

Lease Review All CR																							
Well Name: WILDHORSE 16-13L																							
API Number 051233737400			WPC ID 1CO076880			Well Permit Number			Field Name Wildcat			County Weld		State CO									
Well Configuration Type Vertical			Orig KB Elv (ft) 5,071.90			Ground Elevation (ft) 5,054.60			Casing Flange Elevation (ft)			Tubing Head Elevation (ft)			Total Depth (ftKB) 10,060.0								
Original Spud Date 5/31/2013		Completion Date		Asset Group Redtail Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 1,954.0		N/S Ref FSL		E/W Dist (ft) 613.0		E/W Ref FWL							
Lot		Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 16	Section Suffix	Section Type		Township 9 N		Township N/S Dir		Range 59	Range E/W Dir W		Meridian 6TH						
Vertical - Original Hole, 2/11/2014 2:29:40 PM														Wellbore Sections									
<div><div>MD (ftKB)</div><div>TV D (ftKB)</div><div>n cl (° B)</div><div>Vertical schematic (actual)</div><div>Logs</div></div>														Wellbore Name		Start Date		Size (in)		Act Top (ftKB)		Act Btm (ftKB)	
														Original Hole		5/30/2013		24		17.3		80.0	
														Original Hole		5/31/2013		13 1/2		80.0		1,615.0	
														Original Hole		6/2/2013		8 3/4		1,615.0		10,060.0	
Conductor Pipe, 80.0ftKB																							
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, 1,608.1ftKB																							
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		22.3		5.00		Pup & W.H.											
9 5/8		36.00		J-55		22.3		1,560.6		1,538.32		Casing Joints											
9 5/8		36.00		J-55		1,560.6		1,562.1		1.50		Float Collar											
9 5/8		36.00		J-55		1,562.1		1,606.1		44.01		Casing Joints											
9 5/8		36.00		J-55		1,606.1		1,608.1		2.00		Float Shoe											
Production Csg, 10,047.0ftKB																							
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des											
5 1/2		17.00		L-80		17.3		33.6		16.30		Landing Joint											
5 1/2		17.00		L-80		33.6		6,800.1		6,766.47		Casing Joints											
5 1/2		17.00		L-80		6,800.1		6,802.1		2.00		DV Tool											
5 1/2		17.00		L-80		6,802.1		9,954.8		3,152.70		Casing Joints											
5 1/2		17.00		L-80		9,954.8		9,956.3		1.50		Float Collar											
5 1/2		17.00		L-80		9,956.3		10,000.9		44.61		Casing Joints											
5 1/2		17.00		L-80		10,000.9		10,045.5		44.62		Casing Joints											
5 1/2		17.00		L-80		10,045.5		10,047.0		1.50		Float Shoe											
Cement Stages																							
Des		Pump Start Date		Drill Out Date		Top (ftKB)		Btm (ftKB)		Top Meas Meth													
Conductor Cement		5/30/2013				17.3		80.0		Returns to Surface													
Surface Casing Cement		6/1/2013				17.3		1,608.1		Returns to Surface													
Cement long string		7/5/2013				17.3		6,801.7		Returns to Surface													
Cement long string		7/5/2013				6,801.7		10,047.0		Returns to Surface													
Perforations																							
Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone															
Perforated		10/7/2013		7,538.0		7,540.0		Entrada, Original Hole															
Perforated		10/7/2013		7,544.0		7,550.0		Entrada, Original Hole															
Perforated		10/7/2013		7,552.0		7,560.0		Entrada, Original Hole															
Perforated		9/25/2013		7,584.0		7,604.0		Entrada, Original Hole															
Perforated		9/18/2013		8,140.0		8,152.0		Upper Lyons, Original Hole															
Perforated		9/18/2013		8,170.0		8,184.0		Upper Lyons, Original Hole															
Perforated		9/6/2013		8,207.0		8,217.0		Lower Lyons, Original Hole															
Perforated		7/26/2013		9,874.0		9,880.0		Mississippian, Original Hole															
Perforated		7/26/2013		9,882.0		9,888.0		Mississippian, Original Hole															
Perforated		7/26/2013		9,891.0		9,897.0		Mississippian, Original Hole															
Perforated		7/17/2013		10,000.0		10,010.0		Precambrian, Original Hole															
Stim/Treat Stages																							
Stage Type		Start Date		Top (ftKB)		Btm (ftKB)		Stim/Treat Fluid				Vol Clean Pump (bbl)											
Tubing - Workstring set at 8,155.0ftKB on 9/6/2013 08:09																							
Set Depth (ftKB)		Comment								Run Date		Pull Date											
8,155.0										9/6/2013		9/17/2013											
Item Des		OD (in)		ID (in)		Len (ft)		Top (ftKB)		Btm (ftKB)													
Tubing		2 7/8		2.441		8,146.30		0.0		8,146.3													
Cup Seating Nipple		2 7/8				1.10		8,146.3		8,147.4													
Packer		2 7/8				7.60		8,147.4		8,155.0													
Rod Strings																							
<des> on <dtmrun>																							
Rod Description								Run Date			Pull Date												
Item Des		OD (in)		Len (ft)		Top (ftKB)		Btm (ftKB)															
Other Strings																							
Set Depth (ftKB)		Comment								Run Date		Pull Date											
Item Des		OD (in)		Len (ft)		Top (ftKB)		Btm (ftKB)															
Other In Hole																							
Des		OD (in)		Run Date		Pull Date		Top (ftKB)		Btm (ftKB)													
Cemented BP		4.892		10/7/2013				7,580.0		7,581.0													
Cemented BP		4.892		9/25/2013				8,120.0		8,121.0													
Cemented BP		4.892		9/17/2013				8,204.0		8,205.0													
Cemented BP		4.892		9/5/2013				9,860.0		9,874.0													
Cemented BP		4.892		7/25/2013				9,990.0		9,991.0													



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API Number	WPC ID	Well Permit Number	Field Name	County	State
051233737400	1CO076880		Wildcat	Weld	CO
Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Vertical	5,071.90	5,054.60			10,060.0
Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref
5/31/2013		Redtail Asset Group	Gary Nordlander	1,954.0	FSL
E/W Dist (ft)	E/W Ref	Lot	Quarter 1	Quarter 2	Quarter 3
613.0	FWL		NW	SW	
Section	Section Suffix	Section Type	Township	Township N/S Dir	Range
16			9 N		59
Range E/W Dir	Meridian				
W	6TH				

Vertical - Original Hole, 2/11/2014 2:29:40 PM					Bottom Hole Cores				
MD (ftKB)	TV D (ftKB)	n cl (°)	Vertical schematic (actual)	Logs	Date	Core #	Top (ftKB)	Btm (ftKB)	Recov (ft)
-1.0	-1.0	1.0			6/4/2013	1	6,187.0	6,273.0	
0.0	0.0	1.0			6/5/2013	2	6,504.0	6,597.0	
17.4	17.4	1.0			6/7/2013	3	7,525.0	7,586.0	
22.3	22.3	1.0			6/9/2013	4	8,150.0	8,243.0	
33.5	33.5	1.0			6/10/2013	5	8,180.0	8,243.0	
80.1	80.1	1.0			6/13/2013	6	9,250.0	9,255.0	4.0
1,560.7	1,560.8	2.4			6/15/2013	7	9,255.0	9,368.0	8.0
1,562.0	1,561.1	2.4			6/16/2013	8	9,368.0	9,400.0	17.0
1,606.0	1,606.0	2.6			6/17/2013	9	9,400.0	9,425.0	44.0
1,607.9	1,606.9	2.6			6/19/2013	10	9,438.0	9,479.0	34.0
1,608.3	1,607.3	2.6			6/20/2013	11	9,479.0	9,539.0	61.0
1,615.2	1,614.2	2.6			6/21/2013	12	9,539.0	9,633.0	93.8
6,800.2	6,797.9	0.4			6/22/2013	13	9,633.0	9,655.0	22.0
6,801.8	6,796.5	0.4			6/22/2013	14	9,655.0	9,700.0	43.0
6,802.2	6,796.8	0.4			6/23/2013	15	9,700.0	9,718.0	18.0
7,538.1	7,535.6	1.2			6/23/2013	16	9,718.0	9,775.0	
7,540.0	7,537.6	1.2			6/24/2013	17	9,775.0	9,810.0	34.0
7,544.0	7,541.5	1.2			6/25/2013	18	9,810.0	9,860.0	53.0
7,549.9	7,547.4	1.2			6/26/2013	19	9,860.0	9,873.0	7.6
7,551.8	7,549.4	1.2			6/28/2013	20	9,874.0	9,887.0	6.0
7,560.0	7,557.6	1.3			6/29/2013	21	9,887.0	9,895.0	4.5
7,580.1	7,577.6	1.5							
7,581.0	7,578.6	1.5							
7,584.0	7,581.5	1.5							
7,604.0	7,601.5	1.8							
8,120.1	8,115.0	2.9							
8,121.1	8,116.0	2.9							
8,140.1	8,135.0	2.8							
8,151.9	8,146.9	2.7							
8,169.9	8,164.8	2.2							
8,184.1	8,179.9	1.9							
8,204.1	8,198.9	1.9							
8,205.1	8,199.9	1.9							
8,207.0	8,201.9	1.9							
8,216.9	8,211.7	1.9							
9,859.9	9,853.2	1.5							
9,874.0	9,867.3	1.6							
9,879.9	9,873.2	1.6							
9,881.9	9,875.1	1.6							
9,888.1	9,881.4	1.6							
9,891.1	9,884.3	1.6							
9,897.0	9,892.2	1.6							
9,954.7	9,947.9	1.6							
9,956.4	9,949.6	1.7							
9,990.2	9,983.4	2.0							
9,991.1	9,984.3	2.1							
10,000.0	9,993.2	2.1							
10,001.0	9,994.2	2.1							
10,009.8	10,003.0	2.2							
10,045.6	10,038.8	2.2							
10,046.9	10,040.1	2.2							
10,060.0	10,053.2	2.2							