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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffiman, Cabinet Secretary  
www.dep.wv.gov

November 25, 2014

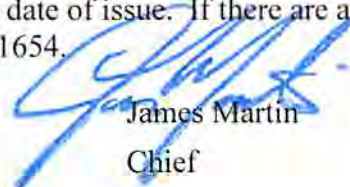
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-6101467, issued to CONSOLIDATION COAL COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: L-86  
Farm Name: CONSOLIDATION COAL CO.  
**API Well Number: 47-6101467**  
**Permit Type: Plugging**  
Date Issued: 11/25/2014

**Promoting a healthy environment.**

**11/28/2014**

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

6101467CP

FORM WW-4(B)  
Rev. 2/01

1.) Date: October 10, 20 14  
2.) Operator's Well No. L-86  
3.) API Well No. 47 - 61 - 01467  
State County Permit

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL & GAS  
APPLICATION FOR A PERMIT TO PLUG & ABANDON

4.) WELL TYPE: Oil \_\_\_\_\_ / Gas X / Liquid injection \_\_\_\_\_ / Waste disposal \_\_\_\_\_ /  
(IF "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X)  
5.) LOCATION: Elevation: 1598' Watershed: Paw Paw Creek  
District: Battelle County: Monongalia Quadrangle: Mannington 7.5'  
6.) WELL OPERATOR Consolidation Coal Co. 7.) DESIGNATED AGENT Ronnie Harsh  
Address 1 Bridge St. Address 1 Bridge St.  
Monongah, WV 26554 Monongah, WV 26554  
8.) OIL & GAS INSPECTOR TO BE NOTIFIED 9.) PLUGGING CONTRACTOR  
Name Gayne Knitowski Name \_\_\_\_\_  
Address P.O. Box 108 Address \_\_\_\_\_  
Gormanah, WV 26720

10.) WORK ORDER: The work order for the manner of plugging this well is as follows:

CBM Plug

SEE EXHIBIT NO. 1

Received  
Office of Oil & Gas  
OCT 17 2014

OK JANA

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

11/28/2014

## EXHIBIT NO. 1

The work order for the manner of plugging this well is as follows:

The wellbore will be cleaned out to the total depth or attainable bottom. An attempt to remove all casing shall be made by pulling a minimum of 150% of the casing string weight. From the total depth or attainable bottom to the surface, casing will be removed so that only a single string will be left in the wellbore, if it can be removed. Intact and uncemented casing as determined by electronic logging shall be perforated, ripped, or milled at no greater than 100 ft. intervals from total depth or attainable bottom, to the top of the casing. A borehole survey will be conducted to determine the top and bottom of any mineable coal seam. In addition, starting at a point 5 ft. below through 5 ft. above any mineable coal seam, any casing shall be ripped, cut, or perforated on no greater than 5 ft. intervals. Circulation will have been established using gelled water to the clean out depth. Expanding cement will be placed from the total depth or attainable bottom to 100 ft. above any mineable coal seam. From that point to the surface, a light cement mixture shall be used to fill the wellbore. A monument with the API No. will be set on the wellbore at the surface. All plugging work shall comply with WV Code Chapter 22 Article 6.

THIS WELL DOES NOT APPEAR TO HAVE ANY CASING IN IT.

8.2a  
8.6a

★ FROM 100' ABOVE ANY MINEABLE COAL THE WELL MUST BE FILLED WITH API CLASS A CEMENT WITH NO MORE THAN 3%  $\text{CaCl}_2$  AND NO OTHER ADDITIVES.

★ 8.11 PERMANENT MARKER - REFER TO - 8.11

6.2.e. A certification to the chief the notice requirements of this article have been completed by the applicant. Such certification shall be by affidavit(s) of personal service or return receipt card(s), or other postal receipt(s) for certified mailing.

**'35-3-7. Work Order: Manner and Method of Plugging a CBM Well.**

7.1. An applicant for a permit to plug a well shall set forth a detailed statement of the manner in which the work of plugging and filling such well is to be performed, including:

7.1.a Location (by depth);

7.1.b. Kind and length of plugs to be used and the method chosen to insure that no gap exists between the bottom of the coal protection string of casing and the expanding cement plug thereunder;

7.1.c. Plans for mudding, cementing, and filling;

7.1.d. Plans for altering or removing casing if required; and

7.1.e. All other pertinent information regarding said plugging and filling, all of which shall be in compliance with W. Va. Code '22-21-23. The information shall be submitted on Form WW-6B "Application to Plug and Abandon a CBM Well".

**7.2. Rights of Coal Owner or Operator Pursuant to W. Va. Code '22-21-22(b).**

7.2.a. Any coal owner or operator noticed within the "Application to Plug and Abandon" and whose coal seam is affected by such well shall have the following rights pursuant to W. Va. Code. '22-21-22:

7.2.a.1. To convert the well to a vent hole or otherwise take the well. In such event the chief, upon determination that the coal owner or operator has placed the well under a mining permit, shall release the well operator's bond and the well operator shall be relieved of further responsibility for the well.

7.2.a.2. To file comment or objection with the chief, within fifteen (15) days after receipt of intent to plug, with respect to the proposed manner or method of plugging. The chief shall consider any such comment or objection and issue an order specifying the manner and method of plugging and reclamation.

**7.3. Issuance of a Permit to Plug and Abandon a CBM Well.**

7.3.a. The chief shall issue an order within fifteen (15) days after the expiration of the comment and objection period, either permitting or rejecting such application and endorsed on Form WW-6B. The issuance or rejection shall be mailed to all parties noticed on the application to plug and abandon a CBM well. In entering any such order, the chief shall give special consideration to the ability to mine any affected coal seam safely and the protection of any affected coal seam for future mining.

7.3.b. Verbal permission may be given pursuant to WV Code '22-6-23 (c) in the event the well to be plugged and abandoned is one on which drilling or working operations have been continuously progressing pursuant to authorization granted by the office. Any verbal permission shall be given by the chief, or the supervising inspector, or any inspector who is available to supervise the plugging work. Unless such verbal approval is given by the chief, the well operator shall notify the chief's office by telephone of such verbal approval no later than the next regular working day.

7.4. When any coalbed methane well is located in that portion of a coal seam which will be mined within six (6) months, the well operator shall, within sixty (60) days after notice from the coal owner or coal operator that the well is to be mined through, plug the well. The well shall be plugged in accordance with the requirements of section 8 of this rule.

**35-3-8. Plugging of Coalbed Methane Wells When a Workable Coal Seam is Encountered.**

8.1. All coalbed methane and gob wells shall be plugged upon abandonment and shall be plugged in accordance with a plan filed and approved by the chief. The approved method of plugging shall require the plugging of the well will be sufficient to allow the well to be mined through safely.

**8.2. Method of Plugging.**

8.2.a. Materials Used in Plugging. Any non-porous materials including gels and cements to be used in plugging must be specified in the work order portion of Form WW-6B. All cement, except where expanding cement is used in conjunction with plugging, shall be American Petroleum Institute Class A Ordinary Portland Cement with no greater than 3% calcium chloride and no other additives. All non-porous materials used in conjunction with plugging shall be at least six percent (6%) bentonite gel.

If the operator furnishes satisfactory proof that different cement or non-porous material types are adequate, the chief may approve use of such different cement or non-porous materials. Materials and cements must be of a kind and quality accepted by the oil and gas industry and approved by the chief as suitable for the intended purpose and which otherwise comply with all provisions of law and accepted standards. The chief may approve the use of non-standard material or cement.

8.3. Length of Plug - All cement plugs, other than those across coal seams, shall be at least one hundred (100) feet in length unless a variance from such a requirement is granted pursuant to section 16 of this rule.

8.4. Retrieving Casing and Completing a Seal - The operator shall make reasonable efforts to cut and pull all recoverable casing (as determined by methods approved by the chief or his authorized representative). Equipment used to pull recoverable casing shall be rated and rigged at or above one hundred and fifty percent (150%) of the estimated weight of the heaviest string of recoverable casing, unless otherwise approved by the chief or his authorized representative. Sufficient instrumentation shall be used to accurately indicate the pulling force applied. When the fresh water casing has not been cemented to surface and the casing cannot be pulled, the operator shall make reasonable attempts to perforate the casing and squeeze cement behind the casing in the vicinity of the fresh water zones to prevent the contamination of the fresh water zone.

**8.5. Cleaning Out and Preparing Wells.**

8.5.a. The well shall be cleaned out along its entire length or, in the case of gob wells, if it is not feasible to clean out along the entire length, the well shall be cleaned to the lowest practical depth or at least below the lowest workable coal seam.

8.5.b. Either at the time of drilling the well or at least prior to the application to plug, a suite of logs shall be made consisting of a caliper survey if an open hole section is to be plugged, directional deviation surveys (at a minimum), logs or drillers' records suitable for determining the top and bottom of all coalbeds, logs or other mechanical means to determine the lengths along the casing where cement is present, and the location of the bridge plugs. If the required logs are done at the time of drilling, then they shall be filed with the chief and be available to the coal owner and operator.

8.5.c. When cleaning out a well, and based on the information determined in subdivision 8.5.a of this rule, a diligent effort will be made to remove all uncemented casing from at least 200 feet below to 100 feet above each workable coal seam in the well bore. Any remaining uncemented casing, as determined by cement bond log, shall be perforated or ripped at a minimum of 200 feet below and 100 feet above each workable coalbed at intervals spaced close enough to permit expanding cement slurry to infiltrate the annulus between the casing and the well bore.

8.5.d. The wellbore shall be completely filled and circulated with a gel that inhibits any flow of gas, supports the walls of the borehole, and densifies the expanding cement. This gel shall be pumped through open-end tubing run into the well.

8.6. Plugging Coalbed Methane Wells to the Surface. The following procedures shall be used when plugging coalbed methane wells to the surface:

8.6.a. A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and fill the borehole to the surface. As an alternative, after the expanding cement slurry is pumped down the tubing so that the wellbore is filled to a point approximately 100 feet above the top of the topmost workable coalbed, materials permitted under subsection 8.2 of this rule may be used to fill the wellbore from that point to the surface.

8.6.b. A small quantity of steel turnings, or other detectable material, shall be embedded in the top of the cement near the surface to serve as a permanent magnetic monument of the borehole.

8.7. Plugging Coalbed Methane Wells Using the Vent Pipe Method. The following procedures shall be used when using the vent pipe method for plugging coalbed methane wells:

8.7.a. A vent pipe sized appropriately based on the existing casing in the well shall be run into the wellbore to a depth of the lesser of the bottom of the well or 100 feet below the workable coalbed and cemented to 100 feet above the uppermost workable coalbed.

8.7.b. A cement plug shall be set in the wellbore by pumping an expanding cement slurry, Portland cement, or a Portland cement-fly ash mixture down the tubing to displace the gel so that the borehole is filled with cement. The borehole shall be filled with expanding cement from the bottom of the well to 100 feet above the target seam or producing horizon.

8.7.c. All fluid shall be evacuated from the vent pipe to facilitate testing for gases.

8.7.d. The top of the vent pipe shall be protected to prevent liquids or solids from entering the wellbore, but permit ready access to the full internal diameter of the vent pipe when necessary.

8.7.e. The vent shall extend at least 30 inches above the ground and have a tag affixed with the well identification or in some manner identify the well.

8.8. The chief may allow alternate plugging methods or waive certain of the requirements of subsections 8.5 and 8.6 provided the coal owner and operator consents in writing to such alternate methods. The chief may also require additional steps to be taken during plugging to insure conformance with any requirements a state or federal agency which has jurisdiction over mine safety may impose or require for a safe mine through of the well.

8.9. An affidavit of plugging shall be filed with the chief, stating the plugging method used and any deviations from the proposed plugging plan.

8.10. Plugging when a coalbed methane well does not encounter a workable coalbed, including the target horizon, or a gob well does not encounter a workable coal seam.

8.10.a. When a coalbed methane well or gob well does not encounter a workable coalbed, upon abandonment shall be plugged in accordance with the provision of this section.

8.10.b. All materials used in plugging shall be in accordance with subsection 8.2 of this rule.

8.10.c. The wellbore shall be filled from the bottom of the well with non-porous material and cement to the surface. At a minimum, a cement plug extending from the surface to a depth of 100 feet shall be placed in the well.

8.10.d. An affidavit of plugging shall be filed with the chief by the operator stating the method of plugging used and any deviation from the plugging plan.

★

8.11. Permanent Marker. - Except as provided below, upon the completion of the plugging and filling of any abandoned CBM well which was not subsequently converted to a vent hole by the coal operator, a permanent monument or marker consisting of a length of pipe (minimum diameter size six (6) inches) filled with concrete (or the equivalent thereof approved by the chief) shall be erected over the well. The marker shall extend no less than thirty (30) inches above the surface and no less than ten (10) feet below the surface and into the well, and shall be sealed with concrete for the purpose of making the marker permanent. The API well identification number which consists of the state (047), county (001 through 109), and permit number shall be attached or stamped in a permanent manner to said monument. Such number shall be no less than one half (1/2) inch in height and detectable by any interested person approaching the monument. The erection of a monument shall in no way interfere with the bleeder pipe from the well where such pipe is required, or the vent or other device installed pursuant to W. Va. Code '22-6-24. Such monument shall be accurately described on Form WR-38, "Affidavit of Plugging and Filling Well" as well as the time and manner of plugging and filling and shall be approved by the chief as a satisfactory landmark which may be used as such in the location of adjacent wells. Two (2) permanent reference points with courses and distances from the abandoned well shall be designated and prescribed on the plat required by 35 CSR 4, subdivision 5.2.d, in the form prescribed by 35 CSR 4, section 9, accompanying the Form WW-6A, "Notice of Intention to Plug and Abandon a Well", or if any change in the plat is necessary, accompanying Form WR-38, "Affidavit of Plugging and Filling Well".

**35-3-9. Form and Contents of Plats.**

9.1. Statutory Requirements for Plats - Any plats required to be furnished under W. Va. Code '22-21-6 or 22-21-15 shall contain all information specified in those statutory sections.

9.2. Additional Requirements for Plats - Any plat required to be furnished under W. Va. Code '22-21-6 or 22-21-15 for coalbed methane wells shall conform to the standards of accuracy and depiction for plats for wells:

9.2.a. The plat shall conform to the standards and depictions set forth in 35 CSR 4, subdivisions 9.2.a. through 9.2.h.

9.2.b. Topographic Map Location of Coalbed Methane Well - The topographic map location of the coalbed methane well for which any permit application is made pursuant to W. Va. Code '22-21-6 shall be shown on the plat by a "cross" with the measured distance in feet from the nearest two point five (2.5) minute



State of West Virginia  
 Department of Environmental Protection  
 Office of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Consolidation Coal Company Operator Well No.: L-86

LOCATION: Elevation: 1598 Quadrangle: Mannington

District: Battelle County: Monongalia  
 Latitude: 4,328.67 Feet South of 39 Deg. 37 Min. 30 Sec.  
 Longitude: 3,133.33 Feet West of 80 Deg. 17 Min. 30 Sec.

Company: CNX Gas Company LLC (North)

	Casing & Tubing	Used In Drilling	Left In Well	Cement Fill Up Cu. Ft.
Address: 1800 Washington Road Pittsburgh, PA 15241				
Agent: Edwin Merrifield				
Inspector: Steve Mossor				
Date Permit Issued: 1/21/2003				
Date Well Work Commenced: Existing Borehole				
Date Well Work Completed: Converted to well				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 1195				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 1180				

OPEN FLOW DATA

Producing formation	<u>Pittsburgh Coal Seam</u>	Pay zone depth (ft)	<u>1180</u>
Gas: Initial open flow	<u>225</u> MCF/d	Oil: Initial open flow	<u>0</u> Bbl/d
Final open flow	<u>225</u> MCF/d	Final open flow	<u>0</u> Bbl/d
Time of open flow between initial and final tests	<u>0</u> Hours		
Static rock pressure	<u>1</u> psig (surface pressure) after	<u>-</u> Hours	
Second producing formation	<u>None</u>	Pay zone depth (ft)	
Gas: Initial open flow	_____ MCF/d	Oil: Initial open flow	_____ Bbl/d
Final open flow	_____ MCF/d	Final open flow	_____ Bbl/d
Time of open flow between initial and final tests	_____ Hours		
Static rock pressure	_____ psig (surface pressure) after	_____ Hours	

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATION ENCOUNTERED BY THE WELLBORE.

Signed: Joseph P. Aman  
 By: Joseph P. Aman  
 Date: September 2, 2004



6101467CP

FORM WW-4(A)  
Revised 6-07

1) Date: October 10, 2014  
2) Operator's Well No. L-86  
3) API Well No. 47-061-01467  
State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) SURFACE OWNER(S) TO BE SERVED  
(a) Name Consol Energy  
Address 1000 Consol Energy Dr.  
Canonsburg, PA 15317  
  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(6) INSPECTOR Ganye Knitowski  
Address P. O. Box 108  
Gormania, WV 26720  
Telephone 304-546-8171

5)a) COAL OPERATOR  
Name CONSOLIDATION COAL CO.  
Address 1 Bridge St.  
Monongah, WV 26554  
  
(b) COAL OWNER(S) WITH DECLARATION:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) COAL LESSEE WITH DECLARATION:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application to Plug and Abandon a Well on form WW-4B, which sets out the parties involved in the work, and describes the well and its location and the plugging work order; and
- (2) The Plat (surveyor's map) showing the well location on Form WW-6.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-4(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivery by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery by the Chief.

WELL OPERATOR Consolidation Coal Company  
By \_\_\_\_\_  
Its Project Engineer / Agent  
Address \_\_\_\_\_  
Telephone \_\_\_\_\_

Received  
Office of Oil & Gas

Subscribed and sworn before me this 13<sup>th</sup> day of October, 2014  
Janet L. Lieving Notary Public  
Marcus County, State of West Virginia  
My commission expires June 13, 2014



Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

11/28/2014

6101467CP

U.S. Postal Service™ **CERTIFIED MAIL™ RECEIPT** R. Harsh L-86  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

OFFICIAL USE

7013 1090 0001 8349 0332

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.69



Sent To Consol Energy ✓  
 Street, Apt. No.,  
 or PO Box No. 1000 Consol Energy Drive  
 City, State, ZIP+4 Canaanburg, PA 15317

PS Form 3800, August 2006 See Reverse for Instructions

Received  
 Office of Oil & Gas  
 OCT 17 2014

11/28/2014

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Consolidation Coal Company OP Code 10950

Watershed Paw Paw Creek Quadrangle Mannington 7.5'

Elevation 1598 County Monongalia District Battelle

Description of anticipated Pit Waste: N/A

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No X

Will a synthetic liner be used in the pit? N/A If so, what mil.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number \_\_\_\_\_)
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Tanks, see attached letter)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Freshwater

If oil based, what type? Synthetic, petroleum, etc.? \_\_\_\_\_

Additives to be used? Bentonite, Bicarbonate of Soda

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Reused or Disposed (see attached letter)

-If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust \_\_\_\_\_

-Landfill or offsite name/permit number? \_\_\_\_\_

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature Bonnie Hunt

Company Official (Typed Name) \_\_\_\_\_

Company Official Title Project Engineer

Received  
Office of Oil & Gas  
OCT 17 2014

Subscribed and sworn before me this 13<sup>th</sup> day of October, 2014

Janet L. Lieving

My commission expires June 13, 2024



11/28/2014

6101467cp

Consolidation Coal Company  
Northern West Virginia Operations  
1 Bridge Street  
Monongah, WV 26554

phone: 304-534-4748  
fax: 304-534-4739  
e-mail: [ronnieharsh@consolenergy.com](mailto:ronnieharsh@consolenergy.com)  
web: [www.coalsource.com](http://www.coalsource.com)

\*Name: RONNIE HARSH  
\*title: Project Engineer

April. 7, 2014

**Department of Environmental Protection**

Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345  
Phone: (304) 926-0499  
Fax: (304) 926-0452


**To Whom It May Concern:**

As per the Department of Environmental Protection, Office of Oil and Gas request, Consolidation Coal Company, Northern West Virginia Operations, submits the following procedures utilizing pit waste.

Upon submitting a well work application (without general permit for Oil and Gas Pit Waste Discharge Application), Consolidation Coal Company, Northern West Virginia Operations, will construct no pits, but instead will use mud tanks to contain all drilling muds.

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP impoundment facilities number U-78-83, U-104-83, or U-1011-93.

Sincerely,



Ronnie Harsh  
Project Engineer

Received  
Office of Oil & Gas

OCT 17 2014

11/28/2014

6101467c P

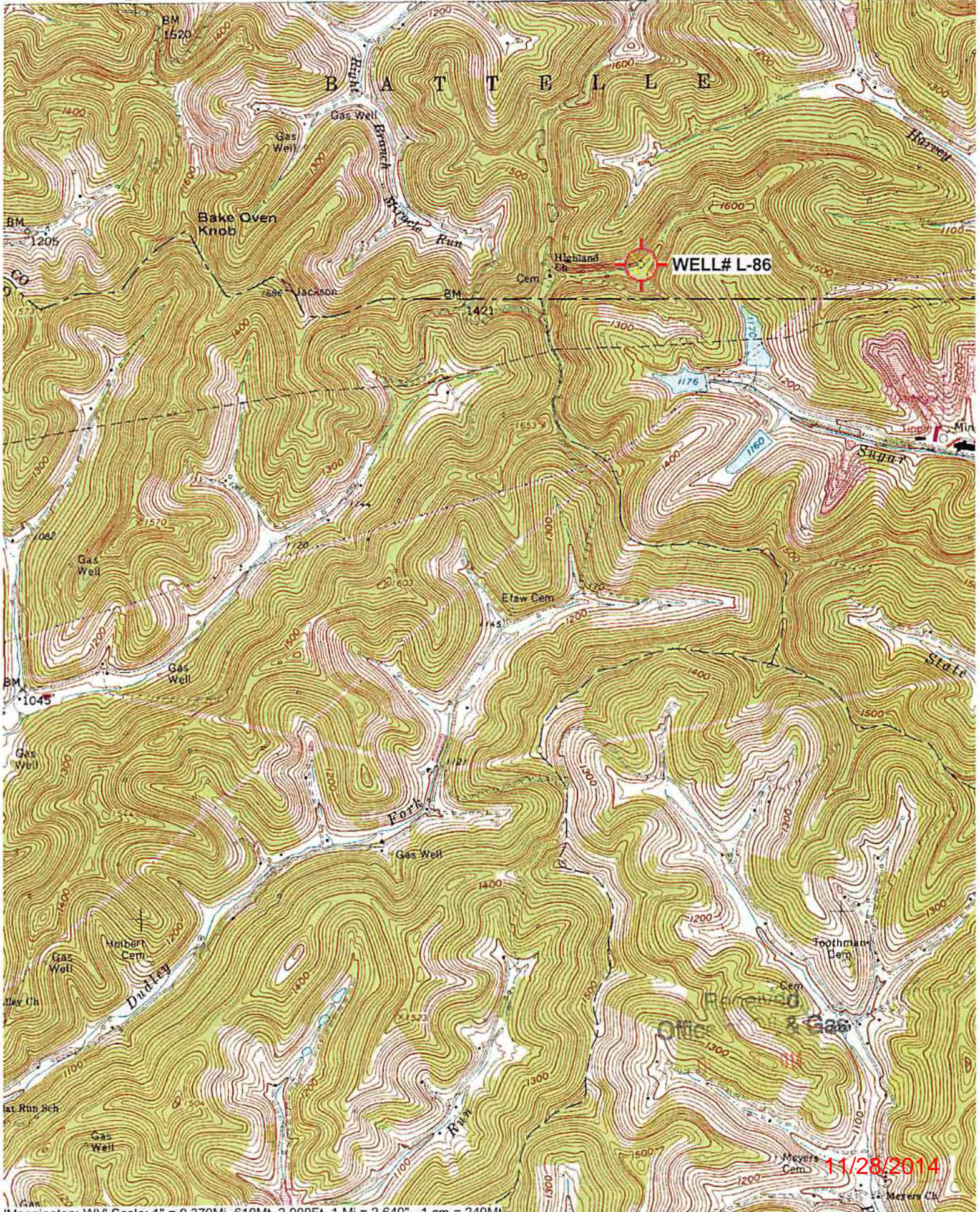
4963 III NE  
(WADESTOWN)

'57 20'

'58

'60

17'30" '61 1 780 000



11/28/2014

6101467CP

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-061-01467 WELL NO.: L-86

FARM NAME: Consolidation Coal Company

RESPONSIBLE PARTY NAME: Consolidation Coal Company

COUNTY: Monongalia DISTRICT: Battelle

QUADRANGLE: Mannington 7.5' 457

SURFACE OWNER: Consol Energy

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4,385,050 m

UTM GPS EASTING: 559,848 m GPS ELEVATION: 487 m (1598')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS X: Post Processed Differential \_\_\_\_\_  
Real-Time Differential \_\_\_\_\_

Mapping Grade GPS \_\_\_\_\_: Post Processed Differential \_\_\_\_\_  
Real-Time Differential \_\_\_\_\_

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

[Signature] Professional Surveyor  
Signature Title  
October 10, 2014  
Date

Received  
Office of Oil & Gas

ACT 17 2014

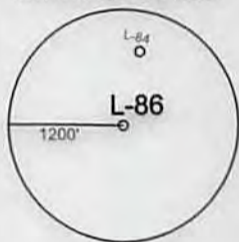
11/28/2014

FORM WV 8  
**LATITUDE**  
 39° 37' 30"



NORTH

SURROUNDING WELLS  
 WITHIN 1200' RADIUS



UTM ZONE 17 COORDINATES		TRUE LATITUDE/LONGITUDE	
NORTHING	4,385,050 M	39° 36' 47.2" N	
EASTING	559,848 M	80° 18' 10.0" W	

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

P.S.  
 2002



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE OCTOBER 10, 2014

OPERATORS WELL NO. L-86

API WELL NO. 47 - 61 - 014674 P  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1 / 2500 FILE NO.: MANNINGTON1.DWG  
 PROVEN SOURCE OF ELEVATION: GPS METADATA OR COMPANY NETWORK TIED INTO U.S.G.S. SCALE: 1"=2000'

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



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: 1598' WATERSHED: PAW PAW CREEK

DISTRICT: BATTELLE COUNTY: MONONGALIA QUADRANGLE: MANNINGTON, WV 7.5'

SURFACE OWNER: CONSOLIDATION COAL COMPANY ACREAGE: 150+/-

ROYALTY OWNER: \_\_\_\_\_ LEASE ACREAGE: \_\_\_\_\_

PROPOSED WORK: \_\_\_\_\_ LEASE NO.: 11/28/2014

DRILL: \_\_\_\_\_ CONVERT: \_\_\_\_\_ DRILL DEEPER: \_\_\_\_\_ REDRILL: \_\_\_\_\_ FRACTURE OR STIMULATE: \_\_\_\_\_ PLUG OFF OLD: \_\_\_\_\_

FORMATION: \_\_\_\_\_ PERFORATE NEW FORMATION: \_\_\_\_\_ PLUG AND ABANDON:  CLEAN OUT AND REPLUG: \_\_\_\_\_ OTHER: \_\_\_\_\_

PHYSICAL CHANGE IN WELL (SPECIFY): \_\_\_\_\_ TARGET FORMATION: NONE

ESTIMATED DEPTH: \_\_\_\_\_

WELL OPERATOR: CONSOLIDATION COAL COMPANY DESIGNATED AGENT: RONNIE HARSH  
 ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554 ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554

COUNTY NAME  
 PERMIT