west virginia department of environmental protection

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

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 penalities 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.

WW-4B
Rev. 2/01

1) Date November 4, 2015
2) Operator's
Well No. 10226 (Booher 1)
3) API Well No. 47- 017 - 03756

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' Watershed Little Flint Run
District Grant 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 O'Harris Date 11-9-15

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" tbg 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'.
9. TOH with 2-3/8 10rd production tubing.
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: Bryan O'Hara Date: 11-9-15

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

WR-35

RECEIVED
AUG 30 1989
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

11-Jul-89
API # 47- 17-03736

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 01

LOCATION: Elevation: 972.00 Quadrangle: WEST UNION

District: GRANT County: DODDRIDGE
Latitude: 5850 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 2090 Feet West of 80 Deg. 45 Min. 0 Sec.

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 Rig
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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
11 3/4	36'		pulled
8 5/8		1153'	272 sks
4 1/2		5072'	130 sks

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

Samuel J. Cann
For: CHESTERFIELD ENERGY CORP.
By: Samuel J. Cann
Date: August 29, 1989

0000 3756

017-3736

Frac Info

Benson (4982'-4986') 15 Holes

8,000# 80/100; 45,000# 20/40
650 BBLS Water

Drilling Info

Shale	0	206	1" stream water @ 106'
Sand & Shale	206	1185	Hole Damp
Shale	1185	1900	
Big Lime	1900	1964	
Injun	1964	2108	
Sand & Shale	2108	2258	
Weir	2258	2334	
Shale	2334	2450	
Berea	2450	2470	
Shale	2470	2670	
Gordon	2670	2710	
Sand & Shale	2710	3105	
Shale	3105	4520	
Riley	4520	4580	
Shale	4580	4982	
Benson	4982	4990	
Shale	4990	5134	
Loggers TD	5134		

RECEIVED
AUG 30 1989
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

L616

WR-35

11-Jul-89
API # 47- 17-03736

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: 5850 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 2090 Feet West of 80 Deg. 45 Min. 0 Sec.

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 _____ Rig
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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
11 3/4	36'		pulled
8 5/8		1153'	272 sks
4 1/2		5072'	130 sks

OPEN FLOW DATA

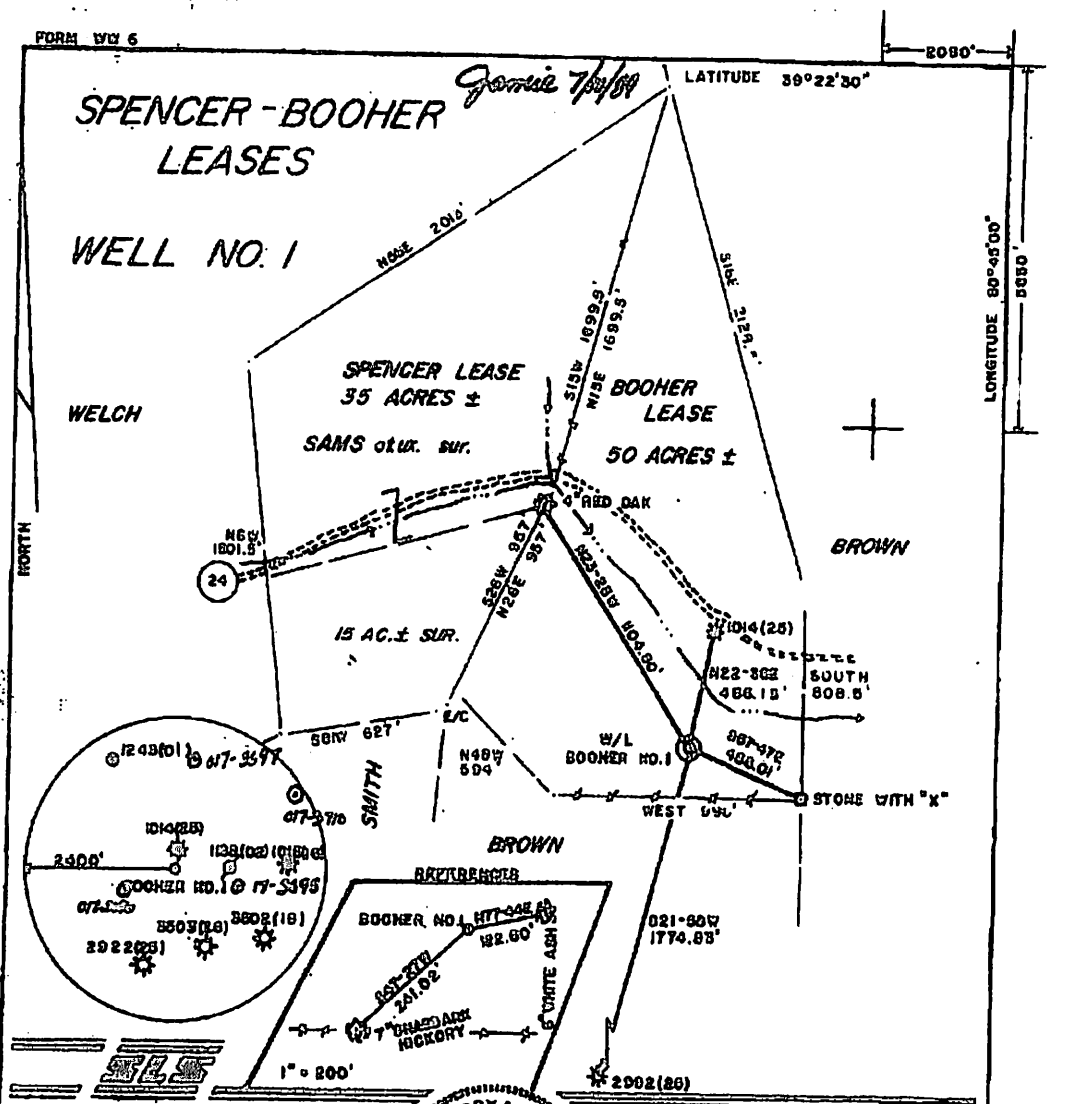
Producing formation Benson Pay zone depth (ft) 4982'-4986'
Gas: Initial open flow show MCF/d Oil: Initial open flow -0- Bbl/d
Final open flow 120 MCF/d Final open flow -0- Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1260 psig (surface pressure) after 24 Hours

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.

Samuel J. Cann
For: CHESTERFIELD ENERGY CORP.
By: Samuel J. Cann
Date: August 29, 1989

FORM WW 6



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.

L.L.S. 677 Gregory A. Smith

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA LAND SURVEYOR

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

DATE MARCH 20, 19 89

OPERATORS WELL NO. BOOHER NO. 1

API WELL NO. 47 - 017 - 3736
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1994 (27-37)

PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. = 1307' SCALE 1" = 500'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

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

LOCATION:
ELEVATION 972' WATERSHED LITTLE FLINT RUN
DISTRICT GRANT COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'
SURFACE OWNER WILLIS & WILMA BROWN ACREAGE 60
ROYALTY OWNER JAMES BOOHER LEASE ACREAGE 50
PROPOSED WORK: LEASE NO. ___
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION ALEXANDER
ESTIMATED DEPTH 5500'

COUNTY NAME

PERMIT

WELL OPERATOR CHESTERFIELD ENERGY CORP. DESIGNATED AGENT SAMUEL J. CANN
ADDRESS 203 WEST MAIN STREET CLARKSBURG, WV 26301 ADDRESS 203 WEST MAIN STREET CLARKSBURG, WV 26301

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, fording, machining and welding.

McJunkin
CORPORATION

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

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

10226

WELL RECORD BOOK

ROTARY AND CABLE TOOL DRILLING

WELL NO. _____
Serial No. Farm No.

ON _____ LEASE

COUNTY _____

STATE _____

OWNED BY

_____

McJunkin
CORPORATION

HOME OFFICES
CHARLESTON, WEST VIRGINIA

BRANCH STORES

AKRON, Ohio
ASHLAND, Kentucky
ATLANTA, Georgia
AUGUSTA, Georgia
BEAUMONT, Texas
BUCKHANNON, West Virginia
CALVERT CITY, Kentucky
CHARLOTTE, North Carolina
CHICAGO, Illinois
CINCINNATI, Ohio
COLUMBUS, Ohio
DECATUR, Alabama
DENVER, Colorado
GRAND JUNCTION, Colorado
HOUSTON, Texas
INDIANA, Pennsylvania
JACKSONVILLE, Florida
JAMESTOWN, New York
LAKELAND, Florida
LINDEN, New Jersey
LOS ANGELES, California
LOUISVILLE, Kentucky
MARIETTA, Ohio
MOBILE, Alabama
NEW IBERIA, Louisiana
NITRO, West Virginia
NORTH CHARLESTON, South Carolina
ONEIDA, Tennessee
PHILADELPHIA, Pennsylvania
PIKEVILLE, Kentucky
PITTSBURGH, Pennsylvania
PRINCETON, West Virginia
RICHMOND, Virginia
ST. LOUIS, Missouri

Formation	Color	Hard or Soft	Top
		Soft	
SAND	GR	Hard	
	Gray		1185
			1787
	+SHALE		
weir		Hard	2250
Berea	SAND	Hard	2450
SH		Soft	2459
SAND		Hard	2470
SHALE		Med	2480
			2671
shale			2700
Riley			4542
Benson			4985
TD 5264			

Bottom	Oil, Gas or Water	Depth	Remarks
6			
1766		√Gas	1866 No show
1787		√Gas	2051 $\frac{10}{10}$ = 2 MO
		√Gas	2200 NO
	√Gas	2300	[illegible] SHOW
2468	√GAS	2400	NO SHOW
2459	√Gas	2635	NO SHOW
2470	√Gas	2761	No Show
2476	√GAS @	4465	NO SHOW
2671	√Gas	4586	NO SHOW
2700	√Gas	4824	NO SHOW

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

[illegible] 5/4/01

Attachment – Form WW-4B:

Potential Plugging Contractors:

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

Viking Well Service
8113 Sissonville Drive
Sissonville, WV 25320

Stalnaker Energy
220 West Main Street
Glenville, WV 26351

Contractor Services Inc.
929 Charleston Road
Spencer, WV 25276

WW-4A
Revised 6-07

1) Date: November 4, 2015
2) Operator's Well Number
10226 (Booher 1)

3) API Well No.: 47 - 017 - 03736

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Antero Resources
Address: 1615 Wynkoop Street
Denver, CO 80202

(b) Name
Address

(c) Name
Address

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

5) (a) Coal Operator
Name: None of Declaration
Address

(b) Coal Owner(s) with Declaration
Name: None of Declaration
Address

Name
Address

(c) Coal Lessee with Declaration
Name: None of Declaration
Address

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: Matthew Hanley
Its: Manager - Gas Permitting
Address: 1000 CONSOL Energy Drive
Canonsburg, PA 15317
Telephone: 724-485-3011

Subscribed and sworn before me this 9th day of November 2015
Sherri J Kuran
Notary Public
My Commission Expires 12-11-17

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
SHERRI J KURAN
Notary Public
FRANKLIN TWP., GREENE COUNTY
My Commission Expires Dec 11, 2017

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.

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) 926-0450

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.

_____ Date _____
Signature

FOR EXECUTION BY A CORPORATION,

Name Tim Rady
By Tim Rady
Its Director of Land Ops - Marcellus Date 11/9/15
Signature Date

WW-9
(2/15)

API Number 47 - 017 - 03736
Operator's Well No. 10226 (Booher 1)

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 [signature]

Company Official (Typed Name) Matthew Hanley

Company Official Title Manager - Gas Permitting

Subscribed and sworn before me this 6th day of November, 2015

[signature] Notary Public

My commission expires 12-11-17

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
SHERRI J KURAN
Notary Public
FRANKLIN TWP, GREENE COUNTY
My Commission Expires Dec 11, 2017

Form WW-9

Operator's Well No. 10226 (Booher 1)

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

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	25	Orchard Grass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

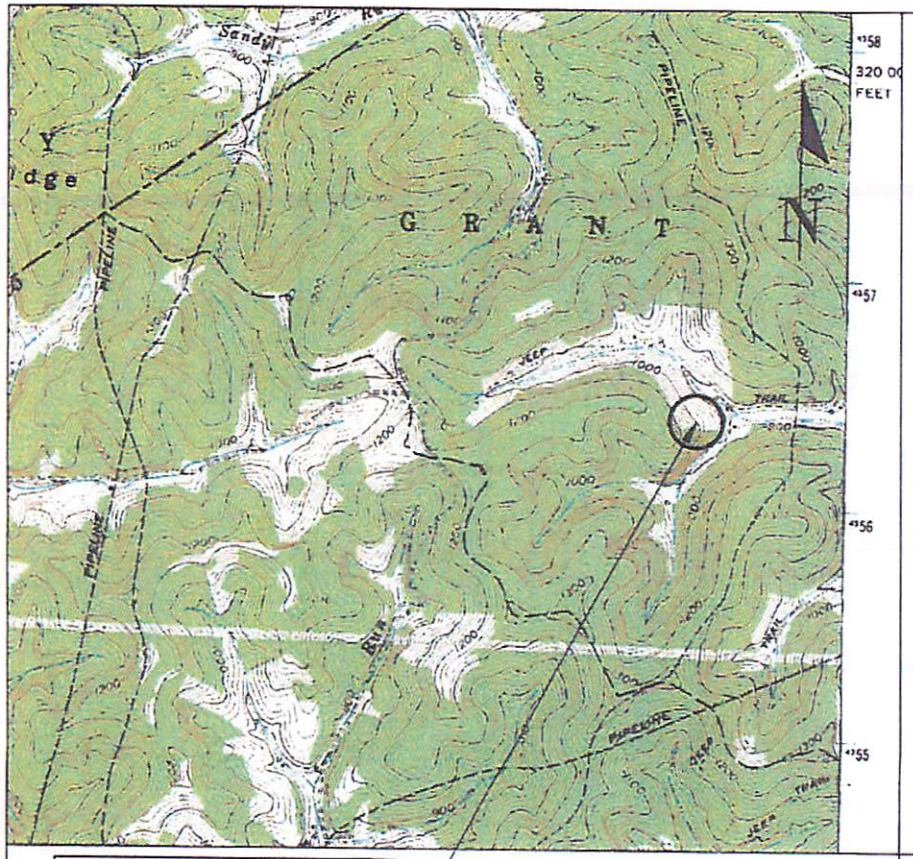
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bryan O'Hara

Comments:

Title: Inspector Date: 11-9-15

Field Reviewed? (_____) Yes (Y) No



Well # 10226
API# 47-017-03736
WGS84 LAT 39.358694
LON -80.757282

0 2000 4000 Feet

N W E S

WELL 10226
API# 47-017-03736

Well Location Map

Doddridge County, WV
West Union Quadrangle

CNX LAND
1000 Consol Energy Drive
Canonsburg, PA 15317-6506

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Rev. Date:	Checked by:
Rev. Date:	Approved by:
Comments:	

File Location:

WW-7
8-30-06

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 NORTHING: 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:

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 ____: 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 | Manager - Gas Permitting (Title) | 11/6/2015 (Date)