Perf (P&P)		9/30/2015	13	10,546.0	10,716.0	6,139.00	162,738	
13,780.2	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		9/30/2015	14	10,294.0	10,464.0	6,393.00	175,744	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		9/30/2015	15	10,043.0	10,212.0	6,411.00	171,100	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		9/30/2015	16	9,791.0	9,961.0	6,146.00	166,066	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		9/30/2015	17	9,539.0	9,709.0	6,138.00	160,844	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/1/2015	18	9,287.0	9,457.0	6,121.00	161,161	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/1/2015	19	9,035.0	9,205.0	6,074.00	162,464	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/1/2015	20	8,784.0	8,954.0	6,012.00	172,503	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/1/2015	21	8,532.0	8,702.0	6,026.00	161,248	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/1/2015	22	8,280.0	8,450.0	6,029.00	154,962	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/1/2015	23	8,028.0	8,198.0	6,066.00	161,246	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/1/2015	24	7,777.0	7,946.0	6,809.00	167,342	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/1/2015	25	7,525.0	7,695.0	6,309.00	147,206	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/2/2015	26	7,273.0	7,443.0	6,637.00	165,342	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/2/2015	27	7,021.0	7,191.0	6,207.00	178,601	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/2/2015	28	6,770.0	6,939.0	5,917.00	167,280	
	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
	Plug & Perf (P&P)		10/2/2015	29	6,518.0	6,688.0	6,064.00	171,022	



Completion Report Info - CR and Frac Summary Report

Well Name: RAZOR 29F-2007

API Number	WPC ID	Well Permit Number	Field Name	County	State
051234041100	1CO0761228		DJ Horizontal Niobrara	Weld	CO
Well Configuration Type	Orig KB Elev (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,837.00	4,816.00			13,832.0
Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref
8/1/2015	10/2/2015	Redtail	Adrian Reece	2,228.0	FNL
E/W Dist (ft)	E/W Ref				
2,041.0	FWL				
Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section
	SE	NW			29
Section Suffix	Section Type	Township	Township N/S Dir	Range	Range E/W Dir
		10	N	58	W
Meridian					

Lateral/Horizontal - Original Hole, 12/22/2015 10:48:27 AM		Stimulation Intervals								
MD (ftKB)	Vertical schematic (actual)	Stage Completion Type		Stage Start Time	Stage #	Top Depth (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)	
		Plug & Perf (P&P)		10/2/2015	30	6,266.0	6,436.0	5,955.00	173,546	
Tubing										
Tubing - Production set at 5,220.6ftKB on 10/18/2015 06:00										
		Set Depth (ftKB)	Comment				Run Date	Pull Date		
		5,220.6					10/18/2015			
		Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	
27.9		Tubing	2.875	6.50	L-80	1	32.18	21.0	53.2	
101.0		Tubing Sub	2.875	6.50	L-80	1	4.08	53.2	57.3	
1,573.5		Tubing Sub	2.875	6.50	L-80	1	10.05	57.3	67.3	
4,951.8		Tubing Sub	2.875	6.50	L-80	1	8.26	67.3	75.6	
5,131.9		Tubing	2.875	6.50	L-80	152	4,872.08	75.6	4,947.7	
5,202.1		Mandrel	2.875			1	4.10	4,947.7	4,951.8	
5,219.8		Tubing	2.875	6.50	L-80	4	127.65	4,951.8	5,079.4	
6,203.4		Cross Over	2.875			1	0.40	5,079.4	5,079.8	
6,208.0		Tubing	2.375	4.70	L-80	4	122.21	5,079.8	5,202.0	
6,518.0		On-Off Tool	3.750			1	1.35	5,202.0	5,203.4	
6,518.0		Profile Nipple	2.604			1	1.18	5,203.4	5,204.5	
6,518.0		Packer	3.750			1	6.50	5,204.5	5,211.0	
6,518.0		Pump Out Plug	3.063			1	0.78	5,211.0	5,211.8	
6,518.0		Perforated Joint	2.875			1	8.09	5,211.8	5,219.9	
6,518.0		Bull Plug	2.875			1	0.68	5,219.9	5,220.6	
7,105.0		Rod Strings								
7,273.0		<des> on <dtmrun>								
7,440.9		Rod Description	Comment				Run Date	Pull Date		
7,440.9		Item Des	OD (in)	Wt (lb/ft)	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)		
7,440.9										
7,610.9		Other String Components								
7,610.9		Item Des	OD (in)	Len (ft)		Top (ftKB)	Btm (ftKB)	ID (in)		
7,610.9										
7,783.1		Other In Hole								
8,027.9		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
8,027.9		SRO Gauge	1 1/2	10/18/2015		4,947.7	4,956.2			
8,027.9		Comment								
8,448.2		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
8,448.2		Frac Plug	3.6	10/2/2015	10/16/2015	6,476.0	6,478.0			
8,448.2		Comment								
8,448.2		Isolation								
9,035.1		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
9,035.1		Frac Plug	3.6	10/2/2015	10/16/2015	6,728.0	6,730.0			
9,035.1		Comment								
9,035.1		Isolation								
9,373.0		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
9,373.0		Frac Plug	3.6	10/2/2015	10/16/2015	6,979.0	6,981.0			
9,373.0		Comment								
9,373.0		Isolation								
9,791.0		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
9,791.0		Frac Plug	3.6	10/2/2015	10/16/2015	7,240.0	7,242.0			
9,791.0		Comment								
9,791.0		Isolation								
9,959.0		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
9,959.0		Frac Plug	3.6	10/1/2015	10/16/2015	7,483.0	7,485.0			
9,959.0		Comment								
9,959.0		Isolation								
10,128.0		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
10,128.0		Frac Plug	3.6	10/1/2015	10/16/2015	7,723.0	7,725.0			
10,128.0		Comment								
10,128.0		Isolation								
10,545.9		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
10,545.9		Frac Plug	3.6	10/1/2015	10/16/2015	7,986.0	7,988.0			
10,545.9		Comment								
10,545.9		Isolation								
10,713.9		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
10,713.9		Frac Plug	3.6	10/1/2015	10/16/2015	8,238.0	8,240.0			
10,713.9		Comment								
10,713.9		Isolation								
10,883.9		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
10,883.9		Frac Plug	3.6	10/1/2015	10/16/2015	8,500.0	8,502.0			
10,883.9		Comment								
10,883.9		Isolation								
11,132.9		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
11,132.9		Frac Plug	3.6	10/1/2015	10/16/2015	8,742.0	8,744.0			
11,132.9		Comment								
11,132.9		Isolation								
11,300.9		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
11,300.9		Frac Plug	3.6	10/1/2015	10/16/2015	8,993.0	8,995.0			
11,300.9		Comment								
11,300.9		Isolation								
11,471.1		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
11,471.1		Frac Plug	3.6	10/1/2015	10/16/2015	9,252.0	9,254.0			
11,471.1		Comment								
11,471.1		Isolation								
11,721.1		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
11,721.1		Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0			
11,721.1		Comment								
11,721.1		Isolation								
11,891.1		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)			
11,891.1		Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0			
11,891.1		Comment								
11,891.1		Isolation								
12,059.1	Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)				
12,059.1	Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0				
12,059.1	Comment									
12,059.1	Isolation									
12,308.1	Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)				
12,308.1	Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0				
12,308.1	Comment									
12,308.1	Isolation									
12,478.0	Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)				
12,478.0	Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0				
12,478.0	Comment									
12,478.0	Isolation									
12,728.0	Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)				
12,728.0	Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0				
12,728.0	Comment									
12,728.0	Isolation									
12,898.0	Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)				
12,898.0	Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0				
12,898.0	Comment									
12,898.0	Isolation									
13,064.0	Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)				
13,064.0	Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0				
13,064.0	Comment									
13,064.0	Isolation									
13,315.0	Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)				
13,315.0	Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0				
13,315.0	Comment									
13,315.0	Isolation									
13,451.1	Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)				
13,451.1	Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0				
13,451.1	Comment									
13,451.1	Isolation									
13,596.9	Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)				
13,596.9	Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0				
13,596.9	Comment									
13,596.9	Isolation									
13,780.2	Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)				
13,780.2	Frac Plug	3.6	10/1/2015	10/16/2015	9,497.0	9,499.0				
13,780.2	Comment									
13,780.2	Isolation									



Completion Report Info - CR and Frac Summary Report

Well Name: RAZOR 29F-2007

API Number	WPC ID	Well Permit Number	Field Name	County	State
051234041100	1CO0761228		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	4,837.00	4,816.00			13,832.0
Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref
8/1/2015	10/2/2015	Redtail	Adrian Reece	2,228.0	FNL
				E/W Dist (ft)	E/W Ref
				2,041.0	FWL
Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section
	SE	NW			29
					Section Suffix
					Section Type
					Township
					10
					Township N/S Dir
					N
					Range
					58
					Range E/W Dir
					W
					Meridian

Lateral/Horizontal - Original Hole, 12/22/2015 10:48:28 AM		Other In Hole					
MD (ftKB)		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
	Vertical schematic (actual)	Frac Plug	3.6	9/30/2015	10/16/2015	9,738.0	9,740.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/30/2015	10/16/2015	10,001.0	10,003.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/30/2015	10/16/2015	10,252.0	10,254.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/30/2015	10/16/2015	10,497.0	10,499.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/30/2015	10/16/2015	10,758.0	10,760.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/30/2015	10/16/2015	11,008.0	11,010.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/29/2015	10/16/2015	11,255.0	11,257.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/29/2015	10/16/2015	11,495.0	11,497.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/29/2015	10/16/2015	11,763.0	11,765.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/29/2015	10/16/2015	12,005.0	12,007.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/29/2015	10/16/2015	12,266.0	12,268.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/29/2015	10/16/2015	12,518.0	12,520.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/29/2015	10/16/2015	12,770.0	12,772.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/29/2015	10/16/2015	13,017.0	13,019.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/28/2015	10/16/2015	13,273.0	13,275.0
		Comment					
		Isolation					
		Description	OD (in)	Run Date	Pull Date	Top Depth (ftKB)	Btm (ftKB)
		Frac Plug	3.6	9/28/2015	10/16/2015	13,525.0	13,527.0
		Comment					
		Isolation					
		Bottom Hole Cores					
		Core #	Date	Top (ftKB)	Btm (ftKB)	Wellbore	Recovered (ft)
							% Rec...
		Comment					