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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, February 24, 2020  
WELL WORK PLUGGING PERMIT  
Coal Bed Methane Well Plugging

CNX GAS COMPANY LLC  
1000 CONSOL ENERGY DR

CANONSBURG, PA 15370

Re: Permit approval for 3D3  
47-049-01559-00-00

This well work permit 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 any additional specific 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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. 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.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief

Operator's Well Number: 3D3  
Farm Name: MCDOWELL, WILLIAM & A<sub>1</sub>  
U.S. WELL NUMBER: 47-049-01559-00-00  
Coal Bed Methane Well Plugging  
Date Issued: 2/24/2020

## 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.

47-049-01559P

WW-4B  
Rev. 2/01

1) Date 1/15, 2020  
2) Operator's Well No. 303  
3) API Well No. 47-049 - 01559 P

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  / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production  or Underground storage \_\_\_) Deep \_\_\_ / Shallow

5) Location: Elevation 1367 Watershed Campbells Run  
District Mannington County Marion Quadrangle Hundred

6) Well Operator CNX Gas Company LLC  
Address 1000 Consol Energy Dr.  
Canonsburg, PA 15317  
7) Designated Agent Anthony Kendziora  
Address 1000 Consol Energy Dr  
Canonsburg PA 15317

8) Oil and Gas Inspector to be notified  
Name Sam Ward  
Address P.O. Box 2327  
Buckhannon, WV 26201  
9) Plugging Contractor  
Name Coastal Drilling east LLC  
Address 70 gums Springs Road  
Morgantown WV 26508

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

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FEB 13 2020  
WV Department of  
Environmental Protection

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

Work order approved by inspector SLD Date 1/15/2020

Well: 3D3 (McDowell)

API#: 47-049-01559

District: Mannington

County: Marion

Elevation: 1367'

3D3 Proposed Plugging and Abandonment Procedure

1. Run in and tag TD (~1110) with wireline or small sandline tools. Confirm TD is inside slotted casing. (Make call to CNX if tagging high to come up with game plan)
2. Once TD has been reached, proceed to fill slotted casing with pea gravel. (1 ton= ~20 Cu. Ft. fill)
3. Once pea gravel has been placed in casing verify top of gravel
4. Once top of pea gravel has been verified TIH with tubing and prepare to cement
5. Place 50' cement plug on top of pea gravel
6. TOOH with cement string
7. Rig up wireline and tag cement plug
8. TOOH and prepare to run Bond Log on 8 5/8" casing if Bond Log tool will go to bottom
9. Run Bond Log from top of cement to surface to verify casing is cemented to surface. If cement top <sup>is</sup> found to not be at surface notify CNX and prepare to pull uncemented casing
10. If cement on 8 5/8" is at surface or once uncemented has been pulled prepare to cement well to surface
11. TIH with work string to cement plug and cement well to surface
12. TOOH w/ work string and top off well with cement
13. Install 6"x14' monument (10' below grade, 4' above grade). Monument must contain API#, Well Name, Company Name and Date Plugged

Note: All cement will be Class A. All spacers will be 6% gel

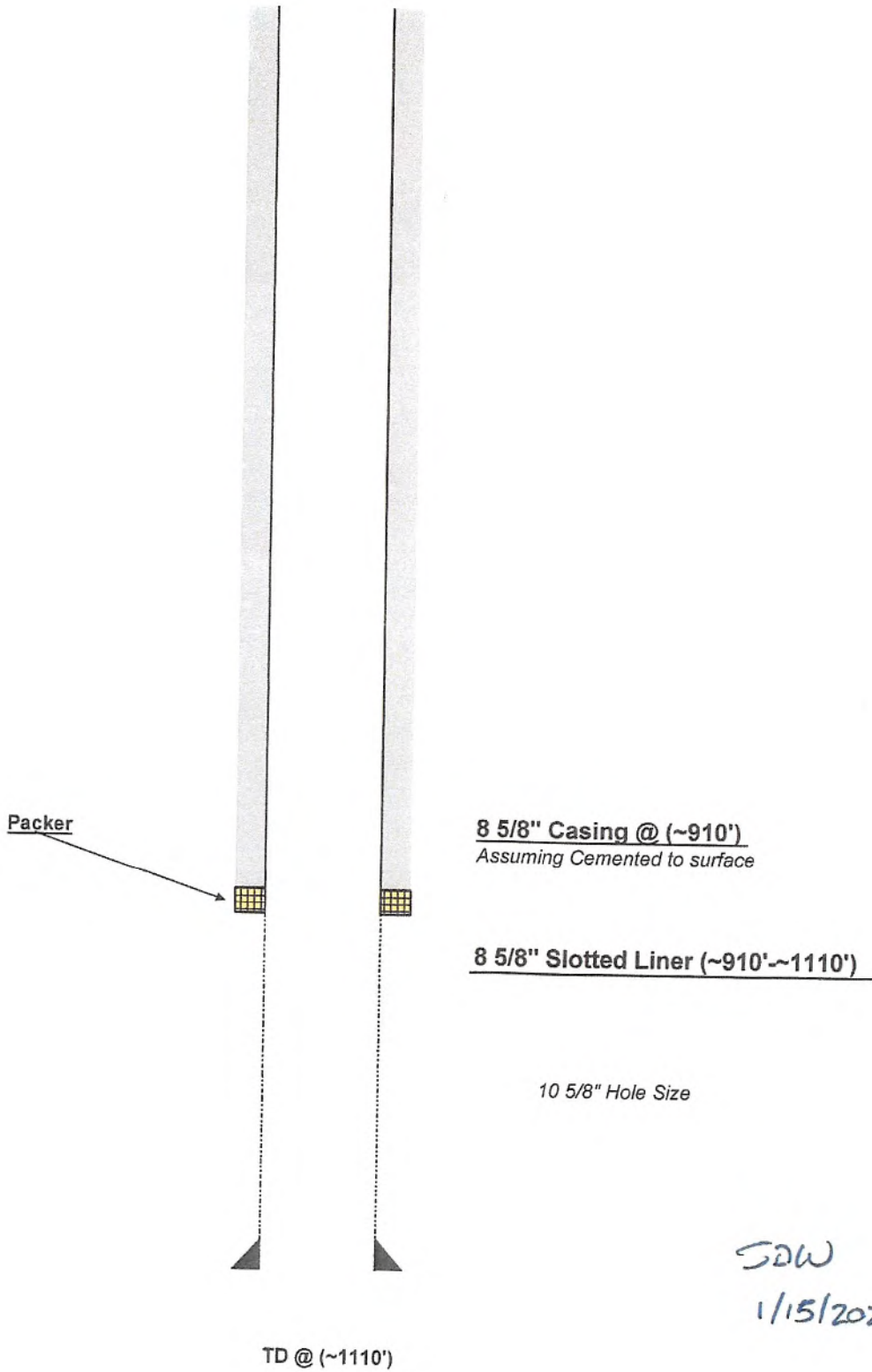
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1/15/2020

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**McDowell 3D3**  
Mannington District, Marion WV  
Original Completion : ?  
API #47-049-01559  
Elevation = 1367'



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1/15/2020

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State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47-049-01559 County Marion District Mannington  
Quad Hundred Pad Name McDowell 3D3 Field/Pool Name \_\_\_\_\_  
Farm name McDowell William E & Alice K Well Number 3D3  
Operator (as registered with the OOG) CNX Gas Company LLC  
Address 1000 Consol Energy Drive City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4386754.53 Easting 553284.04  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1367 GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
\_\_\_\_\_  
\_\_\_\_\_

Date permit issued \_\_\_\_\_ Date drilling commenced \_\_\_\_\_ Date drilling ceased \_\_\_\_\_  
Date completion activities began \_\_\_\_\_ Date completion activities ceased \_\_\_\_\_  
Verbal plugging (Y/N) \_\_\_\_\_ Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft \_\_\_\_\_ Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft \_\_\_\_\_ Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft \_\_\_\_\_ Cavern(s) encountered (Y/N) depths \_\_\_\_\_  
Is coal being mined in area (Y/N) \_\_\_\_\_

Reviewed by:  
SPW 1/15/2020

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WR-35  
Rev. 8/23/13

API 47-049 - 01559

Farm name McDowell William E & Alice K

Well number 3D3

| CASING STRINGS            | Hole Size | Casing Size              | Depth | New or Used | Grade wt/ft | Basket Depth(s) | Did cement circulate (Y/N)<br>* Provide details below* |
|---------------------------|-----------|--------------------------|-------|-------------|-------------|-----------------|--|
| Conductor                 |           |                          |       |             |             |                 |  |
| Surface                   |           |                          |       |             |             |                 |  |
| Coal                      |           |                          |       |             |             |                 |  |
| Intermediate 1            |           |                          |       |             |             |                 |  |
| Intermediate 2            |           |                          |       |             |             |                 |  |
| Intermediate 3            |           |                          |       |             |             |                 |  |
| Production                | 10.625    | 8.625                    | ~1110 |             |             |                 |  |
| Tubing                    |           |                          |       |             |             |                 |  |
| Packer type and depth set |           | Formation Packer @ ~910' |       |             |             |                 |  |

Comment Details \_\_\_\_\_

| CEMENT DATA    | Class/Type of Cement | Number of Sacks | Slurry wt (ppg) | Yield (ft <sup>3</sup> /sks) | Volume (ft <sup>3</sup> ) | Cement Top (MD) | WOC (hrs) |
|----------------|----------------------|-----------------|-----------------|------------------------------|---------------------------|-----------------|-----------|
| Conductor      |                      |                 |                 |                              |                           |                 |           |
| Surface        |                      |                 |                 |                              |                           |                 |           |
| Coal           |                      |                 |                 |                              |                           |                 |           |
| Intermediate 1 |                      |                 |                 |                              |                           |                 |           |
| Intermediate 2 |                      |                 |                 |                              |                           |                 |           |
| Intermediate 3 |                      |                 |                 |                              |                           |                 |           |
| Production     |                      |                 |                 |                              |                           |                 |           |
| Tubing         |                      |                 |                 |                              |                           |                 |           |

Drillers TD (ft) ~1110

Loggers TD (ft) \_\_\_\_\_

Deepest formation penetrated \_\_\_\_\_

Plug back to (ft) \_\_\_\_\_

Plug back procedure \_\_\_\_\_

Kick off depth (ft) \_\_\_\_\_

Check all wireline logs run

- caliper     density     deviated/directional     induction  
 neutron     resistivity     gamma ray     temperature     sonic

Well cored  Yes  No

Conventional    Sidewall

Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

WAS WELL COMPLETED AS SHOT HOLE  Yes  No

DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No

DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No

TYPE OF TRACER(S) USED \_\_\_\_\_

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SDW  
1/15/2020

API 47- 049 - 01559 Farm name McDowell William E & Alice K Well number 3D3

### PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|-----------|------------------|------------------------|----------------------|------------------------|--------------|
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|           |                  |                        |                      |                        |              |

Please insert additional pages as applicable.

### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

| Stage No. | Stimulations Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Amount of Proppant (lbs) | Amount of Water (bbls) | Amount of Nitrogen/other (units) |
|-----------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
|           |                   |                     |                              |                              |            |                          |                        |                                  |
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Please insert additional pages as applicable.

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API 47- 049 - 01559 Farm name McDowell William E & Alice K Well number 3D3

| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u> |
|-------------------------------|---------------|
|                               | TVD MD        |
| Pittsburgh Coal Seam          |               |
|                               |               |
|                               |               |
|                               |               |

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd  
GAS MEASURED BY  Estimated  Orifice  Pilot

| LITHOLOGY/<br>FORMATION | TOP<br>DEPTH IN FT<br>NAME TVD | BOTTOM<br>DEPTH IN FT<br>TVD | TOP<br>DEPTH IN FT<br>MD | BOTTOM<br>DEPTH IN FT<br>MD | DESCRIBE ROCK TYPE AND RECORD QUANTITY AND<br>TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC) |
|-------------------------|--------------------------------|------------------------------|--------------------------|-----------------------------|--|
| Pittsburgh Coal         | 0                              |                              | 0                        |                             |  |
|                         |                                |                              |                          |                             |  |
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Please insert additional pages as applicable.

Drilling Contractor \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Stimulating Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please insert additional pages as applicable.

Completed by Patrick Taylor Telephone 724-485-4150  
Signature [Signature] Title Sr. Engineer Date 12/11/2019

WW-4A  
Revised 6-07

1) Date: 1/15/20  
2) Operator's Well Number  
3D3  
3) API Well No.: 47 - 049 - 01559

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

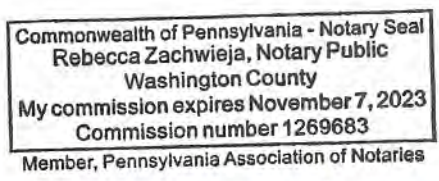
|  |  |
|--|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>William E. &amp; Alice K. McDowell</u><br/>Address <u>23146 Marble Way</u><br/><u>California, MD 20619</u></p> <p>(b) Name _____<br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> <p>6) Inspector <u>Sam Ward</u><br/>Address <u>P.O. Box 2327</u><br/><u>Buckhannon, WV 26201</u><br/>Telephone <u>304-3987583</u></p> | <p>5) (a) Coal Operator</p> <p>Name <u>Consolidated Coal Company</u><br/>Address <u>46226 National Road</u><br/><u>Saint Clairsville, OH 43950</u></p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>William E. &amp; Alice K. McDowell</u><br/>Address <u>23146 Marble Way</u><br/><u>California, MD 20619</u></p> <p>Name <u>Consolidated Coal Company</u><br/>Address <u>46226 National Road</u><br/><u>Saint Clairsville, OH 43950</u></p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>Consolidated Coal Company</u><br/>Address <u>46226 National Road</u><br/><u>Saint Clairsville, OH 43950</u></p> |
|--|--|

**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 CNX Gas Company LLC  
 By: Raymond Hoon  
 Its: Senior Project Manager  
 Address 1000 Consol Energy Dr  
Canonsburg, PA 15317  
 Telephone 724-485-4000

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FEB 13 2020  
WV Department of Environmental Protection

*Commonwealth of Pennsylvania, county of Washington*  
Subscribed and sworn before me this 12<sup>th</sup> day of February, 2020  
Rebecca Zachwieja Notary Public  
My Commission Expires November 7, 2023

**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).

47-049-01559P

WW-9  
(5/16)

API Number 47 - 049 - 01559  
Operator's Well No. 3D3

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company, LLC OP Code 494458046

Watershed (HUC 10) Campbells Run Quadrangle          Hundred         

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: NA

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? NA

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number         )
- Reuse (at API Number         )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Waste Management or Ryan Environmental will use Vacuum trucks and properly dispose of any fluid or waste return)

Will closed loop system be used? If so, describe: no

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. na

-If oil based, what type? Synthetic, petroleum, etc.         

Additives to be used in drilling medium? na

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. na

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) na

-Landfill or offsite name/permit number? na

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 Raymond Hoon  
Company Official (Typed Name) Raymond Hoon  
Company Official Title Senior Project Manager

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FEB 13 2020  
WV Department of  
Environmental Protection

Commonwealth of Pennsylvania, county of Washington  
Subscribed and sworn before me this 12th day of February, 2020

Rebecca Zachwieja Notary Public

My commission expires November 7, 2023

Commonwealth of Pennsylvania - Notary Seal  
Rebecca Zachwieja, Notary Public  
Washington County  
My commission expires November 7, 2023  
Commission number 1269683  
Member, Pennsylvania Association of Notaries

Proposed Revegetation Treatment: Acres Disturbed 4.2 acres Prevegetation pH \_\_\_\_\_

Lime 2-3 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

| Temporary      |          | Permanent      |          |
|----------------|----------|----------------|----------|
| Seed Type      | lbs/acre | Seed Type      | lbs/acre |
| Tall Fescue    | 40       | Tall Fescue    | 40       |
| Landino Clover | 5        | Landino Clover | 5        |
|                |          |                |          |

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: COG Inspector Date: 1/15/2020

Field Reviewed? ( ) Yes (  ) No

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WV Department of  
Environmental Protection

# 2D3 / 3D3 WELL PLUGGING

## MANNINGTON DISTRICT, MARION COUNTY, WEST VIRGINIA

### PREPARED FOR:

# CNX GAS COMPANY, LLC

WELL LOCATION:  
2D3: LAT 39.6324  
LONG -80.37929  
3D3: LAT 39.62892  
LONG -80.37919

ACCESS ROAD LOCATION:  
LAT 39.623810  
LONG -80.383278



- SYMBOLS:
1. 200 FT. WIDE, UNPAVED ROAD
  2. 40 FT. WIDE, PAVED ROAD
  3. 10 FT. WIDE, PAVED ROAD
  4. 5 FT. WIDE, PAVED ROAD
  5. 2 FT. WIDE, PAVED ROAD

SCALE: 1/4" = 100'

KEYSTONE CONSULTANTS, LLC

OCTOBER 2019

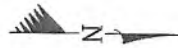
| Sheet Number | Sheet Title                                    |
|--------------|--|
| 000          | COVER SHEET                                    |
| 001          | GENERAL NOTES                                  |
| 002          | PROPOSED ACCESS ROAD LOCATIONS                 |
| 003          | PROPOSED AND EXISTING UTILITY LOCATIONS        |
| 004          | PROPOSED AND EXISTING EROSION CONTROL MEASURES |
| 005          | PROPOSED AND EXISTING FENCE LOCATIONS          |
| 006          | PROPOSED AND EXISTING SIGNAGE LOCATIONS        |
| 007          | PROPOSED AND EXISTING TRAIL LOCATIONS          |
| 008          | PROPOSED AND EXISTING WELLS                    |
| 009          | PROPOSED AND EXISTING PLUGGING LOCATIONS       |
| 010          | PROPOSED AND EXISTING PLUGGING MATERIALS       |
| 011          | PROPOSED AND EXISTING PLUGGING EQUIPMENT       |
| 012          | PROPOSED AND EXISTING PLUGGING OPERATIONS      |
| 013          | PROPOSED AND EXISTING PLUGGING SAFETY          |
| 014          | PROPOSED AND EXISTING PLUGGING RECORDS         |
| 015          | PROPOSED AND EXISTING PLUGGING TRAINING        |
| 016          | PROPOSED AND EXISTING PLUGGING INSPECTION      |
| 017          | PROPOSED AND EXISTING PLUGGING REPORTS         |
| 018          | PROPOSED AND EXISTING PLUGGING PERMITS         |
| 019          | PROPOSED AND EXISTING PLUGGING COMPLIANCE      |
| 020          | PROPOSED AND EXISTING PLUGGING CLOSURE         |
| 021          | PROPOSED AND EXISTING PLUGGING REPAIRS         |
| 022          | PROPOSED AND EXISTING PLUGGING MAINTENANCE     |
| 023          | PROPOSED AND EXISTING PLUGGING MONITORING      |
| 024          | PROPOSED AND EXISTING PLUGGING RECORDS         |
| 025          | PROPOSED AND EXISTING PLUGGING TRAINING        |
| 026          | PROPOSED AND EXISTING PLUGGING INSPECTION      |
| 027          | PROPOSED AND EXISTING PLUGGING REPORTS         |
| 028          | PROPOSED AND EXISTING PLUGGING PERMITS         |
| 029          | PROPOSED AND EXISTING PLUGGING COMPLIANCE      |
| 030          | PROPOSED AND EXISTING PLUGGING CLOSURE         |
| 031          | PROPOSED AND EXISTING PLUGGING REPAIRS         |
| 032          | PROPOSED AND EXISTING PLUGGING MAINTENANCE     |
| 033          | PROPOSED AND EXISTING PLUGGING MONITORING      |
| 034          | PROPOSED AND EXISTING PLUGGING RECORDS         |
| 035          | PROPOSED AND EXISTING PLUGGING TRAINING        |
| 036          | PROPOSED AND EXISTING PLUGGING INSPECTION      |
| 037          | PROPOSED AND EXISTING PLUGGING REPORTS         |
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| 039          | PROPOSED AND EXISTING PLUGGING COMPLIANCE      |
| 040          | PROPOSED AND EXISTING PLUGGING CLOSURE         |
| 041          | PROPOSED AND EXISTING PLUGGING REPAIRS         |
| 042          | PROPOSED AND EXISTING PLUGGING MAINTENANCE     |
| 043          | PROPOSED AND EXISTING PLUGGING MONITORING      |
| 044          | PROPOSED AND EXISTING PLUGGING RECORDS         |
| 045          | PROPOSED AND EXISTING PLUGGING TRAINING        |
| 046          | PROPOSED AND EXISTING PLUGGING INSPECTION      |
| 047          | PROPOSED AND EXISTING PLUGGING REPORTS         |
| 048          | PROPOSED AND EXISTING PLUGGING PERMITS         |
| 049          | PROPOSED AND EXISTING PLUGGING COMPLIANCE      |
| 050          | PROPOSED AND EXISTING PLUGGING CLOSURE         |

SDW  
1/15/2020

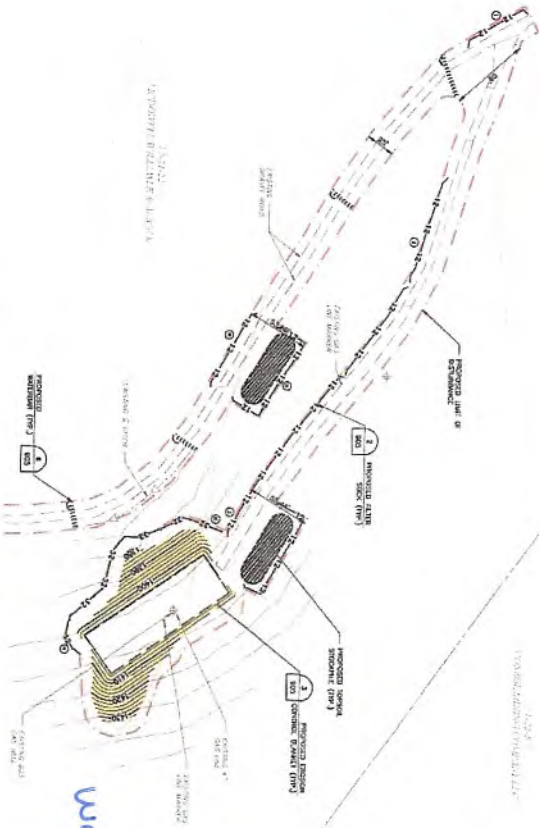
| <p>PROJECT: 2D3 / 3D3 WELL PLUGGING<br/>MANNINGTON DISTRICT, MARION COUNTY, WEST VIRGINIA</p> | <p>DATE: 10/15/2019</p> | <p>KEYSTONE CONSULTANTS, LLC<br/>32 EAST MAIN STREET<br/>CANONSBURG, PA 15308<br/>PH: 412-376-2100 FAX: 412-270-2100<br/>www.keystoneconsultants.net</p> | <p>CNX<br/>CNX RESOURCES CORPORATION, LLC<br/>1000 CONSOL ENERGY DRIVE<br/>CANONSBURG, PA 15317</p> | <p>REVISIONS</p> <table border="1"> <tr><th>NO.</th><th>DESCRIPTION</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | NO. | DESCRIPTION |  |  |  |  |  |  | <p>DRAWING NUMBER: 000<br/>SHEET 01 OF 16</p> |
|---|-------------------------|--|---|--|-----|-------------|--|--|--|--|--|--|---|
| NO.   | DESCRIPTION             |  |   |  |     |             |  |  |  |  |  |  |   |
|   |                         |  |   |  |     |             |  |  |  |  |  |  |   |
|   |                         |  |   |  |     |             |  |  |  |  |  |  |   |
|   |                         |  |   |  |     |             |  |  |  |  |  |  |   |







MANCHLINE  
PLAN  
SCALE 1" = 20'  
SEE SHEET 903



Well 203

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Environmental Protection

CONCRETE FILLER BLOCK SIZING TABLE

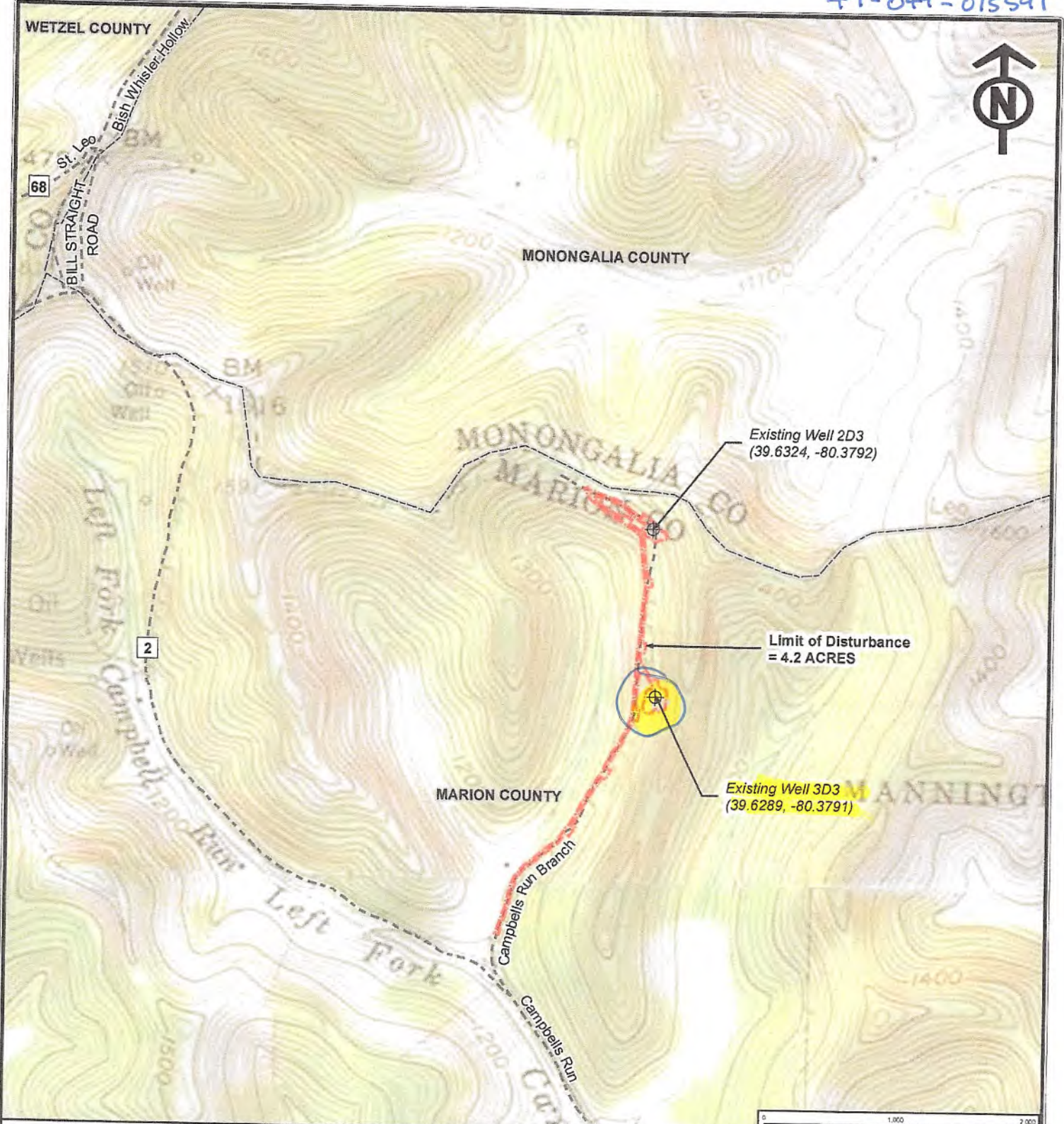
| LABEL | SIZE | DEPTH |
|-------|------|-------|
| ①     | 12"  | 4"    |
| ②     | 12"  | 6"    |
| ③     | 12"  | 8"    |
| ④     | 12"  | 10"   |
| ⑤     | 12"  | 12"   |

NOTES:  
• CONCRETE TO USE CONTING ACCESS ROAD AND NEARBY AS NECESSARY.  
• CONCRETE TO BE PLACED ACCORDING TO ACCESS ROAD AS NECESSARY.  
• SEE SHEET 903 FOR ACCESS ROAD.

- LEGEND
- EXISTING PROPERTY LINE
  - EXISTING ROAD CENTERLINE
  - EXISTING INTERSECTION CORNER
  - EXISTING UTILITY MARKING
  - EXISTING DRAINAGE
  - EXISTING MAINTENANCE AND SERVICE ALLEYS/ROADS
  - EXISTING ROAD CENTERLINE
  - EXISTING PROPERTY LINE
  - EXISTING CONCRETE UTILITY LINE
  - EXISTING MAINT. ROAD, LIGHT RAIL, OR HIGHWAY
  - EXISTING 50% LINE
  - EXISTING 100% LINE
  - EXISTING 10% LINE
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| <p>203 / 303 WELL PLUGGING<br/>MUNICIPALITY DISTRICT, MARION COUNTY, WEST VIRGINIA</p> <p><b>EROSION AND SEDIMENTATION CONTROL PLAN</b></p> |             | <p>DATE: 1/15/2020</p> <p>DRAWING NUMBER: 904</p> <p>SCALE: 1" = 20'</p> | <p><b>KEYSTONE CONSULTANTS, LLC</b><br/>1000 MARKET STREET, SUITE 100<br/>GASTONVILLE, PA 15056<br/>PH: 724-778-7200 FAX: 724-778-7208<br/>www.keystoneconsultants.com</p> | <p><b>CNX</b><br/>CNX RESOURCES CORPORATION, LLC<br/>100 CONCOL ENERGY DRIVE<br/>CANONSBURG, PA 15317</p> | <p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> | NO. | DESCRIPTION |  |  |  |  |  |  |  |  |  |  |
|---|-------------|--|--|---|--|-----|-------------|--|--|--|--|--|--|--|--|--|--|
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| <p style="writing-mode: vertical-rl; transform: rotate(180deg);">WV Department of Environmental Protection</p> <p style="text-align: center;">RECEIVED<br/>Office of Oil and Gas<br/>FEB 13 2020</p> | <b>LEGEND</b>   | <p>⊕ Existing Well</p> <p>--- Limit of Disturbance</p> <p>--- Road</p> <p>□ County Boundary</p> | <p>Prepared By: <b>KEYSTONE</b><br/>www.keystoneconsultants.net 412-278-2100</p> |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|---|---|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">REV</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 35%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | REV   | DESCRIPTION  | DATE |  |  |  |  |  |  |  |  |  |  |  |  | <p><b>2D3/3D3 Well Plugging<br/>Site Location Topographic Map</b></p> <p>Marion County, WV</p> |  |
|  | REV   | DESCRIPTION   | DATE   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| <p>DWN BY: AMW    APR BY: STK    DATE: 11/13/2019</p>  | <p>DRAWING NUMBER: 001</p>  |   | <p>SCALE: 1" = 1,000 feet    SHEET: 1 OF 2</p>                                   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p><small>BASEMAP: USGS TOPOGRAPHIC QUADRANGLE HUNDRED, WADESTOWN, GLOVER GAP, MANNING, WV<br/>Roads: West Virginia Department of Transportation (WVDOT) https://transportation.wv.gov</small></p>   |   |   |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 4704901559 WELL NO.: 3D3

FARM NAME: \_\_\_\_\_

RESPONSIBLE PARTY NAME: CNX Gas Company

COUNTY: Marion DISTRICT: Mannington

QUADRANGLE: Hundred

SURFACE OWNER: McDowell William E & Alice K

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

UTM GPS NORTHING: 4386754.53

UTM GPS EASTING: 553284.04 GPS ELEVATION: 416.79 m / 1367.42 ft

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 X: Post Processed Differential X

Real-Time Differential \_\_\_\_

- 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

Project Manager  
Title

2-12-2020  
Date

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WV Department of  
Environmental Protection