



Lease Review All
Well Name: WILDHORSE 02-0214H

API Number 051233550000				WPC ID 1CO076847				Well Permit Number				Field Name DJ Horizontal Niobrara				County Weld				State CO							
Well Configuration Type Lateral/Horizontal						Orig KB Elv (ft) 5,019.50				Ground Elevation (ft) 5,003.00				Casing Flange Elevation (ft)				Tubing Head Elevation (ft)				Total Depth (ftKB) 10,158.0					
Original Spud Date 8/13/2012				Completion Date 10/7/2012				Asset Group Central Rockies Asset Group				Responsible Engineer Gary Nordlander				N/S Dist (ft) 360.0				N/S Ref FNL		E/W Dist (ft) 740.0				E/W Ref FWL	
Lot 4		Quarter 1		Quarter 2		Quarter 3		Quarter 4		Section 2		Section Suffix		Section Type		Township 9 N		Township N/S Dir		Range 59		Range E/W Dir W		Meridian 6TH			

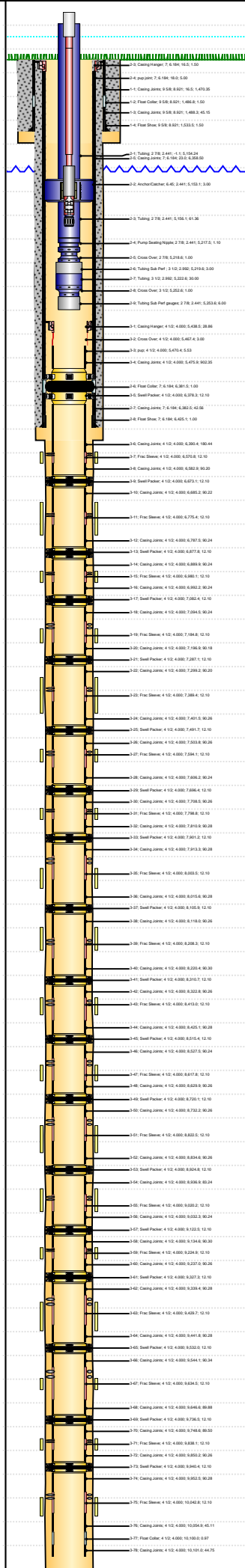
Lateral/Horizontal - Original Hole, 3/20/2013 10:25:36 AM					Wellbore Sections						
MD (ftKB)	TV D (ftKB)	In cl (°)	Vertical schematic (actual)	Logs	Wellbore Name		Start Date	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
-1.0	-1.0	1.4			Original Hole		8/13/2012	13 1/2	16.5	1,545.0	
5.9	5.9	1.4			Original Hole		8/15/2012	8 3/4	1,545.0	6,436.0	
18.0	18.1	1.4			Original Hole		8/19/2012	6	6,436.0	10,158.0	
1,486.9	1,486.6	1.3			Surface Csg, 1,535.0ftKB						
1,533.5	1,533.2	1.4									
1,544.9	1,544.7	1.5			OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
4,956.0	4,954.9	1.2			9 5/8	36.00	J-55	16.5	1,486.9	1,470.35	Casing Joints
5,155.8	5,154.7	0.4			9 5/8	36.00	J-55	1,486.9	1,488.4	1.50	Float Collar
5,180.1	5,179.0	0.4			9 5/8	36.00	J-55	1,488.4	1,533.5	45.15	Casing Joints
5,217.5	5,216.4	0.5			9 5/8			1,533.5	1,535.0	1.50	Float Shoe
5,219.5	5,218.3	0.5			Intermediate Csg, 6,426.1ftKB						
5,252.6	5,251.5	0.5			OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
5,259.5	5,258.4	0.5			7	29.00	L-80	16.5	16.5	0.00	Casing Joints
5,467.5	5,466.4	0.7			7	29.00	L-80	16.5	16.5	0.00	Landing Joint
5,476.0	5,474.9	0.7			7	29.00	L-80	16.5	18.0	1.50	Casing Hanger
6,381.6	6,380.9	85.4			7	29.00	L-80	18.0	23.0	5.00	pup joint
6,390.4	6,389.4	86.4			7	29.00	L-80	23.0	6,381.5	6,358.50	Casing Joints
6,426.2	6,425.0	89.4			7			6,381.5	6,382.5	1.00	Float Collar
6,570.9	6,569.7	93.5			7	29.00	L-80	6,382.5	6,425.1	42.56	Casing Joints
6,673.2	6,671.9	92.8			7			6,425.1	6,426.1	1.00	Float Shoe
6,774.9	6,773.6	89.1			Liner, 10,148.0ftKB						
6,787.4	6,786.1	88.9			OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
6,877.6	6,876.3	89.7			4 1/2			5,438.5	5,467.4	28.86	Casing Hanger
6,980.0	6,978.7	90.2			4 1/2			5,467.4	5,470.4	3.00	Cross Over
7,082.3	7,081.0	90.3			4 1/2	11.60	SE A-90	5,470.4	5,475.9	5.53	pup
7,184.7	7,183.4	89.5			4 1/2	11.60	SE A-90	5,475.9	6,378.3	902.35	Casing Joints
7,196.9	7,195.6	89.5			4 1/2	11.60		6,378.3	6,390.4	12.10	Swell Packer
7,299.2	7,297.9	88.8			4 1/2	11.60	SE A-90	6,390.4	6,570.8	180.44	Casing Joints
7,389.4	7,388.1	88.4			4 1/2	11.60		6,570.8	6,582.9	12.10	Frac Sleeve
7,401.9	7,400.6	88.3			4 1/2	11.60	SE A-90	6,582.9	6,673.1	90.20	Casing Joints
7,503.9	7,502.6	89.9			4 1/2	11.60		6,673.1	6,685.2	12.10	Swell Packer
7,606.0	7,604.7	91.1			4 1/2	11.60	SE A-90	6,685.2	6,775.4	90.22	Casing Joints
7,696.5	7,695.2	91.0			4 1/2	11.60		6,775.4	6,787.5	12.10	Frac Sleeve
7,798.9	7,797.6	91.0			4 1/2	11.60	SE A-90	6,787.5	6,877.8	90.24	Casing Joints
7,901.2	7,900.0	90.7			4 1/2	11.60		6,877.8	6,889.9	12.10	Swell Packer
8,003.6	8,002.3	89.4			4 1/2	11.60	SE A-90	6,889.9	6,980.1	90.24	Casing Joints
8,015.7	8,014.4	89.3			4 1/2	11.60		6,980.1	6,992.2	12.10	Frac Sleeve
8,106.0	8,104.7	89.4			4 1/2	11.60	SE A-90	6,992.2	7,082.4	90.24	Casing Joints
8,208.0	8,206.7	89.2			4 1/2	11.60		7,082.4	7,094.5	12.10	Swell Packer
8,220.1	8,218.8	89.3			4 1/2	11.60	SE A-90	7,094.5	7,184.8	90.24	Casing Joints
8,310.7	8,309.4	89.0			4 1/2	11.60		7,184.8	7,196.9	12.10	Frac Sleeve
8,413.1	8,411.8	91.0			4 1/2	11.60	SE A-90	7,196.9	7,287.1	90.18	Casing Joints
8,425.2	8,423.9	91.1			4 1/2	11.60		7,287.1	7,299.2	12.10	Swell Packer
8,527.6	8,526.3	91.8			4 1/2	11.60	SE A-90	7,299.2	7,389.4	90.20	Casing Joints
8,618.1	8,616.8	90.8			4 1/2	11.60		7,389.4	7,401.5	12.10	Frac Sleeve
8,720.1	8,718.8	90.0			4 1/2	11.60	SE A-90	7,401.5	7,491.7	90.26	Casing Joints
8,822.5	8,821.2	89.3			4 1/2	11.60		7,491.7	7,503.8	12.10	Swell Packer
8,834.6	8,833.3	89.3			4 1/2	11.60	SE A-90	7,503.8	7,594.1	90.26	Casing Joints
8,924.9	8,923.6	89.4			4 1/2	11.60		7,594.1	7,606.2	12.10	Frac Sleeve
9,020.0	9,018.7	89.3			4 1/2	11.60	SE A-90	7,606.2	7,696.4	90.24	Casing Joints
9,032.2	9,030.9	89.2			4 1/2	11.60		7,696.4	7,708.5	12.10	Swell Packer
9,134.5	9,133.2	88.3			4 1/2	11.60	SE A-90	7,708.5	7,798.8	90.26	Casing Joints
9,236.9	9,235.6	89.7			4 1/2	11.60		7,798.8	7,810.9	12.10	Frac Sleeve
9,339.2	9,337.9	88.9			4 1/2	11.60	SE A-90	7,810.9	7,901.2	90.28	Casing Joints
9,430.1	9,428.8	90.9			4 1/2	11.60		7,901.2	7,913.3	12.10	Swell Packer
9,441.9	9,440.6	91.3			4 1/2	11.60	SE A-90	7,913.3	8,003.5	90.28	Casing Joints
9,544.3	9,543.0	90.6			4 1/2	11.60		8,003.5	8,015.6	12.10	Frac Sleeve
9,634.8	9,633.5	89.7			4 1/2	11.60	SE A-90	8,015.6	8,105.9	90.28	Casing Joints
9,646.7	9,645.4	89.6			4 1/2	11.60		8,105.9	8,118.0	12.10	Swell Packer
9,748.7	9,747.4	89.6			4 1/2	11.60	SE A-90	8,118.0	8,208.3	90.26	Casing Joints
9,850.1	9,848.8	90.8			4 1/2	11.60		8,208.3	8,220.4	12.10	Frac Sleeve
9,952.4	9,951.1	89.9			4 1/2	11.60	SE A-90	8,220.4	8,310.7	90.30	Casing Joints
10,043.0	10,041.7	91.2			4 1/2	11.60		8,310.7	8,322.8	12.10	Swell Packer
10,055.1	10,053.8	91.5			4 1/2	11.60	SE A-90	8,322.8	8,413.0	90.26	Casing Joints
10,101.0	10,100.0	91.6			4 1/2	11.60		8,413.0	8,425.1	12.10	Frac Sleeve
10,148.0	10,147.0	91.5			4 1/2	11.60	SE A-90	8,425.1	8,515.4	90.28	Casing Joints
					4 1/2	11.60		8,515.4	8,527.5	12.10	Swell Packer
					4 1/2	11.60	SE A-90	8,527.5	8,617.8	90.24	Casing Joints
					4 1/2	11.60		8,617.8	8,629.9	12.10	Frac Sleeve
					4 1/2	11.60	SE A-90	8,629.9	8,720.1	90.26	Casing Joints
					4 1/2	11.60		8,720.1	8,732.2	12.10	Swell Packer
					4 1/2	11.60	SE A-90	8,732.2	8,822.5	90.26	Casing Joints

Report Printed: 3/20/2013



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Well Configuration Type Lateral/Horizontal						Orig KB Elv (ft) 5,019.50				Ground Elevation (ft) 5,003.00				Casing Flange Elevation (ft)				Tubing Head Elevation (ft)				Total Depth (ftKB) 10,158.0					
Original Spud Date 8/13/2012				Completion Date 10/7/2012				Asset Group Central Rockies Asset Group				Responsible Engineer Gary Nordlander				N/S Dist (ft) 360.0				N/S Ref FNL		E/W Dist (ft) 740.0				E/W Ref FWL	
Lot 4		Quarter 1		Quarter 2		Quarter 3		Quarter 4		Section 2		Section Suffix		Section Type		Township 9 N		Township N/S Dir		Range 59		Range E/W Dir W		Meridian 6TH			

Lateral/Horizontal - Original Hole, 3/20/2013 10:25:40 AM					Stim/Treat Stages											
MD (ftKB)	TV D (ftKB)	In cl (°)	Vertical schematic (actual)	Logs	Stage Type	Start Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid		Vol Clean Pump (bbl)					
-1.0	-1.0	1.4			Frac	10/3/2012	9,020.0	9,032.0	21507# 40/70 sd, 90068# 20/40 sd, 20988# 20/40 CRC, Slick Water		2789.00					
5.9	5.9	1.4			Frac	10/3/2012	9,225.0	9,237.0	23924# 40/70 sd, 90376# 20/40 sd, 17719# 20/40 CRC, Slick Water		2818.00					
18.0	18.1	1.4			Frac	10/3/2012	9,430.0	9,442.0	22923# 40/70 sd, 92738# 20/40 sd, 18739# 20/40 CRC, Slick Water		2808.00					
1,486.9	1,486.6	1.3			Frac	10/3/2012	9,635.0	9,646.0	19862# 40/70 sd, 89377# 20/40 sd, 19232# 20/40 CRC, Slick Water		2805.00					
1,533.5	1,533.2	1.4			Frac	10/3/2012	9,838.0	9,850.0	9997# 40/70 sd, 46767# 20/40 sd, 6538# 20/40 CRC, Slick Water		1588.00					
1,544.9	1,544.7	1.5			Frac	10/3/2012	10,043.0	10,055.0	38368# 40/70 sd, 88905# 20/40 sd, 20198# 20/40 CRC, Slick Water		4967.00					
4,956.0	4,954.9	1.2			Tubing - Production set at 5,259.6ftKB on 2/20/2013 07:00											
5,155.8	5,154.7	0.4			Set Depth (ftKB)		Comment		Run Date		Pull Date					
5,180.1	5,179.0	0.4			5,259.6				2/20/2013							
5,217.5	5,216.4	0.5			Item Des		OD (in)		ID (in)		Len (ft)		Top (ftKB)		Btm (ftKB)	
5,219.5	5,218.3	0.5			Tubing		2 7/8		2.441		5,154.24		-1.1		5,153.1	
5,252.6	5,251.5	0.5			Anchor/Catcher		6.45		2.441		3.00		5,153.1		5,156.1	
5,259.5	5,258.4	0.5			Tubing		2 7/8		2.441		61.36		5,156.1		5,217.5	
5,467.5	5,466.4	0.7			Pump Seating Nipple		2 7/8		2.441		1.10		5,217.5		5,218.6	
5,476.0	5,474.9	0.7			Cross Over		2 7/8				1.00		5,218.6		5,219.6	
6,381.6	6,130.9	85.4			Tubing Sub Perf		3 1/2		2.992		3.00		5,219.6		5,222.6	
6,390.4	6,131.5	86.4			Tubing		3 1/2		2.992		30.00		5,222.6		5,252.6	
6,426.2	6,132.0	89.4			Cross Over		3 1/2				1.00		5,252.6		5,253.6	
6,570.9	6,127.9	93.5			Tubing Sub Perf gauges		2 7/8		2.441		6.00		5,253.6		5,259.6	
6,673.2	6,121.5	92.8			D Rod on 2/22/2013 07:00											
6,774.9	6,119.4	89.1	Rod Description		Run Date		Pull Date									
6,787.4	6,119.6	88.9	D Rod		2/22/2013											
6,877.6	6,121.3	89.7	Item Des		OD (in)		Len (ft)		Top (ftKB)		Btm (ftKB)					
6,980.0	6,121.2	90.2	Polished Rod		1 1/2		26.00		-26.0		0.0					
7,082.3	6,121.6	90.3	Rod pony		7/8		6.00		0.0		6.0					
7,184.7	6,121.7	89.5	Sucker Rod		7/8		2,325.00		6.0		2,331.0					
7,196.9	6,121.8	89.5	Sucker Rod		3/4		2,625.00		2,331.0		4,956.0					
7,299.2	6,122.8	88.8	Sink Bar		1 1/2		200.00		4,956.0		5,156.0					
7,389.4	6,120.0	88.4	Rod Insert Pump RHBC		1 1/4		24.00		5,156.0		5,180.0					
7,401.9	6,125.4	88.3	Gas Anchor		1 1/4		20.00		5,180.0		5,200.0					
7,503.9	6,127.4	89.9	Other String Components													
7,606.0	6,126.1	91.1	Item Des		OD (in)		Len (ft)		Top (ftKB)		Btm (ftKB)					
7,696.5	6,124.1	91.0														
7,798.9	6,122.5	91.0	Other In Hole													
7,901.2	6,121.5	90.7	Des		OD (in)		Run Date		Pull Date		Top (ftKB)		Btm (ftKB)			
8,003.6	6,121.2	90.7														
8,015.7	6,121.3	89.3	Bottom Hole Cores													
8,106.0	6,122.4	89.4	Date		Core #		Top (ftKB)		Btm (ftKB)		Recov (ft)					
8,208.0	6,123.9	89.2														
8,220.1	6,124.1	89.3														
8,310.7	6,125.4	89.0														
8,413.1	6,125.3	91.0														
8,425.2	6,125.1	91.1														
8,527.6	6,122.1	91.8														
8,618.1	6,119.6	90.8														
8,720.1	6,118.6	90.0														
8,822.5	6,119.6	89.3														
8,834.6	6,119.8	89.3														
8,924.9	6,120.8	89.4														
9,020.0	6,121.7	89.3														
9,032.2	6,121.9	89.2														
9,134.5	6,123.9	88.3														
9,236.9	6,125.2	89.7														
9,339.2	6,126.7	88.9														
9,430.1	6,127.2	90.9														
9,441.9	6,126.9	91.3														
9,544.3	6,124.3	90.6														
9,634.8	6,124.4	89.7														
9,646.7	6,124.4	89.6														
9,748.7	6,124.9	89.6														
9,850.1	6,124.3	90.8														
9,952.4	6,124.5	89.9														
10,043.0	6,123.8	91.2														
10,055.1	6,123.5	91.5														
10,101.0	6,122.3	91.6														
10,148.0	6,121.0	91.5														