



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, March 15, 2021

WELL WORK PLUGGING PERMIT
Coal Bed Methane Well Plugging

CNX GAS COMPANY LLC
1000 CONSOL ENERGY DR
CANONSBURG, PA 15370

Re: Permit approval for 4N GOB
47-051-01027-00-00

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: 4N GOB
Farm Name: WAYT, DONALD
U.S. WELL NUMBER: 47-051-01027-00-00
Coal Bed Methane Well Plugging
Date Issued: 3/15/2021

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4705101027P

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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

03/19/2021

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 1276 Watershed Hog Run
District Washington County Marshall Quadrangle Powhattan point

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

8) Oil and Gas Inspector to be notified Name James Nicholson
Address P.O. Box 44
Moundsville, WV 26041
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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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *Jim Nicholson* Date 12/7/2020

03/19/2021

Well: Wayt (4N GOB)

API#: 47-051-01027 P

District: Franklin

County: Marshall

Elevation: 1276'

Wayt (4N GOB) Proposed Plugging and Abandonment Procedure

1. Run in with gauge ring and find TD along with hole size. (Make call to CNX if tagging high to come up with game plan)
2. Once TD has been reached, Run Collar Locator and determine bottom of 4 1/2" casing
3. Once bottom of casing has been located RIH with bridge plug and set in bottom joint of casing
4. Once CIBP has been set load hole with water and Bond Log 4 1/2" casing. If cement top is found to not be at surface notify CNX and prepare to pull uncemented casing.
5. If cement on 4 1/2" is at surface or once uncemented has been pulled prepare to cement well to surface
6. TIH with work string to CIBP and cement well to surface
7. TOOH w/ work string and top off well with cement
8. 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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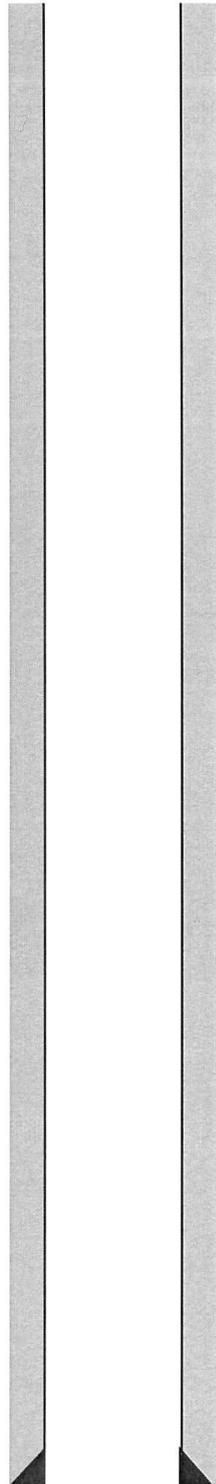
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4705101027P

Wayt 4N GOB
Franklin District, Marshall WV
Original Completion : ?
API #47-051-01027
Elevation = 1276'



4 1/2" Casing @ 841'
Cemented to Surface

Pittsburgh Seam

TD @ (841')

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3

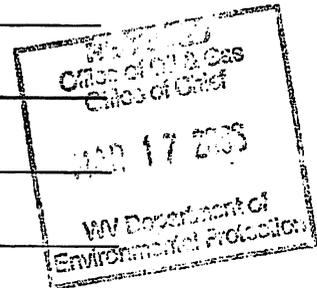
4705101027

51.01027C

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

51, 3, 25-8

- 1) Well Operator: CNX Gas Company LLC 2) Well Name Well No 4N GOB
3) Operator's Well Number 4N GOB 4) Elevation 1275.61'
5) Well Type: (a) Oil / or Gas / (b) If Gas: Production / Underground Storage / CBM X / Deep / Shallow X /
6) Proposed Target Formation(s): Pittsburgh Coal Seam Mine Methane
7) Proposed Total Depth: 841'
8) Approximate Fresh Water Strata Depths: Not Known
9) Approximate Salt Water Depths: Not Known
10) Approximate Coal Seam Depths: See attached predict
11) Does Land Contain Coal Seams Tributary to Active Mines? Yes X / No /
12) (a) Proposed Well Work: Convert an existing ventilation borehole (Well No. 4N GOB a producing CBM Gob well.
(b) If Stimulation Proposed, Describe Means to be Used to Stimulate Well: No Stimulation
13) (a) Does the proposed operation plan to convert an existing well (as defined in W. Va. Code § 22-6-1) or a vertical ventilation hole to a coalbed methane well? Yes X / No /
(b) If yes, please attach to this Application a list of all formations from which production is anticipated and a description of any plans to plug any portion of the well. (See Attachment 13b).
14) (a) Will the proposed coalbed methane well be completed in some but not all coal seams for production (except for a gob well or vent hole proposed to be converted to a well)? Yes / No / N/A
(b) If yes, please attach to this Application a plan and design for the well which will protect all workable coal seams which will be penetrated by the well.
15) (a) Does the proposed operation include horizontal drilling of a well commenced on the surface? Yes / No X /
(b) If yes, please attach to this Application a description of such operations, including both the vertical and horizontal alignment and extent of the well from the surface to total depth.



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Handwritten notes: 03/19/2021, 500-

PREDICT

4705101027

51-01027

HOLE:	ESTIMATED EASTING	ESTIMATED NORTHING	ESTIMATED ELEVATION
4N GOB	1647619	493858	1290

SEAM	DEPTH FROM (FEET)	DEPTH TO (FEET)	ELEVATION (TOSE)	THICKNESS (FEET)
TOPO	0.00	0.00	1290.00	0.00
SW	763.15	759.35	526.85	3.80
RC	821.10	820.20	468.90	0.90
*PG	846.70	841.40	443.30	5.30

* Coal seam subject to coalbed methane production.

09:44:24 02/27/06

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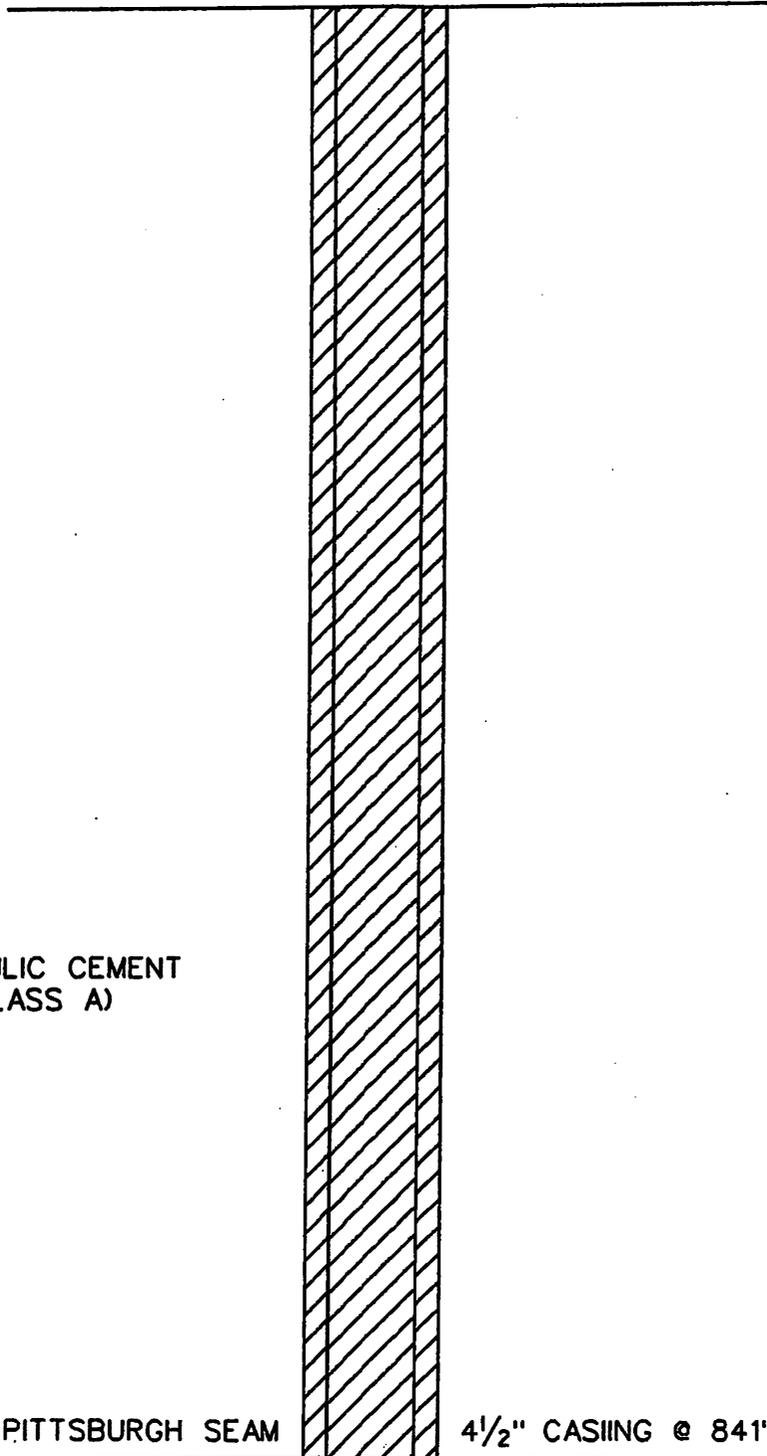
CBM-4N GOB

51-01027

EXISTING CASING

PROPOSED PLUGGING AND ABANDONMENT SCHEMATIC

SURFACE



HYDRAULIC CEMENT
(CLASS A)

PITTSBURGH SEAM

4 1/2" CASING @ 841'

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TOTAL DEPTH - 841'

NOT TO SCALE

3/6/06

03/19/2021

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu. ft.)
Conductor	4 1/2"				841'	150 sks
Fresh Water	4 1/2"				841'	150 sks
Coal	4 1/2"				841'	150 sks
Intermediate						
Production	4 1/2"				841'	150 sks
Tubing						
Liners						

B. N. [Signature]
3-24-06

PACKERS:

For Office of Oil and Gas Use Only

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

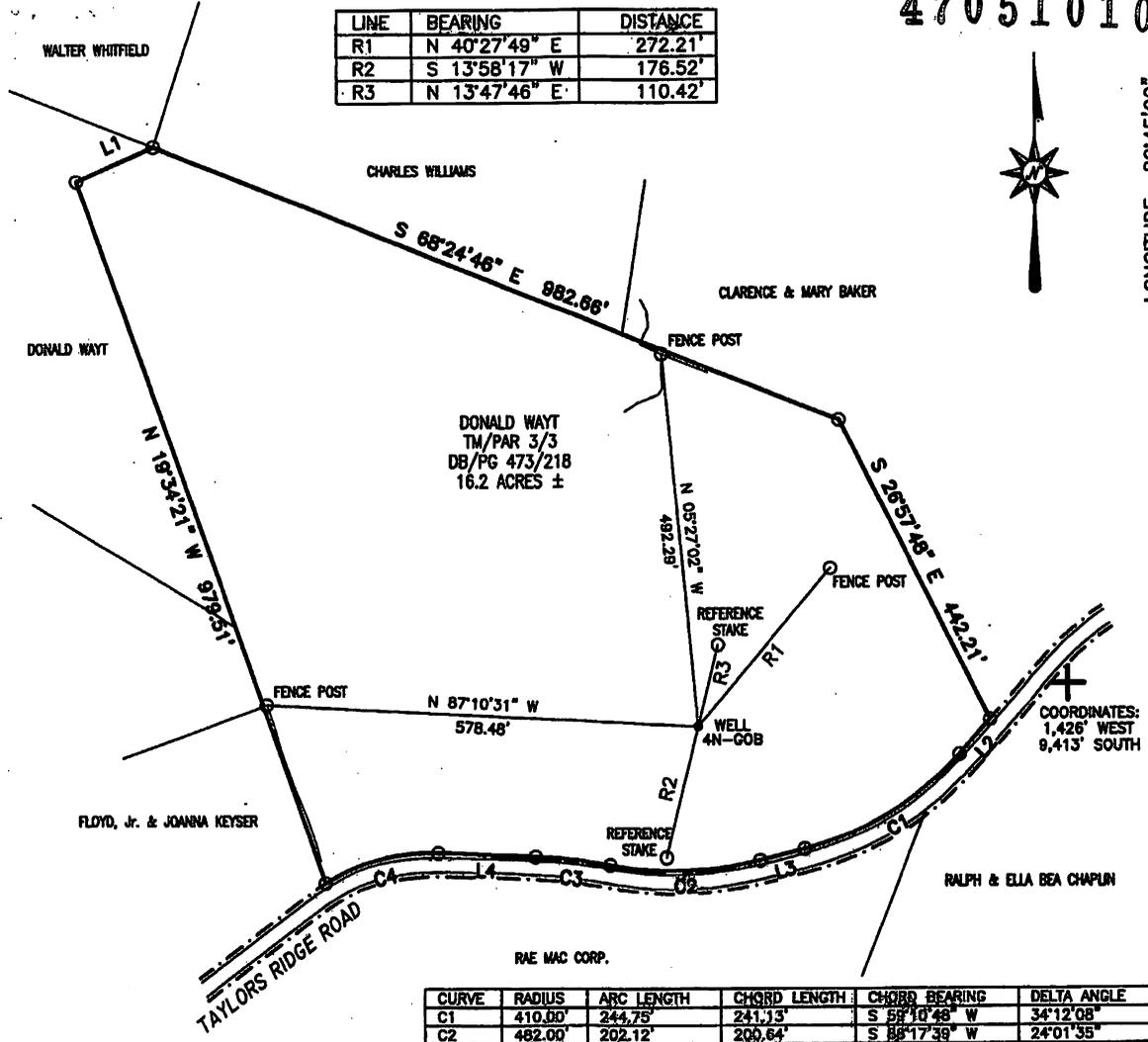
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MAR 28 2005
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LATITUDE 39°52'30"
 4705101027

LONGITUDE 80°45'00"

LINE	BEARING	DISTANCE
R1	N 40°27'49" E	272.21'
R2	S 13°58'17" W	176.52'
R3	N 13°47'46" E	110.42'



CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	410.00'	244.75'	241.13'	S 58°10'48" W	34°12'08"
C2	482.00'	202.12'	200.64'	S 88°17'38" W	24°01'35"
C3	716.00'	101.12'	101.03'	N 83°44'18" W	08°05'30"
C4	289.00'	157.71'	155.48'	N 75°25'14" E	33°35'27"

LINE	BEARING	DISTANCE
L1	N 86°24'07" E	112.60'
L2	S 42°04'44" W	60.88'
L3	S 76°16'52" W	61.66'
L4	N 87°47'03" W	130.37'

Blue Mountain Engineering
 11023 MASON Dixon HIGHWAY
 BURTON, WV 25802
 PHONE: (304) 682-6988



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE FEBRUARY 7 20 06
 OPERATOR'S WELL NO. 4N-GOB
 API WELL NO. 47 - 051 - 01027C
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1/2500 FILE No.: 4N-GOB
 SCALE: 1" = 200'
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT - EASTON 1481.53'

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

WELL TYPE: OIL GAS CBM LIQUID INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1275.61' WATERSHED: HOG RUN
 DISTRICT: FRANKLIN COUNTY: MARSHALL QUADRANGLE: POWhatan Point, OH-WV 7.5'
 SURFACE OWNER: DONALD WAYT ACREAGE: 16.2±
 ROYALTY OWNER: DONALD WAYT LEASE ACREAGE: _____
 PROPOSED WORK: DRILL A GOB WELL LEASE No.: _____
 DRILL: CONVERT: _____ DRILL DEEPER: _____ REDRILL: _____ FRACTURE OR STIMULATE: _____ PLUG OFF OLD: _____
 FORMATION: _____ PERFORATE NEW FORMATION: _____ PLUG AND ABANDON: _____ CLEAN OUT AND REPLUG: _____ OTHER: _____
 PHYSICAL CHANGE IN WELL (SPECIFY): _____ TARGET FORMATION: PITTSBURGH COAL SEAM
 ESTIMATED DEPTH: 841'

WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: JOHN H. JOHNSTON
 ADDRESS: P.O. Box 947, Bluefield, VA 24605 ADDRESS: Bank One Center, P.O. Box 1588, Charleston, WV 25326

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WW-4A
Revised 6-07

1) Date: 12-1-2020
2) Operator's Well Number
4N
3) API Well No.: 47 - 051 - 01027

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 Donald Wayt, Address 4716 Taylors Ridge Rd., Proctor, WV 26055. (b) Name, Address. (c) Name, Address. 5) (a) Coal Operator Name, Address. (b) Coal Owner(s) with Declaration Name Consolidated Coal Company, Address 46226 National Road, Saint Clairsville, OH 43950. (c) Coal Lessee with Declaration Name, Address. 6) Inspector James Nicholson, Address P.O. Box 44, Moundsville, WV 26041, Telephone 304-552-3874.

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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WV Department of Environmental Protection

Subscribed and sworn before me this 3RD day of December 2020
Vicki L. Smith
Notary Public

My Commission Expires
Oil and Gas Privacy Notice
Commonwealth of Pennsylvania - Notary Seal
Vicki L. Smith, Notary Public
Indiana County
My commission expires June 19, 2022
Commission number 1155912

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.

03/19/2021

4850 012000

Office of Oil and Gas
REGISTRY
DEC 10 2020
Department of Environmental Protection

Department of Environmental Protection
Commission number: 188013
My commission expires June 16, 2025
Indiana County
Wesley L. Smith, Notary Public
Commonwealth of Pennsylvania - Notary Seal

03/19/2021

7019 1120 0001 5856 2815

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Saint Clairsville, OH 43950

Certified Mail Fee	\$3.55
Extra Services & Fees (check box, add fee as appropriate)	\$0.00
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage	\$2.80
Total Postage	\$6.35

Sent To
Consolidated Coal Company
46226 National Road
Saint Clairsville, OH 43950



7019 1120 0001 5856 2839

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Proctor, WV 26055

Certified Mail Fee	\$3.55
Extra Services & Fees (check box, add fee as appropriate)	\$0.00
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage	\$1.20
Total Postage	\$4.75

Sent To
Donald Wayt (4N)
4716 Taylors Ridge Rd.
Proctor, WV 26055



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03/19/2021

WW-9
(5/16)

4705101027P

API Number 47 - 051 - 01027
Operator's Well No. 4N

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) Hog Run Quadrangle Powhatan Point

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

ANY WELL EFFLUENT WILL BE CONTAINED IN TANKS BEFORE DISPOSING OFF SITE. 2020

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 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. na

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 [Signature]

Company Official (Typed Name) Raymond Hoon

Company Official Title Senior Project Manager

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Subscribed and sworn before me this 3RD day of December, 2020

[Signature]

Commonwealth of Pennsylvania - Notary Seal
Vicki L. Smith, Notary Public
Indiana County
My commission expires June 19, 2022
Commission number 1155912
Member, Pennsylvania Association of Notaries

Notary Public

My commission expires _____

03/19/2021

Proposed Revegetation Treatment: Acres Disturbed .8 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: _____

Jim Wickham

Comments: _____

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Title: Oil & Gas Inspector

Date: _____

Field Reviewed? () Yes () No



470510102

◆ Well Location
 □ Limit of Disturbance

4N
 (39.849314, -80.754895)
 Limit of Disturbance
 = 0.80 Acre

0
 500
 1,000
 Feet



Copyright © 2013 National Geographic Society. All rights reserved.

Date: 11/19/21
 By: R. Kemner



4N Well Head
 Site Location Topographic Map
 Marshall County, West Virginia

03/19/2021

2



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

API: 4705101027 WELL NO.: 4N

FARM NAME: Donald Wayt

RESPONSIBLE PARTY NAME: CNX

COUNTY: Marshall DISTRICT: Washington

QUADRANGLE: Powhatan

SURFACE OWNER: Donald Wayt

ROYALTY OWNER: Donald Wayt

UTM GPS NORTHING: 4411061.50

UTM GPS EASTING: 520968.02 GPS ELEVATION: 1276.25

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 _____ : Post Processed Differential _____

Real-Time Differential _____

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

Project MANAGER
Title

12-3-20
Date

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