

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

CONSOL PENNSYLVANIA COAL CO., LLC.  
Coal Operator or Owner  
1525 PLEASANT GROVE RD. CLAYSVILLE, PA 15323  
1000 CONSOL ENERGY DRIVE CANONSBURG, PA 15317  
Address

CONSOL PENNSYLVANIA COAL CO., LLC.  
Coal Operator or Owner  
1525 PLEASANT GROVE RD. CLAYSVILLE, PA 15323  
1000 CONSOL ENERGY DRIVE CANONSBURG, PA 15317  
Address

RIGGGLE, RALPH CURTIS  
Lease or Property Owner  
RD 4, BOX 247 CAMERON, WV 26033  
Address

CONSOL PENNSYLVANIA COAL CO., LLC.  
Name of Well Operator  
1525 PLEASANT GROVE RD. CLAYSVILLE, PA 15323  
Complete Address  
MAJORSVILLE, WV-PA 7.5'  
Well Location  
WEBSTER  
District  
MARSHALL  
County  
5010  
Well No.  
RIGGGLE, RALPH CURTIS  
Farm

STATE INSPECTOR SUPERVISING PLUGGING \_\_\_\_\_

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of MONONGALIA ss:

ROBERT STEEL and KEVIN WRIGHT being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Consol Pennsylvania Coal Company, LLC. Well Operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 26<sup>th</sup> day of July, 2011 and that the well was plugged in the following manner:

Sand or Zone Record Formation	Filling Material	Casing/Tubing Size	Casing Pulled	Casing Left In
Cleaned out 7" casing from the surface to 2073' with a 6 1/4" bit. Removed 637' of 7" casing from the surface to 637'. Left 1214' of 7" casing in the hole from 1864' to 637'. Cement bond log indicated that the 7" casing was cemented in the hole from 1864' to 637'. Cut remaining 7" casing at the following depths; 1768', 1668', 1568', 1468', 1368', 1268' and 1168'. Cemented bottom hole from 2073' back to 1200' with 150 sacks of Expandable Cement. Removed 637' of 8 5/8" casing from the surface to 637'. Left 654' of 8 5/8" casing in the hole from 1291' to 637'. Left 775' of 10 3/4" casing in the hole from 775' to surface. Left 142' of 13 3/8" casing in the hole from 142' to surface. Multi string cut 7" and 8 5/8" casings at 795'. Sand cut 7", 8 5/8" and 10 3/4" casings through the Pittsburgh Coal 752' - 758'. Sand cuts were made at the following depths; 760', 758', 757.5', 755.5', 754', 752', 750' and 700'. <b>Cemented hole from 2073' to surface as follows:</b> From 2073' to 1200' with Expandable Cement. From 1200' to 958' with Expandable Cement. From 958' to 652' with 100 sacks of Thixotropic Cement with green dye. From 652' to surface with Expandable Cement. A total of 450 sacks of cement were used to fill the hole from 2073' to surface. Cement did circulate at the surface.	13 3/8" Casing 10 3/4" Casing 8 5/8" Casing 7" Casing	0' 0' 637' 637'	142' 775' 654' 1214'	
<b>Coal Seams</b> <u>Pittsburgh</u>	(752' - 758')	<b>Description of Monument</b> 77" of 7" casing w/ company name, well number, permit number and date cemented stated on 7" casing. Well marker will be attached to the cement plug at ground level.		

RECEIVED  
Office of Oil & Gas  
OCT 17 2011  
WV Department of Environmental Protection

... and that the work of plugging and filling said well was completed on the 12<sup>th</sup> day of August, 2011

And further deponents saith not.

Robert Steel  
Robert Steel

Kevin S. Wright  
Kevin S. Wright

Sworn to and subscribed before me this 19<sup>th</sup> day of September, 2011

10/21/2011

Jacqueline L. Shriver  
Notary Public

NOTARIAL SEAL  
JACQUELINE L. SHRIVER  
Notary Public  
DUNKARD TWP., GREENE COUNTY  
My Commission Expires Jun 1, 2015

My commission expires:

June 1, 2015

Permit No. 47-051-00254-P  
Well No. 5010

# Plugging Report for MSHA

# ORIGINAL

Well Number: 5010 Mine: Bailey Mine  
 Permit Nbr: 47-51-00254-P  
 Date Clean Out Started: 7/26/2011  
 Date Well Bore Plugged: 8/12/2011  
 Pittsburgh Coal Seam: 752 ft. To 758 ft.

Plugs:	From	To	Type of Cement
	<u>2073'</u>	<u>1200'</u>	<u>Expandable Cement</u>
	<u>1200'</u>	<u>958'</u>	<u>Expandable Cement</u>
	<u>958'</u>	<u>652'</u>	<u>Thixotropic with Green Dye Cement</u>
	<u>652'</u>	<u>Surface</u>	<u>Expandable Cement</u>

Thix Top: **652'**

### Casing Remaining in Well Bore

	Top	Bottom	Left	Pulled
Sucker Rods				
2 3/8" tubing				
4 1/2" casing				
7" casing	637'	1864'	1214'	637'
8 5/8" casing	637'	1291'	654'	637'
10 3/4" casing	Surface	775'	775'	0'
13 3/8" casing	Surface	142'	142'	0'
Other				

Pittsburgh Coal

**752'  
to  
758'**

Surface  
Top of 13 3/8" and 10 3/4" Casings at Surface

Expandable Cement

Bottom of 13 3/8" casing at 142'

Top of 7" and 8 5/8" casings at 637'

Sand cut 7", 8 5/8" and 10 3/4" casings at 700'

Sand Cut 7", 8 5/8" and 10 3/4" Casings at 750', 752', 754', 756.5', 757.5', 758' and 760'.

Bottom of 10 3/4" Casing @ 775'

7" and 8 5/8" casings cut at 795'

Thix with Green Dye

Thix Bottom: **958'**

Cement:		
Expandable	<u>350</u>	sacks
Thixotropic	<u>100</u>	sacks
Mud Flush	<u>1000</u>	Gals.
Other	<u>Green Dye</u>	
Est. Top Thix	<u>652'</u>	ft
Did Cement Circ.	<u>Yes</u>	

### Comments:

Caving: Moderate Normal Extreme  
 Lost Circulation: Extreme Moderate Normal  
 Difficulty in Removing Casing: Extreme Moderate Normal  
 Debris in Well Bore: Wood Steel Other: \_\_\_\_\_

Expandable Cement

7" casing cut at 1168'  
 7" casing cut at 1268'  
 Bottom of 8 5/8" Casing at 1291'  
 7" casing cut at 1368'  
 7" casing cut at 1468'  
 7" casing cut at 1568'  
 7" casing cut at 1668'  
 7" casing cut at 1768'  
 Bottom of 7" casing at 1864'

**Total Depth: 1942'**

In accordance with the 101-C Petition for Bailey Mine, a diligent effort was made to remove all casing in the borehole. However, due to a strong cement bond, the casing could not be removed. Several cuts were made through the casing below the coal seam to allow the cement slurry to infiltrate the annulus between the casing and the borehole wall to prohibit gas migration from the gas producing strata into the coal mine through the plugged well. The initial cut was made approximately 1010 feet below the Pittsburgh coal seam with additional cuts/sand cuts made as shown on the diagram above.

10/27/2011