



Lease Review All
Well Name: WOLF 36-3624H

API Number 051233478700			WPC ID 1CO076841			Well Permit Number			Field Name Wildcat				County Weld			State CO				
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,940.00		Ground Elevation (ft) 4,925.00		Casing Flange Elevation (ft)			Tubing Head Elevation (ft)			Total Depth (ftKB) 10,300.0					
Original Spud Date 1/20/2012			Completion Date 4/6/2012		Asset Group Central Rockies Asset Group				Responsible Engineer Gary Nordlander				N/S Dist (ft) 330.0		N/S Ref FNL		E/W Dist (ft) 2,004.0		E/W Ref FWL	
Lot		Quarter 1 N	Quarter 2 E	Quarter 3 N	Quarter 4 W	Section 36	Section Suffix	Section Type		Township 10 N	Township N/S Dir		Range 59	Range E/W Dir W		Meridian 6TH				

Lateral/Horizontal - Original Hole, 7/3/2012 2:38:06 PM				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)
					Original Hole		1/20/2012	13 1/2	16.0	1,560.0
					Original Hole		1/21/2012	8 3/4	1,560.0	6,474.0
					Original Hole		1/26/2012	6	6,474.0	10,300.0
Surface Csg, 1,550.0ftKB										
OD (in)		Wt (lb/ft)		Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des		
9 5/8		36.00		K-55	16.0	16.0	0.00	Landing Joint		
9 5/8		36.00		K-55	16.0	1,549.0	1,533.00	Casing Joints		
9 5/8					1,549.0	1,550.0	1.00	Guide Shoe		
Intermediate Csg, 6,460.0ftKB										
OD (in)		Wt (lb/ft)		Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des		
7		29.00		HCL-80	16.0	16.0	0.00	Landing Joint		
7		29.00		HCL-80	16.0	20.0	4.00	Liner Hanger		
7		29.00		HCL-80	20.0	6,416.5	6,396.47	Casing Joints		
7				HCL-80	6,416.5	6,417.7	1.20	Float Collar		
7		29.00		HCL-80	6,417.7	6,458.4	40.73	Casing Joints		
7					6,458.4	6,460.0	1.60	Float Shoe		
Liner, 10,296.0ftKB										
OD (in)		Wt (lb/ft)		Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des		
4 1/2		11.60		S-90	5,707.8	5,707.8	0.00	Casing Joints		
					5,707.8	5,707.8	0.00			
4 1/2					5,707.8	5,707.8	0.00	Running tool		
6.184					5,707.8	5,720.0	12.19	Liner Top Packer		
4 1/2					5,720.0	5,734.1	14.12	Liner Hanger		
4 1/2		11.60		S-90	5,734.1	6,455.5	721.43	Casing Joints		
4 1/2					6,455.5	6,470.7	15.14	Swell Packer		
4 1/2		11.60		S-90	6,470.7	6,696.1	225.45	Casing Joints		
4 1/2					6,696.1	6,709.0	12.88	Frac Sleeve		
4 1/2		11.60		S-90	6,709.0	6,799.2	90.20	Casing Joints		
4 1/2					6,799.2	6,814.3	15.11	Swell Packer		
4 1/2		11.60		S-90	6,814.3	6,904.5	90.20	Casing Joints		
4 1/2					6,904.5	6,917.3	12.75	Frac Sleeve		
4 1/2		11.60		S-90	6,917.3	7,007.5	90.19	Casing Joints		
4 1/2					7,007.5	7,022.6	15.11	Swell Packer		
4 1/2		11.60		S-90	7,022.6	7,112.8	90.19	Casing Joints		
4 1/2					7,112.8	7,125.6	12.86	Frac Sleeve		
4 1/2		11.60		S-90	7,125.6	7,215.8	90.20	Casing Joints		
4 1/2					7,215.8	7,230.9	15.10	Swell Packer		
4 1/2		11.60		S-90	7,230.9	7,321.1	90.20	Casing Joints		
4 1/2					7,321.1	7,333.8	12.73	Frac Sleeve		
4 1/2		11.60		S-90	7,333.8	7,424.0	90.19	Casing Joints		
4 1/2					7,424.0	7,439.1	15.10	Swell Packer		
4 1/2		11.60		S-90	7,439.1	7,529.3	90.20	Casing Joints		
4 1/2					7,529.3	7,542.1	12.79	Frac Sleeve		
4 1/2		11.60		S-90	7,542.1	7,632.3	90.19	Casing Joints		
4 1/2					7,632.3	7,647.4	15.09	Swell Packer		
4 1/2		11.60		S-90	7,647.4	7,737.6	90.18	Casing Joints		
4 1/2					7,737.6	7,750.4	12.81	Frac Sleeve		
4 1/2		11.60		S-90	7,750.4	7,840.6	90.21	Casing Joints		
4 1/2					7,840.6	7,855.7	15.10	Swell Packer		
4 1/2		11.60		S-90	7,855.7	7,945.9	90.20	Casing Joints		
4 1/2					7,945.9	7,958.6	12.73	Frac Sleeve		
4 1/2		11.60		S-90	7,958.6	8,048.8	90.20	Casing Joints		
4 1/2					8,048.8	8,063.9	15.11	Swell Packer		
4 1/2		11.60		S-90	8,063.9	8,154.1	90.20	Casing Joints		
4 1/2					8,154.1	8,166.9	12.72	Frac Sleeve		
4 1/2		11.60		S-90	8,166.9	8,257.1	90.19	Casing Joints		
4 1/2					8,257.1	8,272.3	15.20	Swell Packer		
4 1/2		11.60		S-90	8,272.3	8,362.4	90.17	Casing Joints		
4 1/2					8,362.4	8,375.1	12.70	Frac Sleeve		
4 1/2		11.60		S-90	8,375.1	8,465.3	90.16	Casing Joints		
4 1/2					8,465.3	8,480.4	15.11	Swell Packer		
4 1/2		11.60		S-90	8,480.4	8,570.6	90.19	Casing Joints		
4 1/2					8,570.6	8,583.3	12.72	Frac Sleeve		
4 1/2		11.60		S-90	8,583.3	8,673.5	90.16	Casing Joints		
4 1/2					8,673.5	8,688.6	15.11	Swell Packer		
4 1/2		11.60		S-90	8,688.6	8,778.8	90.20	Casing Joints		
4 1/2					8,778.8	8,791.5	12.68	Frac Sleeve		
4 1/2		11.60		S-90	8,791.5	8,881.7	90.20	Casing Joints		
4 1/2					8,881.7	8,896.8	15.11	Swell Packer		
4 1/2		11.60		S-90	8,896.8	8,987.0	90.20	Casing Joints		
4 1/2					8,987.0	8,999.7	12.75	Frac Sleeve		



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Original Spud Date 1/20/2012		Completion Date 4/6/2012		Asset Group Central Rockies Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 330.0		N/S Ref FNL	E/W Dist (ft) 2,004.0	E/W Ref FWL
Lot	Quarter 1 N	Quarter 2 E	Quarter 3 N	Quarter 4 W	Section 36	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 59	Range E/W Dir W	Meridian 6TH		

Lateral/Horizontal - Original Hole, 7/3/2012 2:38:08 PM				OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des								
MD (ftKB)	TV D (ftKB B)	In cl (°)	Vertical schematic (actual)	Logs	4 1/2	11.60	S-90	8,999.7	9,089.8	90.12	Casing Joints							
					4 1/2			9,089.8	9,105.0	15.12	Swell Packer							
					4 1/2	11.60	S-90	9,105.0	9,195.1	90.16	Casing Joints							
0.0	0.0	0.0				4 1/2	11.60	S-90	9,195.1	9,207.8	12.72	Frac Sleeve						
19.0	19.0	0.0				4 1/2	11.60	S-90	9,207.8	9,298.0	90.18	Casing Joints						
21.0	21.0	0.0				4 1/2			9,298.0	9,313.1	15.12	Swell Packer						
1,287.1	1,287.1	0.6				4 1/2	11.60	S-90	9,313.1	9,403.3	90.17	Casing Joints						
1,507.9	1,507.8	1.0				4 1/2			9,403.3	9,416.1	12.75	Frac Sleeve						
1,549.9	1,549.8	1.1				4 1/2	11.60	S-90	9,416.1	9,506.2	90.19	Casing Joints						
2,426.8	2,426.7	0.8				4 1/2			9,506.2	9,521.4	15.12	Swell Packer						
5,551.8	5,551.5	0.2				4 1/2	11.60	S-90	9,521.4	9,611.5	90.18	Casing Joints						
5,594.8	5,594.5	0.1				4 1/2			9,611.5	9,624.2	12.68	Frac Sleeve						
5,707.7	5,707.3	3.1				4 1/2	11.60	S-90	9,624.2	9,714.4	90.21	Casing Joints						
5,724.7	5,724.3	4.6				4 1/2			9,714.4	9,729.6	15.12	Swell Packer						
5,730.0	5,729.6	5.1				4 1/2	11.60	S-90	9,729.6	9,819.8	90.20	Casing Joints						
5,737.9	5,737.4	5.9				4 1/2			9,819.8	9,832.5	12.71	Frac Sleeve						
5,761.5	5,760.8	8.4				4 1/2	11.60	S-90	9,832.5	9,922.6	90.18	Casing Joints						
5,898.0	5,892.0	21.9				4 1/2			9,922.6	9,937.8	15.12	Swell Packer						
5,951.1	5,940.6	26.0				4 1/2	11.60	S-90	9,937.8	10,028.0	90.20	Casing Joints						
6,001.0	5,984.5	30.5				4 1/2			10,028.0	10,040.7	12.71	Frac Sleeve						
6,051.8	6,027.1	35.3				4 1/2	11.60	S-90	10,040.7	10,130.9	90.18	Casing Joints						
6,173.9	6,119.1	47.0				4 1/2			10,130.9	10,146.0	15.11	Swell Packer						
6,207.0	6,140.8	51.3				4 1/2	11.60	S-90	10,146.0	10,236.1	90.18	Casing Joints						
6,238.8	6,159.7	55.8				4 1/2			10,236.1	10,248.8	12.68	Frac Sleeve						
6,417.0	6,227.5	80.6				4 1/2	11.60	S-90	10,248.8	10,293.9	45.10	Casing Joints						
6,455.4	6,231.3	84.5				4 1/2			10,293.9	10,294.8	0.85	Float Collar						
6,460.0	6,231.7	85.0				4 1/2			10,294.8	10,296.0	1.23	Guide Shoe						
6,474.1	6,232.8	86.2				Cement Stages												
6,709.0	6,233.1	90.7				Des		Pump Start Date		Drill Out Date		Top (ftKB)		Btm (ftKB)		Top Meas Meth		
6,814.3	6,232.8	89.9				Surface Casing Cement		1/21/2012		1/21/2012		16.0		1,550.0		Volume Calculations		
6,917.3	6,232.6	90.0				Intermediate Casing Cement		1/26/2012		1/27/2012		16.0		6,460.0		Volume Calculations		
7,022.6	6,232.8	89.8				Perforations												
7,125.7	6,233.0	90.0				Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone				
7,231.0	6,232.7	90.7																
7,333.7	6,231.5	90.5				Stim/Treat Stages												
7,423.9	6,230.8	90.1				Stage Type		Start Date		Top (ftKB)		Btm (ftKB)		Stim/Treat Fluid			Vol Clean Pump (bbl)	
7,529.2	6,230.3	90.3				Frac		3/27/2012		6,696.1		6,709.0		88579# 20/40, 22020# 40/70 sand, 21486# SBExcel, Slick Water			2738.00	
7,632.2	6,229.7	90.6				Frac		3/27/2012		6,904.5		6,917.3		82160# 20/40, 21992# 40/70 sand, 19299# SBExcel, Slick Water			2519.00	
7,737.5	6,228.5	90.0				Frac		3/27/2012		7,112.8		7,125.6		92350# 20/40, 19998# 40/70 sand, 20441# SBExcel, Slick Water			2599.00	
7,840.6	6,229.1	89.9				Frac		3/27/2012		7,321.1		7,333.8		83251# 20/40, 20016# 40/70 sand, 19723# SBExcel, Slick Water			2459.00	
7,945.9	6,228.4	90.4				Frac		3/26/2012		7,529.3		7,542.1		86113# 20/40, 20003# 40/70 sand, 20449# SBExcel, Slick Water			2486.00	
8,048.9	6,228.2	91.6				Frac		3/26/2012		7,737.6		7,750.4		85242# 20/40, 20008# 40/70 sand, 20009# SBExcel, Slick Water			2538.00	
8,154.2	6,223.0	91.5				Frac		3/26/2012		7,945.9		7,958.6		85089# 20/40, 20002# 40/70 sand, 18504# SBExcel, Slick Water			2503.00	
8,256.9	6,222.1	89.9				Frac		3/26/2012		8,154.1		8,166.9		85021# 20/40, 19985# 40/70 sand, 20055# SBExcel, Slick Water			2484.00	
8,362.5	6,222.1	90.2				Frac		3/26/2012		8,362.4		8,375.1		85503# 20/40, 19997# 40/70 sand, 20043# SBExcel, Slick Water			2504.00	
8,465.2	6,221.8	90.8				Frac		3/26/2012		8,570.6		8,583.3		86139# 20/40, 19987# 40/70 sand, 20075# SBExcel, Slick Water			2528.00	
8,570.5	6,220.7	90.5				Frac		3/26/2012		8,778.8		8,791.5		84187# 20/40, 20025# 40/70 sand, 19944# SBExcel, Slick Water			2526.00	
8,673.6	6,220.7	88.3				Frac		3/26/2012		8,987.0		8,999.7		85092# 20/40, 19986# 40/70 sand, 20045# SBExcel, Slick Water			2513.00	
8,778.9	6,224.5	88.0				Frac		3/26/2012		9,195.1		9,207.8		85442# 20/40, 19986# 40/70 sand, 20040# SBExcel, Slick Water			2533.00	
8,881.6	6,227.3	89.1																
8,986.9	6,227.7	90.3																
9,089.9	6,226.4	90.5																
9,195.2	6,227.5	89.3																
9,297.9	6,227.8	90.3																
9,403.2	6,226.8	91.0																
9,506.2	6,225.5	90.9																
9,611.5	6,223.4	91.8																
9,714.6	6,215.9	95.2																
9,819.9	6,208.7	92.6																
9,922.6	6,205.3	90.7																
10,027.9	6,204.6	89.6																
10,130.9	6,204.8	90.2																
10,236.2	6,204.6	89.3																
10,294.0	6,205.0	89.7																
10,295.9	6,205.0	89.7																



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Original Spud Date 1/20/2012			Completion Date 4/6/2012		Asset Group Central Rockies Asset Group				Responsible Engineer Gary Nordlander			N/S Dist (ft) 330.0		N/S Ref FNL		E/W Dist (ft) 2,004.0		E/W Ref FWL
Lot	Quarter 1 N	Quarter 2 E	Quarter 3 N	Quarter 4 W	Section 36	Section Suffix	Section Type		Township 10 N		Township N/S Dir	Range	59 W		Range E/W Dir		Meridian 6TH	

Lateral/Horizontal - Original Hole, 7/3/2012 2:38:10 PM				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)
0.0	0.0	0.0	Tubing - Production set at 5,761.6ftKB on 6/18/2012 14:00							
5,551.8	5,551.5	0.2			Set Depth (ftKB)	Comment				Run Date
5,594.8	5,594.5	0.1			5,761.6					6/18/2012
5,707.7	5,707.3	3.1			Item Des	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
5,724.7	5,724.3	4.6			Tubing	2 7/8	2.441	5,591.72	0.0	5,591.7
5,730.0	5,729.6	5.1			Anchor/Catcher	6 1/2	2.441	3.10	5,591.7	5,594.8
5,737.9	5,737.4	5.9			Tubing	2 7/8	2.441	130.04	5,594.8	5,724.9
5,761.5	5,760.8	8.4			Pump Seating Nipple	2 7/8		1.10	5,724.9	5,726.0
5,898.0	5,892.0	21.9			Perforated Joint	2 7/8	2.441	4.00	5,726.0	5,730.0
5,951.1	5,940.6	26.0			Gas Anchor	2 7/8	2.441	31.00	5,730.0	5,761.0
6,001.0	5,984.5	30.5			Barred Collar	2 7/8	2.441	0.60	5,761.0	5,761.6
6,051.8	6,027.1	35.3			D Rod Norris 78 on 6/20/2012 07:00					
6,173.9	6,119.1	47.0			Rod Description					Run Date
6,207.0	6,140.8	51.3			D Rod Norris 78					6/20/2012
6,238.8	6,159.7	55.8			Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)	
6,417.0	6,227.5	80.6			Polished Rod	1 1/2	26.00	-7.0	19.0	
6,455.4	6,231.3	84.5			Pony Rod	7/8	2.00	19.0	21.0	
6,460.0	6,231.7	85.0			Pony Rod	7/8	6.00	21.0	27.0	
6,474.1	6,232.8	86.2			Sucker Rod	7/8	2,400.00	27.0	2,427.0	
6,709.0	6,233.1	90.7			Sucker Rod	3/4	3,125.00	2,427.0	5,552.0	
6,814.3	6,232.8	89.9		Sinker Bar	1 1/2	150.00	5,552.0	5,702.0		
6,917.3	6,232.6	90.0		Rod Insert Pump RHBC	1 3/4	24.00	5,702.0	5,726.0		
7,022.6	6,232.8	89.8		Gas Anchor	1 1/4	12.00	5,726.0	5,738.0		
7,125.7	6,233.0	90.0		Other String Components						
7,231.0	6,232.7	90.7		Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)		
7,333.7	6,231.5	90.5								
7,423.9	6,230.8	90.1		Other In Hole						
7,529.2	6,230.3	90.3		Des	OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)	
7,632.2	6,229.7	90.6								
7,737.5	6,228.5	90.0		Bottom Hole Cores						
7,840.6	6,229.1	89.9		Date	Core #	Top (ftKB)	Btm (ftKB)	Recov (ft)		
7,945.9	6,228.4	90.4								
8,048.9	6,228.2	91.6								
8,154.2	6,223.0	91.5								
8,256.9	6,222.1	89.9								
8,362.5	6,222.1	90.2								
8,465.2	6,221.8	90.8								
8,570.5	6,220.7	90.5								
8,673.6	6,220.7	88.3								
8,778.9	6,224.5	88.0								
8,881.6	6,227.3	89.1								
8,986.9	6,227.7	90.3								
9,089.9	6,226.4	90.5								
9,195.2	6,227.5	89.3								
9,297.9	6,227.8	90.3								
9,403.2	6,226.8	91.0								
9,506.2	6,225.5	90.9								
9,611.5	6,223.4	91.8								
9,714.6	6,215.9	95.2								
9,819.9	6,208.7	92.6								
9,922.6	6,205.3	90.7								
10,027.9	6,204.6	89.6								
10,130.9	6,204.8	90.2								
10,236.2	6,204.6	89.3								
10,294.0	6,205.0	89.7								
10,295.9	6,205.0	89.7								