November 10, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1703736, issued to CNX GAS COMPANY LLC, 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: BOOHER 1
Farm Name: BROWN, WILLIS & WILMA
API Well Number: 47-1703736
Permit Type: Plugging
Date Issued: 11/10/2015

Promoting a healthy environment.
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 X or Underground storage ") Deep / Shallow X

5) Location:
   Elevation 972
   District Grant
   Watershed Little Flint Run
   County Doddridge
   Quadrangle West Union

6) Well Operator: CNX Gas Company LLC
   Address: 1000 CONSOL Energy Drive
             Canonsburg, PA 15317

7) Designated Agent: Anthony Kendziora
   Address: One Dominion Drive
             Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified:
   Name: Bryan Harris
   Address: P.O. Box 157
             Volga, WV 157

9) Plugging Contractor: Name See Attached
   Address: 

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

See Attached

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

Work order approved by inspector Bryan Harris Date 1/9/15
Plugging Work Order for Permit 47-017-03736

CNX Gas - Well 10226

1. Verify 2" tubing TD (Est.~4969'). Set on packer @ 4556'
2. Load annulus of 2-3/8" tubg through 4-1/2" casing from packer to surface w/ water.
3. Pump bottom cement plug through tubing from 5072' to 4556' (excess 25%+).
4. Displace cement w/ 2" wiper plug to 4556'. Verify wiper plug depth with slick line.
5. Wait on cement.
6. Release tension on tubing.
7. TIH w/ wireline tubing cutter. Cut 2-3/8 10rd tubing @ ~4556' above top of packer.
8. Pull up 2'. Pump 100' cement plug from 4556' to 4456'.
10. Bond log 4-1/2" casing.
11. Cut 4-1/2 above T.O.C. (est. ~4400') pull up 300'. Place in slips.
12. 4-1/2" casing is bad from 3541' to 3650'. Do not pump through casing.
13. TIH with 2-3/8" EUE work string to casing cut @ ~4400'.
14. Circulate 6% gel to 500'
15. Pump 100' cement plug across casing cut @~4400'. Displace with 6% gel.
16. TOH with 2-3/8" EUE work string.
17. TOH with 4-1/2 casing.
18. TIH with 2-3/8 EUE work string to 2101'.
19. Pump 100' cement plug 2101' to 2001'. Displace w/ 6% gel (gas show @ 2051')
20. Pull 2-3/8" work string up to 1350'.
21. Pump cement plug 1350' to 922' (water show @ 1300', 8-5/8, & elevation @ 972')
22. Pull 2-3/8" EUE work string up to 200'.
23. Pump cement plug from 200' to surface.
24. TOH with 2-3/8" EUE, and top off cement to surface.
25. Install 6" x 14' monument (10' below grade, 4' above grade) API 47-017-03736

Work Order approved by Inspector: [Signature]
Date: 11-9-15

Note: All cement will be Class A. All spacers between plugs will be 6% gel.
State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

DEPARTMENT OF ENERGY

Form Name: BROWN, WILLIS & WILMA  
Operator Well No.: BOOMER 01

LOCATION:  
Elevation: 972.00  
Quadrange: WEST UNION

District: GRANT  
County: DODDRIDGE

Latitude: 39 Deg. 28 Min. 30 Sec.  
Longitude: 80 Deg. 45 Min. 0 Sec.

Company: CHESTERFIELD ENERGY CORP.  
203 WEST MAIN STREET  
CLARKSBURG, WV 26301-0000

Agent: SAMUEL J. CANN

Inspector: HIRE UNDERWOOD

Perm Issued: 07/11/1989  
Wells Work Commenced: 7/28/1989  
Wells Work Completed: 7/28/1989

Verbal Plugging
Permission granted on:  
Rotary X Cable
Total Depth (feet): 5280'
Fresh Water Depths (feet): 106'
Salt Water Depths (feet): 0'

To coal being mined in area (Y/N): No
Coal Depths (feet): None

Casing  
Size

Used in Tubing  
Drilling  
Left  
Column Fill Up

11 3/4' 36'  
pulled

8 5/8' 1153' 277 sins

4 1/2' 5072' 138 sins

OPEN FLOW DATA

Producing formation: Bennet  
Pay zone depth (ft): 4882-4986

Gas: Initial open flow 560 MF/d  
Final open flow 120 MF/d  
Final open flow 0 bbl/d  
Static rock Pressure 1260 psig (surface pressure) after 24 Hours

Second producing formation  
Pay zone depth (ft):  
Gas: Initial open flow 560 MF/d  
Final open flow 120 MF/d  
Final open flow 0 bbl/d  
Static rock Pressure 1260 psig (surface pressure) after 24 hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC, DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLSORE.

For: CHESTERFIELD ENERGY CORP.

By: SAMUEL J. CANN  
Date: August 29, 1989

11/13/2015
**Frac Info**

Benson (4982'-4986') 15 Holes

8,000' 80/100; 45,000' 20/40

650 BBLS Water

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**Drilling Info**

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1st stream water @ 106' / Hole Deep

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**RECEIVED**

AUG 30 1999

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: BROWN, WILLIS & WILMA  
Operator Well No.: BOOHER #1

LOCATION:  
Elevation: 972.00  
Quadrangle: WEST UNION  
District: GRANT  
County: DODDRIDGE  
Latitude: 39° 22' 30" S  
Longitude: 80° 45' 0" W

Company: CHESTERFIELD ENERGY CORP.  
203 WEST MAIN STREET  
CLARKSBURG, WV 26301-0000

Agent: SAMUEL J. CANN

Inspector: MIKE UNDERWOOD

Permit Issued: 07/11/89

Well work Commenced: 7/24/89

Well work Completed: 7/30/89

Verbal Plugging:  
Permission granted on: __________

Rotary X Cable Rlg

Total Depth (feet) 5264'  
Fresh water depths (ft) 106'

Salt water depths (ft) 0'

Is coal being mined in area (Y/N)? No

Coal Depths (ft): None

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OPEN FLOW DATA

Producing formation: Benson  
Pay zone depth (ft) 4982' - 4986'

Gas: Initial open flow show MCF/d  
Oil: Initial open flow 0 Bbl/d  
Final open flow 120 MCF/d  
Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 24 Hours

Static rock Pressure 1260 psig (surface pressure) after 24 Hours

Second producing formation: Pay zone depth (ft)

Gas: Initial open flow  
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 WELBORE.

Samuel J. Cann  
For: CHESTERFIELD ENERGY CORP.

By:  
Date: August 29, 1989
ONE-STOP SERVICE
FOR
APPALACHIAN AREA
OIL & GAS INDUSTRY

OIL FIELD SUPPLIES — Complete line of expendables, tools, etc., for both Rotary and Cable Tool drilling — also, all equipment for hook-up, pumping, treating, storage, and transmission.

TUBULAR GOODS — New and used casing, tubing, line pipe and drill pipe. Represent more tubulars mill than any other Oil and Gas Supplier. Also carry plastic, aluminum, and stainless steel pipe.

DRILLING EQUIPMENT — Most experienced source in the East on drilling machinery for both Cable Tool and Rotary Operation! Contact us for new or used drilling equipment.

MUD AND CHEMICALS — Largest and most complete stocks in the East. Foaming agents, Paraffin solvents. Major stocking points at Nitro and Buckhannon, West Virginia.

RENTAL FISHING TOOLS — Complete stock of Cable fishing tools. Overshots, Jars, Magnets, Mills and other Rotary tools available 24 hours per day.

BLOWOUT PREVENTERS and Rotary heads for air drilling available for sale. We service Air Heads and Preventers.

SHOP SERVICES — Licensed API Oil Country Service Shops at Nitro, West Virginia. Tool joint turning subs and special tools, repair work, forging, machining and welding.

M.Junkin CORPORATION
HOME OFFICES
CHARLESTON, WEST VIRGINIA

835 Hillcrest Drive
Ph. (304) 348-5211 • Charleston, W.Va. 25311

SHOPS — WAREHOUSES — PIPEYARDS
Ph. (304) 755-5371 • Nitro, W. Va. 25143

WELL RECORD BOOK
ROTARY AND CABLE TOOL DRILLING

WELL NO.          Serial No.          Farm No.
ON
COUNTY
STATE
OWNED BY

M.Junkin CORPORATION

BRANCH STORES
JAMESTOWN, New York
LAKELAND, Florida
LINCOLN, New Jersey
LOS ANGELES, California
LOUISVILLE, Kentucky
MARIESA, Ohio
MOBILE, Alabama
NEW IBERIA, Louisiana
NITRO, West Virginia
NORTH CHARLESTON, South Carolina
ONEIDA, Tennessee
PHILADELPHIA, Pennsylvania
PITTSBURGH, Pennsylvania
PRINCETON, West Virginia
RICHMOND, Virginia
ST. LOUIS, Missouri
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TD 5264
BOOHER
10226

TOTAL DEPTH  5070
BOTTOM PERFS  4983-4988
CEMENT TOP  4430
PACKER SET @  4556
SEATING COLLAR @  4950.3
total tubing + mud anc  4969.8 2 in 10 rd

PACKER TYPE  Baker PAD 1
30,000 shear
set @ 10,000 tension

Severe casing problems @ 3500 to 3800

Ran Casing Swedge in Casing from 3541 to 3650
possible out of Casing problems
Got tight Spot Out and Tubing and packer in well

[Signature] 3/4/01
Attachment – Form WW-48:

Potential Plugging Contractors:

Waco Oil & Gas
P.O. Box 397
Glennville, WV 26351

Viking Well Service
8113 Sissonville Drive
Sissonville, WV 25320

Stalnaker Energy
220 West Main Street
Glennville, WV 26351

Contractor Services Inc.
929 Charleston Road
Spencer, WV 25276
1) Date: November 4, 2015  
2) Operator’s Well Number: 10226 (Booser 1)  
3) API Well No.: 47 - 017 - 03735  

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: Argo Resources  
      Address: 1615 Wynkoop Street  
               Denver, CO 80202  
   (b) Name:  
      Address:  
   (c) Name:  
      Address:  

5) (a) Coal Operator  
   Name: None of Declaration  
   Address:  
   (b) Coal Owner(s) with Declaration  
      Name: None of Declaration  
      Address:  
   (c) Coal Lessee with Declaration  
      Name: None of Declaration  
      Address:  

6) Inspector  
   Bryan Harris (copy provided in person)  
   Address: P.O. Box 157  
             Volga, WV 157  
   Telephone: 304-553-6087  

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 site 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. 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 date of mailing or delivery to the Chief.  

Well Operator: CNX Gas Company LLC  
By: Matthew Hanley  
Its: Manager - Gas Permitting  
Address: 1000 CONSOL Energy Drive  
         Canonsburg, PA 15317  
Telephone: 724-485-3011  

Subscribed and sworn before me this ___ day of ___, 2013  
My Commission Expires ___/___/___  

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.
SURFACE OWNER WAIVER

Operator's Well Number 10226 (Booher 1)

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-6450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:
1) The proposed well work will constitute a hazard to the safety of persons.
2) The soil erosion and sediment control plan is not adequate or effective;
3) Damage would occur to publicly owned lands or resources;
4) The proposed well work fails to protect fresh water sources or supplies;
5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON, ETC.

______________________________
Signature

______________________________
Date

______________________________
Name

______________________________
By

______________________________
Its

______________________________
Director of Land & Mineral

______________________________
Date

Signature

______________________________
Date
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) Little Flint Run  
Quadrangle West Union  

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:  N/A  
Will a synthetic liner be used in the pit?  Yes □  No □  If so, what ml.?  

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 N/A - No pit will be used  

Will closed loop system be used?  If so, describe:  

Drilling medium anticipated for this well (vertical and horizontal)?  Air, freshwater, oil based, etc.  
-If oil based, what type?  Synthetic, petroleum, etc.  

Additives to be used in drilling medium?  

Drill cuttings disposal method?  Leave in pit, landfill, removed offsite, etc.  
-If left in pit and plan to solidify what medium will be used?  (cement, lime, sawdust)  
-Landfill or offsite name/permit number?  

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 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  
Company Official (Typed Name) Matthew Halley  
Company Official Title Manager - Gas Permitting  

Subscribed and sworn before me this □□th day of  , 2015  
My commission expires  □□□□.□□/□□/□□  
Notary Public  

11/13/2015
Form WW-9

CNX Gas Company LLC

Proposed Revegetation Treatment: Acres Disturbed 1.5
Prevegetation pH 6.5
Lime according to pH test Tons/acre or to correct to pH 7.0
Fertilizer type 10-20-20 or Equivalent
Fertilizer amount 500 lbs/acre
Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

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<tr>
<td>Birdsfoot Trefoil</td>
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<tr>
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<tr>
<td>Ladino Clover</td>
<td>Ladino Clover</td>
</tr>
<tr>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]
Comments:

Title: Inspector
Date: 11/9/15
Field Reviewed? ( ) Yes  ( ) No
West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-017-03736 WELL NO.: 10226 (Booher 1)
FARM NAME: Antero Resources
RESPONSIBLE PARTY NAME: CNX Gas Company LLC
COUNTY: Doddridge DISTRICT: Grant
QUADRANGLE: West Union
SURFACE OWNER: Antero Resources
ROYALTY OWNER: James Booher
UTM GPS NORTING: 4356619.32058 (NAD83)
UTM GPS EASTING: 520927.130242 (NAD83) GPS ELEVATION: 297.262m (NAD83)

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:

2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
   Survey grade GPS ___ : Post Processed Differential ___
   Real-Time Differential ___
   Mapping Grade GPS X : Post Processed Differential ___
   Real-Time Differential X ___

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: [Signature]
Title: Manager - Gas Permitting
Date: 11/6/2015