

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS



AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPPLICATE, one copy mailed to the Department, 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.

Farm name: I.W. Beaty Operator Well No.: 5096

LOCATION: Elevation: 1269.01' Quadrangle: Glover Gap 7.5'  
District: Mannington County: Marion  
Latitude: \_\_\_\_\_ Feet South of 39 Deg. 31 Min. 50.42 Sec.  
Longitude: \_\_\_\_\_ Feet West of 80 Deg. 25 Min. 03.24 Sec.

Well Type: OIL \_\_\_\_\_ GAS X

Company Consolidation Coal Co Coal Operator 1 Bridge St  
or Owner Monongah, WV 26554  
Agent Ronnie Harsh Coal Operator \_\_\_\_\_  
or Owner \_\_\_\_\_  
Permit Issued Date 12/01/17

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Marion ss:

Michael P. Mitchell and Kevin S. 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 the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 7th day of December, 2017, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Expandable	1540'	1139'		
Thixotropic	1139'	813'		
Expandable	813'	Surface		
16" Conductor	Surface	18'	0'	18'

Description of monument: 77" of 7" casing with company name, well #, API #, and date cemented. and that the work of plugging and filling said well was completed on the 22nd day of December, 2017.

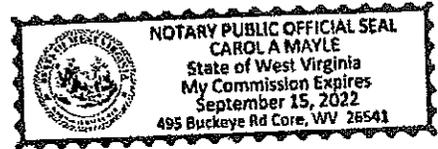
And further deponents saith not. Michael P. Mitchell

Kevin S. Wright

Sworn and subscribe before me this 9th day of Jan, 2018

My commission expires: 9-15-22

Carol A. Mayle  
Notary Public



Affidavit reviewed by the Office of Oil and Gas: S. D. ... Title: O&G Inspector

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, 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.

CONSOLIDATION COAL CO.  
Coal Operator or Owner  
1 BRIDGE STREET MONONGAH, WV 26554  
Address

CONSOLIDATION COAL CO.  
Coal Operator or Owner  
1 BRIDGE STREET MONONGAH, WV 26554  
Address

CONSOLIDATION COAL CO.  
Lease or Property Owner  
1 BRIDGE STREET MONONGAH, WV 26554  
Address

CONSOLIDATION COAL CO.  
Name of Well Operator  
1 BRIDGE STREET MONONGAH, WV 26554  
Complete Address  
GLOVER GAP  
Well Location  
MANNINGTON  
District  
MARION  
County  
5096  
Well No.  
I.W. BEATY  
Farm

COPY

STATE INSPECTOR SUPERVISING PLUGGING

*S. P. ...*

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of MONONGALIA ss:  
MICHAEL P. MITCHELL and KEVIN S. 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 Consolidation Coal Company well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 7<sup>th</sup> day of December, 2017 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		16"	0'	18'
<p>Cleaned hole with 12 1/2" bit from surface to 218'. Reduced hole to 9 7/8" bit at 218'. Cleaned hole with 9 7/8" bit from 218' to 1359'. Reduced hole to 7 7/8" bit at 1359'. Cleaned hole with 7 7/8" bit from 1359' to 1538'. Reduced hole to 6 1/4" bit at 1538'. Cleaned hole with 6 1/4" bit from 1538' to 1540'. Called sustainable total depth at 1540' drilling on a clay plug. Cleaned 9 7/8" hole through the Pittsburgh Coal Seam (932' - 939').</p> <p><u>Cemented hole back from 1540' to the surface as follows:</u> From 1540' to 1139' with 175 sacks of Expandable cement. From 1139' to 813' with 200 sacks of Thixotropic cement with green dye. From 813' to surface with 350 sacks of Expandable cement. Cement did circulate at the surface. Left 18' of 16" casing in the well from surface to 18'.</p>				
Coal Seams		Description of Monument		
Pittsburgh	(932' - 939')	77' of 7" casing w/ company name, well number, permit number and date cemented stated on 7" casing. Well marker will be attached to cement plug at ground level.		

... and that the work of plugging and filling said well was completed on the 22nd day of December, 2017

And further deponents saith not.

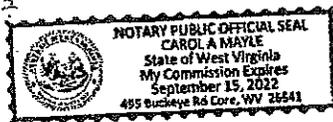
*Michael P. Mitchell*  
Michael P. Mitchell

*Kevin S. Wright*  
Kevin S. Wright

Sworn to and subscribed before me this 7<sup>th</sup> day of Jan 2018

*Carol A. Mayhew*  
Notary Public

My commission expires: 9-15-22



Permit No. 47-049-02472-P  
Well No. 5096  
Latitude: 39° 31' 50.42"N  
Longitude: 80° 25' 03.24"W



State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Discharge Monitoring Report  
Oil and Gas General Permit

Company Name: Consolidation Coal Company  
API No: 47-49-02472 County: Marion  
District: Mannington Well No: 5096  
Farm Name: I.W. Beaty  
Discharge Date/s From:(MMDDYY) 12/07/17 To: (MMDDYY) 12/22/17  
Discharge Times. From: 10:00 A.M. To: 5:00 P.M.  
Total Volume to be Disposed from this facility (gallons): 21000

Disposal Option(s) Utilized (write volumes in gallons):

- |                           |              |  |
|---------------------------|--------------|--|
| (1) Land Application:     | <u>0</u>     | (Include a topographical map of the Area.) |
| (2) UIC:                  | <u>0</u>     | Permit No. _____                           |
| (3) Offsite Disposal:     | <u>21000</u> | Site Location: <u>U-78-83</u>              |
| (4) Reuse:                | <u>0</u>     | Alternate Permit Number: _____             |
| (5) Centralized Facility: | <u>0</u>     | Permit No. _____                           |
| (6) Other method:         | <u>0</u>     | (Include an explanation)                   |

Follow Instructions below to determine your treatment category:

Optional Pretreatment test: \_\_\_\_\_ Cl- mg/l \_\_\_\_\_ DO mg/l N/A

1. Do you have permission to use expedited treatment from the Director or his representative?  
(Y/N) \_\_\_\_\_ If yes, who? \_\_\_\_\_ and place a four (4) on line 7.  
If not go to line 2
2. Was Frac Fluid or flowback put into the pit? (Y/N) \_\_\_\_\_ If yes, go to line 5. If not, go to line 3.
3. Do you have a chloride value pretreatment (see above)? (Y/N) \_\_\_\_\_ If yes, go to line 4  
If not, go to line 5.
4. Is the Chloride level less than 5000 mg/l? (Y/N) \_\_\_\_\_ If yes, then enter a one (1) on line 7.
5. Do you have a pretreatment value for DO? (See above) (Y/N) \_\_\_\_\_ If yes, go to line 6  
If not, enter a three (3) in line 7.
6. Is the DO level greater than 2.5 mg/l?(Y/N) \_\_\_\_\_ If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
7. \_\_\_\_\_ is the category of your pit. Use the Appropriate section.
8. Comments on Pit condition: \_\_\_\_\_

Name of Principal Exec. Officer: Ronnie Harsh

Title of Officer: Project Engineer

Date Completed: 12/22/17

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature of a Principal Exec. Officer or Authorized agent.

N/A

Category 1  
Sampling Results

API No : \_\_\_\_\_

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	5	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl	5,000	_____	5,000	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

\*\*\* Al is only reported if the pH is above 9.0

Category 2  
Sampling Results

API No : \_\_\_\_\_

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	10	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

\* Can be 25,000 with inspector's approval,

(Inspector's signature): \_\_\_\_\_

Date: \_\_\_\_\_

\*\* Include a description of your aeration technique.

Aeration Code: \_\_\_\_\_

\*\*\* Al is only reported if the pH is above 9.0

N/A

Category 3  
Sampling Results  
API No: \_\_\_\_\_

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	20	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

\* Can be 25,000 with inspector's approval,

(Inspector's signature): \_\_\_\_\_

Date: \_\_\_\_\_

\*\* Include a description of your aeration technique.

Aeration Code: \_\_\_\_\_

\*\*\* Al is only reported if the pH is above 9.0.

Category 4  
Sampling Results  
API No: \_\_\_\_\_

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	1	_____	N/A	N/A	Days
Fe	Monitor	_____	Monitor	_____	mg/l
D.O.	Monitor	_____	Monitor	_____	mg/l
Settleable Sol.	Monitor	_____	Monitor	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Activated Carbon (0.175)		_____	N/A	N/A	lb/Bl
Date Site Reclaimed	N/A	N/A			10 days from dis.
Disposal Area		_____	Monitor	_____	Acres

\* Can be 25,000 with inspector's approval,

(Inspector's signature): \_\_\_\_\_

Date: \_\_\_\_\_

# Plugging Report for MSHA

Well Number: 5096

Mine: Harrison County Mine

Surface

Permit Number: 47-049-02472-P

Date Clean Out Started: 12/7/2017

Date Well Bore Plugged: 12/22/2017

Pittsburgh Coal Seam: 932 ft. To 939 ft.

**Plugs:**

From	To	Type of Cement
1540'	1139'	Expandable Cement
1139'	813'	Thixotropic Cement w/ Green Dye
813'	Surface	Expandable Cement

**Casing Remaining in Well Bore**

Thix Top: 813'

	Top	Bottom	Left	Pulled
Sucker Rods				
2 3/8" tubing				
4 1/2" casing				
7" casing				
8 5/8" casing				
10 3/4" casing				
16" casing	Surface	18'	18'	0'
Other				

Expandable Cement

Thixotropic Cement w/  
Green Dye

Thixotropic Cement w/  
Green Dye

Expandable Cement

Top of 16" Conductor Casing at Surface

Bottom of 16" Conductor Casing at 18'

932' to  
939'

Pittsburgh Coal



COPY

**Cement:**

Expandable	<u>525</u>	sacks
Thixotropic	<u>200</u>	sacks
Econofill		sacks
Mud Flush	<u>1000</u>	gal
Other		
Est. Top Thix	<u>813</u>	ft
Did Cement Circ.	<u>Yes</u>	

**Comments:**

Caving: Extreme    Moderate    Normal  
 Lost Circulation: Extreme    Moderate    Normal  
 Difficulty In Removing Casing: Extreme    Moderate    Normal    Does Not Apply  
 Debris In Well Bore: Wood    Steel    Other: \_\_\_\_\_

Thix Bottom: 1139'

Surface Elevation (Surveyed)	<u>1274</u>
Bottom of Coal Structure (Map)	<u>343</u>
Difference	<u>931</u>

Total Depth: 1540'