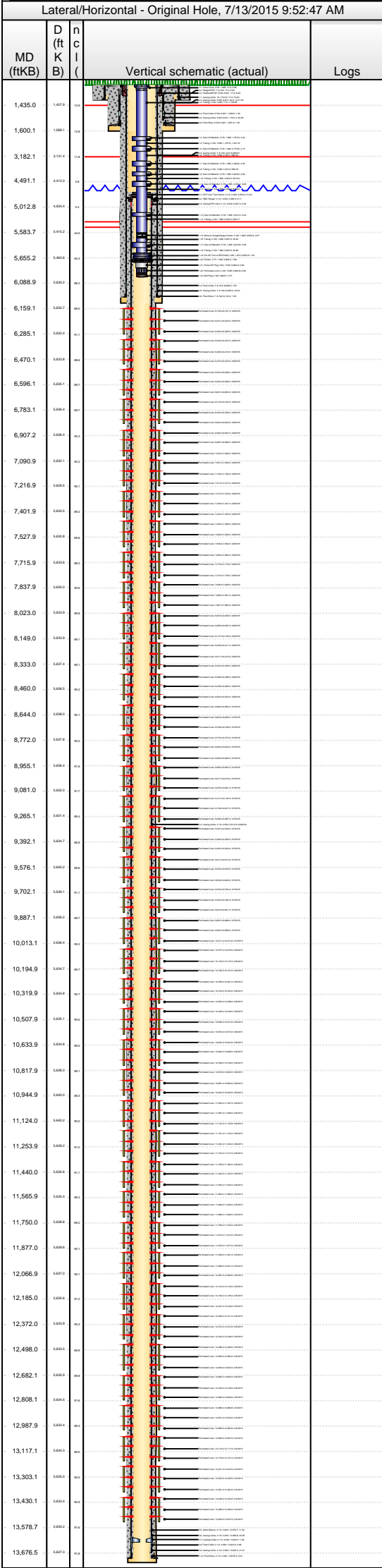




Lease Review All - Frac Summary

Well Name: HORSETAIL 30F-1944

API Number 05123874100		WPC ID 1CO0761015		Well Permit Number		Field Name DJ Horizontal Niobrara			County Weld			State CO		
Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 4,800.00		Ground Elevation (ft) 4,783.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ft)KB 13,684.0		
Original Spud Date 9/18/2014		Completion Date 3/9/2015		Asset Group Redtail			Responsible Engineer Charles Ohlson			N/S Dist (ft) 2,323.0		N/S Ref FNL	E/W Dist (ft) 1,950.0	E/W Ref FWL
Lot	Quarter 1 SE	Quarter 2 NW	Quarter 3	Quarter 4	Section 30	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 57	Range E/W Dir W	Meridian		



Wellbore Sections						
Wellbore Name			Start Date	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Original Hole			4/23/2014	20	17.0	90.0
Original Hole			9/18/2014	13 1/2	90.0	1,600.0
Original Hole			9/20/2014	8 3/4	1,600.0	6,150.0
Original Hole			9/22/2014	6	6,150.0	13,684.0
Conductor Pipe, 90.0ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
16	84.00	K-55	17.0	90.0	73.00	Casing Joints
Surface Csg, 1,583.3ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
9 5/8	36.00	J-55	17.0	17.0	0.00	Landing Joint
9 5/8	36.00	J-55	17.0	22.0	5.00	Wellhead/PUP
9 5/8	36.00	J-55	22.0	1,539.5	1,517.45	Casing Joints
9 5/8	36.00	J-55	1,539.5	1,541.0	1.50	Float Collar
9 5/8	36.00	J-55	1,541.0	1,581.8	40.83	Casing Joints
9 5/8	36.00	J-55	1,581.8	1,583.3	1.50	Float Shoe
Frac String, 4,978.3ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
7			17.0	17.6	0.60	Casing Hanger
4 1/2			17.6	18.6	1.00	BTC x LTC crossover
4 1/2		11.60	18.6	60.5	41.92	4.5# P-110 BTC-TXP 11.6# casing
4 1/2			60.5	73.8	13.35	4.5" BTC-TXP spaceout pup jt 8.25', 3.55', 1.55
4 1/2		11.60	73.8	4,970.8	4,896.93	4.5# P-110 BTC-TXP 11.6# casing
4 1/2			4,970.8	4,976.9	6.17	Pup Joint
5 1/4			4,976.9	4,978.3	1.33	Baker Hughes seal assembly
Intermediate Csg, 6,135.9ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
7	29.00	HCL-80	17.0	17.0	0.00	Landing Joint
7	29.00	HCL-80	17.0	22.0	5.00	Hanger/PUP
7	29.00	HCL-80	22.0	6,088.9	6,066.91	Casing Joints
7	29.00	HCL-80	6,088.9	6,090.4	1.50	Float Collar
7	29.00	HCL-80	6,090.4	6,134.4	44.03	Casing Joints
7	29.00	HCL-80	6,134.4	6,135.9	1.50	Float Shoe
Liner, 13,679.0ftKB						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
4 1/2	11.60	L-80	4,978.3	4,999.3	21.00	ZXP Liner Top Packer
4 1/2	11.60	L-80	4,999.3	5,007.4	8.11	HMC Hanger
4 1/2	11.60	L-80	5,007.4	5,012.9	5.49	Casing PUP Joint
4 1/2	11.60	L-80	5,012.9	13,578.7	8,565.84	Casing Joints
4 1/2	11.60	L-80	13,578.7	13,590.6	11.94	Alpha Sleeve
4 1/2	11.60	L-80	13,590.6	13,632.7	42.05	Casing Joints
4 1/2	11.60	L-80	13,632.7	13,634.3	1.59	Landing Collar
4 1/2	11.60	L-80	13,634.3	13,635.3	0.98	Float Collar
4 1/2	11.60	L-80	13,635.3	13,676.5	41.21	Casing Joints
4 1/2	11.60	L-80	13,676.5	13,679.0	2.53	Float Shoe
Cement Stages						
Des		Pump Start Date	Drill Out Date	Top (ftKB)	Btm (ftKB)	Top Meas Meth
Conductor Cement		4/23/2014		17.0	90.0	Returns to Surface
Surface Casing Cement		9/19/2014		17.0	1,583.3	Returns to Surface
Intermediate Casing Cement		9/11/2014		17.0	6,135.9	Returns to Surface
Liner Cement		9/30/2014		4,978.3	13,679.0	Returns to Surface
Perforations						
Type of Hole		Date	Top (ftKB)	Btm (ftKB)	Zone	
Perforated Liner		3/9/2015	6,159.0	6,161.0	Niobrara, Original Hole	
Perforated Liner		3/9/2015	6,221.0	6,223.0	Niobrara, Original Hole	
Perforated Liner		3/9/2015	6,283.0	6,285.0	Niobrara, Original Hole	
Perforated Liner		3/9/2015	6,345.0	6,347.0	Niobrara, Original Hole	
Perforated Liner		3/9/2015	6,408.0	6,410.0	Niobrara, Original Hole	
Perforated Liner		3/9/2015	6,470.0	6,472.0	Niobrara, Original Hole	
Perforated Liner		3/9/2015	6,534.0	6,536.0	Niobrara, Original Hole	
Perforated Liner		3/9/2015	6,594.0	6,596.0	Niobrara, Original Hole	
Perforated Liner		3/9/2015	6,651.0	6,653.0	Niobrara, Original Hole	
Perforated Liner		3/9/2015	6,718.0	6,720.0	Niobrara, Original Hole	
Perforated Liner		3/9/2015	6,783.0	6,785.0	Niobrara, Original Hole	
Perforated Liner		3/9/2015	6,842.0	6,844.0	Niobrara, Original Hole	
Perforated Liner		3/8/2015	6,905.0	6,907.0	Niobrara, Original Hole	
Perforated Liner		3/8/2015	6,967.0	6,969.0	Niobrara, Original Hole	



Lease Review All - Frac Summary

Well Name: HORSETAIL 30F-1944

API Number	WPC ID	Well Permit Number	Field Name	County	State
051233874100	1CO0761015		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	4,800.00	4,783.00			13,684.0
Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref
9/18/2014	3/9/2015	Redtail	Charles Ohlson	2,323.0	FNL
				E/W Dist (ft)	E/W Ref
				1,950.0	FWL
Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section
	SE	NW			30
			Section Suffix	Section Type	Township
					10 N
			Township N/S Dir	Range	Range E/W Dir
				57	W
			Meridian		

Lateral/Horizontal - Original Hole, 7/13/2015 9:52:50 AM					Perforations				
MD (ftKB)	D (ft K B)	n c l (	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
					Perforated Liner	3/8/2015	7,024.0	7,026.0	Niobrara, Original Hole
					Perforated Liner	3/8/2015	7,091.0	7,093.0	Niobrara, Original Hole
					Perforated Liner	3/8/2015	7,158.0	7,160.0	Niobrara, Original Hole
					Perforated Liner	3/8/2015	7,215.0	7,217.0	Niobrara, Original Hole
1,435.0	1.4374	124			Perforated Liner	3/8/2015	7,274.0	7,276.0	Niobrara, Original Hole
1,600.1	1.5981	124			Perforated Liner	3/8/2015	7,339.0	7,341.0	Niobrara, Original Hole
3,182.1	3.1914	124			Perforated Liner	3/8/2015	7,402.0	7,404.0	Niobrara, Original Hole
4,491.1	4.4933	124			Perforated Liner	3/8/2015	7,464.0	7,466.0	Niobrara, Original Hole
5,012.8	5.0184	124			Perforated Liner	3/8/2015	7,526.0	7,528.0	Niobrara, Original Hole
5,583.7	5.4952	84.0			Perforated Liner	3/8/2015	7,590.0	7,592.0	Niobrara, Original Hole
5,655.2	5.4604	84.2			Perforated Liner	3/8/2015	7,650.0	7,652.0	Niobrara, Original Hole
6,088.9	5.8802	84.2			Perforated Liner	3/8/2015	7,716.0	7,718.0	Niobrara, Original Hole
6,159.1	5.8807	84.4			Perforated Liner	3/8/2015	7,774.0	7,776.0	Niobrara, Original Hole
6,285.1	5.8824	84.2			Perforated Liner	3/8/2015	7,836.0	7,838.0	Niobrara, Original Hole
6,470.1	5.8834	84.2			Perforated Liner	3/8/2015	7,899.0	7,901.0	Niobrara, Original Hole
6,596.1	5.8851	84.2			Perforated Liner	3/8/2015	7,961.0	7,963.0	Niobrara, Original Hole
6,783.1	5.8864	84.2			Perforated Liner	3/8/2015	8,023.0	8,025.0	Niobrara, Original Hole
6,907.2	5.8884	84.2			Perforated Liner	3/8/2015	8,085.0	8,087.0	Niobrara, Original Hole
7,090.9	5.8921	84.2			Perforated Liner	3/8/2015	8,147.0	8,149.0	Niobrara, Original Hole
7,216.9	5.8936	84.2			Perforated Liner	3/8/2015	8,209.0	8,211.0	Niobrara, Original Hole
7,401.9	5.8950	84.4			Perforated Liner	3/8/2015	8,271.0	8,273.0	Niobrara, Original Hole
7,527.9	5.8959	84.0			Perforated Liner	3/8/2015	8,333.0	8,335.0	Niobrara, Original Hole
7,715.9	5.8934	84.2			Perforated Liner	3/8/2015	8,396.0	8,398.0	Niobrara, Original Hole
7,837.9	5.8950	84.4			Perforated Liner	3/8/2015	8,458.0	8,460.0	Niobrara, Original Hole
8,023.0	5.8934	84.4			Perforated Liner	3/8/2015	8,520.0	8,522.0	Niobrara, Original Hole
8,149.0	5.8939	84.2			Perforated Liner	3/7/2015	8,580.0	8,582.0	Niobrara, Original Hole
8,333.0	5.8974	84.2			Perforated Liner	3/7/2015	8,644.0	8,646.0	Niobrara, Original Hole
8,460.0	5.8980	84.2			Perforated Liner	3/7/2015	8,706.0	8,708.0	Niobrara, Original Hole
8,644.0	5.8980	84.4			Perforated Liner	3/7/2015	8,770.0	8,772.0	Niobrara, Original Hole
8,772.0	5.8978	84.2			Perforated Liner	3/7/2015	8,830.0	8,832.0	Niobrara, Original Hole
8,955.1	5.8984	84.4			Perforated Liner	3/7/2015	8,890.0	8,892.0	Niobrara, Original Hole
9,081.0	5.8920	84.2			Perforated Liner	3/7/2015	8,955.0	8,957.0	Niobrara, Original Hole
9,265.1	5.8974	84.4			Perforated Liner	3/7/2015	9,017.0	9,019.0	Niobrara, Original Hole
9,392.1	5.8947	84.0			Perforated Liner	3/7/2015	9,079.0	9,081.0	Niobrara, Original Hole
9,576.1	5.8962	84.4			Perforated Liner	3/7/2015	9,141.0	9,143.0	Niobrara, Original Hole
9,702.1	5.8981	84.2			Perforated Liner	3/7/2015	9,199.0	9,201.0	Niobrara, Original Hole
9,887.1	5.8984	84.4			Perforated Liner	3/7/2015	9,265.0	9,267.0	Niobrara, Original Hole
10,013.1	5.8984	84.2			Perforated Liner	3/7/2015	9,327.0	9,329.0	Niobrara, Original Hole
10,194.9	5.8947	84.2			Perforated Liner	3/7/2015	9,390.0	9,392.0	Niobrara, Original Hole
10,319.9	5.8944	84.2			Perforated Liner	3/7/2015	9,452.0	9,454.0	Niobrara, Original Hole
10,507.9	5.8951	84.4			Perforated Liner	3/7/2015	9,512.0	9,514.0	Niobrara, Original Hole
10,633.9	5.8948	84.0			Perforated Liner	3/7/2015	9,576.0	9,578.0	Niobrara, Original Hole
10,817.9	5.8984	84.2			Perforated Liner	3/7/2015	9,638.0	9,640.0	Niobrara, Original Hole
10,944.9	5.8900	84.2			Perforated Liner	3/7/2015	9,700.0	9,702.0	Niobrara, Original Hole
11,124.0	5.8962	84.4			Perforated Liner	3/7/2015	9,762.0	9,764.0	Niobrara, Original Hole
11,253.9	5.8982	84.0			Perforated Liner	3/7/2015	9,762.0	9,764.0	Niobrara, Original Hole
11,440.0	5.8984	84.2			Perforated Liner	3/7/2015	9,819.0	9,821.0	Niobrara, Original Hole
11,565.9	5.8984	84.2			Perforated Liner	3/7/2015	9,887.0	9,889.0	Niobrara, Original Hole
11,750.0	5.8984	84.4			Perforated Liner	3/7/2015	9,954.0	9,956.0	Niobrara, Original Hole
11,877.0	5.8984	84.2			Perforated Liner	3/7/2015	10,011.0	10,013.0	Niobrara, Original Hole
12,066.9	5.8974	84.2			Perforated Liner	3/6/2015	10,077.0	10,079.0	Niobrara, Original Hole
12,185.0	5.8984	84.2			Perforated Liner	3/6/2015	10,135.0	10,137.0	Niobrara, Original Hole
12,372.0	5.8984	84.4			Perforated Liner	3/6/2015	10,195.0	10,197.0	Niobrara, Original Hole
12,498.0	5.8980	84.0			Perforated Liner	3/6/2015	10,259.0	10,261.0	Niobrara, Original Hole
12,682.1	5.8984	84.4			Perforated Liner	3/6/2015	10,318.0	10,320.0	Niobrara, Original Hole
12,808.1	5.8944	84.4			Perforated Liner	3/6/2015	10,384.0	10,386.0	Niobrara, Original Hole
12,987.9	5.8984	84.4			Perforated Liner	3/6/2015	10,446.0	10,448.0	Niobrara, Original Hole
13,117.1	5.8943	84.0			Perforated Liner	3/6/2015	10,508.0	10,510.0	Niobrara, Original Hole
13,303.1	5.8980	84.2			Perforated Liner	3/6/2015	10,570.0	10,572.0	Niobrara, Original Hole
13,430.1	5.8984	84.4			Perforated Liner	3/6/2015	10,632.0	10,634.0	Niobrara, Original Hole
13,578.7	5.8984	84.4			Perforated Liner	3/6/2015	10,694.0	10,696.0	Niobrara, Original Hole
13,678.5	5.8973	84.0			Perforated Liner	3/6/2015	10,756.0	10,758.0	Niobrara, Original Hole
					Perforated Liner	3/6/2015	10,818.0	10,820.0	Niobrara, Original Hole
					Perforated Liner	3/6/2015	10,881.0	10,883.0	Niobrara, Original Hole
					Perforated Liner	3/6/2015	10,943.0	10,945.0	Niobrara, Original Hole
					Perforated Liner	3/6/2015	11,005.0	11,007.0	Niobrara, Original Hole
					Perforated Liner	3/6/2015	11,067.0	11,069.0	Niobrara, Original Hole
					Perforated Liner	3/6/2015	11,124.0	11,126.0	Niobrara, Original Hole
					Perforated Liner	3/6/2015	11,191.0	11,193.0	Niobrara, Original Hole
					Perforated Liner	3/6/2015	11,252.0	11,254.0	Niobrara, Original Hole
					Perforated Liner	3/6/2015	11,315.0	11,317.0	Niobrara, Original Hole



Lease Review All - Frac Summary  
Well Name: HORSETAIL 30F-1944

API Number	WPC ID	Well Permit Number	Field Name	County	State
051233874100	1CO0761015		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	4,800.00	4,783.00			13,684.0
Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref
9/18/2014	3/9/2015	Redtail	Charles Ohlson	2,323.0	FNL
				E/W Dist (ft)	E/W Ref
				1,950.0	FWL
Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section
	SE	NW			30
			Section Suffix	Section Type	Township
					10 N
				Range	57 W

Lateral/Horizontal - Original Hole, 7/13/2015 9:52:52 AM					Perforations				
MD (ftKB)	D (ft K B)	n c l (	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
					Perforated Liner	3/6/2015	11,378.0	11,380.0	Niobrara, Original Hole
					Perforated Liner	3/6/2015	11,440.0	11,442.0	Niobrara, Original Hole
					Perforated Liner	3/6/2015	11,502.0	11,504.0	Niobrara, Original Hole
1,435.0	1.4374	124			Perforated Liner	3/5/2015	11,564.0	11,566.0	Niobrara, Original Hole
1,600.1	1.5981	124			Perforated Liner	3/5/2015	11,626.0	11,628.0	Niobrara, Original Hole
3,182.1	3.1741	124			Perforated Liner	3/5/2015	11,688.0	11,690.0	Niobrara, Original Hole
4,491.1	4.4933	124			Perforated Liner	3/5/2015	11,750.0	11,752.0	Niobrara, Original Hole
5,012.8	5.0084	124			Perforated Liner	3/5/2015	11,812.0	11,814.0	Niobrara, Original Hole
5,583.7	5.4152	86.0			Perforated Liner	3/5/2015	11,875.0	11,877.0	Niobrara, Original Hole
5,655.2	5.4624	86.0			Perforated Liner	3/5/2015	11,939.0	11,941.0	Niobrara, Original Hole
6,088.9	5.8802	86.0			Perforated Liner	3/5/2015	11,999.0	12,001.0	Niobrara, Original Hole
6,159.1	5.9307	86.0			Perforated Liner	3/5/2015	12,067.0	12,069.0	Niobrara, Original Hole
6,285.1	5.9924	86.0			Perforated Liner	3/5/2015	12,123.0	12,125.0	Niobrara, Original Hole
6,470.1	6.0334	86.0			Perforated Liner	3/5/2015	12,183.0	12,185.0	Niobrara, Original Hole
6,596.1	6.0851	86.0			Perforated Liner	3/5/2015	12,247.0	12,249.0	Niobrara, Original Hole
6,783.1	6.5864	86.0			Perforated Liner	3/5/2015	12,309.0	12,311.0	Niobrara, Original Hole
6,907.2	6.5884	86.0			Perforated Liner	3/5/2015	12,372.0	12,374.0	Niobrara, Original Hole
7,090.9	6.9821	86.0			Perforated Liner	3/5/2015	12,434.0	12,436.0	Niobrara, Original Hole
7,216.9	7.0305	86.0			Perforated Liner	3/5/2015	12,496.0	12,498.0	Niobrara, Original Hole
7,401.9	7.3850	86.0			Perforated Liner	3/5/2015	12,558.0	12,560.0	Niobrara, Original Hole
7,527.9	7.5003	86.0			Perforated Liner	3/5/2015	12,620.0	12,622.0	Niobrara, Original Hole
7,715.9	7.6934	86.0			Perforated Liner	3/5/2015	12,682.0	12,684.0	Niobrara, Original Hole
7,837.9	7.8350	86.0			Perforated Liner	3/5/2015	12,746.0	12,748.0	Niobrara, Original Hole
8,023.0	8.0034	86.0			Perforated Liner	3/5/2015	12,806.0	12,808.0	Niobrara, Original Hole
8,149.0	8.0334	86.0			Perforated Liner	3/4/2015	12,866.0	12,868.0	Niobrara, Original Hole
8,333.0	8.0747	86.0			Perforated Liner	3/4/2015	12,931.0	12,933.0	Niobrara, Original Hole
8,460.0	8.0860	86.0			Perforated Liner	3/4/2015	12,988.0	12,990.0	Niobrara, Original Hole
8,644.0	8.0860	86.0			Perforated Liner	3/4/2015	13,055.0	13,057.0	Niobrara, Original Hole
8,772.0	8.0718	86.0			Perforated Liner	3/4/2015	13,115.0	13,117.0	Niobrara, Original Hole
8,955.1	8.0844	86.0			Perforated Liner	3/4/2015	13,179.0	13,181.0	Niobrara, Original Hole
9,081.0	8.0202	86.0			Perforated Liner	3/4/2015	13,241.0	13,243.0	Niobrara, Original Hole
9,265.1	8.0714	86.0			Perforated Liner	3/4/2015	13,303.0	13,305.0	Niobrara, Original Hole
9,392.1	8.0747	86.0			Perforated Liner	3/4/2015	13,361.0	13,363.0	Niobrara, Original Hole
9,576.1	8.0602	86.0			Perforated Liner	3/4/2015	13,428.0	13,430.0	Niobrara, Original Hole
9,702.1	8.0361	86.0			Perforated Liner	3/4/2015	13,488.0	13,490.0	Niobrara, Original Hole
9,887.1	8.0860	86.0			Perforated Liner	3/4/2015	13,525.0	13,527.0	Niobrara, Original Hole
10,013.1	8.0361	86.0			<b>Stimulations &amp; Treatments</b>				
10,194.9	8.0847	86.0			<b>Sand Frac on 3/4/2015 14:37</b>				
10,319.9	8.0444	86.0			Comment				
10,507.9	8.0851	86.0			Treatment End Date:3/9/2015; Number of staged intervals: 40; Number of perfs: 1440; Min frac gradient: 0.85 psi/ft; pHaserFrac 22 XL Gel: 83344 bbl; 22 Linear Gel: 13250 bbl; 15% HCl: 262 bbl; Slickwater: 26452 bbl; Fresh Water: 7527 bbl				
10,633.9	8.0344	86.0			Total Clean Volu...	Vol Slurry Tot (bbl)	Proppant Desig...	Proppant Frm (lb)	P Max (psi)
10,817.9	8.0860	86.0			130835.15	6,920,000.0	6,452,409.0	6,449.0	Avg Treat...
10,944.9	8.0400	86.0			Total Add Amount				
11,124.0	8.0602	86.0			Proppant 20/40 Ottawa 6333400 lb; Proppant 40/70 Ottawa 119009 lb				
11,253.9	8.0902	86.0			<b>Stim/Treat Fluids</b>				
11,440.0	8.0864	86.0			Fluid Name				
11,565.9	8.0864	86.0			pHaserFrac 22 XL Gel; 22 Linear Gel; 15% HCl				
11,750.0	8.0864	86.0			<b>Stim/Treat Stages</b>				
11,877.0	8.0904	86.0			<b>Interval 1</b>				
12,066.9	8.0710	86.0			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...
12,185.0	8.0864	86.0			1	3/4/2015	13,428.0	13,527.0	3692.81
12,372.0	8.0864	86.0							Vol Slurry...
12,498.0	8.0300	86.0			Comment				
12,682.1	8.0864	86.0			pHaserFrac 22 XL Gel:1753 bbl; 22 Linear Gel:469 bbl; 15 % HCl:24 bbl; Slickwater:977 bbl; Wireline Fresh Water:296 bbl; Fresh Water:174 bbl				
12,808.1	8.0464	86.0			<b>Stim/Treat Additives</b>				
12,987.9	8.0304	86.0			Stg #	Add	Type	Amount	Units
13,117.1	8.0340	86.0			1	Proppant	20/40 Ottawa	107,127.0	lb
13,303.1	8.0864	86.0			1	Proppant	40/70 Ottawa	2,822.0	lb
13,430.1	8.0864	86.0			<b>Interval 2</b>				
13,578.7	8.0860	86.0			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...
13,678.5	8.0710	86.0			2	3/4/2015	13,241.0	13,363.0	3162.62
									Vol Slurry...
					Comment				
					pHaserFrac 22 XL Gel:1718 bbl; 22 Linear Gel:333 bbl; 15 % HCl:24 bbl; Slickwater:707 bbl; Wireline Fresh Water:344 bbl; Fresh Water:37 bbl				
					<b>Stim/Treat Additives</b>				
					Stg #	Add	Type	Amount	Units
					2	Proppant	20/40 Ottawa	103,328.0	lb
					2	Proppant	40/70 Ottawa	3,960.0	lb
					<b>Interval 3</b>				
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...
					3	3/4/2015	13,055.0	13,181.0	3101.40
									Vol Slurry...
					Comment				
					pHaserFrac 22 XL Gel:1729 bbl; 22 Linear Gel:332 bbl; 15 % HCl:24 bbl; Slickwater:694 bbl; Wireline Fresh Water:305 bbl; Fresh Water:18 bbl				

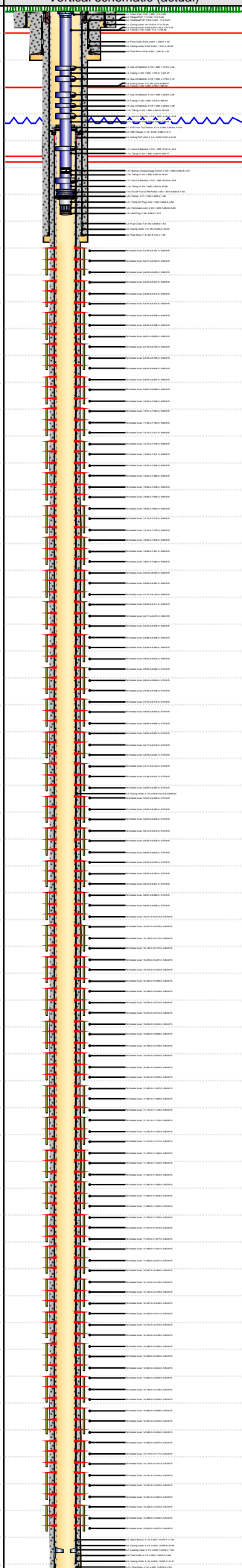


Lease Review All - Frac Summary

Well Name: HORSETAIL 30F-1944

API Number 051233874100		WPC ID 1CO0761015		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO				
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 4,800.00		Ground Elevation (ft) 4,783.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 13,684.0			
Original Spud Date 9/18/2014		Completion Date 3/9/2015		Asset Group Redtail		Responsible Engineer Charles Ohlson		N/S Dist (ft) 2,323.0		N/S Ref FNL		E/W Dist (ft) 1,950.0	E/W Ref FWL	
Lot		Quarter 1 SE	Quarter 2 NW	Quarter 3	Quarter 4	Section 30	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 57	Range E/W Dir W	Meridian	
Lateral/Horizontal - Original Hole, 7/13/2015 9:52:55 AM						Stim/Treat Additives								
MD (ftKB)	D (ft K B)	n (	c )	Vertical schematic (actual)	Logs	Stg #		Add		Type		Amount	Units	Sand Size
						3	Proppant	20/40 Ottawa		106,043.0	lb	20/40		
						3	Proppant	40/70 Ottawa		3,106.0	lb	40/70		
Interval 4														
						Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment		
1,435.0	1.4374	129				4	3/4/2015	12,866.0	12,990.0	3474.00		pHaserFrac 22 XL Gel:2099 bbl; 22 Linear Gel:326 bbl; 15 % HCl:24 bbl; Slickwater:692 bbl; Wireline Fresh Water:306 bbl; Fresh Water:27 bbl		
1,600.1	1.5981	128			Stim/Treat Additives									
					Stg #	Add		Type		Amount	Units	Sand Size		
3,182.1	3.1814	118			4	Proppant		20/40 Ottawa		169,880.0	lb	20/40		
4,491.1	4.4903	118			4	Proppant		40/70 Ottawa		2,857.0	lb	40/70		
5,012.8	5.0154	114			Interval 5									
5,563.7	5.5612	103			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment			
5,655.2	5.6560	103			5	3/4/2015	12,682.0	12,808.0	3487.71		pHaserFrac 22 XL Gel:2113 bbl; 22 Linear Gel:324 bbl; 15 % HCl:24 bbl; Slickwater:689 bbl; Wireline Fresh Water:312 bbl; Fresh Water:27 bbl			
6,088.9	6.0892	102			Stim/Treat Additives									
6,159.1	6.1587	101			Stg #	Add		Type		Amount	Units	Sand Size		
6,285.1	6.2854	101			5	Proppant		20/40 Ottawa		166,814.0	lb	20/40		
6,470.1	6.4689	101			5	Proppant		40/70 Ottawa		2,264.0	lb	40/70		
6,596.1	6.5961	101			Interval 6									
6,783.1	6.7834	101			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment			
6,907.2	6.9074	101			6	3/5/2015	12,496.0	12,622.0	3509.02		pHaserFrac 22 XL Gel:2098 bbl; 22 Linear Gel:360 bbl; 15 % HCl:24 bbl; Slickwater:708 bbl; Wireline Fresh Water:289 bbl; Fresh Water:31 bbl			
7,090.9	7.0911	102			Stim/Treat Additives									
7,216.9	7.2160	101			Stg #	Add		Type		Amount	Units	Sand Size		
7,401.9	7.4015	101			6	Proppant		20/40 Ottawa		161,961.0	lb	20/40		
7,527.9	7.5278	101			6	Proppant		40/70 Ottawa		2,804.0	lb	40/70		
7,715.9	7.7159	101			Interval 7									
7,837.9	7.8370	101			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment			
8,023.0	8.0239	101			7	3/5/2015	12,309.0	12,436.0	3479.52		pHaserFrac 22 XL Gel:2116 bbl; 22 Linear Gel:331 bbl; 15 % HCl:24 bbl; Slickwater:693 bbl; Wireline Fresh Water:284 bbl; Fresh Water:31 bbl			
8,149.0	8.1490	101			Stim/Treat Additives									
8,333.0	8.3334	101			Stg #	Add		Type		Amount	Units	Sand Size		
8,460.0	8.4605	101			7	Proppant		20/40 Ottawa		168,463.0	lb	20/40		
8,644.0	8.6440	101			7	Proppant		40/70 Ottawa		2,975.0	lb	40/70		
8,772.0	8.7720	101			Interval 8									
8,955.1	8.9554	101			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment			
9,081.0	9.0810	101			8	3/5/2015	12,123.0	12,249.0	3435.81		pHaserFrac 22 XL Gel:2095 bbl; 22 Linear Gel:327 bbl; 15 % HCl:24 bbl; Slickwater:682 bbl; Wireline Fresh Water:275 bbl; Fresh Water:32 bbl			
9,265.1	9.2651	101			Stim/Treat Additives									
9,392.1	9.3921	101			Stg #	Add		Type		Amount	Units	Sand Size		
9,576.1	9.5761	101			8	Proppant		20/40 Ottawa		159,612.0	lb	20/40		
9,702.1	9.7021	101			8	Proppant		40/70 Ottawa		2,939.0	lb	40/70		
9,887.1	9.8871	101			Interval 9									
10,013.1	10.0131	101			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment			
10,194.9	10.1947	101			9	3/5/2015	11,939.0	12,069.0	3435.83		pHaserFrac 22 XL Gel:2129 bbl; 22 Linear Gel:312 bbl; 15 % HCl:24 bbl; Slickwater:678 bbl; Wireline Fresh Water:264 bbl; Fresh Water:28 bbl			
10,319.9	10.3199	101			Stim/Treat Additives									
10,507.9	10.5071	101			Stg #	Add		Type		Amount	Units	Sand Size		
10,633.9	10.6339	101			9	Proppant		20/40 Ottawa		162,295.0	lb	20/40		
10,817.9	10.8179	101			9	Proppant		40/70 Ottawa		3,074.0	lb	40/70		
10,944.9	10.9440	101			Interval 10									
11,124.0	11.1240	101			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment			
11,253.9	11.2539	101			10	3/5/2015	11,750.0	11,877.0	3407.26		pHaserFrac 22 XL Gel:2110 bbl; 22 Linear Gel:324 bbl; 15 % HCl:24 bbl; Slickwater:672 bbl; Wireline Fresh Water:255 bbl; Fresh Water:22 bbl			
11,440.0	11.4400	101			Stim/Treat Additives									
11,565.9	11.5659	101			Stg #	Add		Type		Amount	Units	Sand Size		
11,750.0	11.7500	101			10	Proppant		20/40 Ottawa		167,765.0	lb	20/40		
11,877.0	11.8770	101			10	Proppant		40/70 Ottawa		3,066.0	lb	40/70		
12,066.9	12.0669	101			Interval 11									
12,185.0	12.1850	101			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment			
12,372.0	12.3720	101			11	3/5/2015	11,564.0	11,690.0	3390.40		pHaserFrac 22 XL Gel:2087 bbl; 22 Linear Gel:344 bbl; 15 % HCl:24 bbl; Slickwater:670 bbl; Wireline Fresh Water:242 bbl; Fresh Water:24 bbl			
12,498.0	12.4980	101			Stim/Treat Additives									
12,682.1	12.6821	101			Stg #	Add		Type		Amount	Units	Sand Size		
12,808.1	12.8081	101			11	Proppant		20/40 Ottawa		162,516.0	lb	20/40		
12,987.9	12.9879	101			11	Proppant		40/70 Ottawa		3,038.0	lb	40/70		
13,117.1	13.1171	101												
13,303.1	13.3031	101												
13,430.1	13.4301	101												
13,578.7	13.5787	101												
13,676.5	13.6773	101												

Lease Review All - Frac Summary													
Well Name: HORSETAIL 30F-1944													
API Number		WPC ID		Well Permit Number		Field Name		County		State			
051233874100		1CO0761015				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			4,800.00		4,783.00						13,684.0		
Original Spud Date		Completion Date		Asset Group		Responsible Engineer		N/S Dist (ft)		N/S Ref		E/W Dist (ft)	
9/18/2014		3/9/2015		Redtail		Charles Ohlson		2,323.0		FNL		1,950.0	
FWL													
Lot		Quarter 1		Quarter 2		Quarter 3		Quarter 4		Section		Section Suffix	
		SE		NW						30			
Section Type		Township		Township N/S Dir		Range		Range E/W Dir		Meridian			
						10		N		57		W	
Lateral/Horizontal - Original Hole, 7/13/2015 9:52:57 AM													
Stim/Treat Stages													
Interval 12													
Stg #		Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment	
12		3/5/2015		11,378.0		11,504.0		3343.88				pHaserFrac 22 XL Gel:2098 bbl; 22 Linear Gel:335 bbl; 15 % HCl:0 bbl; Slickwater:669 bbl; Wireline Fresh Water:242 bbl; Fresh Water:0 bbl	
Stim/Treat Additives													
Stg #		Add		Type		Amount		Units		Sand Size			
12		Proppant		20/40 Ottawa		163,172.0		lb		20/40			
12		Proppant		40/70 Ottawa		3,966.0		lb		40/70			
Interval 13													
Stg #		Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment	
13		3/6/2015		11,191.0		11,317.0		3370.50				pHaserFrac 22 XL Gel:2146 bbl; 22 Linear Gel:333 bbl; 15 % HCl:0 bbl; Slickwater:665 bbl; Wireline Fresh Water:227 bbl; Fresh Water:0 bbl	
Stim/Treat Additives													
Stg #		Add		Type		Amount		Units		Sand Size			
13		Proppant		20/40 Ottawa		167,798.0		lb		20/40			
13		Proppant		40/70 Ottawa		3,254.0		lb		40/70			
Interval 14													
Stg #		Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment	
14		3/6/2015		11,005.0		11,126.0		3367.88				pHaserFrac 22 XL Gel:2097 bbl; 22 Linear Gel:331 bbl; 15 % HCl:0 bbl; Slickwater:685 bbl; Wireline Fresh Water:255 bbl; Fresh Water:0 bbl	
Stim/Treat Additives													
Stg #		Add		Type		Amount		Units		Sand Size			
14		Proppant		20/40 Ottawa		155,170.0		lb		20/40			
14		Proppant		40/70 Ottawa		2,208.0		lb		40/70			
Interval 15													
Stg #		Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment	
15		3/6/2015		10,818.0		10,945.0		3317.26				pHaserFrac 22 XL Gel:2089 bbl; 22 Linear Gel:345 bbl; 15 % HCl:0 bbl; Slickwater:663 bbl; Wireline Fresh Water:220 bbl; Fresh Water:0 bbl	
Stim/Treat Additives													
Stg #		Add		Type		Amount		Units		Sand Size			
15		Proppant		20/40 Ottawa		163,392.0		lb		20/40			
15		Proppant		40/70 Ottawa		1,952.0		lb		40/70			
Interval 16													
Stg #		Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment	
16		3/6/2015		10,632.0		10,758.0		3299.52				pHaserFrac 22 XL Gel:2127 bbl; 22 Linear Gel:299 bbl; 15 % HCl:0 bbl; Slickwater:657 bbl; Wireline Fresh Water:217 bbl; Fresh Water:0 bbl	
Stim/Treat Additives													
Stg #		Add		Type		Amount		Units		Sand Size			
16		Proppant		20/40 Ottawa		165,209.0		lb		20/40			
16		Proppant		40/70 Ottawa		3,143.0		lb		40/70			
Interval 17													
Stg #		Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment	
17		3/6/2015		10,446.0		10,572.0		3309.24				pHaserFrac 22 XL Gel:2181 bbl; 22 Linear Gel:271 bbl; 15 % HCl:0 bbl; Slickwater:652 bbl; Wireline Fresh Water:206 bbl; Fresh Water:0 bbl	
Stim/Treat Additives													
Stg #		Add		Type		Amount		Units		Sand Size			
17		Proppant		20/40 Ottawa		164,845.0		lb		20/40			
17		Proppant		40/70 Ottawa		2,610.0		lb		40/70			
Interval 18													
Stg #		Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment	
18		3/6/2015		10,259.0		10,386.0		3264.29				pHaserFrac 22 XL Gel:2125 bbl; 22 Linear Gel:299 bbl; 15 % HCl:0 bbl; Slickwater:651 bbl; Wireline Fresh Water:189 bbl; Fresh Water:0 bbl	
Stim/Treat Additives													
Stg #		Add		Type		Amount		Units		Sand Size			
18		Proppant		20/40 Ottawa		161,229.0		lb		20/40			
18		Proppant		40/70 Ottawa		2,744.0		lb		40/70			
Interval 19													
Stg #		Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment	
19		3/7/2015		10,077.0		10,197.0		3258.10				pHaserFrac 22 XL Gel:2131 bbl; 22 Linear Gel:298 bbl; 15 % HCl:0 bbl; Slickwater:650 bbl; Wireline Fresh Water:179 bbl; Fresh Water:0 bbl	
Stim/Treat Additives													
Stg #		Add		Type		Amount		Units		Sand Size			
19		Proppant		20/40 Ottawa		166,323.0		lb		20/40			
19		Proppant		40/70 Ottawa		2,628.0		lb		40/70			

MD (ftKB)	D (ft K B)	n ( K B)	Vertical schematic (actual)	Logs
1,435.0	1,427.9	12.9		
1,600.1	1,589.1	12.8		
3,182.1	3,191.4	13.4		
4,491.1	4,493.2	14.0		
5,012.8	4,994.4	14.4		
5,583.7	5,491.2	15.5		
5,655.2	5,480.9	16.2		
6,088.9	5,980.2	16.2		
6,159.1	5,980.7	16.3		
6,285.1	5,938.4	16.1		
6,470.1	5,938.9	16.2		
6,596.1	5,926.1	16.7		
6,783.1	5,938.4	16.4		
6,907.2	5,938.4	16.3		
7,090.9	5,920.7	16.2		
7,216.9	5,926.5	16.1		
7,401.9	5,938.5	16.4		
7,527.9	5,938.8	16.3		
7,715.9	5,938.2	16.2		
7,837.9	5,938.5	16.4		
8,023.0	5,938.9	16.3		
8,149.0	5,938.9	16.1		
8,333.0	5,927.4	16.1		
8,460.0	5,938.5	16.2		
8,644.0	5,938.0	16.1		
8,772.0	5,937.9	16.3		
8,955.1	5,926.4	16.4		
9,081.0	5,938.0	16.7		
9,265.1	5,927.4	16.4		
9,392.1	5,926.7	16.3		
9,576.1	5,940.2	16.3		
9,702.1	5,938.1	16.1		
9,887.1	5,938.0	16.7		
10,013.1	5,938.4	16.2		
10,194.9	5,926.7	16.7		
10,319.9	5,938.6	16.2		
10,507.9	5,938.1	16.3		
10,633.9	5,938.9	16.3		
10,817.9	5,938.5	16.3		
10,944.9	5,940.0	16.3		
11,124.0	5,940.2	16.3		
11,253.9	5,940.2	16.2		
11,440.0	5,938.6	16.1		
11,565.9	5,938.4	16.3		
11,750.0	5,938.8	16.3		
11,877.0	5,938.9	16.3		
12,066.9	5,927.0	16.1		
12,185.0	5,938.6	16.2		
12,372.0	5,938.9	16.3		
12,498.0	5,938.2	16.3		
12,682.1	5,938.9	16.3		
12,808.1	5,938.5	16.4		
12,987.9	5,938.4	16.3		
13,117.1	5,940.2	16.3		
13,303.1	5,940.0	16.3		
13,430.1	5,938.4	16.3		
13,578.7	5,940.2	16.4		
13,676.5	5,947.0	16.2		

Lease Review All - Frac Summary											
Well Name: HORSETAIL 30F-1944											
API Number		WPC ID		Well Permit Number		Field Name		County		State	
051233874100		1CO0761015				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			4,800.00		4,783.00						13,684.0
Original Spud Date		Completion Date		Asset Group		Responsible Engineer		N/S Dist (ft)		N/S Ref	E/W Dist (ft)
9/18/2014		3/9/2015		Redtail		Charles Ohlson		2,323.0		FNL	1,950.0
E/W Ref											
FWL											
Lot		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Section Suffix	Section Type	Township	Township N/S Dir	Range
		SE	NW			30			10	N	57
Range E/W Dir											
Meridian											
Lateral/Horizontal - Original Hole, 7/13/2015 9:53:00 AM											
Stim/Treat Stages											
Interval 20											
MD (ftKB)	D (ft KB)	n (ft KB)	c (ft KB)	l (ft KB)	Vertical schematic (actual)						
					Logs						
1,435.0	1,427.9	1,424.9	1,421.9	1,418.9							
1,600.1	1,593.1	1,590.1	1,587.1	1,584.1							
3,182.1	3,175.1	3,172.1	3,169.1	3,166.1							
4,491.1	4,484.1	4,481.1	4,478.1	4,475.1							
5,012.8	5,005.8	5,002.8	5,000.0	4,997.2							
5,583.7	5,576.7	5,573.7	5,570.7	5,567.7							
5,655.2	5,648.2	5,645.2	5,642.2	5,639.2							
6,088.9	6,081.9	6,078.9	6,075.9	6,072.9							
6,159.1	6,152.1	6,149.1	6,146.1	6,143.1							
6,285.1	6,278.1	6,275.1	6,272.1	6,269.1							
6,470.1	6,463.1	6,460.1	6,457.1	6,454.1							
6,596.1	6,589.1	6,586.1	6,583.1	6,580.1							
6,783.1	6,776.1	6,773.1	6,770.1	6,767.1							
6,907.2	6,900.2	6,897.2	6,894.2	6,891.2							
7,090.9	7,083.9	7,080.9	7,077.9	7,074.9							
7,216.9	7,209.9	7,206.9	7,203.9	7,200.9							
7,401.9	7,394.9	7,391.9	7,388.9	7,385.9							
7,527.9	7,520.9	7,517.9	7,514.9	7,511.9							
7,715.9	7,708.9	7,705.9	7,702.9	7,699.9							
7,837.9	7,830.9	7,827.9	7,824.9	7,821.9							
8,023.0	8,016.0	8,013.0	8,010.0	8,007.0							
8,149.0	8,142.0	8,139.0	8,136.0	8,133.0							
8,333.0	8,326.0	8,323.0	8,320.0	8,317.0							
8,460.0	8,453.0	8,450.0	8,447.0	8,444.0							
8,644.0	8,637.0	8,634.0	8,631.0	8,628.0							
8,772.0	8,765.0	8,762.0	8,759.0	8,756.0							
8,955.1	8,948.1	8,945.1	8,942.1	8,939.1							
9,081.0	9,074.0	9,071.0	9,068.0	9,065.0							
9,265.1	9,258.1	9,255.1	9,252.1	9,249.1							
9,392.1	9,385.1	9,382.1	9,379.1	9,376.1							
9,576.1	9,569.1	9,566.1	9,563.1	9,560.1							
9,702.1	9,695.1	9,692.1	9,689.1	9,686.1							
9,887.1	9,880.1	9,877.1	9,874.1	9,871.1							
10,013.1	10,006.1	10,003.1	10,000.1	9,997.1							
10,194.9	10,187.9	10,184.9	10,181.9	10,178.9							
10,319.9	10,312.9	10,309.9	10,306.9	10,303.9							
10,507.9	10,500.9	10,497.9	10,494.9	10,491.9							
10,633.9	10,626.9	10,623.9	10,620.9	10,617.9							
10,817.9	10,810.9	10,807.9	10,804.9	10,801.9							
10,944.9	10,937.9	10,934.9	10,931.9	10,928.9							
11,124.0	11,117.0	11,114.0	11,111.0	11,108.0							
11,253.9	11,246.9	11,243.9	11,240.9	11,237.9							
11,440.0	11,433.0	11,430.0	11,427.0	11,424.0							
11,565.9	11,558.9	11,555.9	11,552.9	11,549.9							
11,750.0	11,743.0	11,740.0	11,737.0	11,734.0							
11,877.0	11,870.0	11,867.0	11,864.0	11,861.0							
12,066.9	12,059.9	12,056.9	12,053.9	12,050.9							
12,185.0	12,178.0	12,175.0	12,172.0	12,169.0							
12,372.0	12,365.0	12,362.0	12,359.0	12,356.0							
12,498.0	12,491.0	12,488.0	12,485.0	12,482.0							
12,682.1	12,675.1	12,672.1	12,669.1	12,666.1							
12,808.1	12,801.1	12,798.1	12,795.1	12,792.1							
12,987.9	12,980.9	12,977.9	12,974.9	12,971.9							
13,117.1	13,110.1	13,107.1	13,104.1	13,101.1							
13,303.1	13,296.1	13,293.1	13,290.1	13,287.1							
13,430.1	13,423.1	13,420.1	13,417.1	13,414.1							
13,578.7	13,571.7	13,568.7	13,565.7	13,562.7							
13,676.5	13,669.5	13,666.5	13,663.5	13,660.5							
Stim/Treat Additives											
Stg #	Add		Type		Amount		Units		Sand Size		
20	Proppant		20/40 Ottawa		160,929.0		lb		20/40		
20	Proppant		40/70 Ottawa		3,147.0		lb		40/70		
Interval 21											
Stg #	Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment
21	3/7/2015		9,700.0		9,821.0		3251.79				pHaserFrac 22 XL Gel:2106 bbl; 22 Linear Gel:335 bbl; 15 % HCl:0 bbl; Slickwater:645 bbl; Wireline Fresh Water:170 bbl; Fresh Water:0 bbl
Stim/Treat Additives											
Stg #	Add		Type		Amount		Units		Sand Size		
21	Proppant		20/40 Ottawa		163,298.0		lb		20/40		
21	Proppant		40/70 Ottawa		3,178.0		lb		40/70		
Interval 22											
Stg #	Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment
22	3/7/2015		9,512.0		9,640.0		3276.02				pHaserFrac 22 XL Gel:2104 bbl; 22 Linear Gel:353 bbl; 15 % HCl:0 bbl; Slickwater:650 bbl; Wireline Fresh Water:169 bbl; Fresh Water:0 bbl
Stim/Treat Additives											
Stg #	Add		Type		Amount		Units		Sand Size		
22	Proppant		20/40 Ottawa		164,136.0		lb		20/40		
22	Proppant		40/70 Ottawa		2,964.0		lb		40/70		
Interval 23											
Stg #	Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment
23	3/7/2015		9,327.0		9,454.0		3226.24				pHaserFrac 22 XL Gel:2104 bbl; 22 Linear Gel:322 bbl; 15 % HCl:0 bbl; Slickwater:641 bbl; Wireline Fresh Water:159 bbl; Fresh Water:0 bbl
Stim/Treat Additives											
Stg #	Add		Type		Amount		Units		Sand Size		
23	Proppant		20/40 Ottawa		158,940.0		lb		20/40		
23	Proppant		40/70 Ottawa		2,750.0		lb		40/70		
Interval 24											
Stg #	Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment
24	3/7/2015		9,141.0		9,267.0		3224.95				pHaserFrac 22 XL Gel:2104 bbl; 22 Linear Gel:329 bbl; 15 % HCl:0 bbl; Slickwater:639 bbl; Wireline Fresh Water:153 bbl; Fresh Water:0 bbl
Stim/Treat Additives											
Stg #	Add		Type		Amount		Units		Sand Size		
24	Proppant		20/40 Ottawa		161,724.0		lb		20/40		
24	Proppant		40/70 Ottawa		3,185.0		lb		40/70		
Interval 25											
Stg #	Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment
25	3/7/2015		8,955.0		9,081.0		3216.48				pHaserFrac 22 XL Gel:2145 bbl; 22 Linear Gel:298 bbl; 15 % HCl:0 bbl; Slickwater:630 bbl; Wireline Fresh Water:144 bbl; Fresh Water:0 bbl
Stim/Treat Additives											
Stg #	Add		Type		Amount		Units		Sand Size		
25	Proppant		20/40 Ottawa		159,648.0		lb		20/40		
25	Proppant		40/70 Ottawa		3,195.0		lb		40/70		
Interval 26											
Stg #	Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment
26	3/7/2015		8,770.0		8,892.0		3195.88				pHaserFrac 22 XL Gel:2142 bbl; 22 Linear Gel:297 bbl; 15 % HCl:0 bbl; Slickwater:626 bbl; Wireline Fresh Water:130 bbl; Fresh Water:0 bbl
Stim/Treat Additives											
Stg #	Add		Type		Amount		Units		Sand Size		
26	Proppant		20/40 Ottawa		160,751.0		lb		20/40		
26	Proppant		40/70 Ottawa		3,005.0		lb		40/70		
Interval 27											
Stg #	Start Date		Top (ftKB)		Btm (ftKB)		Vol Clean...		Vol Slurry...		Comment
27	3/7/2015		8,580.0		8,708.0		3224.07				pHaserFrac 22 XL Gel:2142 bbl; 22 Linear Gel:308 bbl; 15 % HCl:0 bbl; Slickwater:641 bbl; Wireline Fresh Water:134 bbl; Fresh Water:0 bbl
Stim/Treat Additives											
Stg #	Add		Type		Amount		Units		Sand Size		
27	Proppant		20/40 Ottawa		156,518.0		lb		20/40		
27	Proppant		40/70 Ottawa		2,836.0		lb		40/70		

Lease Review All - Frac Summary												
Well Name: HORSETAIL 30F-1944												
API Number		WPC ID		Well Permit Number		Field Name		County		State		
051233874100		1CO0761015				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		4,800.00		4,783.00						13,684.0		
Original Spud Date		Completion Date		Asset Group		Responsible Engineer		N/S Dist (ft)		N/S Ref		
9/18/2014		3/9/2015		Redtail		Charles Ohlson		2,323.0		FNL		
E/W Dist (ft)		E/W Ref										
1,950.0		FWL										
Lot		Quarter 1		Quarter 2		Quarter 3		Quarter 4		Section		
		SE		NW						30		
Section Suffix		Section Type		Township		Township N/S Dir		Range		Range E/W Dir		
						10 N		57		W		
Meridian												



Lease Review All - Frac Summary

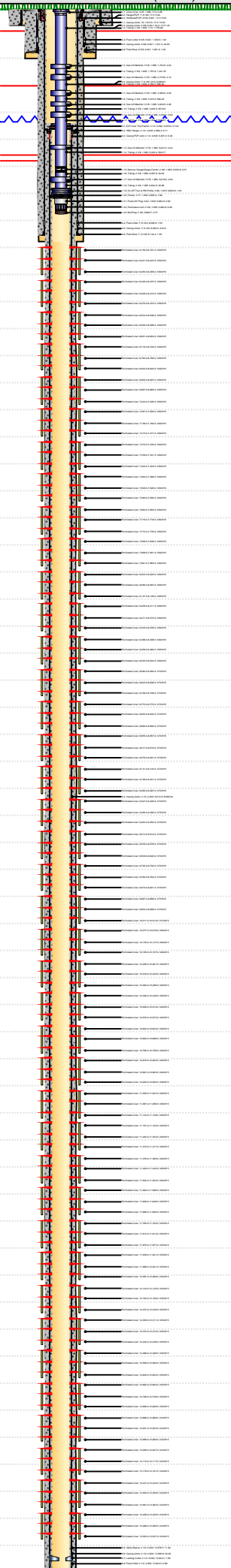
Well Name: HORSETAIL 30F-1944

API Number 051233874100		WPC ID 1CO0761015		Well Permit Number		Field Name DJ Horizontal Niobrara			County Weld			State CO	
Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 4,800.00	Ground Elevation (ft) 4,783.00	Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ft)KB 13,684.0			
Original Spud Date 9/18/2014		Completion Date 3/9/2015		Asset Group Redtail		Responsible Engineer Charles Ohlson			N/S Dist (ft) 2,323.0		N/S Ref FNL	E/W Dist (ft) 1,950.0	E/W Ref FWL
Lot	Quarter 1 SE	Quarter 2 NW	Quarter 3	Quarter 4	Section 30	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 57	Range E/W Dir W	Meridian	

Lateral/Horizontal - Original Hole, 7/13/2015 9:53:05 AM										Stim/Treat Stages					
MD (ftKB)	D (ft K B)	n c l (	Vertical schematic (actual)	Logs	Interval 36										
					Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
1,435.0	1.4373	123			36	3/8/2015	6,905.0	7,026.0	3048.36		pHaserFrac 22 XL Gel:1780 bbl; 22 Linear Gel:298 bbl; 15 % HCl:0 bbl; Slickwater:914 bbl; Wireline Fresh Water:56 bbl; Fresh Water:0 bbl				
1,600.1	1.5981	123			Stim/Treat Additives										
3,182.1	3.1714	112			Stg #	Add	Type		Amount	Units	Sand Size				
4,491.1	4.4713	12			36	Proppant	20/40 Ottawa		89,703.0	lb	20/40				
5,012.8	5.0064	12			36	Proppant	40/70 Ottawa		3,003.0	lb	40/70				
5,583.7	5.4512	123			Interval 37										
5,655.2	5.4504	86.2			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
6,088.9	6.0802	86.2			37	3/9/2015	6,718.0	6,844.0	3241.36		pHaserFrac 22 XL Gel:2255 bbl; 22 Linear Gel:333 bbl; 15 % HCl:0 bbl; Slickwater:608 bbl; Wireline Fresh Water:46 bbl; Fresh Water:0 bbl				
6,159.1	6.0807	86.4			Stim/Treat Additives										
6,285.1	6.0804	86.1			Stg #	Add	Type		Amount	Units	Sand Size				
6,470.1	6.0809	86.1			37	Proppant	20/40 Ottawa		205,414.0	lb	20/40				
6,596.1	6.0801	86.1			37	Proppant	40/70 Ottawa		4,214.0	lb	40/70				
6,783.1	6.0804	86.1			Interval 38										
6,907.2	6.0804	86.2			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
7,090.9	6.0801	86.2			38	3/9/2015	6,534.0	6,653.0	3466.29		pHaserFrac 22 XL Gel:2218 bbl; 22 Linear Gel:567 bbl; 15 % HCl:0 bbl; Slickwater:635 bbl; Wireline Fresh Water:47 bbl; Fresh Water:0 bbl				
7,216.9	6.0801	86.1			Stim/Treat Additives										
7,401.9	6.0801	86.4			Stg #	Add	Type		Amount	Units	Sand Size				
7,527.9	6.0808	86.1			38	Proppant	20/40 Ottawa		188,008.0	lb	20/40				
7,715.9	6.0801	86.2			38	Proppant	40/70 Ottawa		3,347.0	lb	40/70				
7,837.9	6.0801	86.4			Interval 39										
8,023.0	6.0809	86.4			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
8,149.0	6.0809	86.1			39	3/9/2015	6,345.0	6,472.0	3022.74		pHaserFrac 22 XL Gel:2069 bbl; 22 Linear Gel:330 bbl; 15 % HCl:0 bbl; Slickwater:590 bbl; Wireline Fresh Water:34 bbl; Fresh Water:0 bbl				
8,333.0	6.0804	86.1			Stim/Treat Additives										
8,460.0	6.0801	86.2			Stg #	Add	Type		Amount	Units	Sand Size				
8,644.0	6.0801	86.1			39	Proppant	20/40 Ottawa		162,607.0	lb	20/40				
8,772.0	6.0808	86.2			39	Proppant	40/70 Ottawa		2,603.0	lb	40/70				
8,955.1	6.0804	86.4			Interval 40										
9,081.0	6.0801	86.2			Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment				
9,265.1	6.0804	86.4			40	3/9/2015	6,159.0	6,285.0	2929.60		pHaserFrac 22 XL Gel:2009 bbl; 22 Linear Gel:351 bbl; 15 % HCl:0 bbl; Slickwater:542 bbl; Wireline Fresh Water:27 bbl; Fresh Water:0 bbl				
9,392.1	6.0807	86.5			Stim/Treat Additives										
9,576.1	6.0802	86.4			Stg #	Add	Type		Amount	Units	Sand Size				
9,702.1	6.0801	86.1			40	Proppant	20/40 Ottawa		148,391.0	lb	20/40				
9,887.1	6.0802	86.1			40	Proppant	40/70 Ottawa		2,547.0	lb	40/70				
10,013.1	6.0804	86.2			Tubing - Production set at 5,670.5ftKB on 4/10/2015 06:00										
10,194.9	6.0807	86.7			Set Depth (ftKB)	Comment					Run Date	Pull Date			
10,319.9	6.0808	86.1			5,670.5						4/10/2015				
10,507.9	6.0801	86.1			Item Des	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)					
10,633.9	6.0808	86.2			Cross Over	3.05	1.995	0.85	17.0	17.8					
10,817.9	6.0803	86.1			Tubing	2 3/8	1.995	1,735.69	17.8	1,753.5					
10,944.9	6.0801	86.1			Gas Lift Mandrel	3 7/8	1.995	4.04	1,753.5	1,757.6					
11,124.0	6.0802	86.2			Tubing	2 3/8	1.995	1,021.97	1,757.6	2,779.6					
11,253.9	6.0802	86.2			Gas Lift Mandrel	3 7/8	1.995	4.10	2,779.6	2,783.7					
11,440.0	6.0804	86.4			Tubing	2 3/8	1.995	585.32	2,783.7	3,369.0					
11,565.9	6.0804	86.4			Gas Lift Mandrel	3 7/8	1.995	4.05	3,369.0	3,373.0					
11,750.0	6.0808	86.2			Tubing	2 3/8	1.995	556.45	3,373.0	3,929.5					
11,877.0	6.0804	86.4			Gas Lift Mandrel	3 7/8	1.995	4.08	3,929.5	3,933.6					
12,066.9	6.0801	86.1			Tubing	2 3/8	1.995	557.64	3,933.6	4,491.2					
12,185.0	6.0804	86.2			Gas Lift Mandrel	3 7/8	1.995	4.08	4,491.2	4,495.3					
12,372.0	6.0809	86.5			Tubing	2 3/8	1.995	525.69	4,495.3	5,021.0					
12,498.0	6.0801	86.1			Gas Lift Mandrel	3 7/8	1.995	4.04	5,021.0	5,025.0					
12,682.1	6.0809	86.9			Tubing	2 3/8	1.995	558.77	5,025.0	5,583.8					
12,808.1	6.0801	86.1			Memory Gauge/Gauge Carrier	2 3/8	1.995	4.07	5,583.8	5,587.8					
12,987.9	6.0808	86.2			Tubing	2 3/8	1.995	30.94	5,587.8	5,618.8					
13,117.1	6.0801	86.1			Gas Lift Mandrel	3 7/8	1.995	4.08	5,618.8	5,622.9					
13,303.1	6.0801	86.1			Tubing	2 3/8	1.995	30.96	5,622.9	5,653.8					
13,430.1	6.0804	86.4			On-Off Tool w/ RN Profile	3.65	1.870	1.35	5,653.8	5,655.2					
13,578.7	6.0801	86.1			Packer	3.771	1.930	7.68	5,655.2	5,662.9					
13,678.5	6.0801	86.1			Pump Off Plug	2.622	1.500	0.80	5,662.9	5,663.7					
					Perforated Joint	2 3/8	1.995	6.06	5,663.7	5,669.7					
			Bull Plug	2 3/8		0.77	5,669.7	5,670.5							



API Number 051233874100		WPC ID 1CO0761015			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO	
Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 4,800.00		Ground Elevation (ft) 4,783.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 13,684.0		
Original Spud Date 9/18/2014		Completion Date 3/9/2015		Asset Group Redtail			Responsible Engineer Charles Ohlson			N/S Dist (ft) 2,323.0		N/S Ref FNL	E/W Dist (ft) 1,950.0	E/W Ref FWL
Lot	Quarter 1 SE	Quarter 2 NW	Quarter 3	Quarter 4	Section 30	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 57	Range E/W Dir W	Meridian		

Lateral/Horizontal - Original Hole, 7/13/2015 9:53:08 AM					Rod Strings						
MD (ftKB)	D (ft K B)	n c l (	Vertical schematic (actual)	Logs	<des> on <dtmrun>						
					Rod Description		Run Date		Pull Date		
					Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)		
1,435.0	1,437.9	124			Other Strings						
1,600.1	1,599.1	124		Set Depth (ftKB)	Comment			Run Date		Pull Date	
3,182.1	3,197.4	114				Item Des	OD (in)	Len (ft)		Top (ftKB)	Btm (ftKB)
4,491.1	4,493.3	14				Other In Hole					
5,012.8	4,994.4	31				Des	OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)
5,583.7	5,494.2	443				CFP	4	3/9/2015	4/5/2015	6,317.0	6,319.0
5,655.2	4,486.6	93				CFP	4	3/9/2015	4/5/2015	6,501.0	6,503.0
6,088.9	5,632.2	367				CFP	4	3/9/2015	4/5/2015	6,687.0	6,689.0
6,159.1	5,627.7	367				CFP	4	3/9/2015	4/5/2015	6,873.0	6,875.0
6,285.1	5,632.4	311				CFP	4	3/8/2015	4/5/2015	7,060.0	7,062.0
6,470.1	5,638.8	364				CFP	4	3/8/2015	4/5/2015	7,246.0	7,248.0
6,596.1	5,636.1	367				CFP	4	3/8/2015	4/5/2015	7,433.0	7,435.0
6,783.1	5,626.4	367				CFP	4	3/8/2015	4/5/2015	7,613.0	7,615.0
6,907.2	5,636.4	312				CFP	4	3/8/2015	4/5/2015	7,805.0	7,807.0
7,090.9	5,638.1	312				CFP	4	3/8/2015	4/5/2015	7,992.0	7,994.0
7,216.9	5,638.5	361				CFP	4	3/8/2015	4/5/2015	8,178.0	8,180.0
7,401.9	5,632.2	361				CFP	4	3/8/2015	4/5/2015	8,364.0	8,366.0
7,527.9	5,638.9	364				CFP	4	3/7/2015	4/6/2015	8,551.0	8,553.0
7,715.9	5,638.6	361				CFP	4	3/7/2015	4/6/2015	8,737.0	8,739.0
7,837.9	5,638.5	364				CFP	4	3/7/2015	4/6/2015	8,924.0	8,926.0
8,023.0	5,633.9	361			CFP	4	3/7/2015	4/6/2015	9,110.0	9,112.0	
8,149.0	5,633.9	361			CFP	4	3/7/2015	4/6/2015	9,300.0	9,302.0	
8,333.0	5,627.4	361			CFP	4	3/7/2015	4/6/2015	9,483.0	9,485.0	
8,460.0	5,636.5	312			CFP	4	3/7/2015	4/6/2015	9,669.0	9,671.0	
8,644.0	5,638.2	311			CFP	4	3/7/2015	4/6/2015	9,856.0	9,858.0	
8,772.0	5,627.8	312			CFP	4	3/6/2015	4/6/2015	10,042.0	10,044.0	
8,955.1	5,636.4	314			CFP	4	3/6/2015	4/6/2015	10,228.0	10,230.0	
9,081.0	5,632.2	317			CFP	4	3/6/2015	4/6/2015	10,415.0	10,417.0	
9,265.1	5,627.4	361			CFP	4	3/6/2015	4/6/2015	10,601.0	10,603.0	
9,392.1	5,624.7	367			CFP	4	3/6/2015	4/6/2015	10,783.0	10,785.0	
9,576.1	5,640.2	364			CFP	4	3/6/2015	4/6/2015	10,974.0	10,976.0	
9,702.1	5,638.1	311			CFP	4	3/6/2015	4/6/2015	11,160.0	11,162.0	
9,887.1	5,638.2	367			CFP	4	3/6/2015	4/6/2015	11,349.0	11,351.0	
10,013.1	5,638.4	312			CFP	4	3/6/2015	4/6/2015	11,533.0	11,535.0	
10,194.9	5,634.7	367			CFP	4	3/5/2015	4/6/2015	11,717.0	11,719.0	
10,319.9	5,634.6	367			CFP	4	3/5/2015	4/6/2015	11,906.0	11,908.0	
10,507.9	5,638.1	364			CFP	4	3/5/2015	4/6/2015	12,092.0	12,094.0	
10,633.9	5,638.0	361			CFP	4	3/4/2015	4/6/2015	12,281.0	12,283.0	
10,817.9	5,638.3	361			CFP	4	3/4/2015	4/6/2015	12,465.0	12,467.0	
10,944.9	5,640.2	361			CFP	4	3/4/2015	4/6/2015	12,651.0	12,653.0	
11,124.0	5,640.2	361			CFP	4	3/4/2015	4/6/2015	12,838.0	12,840.0	
11,253.9	5,638.2	361			CFP	4	3/4/2015	4/6/2015	13,024.0	13,026.0	
11,440.0	5,635.6	361			CFP	4	3/4/2015	4/6/2015	13,215.0	13,217.0	
11,565.9	5,635.4	361			CFP	4	3/4/2015	4/6/2015	13,397.0	13,399.0	
11,750.0	5,638.8	361			CFP	4	3/4/2015	4/6/2015	13,554.0	13,556.0	
11,877.0	5,638.6	361			Bottom Hole Cores						
12,066.9	5,627.2	367			Date	Core #	Top (ftKB)	Btm (ftKB)	Recov (ft)		
12,185.0	5,638.6	312									
12,372.0	5,638.9	361									
12,498.0	5,638.5	364									
12,682.1	5,626.9	362									
12,808.1	5,634.5	314									
12,987.9	5,634.4	361									
13,117.1	5,634.3	361									
13,303.1	5,632.2	362									
13,430.1	5,633.4	314									
13,578.7	5,632.2	314									
13,676.5	5,627.3	314									