



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

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 3-D-2
47-049-01566-00-00

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: 3-D-2
Farm Name: DELANEY, HOLLAND
U.S. WELL NUMBER: 47-049-01566-00-00
Coal Bed Methane Well Plugging
Date Issued: 2/24/2020

Promoting a healthy environment.

I

47-049-01568

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 under the terms of that agreement.

47-049-01560A

WW-4B
Rev. 2/01

1) Date 1/15, 2020
2) Operator's
Well No. 302
3) API Well No. 47-049 - 01560 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 x / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production x or Underground storage ___) Deep ___ / Shallow x
- 5) Location: Elevation 1370 Watershed Campbells Run
District Mannington County Marion Quadrangle Hundred
- 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 9) Plugging Contractor
Name Sam Ward Name Coastal Drilling east LLC
Address P.O. Box 2327 Address 70 gums Springs Road
Buckhannon, WV 26201 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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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 S. D. Ward Date 2/17/2020

Well: 3D2 (Delaney)

API#: 47-049-01566

District: Mannington

County: Marion

Elevation: 1370'

3D2 Proposed Plugging and Abandonment Procedure

1. Run in and tag TD (~1090) 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 ~~is~~ 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

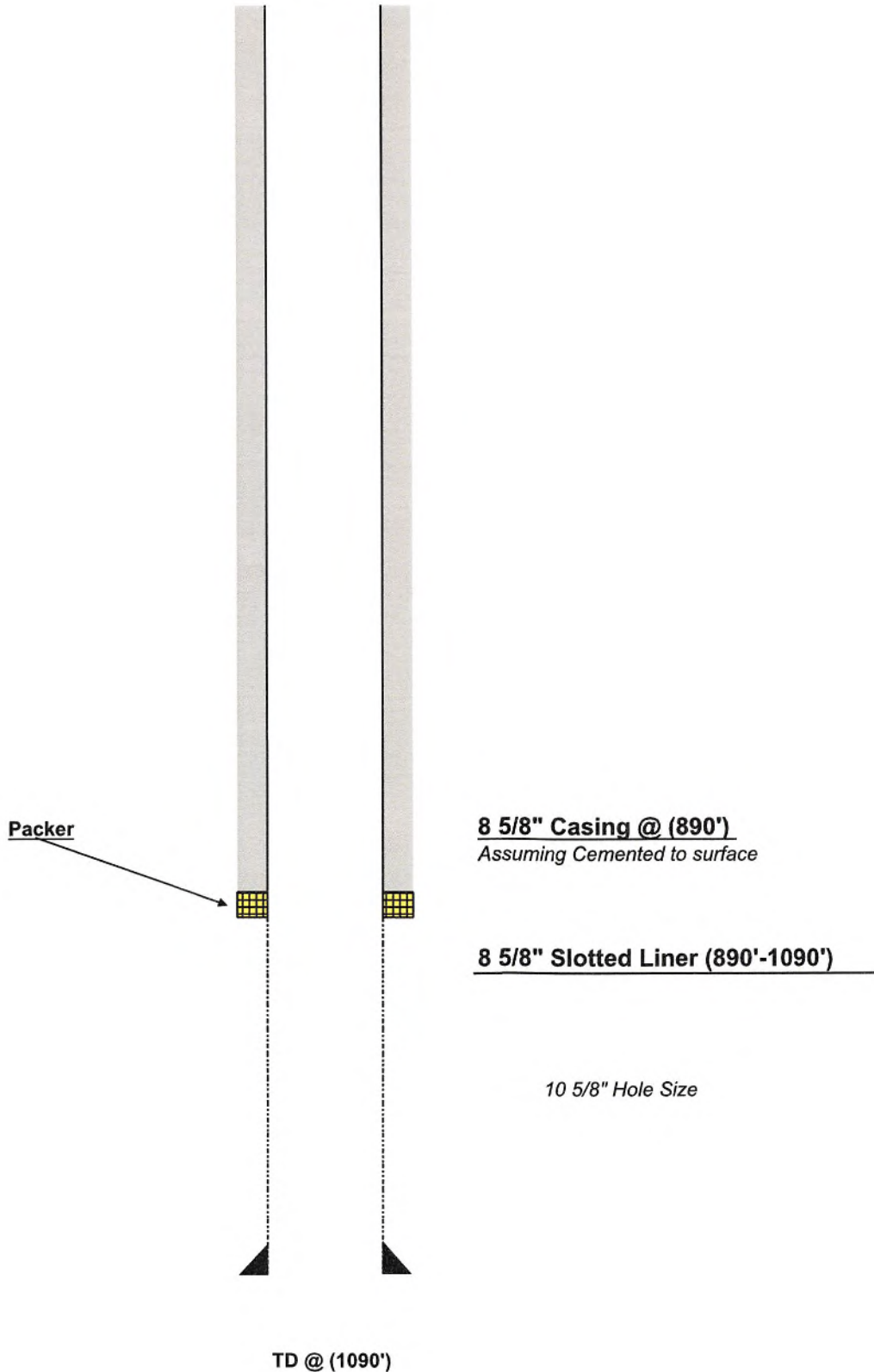
SDW
2/7/2020

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Delaney 3D2
Mannington District, Marion WV
Original Completion : ?
API #47-049-01566
Elevation = 1370'



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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 47-049-01566 County Marion District Mannington
Quad Hundred Pad Name Delaney 3D2 Field/Pool Name _____
Farm name Delaney Elva M Well Number 3D2
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 4386805.24 Easting 552830.40
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1370 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) _____

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Reviewed by:
SPW 2/12/2020

WR-35
Rev. 8/23/13

API 47-049 - 01566 Farm name Delaney Elva M Well number 3D2

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	10.625	8.625	1090				
Tubing							
Packer type and depth set		Formation Packer @ 890'					

Comment Details _____

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

Drillers TD (ft) 1090 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 *SDW*
 Well cored Yes No Conventional Sidewall Were cuttings collected Yes No *2/7/2020*

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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WR-35
Rev. 8/23/13

API 47- 049 - 01566 Farm name Delaney Elva M Well number 3D2

<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/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

Pittsburgh Coal	0		0		

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 _____ Title Sr. Engineer Date 12/11/2019

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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Existing
TU
1-20-05

EXISTING
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu. ft.)
Conductor	5 1/2"				1090'	0 - 890'
Fresh Water	5 1/2"				1090'	0 - 890'
Coal	5 1/2"				1090'	0 - 890'
Intermediate						
Production	5 1/2"				1090'	0 - 890'
Tubing						
Liners						

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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N/A

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

- 1) Well Operator: CNX Gas Company LLC
2) Well Name Well No. 3-D-2
3) Operator's Well Number 3-D-2
4) Elevation 1378'
5) Well Type: (a) Oil / or Gas /
(b) If Gas: Production X / Underground Storage / CBM X /
Deep / Shallow X /
6) Proposed Target Formation(s): Pittsburgh Coal Seam Mine Methane
7) Proposed Total Depth: 1066' feet
8) Approximate Fresh Water Strata Depths: Not Known
9) Approximate Salt Water Depths: Not Known
10) Approximate Coal Seam Depths: Pittsburgh @ '
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. 3-D-2 to 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 N/A /
(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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WW-4A
Revised 6-07

1) Date: 1/15/20
2) Operator's Well Number
3D2
3) API Well No.: 47 - 049 - 01566

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

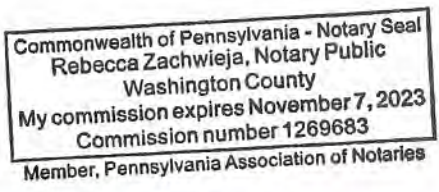
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Elva M. Delaney</u>	Name <u>Consolidated Coal Company</u>
Address <u>654 Stiles Fork Rd.</u>	Address <u>46226 National Road</u>
<u>Metz, WV 26585</u>	<u>Saint Clairsville, OH 43950</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Elva M. Delaney</u>
(c) Name _____	Address <u>654 Stiles Fork Rd.</u>
Address _____	<u>Metz, WV 26585</u>
(6) Inspector <u>Sam Ward</u>	Name <u>Consolidated Coal Company</u>
Address <u>P.O. Box 2327</u>	Address <u>46226 National Road</u>
<u>Buckhannon, WV 26201</u>	<u>Saint Clairsville, OH 43950</u>
Telephone <u>304-3987583</u>	(c) Coal Lessee with Declaration
	Name <u>Consolidated Coal Company</u>
	Address <u>46226 National Road</u>
	<u>Saint Clairsville, OH 43950</u>

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

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

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.

47-049-01566P

WW-9
(5/16)

API Number 47 - 049 - 01566
Operator's Well No. 3D2

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

Rebecca Zachwieja

Notary Public
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

My commission expires November 7, 2023

Proposed Revegetation Treatment: Acres Disturbed 4.95 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: OOG Inspector Date: 2/7/2020

Field Reviewed? () Yes (X) No

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3D2 WELL PLUGGING

MANNINGTON DISTRICT, MARION COUNTY, WEST VIRGINIA

PREPARED FOR:
CNX GAS COMPANY, LLC

WELL LOCATION:
3D2: LAT 39.629380
LONG -80.384420

ACCESS ROAD LOCATION:
LAT 39.623797
LONG -80.383289



- CONTOUR LINE INTERVAL: 20 FEET
1. PROPOSED NEW IMPROVED QUADRIPOLE
 2. EXISTING 3/4" DIA. QUADRIPOLE
 3. PROPOSED NEW IMPROVED QUADRIPOLE
 4. EXISTING 3/4" DIA. QUADRIPOLE



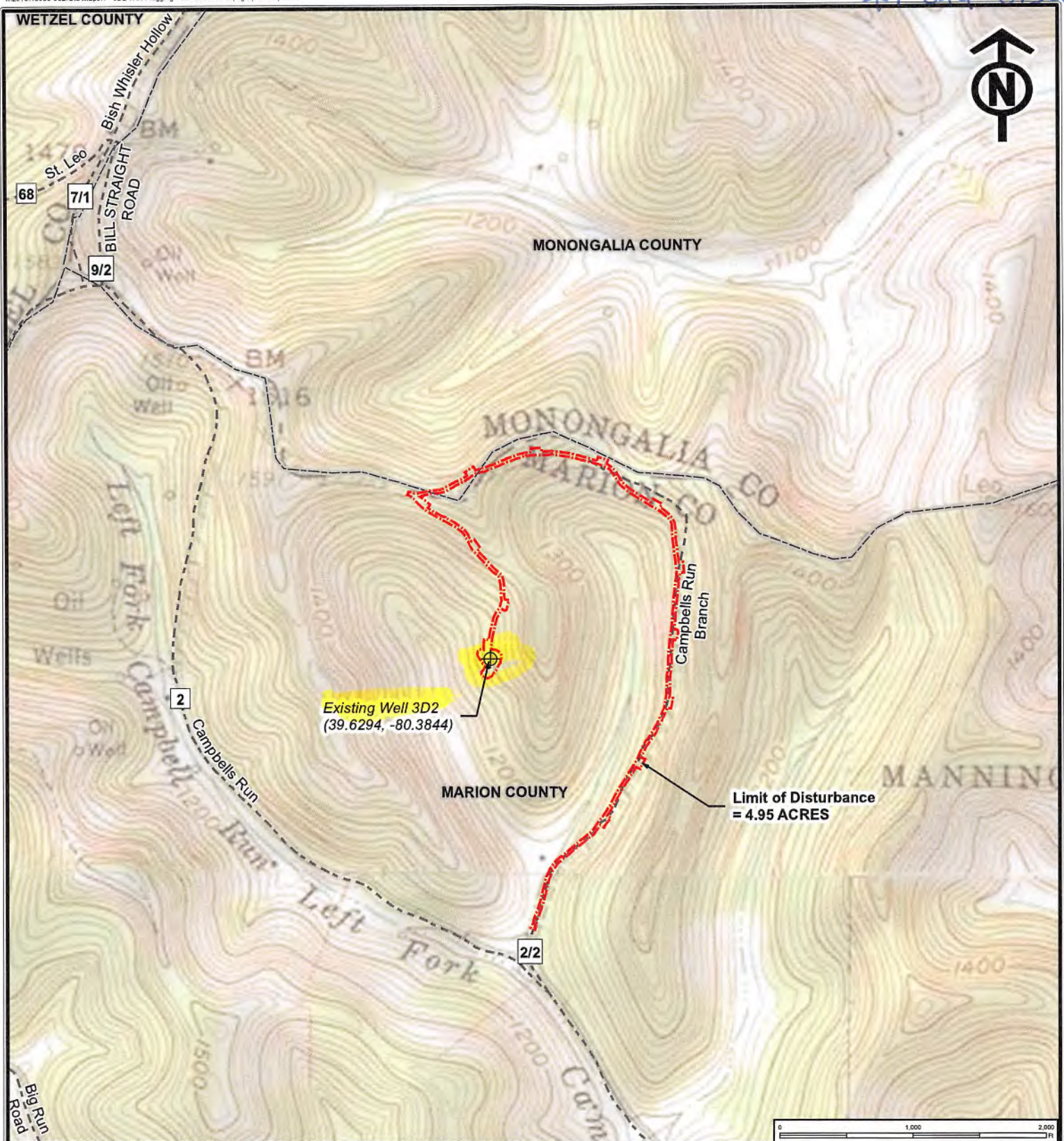
OCTOBER 2019
KEYSTONE CONSULTANTS, LLC

Sheet List Table

Sheet Number	Sheet Title
001	3D2 WELL PLUGGING
002	3D2 WELL PLUGGING
003	3D2 WELL PLUGGING
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SDW
1/15/2020

DRAWING NUMBER 000 SHEET 01 OF 23	3D2 WELL PLUGGING MANNINGTON DISTRICT, MARION COUNTY, WEST VIRGINIA COVER SHEET	KEYSTONE CONSULTANTS, LLC 50 EAST SUNDY STREET CHARLESTON, WV 25309 PH: (304) 742-1100 FAX: (304) 742-1108 WWW.KEYSTONECONSULTANTS.NET	CNX CNX RESOURCES CORPORATION, LLC 1600 CONSOL ENERGY DRIVE CANONSBURG, PA 15317	REVISIONS
	WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			



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LEGEND

- Existing Well
- Limit of Disturbance
- Road
- County Boundary

Prepared By: **KEYSTONE CONSULTANTS INC.**
 www.keystoneconsultants.net 412-278-2100

REV	DESCRIPTION	DATE

DWN BY: AMW APR BY: EAZ DATE: 11/11/2019



**3D2 Well Plugging
Site Location Topographic Map**

Marion & Monongalia County, WV

DRAWING NUMBER: 001

SCALE: 1" = 1,000 feet SHEET: 1 OF 2

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 4704901566 WELL NO.: 3D2

FARM NAME: Delaney Elva M

RESPONSIBLE PARTY NAME: CNX Gas Company

COUNTY: Marion DISTRICT: Mannington

QUADRANGLE: Hundred

SURFACE OWNER: Delaney Elva M

ROYALTY OWNER: _____

UTM GPS NORTHING: 4386805.24

UTM GPS EASTING: 552830.40 GPS ELEVATION: 417.65 m / 1370.23 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:

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 X

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.

Raymond [Signature]
Signature

Project Manager
Title

2-12-2020
Date

RECEIVED
Office of Oil and Gas
FEB 13 2020
WV Department of
Environmental Protection