

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.  
Name of Well Operator  
1525 PLEASANT GROVE RD. CLAYSVILLE, PA 15323  
Complete Address  
MAJORSVILLE, WV-PA 7.5'

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

Well Location  
WEBSTER  
District  
MARSHALL  
County  
5005  
Well No.  
RIGGGLE, RALPH CURTIS  
Farm

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

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 15<sup>th</sup> day of August, 2011 and that the well was plugged in the following manner:

Sand or Zone Record	Filling Material	Casing/Tubing Size	Casing Pulled	Casing Left In
Formation				
	Cleaned hole from the surface to 1985' with 2 3/8" drill pipe. Perforated 4 1/2" casing with 2 shots each at the following depths; 1900', 1800', 1700', 1600', 1500', 1400', 1300', 1200', 1100' and 1000'. A total of 20 shots were used to perforate the 4 1/2" casing. Cemented bottom hole from 1985' to 1000' with 60 sacks of Expandable Cement. Cut 4 1/2" casing and attempted to pull but no movement was detected at each of the following depths; 898', 800', 481', 450' and 39'. Sand cut the 4 1/2", 7", 8 5/8" and 10 3/4" casings and attempted to pull at 500' and 189' with no movement detected at either sand cut. Sand cut the 4 1/2", 7", 8 5/8" and 10 3/4" casings through the Pittsburgh Coal 776' - 782'. Sand cuts were made at the following depths; 831', 783.5', 781.5', 780', 778.5', 777', 775.5', 773', 771.5' and 723'. Cleaned 2 3/8" hole back to top of bottom hole plug at 1000'. All casing depths were taken from original well record.	13 3/8" Casing	0'	57'
		10 3/4" Casing	0'	762'
		8 5/8" Casing	0'	1302'
		7" Casing	0'	1850'
		4 1/2" Casing	0'	1985'
	<u>Cemented hole from 1985' to surface as follows:</u> From 1985' to 1000' with 60 sacks of Expandable Cement. From 1000' to 676' with 40 sacks of Thixotropic Cement with green dye. From 676' to surface with 50 sacks of Expandable Cement. A total of 150 sacks of cement were used to fill the hole from 1985' to surface. Cement did circulate at the surface.			
Coal Seams		Description of Monument		
<u>Pittsburgh</u>	<u>(776' - 782')</u>	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.		

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WV Department of  
Environmental Protection

... and that the work of plugging and filling said well was completed on the 26<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

My commission expires:

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

Permit No. 47-051-00335-P  
Well No. 5005

June 1, 2015

Plugging Report for MSHA

ORIGINAL

Well Number: 5005 Mine: Bailey Mine  
 Permit Number: 47-51-00335-P  
 Date Clean Out Started: 8/15/2011  
 Date Well Bore Plugged: 8/26/2011  
 Pittsburgh Coal Seam: 776 ft. To 782 ft.

Plugs:	From	To	Type of Cement
	<u>1985'</u>	<u>1000'</u>	<u>Expandable Cement</u>
	<u>1000'</u>	<u>676'</u>	<u>Thixotropic with Green Dye Cement</u>
	<u>676'</u>	<u>Surface</u>	<u>Expandable Cement</u>

Thix Top: **676'**

Casing Remaining in Well Bore

	Top	Bottom	Left	Pulled
Sucker Rods				
2 3/8" tubing				
4 1/2" casing	Surface	1985'	1985'	0'
7" casing	Surface	1850'	1850'	0'
8 5/8" casing	Surface	1302'	1302'	0'
10 3/4" casing	Surface	762'	762'	0'
13 3/8" casing	Surface	57'	57'	0'
Other				

Pittsburgh Coal

776'  
to  
782'

Sand Cut 4 1/2", 7", 8 5/8" and 10 3/4" Casings at 771.5', 773', 775.5', 777', 778.5', 780', 781.5' and 783'

Cement:		
Expandable	<u>110</u>	sacks
Thixotropic	<u>40</u>	sacks
Mud Flush	<u>500</u>	Gals.
Other	<u>Green Dye</u>	
Est. Top Thix	<u>652'</u>	ft
Did Cement Circ.	<u>Yes</u>	

Thix Bottom: **1000'**

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

Surface

Expandable Cement

Thix with Green Dye

Thix with Green Dye

Expandable Cement

Top of 4 1/2", 7", 8 5/8", 10 3/4" and 13 3/8" Casings at Surface  
 Bottom of 13 3/8" casing at 57'  
 Sand cut at 189'  
 Sand cut at 500'  
 Sand cut at 723'  
 Bottom of 10 3/4" casing at 762'  
 Sand Cut 4 1/2", 7", 8 5/8" and 10 3/4" Casings at 771.5', 773', 775.5', 777', 778.5', 780', 781.5' and 783'  
 Sand cut at 831'  
 4 1/2" casing perforated w/ 2 shots at 1000'  
 4 1/2" casing perforated w/ 2 shots at 1000'  
 4 1/2" casing perforated w/ 2 shots at 1000'  
 4 1/2" casing perforated w/ 2 shots at 1000'  
 Bottom of 8 5/8" casing at 1302'  
 4 1/2" casing perforated w/ 2 shots at 1000'  
 4 1/2" casing perforated w/ 2 shots at 1000'  
 4 1/2" casing perforated w/ 2 shots at 1000'  
 4 1/2" casing perforated w/ 2 shots at 1000'  
 Bottom of 7" casing at 1850'  
 4 1/2" casing perforated w/ 2 shots at 1000'  
 Bottom of 4 1/2" casing at 1985'

Total Depth: **1985'**

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.

10/21/2011