



## Lease Review All

### Well Name: TWOMILE 15-1033AH

API Number 051233487700		WPC ID 1CO076851		Well Permit Number		Field Name Wildcat		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,928.50		Ground Elevation (ft) 4,912.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,278.0	
Original Spud Date 9/9/2012		Completion Date 10/23/2012		Asset Group Central Rockies Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 422.0	N/S Ref FSL	E/W Dist (ft) 1,997.0	E/W Ref FEL
Lot	Quarter 1 SW	Quarter 2 SE	Quarter 3	Quarter 4	Section 15	Section Suffix	Section Type	Township 11 N	Township N/S Dir	Range 57 W	Meridian 6TH

Lateral/Horizontal - Original Hole, 3/20/2013 10:22:26 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)		
84.0	84.0	0.7			Original Hole	9/9/2012	13 1/2	16.5	1,548.0		
148.6	148.6	0.9			Original Hole	9/10/2012	8 3/4	1,548.0	6,095.0		
1,531.8	1,531.3	1.1			Original Hole	9/14/2012	6	6,095.0	12,278.0		
4,773.0	4,772.0	1.0			<b>Surface Csg, 1,531.9ftKB</b>						
4,873.0	4,872.0	0.8			OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
4,908.8	4,907.8	0.7			9 5/8	36.00	J-55	16.5	1,483.7	1,467.27	Casing Joints
6,061.0	6,061.4	89.9			9 5/8			1,483.7	1,485.2	1.50	Guide Shoe
6,188.0	6,188.0	91.5			9 5/8	36.00	J-55	1,485.2	1,530.4	45.17	Casing Joints
6,292.3	6,292.3	93.6			9 5/8			1,530.4	1,531.9	1.50	Float Shoe
6,386.2	6,386.1	94.5			<b>Intermediate Csg, 6,085.0ftKB</b>						
6,584.0	6,583.1	95.2			OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
6,770.0	6,770.7	93.0			7	29.00	HCL-80	0.0	83.9	83.95	Landing Joint
6,876.6	6,876.4	93.5	7	29.00	HCL-80	83.9	126.1	42.21	Casing Joints		
6,969.2	6,969.4	93.6	7	29.00	HCL-80	126.1	142.1	16.00	Landing Joint		
7,152.2	7,152.7	92.7	7	29.00	HCL-80	142.1	143.6	1.50	Casing Hanger		
7,260.5	7,260.4	93.8	7	29.00	HCL-80	143.6	148.6	5.00	Pup Joint		
7,354.0	7,353.8	93.6	7	29.00	HCL-80	148.6	6,039.8	5,891.20	Casing Joints		
7,537.4	7,537.3	92.8	7	29.00	HCL-80	6,039.8	6,041.3	1.50	Float Collar		
7,646.0	7,645.5	89.9	7	29.00	HCL-80	6,041.3	6,083.5	42.17	Casing Joints		
7,839.2	7,839.8	89.3	7	29.00	HCL-80	6,083.5	6,085.0	1.50	Guide Shoe		
8,011.5	8,011.2	88.8	<b>Liner, 12,268.0ftKB</b>								
8,122.0	8,122.2	89.4	OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des		
8,303.1	8,303.9	88.5	4 1/2	11.60	P-110	4,872.9	4,872.9	0.00	Casing Joints		
8,414.7	8,414.1	88.2	4 1/2			4,872.9	4,872.9	0.00	3 1/2" IF X 4" XT39 X/O		
8,595.5	8,595.2	90.4	4 1/2			4,872.9	4,872.9	0.00	STICK UP ON 2RH RUNNING TOOL		
8,704.1	8,704.7	91.5	4 1/2			4,872.9	4,885.1	12.23	POLISHED BORE RECEPTICAL		
8,886.2	8,886.2	91.9	4 1/2			4,885.1	4,893.6	8.49	ZXP LINER TOP PACKER		
9,068.9	9,068.2	89.4	4 1/2			4,893.6	4,900.4	6.80	HMC LINER HANGER		
9,253.6	9,253.9	90.1	4 1/2			4,900.4	4,909.0	8.52	LOWER PUP JOINT & COLLAR		
9,350.4	9,350.9	90.0	4 1/2	11.60	P-110	4,909.0	6,048.8	1,139.85	1 JNT. 4.5" 11.6# P110 LTC		
9,542.3	9,542.2	90.2	4 1/2			6,048.8	6,060.9	12.10	RE OIL SWELL PACKER # 32		
9,649.6	9,649.1	89.7	4 1/2	11.60	P-110	6,060.9	6,187.9	126.98	1 JNT. 4.5" 11.6# P110 LTC		
9,841.9	9,841.7	88.6	4 1/2			6,187.9	6,199.9	12.06	FRAC SLEEVE 3.625"		
9,944.6	9,944.6	90.3	4 1/2	11.60	P-110	6,199.9	6,280.2	80.25	1 JNT. 4.5" 11.6# P110 LTC		
10,058.1	10,058.3	90.3	4 1/2			6,280.2	6,292.3	12.14	RE OIL SWELL PACKER # 31		
10,244.1	10,244.9	89.5	4 1/2	11.60	P-110	6,292.3	6,373.7	81.35	1 JNT. 4.5" 11.6# P110 LTC		
10,355.3	10,355.0	89.8	4 1/2			6,373.7	6,385.7	12.03	FRAC SLEEVE 3.500"		
10,450.1	10,450.0	90.1	4 1/2	11.60	P-110	6,385.7	6,472.3	86.60	1 JNT. 4.5" 11.6# P110 LTC		
10,627.3	10,627.5	92.3	4 1/2			6,472.3	6,484.4	12.12	RE OIL SWELL PACKER # 30		
10,816.9	10,816.6	92.8	4 1/2	11.60	P-110	6,484.4	6,571.9	87.50	1 JNT. 4.5" 11.6# P110 LTC		
10,912.7	10,912.3	91.6	4 1/2			6,571.9	6,584.0	12.09	FRAC SLEEVE 3.375"		
11,021.7	11,021.4	88.1	4 1/2	11.60	P-110	6,584.0	6,670.7	86.72	1 JNT. 4.5" 11.6# P110 LTC		
11,199.8	11,199.9	87.2	4 1/2			6,670.7	6,682.9	12.12	RE OIL SWELL PACKER # 29		
11,308.4	11,308.2	88.5	4 1/2	11.60	P-110	6,682.9	6,769.6	86.69	1 JNT. 4.5" 11.6# P110 LTC		
11,501.6	11,501.6	87.9	4 1/2			6,769.6	6,781.6	12.07	FRAC SLEEVE 3.250"		
11,599.1	11,599.2	88.1	4 1/2	11.60	P-110	6,781.6	6,864.4	82.81	1 JNT. 4.5" 11.6# P110 LTC		
11,784.1	11,784.0	90.4	4 1/2			6,864.4	6,876.6	12.13	RE OIL SWELL PACKER # 28		
11,887.1	11,887.1	90.2	4 1/2	11.60	P-110	6,876.6	6,956.7	80.12	1 JNT. 4.5" 11.6# P110 LTC		
12,070.2	12,070.5	89.7	4 1/2			6,956.7	6,968.8	12.11	FRAC SLEEVE 3.125"		
12,181.1	12,181.9	89.7	4 1/2	11.60	P-110	6,968.8	7,051.0	82.24	1 JNT. 4.5" 11.6# P110 LTC		
12,268.0	12,268.1	89.9	4 1/2			7,051.0	7,063.1	12.11	RE OIL SWELL PACKER # 27		
			4 1/2	11.60	P-110	7,063.1	7,152.3	89.18	1 JNT. 4.5" 11.6# P110 LTC		



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### Well Name: TWOMILE 15-1033AH

API Number 051233487700		WPC ID 1CO076851		Well Permit Number		Field Name Wildcat		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,928.50		Ground Elevation (ft) 4,912.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,278.0	
Original Spud Date 9/9/2012		Completion Date 10/23/2012		Asset Group Central Rockies Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 422.0	N/S Ref FSL	E/W Dist (ft) 1,997.0	E/W Ref FEL
Lot	Quarter 1 SW	Quarter 2 SE	Quarter 3	Quarter 4	Section 15	Section Suffix	Section Type	Township 11 N	Township N/S Dir	Range 57 W	Meridian 6TH

Lateral/Horizontal - Original Hole, 3/20/2013 10:22:28 AM				OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
MD (ftKB)	TV D (ftKB)	Incl (°)	Vertical schematic (actual)	Logs						



## Lease Review All

### Well Name: TWOMILE 15-1033AH

API Number 051233487700		WPC ID 1C0076851		Well Permit Number		Field Name Wildcat		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,928.50		Ground Elevation (ft) 4,912.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,278.0	
Original Spud Date 9/9/2012		Completion Date 10/23/2012		Asset Group Central Rockies Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 422.0	N/S Ref FSL	E/W Dist (ft) 1,997.0	E/W Ref FEL
Lot	Quarter 1 SW	Quarter 2 SE	Quarter 3	Quarter 4	Section 15	Section Suffix	Section Type	Township 11 N	Township N/S Dir	Range 57 W	Meridian 6TH

Lateral/Horizontal - Original Hole, 3/20/2013 10:22:29 AM				OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des	
MD (ftKB)	TV D (ftKB)	Incl (°)	Vertical schematic (actual)	Logs							
						4 1/2		9,253.5	9,265.6	12.08	FRAC SLEEVE 2.313"
						4 1/2	11.60	9,265.6	9,350.3	84.69	1 JNT. 4.5" 11.6# P110 LTC
84.0	84.0	0.7				4 1/2		9,350.3	9,362.4	12.11	RE OIL SWELL PACKER # 15
148.6	148.6	0.9				4 1/2	11.60	9,362.4	9,446.0	83.61	1 JNT. 4.5" 11.6# P110 LTC
1,531.8	1,531.3	1.1				4 1/2		9,446.0	9,458.1	12.08	FRAC SLEEVE 2.250"
4,773.0	4,772.0	1.0				4 1/2	11.60	9,458.1	9,542.3	84.18	1 JNT. 4.5" 11.6# P110 LTC
4,873.0	4,872.0	0.9				4 1/2		9,542.3	9,554.4	12.12	RE OIL SWELL PACKER # 14
4,908.8	4,907.8	0.7				4 1/2	11.60	9,554.4	9,637.7	83.27	1 JNT. 4.5" 11.6# P110 LTC
6,061.0	5,661.4	89.9				4 1/2		9,637.7	9,649.8	12.10	FRAC SLEEVE 2.188"
6,188.0	5,660.0	91.5				4 1/2	11.60	9,649.8	9,740.0	90.22	1 JNT. 4.5" 11.6# P110 LTC
6,292.3	5,654.8	93.6				4 1/2		9,740.0	9,752.1	12.11	RE OIL SWELL PACKER # 13
6,386.2	5,648.1	94.5				4 1/2	11.60	9,752.1	9,842.3	90.21	1 JNT. 4.5" 11.6# P110 LTC
6,584.0	5,636.1	95.2				4 1/2		9,842.3	9,854.4	12.09	FRAC SLEEVE 2.125"
6,770.0	5,624.7	93.0				4 1/2	11.60	9,854.4	9,944.6	90.24	1 JNT. 4.5" 11.6# P110 LTC
6,876.6	5,618.4	93.5				4 1/2		9,944.6	9,956.7	12.11	RE OIL SWELL PACKER # 12
6,969.2	5,613.4	94.0				4 1/2	11.60	9,956.7	10,046.4	89.61	1 JNT. 4.5" 11.6# P110 LTC
7,152.2	5,603.3	92.7				4 1/2		10,046.4	10,058.4	12.07	FRAC SLEEVE 2.063"
7,260.5	5,594.8	93.8				4 1/2	11.60	10,058.4	10,146.9	88.50	1 JNT. 4.5" 11.6# P110 LTC
7,354.0	5,588.8	93.6				4 1/2		10,146.9	10,159.0	12.11	RE OIL SWELL PACKER # 11
7,537.4	5,578.3	92.8				4 1/2	11.60	10,159.0	10,244.0	84.97	1 JNT. 4.5" 11.6# P110 LTC
7,646.0	5,576.5	89.9				4 1/2		10,244.0	10,256.1	12.09	FRAC SLEEVE 2.000"
7,839.2	5,576.8	89.3				4 1/2	11.60	10,256.1	10,343.3	87.17	1 JNT. 4.5" 11.6# P110 LTC
8,011.5	5,580.2	88.8				4 1/2		10,343.3	10,355.4	12.12	RE OIL SWELL PACKER # 10
8,122.0	5,582.2	89.4				4 1/2	11.60	10,355.4	10,437.8	82.42	1 JNT. 4.5" 11.6# P110 LTC
8,303.1	5,582.9	88.5				4 1/2		10,437.8	10,449.9	12.08	FRAC SLEEVE 1.938"
8,414.7	5,586.1	88.2				4 1/2	11.60	10,449.9	10,531.3	81.40	1 JNT. 4.5" 11.6# P110 LTC
8,595.5	5,588.2	90.4				4 1/2		10,531.3	10,543.4	12.12	RE OIL SWELL PACKER # 9
8,704.1	5,587.8	91.5			4 1/2	11.60	10,543.4	10,627.1	83.74	1 JNT. 4.5" 11.6# P110 LTC	
8,886.2	5,582.2	91.9			4 1/2		10,627.1	10,639.3	12.12	FRAC SLEEVE 1.875"	
9,068.9	5,580.1	89.4			4 1/2	11.60	10,639.3	10,723.8	84.51	1 JNT. 4.5" 11.6# P110 LTC	
9,253.6	5,581.9	90.1			4 1/2		10,723.8	10,735.9	12.13	RE OIL SWELL PACKER # 8	
9,350.4	5,581.9	90.0			4 1/2	11.60	10,735.9	10,817.1	81.24	1 JNT. 4.5" 11.6# P110 LTC	
9,542.3	5,581.2	90.2			4 1/2		10,817.1	10,829.3	12.11	FRAC SLEEVE 1.813"	
9,649.6	5,581.1	89.7			4 1/2	11.60	10,829.3	10,912.8	83.59	1 JNT. 4.5" 11.6# P110 LTC	
9,841.9	5,580.7	88.6			4 1/2		10,912.8	10,925.0	12.12	RE OIL SWELL PACKER # 7	
9,944.6	5,581.6	90.3			4 1/2	11.60	10,925.0	11,009.4	84.46	1 JNT. 4.5" 11.6# P110 LTC	
10,058.1	5,581.3	90.3			4 1/2		11,009.4	11,021.5	12.12	FRAC SLEEVE 1.750"	
10,244.1	5,579.9	89.5			4 1/2	11.60	11,021.5	11,106.3	84.78	1 JNT. 4.5" 11.6# P110 LTC	
10,355.3	5,581.0	89.8			4 1/2		11,106.3	11,118.4	12.10	RE OIL SWELL PACKER # 6	
10,450.1	5,581.0	90.1			4 1/2	11.60	11,118.4	11,199.8	81.35	1 JNT. 4.5" 11.6# P110 LTC	
10,627.3	5,577.5	92.3			4 1/2		11,199.8	11,211.9	12.12	FRAC SLEEVE 1.688"	
10,816.9	5,567.6	92.8			4 1/2	11.60	11,211.9	11,296.2	84.31	1 JNT. 4.5" 11.6# P110 LTC	
10,912.7	5,563.2	91.6			4 1/2		11,296.2	11,308.3	12.14	RE OIL SWELL PACKER # 5	
11,021.7	5,562.4	88.1			4 1/2	11.60	11,308.3	11,396.1	87.77	1 JNT. 4.5" 11.6# P110 LTC	
11,199.8	5,571.9	87.2			4 1/2						
11,308.4	5,576.2	88.5			4 1/2						
11,501.6	5,582.6	87.9			4 1/2	11.60					
11,599.1	5,586.2	88.1			4 1/2						
11,784.1	5,580.0	90.4			4 1/2	11.60					
11,887.1	5,588.1	90.2			4 1/2						
12,070.2	5,588.5	89.7			4 1/2						
12,181.1	5,588.9	89.7			4 1/2	11.60					
12,268.0	5,589.1	89.9			4 1/2						



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### Well Name: TWOMILE 15-1033AH

API Number 051233487700		WPC ID 1C0076851		Well Permit Number		Field Name Wildcat		County Weld		State CO	
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Original Spud Date 9/9/2012		Completion Date 10/23/2012		Asset Group Central Rockies Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 422.0	N/S Ref FSL	E/W Dist (ft) 1,997.0	E/W Ref FEL
Lot	Quarter 1 SW	Quarter 2 SE	Quarter 3	Quarter 4	Section 15	Section Suffix	Section Type	Township 11 N	Township N/S Dir	Range 57 W	Meridian 6TH

Lateral/Horizontal - Original Hole, 3/20/2013 10:22:31 AM				OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des	
MD (ftKB)	TV D (ftKB)	In cl (°)	Vertical schematic (actual)	Logs							
84.0	84.0	0.7		4 1/2			11,396.1	11,408.2	12.07	FRAC SLEEVE 1.625"	
148.6	148.6	0.9		4 1/2	11.60	P-110	11,408.2	11,489.6	81.37	1 JNT. 4.5" 11.6# P110 LTC	
1,531.8	1,531.3	1.1		4 1/2			11,489.6	11,501.7	12.11	RE OIL SWELL PACKER # 4	
4,773.0	4,772.0	1.0		4 1/2	11.60	P-110	11,501.7	11,586.6	84.93	1 JNT. 4.5" 11.6# P110 LTC	
4,873.0	4,872.0	0.9		4 1/2			11,586.6	11,598.7	12.09	FRAC SLEEVE 1.500" DB	
4,908.8	4,907.8	0.7		4 1/2	11.60	P-110	11,598.7	11,685.4	86.73	1 JNT. 4.5" 11.6# P110 LTC	
6,061.0	6,061.4	89.9		4 1/2			11,685.4	11,697.5	12.10	RE OIL SWELL PACKER # 3	
6,188.0	6,061.0	91.5		4 1/2	11.60	P-110	11,697.5	11,783.5	85.94	1 JNT. 4.5" 11.6# P110 LTC	
6,292.3	6,061.0	93.6		4 1/2			11,783.5	11,795.5	12.08	FRAC SLEEVE 1.375" DB	
6,386.2	6,061.0	94.5		4 1/2	11.60	P-110	11,795.5	11,874.9	79.36	1 JNT. 4.5" 11.6# P110 LTC	
6,584.0	6,061.0	95.2		4 1/2			11,874.9	11,887.0	12.09	RE OIL SWELL PACKER # 2	
6,770.0	6,061.0	93.0		4 1/2	11.60	P-110	11,887.0	11,973.8	86.85	1 JNT. 4.5" 11.6# P110 LTC	
6,876.6	6,061.0	93.5		4 1/2			11,973.8	11,985.9	12.11	FRAC SLEEVE 1.250" DB	
6,969.2	6,061.0	94.0		4 1/2	11.60	P-110	11,985.9	12,070.1	84.12	1 JNT. 4.5" 11.6# P110 LTC	
7,152.2	6,061.0	92.7		4 1/2			12,070.1	12,082.2	12.11	RE OIL SWELL PACKER # 1	
7,260.5	6,061.0	93.8		4 1/2	11.60	P-110	12,082.2	12,169.2	87.00	1 JNT. 4.5" 11.6# P110 LTC	
7,354.0	6,061.0	93.6		4 1/2			12,169.2	12,181.2	12.07	FRAC SLEEVE 1.125" DB	
7,537.4	6,061.0	92.8		4 1/2	11.60	P-110	12,181.2	12,223.3	42.10	1 JNT. 4.5" 11.6# P110 LTC	
7,646.0	6,061.0	89.9		4 1/2			12,223.3	12,225.7	2.38	SINGLE VALVE FLOAT COLLAR	
7,839.2	6,061.0	89.3		4 1/2	11.60	P-110	12,225.7	12,265.9	40.13	Casing Joints	
8,011.5	6,061.0	88.8		4 1/2			12,265.9	12,268.0	2.15	DOUBLE VALVE FLOAT SHOE	
8,122.0	6,061.0	89.4									
8,303.1	6,061.0	88.5									
8,414.7	6,061.0	88.2									
8,595.5	6,061.0	90.4									
8,704.1	6,061.0	91.5									
8,886.2	6,061.0	91.9									
9,068.9	6,061.0	89.4									
9,253.6	6,061.0	90.1									
9,350.4	6,061.0	90.0									
9,542.3	6,061.0	90.2									
9,649.6	6,061.0	89.7									
9,841.9	6,061.0	88.6									
9,944.6	6,061.0	90.3									
10,058.1	6,061.0	90.3									
10,244.1	6,061.0	89.5									
10,355.3	6,061.0	89.8									
10,450.1	6,061.0	90.1									
10,627.3	6,061.0	92.3									
10,816.9	6,061.0	92.8									
10,912.7	6,061.0	91.6									
11,021.7	6,061.0	88.1									
11,199.8	6,061.0	87.2									
11,308.4	6,061.0	88.5									
11,501.6	6,061.0	87.9									
11,599.1	6,061.0	88.1									
11,784.1	6,061.0	90.4									
11,887.1	6,061.0	90.2									
12,070.2	6,061.0	89.7									
12,181.1	6,061.0	89.7									
12,268.0	6,061.0	89.9									

#### Cement Stages

Des	Pump Start Date	Drill Out Date	Top (ftKB)	Btm (ftKB)	Top Meas Meth
Surface Casing Cement	9/9/2012		16.5	1,531.9	Returns to Surface
Intermediate Casing Cement	9/13/2012		16.5	6,085.0	Volume Calculations

#### Perforations

Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone

#### Stim/Treat Stages

Stage Type	Start Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pump (bbl)
Frac	10/20/2012	6,188.0	6,200.0	21986# 40/70 sd, 97044# 20/40 sd, 23660# SBExcel, Slick Water	2769.00
Frac	10/20/2012	6,374.0	6,386.0	21997# 40/70 sd, 84672# 20/40 sd, 32392# SBExcel, Slick Water	2749.00
Frac	10/20/2012	6,572.0	6,584.0	19978# 40/70 sd, 86407# 20/40 sd, 25708# SBExcel, Slick Water	2716.00
Frac	10/20/2012	6,770.0	6,782.0	21999# 40/70 sd, 84893# 20/40 sd, 26136# SBExcel, Slick Water	2718.00
Frac	10/20/2012	6,957.0	6,969.0	23040# 40/70 sd, 84960# 20/40 sd, 24484# SBExcel, Slick Water	2859.00
Frac	10/20/2012	7,152.0	7,164.0	19991# 40/70 sd, 84847# 20/40 sd, 27916# SBExcel, Slick Water	2740.00
Frac	10/20/2012	7,342.0	7,354.0	19987# 40/70 sd, 84809# 20/40 sd, 25508# SBExcel, Slick Water	2730.00
Frac	10/20/2012	7,537.0	7,549.0	20004# 40/70 sd, 84194# 20/40 sd, 26376# SBExcel, Slick Water	2762.00
Frac	10/20/2012	7,729.0	7,741.0	19990# 40/70 sd, 85037# 20/40 sd, 24440# SBExcel, Slick Water	2733.00



## Lease Review All

### Well Name: TWOMILE 15-1033AH

API Number 051233487700		WPC ID 1C0076851		Well Permit Number		Field Name Wildcat		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,928.50		Ground Elevation (ft) 4,912.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,278.0	
Original Spud Date 9/9/2012		Completion Date 10/23/2012		Asset Group Central Rockies Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 422.0	N/S Ref FSL	E/W Dist (ft) 1,997.0	E/W Ref FEL
Lot	Quarter 1 SW	Quarter 2 SE	Quarter 3	Quarter 4	Section 15	Section Suffix	Section Type	Township 11 N	Township N/S Dir	Range 57 W	Meridian 6TH

Lateral/Horizontal - Original Hole, 3/20/2013 10:22:32 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)
					Frac					
84.0	84.0	0.7			Frac	10/20/2012	7,918.0	7,930.0	20229# 40/70 sd, 101813# 20/40 sd, 0# SBExcel, Slick Water	2807.00
148.6	148.6	0.9		Frac	10/20/2012	8,110.0	8,122.0	20004# 40/70 sd, 84945# 20/40 sd, 21140# SBExcel, Slick Water	2723.00	
1,531.8	1,531.3	1.1		Frac	10/20/2012	8,303.0	8,315.0	18498# 40/70 sd, 84608# 20/40 sd, 20788# SBExcel, Slick Water	2783.00	
4,773.0	4,772.0	1.0		Frac	10/20/2012	8,502.0	8,514.0	20009# 40/70 sd, 86025# 20/40 sd, 20188# SBExcel, Slick Water	2732.00	
4,873.0	4,872.0	0.8		Frac	10/20/2012	8,692.0	8,704.0	19990# 40/70 sd, 85399# 20/40 sd, 19929# SBExcel, Slick Water	2756.00	
4,908.8	4,907.8	0.7		Frac	10/20/2012	8,886.0	8,898.0	20013# 40/70 sd, 84935# 20/40 sd, 20050# SBExcel, Slick Water	2749.00	
6,061.0	5,661.4	89.9		Frac	10/20/2012	9,069.0	9,081.0	20015# 40/70 sd, 95381# 20/40 sd, 21840# SBExcel, Slick Water	3168.00	
6,188.0	5,660.0	91.5		Frac	10/20/2012	9,254.0	9,266.0	20037# 40/70 sd, 88763# 20/40 sd, 19915# SBExcel, Slick Water	2786.00	
6,292.3	5,654.8	93.6		Frac	10/20/2012	9,446.0	9,458.0	20094# 40/70 sd, 85109# 20/40 sd, 19576# SBExcel, Slick Water	2775.00	
6,386.2	5,648.1	94.5		Frac	10/20/2012	9,638.0	9,650.0	20241# 40/70 sd, 83787# 20/40 sd, 20056# SBExcel, Slick Water	2781.00	
6,584.0	5,636.1	95.2		Frac	10/19/2012	9,842.0	9,854.0	20088# 40/70 sd, 85252# 20/40 sd, 20053# SBExcel, Slick Water	2802.00	
6,770.0	5,624.7	93.0		Frac	10/19/2012	10,046.0	10,058.0	1516# 40/70 sd, 0# 20/40 sd, 0# SBExcel, Slick Water	1592.00	
6,876.6	5,618.4	93.5		Frac	10/19/2012	10,244.0	10,256.0	19995# 40/70 sd, 85089# 20/40 sd, 20023# SBExcel, Slick Water	2837.00	
6,969.2	5,613.4	94.0		Frac	10/19/2012	10,438.0	10,450.0	19998# 40/70 sd, 84412# 20/40 sd, 20009# SBExcel, Slick Water	2774.00	
7,152.2	5,603.3	92.7		Frac	10/19/2012	10,627.0	10,639.0	20003# 40/70 sd, 84919# 20/40 sd, 20004# SBExcel, Slick Water	2792.00	
7,260.5	5,594.8	93.8		Frac	10/19/2012	10,817.0	10,829.0	19988# 40/70 sd, 84690# 20/40 sd, 20014# SBExcel, Slick Water	2789.00	
7,354.0	5,588.8	93.6		Frac	10/19/2012	11,009.0	11,022.0	19985# 40/70 sd, 85264# 20/40 sd, 20013# SBExcel, Slick Water	2799.00	
7,537.4	5,578.3	92.8		Frac	10/19/2012	11,200.0	11,212.0	19995# 40/70 sd, 85314# 20/40 sd, 20014# SBExcel, Slick Water	2815.00	
7,646.0	5,575.5	89.9		Frac	10/19/2012	11,396.0	11,408.0	19997# 40/70 sd, 84240# 20/40 sd, 19975# SBExcel, Slick Water	2796.00	
7,839.2	5,578.8	89.3		Frac	10/19/2012	11,587.0	11,599.0	19996# 40/70 sd, 84943# 20/40 sd, 19992# SBExcel, Slick Water	3206.00	
8,011.5	5,580.2	88.8		Frac	10/19/2012	11,784.0	11,796.0	20001# 40/70 sd, 84750# 20/40 sd, 19995# SBExcel, Slick Water	2799.00	
8,122.0	5,582.2	89.4		Frac	10/19/2012	11,974.0	11,986.0	25029# 40/70 sd, 107134# 20/40 sd, 0# SBExcel, Slick Water	3039.00	
8,303.1	5,582.9	88.5		Frac	10/19/2012	12,169.0	12,181.0	19821# 40/70 sd, 8797# 20/40 sd, 0# SBExcel, Slick Water	6210.00	
8,414.7	5,586.1	88.2								
8,595.5	5,588.2	90.4								
8,704.1	5,587.8	91.5								
8,886.2	5,582.2	91.9								
9,068.9	5,580.1	89.4								
9,253.6	5,581.9	90.1								
9,350.4	5,581.9	90.0								
9,542.3	5,581.2	90.2								
9,649.6	5,581.1	89.7								
9,841.9	5,580.7	88.6								
9,944.6	5,581.6	90.3								
10,058.1	5,581.3	90.3								
10,244.1	5,579.9	89.5								
10,355.3	5,581.0	89.8								
10,450.1	5,581.0	90.1								
10,627.3	5,577.5	92.3								
10,816.9	5,567.6	92.8								
10,912.7	5,563.2	91.6								
11,021.7	5,562.4	88.1								
11,199.8	5,571.9	87.2								
11,308.4	5,576.2	88.5								
11,501.6	5,582.6	87.9								
11,599.1	5,586.2	88.1								
11,784.1	5,580.0	90.4								
11,887.1	5,588.1	90.2								
12,070.2	5,588.5	89.7								
12,181.1	5,588.9	89.7								
12,268.0	5,589.1	89.9								

Tubing - Production set at 4,792.0ftKB on 11/8/2012 09:00					
Set Depth (ftKB)	Comment	Run Date	Pull Date		
4,792.0		11/8/2012			
Item Des	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	2 7/8	2.441	4,756.50	7.5	4,764.0
Tubing	2 7/8	2.441	6.00	4,764.0	4,770.0
Jet pump cavity	2 7/8		3.00	4,770.0	4,773.0
Tubing	2 7/8	2.441	6.00	4,773.0	4,779.0
Packer Arrowset	6 1/2		7.00	4,779.0	4,786.0
Tubing	2 7/8	2.441	6.00	4,786.0	4,792.0



# Lease Review All

## Well Name: TWOMILE 15-1033AH

API Number 051233487700		WPC ID 1CO076851		Well Permit Number		Field Name Wildcat		County Weld		State CO	
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,928.50		Ground Elevation (ft) 4,912.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,278.0	
Original Spud Date 9/9/2012		Completion Date 10/23/2012		Asset Group Central Rockies Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 422.0	N/S Ref FSL	E/W Dist (ft) 1,997.0	E/W Ref FEL
Lot	Quarter 1 SW	Quarter 2 SE	Quarter 3	Quarter 4	Section 15	Section Suffix	Section Type	Township 11 N	Range 57 W	Meridian 6TH	

Lateral/Horizontal - Original Hole, 3/20/2013 10:22:34 AM

MD (ftKB)	TV D (ftKB)	In cl (°)	Vertical schematic (actual)	Logs	<des> on <dtmrun>				
					Rod Description	Run Date	Pull Date	Item Des	OD (in)
84.0	84.0	0.7							
148.6	148.6	0.9							
1,531.8	1,531.3	1.1							
4,773.0	4,772.0	1.0							
4,873.0	4,872.0	0.8							
4,908.8	4,907.8	0.7							
6,061.0	5,661.4	89.9							
6,188.0	5,660.0	91.5							
6,292.3	5,654.8	93.6							
6,386.2	5,648.1	94.5							
6,584.0	5,636.1	95.2							
6,770.0	5,624.7	93.0							
6,876.6	5,618.4	93.5							
6,969.2	5,613.4	94.0							
7,152.2	5,603.3	92.7							
7,260.5	5,594.8	93.8							
7,354.0	5,588.8	93.6							
7,537.4	5,578.3	92.8							
7,646.0	5,576.5	89.9							
7,839.2	5,576.8	89.3							
8,011.5	5,580.2	88.8							
8,122.0	5,582.2	89.4							
8,303.1	5,582.9	88.5							
8,414.7	5,586.1	88.2							
8,595.5	5,588.2	90.4							
8,704.1	5,587.6	91.5							
8,886.2	5,582.2	91.9							
9,068.9	5,580.1	89.4							
9,253.6	5,581.9	90.1							
9,350.4	5,581.9	90.0							
9,542.3	5,581.2	90.2							
9,649.6	5,581.1	89.7							
9,841.9	5,580.7	88.6							
9,944.6	5,581.6	90.3							
10,058.1	5,581.3	90.3							
10,244.1	5,579.9	89.5							
10,355.3	5,581.0	89.8							
10,450.1	5,581.0	90.1							
10,627.3	5,577.5	92.3							
10,816.9	5,567.6	92.8							
10,912.7	5,563.2	91.6							
11,021.7	5,562.4	88.1							
11,199.8	5,571.9	87.2							
11,308.4	5,576.2	88.5							
11,501.6	5,582.6	87.9							
11,599.1	5,586.2	88.1							
11,784.1	5,580.0	90.4							
11,887.1	5,588.1	90.2							
12,070.2	5,588.5	89.7							
12,181.1	5,588.9	89.7							
12,268.0	5,589.1	89.9							