



Lease Review All - CR
Well Name: BOIES B-19P-O1

API Number 0510311109	WPC ID 8CO064825	Well Permit Number 20074794	Field Name Sulphur Creek	County Rio Blanco	State CO
Well Configuration Type Deviated/Directional	Orig KB Elev (ft) 6,246.00	Ground Elevation (ft) 6,217.00	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB) 11,037.0
Original Spud Date 6/8/2008	Completion Date 8/14/2008	Asset Group Central Rockies	Responsible Engineer Jared Huckabee	N/S Dist (ft) 362.0	N/S Ref FSL
				E/W Dist (ft) 1,093.0	E/W Ref FEL
Lot	Quarter 1 SE	Quarter 2 SE	Quarter 3	Quarter 4	Section 19
			Section Suffix	Section Type	Township 2
				Township N/S Dir S	Range 97
				Range E/W Dir W	Meridian

Deviated/Directional - Original Hole, 3/4/2016 2:46:06 PM		Wellbore Sections									
MD (ftKB)	Vertical schematic (actual)		Section Des		Wellbore Name		Start Date	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
2,006.9			Surface		Original Hole		6/8/2008	12 1/4	29.0	5,050.0	
3,024.9			Production		Original Hole		6/17/2008	8 3/4	5,050.0	11,037.0	
4,783.1			Surface Csg, 5,050.0ftKB								
5,460.0			OD (in)	ID (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des	
6,944.9			9 5/8	8.83	36.00	J-55	29.0	2,007.0	1,977.98	Casing	
6,990.2			9 5/8	8.83	36.00	J-55	2,007.0	2,010.5	3.50	Nabors Oil Tool DV	
7,049.9			9 5/8	8.83	36.00	J-55	2,010.5	5,003.9	2,993.41	Casing	
7,147.0			9 5/8	8.83	36.00	J-55	5,003.9	5,006.4	2.50	Nabors Oil tool FC	
7,235.9			9 5/8	8.83	36.00	J-55	5,006.4	5,048.5	42.11	Casing	
7,289.9			9 5/8	8.83	36.00	J-55	5,048.5	5,050.0	1.50	Nabors Oil Tool GS	
7,361.9			Production Csg, 11,037.0ftKB								
7,453.1			OD (in)	ID (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des	
7,576.1			4 1/2	4.00	11.60	P-110	29.0	10,990.4	10,961.38	Casing Joints	
7,617.1			4 1/2	4.00	11.60	P-110	10,990.4	10,992.4	2.00	Float Collar	
7,649.9			4 1/2	4.00	11.60	P-110	10,992.4	11,035.4	43.02	Casing Joints	
7,712.9			4 1/2	4.00	11.60	P-110	11,035.4	11,037.0	1.60	Guide Shoe	
7,803.1			Cement Stages								
7,865.2			Des		Pump Start Date		Drill Out Date		Top (ftKB)	Btm (ftKB)	Top Meas Meth
7,980.0			Surface Casing Cement		6/15/2008				29.0	2,513.0	Volume Calculations
8,019.0			Surface Casing Cement		6/14/2008				2,007.0	5,050.0	Volume Calculations
8,084.0			Production Casing Cement		6/25/2008				5,460.0	11,037.0	
8,115.2			Cement Plug		6/26/2008				10,990.0	11,037.0	Wireline Tag
8,250.0			Perforations								
8,283.1			Type of Hole		Date		Top (ftKB)	Btm (ftKB)	Linked Zone		
8,337.9			Perforated		8/28/2011		6,935.0	6,936.0	Williams Fork, Original Hole		
8,378.9			Perforated		8/28/2011		6,945.0	6,946.0	Williams Fork, Original Hole		
8,487.9			Perforated		8/28/2011		6,976.0	6,977.0	Williams Fork, Original Hole		
8,550.9			Perforated		8/28/2011		6,989.0	6,990.0	Williams Fork, Original Hole		
8,733.9			Perforated		8/28/2011		7,008.0	7,009.0	Williams Fork, Original Hole		
8,773.0			Perforated		8/28/2011		7,042.0	7,043.0	Williams Fork, Original Hole		
8,923.9			Perforated		8/28/2011		7,050.0	7,051.0	Williams Fork, Original Hole		
9,026.6			Perforated		8/28/2011		7,102.0	7,103.0	Williams Fork, Original Hole		
9,090.2			Perforated		8/27/2011		7,146.0	7,147.0	Williams Fork, Original Hole		
9,189.0			Perforated		8/27/2011		7,158.0	7,159.0	Williams Fork, Original Hole		
9,275.9			Perforated		8/27/2011		7,190.0	7,191.0	Williams Fork, Original Hole		
9,327.1			Perforated		8/27/2011		7,236.0	7,237.0	Williams Fork, Original Hole		
9,424.9			Perforated		8/27/2011		7,260.0	7,261.0	Williams Fork, Original Hole		
9,606.0			Perforated		8/27/2011		7,268.0	7,269.0	Williams Fork, Original Hole		
9,672.9			Perforated		8/27/2011		7,322.0	7,323.0	Williams Fork, Original Hole		
9,783.1			Perforated		8/27/2011		7,332.0	7,333.0	Williams Fork, Original Hole		
9,900.9			Perforated		8/27/2011		7,362.0	7,363.0	Williams Fork, Original Hole		
10,122.0			Perforated		8/27/2011		7,402.0	7,403.0	Williams Fork, Original Hole		
10,152.9			Perforated		8/27/2011		7,452.0	7,453.0	Williams Fork, Original Hole		
10,217.8			Perforated		8/27/2011		7,472.0	7,473.0	Williams Fork, Original Hole		
10,293.0			Perforated		8/27/2011		7,496.0	7,497.0	Williams Fork, Original Hole		
10,398.0			Perforated		8/27/2011		7,576.0	7,577.0	Williams Fork, Original Hole		
10,480.0			Perforated		8/27/2011		7,586.0	7,587.0	Williams Fork, Original Hole		
10,557.1			Perforated		8/27/2011		7,616.0	7,617.0	Williams Fork, Original Hole		
10,651.9			Perforated		8/27/2011		7,632.0	7,633.0	Williams Fork, Original Hole		
10,691.9			Perforated		8/27/2011		7,642.0	7,643.0	Williams Fork, Original Hole		
10,761.2			Perforated		8/27/2011		7,650.0	7,651.0	Williams Fork, Original Hole		
10,803.1			Perforated		8/26/2011		7,702.0	7,703.0	Williams Fork, Original Hole		
10,867.1			Perforated		8/26/2011		7,712.0	7,713.0	Williams Fork, Original Hole		
10,948.9			Perforated		8/26/2011		7,732.0	7,733.0	Williams Fork, Original Hole		
11,035.4			Perforated		8/26/2011		7,778.0	7,779.0	Williams Fork, Original Hole		
			Perforated		8/26/2011		7,803.0	7,804.0	Williams Fork, Original Hole		
			Perforated		8/26/2011		7,834.0	7,835.0	Williams Fork, Original Hole		
			Perforated		8/26/2011		7,864.0	7,865.0	Williams Fork, Original Hole		
			Perforated		8/26/2011		7,932.0	7,933.0	Williams Fork, Original Hole		
			Perforated		8/26/2011		7,958.0	7,959.0	Williams Fork, Original Hole		
			Perforated		8/26/2011		7,980.0	7,981.0	Williams Fork, Original Hole		
			Perforated		8/26/2011		7,993.0	7,994.0	Williams Fork, Original Hole		
			Perforated		8/25/2011		8,018.0	8,019.0	Williams Fork, Original Hole		
			Perforated		8/25/2011		8,045.0	8,046.0	Williams Fork, Original Hole		
			Perforated		8/25/2011		8,062.0	8,063.0	Williams Fork, Original Hole		
			Perforated		8/25/2011		8,084.0	8,085.0	Williams Fork, Original Hole		
			Perforated		8/25/2011		8,092.0	8,093.0	Williams Fork, Original Hole		
			Perforated		8/25/2011		8,114.0	8,115.0	Williams Fork, Original Hole		
			Perforated		8/25/2011		8,167.0	8,168.0	Williams Fork, Original Hole		
			Perforated		8/25/2011		8,225.0	8,226.0	Williams Fork, Original Hole		
			Perforated		8/25/2011		8,250.0	8,251.0	Williams Fork, Original Hole		
			Perforated		8/25/2011		8,268.0	8,269.0	Williams Fork, Original Hole		
			Perforated		8/25/2011		8,282.0	8,283.0	Williams Fork, Original Hole		



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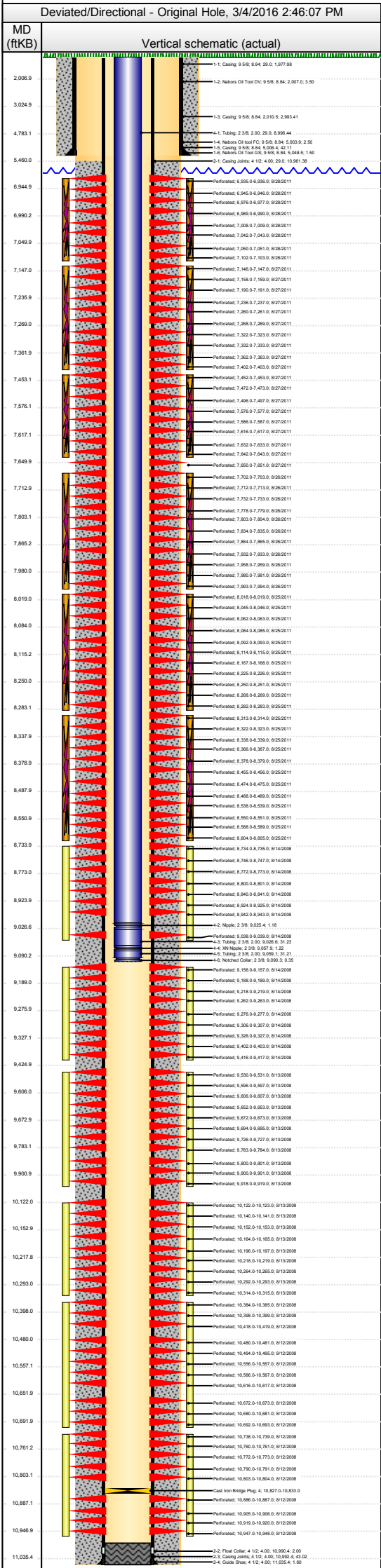
API Number 0510311109	WPC ID 8CO064825	Well Permit Number 20074794	Field Name Sulphur Creek	County Rio Blanco	State CO
Well Configuration Type Deviated/Directional	Orig KB Elev (ft) 6,246.00	Ground Elevation (ft) 6,217.00	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB) 11,037.0
Original Spud Date 6/8/2008	Completion Date 8/14/2008	Asset Group Central Rockies	Responsible Engineer Jared Huckabee	N/S Dist (ft) 362.0	N/S Ref FSL
				E/W Dist (ft) 1,093.0	E/W Ref FEL
Lot	Quarter 1 SE	Quarter 2 SE	Quarter 3	Quarter 4	Section 19
			Section Suffix	Section Type	Township 2
					Township N/S Dir S
					Range 97
					Range E/W Dir W
					Meridian

Deviated/Directional - Original Hole, 3/4/2016 2:46:06 PM		Perforations						
MD (ftKB)	Vertical schematic (actual)	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Linked Zone		
	<div>1-1: Casing 9.58, 8.84, 2.0, 0.1, 1,977.26</div> <div>1-2: Nabors Oil Tool Div. 9.58, 8.84, 2,007.0, 3.50</div> <div>1-3: Casing 9.58, 8.84, 2,010.5, 2,003.41</div> <div>1-4: Tubing 2.38, 2.00, 28.0, 0.886, 44</div> <div>1-4: Nabors Oil Tool FC 9.58, 8.84, 5,003.9, 2.50</div> <div>1-5: Casing 9.58, 8.84, 5,008.4, 42.11</div> <div>1-6: Nabors Oil Tool CSS 9.58, 8.84, 5,048.5, 1.50</div> <div>2-1: Casing Joints 4.12, 4.00, 28.0, 10,361.38</div>	Perforated	8/25/2011	8,313.0	8,314.0	Williams Fork, Original Hole		
2,006.9		Perforated	8/25/2011	8,322.0	8,323.0	Williams Fork, Original Hole		
3,024.9		Perforated	8/25/2011	8,338.0	8,339.0	Williams Fork, Original Hole		
4,783.1		Perforated	8/25/2011	8,366.0	8,367.0	Williams Fork, Original Hole		
5,480.0		Perforated	8/25/2011	8,378.0	8,379.0	Williams Fork, Original Hole		
6,944.9		Perforated	8/25/2011	8,455.0	8,456.0	Williams Fork, Original Hole		
6,990.2		Perforated	8/25/2011	8,474.0	8,475.0	Williams Fork, Original Hole		
7,049.9		Perforated	8/25/2011	8,488.0	8,489.0	Williams Fork, Original Hole		
7,147.0		Perforated	8/25/2011	8,538.0	8,539.0	Williams Fork, Original Hole		
7,235.9		Perforated	8/25/2011	8,550.0	8,551.0	Williams Fork, Original Hole		
7,289.9		Perforated	8/25/2011	8,588.0	8,589.0	Williams Fork, Original Hole		
7,361.9		Perforated	8/25/2011	8,604.0	8,605.0	Williams Fork, Original Hole		
7,453.1		Perforated	8/14/2008	8,734.0	8,735.0	Williams Fork, Original Hole		
7,576.1		Perforated	8/14/2008	8,746.0	8,747.0	Williams Fork, Original Hole		
7,617.1		Perforated	8/14/2008	8,772.0	8,773.0	Williams Fork, Original Hole		
7,649.9		Perforated	8/14/2008	8,800.0	8,801.0	Williams Fork, Original Hole		
7,712.9		Perforated	8/14/2008	8,840.0	8,841.0	Williams Fork, Original Hole		
7,803.1		Perforated	8/14/2008	8,924.0	8,925.0	Williams Fork, Original Hole		
7,865.2		Perforated	8/14/2008	8,942.0	8,943.0	Williams Fork, Original Hole		
7,980.0		Perforated	8/14/2008	9,038.0	9,039.0	Williams Fork, Original Hole		
8,019.0		Perforated	8/14/2008	9,156.0	9,157.0	Williams Fork, Original Hole		
8,084.0		Perforated	8/14/2008	9,188.0	9,189.0	Williams Fork, Original Hole		
8,115.2		Perforated	8/14/2008	9,218.0	9,219.0	Williams Fork, Original Hole		
8,250.0		Perforated	8/14/2008	9,262.0	9,263.0	Williams Fork, Original Hole		
8,283.1		Perforated	8/14/2008	9,276.0	9,277.0	Williams Fork, Original Hole		
8,337.9		Perforated	8/14/2008	9,306.0	9,307.0	Williams Fork, Original Hole		
8,378.9		Perforated	8/14/2008	9,326.0	9,327.0	Williams Fork, Original Hole		
8,487.9		Perforated	8/14/2008	9,402.0	9,403.0	Williams Fork, Original Hole		
8,550.9		Perforated	8/14/2008	9,416.0	9,417.0	Williams Fork, Original Hole		
8,733.9		Perforated	8/13/2008	9,530.0	9,531.0	Cameo, Original Hole		
8,773.0		Perforated	8/13/2008	9,596.0	9,597.0	Cameo, Original Hole		
8,923.9		Perforated	8/13/2008	9,606.0	9,607.0	Cameo, Original Hole		
9,026.6		Perforated	8/13/2008	9,652.0	9,653.0	Cameo, Original Hole		
9,090.2		Perforated	8/13/2008	9,672.0	9,673.0	Cameo, Original Hole		
9,189.0		Perforated	8/13/2008	9,694.0	9,695.0	Cameo, Original Hole		
9,275.9		Perforated	8/13/2008	9,726.0	9,727.0	Cameo, Original Hole		
9,327.1		Perforated	8/13/2008	9,783.0	9,784.0	Cameo, Original Hole		
9,424.9		Perforated	8/13/2008	9,800.0	9,801.0	Cameo, Original Hole		
9,606.0		Perforated	8/13/2008	9,900.0	9,901.0	Cameo, Original Hole		
9,672.9		Perforated	8/13/2008	9,918.0	9,919.0	Cameo, Original Hole		
9,783.1		Perforated	8/13/2008	10,122.0	10,123.0	Cozzette, Original Hole		
9,900.9		Perforated	8/13/2008	10,140.0	10,141.0	Cozzette, Original Hole		
10,122.0		Perforated	8/13/2008	10,152.0	10,153.0	Cozzette, Original Hole		
10,152.9		Perforated	8/13/2008	10,164.0	10,165.0	Cozzette, Original Hole		
10,217.8		Perforated	8/13/2008	10,196.0	10,197.0	Cozzette, Original Hole		
10,293.0		Perforated	8/13/2008	10,218.0	10,219.0	Cozzette, Original Hole		
10,398.0		Perforated	8/13/2008	10,264.0	10,265.0	Cozzette, Original Hole		
10,480.0		Perforated	8/13/2008	10,292.0	10,293.0	Cozzette, Original Hole		
10,557.1		Perforated	8/13/2008	10,314.0	10,315.0	Cozzette, Original Hole		
10,651.9		Perforated	8/12/2008	10,384.0	10,385.0	Cozzette, Original Hole		
10,691.9		Perforated	8/12/2008	10,398.0	10,399.0	Cozzette, Original Hole		
10,761.2		Perforated	8/12/2008	10,418.0	10,419.0	Cozzette, Original Hole		
10,803.1		Perforated	8/12/2008	10,480.0	10,481.0	Corcoran, Original Hole		
10,867.1		Perforated	8/12/2008	10,494.0	10,495.0	Corcoran, Original Hole		
10,948.9		Perforated	8/12/2008	10,556.0	10,557.0	Corcoran, Original Hole		
11,035.4		Perforated	8/12/2008	10,566.0	10,567.0	Corcoran, Original Hole		
		Perforated	8/12/2008	10,616.0	10,617.0	Corcoran, Original Hole		
		Perforated	8/12/2008	10,672.0	10,673.0	Lower Corcoran, Original Hole		
		Perforated	8/12/2008	10,680.0	10,681.0	Lower Corcoran, Original Hole		
		Perforated	8/12/2008	10,692.0	10,693.0	Lower Corcoran, Original Hole		
		Perforated	8/12/2008	10,738.0	10,739.0	Lower Corcoran, Original Hole		
		Perforated	8/12/2008	10,760.0	10,761.0	Lower Corcoran, Original Hole		
		Perforated	8/12/2008	10,772.0	10,773.0	Lower Corcoran, Original Hole		
		Perforated	8/12/2008	10,790.0	10,791.0	Lower Corcoran, Original Hole		
		Perforated	8/12/2008	10,803.0	10,804.0	Lower Corcoran, Original Hole		
		Perforated	8/12/2008	10,886.0	10,887.0	Lower Corcoran, Original Hole		
		Perforated	8/12/2008	10,905.0	10,906.0	Lower Corcoran, Original Hole		
		Perforated	8/12/2008	10,919.0	10,920.0	Lower Corcoran, Original Hole		
		Perforated	8/12/2008	10,947.0	10,948.0	Lower Corcoran, Original Hole		
		Stimulation Intervals						
		Stage Completion Type	Stage Start Time	Stage #	Top (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)
		Sand Frac	8/12/2008	1	10,738.0	10,948.0	4,127.00	0
		Sand Frac	8/13/2008	2	10,384.0	10,693.0	4,060.00	0
		Sand Frac	8/13/2008	3	10,122.0	10,315.0	3,368.00	0
		Sand Frac	8/14/2008	4	9,530.0	9,919.0	7,410.00	0



Lease Review All - CR
Well Name: BOIES B-19P-O1

API Number 0510311109	WPC ID 8CO064825	Well Permit Number 20074794	Field Name Sulphur Creek	County Rio Blanco	State CO
Well Configuration Type Deviated/Directional	Orig KB Elev (ft) 6,246.00	Ground Elevation (ft) 6,217.00	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB) 11,037.0
Original Spud Date 6/8/2008	Completion Date 8/14/2008	Asset Group Central Rockies	Responsible Engineer Jared Huckabee	N/S Dist (ft) 362.0	N/S Ref FSL
				E/W Dist (ft) 1,093.0	E/W Ref FEL
Lot	Quarter 1 SE	Quarter 2 SE	Quarter 3	Quarter 4	Section 19
			Section Suffix	Section Type	Township 2
				Township N/S Dir S	Range 97
					Range E/W Dir W
					Meridian



Stage Completion Type	Stage Start Time	Stage #	Top (ftKB)	Btm (ftKB)	Vol Clean Total (bbl)	Stg Prop Total (lb)
Sand Frac	8/14/2008	5	9,156.0	9,417.0	3,330.00	0
Sand Frac	8/14/2008	6	8,734.0	9,039.0	3,205.00	0
Slickwater Frac	8/25/2011	1	8,313.0	8,605.0	0.00	0
Slickwater Frac	8/25/2011	2	8,018.0	8,283.0	0.00	0
Slickwater Frac	8/26/2011	3	7,702.0	7,994.0	6,011.00	0
Slickwater Frac	8/27/2011	4	7,452.0	7,643.0	0.00	0
Slickwater Frac	8/27/2011	5	7,146.0	7,403.0	4,617.00	0
Slickwater Frac	8/28/2011	6	6,935.0	7,103.0	0.00	0

Tubing Strings									
Production - Flowing set at 9,090.6ftKB on 8/28/2012 15:00									
Set Depth (ftKB)	Comment						Run Date	Pull Date	
9,090.6							8/28/2012		
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	
Tubing	2.375	1.995	4.60	N-80	277	8,996.44	29.0	9,025.4	
Nipple	2.375				1	1.18	9,025.4	9,026.6	
Tubing	2.375	1.995	4.60	N-80	1	31.23	9,026.6	9,057.9	
XN Nipple	2.375				1	1.22	9,057.9	9,059.1	
Tubing	2.375	1.995	4.60	N-80	1	31.21	9,059.1	9,090.3	
Notched Collar	2.375				1	0.35	9,090.3	9,090.6	

Rod Strings							
<des> on <dtmrun>							
Rod Description				Run Date		Pull Date	
Item Des	OD (in)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	

Other Strings						
Set Depth (ftKB)	Comment				Run Date	Pull Date
Item Des		OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)

Other In Hole									
Wellbore	Des			OD (in)	ID (in)	Run Date	Top (ftKB)	Btm (ftKB)	
Original Hole	Cast Iron Bridge Plug			4		8/27/2012	10,827.0	10,833.0	

Bottom Hole Cores									
Date	Core #			Top (ftKB)	Btm (ftKB)		Recov (ft)		

Comments									
Start Date	Type					Com			