



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, July 30, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

CNX GAS COMPANY LLC
POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for MARTIN
47-017-01908-00-00

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: MARTIN
Farm Name: HOWARD R & JUDY D MCDONALD
U.S. WELL NUMBER: 47-017-01908-00-00
Vertical Plugging
Date Issued: 7/30/2019

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

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.

1) Date _____, 20 19
2) Operator's
Well No. Martin
3) API Well No. 47-017 - 01908

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 1019 Watershed Sycamore Fork
District McClellan County Doddridge Quadrangle Folsom

6) Well Operator CNX Gas Company, LLC 7) Designated Agent Christopher Turner
Address 1000 Consol Energy Drive Address P.O. Box 1248
Canonsburg, PA 15317 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified Name Daniel Flack
Address 58 Rive Ave
Buckhannon WV 26201
9) Plugging Contractor Name Contractors Services Incorporated of WV
Address 929 Charleston Road
Spencer, WV 25276

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

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

Work order approved by inspector  Date 5/22/19

Plugging Procedure for Permit 47-017-01908 (Martin)

1. Run in to verify TD (~2728')
2. TIH w/ work string to TD and gel hole
3. Pump cement plugs from TD to 2551' (2728'-2551')
4. TOOH w/ work string and WOC
5. Run in well and check TOC. Pump more cement if TOC is low.
6. Make attempt to pull 5 3/16" casing. If casing will not come out. Then RIH with wireline and perf casing 4 shots per 100' from 2551' to 1396'
7. TIH w/ work string and cement from 2551' to 1396' (No larger than 500' plugs)
8. TOOH w/ work string and WOC
9. Run in well and check TOC. Pump more cement if TOC is low.
10. Make attempt to pull 8 1/4" casing. If casing will not come out. Then RIH with wireline and perf casing 4 shots per 100' from 1396' to 210'
11. TIH w/ work string and cement from 1396' to 210' (No larger than 500' plugs)
12. TOOH w/ work string and WOC
13. Run in well and check TOC. Pump more cement if TOC is low.
14. Make attempt to pull 10" casing. If casing will not come out. Then RIH with wireline and perf casing 4 shots per 50' from 210' to 50'
15. TIH w/ work string and cement from 210' to surface
16. TOOH w/ work string and top off cement to surface. Make sure if 10" casing is still in well that 10"x conductor annulus is topped off w/ cement

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17. Install 6" x 14' monument (10' below grade, 4' above grade). Monument must contain (API#, Well Name, Company Name & Date Plugged)

NOTE: All cement will be Class A. All spacers between plugs will be 6% gel. Any casing unable to be recovered will be perforated every 100' w/ 4 shots and 100' cement plugs will be set to cover all cut points.

IF YOU ARE ABLE TO FULL CASING, CONTACT INSPECTOR TO GET APPROVAL FOR PLUGS YOU WOULD THEN WISH TO PLACE.

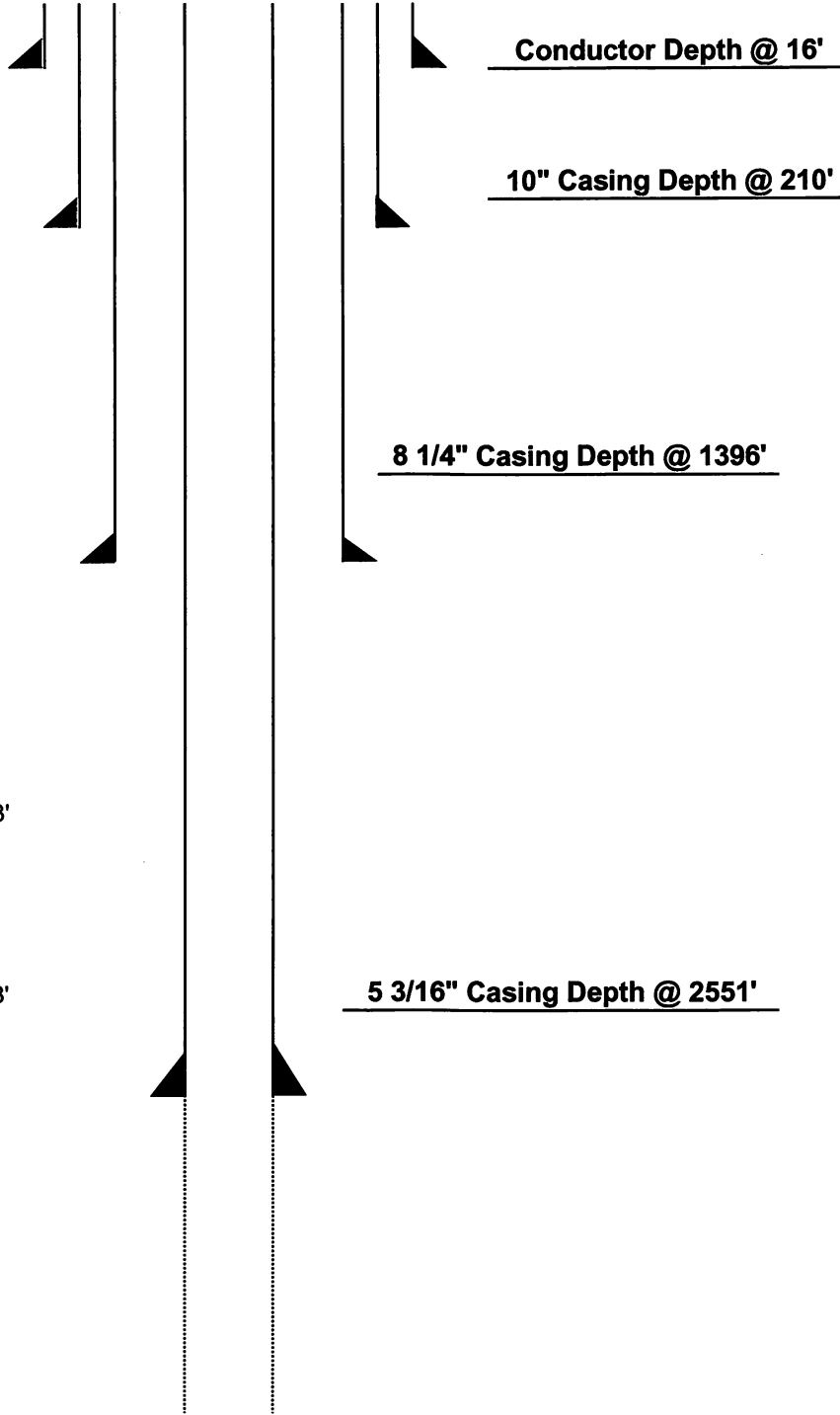
JMM

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Mary Martin
McClellan District, Doddridge Co.
Original Completion : 2/17/1905
API #47-017-01908
Elevation = 1209'



Pittsburgh Coal- 625'-633'
Gas Sand- 1235'-1275'
Big Injun-1930'-2018'
50' Sand- 2526'-2566'
30' Sand- 2636'-2656'
Stray Sand- 2676'-2686'
Gordon Sand- 2693'-2728'

TD @2728'

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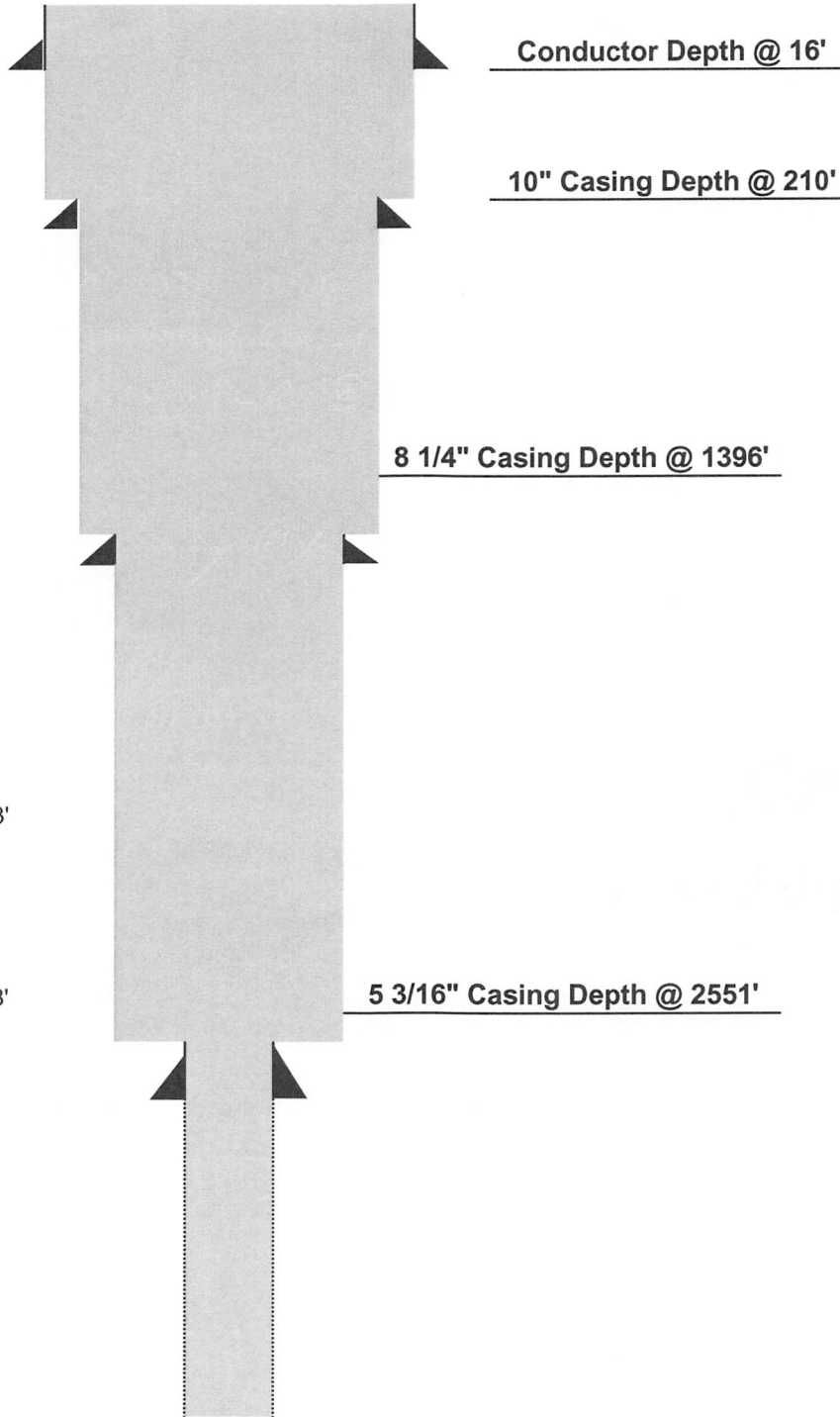
Mary Martin (Post-Plugging)

McClellan District, Doddridge Co.

Original Completion : 2/17/1905

API #47-017-01908

Elevation = 1209'



Pittsburgh Coal- 625'-633'
Gas Sand- 1235'-1275'
Big Injun-1930'-2018'
50' Sand- 2526'-2566'
30' Sand- 2636'-2656'
Stray Sand- 2676'-2686'
Gordon Sand- 2693'-2728'

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TD @2728'

WELL RECORD.

47-017-01908P

W.D.

Mary C. Martin 100 Acres
 McClellan Farm.
 District Doddridge County W. Va. State

Well No. 674
 Rig Commenced 12/8/04 190
 Rig Completed 12/16/04 190
 Drilling Commenced 1/6/05 190
 Drilling Completed 2/17/05 190

A.R. Davis Contractor.

Braden Drilling Co., Contractor.

ROCK FORMATION.	TOP.	BOTTOM.	REMARKS.
Conductor		16	
Pittsburg Coal	625	633	
Little Dunkard	965	1130	
Big Dunkard	1160	1180	
Gas sand	1235	1275	
Salt sand	1355	1395	
2nd salt sand	1440	1475	
Maxon sand	1665	1715	
Little lime	1785	1825	
Pencil cove	1825	1835	
Big Lime	1835	1930	
Big Injun	1930	2015	
Fifty foot	2526	2566	
Thirty foot	2636	2656	
Stray sand	2676	2686	
Gordon sand	2693	2728	
Gas 26/10 Mercury	2693		
Gas 7 1/2#	2720		
Total depth		2728	

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Part Zone is Gordon

CASING RECORD.

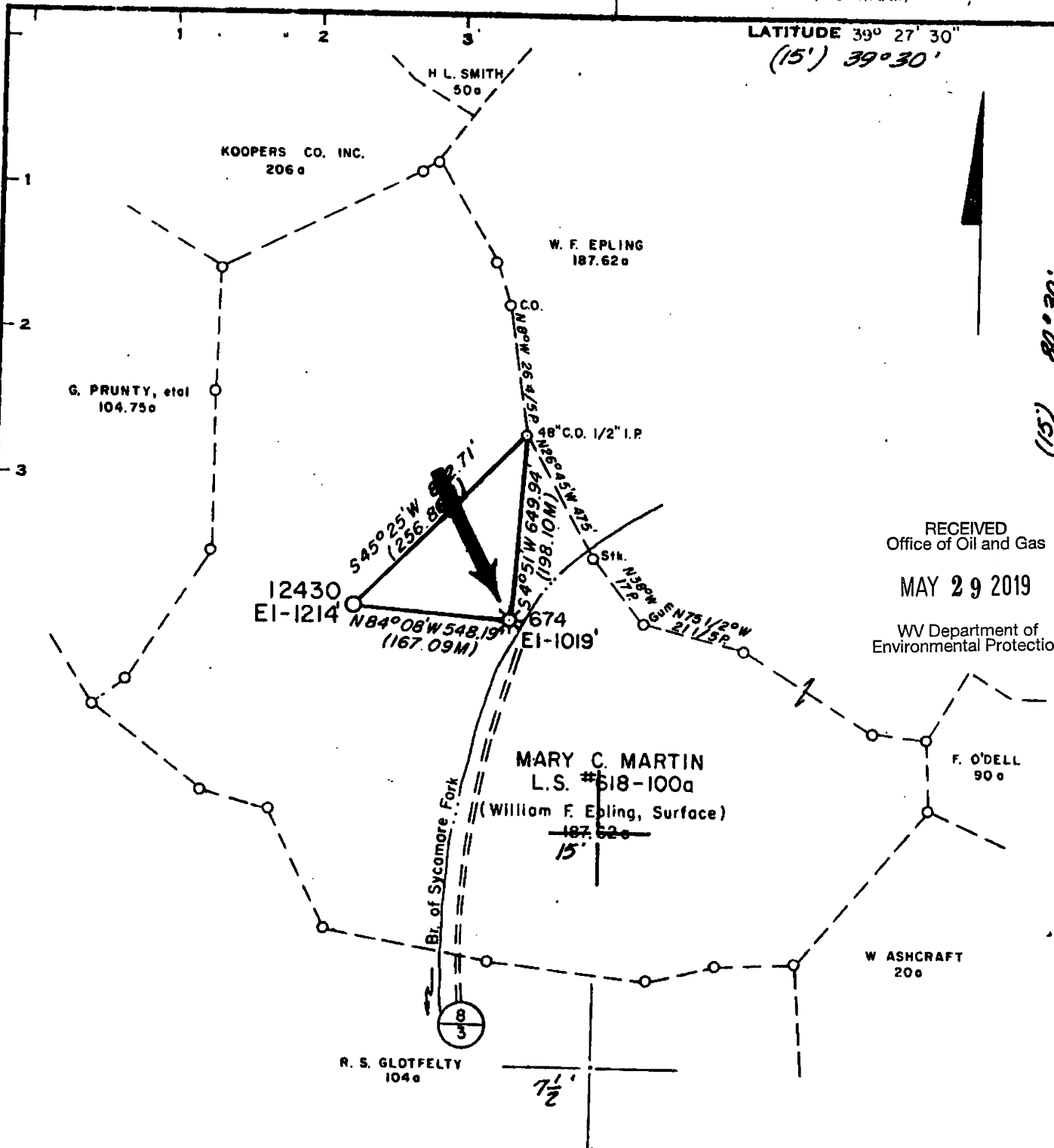
Size	Charged to Well.		Pnt. In Well.		Pulled Out.		Left in Well.		Transferred Before Completion.		Left at Well Not in Use.	
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.
10			210				210					
8 1/4			1396				1396					
5 7/16			2551				2551					

47-017-019081

6,610'
(2014.75M)

LATITUDE 39° 27' 30"
(15') 39° 30'

(15') 80° 30'
LONGITUDE 80° 32' 30"



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MARY C. MARTIN
L.S. #518-100a
(William F. Epling, Surface)
187.62a
15'

Minimum Error of Closure 1' in 200'

Source of Elevation B.M. C.G.S.C. Well 674 EI-1019

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location

Drill Deeper

Abandonment

6/2/78
Map Sheet 45 S3 E3

F.B. 1894 Pg. 34-40
F.B. 1899 Pg. 2-7

47-017-01908P

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
Martin _____
3) API Well No.: 47 - 017 - 01908

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 _____ Address _____ Salem, WV 26426	Name _____ Address _____ Saint Clairsville, OH 43950
(b) Name _____ Address _____	(b) Coal Owner(s) with Declaration Name _____ Address _____ Saint Clairsville, OH 43950
(c) Name _____ Address _____	Name _____ Address _____ Salem, WV 26426
6) Inspector Address _____ Telephone _____	(c) Coal Lessee with Declaration Name _____ 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.

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Commonwealth of Pennsylvania - Notary Seal
Lori L. Walker, Notary Public
Greene County
My commission expires February 23, 2023
Commission number 1260781
Member, Pennsylvania Association of Notaries

Well Operator	CNX Gas Company, LLC
By:	Erika Whetstone <i>Erika Whetstone</i>
Its:	Permitting Manager
Address	1000 Consol Energy Drive Canonsburg, PA 15317
Telephone	724-485-4035

WV Department of Environmental Protection

Commonwealth of Pennsylvania County of Washington
Subscribed and sworn before me this 17th day of May 2019
Lori L. Walker Notary Public
My Commission Expires February 23, 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.

WW-9
(5/16)

47-017-01908 P

API Number 47 - 017 - 01908
Operator's Well No. _____

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) Sycamore Fork Quadrangle Folsom

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: _____

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

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 returns.)

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) _____

-Landfill or offsite name/permit number? _____

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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 Erika Whetstone

Company Official (Typed Name) Erika Whetstone

Company Official Title Permitting Manager

Subscribed and sworn before me this 17th day of May, 2023

Lori L. Walker Notary Public

My commission expires February 23, 2023

Commonwealth of Pennsylvania - Notary Seal
Lori L. Walker, Notary Public
Greene County
My commission expires February 23, 2023
Commission number 1260781
Member, Pennsylvania Association of Notaries

Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed less than 1 acre 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: _____

Comments: Every effort must be made to pull as much pipe as possible

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Title: Oil & Gas Inspector

Date: 5/22/19

Field Reviewed? () Yes () No

WW-7
8-30-06



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

API: 47-017-01908 WELL NO.: Martin

FARM NAME: McDaniel

RESPONSIBLE PARTY NAME: Erika Whetstone

COUNTY: Doddridge DISTRICT: McClellan

QUADRANGLE: Folsom

SURFACE OWNER: Howard R and Judy D McDaniel

ROYALTY OWNER: _____

UTM GPS NORTHING: 4363248.62

UTM GPS EASTING: 537623.76 GPS ELEVATION: 1,019

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

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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.

Erika Whetstone
Signature

Permitting Manager
Title

5/17/2019
Date