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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. Huffman, Cabinet Secretary  
www.dep.wv.gov

January 02, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-6101349, issued to NOUMENON CORPORATION, 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: 4W2  
Farm Name: CONSOL. COAL  
**API Well Number: 47-6101349**  
**Permit Type: Plugging**  
Date Issued: 01/02/2015

**Promoting a healthy environment.**

**01/02/2015**

## 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.

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### 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.

6101349 P

WW-4B  
Rev. 2/01

- 1) Date August 12, 20 14
- 2) Operator's  
Well No. 4W2
- 3) API Well No. 47-051 - 01349-C

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X
- 5) Location: Elevation 297 meters Watershed Monongahela River  
District Clay County Monongalia Quadrangle Blacksville
- 6) Well Operator Noumenon Corporation 7) Designated Agent Lonnie Atkins  
Address 2461 Mason Dixon Hwy Address 2461 Mason Dixon Hwy  
Core, WV 26541 Core, WV 26541
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Gayne Knitowski Name Noumenon Corporation  
Address P.O. Box 108 Address 2461 Mason Dixon Hwy  
Gormaniam, WV 26720 Core, WV 26541

10) Work Order: The work order for the manner of plugging this well is as follows:  
**See Attached Work Order**

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SEP 16 2014

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

Work order approved by inspector *Gayne J Knitowski* Date 8/27/2014

01/02/2015

# Affidavit

I, Russell L. Bolyard hereby affirm that on the August the 19<sup>th</sup>, 2014 I personally visited Coal Bed Methane Well Site 47-061-01349-C, Well # 4W2 and verified its location and that I visually confirmed that to the best of my knowledge the well casing was cemented in to the surface.

Russell L. Bolyard

Russell L. Bolyard

## INDIVIDUAL ACKNOWLEDGMENT

State of: West Virginia  
County of: Monongalia

On this, the 29th, October, 2014, before me, a notary public, personally appeared Russell L. Bolyard known to me (or satisfactorily proven) to be the person whose name he subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.

Lois A. Brown  
Notary Public

My commission expires: August 22, 2017



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OCT 30 2014

WV Department of  
Environmental Protection

**WW-4B**  
**Application for Permit to Plug or Abandon**  
**Section 10-Work Order**


**API Well No:** 47-061-01349-C


**Operator Well #:** 4W2

**Well History:** Well 4W2 which was converted in 1998 to a Coal Bed Methane recovery well, previously the well had been installed as a Degas/Ventilation hole to support deep mining operations of the CONSOL Humphrey No. 7 Mine which was located in the Pittsburgh coal seam. According to Mr. Roger Duckworth, 37 Sand Plant Rd, Worthington, WV 26591 who was employed by CONSOL for many years and whose primary responsibility was to manage the DeGas development operations within the mine area the following procedures were used to construct the Degas Wells: The wells were generally drilled to the Sewickley Coal seam or approximately 90-100 feet above the Pittsburgh coal seam. The holes were cased and cemented in with solid steel pipe of varying diameters through the Waynesburg coal seam. Below the Waynesburg coal a slotted steel pipe was installed to the Sewickley Coal Seam. It was generally understood that the strata that broke above the mine due to subsidence would typically roofed out in or around the Sewickley Horizon this allowed the methane gas to then vent through the holes and the slotted pipe helped maintain an open pathway to the surface if the strata shifted.

**Casing Diameter:** 5" **Casing Thickness:** ¼" **Casing Reported Depth:** 427.0'

**Estimated Casing Weight:** 6,243 lbs. **Required lifting Capacity:** 9,365 lbs.

 **Casing Retrieval (35-4-13.6):** Noumenon Corporation will make a reasonable effort to cut and pull all recoverable casing from the well. Noumenon Corporation proposes to use a Bucyrus-Erie 28L Spudder Rig or other similar type equipment with a lifting capacity of at least 150% the estimated weight of the casing to perform the extraction process. If the pipe can be removed it will be brought to the surface in manageable lengths and cut using a Hydraulic Cut off saw, the pipe will be stockpiled for later removal or loaded immediately onto a trailer for removal to the Noumenon supply yard or taken straight to a salvage yard. If the casing cannot be pulled with reasonable effort then the operator will make reasonable attempts to perforate the pipe and squeeze cement behind the pipe in the grouting process so as to prevent contamination of the fresh water zone.

 **Plugging Methods (35-4-14):** The operator shall remove/bail all oils and or salt waters from the well prior to initiating the plugging process. The operator will install a bottom plug that is 100 feet thick from the base of the well using API Class A Portland Hydraulic Cement (with a Calcium Chloride content of 3% or less and no other additives) On top of the bottom plug the operator may install a Spacer plug of 6% Bentonite gel using a mixture rate of 100 lbs per 5bbl of water. The operator would then install a top or surface plug of cement as per the criteria mentioned above, a minimum of 100' feet below the surface. The Cement grout and bentonite gel shall be placed in the hole under pressure using a tremie tube and grout pump. No workable coal seams lie above the Sewickley coal seam.

**Plugging and Well Records (35-4-12.1):** The operator and or contractor hired to perform the plugging shall maintain a log or records of such detail that the entries and related data on Form WR-38 "Affidavit of Plugging and Filling Well" can be completed. The WR-38 shall reflect all data discovered or changes made after the permitted well work has been finished.

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**Reclamation of the Site:** Upon completion of the well plugging all equipment, piping and other debris from the plugging operation shall be removed from the site. All disturbance created by the plugging or access to the well site shall be reclaimed and vegetated to prevent erosion and sedimentation. The operator shall use utilize WV Department of Environmental Protections Best Management Practices as the criteria for Erosion and Sediment Control and revegetation.

**Monument:** Upon completion of the site reclamation and in conjunction with the closure of the well the operator shall install a monument in accordance with 35-4-(5) (b) and as follows:

1. The monument shall be made of steel pipe.
2. The diameter shall be 6"
3. The pipe shall be imbedded into the well head 10 feet below the surface level and protrude 30" above the ground surface.
4. The pipe shall be sealed with concrete cement.
5. The API Number shall painted onto the pipe in 1/2" height numbering.

**Responsible Parties:** The operator, contractors and drillers including all service companies are directed that they shall comply with WV Code 22-6

★ IF 5" CASING WAS CEMENTED TO SURFACE  
IT IS NOT NECESSARY TO PULL OR PERFORATE CASING.

*JWM*

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**STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
COALBED METHANE PERMIT APPLICATION**

- 1) Well Operator: Noumenon Corporation 2) Well Name 4W2
- 3) Operator's Well Number 4W2 4) Elevation 977'
- 5) Well Type: (a) Oil        / or Gas        /  
(b) If Gas: Production        / Underground Storage        / CBM<sup>X</sup>        /  
Deep        / Shallow        /
- 6) Proposed Target Formation(s): N/A
- 7) Proposed Total Depth: 480' feet As determined by wire line - 1998
- 8) Approximate Fresh Water Strata Depths: 100'
- 9) Approximate Salt Water Depths: Unknown
- 10) Approximate Coal Seam Depths: Pittsburgh 450' - See Attachment
- 11) Does Land Contain Coal Seams Tributary to Active Mines? Yes        / No X /
- 12) (a) Proposed Well Work: Conversion to CBM Well  
(b) If Stimulation Proposed, Describe Means to be Used to Stimulate Well: NA
- 13) (a) Does the proposed operation plan to convert an existing well (as defined in W. Va. Code § 22-6-1) or a vertical ventilation hole to a coalbed methane well? Yes     / No     /  
(b) If yes, please attach to this Application a list of all formations from which production is anticipated and a description of any plans to plug any portion of the well.
- 14) (a) Will the proposed coalbed methane well be completed in some but not all coal seams for production (except for a gob well or vent hole proposed to be converted to a well)? Yes     / No     /  
(b) If yes, please attach to this Application a plan and design for the well which will protect all workable coal seams which will be penetrated by the well.
- 15) (a) Does the proposed operation include horizontal drilling of a well commenced on the surface? Yes     / No X /  
(b) If yes, please attach to this Application a description of such operations, including both the vertical and horizontal alignment and extent of the well from the surface to total depth.

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu. ft.)
Conductor	5"				427'	
Fresh Water						
Coal						
Intermediate						
Production						
Tubing						
Liners						

PACKERS:

For Office of Oil and Gas Use Only

Fee(s) paid:   
  Well Work Permit   
  Reclamation Fund   
  WPCP  
 Plat   
  WW-9   
  WW-5B   
  Bond \_\_\_\_\_   
  Agent  
 (Type)



## ATTACHMENT WW-5B-10

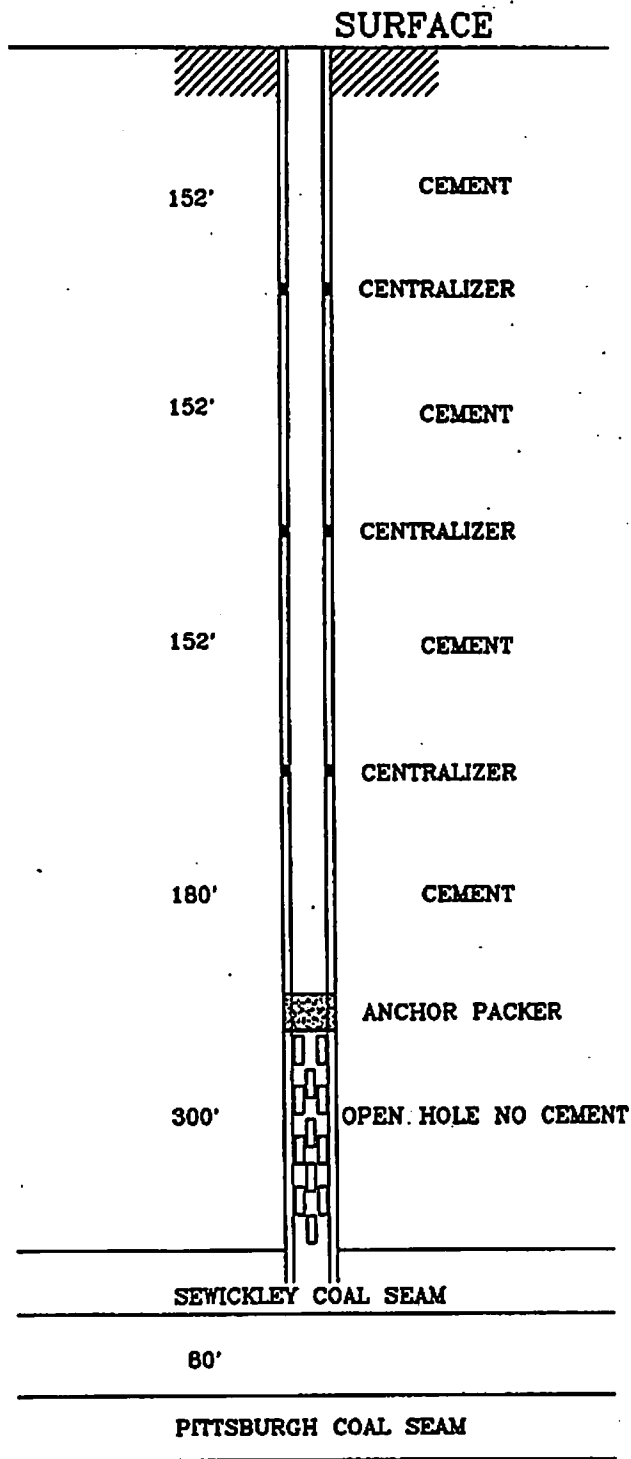
Well # 4W2Approximate Pittsburgh coal elevation: 450'Approximate surface elevation: 997'

Within 750 horizontal feet and 100 vertical feet of the Pittsburgh coal seam, there are no workable coal seams due to the thickness, quality, and marketability as per the WV Geological Survey Reports of 1913 for Monongalia County.

According to the WV Geological Report, the General Interval for the coal seams located above the Pittsburgh coal seam are:

Washington	510 feet	approximate thickness 2.0
Waynesburg-A	420 feet	approximate thickness 2.0
Waynesburg	360 feet	approximate thickness 5.0
Sewickley	100 feet	approximate thickness 5.0
Redstone	25 feet	approximate thickness 2.0

There is no known commercial development of these seams in the area of the Coalbed Methane Well.



DEPTH - VARIES  
DIAMETER - VARIES  
3/4" CASING THICKNESS

TYPICAL BOREHOLE PLAN  
FOR ALL  
DEGASIFICATION BOREHOLES

NOT TO SCALE

MFN - 338-D

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm name: CONSOL. COAL Operator Well No.: 4W2

LOCATION: Elevation: 976.00 Quadrangle: BLACKSVILLE

District: CLAY County: MONONGALIA
Latitude: 10745 Feet South of 39 Deg. 45Min. 0 Sec.
Longitude 675 Feet West of 80 Deg. 7 Min. 30 Sec.

Company: NOUMENON CORPORATION, a W
P. O. BOX 479
DELLSLOW, WV 26531-0000

Agent: STEPHAN K. SHUMAN

Inspector: RANDAL MICK
Permit Issued: 05/14/99
Well work Commenced:
Well work Completed:
Verbal Plugging
Permission granted on:
Rotary Cable Rig
Total Depth (feet)
Fresh water depths (ft)
Salt water depths (ft)

Is coal being mined in area (Y/N)?
Coal Depths (ft):

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft.

OPEN FLOW DATA

Producing formation 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

Second producing formation 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 WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

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For: NOUMENON CORPORATION, a W.V. CORP. Oil and Gas
By:
Date: SEP 16 2014

WV Department of Environmental Protection



6101349P  
Office of Oil and Gas  
#10 McJunkin Road  
Nitro, West Virginia 25143-2506  
304-759-0514  
304-759-0529

## West Virginia Division of Environmental Protection

Cecil H. Underwood  
Governor

Michael P. Miano  
Director

14-May-99

NOUMENON CORPORATION, a W.VA. CORP.  
STEPHAN K. SHUMAN  
P. O. BOX 479  
DELLSLOW, WV  
26531-0000

Re: Well No. 4W2  
API No. 47- 61-01349 C

Dear STEPHAN K. SHUMAN:

Enclosed is a well work permit which was issued 05/14/99 and applicable forms to be completed for reporting purposes during the well work activity. Please be advised that form WR-35, well operator's report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable.

Should stimulation still be required for the well, a disclaimer for such should be add to WR-35, and a revised WR-35 completed and submitted upon completion of the stimulation.

If there are any questions, please feel free to contact me at 304-759-0517 or Mr. Jamie Stevens at 304-759-0518.

Sincerely,

*Ava C. Gering*, CHIEF

Ava C. GERING, CHIEF  
OFFICE OF OIL AND GAS  
Office of Oil and Gas

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"To use all available resources to protect and restore West Virginia's environment in concert with the needs of present and future generations."

**DEP** West Virginia Department of  
Division of Environmental Protection

01/02/2015

Environmental Protection

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

WELL WORK PERMIT

This permit, issued to NOUMENON CORPORATION, a W.VA. CORP., 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 RANDAL MICK at 304-288-4600 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 1-800-654-3312 and to the Oil and Gas inspector.

Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

This permit shall expire within two (2) years from the issue date.

*Ava C. Zeitz*, CHIEF  
Ava C. Zeitz  
Chief  
Office of ~~Oil and Gas~~ OFFICE OF OIL AND GAS

Date of Signature: 5-18-99

Operator's Well No: 4W2

Farm Name: CONSOL. COAL

API Well Number : 61-01349

Date Issued : 5-14-99

Expires two (2) years from issue date

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Office of Oil and Gas

SEP 16 2014

WV Department of  
Environmental Protection

6101349P

WW-4A  
Revised 6-07

1) Date: August 12th, 2014  
2) Operator's Well Number  
4W2

3) API Well No.: 47 - 061 - 01349-C

**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:	5) (a) Coal Operator
(a) Name <u>CONSOL Energy Inc</u>	Name <u>Murray Energy Corporation</u>
Address <u>46226 National Road</u>	Address <u>46226 National Road</u>
<u>St. Clairsville, OH 43950</u>	<u>St. Clairsville, OH 43950</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Gayne Knitowski</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 108</u>	Name _____
<u>Gorman, WV 26720</u>	Address _____
Telephone <u>(304) 546-8171</u>	

**TO THE PERSONS 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 its 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 reverses side. However, you are not required to take any action at all.

Take notice that 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 delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

	Well Operator <u>Noumenon Corporation</u>
	By: <u>[Signature]</u>
	Its: _____
	Address <u>2461 Mason Dixon Hwy</u>
	Telephone <u>(304) 296-5460</u>

Subscribed and sworn before me this 25<sup>th</sup> day of August  
Russell L Bolyard Notary Public  
 My Commission Expires August 25th, 2019

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Office of Oil and Gas  
SEP 16 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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

01/02/2015

6101349P

7010 1670 0000 4944 1273

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)  
SAINT CLAIRSVILLE OH 43950

Postage	\$ 3.08	0890	
Certified Fee	\$3.30	03	
Return Receipt Fee (Endorsement Required)	\$2.70		Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00		
<b>Total Postage &amp; Fees</b>	<b>\$ 9.08</b>	<b>08/26/2014</b>	

**OFFICIAL USE**

Sent To  
 A. Consol Energy Inc  
 Street, Apt. No., or PO Box No. 46226 National Rd  
 City, State, ZIP+4 St. Clairsville, OH 43950

PS Form 3800, August 2006 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

**CONSOL ENERGY INC**  
**46226 NATIONAL RD**  
**SAINT CLAIRSVILLE, OH 43950**

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 Rick Hess  Agent  
 Addressee

B. Received by (Printed Name) Rick Hess C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below  No

3. Service Type  
 Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Transfer from service label) 7010 1670 0000 4944 1273

PS Form 3811, July 2013

Domestic Return Receipt



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Office of Oil and Gas

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WV Department of Environmental Protection

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6101349P

7010 1670 0000 4944 1358

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

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

SAINT CLAIRSVILLE OH 43950

**OFFICIAL USE**

Postage	\$ 5.80	0890
Certified Fee	\$3.30	03
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 11.80	08/26/2014

Sent To Murray Energy Corporation

Street, Apt. No.,  
or PO Box No. 46226 National Rd

City, State, ZIP+4 St. Clairsville OH 43950

PS Form 3800, August 2005 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Murray Energy Corporation  
46226 National Rd  
ST. Clairsville, OH  
43950

2. Article Number  
(Transfer from service label)

7010 1670 0000 4944 1358

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature Rick Hess  Agent  Addressee

B. Received by (Printed Name) R. C. Kites

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type

Certified Mail®  Priority Mail Express™

Registered  Return Receipt for Merchandise

Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

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 Environmental Protection

01/02/2015



6101349 P

WW-9  
Rev. 5/08

Page 1 of 1  
API Number 47 - 061 - 01349-C  
Operator's Well No. 4W2

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 Noumenon Corporation OP Code \_\_\_\_\_

Watershed Monongahela Quadrangle Blacksville

Elevation 297 meters County Monongalia District Clay

Description of anticipated Pit Waste: Not Applicable

Will a synthetic liner be used in the pit? \_\_\_\_\_  
*ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OF PROPERLY.*

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 \_\_\_\_\_)

Proposed Work For Which Pit Will Be Used:  
\_\_\_\_ Drilling \_\_\_\_\_ Swabbing  
\_\_\_\_ Workover \_\_\_\_\_ Plugging  
\_\_\_\_ Other (Explain \_\_\_\_\_)

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 *Stephen K. Shuman*

Company Official (Typed Name) Stephen K. Shuman

Company Official Title President

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Office of Oil and Gas

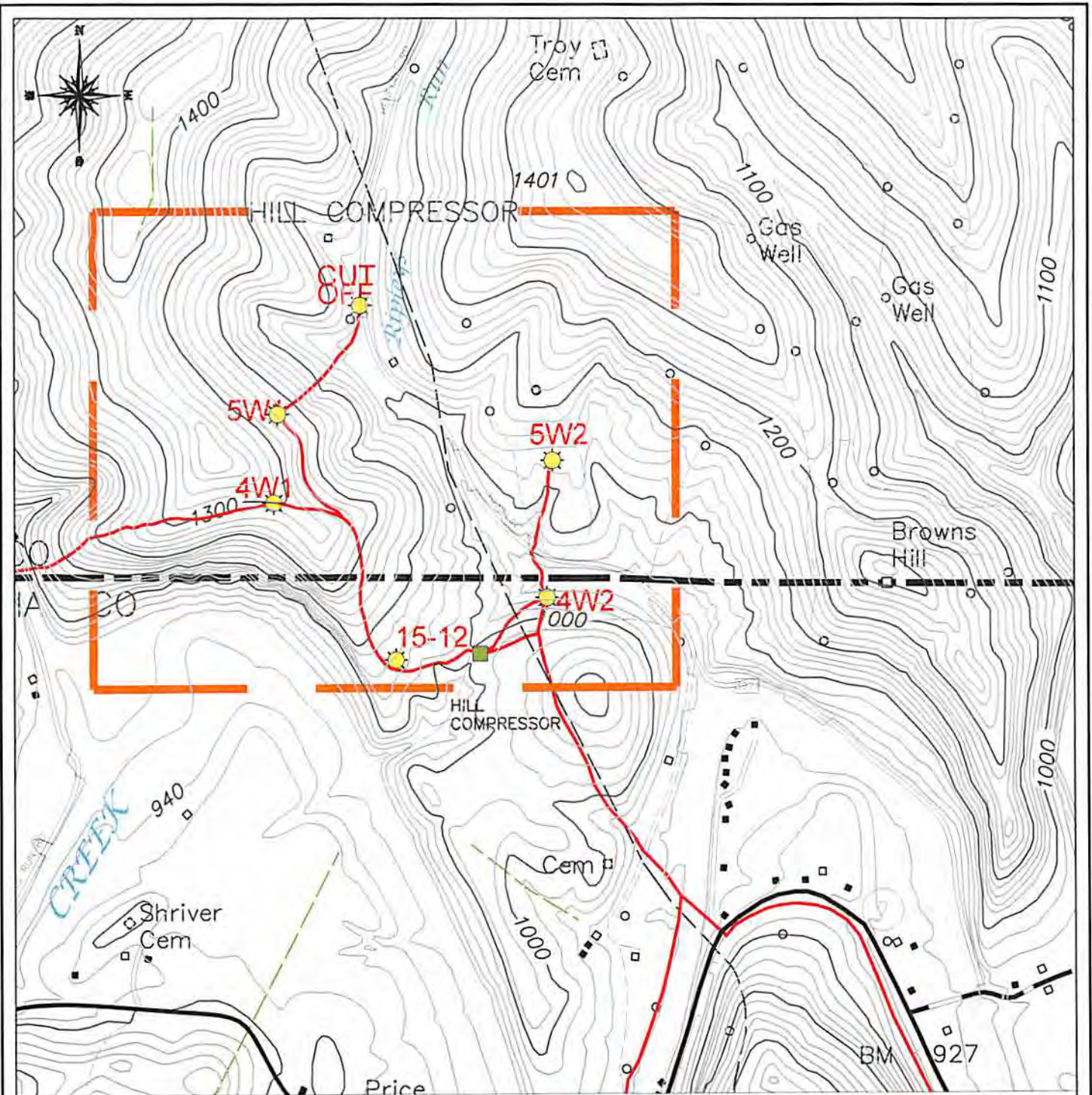
Subscribed and sworn before me this 25<sup>th</sup> day of August, 2014 SEP 16 2014

*Russell L. Bolyard* Notary Public WV Department of Environmental Protection

My commission expires August 25th, 2019






01/02/2015



**LEGEND**

UTM ZONE 17 S  
 EASTING: 574,800.45  
 NORTHING: 4,397,145.67  
 ELEVATION: 297 M

SURVEYED CBM WELL LOCATION   
 NON-SURVEYED CBM WELL LOCATION   
 GAS LINE 

0FT      1000FT      2000FT



**LOCATION MAP**

NOUMENON CORPORATION  
 2461 MASON DIXON HIGHWAY  
 CORE, WV 26547

API WELL NO. - 47-061-1349-C  
 OPERATOR'S WELL NO. - 4W2

CLAY DISTRICT - MONONGALIA COUNTY, WV  
 7.5 MINUTE SERIES - 20' CONTOUR INTERVAL  
 BLACKSVILLE, WV TOPO QUAD

6101349P

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-061-01349-C WELL NO.: 4W2

FARM NAME: CONSOL Energy Inc

RESPONSIBLE PARTY NAME: Lonnie Atkins

COUNTY: Monongalia DISTRICT: Clay

QUADRANGLE: Blacksville

SURFACE OWNER: CONSOL Energy Inc

ROYALTY OWNER: CONSOL Energy Inc

UTM GPS NORTHING: 4397145.67

UTM GPS EASTING: 574800.45 GPS ELEVATION: 297 (976')

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:  
Survey grade GPS  : Post Processed Differential   
Real-Time Differential   
Mapping Grade GPS  : Post Processed Differential   
Real-Time Differential

RECEIVED  
Office of Oil and Gas  
SEP 16 2014  
WV Department of  
Environmental Protection

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.

*Lonnie Atkins*

President

8/25/2014

Signature

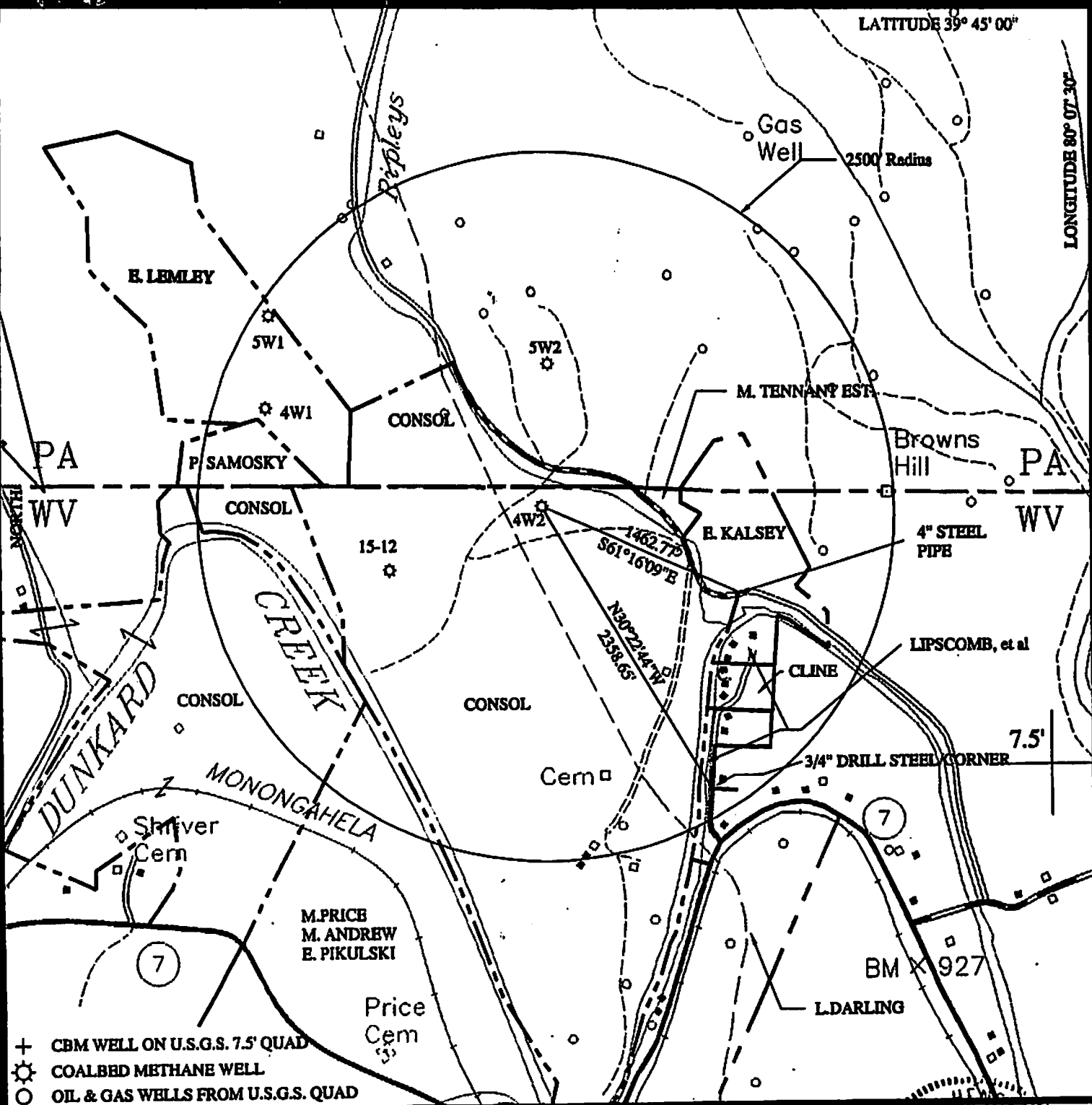
Title

Date

LATITUDE 39° 45' 00"

LONGITUDE 80° 07' 30"

10.745'



- + CBM WELL ON U.S.G.S. 7.5' QUAD
- ☼ COALBED METHANE WELL
- OIL & GAS WELLS FROM U.S.G.S. QUAD

FILE NO. MEN 40-0003  
 DRAWING NO. LAYER: GW-4W2  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF  
 ACCURACY SUB-METER GPS;  
TRIMBLE XR-PRO DIFFERENTIAL GPS  
 PROVEN SOURCE OF  
 ELEVATION DIFFERENTIAL GPS

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 DIVISION OF  
 ENVIRONMENTAL PROTECTION  
 (SIGNED) Ray M. Henderson  
 R.P.E. WV 2565 L.L.S.



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

DATE MARCH 3 SEP 16 2014  
 OPERATOR'S WELL NO. 4W2  
 API WELL NO. 47-061-1349-C  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 976.72' WATERSHED DUNKARD CREEK  
 DISTRICT CLAY COUNTY MONONGALIA  
 QUADRANGLE BLACKSVILLE, WV-PA

SURFACE OWNER CONSOLIDATION ACREAGE 278.25  
 OIL & GAS ROYALTY OWNER CONSOLIDATION LEASE ACREAGE N/A  
 COAL OWNER CONSOLIDATION LEASE NO. N/A

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR  
 STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW  
 FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)   
 PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION PITTSBURGH ESTIMATED DEPTH 480'  
 WELL OPERATOR NOUMENON DESIGNATED AGENT STEPHEN K. SHUMAN  
 ADDRESS P.O. BOX 842 ADDRESS 256 HIGH STREET  
MORGANTOWN, WV 26505 MORGANTOWN, WV 26505

MONONGALIA COUNTY NAME PERMIT

01/02/2015