

PT - Completion Report - CR																	
Well Name: HORSETAIL 07-0611H																	
API Number 051233664700			WPC ID 1CO076881		Well Permit Number			Field Name DJ Horizontal Niobrara		County Weld		State CO	N/S Dist (ft) 2,450.0	N/S Ref FNL	E/W Dist (ft) 660.0	E/W Ref FWL	
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,943.00		Gr Elev (ft) 4,925.70		Total Depth (ftKB) 12,740.0		Original Spud Date 5/20/2013		Completion Date 10/6/2013		First Production Date 10/10/2013		
Asset Group Redtail Asset Group					Responsible Engineer Gary Nordlander			Responsible Foreman Mike Staab			Responsible Drilling Ben Betts		Responsible Geology Mark Odegard		Responsible Land Scott McDaniel		
Lot 2		Quarter 1		Quarter 2		Quarter 3		Quarter 4		Section 7	Township 10	Township N/S Dir N	Range 57	Range E/W Dir W	Meridian 6TH		
Lateral/Horizontal - Original Hole, 1/9/2014 11:42:35 AM								Rigs									
Contractor Cade Drilling		Rig # 21		Rig Type Drilling		Rig Start Date 5/19/2013		RR Date 5/30/2013		TD (ft) 12,740.00		TD Date					
Wellbore Sections																	
Section Des		Wellbore Name		Size (in)		Act Top (ftKB)		Act Btm (ftKB)		Start Date		End Date					
Conductor		Original Hole		24		17.3		80.0		5/19/2013		5/19/2013					
Surface		Original Hole		13 1/2		80.0		1,935.0		5/20/2013		5/21/2013					
Intermediate		Original Hole		8 3/4		1,935.0		6,170.0		5/22/2013		5/23/2013					
Lateral		Original Hole		6		6,170.0		12,740.0		5/24/2013		5/28/2013					
Casing																	
Conductor Pipe, 80.0ftKB																	
Comment												Run Date 5/19/2013		Pull Date			
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des					
16		65.00		H-40		17.3		80.0		62.70		Casing Joints					
Surface Csg, 1,915.7ftKB																	
Comment 1 basket												Run Date 5/21/2013		Pull Date			
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des					
9 5/8		36.00		J-55		17.3		17.3		0.00		Landing Joint					
9 5/8		36.00		J-55		17.3		19.3		2.00		Wellhead					
9 5/8		36.00		J-55		19.3		25.3		6.00		Pup Joint					
9 5/8		36.00		J-55		25.3		1,868.7		1,843.45		Casing Joints					
9 5/8		36.00		J-55		1,868.7		1,870.2		1.50		Float Collar					
9 5/8		36.00		J-55		1,870.2		1,914.2		43.98		Casing Joints					
9 5/8		36.00		J-55		1,914.2		1,915.7		1.50		Float Shoe					
Frac String, 5,197.0ftKB																	
Comment												Run Date 6/17/2013		Pull Date 10/29/2013			
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des					
						-7.8		-7.2		0.60		Casing Hanger					
4 1/2		11.60		P-110		-7.2		37.2		44.49		Casing Joints					
4 1/2		11.60		P-110		37.2		41.2		4.00		Casing PUP Joint					
4 1/2		11.60		P-110		41.2		47.2		6.00		Casing PUP Joint					
4 1/2		11.60		P-110		47.2		55.2		8.00		Casing PUP Joint					
4 1/2		11.60		P-110		55.2		63.2		8.00		Casing PUP Joint					
4 1/2		11.60		P-110		63.2		5,179.9		5,116.70		Casing Joints					
4 1/2		11.60		P-110		5,179.9		5,187.3		7.38		Casing PUP Joint					
5 3/4						5,187.3		5,197.0		9.68		Baker Seal Assembly					
Intermediate Csg, 6,160.5ftKB																	
Comment												Run Date 5/24/2013		Pull Date			
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des					
7		29.00		HCL-80		17.3		17.3		0.00		Landing Joint					
7		29.00		HCL-80		17.3		19.3		2.00		Casing Hanger					
7		29.00		HCL-80		19.3		23.3		4.00		PUP					
7		29.00		HCL-80		23.3		6,119.5		6,096.18		Casing Joints					
7		29.00		HCP-110		6,119.5		6,121.0		1.50		Float Collar					
7		29.00		HCL-80		6,121.0		6,158.5		37.50		Casing Joints					
7		29.00		HCP-110		6,158.5		6,160.5		2.00		Float Shoe					
Liner, 12,730.0ftKB																	
Comment												Run Date 5/30/2013		Pull Date			
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des					
4 1/2		11.60		L-80		5,184.0		5,184.0		0.00		Casing Joints					
4 1/2		11.60		P-110		5,184.0		5,195.5		11.56		TIEBACK EXTENSION					
4 1/2		11.60		P-110		5,195.5		5,204.8		9.32		ZXP LINER TOP PACKER					
4 1/2		11.60		P-110		5,204.8		5,211.6		6.79		HMC LINER HANGER					
4 1/2		11.60		L-80		5,211.6		6,319.1		1,107.48		Casing Joints					
4 1/2		11.60		P-110		6,319.1		6,331.2		12.10		Swell Packer					
4 1/2		11.60		L-80		6,331.2		6,452.2		120.98		Casing Joints					
4 1/2		11.60		P-110		6,452.2		6,464.3		12.09		Swell Packer					
4 1/2		11.60		L-80		6,464.3		6,633.4		169.08		Casing Joints					
4 1/2		11.60		P-110		6,633.4		6,645.5		12.09		Swell Packer					
4 1/2		11.60		L-80		6,645.5		6,814.0		168.52		Casing Joints					
4 1/2		11.60		P-110		6,814.0		6,826.1		12.08		Swell Packer					
4 1/2		11.60		L-80		6,826.1		6,991.0		164.95		Casing Joints					
4 1/2		11.60		P-110		6,991.0		7,003.1		12.08		Swell Packer					
4 1/2		11.60		L-80		7,003.1		7,174.5		171.38		Casing Joints					
4 1/2		11.60		P-110		7,174.5		7,186.6		12.09		Swell Packer					
4 1/2		11.60		L-80		7,186.6		7,356.6		170.03		Casing Joints					
4 1/2		11.60		P-110		7,356.6		7,368.7		12.09		Swell Packer					
4 1/2		11.60		L-80		7,368.7		7,533.2		164.56		Casing Joints					
4 1/2		11.60		P-110		7,533.2		7,545.3		12.08		Swell Packer					
4 1/2		11.60		L-80		7,545.3		7,716.0		170.71		Casing Joints					
4 1/2		11.60		P-110		7,716.0		7,728.1		12.10		Swell Packer					
4 1/2		11.60		L-80		7,728.1		7,895.9		167.74		Casing Joints					



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MD (ftKB)	TV D (ftKB B)	n cl (°)	Vertical schematic (actual)	Logs	4 1/2	11.60	P-110	7,895.9	7,908.0	12.10	Swell Packer
25.3	25.3	1.1			4 1/2	11.60	L-80	7,908.0	8,072.4	164.40	Casing Joints
58.4	58.4	1.1	4 1/2	11.60	P-110	8,072.4	8,084.5	12.09	Swell Packer		
1,915.7	1,914.9	1.9	4 1/2	11.60	L-80	8,084.5	8,251.6	167.13	Casing Joints		
5,184.1	5,182.7	0.4	4 1/2	11.60	P-110	8,251.6	8,263.7	12.08	Swell Packer		
5,279.9	5,278.5	1.2	4 1/2	11.60	L-80	8,263.7	8,435.1	171.43	Casing Joints		
6,169.9	5,948.1	90.1	4 1/2	11.60	P-110	8,435.1	8,447.2	12.09	Swell Packer		
6,319.2	5,947.0	99.9	4 1/2	11.60	L-80	8,447.2	8,618.6	171.46	Casing Joints		
6,410.1	5,947.1	99.9	4 1/2	11.60	P-110	8,618.6	8,630.7	12.08	Swell Packer		
6,569.9	5,948.4	90.1	4 1/2	11.60	L-80	8,630.7	8,802.2	171.46	Casing Joints		
6,713.9	5,948.8	99.9	4 1/2	11.60	P-110	8,802.2	8,814.3	12.08	Swell Packer		
6,886.2	5,950.6	98.7	4 1/2	11.60	L-80	8,814.3	8,990.4	176.18	Casing Joints		
7,003.0	5,952.9	99.9	4 1/2	11.60	P-110	8,990.4	9,002.5	12.08	Swell Packer		
7,174.5	5,951.9	98.9	4 1/2	11.60	L-80	9,002.5	9,181.4	178.87	Casing Joints		
7,294.0	5,953.1	99.2	4 1/2	11.60	P-110	9,181.4	9,193.5	12.08	Swell Packer		
7,470.1	5,954.8	99.2	4 1/2	11.60	L-80	9,193.5	9,374.3	180.79	Casing Joints		
7,609.9	5,954.4	99.9	4 1/2	11.60	P-110	9,374.3	9,386.4	12.10	Swell Packer		
7,790.0	5,955.5	99.6	4 1/2	11.60	L-80	9,386.4	9,561.0	174.67	Casing Joints		
7,907.8	5,958.4	98.5	4 1/2	11.60	P-110	9,561.0	9,573.1	12.08	Swell Packer		
8,072.5	5,959.9	91.0	4 1/2	11.60	L-80	9,573.1	9,742.5	169.36	Casing Joints		
8,193.9	5,956.6	90.1	4 1/2	11.60	P-110	9,742.5	9,754.6	12.09	Swell Packer		
8,370.1	5,954.3	91.8	4 1/2	11.60	L-80	9,754.6	9,921.5	166.98	Casing Joints		
8,509.8	5,951.2	99.6	4 1/2	11.60	P-110	9,921.5	9,933.7	12.11	Swell Packer		
8,690.0	5,949.0	99.9	4 1/2	11.60	L-80	9,933.7	10,100.5	166.86	Casing Joints		
8,814.3	5,949.0	99.7	4 1/2	11.60	P-110	10,100.5	10,112.6	12.10	Swell Packer		
8,990.5	5,948.2	99.5	4 1/2	11.60	L-80	10,112.6	10,279.0	166.36	Casing Joints		
9,120.1	5,947.1	99.5	4 1/2	11.60	P-110	10,279.0	10,291.1	12.10	Swell Packer		
9,310.0	5,949.3	99.9	4 1/2	11.60	L-80	10,291.1	10,459.2	168.10	Casing Joints		
9,454.1	5,951.0	99.2	4 1/2	11.60	P-110	10,459.2	10,471.3	12.11	Swell Packer		
9,629.9	5,949.9	99.0	4 1/2	11.60	L-80	10,471.3	10,632.9	161.61	Casing Joints		
9,754.6	5,946.4	91.6	4 1/2	11.60	P-110	10,632.9	10,645.0	12.09	Swell Packer		
9,921.6	5,940.5	90.1	4 1/2	11.60	L-80	10,645.0	10,808.6	163.58	Casing Joints		
10,171.9	5,944.0	99.5	4 1/2	11.60	P-110	10,808.6	10,820.7	12.11	Swell Packer		
10,350.1	5,939.8	91.2	4 1/2	11.60	L-80	10,820.7	10,933.2	112.51	Casing Joints		
10,471.1	5,938.1	99.7	4 1/2	11.60	P-110	10,933.2	10,945.3	12.11	Swell Packer		
10,632.9	5,939.3	99.6	4 1/2	11.60	L-80	10,945.3	11,073.9	128.62	Casing Joints		
10,744.1	5,939.3	99.2	4 1/2	11.60	P-110	11,073.9	11,086.0	12.11	Swell Packer		
10,883.9	5,940.5	99.6	4 1/2	11.60	L-80	11,086.0	11,210.9	124.89	Casing Joints		
10,982.0	5,941.1	99.8	4 1/2	11.60	P-110	11,210.9	11,223.0	12.09	Swell Packer		
11,118.1	5,943.7	99.5	4 1/2	11.60	L-80	11,223.0	11,349.2	126.20	Casing Joints		
11,223.1	5,945.5	99.3	4 1/2	11.60	P-110	11,349.2	11,361.3	12.10	Swell Packer		
11,349.1	5,947.6	99.9	4 1/2	11.60	L-80	11,361.3	11,480.9	119.62	Casing Joints		
11,428.1	5,948.9	99.3	4 1/2	11.60	P-110	11,480.9	11,493.0	12.09	Swell Packer		
11,562.0	5,950.1	99.7	4 1/2	11.60	L-80	11,493.0	11,618.1	125.11	Casing Joints		
11,664.0	5,946.6	99.8	4 1/2	11.60	P-110	11,618.1	11,630.2	12.11	Swell Packer		
11,795.9	5,949.9	99.2	4 1/2	11.60	L-80	11,630.2	11,756.8	126.59	Casing Joints		
11,904.9	5,951.3	99.5	4 1/2	11.60	P-110	11,756.8	11,768.9	12.10	Swell Packer		
12,033.8	5,952.2	99.4	4 1/2	11.60	L-80	11,768.9	11,892.9	123.97	Casing Joints		
12,118.1	5,951.5	99.4	4 1/2	11.60	P-110	11,892.9	11,905.0	12.10	Swell Packer		
12,259.8	5,952.2	99.3	4 1/2	11.60	L-80	11,905.0	12,033.7	128.66	Casing Joints		
12,350.1	5,950.9	99.3									
12,490.2	5,952.0	99.3									
12,599.4	5,952.9	99.3									
12,683.7	5,952.1	99.6									



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MD (ftKB)	TV D (ftKB B)	n cl (°)									
			Vertical schematic (actual)	Logs							
25.3	25.3	1.1									
58.4	58.4	1.1									
1,915.7	1,914.9	1.9									
5,184.1	5,182.7	0.4									
5,279.9	5,278.5	1.2									
6,169.9	5,948.1	90.1									
6,319.2	5,947.0	98.9									
6,410.1	5,947.1	99.9									
6,569.9	5,948.4	90.1									
6,713.9	5,948.8	98.9									
6,886.2	5,950.6	98.7									
7,003.0	5,952.9	99.9									
7,174.5	5,951.9	98.9									
7,294.0	5,953.1	98.2									
7,470.1	5,954.8	90.2									
7,609.9	5,954.4	98.9									
7,790.0	5,956.5	99.6									
7,907.8	5,958.4	98.5									
8,072.5	5,959.9	91.0									
8,193.9	5,959.6	90.1									
8,370.1	5,954.3	91.8									
8,509.8	5,951.2	90.6									
8,690.0	5,949.0	98.9									
8,814.3	5,949.0	90.7									
8,990.5	5,948.2	90.5									
9,120.1	5,947.1	99.5									
9,310.0	5,949.2	98.9									
9,454.1	5,951.0	99.2									
9,629.9	5,949.9	99.0									
9,754.6	5,948.4	91.6									
9,921.6	5,940.5	90.1									
10,171.9	5,944.0	99.5									
10,350.1	5,939.8	91.2									
10,471.1	5,939.1	90.7									
10,632.9	5,939.3	99.6									
10,744.1	5,939.3	99.2									
10,883.9	5,940.5	99.6									
10,982.0	5,941.1	99.8									
11,118.1	5,943.7	99.5									
11,223.1	5,946.5	99.3									
11,349.1	5,947.6	99.9									
11,428.1	5,949.9	99.3									
11,562.0	5,950.1	99.7									
11,664.0	5,946.6	99.8									
11,795.9	5,949.9	99.2									
11,904.9	5,951.3	99.5									
12,033.8	5,952.2	99.4									
12,118.1	5,951.5	99.4									
12,259.8	5,950.2	99.3									
12,350.1	5,950.9	99.3									
12,490.2	5,952.0	99.3									
12,599.4	5,952.9	99.3									
12,683.7	5,952.1	99.6									
Cement											
Description				Pump Start Date		Top (ftKB)		Btm (ftKB)		Item Des	
Conductor Cement				5/19/2013		17.3		80.0		Swell Packer	
Description				Pump Start Date		Top (ftKB)		Btm (ftKB)		Item Des	
Surface Casing Cement				5/21/2013		17.3		1,915.7		Casing Joints	
Wellbore Original Hole		Fluid Type Red Dye		Amount (sacks)		Class		Est Top (ftKB)		Est Btm (ftKB)	
				884		Type III+1...		17.3		1,915.0	
Wellbore Original Hole		Fluid Type Displacement		Amount (sacks)		Class		Est Top (ftKB)		Est Btm (ftKB)	
								17.3		1,868.0	
Description				Pump Start Date		Top (ftKB)		Btm (ftKB)		Item Des	
Intermediate Casing Cement				5/24/2013		17.3		6,160.5		Swell Packer	
Wellbore Original Hole		Fluid Type Preflush		Amount (sacks)		Class		Est Top (ftKB)		Est Btm (ftKB)	
								6,160.5		6,160.5	
Wellbore Original Hole		Fluid Type Lead Cement		Amount (sacks)		Class		Est Top (ftKB)		Est Btm (ftKB)	
				328		G		17.3		4,260.0	
Wellbore Original Hole		Fluid Type Tail Cement		Amount (sacks)		Class		Est Top (ftKB)		Est Btm (ftKB)	
				108		G		4,260.0		6,160.5	
Wellbore Original Hole		Fluid Type Displacement w/ Fresh water		Amount (sacks)		Class		Est Top (ftKB)		Est Btm (ftKB)	
						Water		17.3		6,119.0	
Perforations											
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		6,238.0		6,242.0		Niobrara, Original Hole		Swell Packer	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		6,272.0		6,276.0		Niobrara, Original Hole		Casing Joints	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		6,366.0		6,370.0		Niobrara, Original Hole		Swell Packer	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		6,406.0		6,410.0		Niobrara, Original Hole		Casing Joints	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		6,526.0		6,530.0		Niobrara, Original Hole		Swell Packer	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		6,570.0		6,574.0		Niobrara, Original Hole		Casing Joints	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		6,710.0		6,714.0		Niobrara, Original Hole		Swell Packer	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		6,748.0		6,752.0		Niobrara, Original Hole		Casing Joints	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		6,886.0		6,890.0		Niobrara, Original Hole		Swell Packer	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		6,928.0		6,932.0		Niobrara, Original Hole		Casing Joints	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		7,064.0		7,068.0		Niobrara, Original Hole		Swell Packer	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		7,110.0		7,114.0		Niobrara, Original Hole		Casing Joints	
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone		Item Des	
Perforated Liner		10/3/2013		7,250.0		7,254.0		Niobrara, Original Hole		Swell Packer	



PT - Completion Report - CR

Well Name: HORSETAIL 07-0611H

Lateral/Horizontal - Original Hole, 1/9/2014 11:42:45 AM					Perforations						
MD (ftKB)	TV D (ftKB)	n cl (°)		Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone	Shot...	Calcu...
25.3	25.3	1.1			Perforated Liner	10/3/2013	7,290.0	7,294.0	Niobrara, Original Hole	3.0	13
58.4	58.4	1.1			Perforated Liner	10/3/2013	7,430.0	7,434.0	Niobrara, Original Hole	3.0	13
1,915.7	1,914.9	1.9			Perforated Liner	10/3/2013	7,470.0	7,474.0	Niobrara, Original Hole	3.0	13
5,184.1	5,182.7	0.4			Perforated Liner	10/2/2013	7,606.0	7,610.0	Niobrara, Original Hole	3.0	13
5,279.9	5,278.5	1.2			Perforated Liner	10/2/2013	7,650.0	7,654.0	Niobrara, Original Hole	3.0	13
6,169.9	5,946.1	90.1			Perforated Liner	10/2/2013	7,650.0	7,654.0	Niobrara, Original Hole	3.0	13
6,319.2	5,947.0	88.9			Perforated Liner	10/2/2013	7,790.0	7,794.0	Niobrara, Original Hole	3.0	13
6,410.1	5,947.1	88.9			Perforated Liner	10/2/2013	7,790.0	7,794.0	Niobrara, Original Hole	3.0	13
6,569.9	5,948.4	90.1			Perforated Liner	10/2/2013	7,830.0	7,834.0	Niobrara, Original Hole	3.0	13
6,713.9	5,948.8	88.9			Perforated Liner	10/2/2013	7,830.0	7,834.0	Niobrara, Original Hole	3.0	13
6,886.2	5,950.6	88.7			Perforated Liner	10/2/2013	7,968.0	7,972.0	Niobrara, Original Hole	3.0	13
7,003.0	5,952.9	88.8			Perforated Liner	10/2/2013	7,968.0	7,972.0	Niobrara, Original Hole	3.0	13
7,174.5	5,951.9	88.9			Perforated Liner	10/2/2013	8,006.0	8,010.0	Niobrara, Original Hole	3.0	13
7,294.0	5,953.1	88.2			Perforated Liner	10/2/2013	8,006.0	8,010.0	Niobrara, Original Hole	3.0	13
7,470.1	5,954.8	90.2			Perforated Liner	10/2/2013	8,144.0	8,148.0	Niobrara, Original Hole	3.0	13
7,609.9	5,954.4	88.9			Perforated Liner	10/2/2013	8,144.0	8,148.0	Niobrara, Original Hole	3.0	13
7,790.0	5,955.5	88.6			Perforated Liner	10/2/2013	8,190.0	8,194.0	Niobrara, Original Hole	3.0	13
7,907.8	5,958.4	88.5			Perforated Liner	10/2/2013	8,190.0	8,194.0	Niobrara, Original Hole	3.0	13
8,072.5	5,959.9	91.0			Perforated Liner	10/2/2013	8,326.0	8,330.0	Niobrara, Original Hole	3.0	13
8,193.9	5,956.6	90.1			Perforated Liner	10/2/2013	8,326.0	8,330.0	Niobrara, Original Hole	3.0	13
8,370.1	5,954.3	91.8			Perforated Liner	10/2/2013	8,370.0	8,374.0	Niobrara, Original Hole	3.0	13
8,509.8	5,951.2	90.6			Perforated Liner	10/2/2013	8,506.0	8,510.0	Niobrara, Original Hole	3.0	13
8,690.0	5,949.0	88.8			Perforated Liner	10/2/2013	8,506.0	8,510.0	Niobrara, Original Hole	3.0	13
8,814.3	5,949.0	90.7			Perforated Liner	10/2/2013	8,550.0	8,554.0	Niobrara, Original Hole	3.0	13
8,990.5	5,948.2	90.5			Perforated Liner	10/2/2013	8,550.0	8,554.0	Niobrara, Original Hole	3.0	13
9,120.1	5,947.1	88.5			Perforated Liner	10/1/2013	8,690.0	8,694.0	Niobrara, Original Hole	3.0	13
9,310.0	5,949.2	88.9			Perforated Liner	10/1/2013	8,736.0	8,740.0	Niobrara, Original Hole	3.0	13
9,454.1	5,951.0	89.2			Perforated Liner	10/1/2013	8,736.0	8,740.0	Niobrara, Original Hole	3.0	13
9,629.9	5,949.9	90.0			Perforated Liner	10/1/2013	8,874.0	8,878.0	Niobrara, Original Hole	3.0	13
9,754.6	5,948.4	91.6			Perforated Liner	10/1/2013	8,874.0	8,878.0	Niobrara, Original Hole	3.0	13
9,921.6	5,940.5	90.1			Perforated Liner	10/1/2013	8,924.0	8,928.0	Niobrara, Original Hole	3.0	13
10,171.9	5,944.0	88.5			Perforated Liner	10/1/2013	8,924.0	8,928.0	Niobrara, Original Hole	3.0	13
10,350.1	5,939.8	91.2			Perforated Liner	10/1/2013	9,066.0	9,070.0	Niobrara, Original Hole	3.0	13
10,471.1	5,939.1	88.7			Perforated Liner	10/1/2013	9,066.0	9,070.0	Niobrara, Original Hole	3.0	13
10,632.9	5,939.3	88.6			Perforated Liner	10/1/2013	9,116.0	9,120.0	Niobrara, Original Hole	3.0	13
10,744.1	5,939.3	90.2			Perforated Liner	10/1/2013	9,116.0	9,120.0	Niobrara, Original Hole	3.0	13
10,883.9	5,940.5	88.6			Perforated Liner	10/1/2013	9,260.0	9,264.0	Niobrara, Original Hole	3.0	13
10,982.0	5,941.1	88.8			Perforated Liner	10/1/2013	9,260.0	9,264.0	Niobrara, Original Hole	3.0	13
11,118.1	5,943.7	88.5			Perforated Liner	10/1/2013	9,310.0	9,314.0	Niobrara, Original Hole	3.0	13
11,223.1	5,945.5	88.3			Perforated Liner	10/1/2013	9,310.0	9,314.0	Niobrara, Original Hole	3.0	13
11,349.1	5,947.6	88.9			Perforated Liner	10/1/2013	9,450.0	9,454.0	Niobrara, Original Hole	3.0	13
11,428.1	5,948.9	88.3			Perforated Liner	10/1/2013	9,450.0	9,454.0	Niobrara, Original Hole	3.0	13
11,562.0	5,950.1	88.7			Perforated Liner	10/1/2013	9,500.0	9,504.0	Niobrara, Original Hole	3.0	13
11,664.0	5,949.6	88.8			Perforated Liner	9/30/2013	9,500.0	9,504.0	Niobrara, Original Hole	3.0	13
11,795.9	5,949.9	88.2			Perforated Liner	9/30/2013	9,630.0	9,634.0	Niobrara, Original Hole	3.0	13
11,904.9	5,951.3	88.5			Perforated Liner	9/30/2013	9,680.0	9,684.0	Niobrara, Original Hole	3.0	13
12,033.8	5,952.2	88.4			Perforated Liner	9/30/2013	9,680.0	9,684.0	Niobrara, Original Hole	3.0	13
12,118.1	5,951.5	90.4			Perforated Liner	9/30/2013	9,814.0	9,818.0	Niobrara, Original Hole	3.0	13
12,259.8	5,952.2	90.3			Perforated Liner	9/30/2013	9,814.0	9,818.0	Niobrara, Original Hole	3.0	13
12,350.1	5,950.9	89.3			Perforated Liner	9/30/2013	9,860.0	9,864.0	Niobrara, Original Hole	3.0	13
12,490.2	5,952.0	88.3			Perforated Liner	9/30/2013	9,860.0	9,864.0	Niobrara, Original Hole	3.0	13
12,599.4	5,952.9	90.3			Perforated Liner	9/30/2013	10,168.0	10,172.0	Niobrara, Original Hole	3.0	13
12,683.7	5,952.1	90.6			Perforated Liner	9/30/2013	10,168.0	10,172.0	Niobrara, Original Hole	3.0	13



PT - Completion Report - CR

Well Name: HORSETAIL 07-0611H

Lateral/Horizontal - Original Hole, 1/9/2014 11:42:48 AM					Perforations						
MD (ftKB)	TV D (ftKB B)	n cl (°)	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone	Shot...	Calcu...
25.3	25.3	1.1			Perforated Liner	9/30/2013	10,220.0	10,224.0	Niobrara, Original Hole	3.0	13
58.4	58.4	1.1			Perforated Liner	9/30/2013	10,350.0	10,354.0	Niobrara, Original Hole	3.0	13
1,915.7	1,914.9	1.9			Perforated Liner	9/30/2013	10,400.0	10,404.0	Niobrara, Original Hole	3.0	13
5,184.1	5,182.7	0.4			Perforated Liner	9/30/2013	10,530.0	10,534.0	Niobrara, Original Hole	3.0	13
5,279.9	5,278.5	1.2			Perforated Liner	9/30/2013	10,574.0	10,578.0	Niobrara, Original Hole	3.0	13
6,169.9	5,948.1	90.1			Perforated Liner	9/30/2013	10,678.0	10,682.0	Niobrara, Original Hole	3.0	13
6,319.2	5,947.0	88.9			Perforated Liner	9/30/2013	10,740.0	10,744.0	Niobrara, Original Hole	3.0	13
6,410.1	5,947.1	88.9			Perforated Liner	9/30/2013	10,848.0	10,852.0	Niobrara, Original Hole	3.0	13
6,569.9	5,948.4	88.9			Perforated Liner	9/30/2013	10,884.0	10,888.0	Niobrara, Original Hole	3.0	13
6,713.9	5,948.8	88.9			Perforated Liner	9/30/2013	10,978.0	10,982.0	Niobrara, Original Hole	3.0	13
6,886.2	5,950.6	88.7			Perforated Liner	9/30/2013	10,848.0	10,852.0	Niobrara, Original Hole	3.0	13
7,003.0	5,952.9	88.6			Perforated Liner	9/30/2013	10,884.0	10,888.0	Niobrara, Original Hole	3.0	13
7,174.5	5,951.9	88.9			Perforated Liner	9/30/2013	10,884.0	10,888.0	Niobrara, Original Hole	3.0	13
7,294.0	5,953.1	88.2			Perforated Liner	9/29/2013	10,978.0	10,982.0	Niobrara, Original Hole	3.0	13
7,470.1	5,954.8	88.2			Perforated Liner	9/29/2013	11,018.0	11,022.0	Niobrara, Original Hole	3.0	13
7,609.9	5,954.4	88.9			Perforated Liner	9/28/2013	11,118.0	11,122.0	Niobrara, Original Hole	3.0	13
7,790.0	5,955.5	88.6			Perforated Liner	9/28/2013	11,158.0	11,162.0	Niobrara, Original Hole	3.0	13
7,907.8	5,958.4	88.5			Perforated Liner	9/28/2013	11,250.0	11,254.0	Niobrara, Original Hole	3.0	13
8,072.5	5,959.9	91.0			Perforated Liner	9/28/2013	11,292.0	11,296.0	Niobrara, Original Hole	3.0	13
8,193.9	5,956.6	90.1			Perforated Liner	9/28/2013	11,386.0	11,390.0	Niobrara, Original Hole	3.0	13
8,370.1	5,954.3	91.8			Perforated Liner	9/28/2013	11,424.0	11,428.0	Niobrara, Original Hole	3.0	13
8,509.8	5,951.2	90.6			Perforated Liner	9/28/2013	11,524.0	11,528.0	Niobrara, Original Hole	3.0	13
8,690.0	5,949.0	88.8			Perforated Liner	9/28/2013	11,562.0	11,566.0	Niobrara, Original Hole	3.0	13
8,814.3	5,949.0	90.7			Perforated Liner	9/28/2013	11,660.0	11,664.0	Niobrara, Original Hole	3.0	13
8,990.5	5,948.2	90.5			Perforated Liner	9/28/2013	11,700.0	11,704.0	Niobrara, Original Hole	3.0	13
9,120.1	5,947.1	88.5			Perforated Liner	9/28/2013	11,796.0	11,800.0	Niobrara, Original Hole	3.0	13
9,310.0	5,949.3	88.9			Perforated Liner	9/28/2013	11,838.0	11,842.0	Niobrara, Original Hole	3.0	13
9,454.1	5,951.0	89.2			Perforated Liner	9/27/2013	11,940.0	11,944.0	Niobrara, Original Hole	3.0	13
9,629.9	5,949.9	90.0			Perforated Liner	9/27/2013	11,978.0	11,982.0	Niobrara, Original Hole	3.0	13
9,754.6	5,948.4	91.6			Perforated Liner	9/27/2013	12,076.0	12,080.0	Niobrara, Original Hole	3.0	13
9,921.6	5,940.5	90.1			Perforated Liner	9/27/2013	12,114.0	12,118.0	Niobrara, Original Hole	3.0	13
10,171.9	5,944.0	88.5			Perforated Liner	9/27/2013	12,210.0	12,214.0	Niobrara, Original Hole	3.0	13
10,350.1	5,939.8	91.2			Perforated Liner	9/27/2013	12,260.0	12,264.0	Niobrara, Original Hole	3.0	13
10,471.1	5,939.1	88.7			Perforated Liner	9/27/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
10,632.9	5,939.3	88.6			Perforated Liner	9/27/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
10,744.1	5,939.3	88.2			Perforated Liner	9/27/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
10,883.9	5,940.5	88.6			Perforated Liner	9/27/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
10,982.0	5,941.1	88.8			Perforated Liner	9/27/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
11,118.1	5,943.7	88.5			Perforated Liner	9/27/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
11,223.1	5,946.5	88.3			Perforated Liner	9/27/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
11,349.1	5,947.6	88.9			Perforated Liner	9/27/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
11,428.1	5,948.9	88.3			Perforated Liner	9/27/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
11,562.0	5,950.1	88.7			Perforated Liner	9/26/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
11,664.0	5,946.6	88.8			Perforated Liner	9/26/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
11,795.9	5,949.9	88.2			Perforated Liner	9/26/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
11,904.9	5,951.3	88.5			Perforated Liner	9/26/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
12,033.8	5,952.2	90.4			Perforated Liner	9/25/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
12,118.1	5,951.5	90.4			Perforated Liner	9/25/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13
12,259.8	5,950.2	90.3		Perforated Liner	9/25/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13	
12,350.1	5,950.9	89.3		Perforated Liner	9/25/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13	
12,490.2	5,952.0	89.3		Perforated Liner	9/25/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13	
12,599.4	5,952.9	90.3		Perforated Liner	9/25/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13	
12,683.7	5,952.1	90.6		Perforated Liner	9/25/2013	12,346.0	12,350.0	Niobrara, Original Hole	3.0	13	



PT - Completion Report - CR

Well Name: HORSETAIL 07-0611H

Lateral/Horizontal - Original Hole, 1/9/2014 11:42:51 AM					Perforations						
MD (ftKB)	TV D (ftKB)	n cl (° B)	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone	Shot...	Calcu...
25.3	25.3	1.1			Perforated Liner	9/25/2013	12,390.0	12,394.0	Niobrara, Original Hole	3.0	13
58.4	58.4	1.1		Perforated Liner	9/25/2013	12,490.0	12,494.0	Niobrara, Original Hole	3.0	13	
1,915.7	1,914.9	1.8		Perforated Liner	9/25/2013	12,528.0	12,532.0	Niobrara, Original Hole	3.0	13	
5,184.1	5,182.7	0.4		Perforated Liner	9/25/2013	12,620.0	12,624.0	Niobrara, Original Hole	3.0	13	
5,279.9	5,278.5	1.2		Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone	Shot...	Calcu...	
6,169.9	6,168.1	80.1		Perforated Liner	9/25/2013	12,640.0	12,644.0	Niobrara, Original Hole	3.0	13	
6,319.2	6,317.0	85.9									
6,410.1	6,407.1	89.9									
6,569.9	6,566.4	95.1									
6,713.9	6,709.8	98.9									
6,886.2	6,880.5	98.7									
7,003.0	7,000.9	98.8									
7,174.5	7,171.9	98.9									
7,294.0	7,290.1	99.2									
7,470.1	7,464.9	99.9									
7,609.9	7,604.4	99.9									
7,790.0	7,785.5	99.9									
7,907.8	7,902.4	99.5									
8,072.5	8,068.9	91.0									
8,193.9	8,189.5	90.1									
8,370.1	8,364.3	91.8									
8,509.8	8,501.2	90.8									
8,690.0	8,683.0	89.9									
8,814.3	8,808.0	90.7									
8,990.5	8,984.2	90.5									
9,120.1	9,114.1	89.9									
9,310.0	9,303.3	89.9									
9,454.1	9,447.9	89.2									
9,629.9	9,623.0	90.0									
9,754.6	9,748.4	91.4									
9,921.6	9,915.1	92.1									
10,171.9	10,164.0	89.9									
10,350.1	10,343.0	91.2									
10,471.1	10,463.1	90.7									
10,632.9	10,626.3	90.8									
10,744.1	10,737.2	90.2									
10,883.9	10,876.5	89.8									
10,982.0	10,974.1	89.6									
11,118.1	11,110.7	89.9									
11,223.1	11,215.3	89.3									
11,349.1	11,341.6	89.9									
11,428.1	11,420.3	89.3									
11,562.0	11,553.1	89.7									
11,664.0	11,654.9	89.8									
11,795.9	11,786.9	89.2									
11,904.9	11,895.3	89.5									
12,033.8	12,023.2	90.4									
12,118.1	12,107.5	90.4									
12,259.8	12,248.2	90.3									
12,350.1	12,339.5	89.9									
12,490.2	12,479.0	89.3									
12,599.4	12,588.9	89.9									
12,683.7	12,673.1	90.4									
					Stimulations & Treatments						
					Stg #	Stage T...	Start Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean...
					40	Frac	10/3/2013	6,238.0	6,276.0	13970# 40/70, 161790# 20/40, 13720# CRC, Slick Water	4445.00
					39	Frac	10/3/2013	6,366.0	6,410.0	14000# 40/70, 162500# 20/40, 14500# CRC, Slick Water	4391.00
					38	Frac	10/3/2013	6,526.0	6,574.0	13000# 40/70, 165100# 20/40, 14500# CRC, Slick Water	4389.00
					37	Frac	10/3/2013	6,710.0	6,752.0	14200# 40/70, 163600# 20/40, 14800# CRC, Slick Water	4387.00
					36	Frac	10/3/2013	6,886.0	6,932.0	14100# 40/70, 167600# 20/40, 13100# CRC, Slick Water	4396.00
					35	Frac	10/3/2013	6,928.0	6,932.0	14250# 40/70, 168550# 20/40, 14000# CRC, Slick Water	4447.00
					34	Frac	10/2/2013	7,064.0	7,114.0	13240# 40/70, 165000# 20/40, 15200# CRC, Slick Water	4438.00
					33	Frac	10/2/2013	7,250.0	7,294.0	14000# 40/70, 164500# 20/40, 16100# CRC, Slick Water	4435.00
					32	Frac	10/2/2013	7,430.0	7,474.0	13000# 40/70, 168000# 20/40, 16000# CRC, Slick Water	4445.00
					31	Frac	10/2/2013	7,606.0	7,654.0	13000# 40/70, 165000# 20/40, 14600# CRC, Slick Water	4419.00
					30	Frac	10/2/2013	7,790.0	7,834.0	13100# 40/70, 163500# 20/40, 13900# CRC, Slick Water	4432.00
					29	Frac	10/2/2013	7,968.0	8,010.0	13514# 40/70, 169000# 20/40, 0# CRC, Slick Water	4359.00
					28	Frac	10/2/2013	8,144.0	8,194.0	13105# 40/70, 153100# 20/40, 16100# CRC, Slick Water	5581.00
					27	Frac	10/1/2013	8,326.0	8,374.0	12400# 40/70, 165700# 20/40, 16000# CRC, Slick Water	4493.00
					26	Frac	10/1/2013	8,506.0	8,554.0	13000# 40/70, 166500# 20/40, 16200# CRC, Slick Water	4614.00
					25	Frac	10/1/2013	8,690.0	8,740.0	13000# 40/70, 129000# 20/40, 0# CRC, Slick Water	4570.00
					24	Frac	10/1/2013	8,874.0	8,928.0	13000# 40/70, 165000# 20/40, 16000# CRC, Slick Water	4495.00
					23	Frac	10/1/2013	9,066.0	9,120.0	13000# 40/70, 169700# 20/40, 16000# CRC, Slick Water	4460.00
					22	Frac	9/30/2013	9,260.0	9,314.0	13000# 40/70, 137200# 20/40, 11100# CRC, Slick Water	4330.00
					21	Frac	9/30/2013	9,450.0	9,504.0	13400# 40/70, 105400# 20/40, 18000# CRC, Slick Water	4287.00
					20	Frac	9/30/2013	9,630.0	9,684.0	11000# 40/70, 106700# 20/40, 11400# CRC, Slick Water	4187.00
					19	Frac	9/30/2013	9,814.0	9,864.0	0# 40/70, 0# 20/40, 0# CRC, Slick Water	546.00
					18	Frac	9/30/2013	10,168.0	10,224.0	2100# 40/70, 0# 20/40, 0# CRC, Slick Water	1455.00
					17	Frac	9/30/2013	10,350.0	10,404.0	9000# 40/70, 0# 20/40, 0# CRC, Slick Water	2980.00



PT - Completion Report - CR

Well Name: HORSETAIL 07-0611H

Lateral/Horizontal - Original Hole, 1/9/2014 11:42:54 AM				Stimulations & Treatments							
MD (ftKB)	TV D (ftKB)	n cl (°)		Stg #	Stage T...	Start Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean...	
				16	Frac	9/30/2013	10,530.0	10,578.0	9000# 40/70, 145000# 20/40, 0# CRC, Slick Water	3721.00	
				15	Frac	9/29/2013	10,678.0	10,744.0	3200# 40/70, 137900# 20/40, 0# CRC, Slick Water	3505.00	
25.3	25.3	1.1		14	Frac	9/29/2013	10,848.0	10,888.0	3100# 40/70, 165400# 20/40, 5200# CRC, Slick Water	3670.00	
58.4	58.4	1.1		13	Frac	9/29/2013	10,978.0	11,022.0	3000# 40/70, 165800# 20/40, 0# CRC, Slick Water	3553.00	
1,915.7	1,914.9	1.9		12	Frac	9/29/2013	11,118.0	11,162.0	3000# 40/70, 165000# 20/40, 16000# CRC, Slick Water	3227.00	
5,184.1	5,183.7	0.4		11	Frac	9/29/2013	11,250.0	11,296.0	3000# 40/70, 162500# 20/40, 16000# CRC, Slick Water	3281.00	
5,279.9	5,279.5	1.2		10	Frac	9/28/2013	11,386.0	11,428.0	9060# 40/70, 164200# 20/40, 0# CRC, Slick Water	5254.00	
6,169.9	6,169.1	0.1		9	Frac	9/28/2013	11,524.0	11,566.0	9000# 40/70, 165600# 20/40, 16000# CRC, Slick Water	4400.00	
6,319.2	6,317.0	0.9		8	Frac	9/27/2013	11,660.0	11,704.0	9200# 40/70, 168300# 20/40, 16300# CRC, Slick Water	3799.00	
6,410.1	6,411.1	0.9		7	Frac	9/27/2013	11,796.0	11,842.0	9000# 40/70, 170000# 20/40, 16000# CRC, Slick Water	3809.00	
6,569.9	6,568.4	0.1		6	Frac	9/27/2013	11,940.0	11,982.0	8500# 40/70, 120500# 20/40, 0# CRC, Slick Water	3308.00	
6,713.9	6,714.8	0.9		5	Frac	9/25/2013	12,076.0	12,118.0	9000# 40/70, 117800# 20/40, 0# CRC, Slick Water	3501.00	
6,886.2	6,880.9	0.7		4	Frac	9/25/2013	12,210.0	12,264.0	9100# 40/70, 164600# 20/40, 16500# CRC, Slick Water	3810.00	
7,003.0	7,002.9	0.9		3	Frac	9/25/2013	12,346.0	12,394.0	9100# 40/70, 165400# 20/40, 15800# CRC, Slick Water	3806.00	
7,174.5	7,173.9	0.9		2	Frac	9/25/2013	12,490.0	12,532.0	9500# 40/70, 162500# 20/40, 16000# CRC, Slick Water	4048.00	
7,294.0	7,293.1	0.2		1	Frac	9/25/2013	12,620.0	12,644.0	9500# 40/70, 165000# 20/40, 16000# CRC, Slick Water	3872.00	
7,470.1	7,474.8	0.2									
7,609.9	7,604.4	0.9									
7,790.0	7,788.5	0.6									
7,907.8	7,904.4	0.5									
8,072.5	8,068.9	0.1									
8,193.9	8,189.8	0.1									
8,370.1	8,364.3	0.6									
8,509.8	8,501.2	0.9									
8,690.0	8,682.0	0.9									
8,814.3	8,808.0	0.7									
8,990.5	8,981.2	0.5									
9,120.1	9,117.1	0.5									
9,310.0	9,306.3	0.9									
9,454.1	9,451.0	0.2									
9,629.9	9,619.9	0.9									
9,754.6	9,746.4	0.4									
9,921.6	9,915.5	0.1									
10,171.9	10,164.0	0.5									
10,350.1	10,338.9	0.3									
10,471.1	10,463.1	0.7									
10,632.9	10,629.9	0.6									
10,744.1	10,739.3	0.2									
10,883.9	10,880.5	0.6									
10,982.0	10,981.1	0.6									
11,118.1	11,113.7	0.5									
11,223.1	11,219.5	0.9									
11,349.1	11,347.6	0.9									
11,428.1	11,426.9	0.9									
11,562.0	11,560.1	0.7									
11,664.0	11,660.9	0.9									
11,795.9	11,794.9	0.2									
11,904.9	11,901.3	0.5									
12,033.8	12,030.2	0.4									
12,118.1	12,115.1	0.4									
12,259.8	12,259.2	0.9									
12,350.1	12,350.9	0.9									
12,490.2	12,490.9	0.9									
12,599.4	12,592.9	0.3									
12,683.7	12,682.1	0.9									
Tubing											
Set Depth (ftKB)		Comment		Run Date		Pull Date					
5,280.0				10/30/2013							
Item Des				OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	
Tubing				2 7/8	6.50	J-55	1	31.40	0.2	31.6	
Tubing Sub				2 7/8	6.50	J-55	1	10.20	31.6	41.8	
Tubing Sub				2 7/8	6.50	J-55	1	8.25	41.8	50.0	
Tubing Sub				2 7/8	6.50	J-55	1	6.20	50.0	56.2	
Tubing Sub				2 7/8	6.50	J-55	1	2.20	56.2	58.4	
Tubing				2 7/8	6.50	J-55	164	5,123.00	58.4	5,181.4	
Cup Seating Nipple				2 7/8			1	1.10	5,181.4	5,182.5	
Cross Over 2-7/8 x 2-3/8"				2 7/8			1	0.30	5,182.5	5,182.8	
Tubing				2 3/8	4.70	J-55	3	94.20	5,182.8	5,277.0	
Seal Bore Assembly				2 3/8			1	3.00	5,277.0	5,280.0	
Rod Strings											
Rod Description				Comment			Run Date		Pull Date		
Item Des				OD (in)	Wt (lb/ft)	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)		
Other String Components											
Item Des				OD (in)	Len (ft)		Top (ftKB)	Btm (ftKB)	ID (in)		
Other In Hole											
Description				OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)			
CFP				4	10/3/2013	10/5/2013	6,306.0	6,308.0			
Comment Isolation											
Description				OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)			
CFP				4	10/3/2013	10/5/2013	6,444.0	6,446.0			
Comment Isolation											
Description				OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)			
CFP				4	10/3/2013	10/5/2013	6,622.0	6,624.0			
Comment Isolation											
Description				OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)			
CFP				4	10/3/2013	10/5/2013	6,802.0	6,804.0			
Comment Isolation											

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PT - Completion Report - CR

Well Name: HORSETAIL 07-0611H

Lateral/Horizontal - Original Hole, 1/9/2014 11:43:01 AM				Other In Hole						
MD (ftKB)	TV D (ftKB)	n (°)	Vertical schematic (actual)	Logs	Description	OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)
					CFP	4	9/28/2013	10/5/2013	11,332.0	11,324.0
					Isolation					
25.3	25.3	1.1			CFP	4	9/28/2013	10/5/2013	11,464.0	11,466.0
58.4	58.4	1.1			Isolation					
1,915.7	1,914.9	1.9			CFP	4	9/27/2013	10/5/2013	11,602.0	11,604.0
5,184.1	5,182.7	0.4			Isolation					
5,279.9	5,278.5	1.2			CFP	4	9/27/2013	10/5/2013	11,740.0	11,742.0
6,169.9	5,946.1	90.1			Isolation					
6,319.2	5,947.0	98.9			CFP	4	9/27/2013	10/6/2013	11,876.0	11,878.0
6,410.1	5,947.1	98.9			Isolation					
6,569.9	5,948.4	90.1			CFP	4	9/26/2013	10/6/2013	12,156.0	12,158.0
6,713.9	5,948.8	88.9			Isolation					
6,886.2	5,950.6	98.7			CFP	4	9/25/2013	10/6/2013	12,290.0	12,292.0
7,003.0	5,952.9	98.9			Isolation					
7,174.5	5,951.9	98.9			CFP	4	9/25/2013	10/6/2013	12,430.0	12,432.0
7,294.0	5,953.1	98.2			Isolation					
7,470.1	5,954.8	90.2			CFP	4	9/25/2013	10/6/2013	12,570.0	12,572.0
7,609.9	5,954.4	98.9			Isolation					
7,790.0	5,956.5	98.6			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
7,907.8	5,958.4	98.5			Isolation					
8,072.5	5,959.9	91.0			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
8,193.9	5,956.6	90.1			Isolation					
8,370.1	5,954.3	91.8			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
8,509.8	5,951.2	90.6			Isolation					
8,690.0	5,949.0	98.9			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
8,814.3	5,949.0	90.7			Isolation					
8,990.5	5,948.2	90.5			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
9,120.1	5,947.1	98.5			Isolation					
9,310.0	5,949.2	98.9			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
9,454.1	5,951.0	99.2			Isolation					
9,629.9	5,949.9	92.0			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
9,754.6	5,946.4	91.6			Isolation					
9,921.6	5,940.5	90.1			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
10,171.9	5,944.0	88.5			Isolation					
10,350.1	5,939.8	91.2			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
10,471.1	5,939.1	90.7			Isolation					
10,632.9	5,939.3	98.6			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
10,744.1	5,939.3	90.2			Isolation					
10,883.9	5,940.5	98.6			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
10,982.0	5,941.1	98.8			Isolation					
11,118.1	5,943.7	98.5			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
11,223.1	5,945.5	98.3			Isolation					
11,349.1	5,947.6	98.9			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
11,428.1	5,948.9	98.3			Isolation					
11,562.0	5,950.1	98.7			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
11,664.0	5,946.6	98.8			Isolation					
11,795.9	5,949.9	98.2			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
11,904.9	5,951.3	98.5			Isolation					
12,033.8	5,952.2	98.4			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
12,118.1	5,951.5	90.4			Isolation					
12,259.8	5,950.2	90.3			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
12,350.1	5,950.9	98.3			Isolation					
12,490.2	5,952.0	98.3			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
12,599.4	5,952.9	90.3			Isolation					
12,683.7	5,952.1	90.6			CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0
					Isolation					
					CFP	4	9/25/2013	10/6/2013	12,660.0	12,662.0