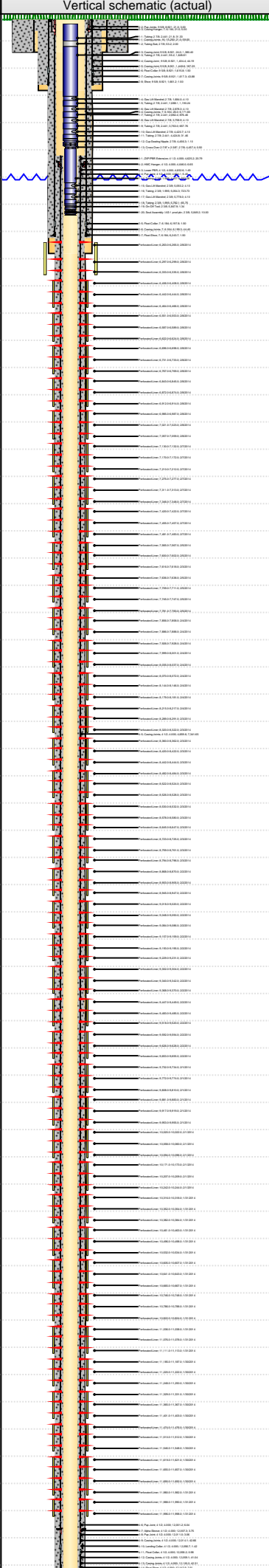
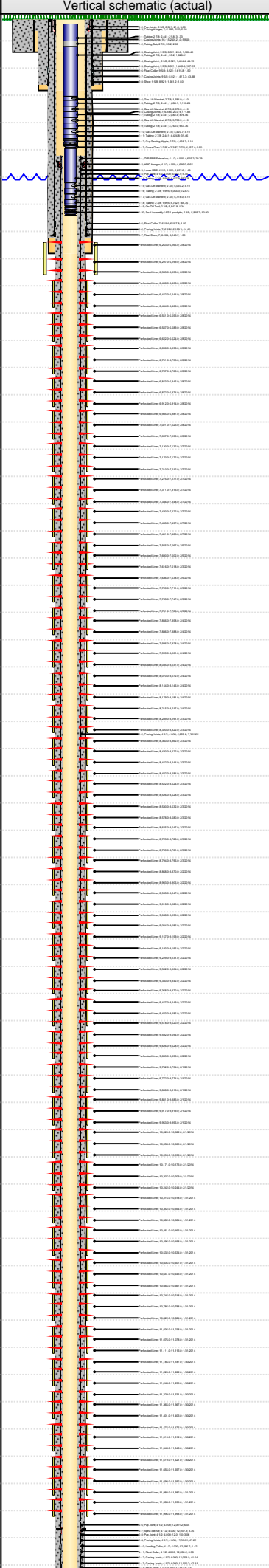
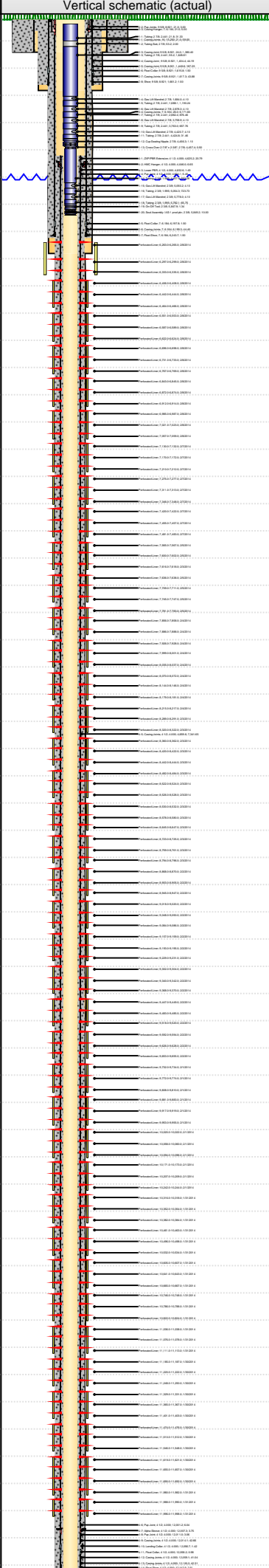
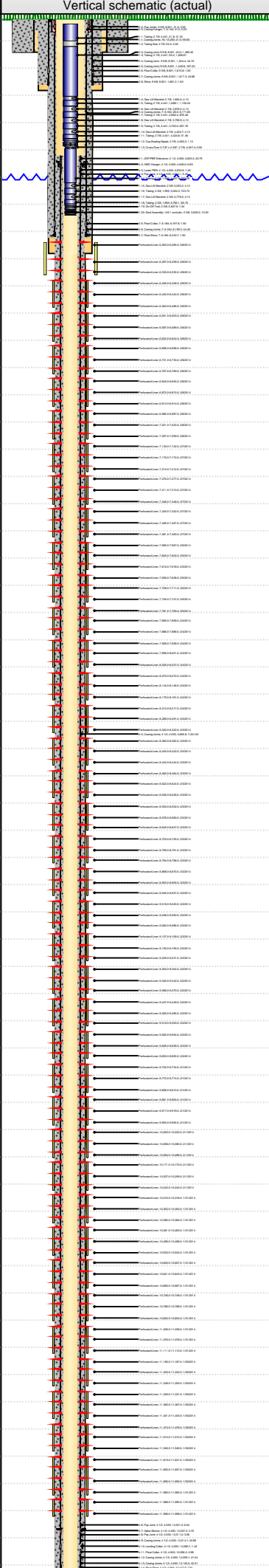
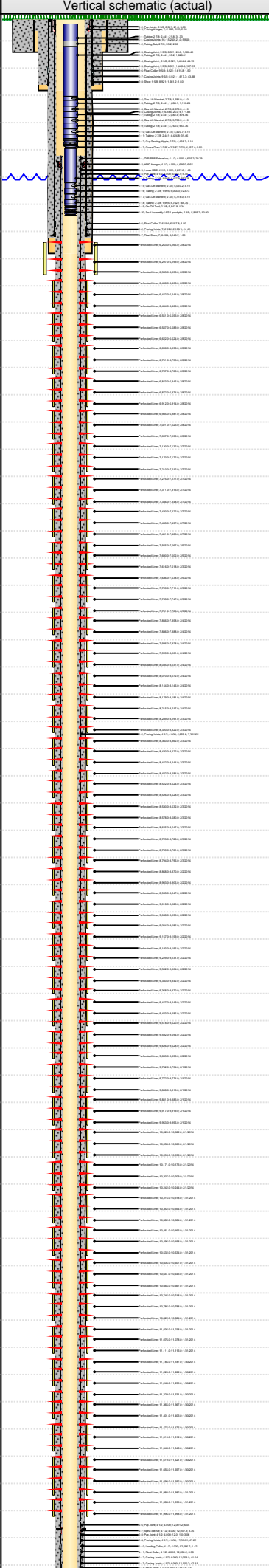
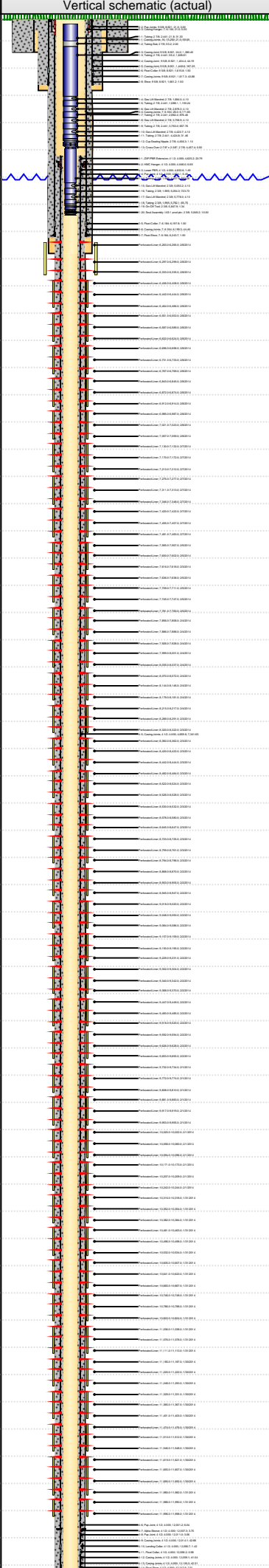
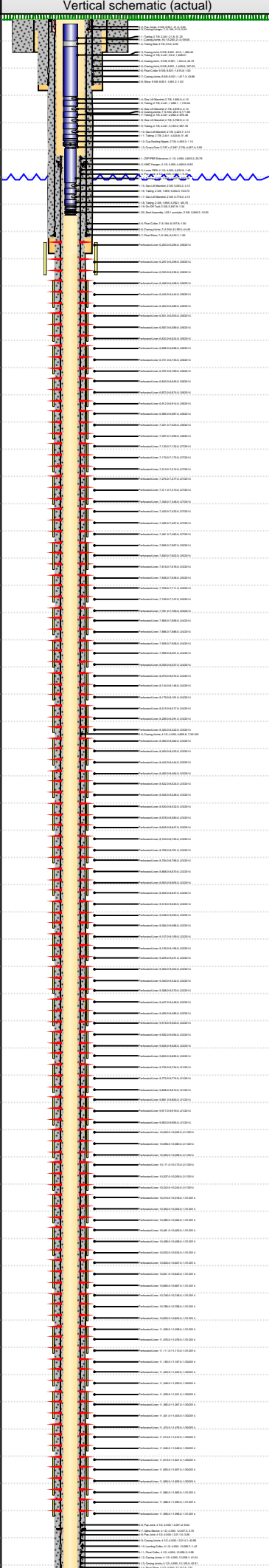
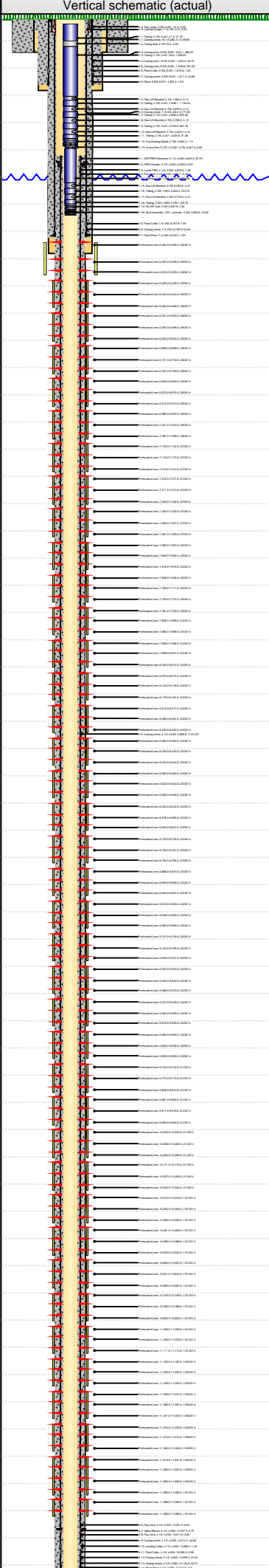
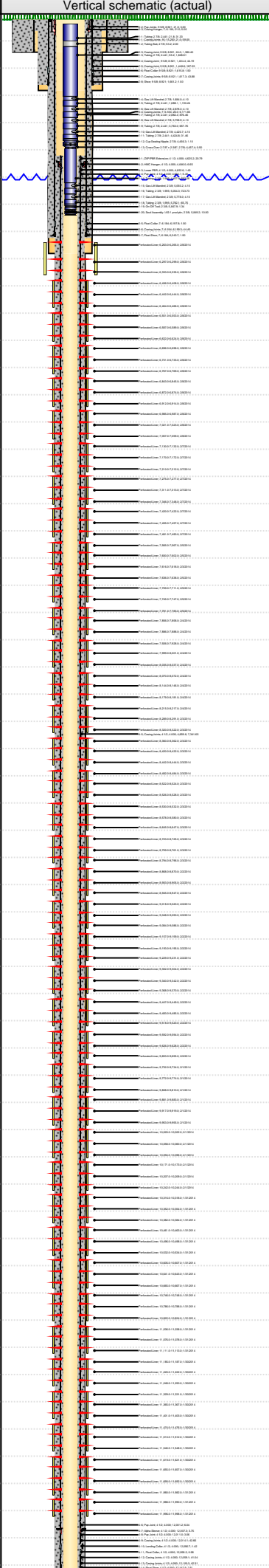
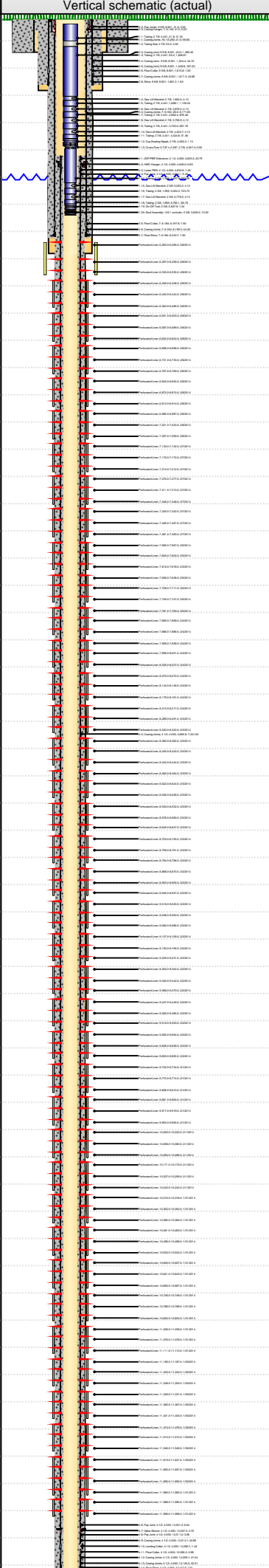
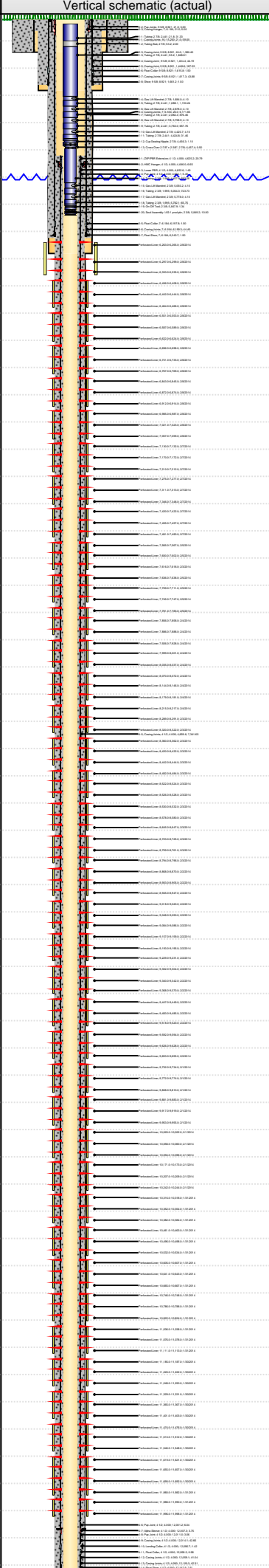
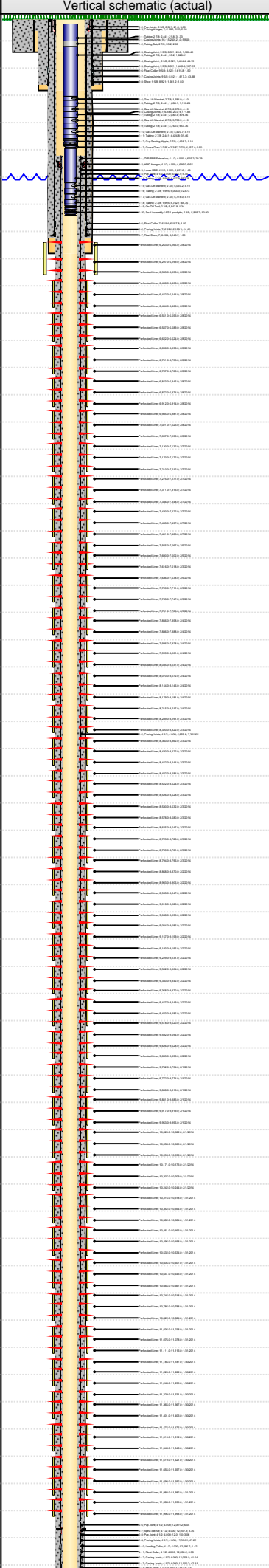
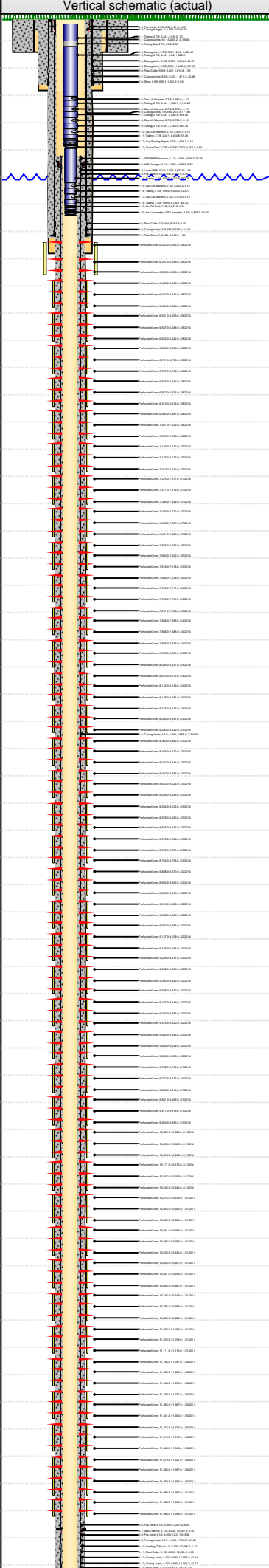
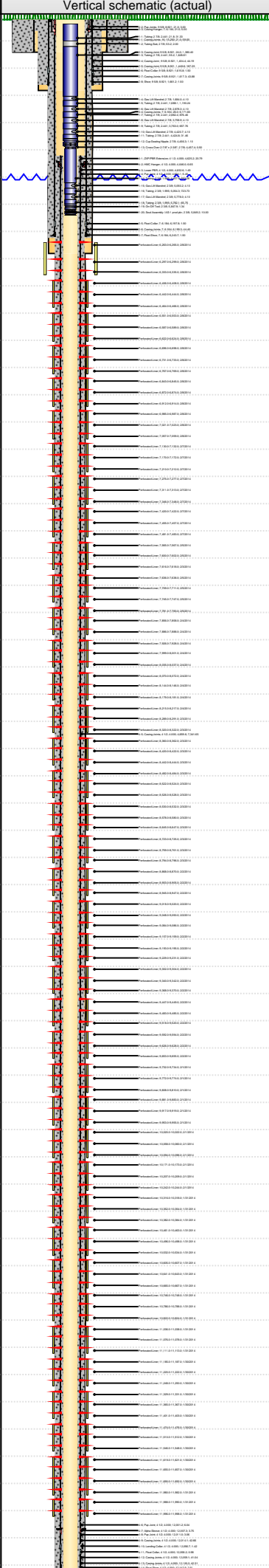
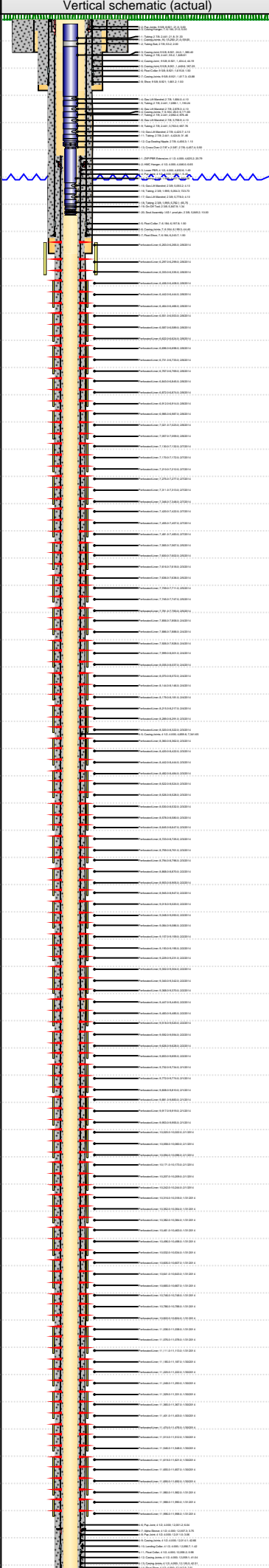
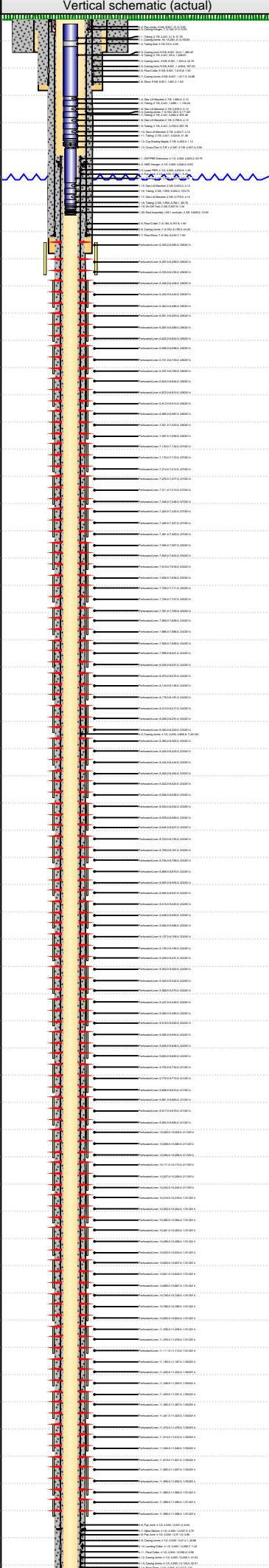
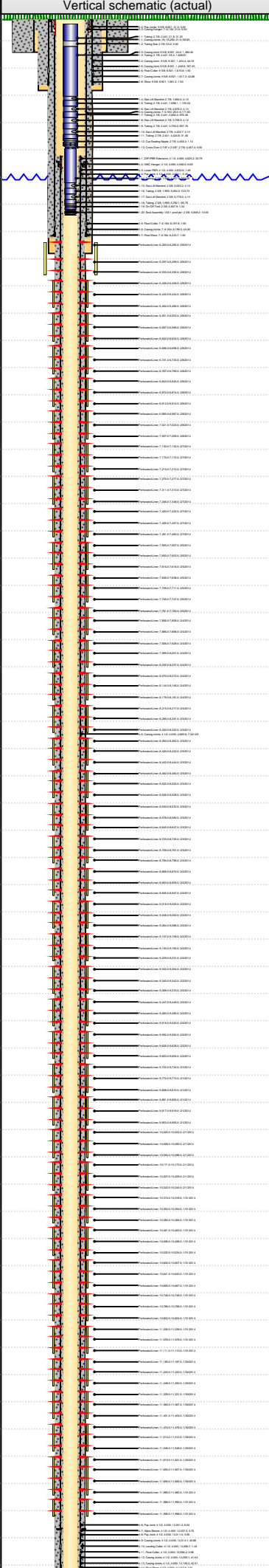
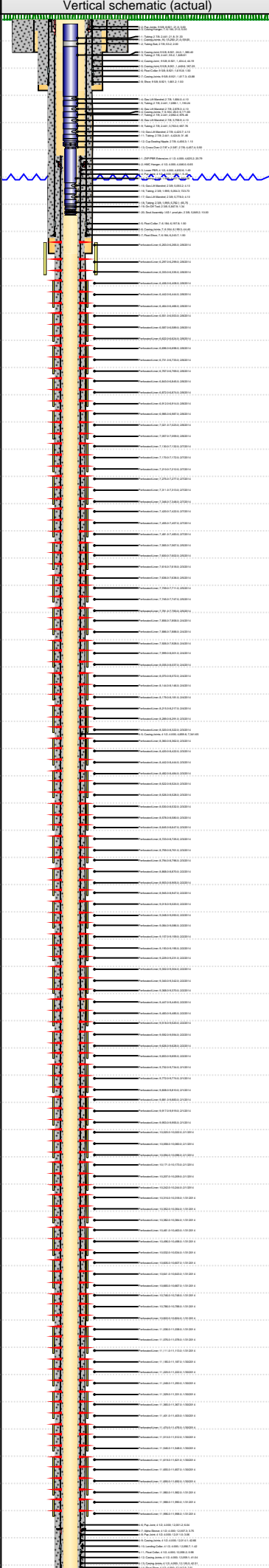
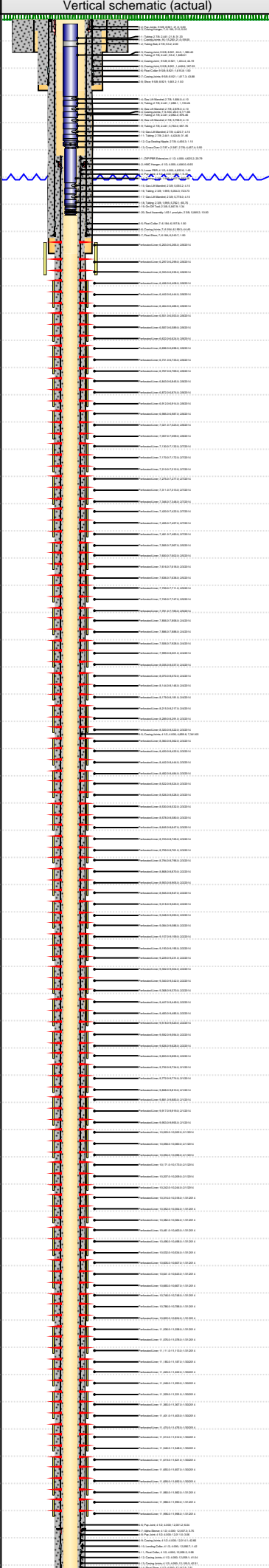
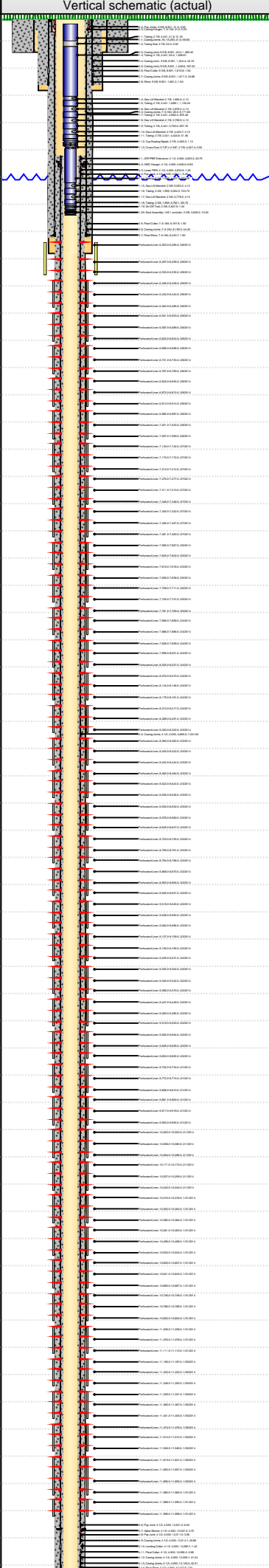
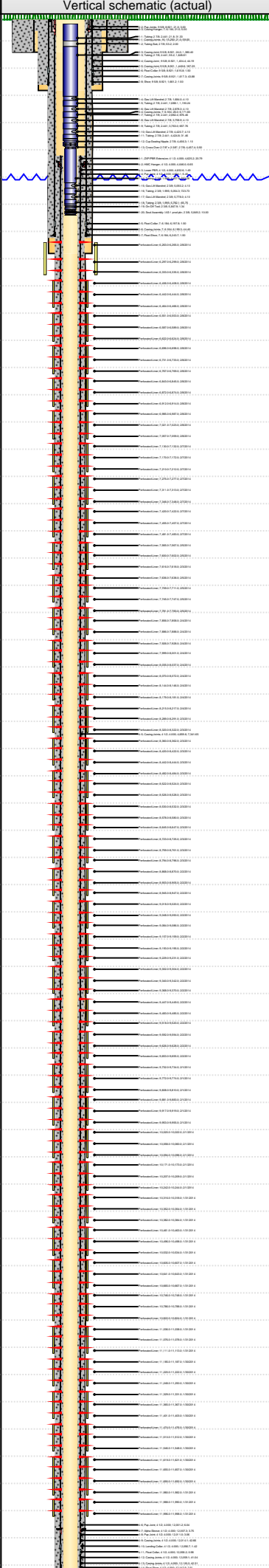
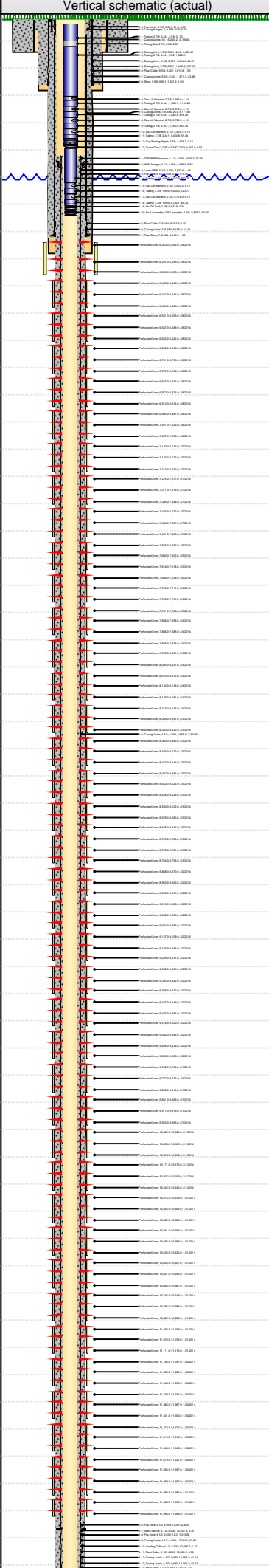
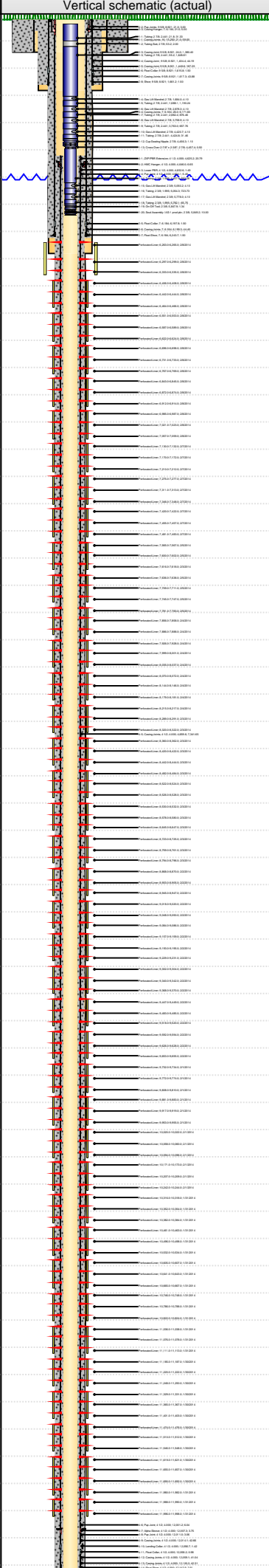
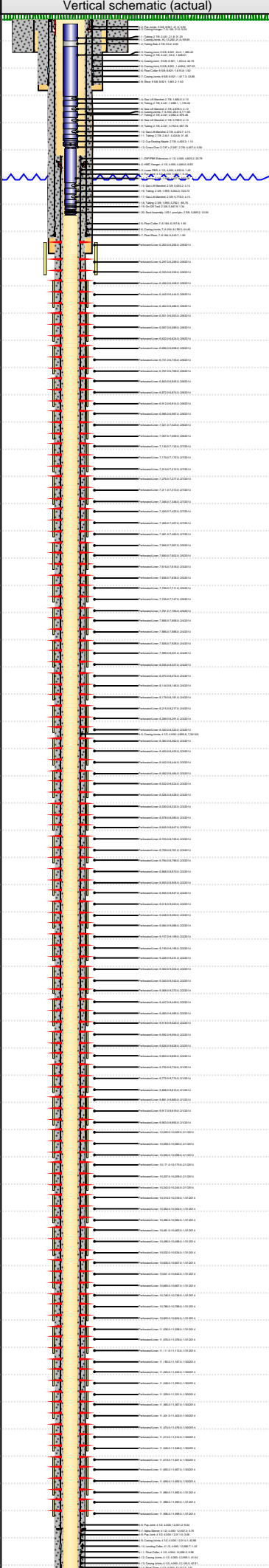
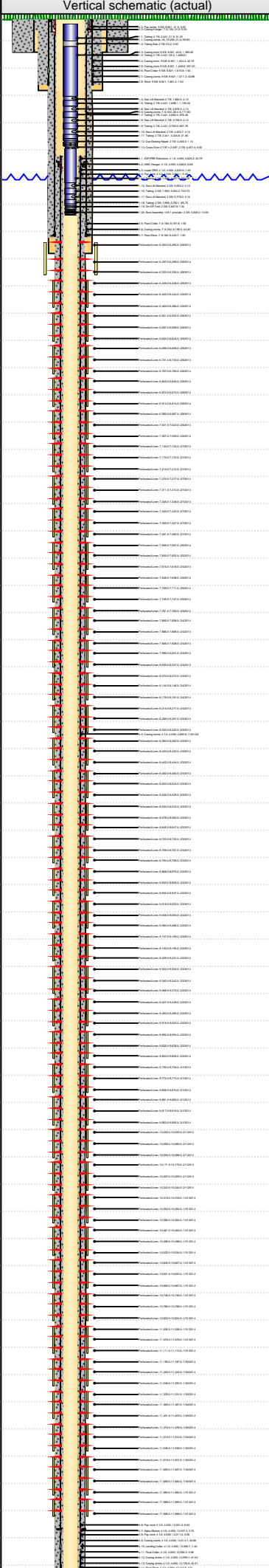
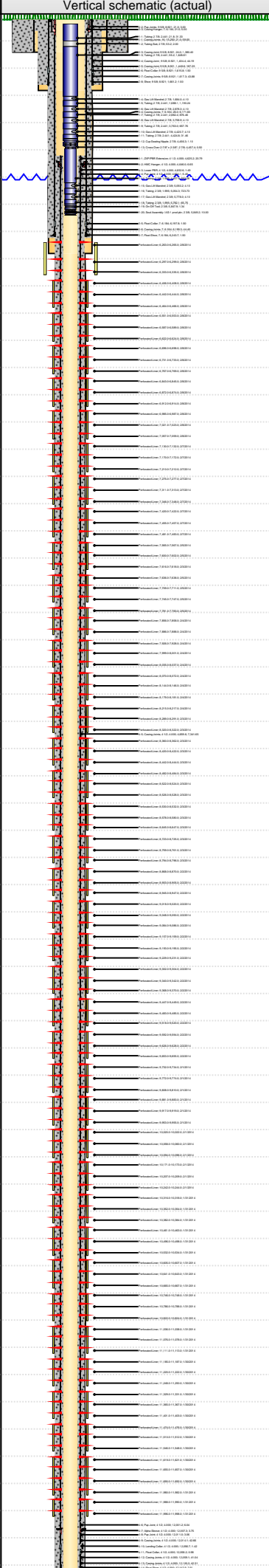
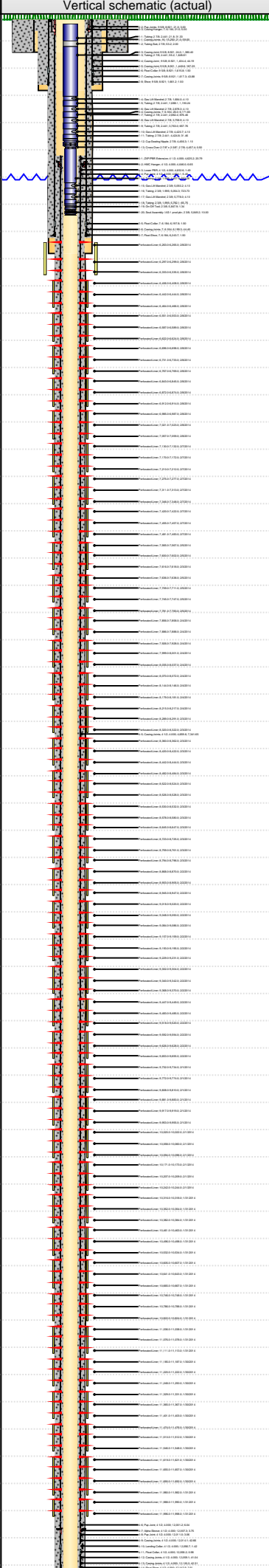
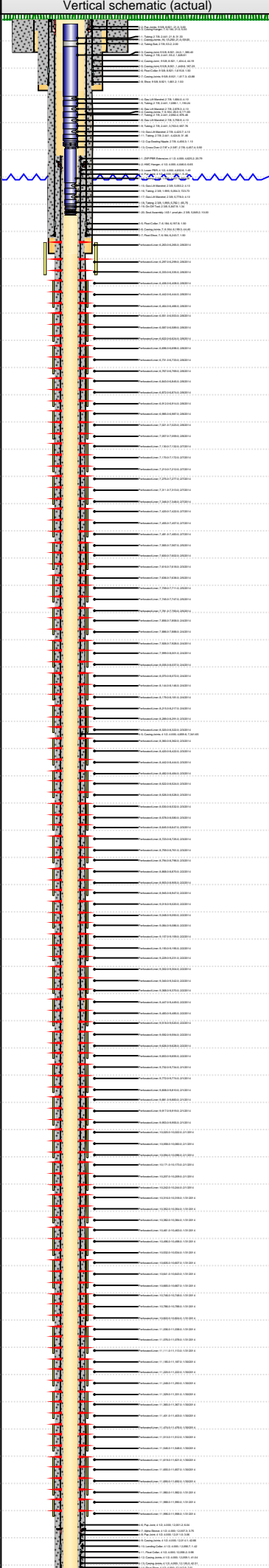
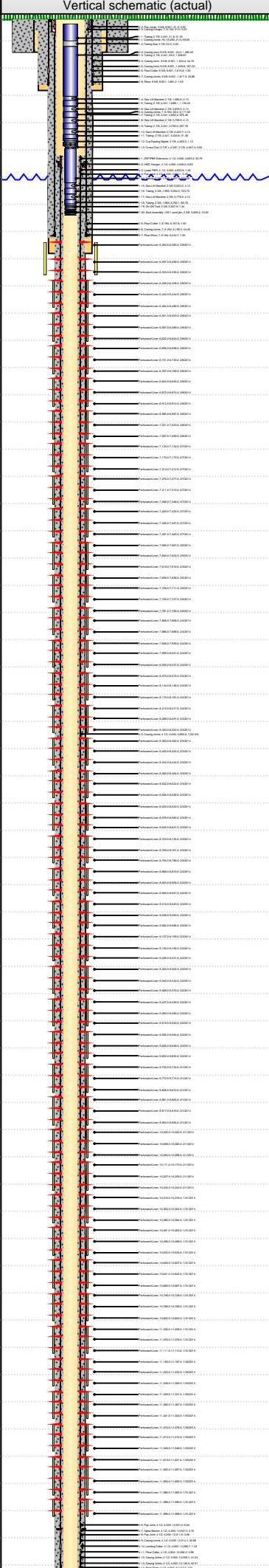


Lease Review All CR															Well Name: RAZOR 21B-2811A																								
API Number 051233776500					WPC ID 1CO076963					Well Permit Number					Field Name DJ Horizontal Niobrara					County Weld					State CO														
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,858.30					Ground Elevation (ft) 4,837.30					Casing Flange Elevation (ft)					Tubing Head Elevation (ft)					Total Depth (ftKB) 12,727.0														
Original Spud Date 12/13/2013					Completion Date 2/8/2014					Asset Group Redtail Asset Group					Responsible Engineer Andrew Fish					N/S Dist (ft) 330.0					N/S Ref FNL					E/W Dist (ft) 1,947.0					E/W Ref FEL				
Lot			Quarter 1 NW		Quarter 2 NE		Quarter 3		Quarter 4		Section 21		Section Suffix		Section Type		Township 10 N		Township N/S Dir		Range 58		Range E/W Dir W		Meridian														
Lateral/Horizontal - Original Hole, 7/2/2014 2:17:56 PM															Wellbore Sections																								
MD (ftKB)		TV D (ftKB)		n cl (° B)		Vertical schematic (actual)										Logs		Wellbore Name			Start Date		Size (in)		Act Top (ftKB)		Act Btm (ftKB)												
																		Original Hole			10/15/2013		24		21.0		80.0												
																		Original Hole			12/13/2013		13 1/2		80.0		1,675.0												
																		Original Hole			12/15/2013		8 3/4		1,675.0		6,290.0												
																		Original Hole			12/31/2013		6		6,290.0		12,727.0												
Conductor Pipe, 80.0ftKB																																							
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des																											
16		65.00		H-40		21.0		80.0		59.00		Casing Joints																											
Surface Csg, 1,662.7ftKB																																							
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des																											
9 5/8		36.00		J-55		21.0		21.0		0.00		Landing Joint																											
9 5/8		36.00		J-55		21.0		24.0		3.00		Pup Joints																											
9 5/8		36.00		J-55		24.0		1,404.4		1,380.40		Casing Joint																											
9 5/8		36.00		J-55		1,404.4		1,448.6		44.19		Casing Joint																											
9 5/8		36.00		J-55		1,448.6		1,615.8		167.25		Casing Joint																											
9 5/8		36.00		J-55		1,615.8		1,617.3		1.50		Float Collar																											
9 5/8		36.00		J-55		1,617.3		1,661.2		43.88		Casing Joints																											
9 5/8		36.00		J-55		1,661.2		1,662.7		1.50		Shoe																											
Intermediate Csg, 6,245.2ftKB																																							
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des																											
7		29.00		L-80		21.0		21.0		0.00		Landing Joint																											
7		29.00		L-80		21.0		21.0		0.00		Casing Joints																											
7		29.00		L-80		21.0		26.0		5.00		Casing Hanger																											
7		29.00		L-80		26.0		6,197.8		6,171.83		Casing Joints																											
7		29.00		L-80		6,197.8		6,199.3		1.50		Float Collar																											
7		29.00		L-80		6,199.3		6,243.7		44.40		Casing Joints																											
7		29.00		L-80		6,243.7		6,245.2		1.50		Float Shoe																											
Liner, 12,145.0ftKB																																							
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des																											
4 1/2		11.60		L-80		4,625.2		4,646.0		20.79		ZXP/PBR Extension																											
4 1/2		11.60		L-80		4,646.0		4,652.6		6.65		HMC Hanger																											
4 1/2		11.60		L-80		4,652.6		4,654.1		1.49		Lower PBR																											
4 1/2		11.60		L-80		4,654.1		4,659.6		5.45		Pup Joint																											
4 1/2		11.60		L-80		4,659.6		12,001.2		7,341.65		Casing Joints																											
4 1/2		11.60		L-80		12,001.2		12,007.3		6.04		Pup Joint																											
4 1/2		11.60		L-80		12,007.3		12,011.0		3.75		Alpha Sleeve																											
4 1/2		11.60		L-80		12,011.0		12,014.1		3.06		Pup Joint																											
4 1/2		11.60		L-80		12,014.1		12,056.7		42.66		Casing Joints																											
4 1/2		11.60		L-80		12,056.7		12,058.2		1.42		Landing Collar																											
4 1/2		11.60		L-80		12,058.2		12,059.1		0.98		Float Collar																											
4 1/2		11.60		L-80		12,059.1		12,100.2		41.04		Casing Joints																											
4 1/2		11.60		L-80		12,100.2		12,142.5		42.31		Casing Joints																											
4 1/2		11.60		L-80		12,142.5		12,145.0		2.51		Float Shoe																											
Cement Stages																																							
Des			Pump Start Date			Drill Out Date			Top (ftKB)		Btm (ftKB)		Top Meas Meth																										
Conductor Cement			10/15/2013						21.0		80.0		Returns to Surface																										
Surface Casing Cement			12/14/2013						21.0		1,662.7		Returns to Surface																										
Intermediate Casing Cement			12/17/2013						21.0		6,245.0		Returns to Surface																										
Liner Cement			1/5/2014						4,625.2		12,145.0		Returns to Surface																										
Perforations																																							
Type of Hole			Date			Top (ftKB)			Btm (ftKB)			Zone																											
Perforated Liner			2/8/2014			6,263.0			6,265.0			Niobrara, Original Hole																											
Perforated Liner			2/8/2014			6,297.0			6,299.0			Niobrara, Original Hole																											
Perforated Liner			2/8/2014			6,333.0			6,335.0			Niobrara, Original Hole																											
Perforated Liner			2/8/2014			6,406.0			6,408.0			Niobrara, Original Hole																											
Perforated Liner			2/8/2014			6,442.0			6,444.0			Niobrara, Original Hole																											
Perforated Liner			2/8/2014			6,464.0			6,466.0			Niobrara, Original Hole																											
Perforated Liner			2/8/2014			6,551.0			6,553.0			Niobrara, Original Hole																											
Perforated Liner			2/8/2014			6,587.0			6,589.0			Niobrara, Original Hole																											
Perforated Liner			2/8/2014			6,622.0			6,624.0			Niobrara, Original Hole																											
Perforated Liner			2/8/2014			6,696.0			6,698.0			Niobrara, Original Hole																											

Lease Review All CR															
Well Name: RAZOR 21B-2811A															
API Number 051233776500			WPC ID 1C0076963			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO	
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 4,858.30			Ground Elevation (ft) 4,837.30			Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,727.0		
Original Spud Date 12/13/2013		Completion Date 2/8/2014		Asset Group Redtail Asset Group			Responsible Engineer Andrew Fish			N/S Dist (ft) 330.0		N/S Ref FNL	E/W Dist (ft) 1,947.0		E/W Ref FEL
Lot		Quarter 1 NW	Quarter 2 NE	Quarter 3	Quarter 4	Section 21	Section Suffix	Section Type		Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian	
Lateral/Horizontal - Original Hole, 7/2/2014 2:17:58 PM						Perforations									
MD (ftKB)	TV D (ftKB)	n cl (°)	Vertical schematic (actual)	Logs											
					Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone						
					Perforated Liner 2/8/2014 6,731.0 6,733.0 Niobrara, Original Hole										
53.1	53.1	52			Perforated Liner 2/8/2014 6,767.0 6,769.0 Niobrara, Original Hole										
1,615.8	1,614.3	30			Perforated Liner 2/8/2014 6,843.0 6,845.0 Niobrara, Original Hole										
1,684.1	1,682.5	38			Perforated Liner 2/8/2014 6,872.0 6,874.0 Niobrara, Original Hole										
3,763.1	3,755.1	40			Perforated Liner 2/8/2014 6,912.0 6,914.0 Niobrara, Original Hole										
4,458.0	4,448.4	35			Perforated Liner 2/8/2014 6,985.0 6,987.0 Niobrara, Original Hole										
4,659.4	4,649.5	32			Perforated Liner 2/8/2014 7,021.0 7,023.0 Niobrara, Original Hole										
5,847.8	5,838.5	62.6			Perforated Liner 2/8/2014 7,057.0 7,059.0 Niobrara, Original Hole										
6,243.8	5,781.4	54.0			Perforated Liner 2/8/2014 7,130.0 7,132.0 Niobrara, Original Hole										
6,296.9	5,777.0	55.4			Perforated Liner 2/8/2014 7,170.0 7,172.0 Niobrara, Original Hole										
6,408.1	5,788.6	56.1			Perforated Liner 2/7/2014 7,210.0 7,212.0 Niobrara, Original Hole										
6,550.9	5,787.9	58.3			Perforated Liner 2/7/2014 7,275.0 7,277.0 Niobrara, Original Hole										
6,624.0	5,787.4	59.7			Perforated Liner 2/7/2014 7,311.0 7,313.0 Niobrara, Original Hole										
6,767.1	5,789.5	58.8			Perforated Liner 2/7/2014 7,346.0 7,348.0 Niobrara, Original Hole										
6,874.0	5,777.9	58.0			Perforated Liner 2/7/2014 7,420.0 7,422.0 Niobrara, Original Hole										
7,021.0	5,794.2	62.6			Perforated Liner 2/7/2014 7,455.0 7,457.0 Niobrara, Original Hole										
7,131.9	5,804.9	59.9			Perforated Liner 2/7/2014 7,481.0 7,483.0 Niobrara, Original Hole										
7,274.9	5,809.2	59.9			Perforated Liner 2/5/2014 7,565.0 7,567.0 Niobrara, Original Hole										
7,348.1	5,806.5	59.3			Perforated Liner 2/5/2014 7,600.0 7,602.0 Niobrara, Original Hole										
7,481.0	5,796.6	59.2			Perforated Liner 2/3/2014 7,616.0 7,618.0 Niobrara, Original Hole										
7,602.0	5,783.3	56.4			Perforated Liner 2/5/2014 7,636.0 7,638.0 Niobrara, Original Hole										
7,709.0	5,777.7	59.6			Perforated Liner 2/5/2014 7,709.0 7,711.0 Niobrara, Original Hole										
7,783.1	5,779.6	56.1			Perforated Liner 2/5/2014 7,745.0 7,747.0 Niobrara, Original Hole										
7,925.9	5,783.6	58.5			Perforated Liner 2/5/2014 7,781.0 7,783.0 Niobrara, Original Hole										
8,037.1	5,786.3	58.3			Perforated Liner 2/4/2014 7,856.0 7,858.0 Niobrara, Original Hole										
8,179.1	5,788.0	59.6			Perforated Liner 2/4/2014 7,886.0 7,888.0 Niobrara, Original Hole										
8,291.0	5,788.7	59.6			Perforated Liner 2/4/2014 7,926.0 7,928.0 Niobrara, Original Hole										
8,419.9	5,790.7	58.9			Perforated Liner 2/4/2014 7,999.0 8,001.0 Niobrara, Original Hole										
8,483.9	5,791.6	59.4			Perforated Liner 2/4/2014 8,035.0 8,037.0 Niobrara, Original Hole										
8,529.9	5,791.8	59.1			Perforated Liner 2/4/2014 8,070.0 8,072.0 Niobrara, Original Hole										
8,647.0	5,790.9	59.9			Perforated Liner 2/4/2014 8,144.0 8,146.0 Niobrara, Original Hole										
8,794.0	5,788.5	61.6			Perforated Liner 2/4/2014 8,179.0 8,181.0 Niobrara, Original Hole										
8,904.9	5,785.5	61.6			Perforated Liner 2/4/2014 8,215.0 8,217.0 Niobrara, Original Hole										
9,047.9	5,781.0	59.3			Perforated Liner 2/3/2014 8,289.0 8,291.0 Niobrara, Original Hole										
9,159.1	5,774.5	44.6			Perforated Liner 2/3/2014 8,320.0 8,322.0 Niobrara, Original Hole										
9,301.8	5,782.2	59.3			Perforated Liner 2/3/2014 8,360.0 8,362.0 Niobrara, Original Hole										
9,370.1	5,756.2	54.6			Perforated Liner 2/3/2014 8,420.0 8,422.0 Niobrara, Original Hole										
9,518.0	5,780.3	58.9			Perforated Liner 2/3/2014 8,442.0 8,444.0 Niobrara, Original Hole										
9,628.0	5,759.9	60.0			Perforated Liner 2/3/2014 8,482.0 8,484.0 Niobrara, Original Hole										
9,772.0	5,753.5	58.1													
9,882.9	5,758.7	57.9													
10,020.0	5,762.1	60.9													
10,096.1	5,763.9	57.6													
10,242.1	5,772.0	57.1													
10,354.0	5,776.0	48.9													
10,496.1	5,775.7	61.4													
10,607.0	5,773.5	59.6													
10,746.1	5,774.9	57.1													
10,824.1	5,781.0	60.0													
11,110.9	5,802.5	58.3													
11,222.1	5,802.1	61.7													
11,365.2	5,799.7	62.6													
11,476.0	5,793.7	60.4													
11,619.1	5,791.8	60.0													
11,691.9	5,792.2	60.0													
11,996.1	5,789.2	58.6													
12,014.1	5,799.7	58.7													
12,142.4	5,801.4	59.8													

Lease Review All CR															
Well Name: RAZOR 21B-2811A															
API Number 051233776500			WPC ID 1CO076963			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO	
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 4,858.30			Ground Elevation (ft) 4,837.30		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,727.0			
Original Spud Date 12/13/2013		Completion Date 2/8/2014		Asset Group Redtail Asset Group			Responsible Engineer Andrew Fish			N/S Dist (ft) 330.0		N/S Ref FNL	E/W Dist (ft) 1,947.0		E/W Ref FEL
Lot		Quarter 1 NW	Quarter 2 NE	Quarter 3	Quarter 4	Section 21	Section Suffix	Section Type		Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian	
Lateral/Horizontal - Original Hole, 7/2/2014 2:17:59 PM							Perforations								
MD (ftKB)	TV D (ftKB)	n cl (° B)	Vertical schematic (actual)				Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone			
								Perforated Liner	2/3/2014	8,522.0	8,524.0	Niobrara, Original Hole			
53.1	53.1	52					Perforated Liner	2/3/2014	8,526.0	8,528.0	Niobrara, Original Hole				
1,615.8	1,614.3	30					Perforated Liner	2/3/2014	8,530.0	8,532.0	Niobrara, Original Hole				
1,684.1	1,682.5	18					Perforated Liner	2/3/2014	8,578.0	8,580.0	Niobrara, Original Hole				
3,763.1	3,755.1	40					Perforated Liner	2/3/2014	8,645.0	8,647.0	Niobrara, Original Hole				
4,458.0	4,448.4	35					Perforated Liner	2/3/2014	8,723.0	8,725.0	Niobrara, Original Hole				
4,659.4	4,649.5	10					Perforated Liner	2/3/2014	8,759.0	8,761.0	Niobrara, Original Hole				
5,847.8	5,838.5	60.6					Perforated Liner	2/3/2014	8,794.0	8,796.0	Niobrara, Original Hole				
6,243.8	5,781.4	94.0					Perforated Liner	2/2/2014	8,868.0	8,870.0	Niobrara, Original Hole				
6,296.9	5,777.0	95.4					Perforated Liner	2/2/2014	8,903.0	8,905.0	Niobrara, Original Hole				
6,408.1	5,788.6	96.1					Perforated Liner	2/2/2014	8,945.0	8,947.0	Niobrara, Original Hole				
6,550.9	5,787.9	96.3					Perforated Liner	2/2/2014	9,018.0	9,020.0	Niobrara, Original Hole				
6,624.0	5,787.4	96.7					Perforated Liner	2/2/2014	9,048.0	9,050.0	Niobrara, Original Hole				
6,767.1	5,789.5	96.8					Perforated Liner	2/2/2014	9,084.0	9,086.0	Niobrara, Original Hole				
6,874.0	5,777.9	94.0					Perforated Liner	2/2/2014	9,157.0	9,159.0	Niobrara, Original Hole				
7,021.0	5,794.2	93.4					Perforated Liner	2/2/2014	9,193.0	9,195.0	Niobrara, Original Hole				
7,131.9	5,804.9	95.9					Perforated Liner	2/2/2014	9,229.0	9,231.0	Niobrara, Original Hole				
7,274.9	5,809.2	95.9					Perforated Liner	2/2/2014	9,302.0	9,304.0	Niobrara, Original Hole				
7,348.1	5,806.5	93.3					Perforated Liner	2/2/2014	9,340.0	9,342.0	Niobrara, Original Hole				
7,481.0	5,796.6	95.2					Perforated Liner	2/2/2014	9,368.0	9,370.0	Niobrara, Original Hole				
7,602.0	5,783.3	96.4					Perforated Liner	2/2/2014	9,447.0	9,449.0	Niobrara, Original Hole				
7,709.0	5,777.7	96.6					Perforated Liner	2/2/2014	9,483.0	9,485.0	Niobrara, Original Hole				
7,783.1	5,779.6	96.1					Perforated Liner	2/2/2014	9,518.0	9,520.0	Niobrara, Original Hole				
7,925.9	5,783.6	95.5					Perforated Liner	2/2/2014	9,592.0	9,594.0	Niobrara, Original Hole				
8,037.1	5,786.3	96.3					Perforated Liner	2/2/2014	9,626.0	9,628.0	Niobrara, Original Hole				
8,179.1	5,788.0	96.6					Perforated Liner	2/2/2014	9,653.0	9,655.0	Niobrara, Original Hole				
8,291.0	5,788.7	96.6					Perforated Liner	2/1/2014	9,732.0	9,734.0	Niobrara, Original Hole				
8,419.9	5,790.7	96.9					Perforated Liner	2/1/2014	9,772.0	9,774.0	Niobrara, Original Hole				
8,483.9	5,791.6	96.4					Perforated Liner	2/1/2014	9,808.0	9,810.0	Niobrara, Original Hole				
8,529.9	5,791.8	96.1					Perforated Liner	2/1/2014	9,881.0	9,883.0	Niobrara, Original Hole				
8,647.0	5,790.9	96.9					Perforated Liner	2/1/2014	9,917.0	9,919.0	Niobrara, Original Hole				
8,794.0	5,788.5	91.4					Perforated Liner	2/1/2014	9,953.0	9,955.0	Niobrara, Original Hole				
8,904.9	5,785.5	91.6					Perforated Liner	2/1/2014	10,020.0	10,022.0	Niobrara, Original Hole				
9,047.9	5,781.0	92.3					Perforated Liner	2/1/2014	10,058.0	10,060.0	Niobrara, Original Hole				
9,159.1	5,774.5	94.4					Perforated Liner	2/1/2014	10,094.0	10,096.0	Niobrara, Original Hole				
9,301.8	5,782.2	95.3					Perforated Liner	2/1/2014	10,171.0	10,173.0	Niobrara, Original Hole				
9,370.1	5,756.2	94.6					Perforated Liner	2/1/2014	10,207.0	10,209.0	Niobrara, Original Hole				
9,518.0	5,780.3	96.9					Perforated Liner	2/1/2014	10,242.0	10,244.0	Niobrara, Original Hole				
9,628.0	5,793.9	99.0					Perforated Liner	1/31/2014	10,316.0	10,318.0	Niobrara, Original Hole				
9,772.0	5,793.5	98.1					Perforated Liner								
9,882.9	5,798.7	97.9					Perforated Liner								
10,020.0	5,792.1	98.9					Perforated Liner								
10,096.1	5,783.9	97.6					Perforated Liner								
10,242.1	5,772.0	97.1					Perforated Liner								
10,354.0	5,776.0	98.9					Perforated Liner								
10,496.1	5,775.7	91.4					Perforated Liner								
10,607.0	5,773.5	96.6					Perforated Liner								
10,746.1	5,774.9	97.1					Perforated Liner								
10,824.1	5,781.0	95.0					Perforated Liner								
11,110.9	5,802.5	98.3					Perforated Liner								
11,222.1	5,802.1	91.7					Perforated Liner								
11,365.2	5,799.7	92.6					Perforated Liner								
11,476.0	5,793.7	90.4					Perforated Liner								
11,619.1	5,791.8	90.0					Perforated Liner								
11,691.9	5,792.2	99.0					Perforated Liner								
11,996.1	5,789.2	98.6					Perforated Liner								
12,014.1	5,799.7	98.7					Perforated Liner								
12,142.4	5,801.4	98.8					Perforated Liner								



Lease Review All CR													
Well Name: RAZOR 21B-2811A													
API Number 051233776500		WPC ID 1CO076963		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO			
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,858.30		Ground Elevation (ft) 4,837.30		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,727.0			
Original Spud Date 12/13/2013		Completion Date 2/8/2014		Asset Group Redtail Asset Group		Responsible Engineer Andrew Fish		N/S Dist (ft) 330.0		N/S Ref FNL		E/W Dist (ft) 1,947.0	
E/W Ref FEL													
Lot		Quarter 1 NW		Quarter 2 NE		Quarter 3		Quarter 4		Section 21		Section Suffix	
Section Type		Township 10		Township N/S Dir N		Range 58		Range E/W Dir W		Meridian			
Lateral/Horizontal - Original Hole, 7/2/2014 2:18:00 PM													
Perforations													
Type of Hole													
Date													
Top (ftKB)													
Btm (ftKB)													
Zone													
Perforated Liner													
1/31/2014													
10,352.0													
10,354.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
10,382.0													
10,384.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
10,461.0													
10,463.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
10,496.0													
10,498.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
10,532.0													
10,534.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
10,605.0													
10,607.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
10,641.0													
10,643.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
10,665.0													
10,667.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
10,746.0													
10,748.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
10,786.0													
10,788.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
10,822.0													
10,824.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
11,036.0													
11,038.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
11,076.0													
11,078.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
11,111.0													
11,113.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,185.0													
11,187.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,220.0													
11,222.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,248.0													
11,250.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,329.0													
11,331.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,365.0													
11,367.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,401.0													
11,403.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,474.0													
11,476.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,510.0													
11,512.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,546.0													
11,548.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,619.0													
11,621.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,655.0													
11,657.0													
Niobrara, Original Hole													
Perforated Liner													
1/30/2014													
11,690.0													
11,692.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
11,980.0													
11,982.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
11,988.0													
11,990.0													
Niobrara, Original Hole													
Perforated Liner													
1/31/2014													
11,996.0													
11,998.0													
Niobrara, Original Hole													
Stim/Treat Stages													
Stage Type													
Start Date													
Top (ftKB)													
Btm (ftKB)													
Stim/Treat Fluid													
Vol Clean Pump (bbl)													
Frac													
2/8/2014													
6,263.0													
6,335.0													
3038# 40.70, 149480# 20/40, 0 bbls 15% HCl, Slick Water													
2987.00													
Frac													
2/8/2014													
6,406.0													
6,466.0													
3262# 40.70, 87907# 20/40, 0 bbls 15% HCl, Slick Water													
2649.00													
Frac													
2/8/2014													
6,551.0													
6,624.0													
3049# 40.70, 152349# 20/40, 0 bbls 15% HCl, Slick Water													
3048.00													
Frac													
2/8/2014													
6,696.0													
6,769.0													
3023# 40.70, 149684# 20/40, 0 bbls 15% HCl, Slick Water													
3210.00													
Frac													
2/8/2014													
6,843.0													
6,914.0													
2861# 40.70, 149587# 20/40, 0 bbls 15% HCl, Slick Water													
3023.00													
Frac													
2/7/2014													
6,985.0													
7,059.0													
2894# 40.70, 150986# 20/40, 0 bbls 15% HCl, Slick Water													
3171.00													

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Lease Review All CR																		
Well Name: RAZOR 21B-2811A																		
API Number 051233776500				WPC ID 1CO076963				Well Permit Number				Field Name DJ Horizontal Niobrara			County Weld		State CO	
Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 4,858.30				Ground Elevation (ft) 4,837.30				Casing Flange Elevation (ft)			Tubing Head Elevation (ft)		Total Depth (ftKB) 12,727.0	
Original Spud Date 12/13/2013		Completion Date 2/8/2014		Asset Group Redtail Asset Group				Responsible Engineer Andrew Fish				N/S Dist (ft) 330.0		N/S Ref FNL		E/W Dist (ft) 1,947.0		E/W Ref FEL
Lot		Quarter 1 NW	Quarter 2 NE	Quarter 3	Quarter 4	Section 21	Section Suffix	Section Type		Township 10 N		Township N/S Dir		Range 58		Range E/W Dir W		Meridian
Lateral/Horizontal - Original Hole, 7/2/2014 2:18:03 PM								Stim/Treat Stages										
MD (ftKB)	TV D (ftKB)	n cl (°)	Vertical schematic (actual)				Logs	Stage Type	Start Date		Top (ftKB)		Btm (ftKB)		Stim/Treat Fluid		Vol Clean Pump (bbl)	
53.1	53.1	52					Frac	1/30/2014		11,036.0		11,113.0		2997# 40.70, 149709# 20/40, 24 bbls 15% HCl, Slick Water		3114.00		
1,615.8	1,614.3	30					Frac	1/30/2014		11,185.0		11,250.0		3071# 40.70, 150340# 20/40, 24 bbls 15% HCl, Slick Water		3179.00		
1,684.1	1,682.5	38					Frac	1/30/2014		11,329.0		11,403.0		3088# 40.70, 151716# 20/40, 23 bbls 15% HCl, Slick Water		3332.00		
3,763.1	3,755.1	40					Frac	1/30/2014		11,474.0		11,548.0		2954# 40.70, 148987# 20/40, 29 bbls 15% HCl, Slick Water		3392.00		
4,458.0	4,448.4	35					Frac	1/27/2014		11,619.0		11,692.0		3739# 40.70, 64552# 20/40, 28 bbls 15% HCl, Slick Water		2385.00		
4,659.4	4,649.5	32					Frac	1/27/2014		11,690.0		11,982.0		Skipped, hole problems		0.00		
5,847.8	5,838.5	60.8					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
6,243.8	5,781.4	84.0					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
6,296.9	5,777.0	85.4					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
6,408.1	5,786.6	80.1					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
6,550.9	5,787.9	90.3					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
6,624.0	5,787.4	90.7					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
6,767.1	5,789.5	86.8					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
6,874.0	5,777.3	84.0					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
7,021.0	5,794.2	83.4					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
7,131.9	5,804.9	80.9					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
7,274.9	5,809.2	80.9					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
7,348.1	5,806.5	83.3					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
7,481.0	5,786.6	80.2					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
7,602.0	5,783.3	86.4					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
7,709.0	5,777.7	88.4					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
7,783.1	5,779.6	86.1					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
7,925.9	5,783.6	83.5					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
8,037.1	5,786.3	88.8					Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00		
8,179.1	5,788.0	88.6	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
8,291.0	5,788.7	89.8	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
8,419.9	5,790.7	88.9	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
8,483.9	5,791.6	88.4	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
8,529.9	5,791.8	80.1	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
8,647.0	5,790.9	80.9	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
8,794.0	5,788.5	81.4	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
8,904.9	5,785.5	81.8	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
9,047.9	5,781.0	80.3	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
9,159.1	5,774.5	84.4	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
9,301.8	5,762.2	80.9	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
9,370.1	5,756.2	84.6	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
9,518.0	5,750.3	88.4	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
9,628.0	5,750.9	88.9	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
9,772.0	5,753.5	88.1	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
9,882.9	5,758.7	87.8	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
10,020.0	5,762.1	88.9	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
10,096.1	5,763.9	87.6	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
10,242.1	5,772.0	87.1	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
10,354.0	5,776.0	88.8	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
10,496.1	5,775.7	81.4	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
10,607.0	5,773.5	90.6	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
10,746.1	5,774.8	87.1	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
10,824.1	5,781.0	80.8	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
11,110.9	5,802.5	88.3	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
11,222.1	5,802.1	81.7	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
11,365.2	5,796.7	82.4	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
11,476.0	5,793.7	80.4	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
11,619.1	5,791.8	80.0	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
11,691.9	5,782.2	80.8	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
11,996.1	5,789.2	88.6	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
12,014.1	5,789.7	88.7	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
12,142.4	5,801.4	88.8	Frac	1/27/2014		11,988.0		11,998.0		Skipped, hole problems		0.00						
Tubing - Production set at 5,859.2ftKB on 3/14/2014 20:00																		
Set Depth (ftKB)		Comment										Run Date		Pull Date				
5,859.2												3/14/2014						
Item Des		OD (in)		ID (in)		Len (ft)		Top (ftKB)		Btm (ftKB)								
Tubing		2 7/8		2.441		31.33		21.8		53.2								
Tubing Sub		2 7/8				2.00		53.2		55.2								
Tubing		2 7/8		2.441		1,628.81		55.2		1,684.0								
Gas Lift Mandrel		2 7/8				4.10		1,684.0		1,688.1								
Tubing		2 7/8		2.441		1,190.24		1,688.1		2,878.3								
Gas Lift Mandrel		2 7/8				4.10		2,878.3		2,882.4								
Tubing		2 7/8		2.441		876.46		2,882.4		3,758.9								
Gas Lift Mandrel		2 7/8				4.10		3,758.9		3,763.0								
Tubing		2 7/8		2.441		657.76		3,763.0		4,420.7								
Gas Lift Mandrel		2 7/8				4.10		4,420.7		4,424.8								
Tubing		2 7/8		2.441		31.46		4,424.8		4,456.3								
Cup Seating Nipple		2 7/8				1.10		4,456.3		4,457.4								
Cross Over 2-7/8" x 2-3/8"		2 7/8				0.50		4,457.4		4,457.9								
Tubing		2 3/8		1.995		592.28		4,457.9		5,050.2								
Gas Lift Mandrel		2 3/8				4.10		5,050.2		5,054.3								
Tubing		2 3/8		1.995		723.73		5,054.3		5,778.0								
Gas Lift Mandrel		2 3/8				4.10		5,778.0		5,782.1								
Tubing		2 3/8		1.995		65.75		5,782.1		5,847.9								
On-Off Tool		2 3/8				1.34		5,847.9		5,849.2								
Seal Assembly / AS-1 prod pkr		2 3/8				10.00		5,849.2		5,859.2								
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)								
CFP		4		2/8/2014		3/6/2014		4,720.0		4,722.0								
CFP		4		2/8/2014		3/6/2014		6,370.0		6,372.0								
CFP		4		2/8/2014		3/6/2014		6,500.0		6,502.0								
CFP		4		2/8/2014		3/6/2014		6,652.0		6,654.0								
CFP		4		2/8/2014		3/6/2014		6,805.0		6,807.0								
CFP		4		2/8/2014		3/6/2014		6,950.0		6,952.0								
CFP		4		2/8/2014		3/6/2014		7,094.0		7,096.0								
CFP		4		2/7/2014		3/6/2014		7,239.0		7,241.0								
CFP		4		2/7/2014		3/6/2014		7,384.0		7,386.0								
CFP		4		2/7/2014		3/6/2014		7,511.0		7,513.0								
CFP		4		2/5/2014		3/6/2014		7,673.0		7,675.0								
CFP		4		2/5/2014		3/6/2014		7,824.0		7,826.0								
CFP		4		2/4/2014		3/6/2014		7,963.0		7,965.0								
CFP		4		2/4/2014		3/6/2014		8,116.0		8,118.0								
CFP		4		2/4/2014		3/6/2014		8,253.0		8,255.0								
CFP		4		2/3/2014		3/6/2014		8,390.0		8,392.0								
CFP		4		2/3/2014		3/6/2014		8,511.0		8,513.0								
CFP		4		2/3/2014		3/6/2014		8,542.0		8,544.0								
CFP		4		2/3/2014		3/9/2014		8,680.0		8,682.0								
CFP		4		2/3/2014		3/9/2014		8,828.0		8,830.0								



Lease Review All CR  
Well Name: RAZOR 21B-2811A

API Number 051233776500	WPC ID 1CO076963	Well Permit Number	Field Name DJ Horizontal Niobrara	County Weld	State CO
Well Configuration Type Lateral/Horizontal	Orig KB Elv (ft) 4,858.30	Ground Elevation (ft) 4,837.30	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB) 12,727.0
Original Spud Date 12/13/2013	Completion Date 2/8/2014	Asset Group Redtail Asset Group	Responsible Engineer Andrew Fish	N/S Dist (ft) 330.0 N/S Ref FNL	E/W Dist (ft) 1,947.0 E/W Ref FEL
Lot	Quarter 1 NW	Quarter 2 NE	Quarter 3	Quarter 4	Section 21
			Section Suffix	Section Type	Township 10 N
					Township N/S Dir N
					Range 58 W
					Range E/W Dir W
					Meridian

Lateral/Horizontal - Original Hole, 7/2/2014 2:18:04 PM				Other In Hole							
MD (ftKB)	TV D (ftKB B)	n cl (° )	Vertical schematic (actual)	Logs	Des	OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)	
					CFP		4	2/2/2014	3/9/2014	8,970.0	8,972.0
					CFP		4	2/2/2014	3/9/2014	9,121.0	9,123.0
					CFP		4	2/2/2014	3/9/2014	9,266.0	9,268.0
					CFP		4	2/2/2014	3/9/2014	9,395.0	9,397.0
					CFP		4	2/2/2014	3/9/2014	9,556.0	9,558.0
					CFP		4	2/2/2014	3/9/2014	9,710.0	9,712.0
					CFP		4	2/1/2014	3/9/2014	9,843.0	9,845.0
					CFP		4	2/1/2014	3/9/2014	9,997.0	9,999.0
					CFP		4	2/1/2014	3/9/2014	10,120.0	10,122.0
					CFP		4	2/1/2014	3/9/2014	10,280.0	10,282.0
					CFP		4	1/31/2014	3/13/2014	10,420.0	10,422.0
					CFP		4	1/31/2014	3/13/2014	10,570.0	10,572.0
					CFP		4	1/31/2014	3/13/2014	10,695.0	10,697.0
					CFP		4	1/31/2014	3/13/2014	10,854.0	10,856.0
					CFP		4	1/31/2014	3/13/2014	11,004.0	11,006.0
					CFP		4	1/31/2014	3/13/2014	11,149.0	11,151.0
					CFP		4	1/30/2014	3/13/2014	11,284.0	11,286.0
					CFP		4	1/30/2014	3/13/2014	11,447.0	11,449.0
Bottom Hole Cores											
Date		Core #		Top (ftKB)		Btm (ftKB)		Recov (ft)			
53.1	53.1	6.2			1. Casing 2.00 15.00 15.00 15.00						
1,615.8	1,614.3	3.0			2. Casing 2.00 15.00 15.00 15.00						
1,684.1	1,682.5	1.8			3. Casing 2.00 15.00 15.00 15.00						
3,763.1	3,755.1	4.0			4. Casing 2.00 15.00 15.00 15.00						
4,458.0	4,448.4	1.5			5. Casing 2.00 15.00 15.00 15.00						
4,659.4	4,649.5	1.3			6. Casing 2.00 15.00 15.00 15.00						
5,847.8	5,838.5	95.6			7. Casing 2.00 15.00 15.00 15.00						
6,243.8	5,781.4	94.0			8. Casing 2.00 15.00 15.00 15.00						
6,296.9	5,777.0	95.4			9. Casing 2.00 15.00 15.00 15.00						
6,408.1	5,786.6	96.1			10. Casing 2.00 15.00 15.00 15.00						
6,550.9	5,787.9	96.3			11. Casing 2.00 15.00 15.00 15.00						
6,624.0	5,787.4	96.7			12. Casing 2.00 15.00 15.00 15.00						
6,767.1	5,789.5	96.8			13. Casing 2.00 15.00 15.00 15.00						
6,874.0	5,777.3	94.0			14. Casing 2.00 15.00 15.00 15.00						
7,021.0	5,794.2	95.4			15. Casing 2.00 15.00 15.00 15.00						
7,131.9	5,804.9	95.9			16. Casing 2.00 15.00 15.00 15.00						
7,274.9	5,809.2	96.9			17. Casing 2.00 15.00 15.00 15.00						
7,348.1	5,806.5	95.3			18. Casing 2.00 15.00 15.00 15.00						
7,481.0	5,796.6	96.2			19. Casing 2.00 15.00 15.00 15.00						
7,602.0	5,783.3	96.4			20. Casing 2.00 15.00 15.00 15.00						
7,709.0	5,777.7	95.6			21. Casing 2.00 15.00 15.00 15.00						
7,783.1	5,779.6	96.1			22. Casing 2.00 15.00 15.00 15.00						
7,925.9	5,783.6	96.5			23. Casing 2.00 15.00 15.00 15.00						
8,037.1	5,786.3	96.8			24. Casing 2.00 15.00 15.00 15.00						
8,179.1	5,788.0	96.6			25. Casing 2.00 15.00 15.00 15.00						
8,291.0	5,788.7	96.6			26. Casing 2.00 15.00 15.00 15.00						
8,419.9	5,790.7	96.9			27. Casing 2.00 15.00 15.00 15.00						
8,483.9	5,791.6	96.4			28. Casing 2.00 15.00 15.00 15.00						
8,529.9	5,791.8	96.1			29. Casing 2.00 15.00 15.00 15.00						
8,647.0	5,790.9	96.9			30. Casing 2.00 15.00 15.00 15.00						
8,794.0	5,788.5	91.4			31. Casing 2.00 15.00 15.00 15.00						
8,904.9	5,786.5	91.6			32. Casing 2.00 15.00 15.00 15.00						
9,047.9	5,781.0	92.3			33. Casing 2.00 15.00 15.00 15.00						
9,159.1	5,774.6	94.4			34. Casing 2.00 15.00 15.00 15.00						
9,301.8	5,762.2	95.3			35. Casing 2.00 15.00 15.00 15.00						
9,370.1	5,756.2	94.6			36. Casing 2.00 15.00 15.00 15.00						
9,518.0	5,750.3	98.9			37. Casing 2.00 15.00 15.00 15.00						
9,628.0	5,750.9	96.0			38. Casing 2.00 15.00 15.00 15.00						
9,772.0	5,753.5	98.1			39. Casing 2.00 15.00 15.00 15.00						
9,882.9	5,758.7	97.9			40. Casing 2.00 15.00 15.00 15.00						
10,020.0	5,762.1	98.9			41. Casing 2.00 15.00 15.00 15.00						
10,096.1	5,763.9	97.6			42. Casing 2.00 15.00 15.00 15.00						
10,242.1	5,772.0	97.1			43. Casing 2.00 15.00 15.00 15.00						
10,354.0	5,776.0	98.8			44. Casing 2.00 15.00 15.00 15.00						
10,496.1	5,775.7	91.4			45. Casing 2.00 15.00 15.00 15.00						
10,607.0	5,773.5	96.6			46. Casing 2.00 15.00 15.00 15.00						
10,746.1	5,774.9	97.1			47. Casing 2.00 15.00 15.00 15.00						
10,824.1	5,781.0	95.0			48. Casing 2.00 15.00 15.00 15.00						
11,110.9	5,802.5	98.3			49. Casing 2.00 15.00 15.00 15.00						
11,222.1	5,802.1	91.7			50. Casing 2.00 15.00 15.00 15.00						
11,365.2	5,799.7	92.6			51. Casing 2.00 15.00 15.00 15.00						
11,476.0	5,793.7	90.4			52. Casing 2.00 15.00 15.00 15.00						
11,619.1	5,791.8	90.0			53. Casing 2.00 15.00 15.00 15.00						
11,691.9	5,792.2	90.0			54. Casing 2.00 15.00 15.00 15.00						
11,996.1	5,799.2	96.6			55. Casing 2.00 15.00 15.00 15.00						
12,014.1	5,799.7	98.7			56. Casing 2.00 15.00 15.00 15.00						
12,142.4	5,801.4	98.8			57. Casing 2.00 15.00 15.00 15.00						