

Lease Review All CR											
Well Name: WILDHORSE 18-1834H											
API Number 051233612300		WPC ID 1CO076876		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 5,058.00		Ground Elevation (ft) 5,041.20		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 10,372.0	
Original Spud Date 7/28/2013		Completion Date 9/22/2013		Asset Group Redtail Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 320.0		N/S Ref FNL	
E/W Dist (ft) 1,980.0		E/W Ref FEL		Lot		Quarter 1 NW		Quarter 2 NE		Quarter 3 NE	
Quarter 4 NE		Section 18		Section Suffix		Section Type		Township 9 N		Township N/S Dir N	
Range 59		Range E/W Dir W		Meridian 6TH							
Lateral/Horizontal - Original Hole, 2/18/2014 10:06:10 AM						Wellbore Sections					
MD (ftKB)		TV D (ftKB)		n cl (°)		Vertical schematic (actual)		Logs		Wellbore Name	
5.9		17.7		23.0		96.8		1,404.9		1,807.1	
1,807.1		1,807.1		1,807.1		1,807.1		1,807.1		1,807.1	
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Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 5,058.00		Ground Elevation (ft) 5,041.20		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 10,372.0			
Original Spud Date 7/28/2013		Completion Date 9/22/2013		Asset Group Redtail Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 320.0		N/S Ref FNL		E/W Dist (ft) 1,980.0	
E/W Ref FEL													
Lot		Quarter 1 NW		Quarter 2 NE		Quarter 3		Quarter 4		Section 18		Section Suffix	
Section Type		Township 9		Township N/S Dir N		Range 59		Range E/W Dir W		Meridian 6TH			
Lateral/Horizontal - Original Hole, 2/18/2014 10:06:11 AM													
Perforations													
MD (ftKB)		TV D (ftKB)		n cl (°)				Type of Hole		Date		Top (ftKB)	
												Btm (ftKB)	
												Zone	

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Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 5,058.00		Ground Elevation (ft) 5,041.20		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 10,372.0	
Original Spud Date 7/28/2013		Completion Date 9/22/2013		Asset Group Redtail Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 320.0		N/S Ref FNL		E/W Dist (ft) 1,980.0	
E/W Ref FEL													
Lot		Quarter 1 NW		Quarter 2 NE		Quarter 3		Quarter 4		Section 18		Section Suffix	
Section Type		Township 9		Township N/S Dir N		Range 59		Range E/W Dir W		Meridian 6TH			
Lateral/Horizontal - Original Hole, 2/18/2014 10:06:12 AM													
Perforations													

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API Number 051233612300		WPC ID 1CO076876		Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO																																
Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 5,058.00		Ground Elevation (ft) 5,041.20		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 10,372.0																																
Original Spud Date 7/28/2013		Completion Date 9/22/2013		Asset Group Redtail Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 320.0		N/S Ref FNL		E/W Dist (ft) 1,980.0		E/W Ref FEL																												
Lot		Quarter 1 NW	Quarter 2 NE	Quarter 3	Quarter 4	Section 18	Section Suffix	Section Type		Township 9 N		Township N/S Dir		Range 59	Range E/W Dir W		Meridian 6TH																											
Lateral/Horizontal - Original Hole, 2/18/2014 10:06:13 AM															Stim/Treat Stages																													
Vertical schematic (actual)															Logs															Stage Type	Start Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid			Vol Clean Pump (bbl)							
																														Frac	9/13/2013	9,886.0	9,934.0	9100# 40/70, 162000# 20/40, 15000# 20/40 CRC, Slick Water			4045.00							
Vertical schematic (actual)															Logs															Frac	9/13/2013	10,060.0	10,110.0	9900# 40/70, 163300# 20/40, 16300# 20/40 CRC, Slick Water			5119.00							
																														Frac	9/13/2013	10,206.0	10,262.0	7600# 40/70, 167700# 20/40, 16300# 20/40 CRC, Slick Water			4200.00							
Vertical schematic (actual)															Logs															Tubing - Production set at 5,426.8ftKB on 10/7/2013 09:55														
																														Set Depth (ftKB)	5,426.8	Comment	Run Date 10/7/2013	Pull Date										
Vertical schematic (actual)															Logs															Item Des	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)									
																														Tubing Hanger	7 1/16		0.84	5.0	5.8									
Vertical schematic (actual)															Logs															Tubing	2 7/8	2.441	1,394.98	5.8	1,400.8									
																														Mandrel - side pocket	2 7/8		4.10	1,400.8	1,404.9									
Vertical schematic (actual)															Logs															Tubing	2 7/8	2.441	1,129.60	1,404.9	2,534.5									
																														Mandrel - side pocket	2 7/8		4.10	2,534.5	2,538.6									
Vertical schematic (actual)															Logs															Tubing	2 7/8	2.441	595.94	2,538.6	3,134.6									
																														Mandrel - side pocket	2 7/8		4.10	3,134.6	3,138.7									
Vertical schematic (actual)															Logs															Tubing	2 7/8	2.441	439.91	3,138.7	3,578.6									
																														Mandrel - side pocket	2 7/8		4.10	3,578.6	3,582.7									
Vertical schematic (actual)															Logs															Tubing	2 7/8	2.441	438.07	3,582.7	4,020.7									
																														Mandrel - side pocket	2 7/8		4.10	4,020.7	4,024.8									
Vertical schematic (actual)															Logs															Tubing	2 7/8	2.441	470.93	4,024.8	4,495.8									
																														Mandrel - side pocket	2 7/8		4.10	4,495.8	4,499.9									
Vertical schematic (actual)															Logs															Tubing	2 7/8	2.441	439.59	4,499.9	4,939.5									
																														Mandrel - side pocket	2 7/8		4.10	4,939.5	4,943.6									
Vertical schematic (actual)															Logs															Tubing	2 7/8	2.441	439.78	4,943.6	5,383.3									
																														Mandrel - side pocket / Orifice Valve	2 7/8		4.10	5,383.3	5,387.4									
Vertical schematic (actual)															Logs															Tubing	2 7/8	2.441	31.36	5,387.4	5,418.8									
																														Cup Seating Nipple	2 7/8		1.10	5,418.8	5,419.9									
Vertical schematic (actual)															Logs															Packer	2 7/8		6.85	5,419.9	5,426.8									
Vertical schematic (actual)															Logs															Rod Strings														
Vertical schematic (actual)															Logs															<des> on <dtmrun>														
Vertical schematic (actual)															Logs															Rod Description	Run Date	Pull Date												
Vertical schematic (actual)															Logs															Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)										
Vertical schematic (actual)															Logs															Other Strings														
Vertical schematic (actual)															Logs															Set Depth (ftKB)	Comment	Run Date	Pull Date											
Vertical schematic (actual)															Logs															Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)										
Vertical schematic (actual)															Logs															Other In Hole														
Vertical schematic (actual)															Logs															Des	OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)									
Vertical schematic (actual)															Logs															CFP	4	9/19/2013	9/21/2013	6,854.0	6,856.0									
Vertical schematic (actual)															Logs															CFP	4	9/19/2013	9/21/2013	7,000.0	7,002.0									
Vertical schematic (actual)															Logs															CFP	4	9/19/2013	9/21/2013	7,150.0	7,152.0									
Vertical schematic (actual)															Logs															CFP	4	9/18/2013	9/21/2013	7,310.0	7,312.0									
Vertical schematic (actual)															Logs															CFP	4	9/18/2013	9/21/2013	7,450.0	7,452.0									
Vertical schematic (actual)															Logs															CFP	4	9/18/2013	9/21/2013	7,590.0	7,592.0									
Vertical schematic (actual)															Logs															CFP	4	9/18/2013	9/21/2013	7,758.0	7,760.0									
Vertical schematic (actual)															Logs															CFP	4	9/15/2013	9/21/2013	7,900.0	7,902.0									
Vertical schematic (actual)															Logs															CFP	4	9/15/2013	9/21/2013	8,042.0	8,044.0									
Vertical schematic (actual)															Logs															CFP	4	9/15/2013	9/21/2013	8,208.0	8,210.0									
Vertical schematic (actual)															Logs															CFP	4	9/14/2013	9/21/2013	8,350.0	8,352.0									
Vertical schematic (actual)															Logs															CFP	4	9/14/2013	9/21/2013	8,494.0	8,496.0									
Vertical schematic (actual)															Logs															CFP	4	9/14/2013	9/21/2013	8,638.0	8,640.0									
Vertical schematic (actual)															Logs															CFP	4	9/14/2013	9/21/2013	8,800.0	8,802.0									
Vertical schematic (actual)															Logs															CFP	4	9/14/2013	9/21/2013	8,944.0	8,946.0									
Vertical schematic (actual)															Logs															CFP	4	9/14/2013	9/21/2013	9,110.0	9,112.0									
Vertical schematic (actual)															Logs															CFP	4	9/14/2013	9/21/2013	9,252.0	9,254.0									
Vertical schematic (actual)															Logs															CFP	4	9/14/2013	9/21/2013	9,402.0	9,404.0									
Vertical schematic (actual)															Logs															CFP	4	9/13/2013	9/21/2013	9,560.0	9,562.0									
Vertical schematic (actual)															Logs															CFP	4	9/13/2013	9/21/2013	9,706.0	9,708.0									
Vertical schematic (actual)															Logs															CFP	4	9/13/2013	9/21/2013	9,840.0	9,842.0									
Vertical schematic (actual)															Logs															CFP	4	9/13/2013	9/21/2013	9,980.0	9,982.0									
Vertical schematic (actual)															Logs															CFP	4	9/13/2013	9/21/2013	10,152.0	10,154.0									
Vertical schematic (actual)															Logs															Bottom Hole Cores														
Vertical schematic (actual)															Logs															Date	Core #	Top (ftKB)	Btm (ftKB)	Recov (ft)										
Vertical schematic (actual)															Logs																													
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