



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

Thursday, July 18, 2019
WELL WORK PERMIT
Horizontal 6A / New Drill

CNX GAS COMPANY LLC
POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for WDTN6CHSM
47-061-01849-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: WDTN6CHSM
Farm Name: CONSOL RCPC LLC
U.S. WELL NUMBER: 47-061-01849-00-00
Horizontal 6A New Drill
Date Issued: 7/18/2019

A blue ink signature of James A. Martin, Chief, is written over the permit details.

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

PERMIT CONDITIONS

4706101849

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
dep.wv.gov

**ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: CNX Gas Company, LLC
P.O. Box 1248
Jane Lew, WV 26378

DATE: June 18, 2019
ORDER NO.: 2019-W-11

INTRODUCTION

This Order (hereinafter “Order”) is issued by the Office of Oil and Gas (hereinafter “OOG”), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.*, to CNX Gas Company, LLC (hereinafter “Operator”), collectively the “Parties.”

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. CNX Gas Company, LLC is a “person” as defined by W. Va. Code §22-6-1(n), with a corporate address as P.O. Box 1248, Jane Lew, WV 26378.
3. On May 22, 2019, CNX Gas Company, LLC submitted a well work permit application identified as API# 47-061-01849. The proposed well is to be located on the WDTN 6 Pad in the Battelle District of Monongalia County, West Virginia.
4. On May 22, 2019, CNX Gas Company, LLC requested a waiver for Wetlands B and C as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-061-01849. Wetland D will be permanently impacted and subject to USACE Nationwide Permit 39.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to... (3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.”

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands B and C from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-061-01849. The Office of Oil and Gas hereby **ORDERS** that CNX Gas Company, LLC shall meet the following site construction and operational requirements for the WDTN 6 Well Pad:

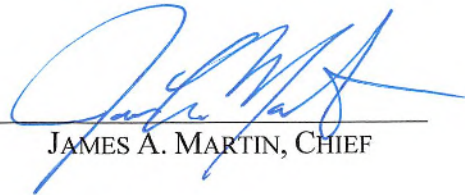
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland B and C shall have a triple CFS stack consisting of two (2) rows of twenty-four (24”) compost filter sock and one (1) row of eighteen-inch (18”) compost filter sock to prevent any sediment from reaching the wetland from the well pad. This along with rip-rap aprons, temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 18th day of June, 2019.

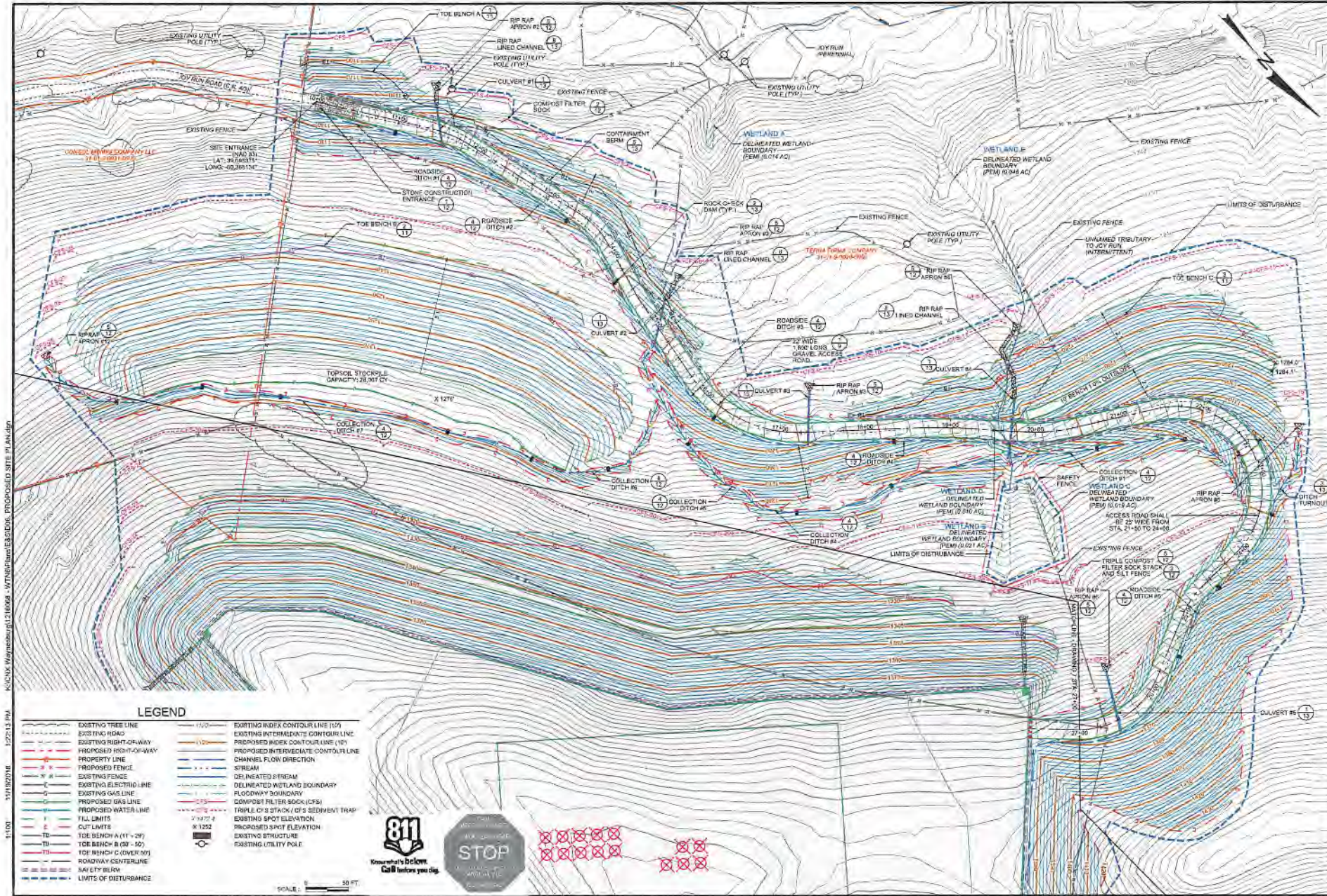
IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: _____



JAMES A. MARTIN, CHIEF



11/19/2018 1:27:13 PM K:\CONK Wayneburg1210069 - WTN6\Draw\ES-SDWG - PROPOSED SITE PLAN.dwg

LEGEND

- | | | | |
|---------|-------------------------|--------|--------------------------------------|
| —●—●—●— | EXISTING TREE LINE | —1170— | EXISTING INDEX CONTOUR LINE (10') |
| —●—●—●— | EXISTING ROAD | —1120— | EXISTING INTERMEDIATE CONTOUR LINE |
| —●—●—●— | EXISTING RIGHT-OF-WAY | —1100— | PROPOSED INDEX CONTOUR LINE (10') |
| —●—●—●— | PROPOSED RIGHT-OF-WAY | —1080— | PROPOSED INTERMEDIATE CONTOUR LINE |
| —●—●—●— | PROPERTY LINE | —1060— | CHANNEL FLOW DIRECTION |
| —●—●—●— | PROPOSED FENCE | —1040— | STREAM |
| —●—●—●— | EXISTING FENCE | —1020— | DELINEATED STREAM |
| —●—●—●— | EXISTING ELECTRIC LINE | —1000— | DELINEATED WETLAND BOUNDARY |
| —●—●—●— | EXISTING GAS LINE | —980— | FLOODWAY BOUNDARY |
| —●—●—●— | PROPOSED GAS LINE | —960— | COMPOST FILTER SOCK (CFS) |
| —●—●—●— | PROPOSED WATER LINE | —940— | TRIPLE C'S STACK (C/S SEDIMENT TRAP) |
| —●—●—●— | TILL LIMITS | —920— | EXISTING SPOT ELEVATION |
| —●—●—●— | CUT LIMITS | —900— | PROPOSED SPOT ELEVATION |
| —●—●—●— | TOE BENCH A (11' - 30') | —880— | EXISTING STRUCTURE |
| —●—●—●— | TOE BENCH B (30' - 50') | —860— | EXISTING UTILITY POLE |
| —●—●—●— | TOE BENCH C (COVER 50') | —840— | |
| —●—●—●— | ROADWAY CENTERLINE | —820— | |
| —●—●—●— | SAFETY RUN | —800— | |
| —●—●—●— | LIMITS OF DISTURBANCE | —780— | |

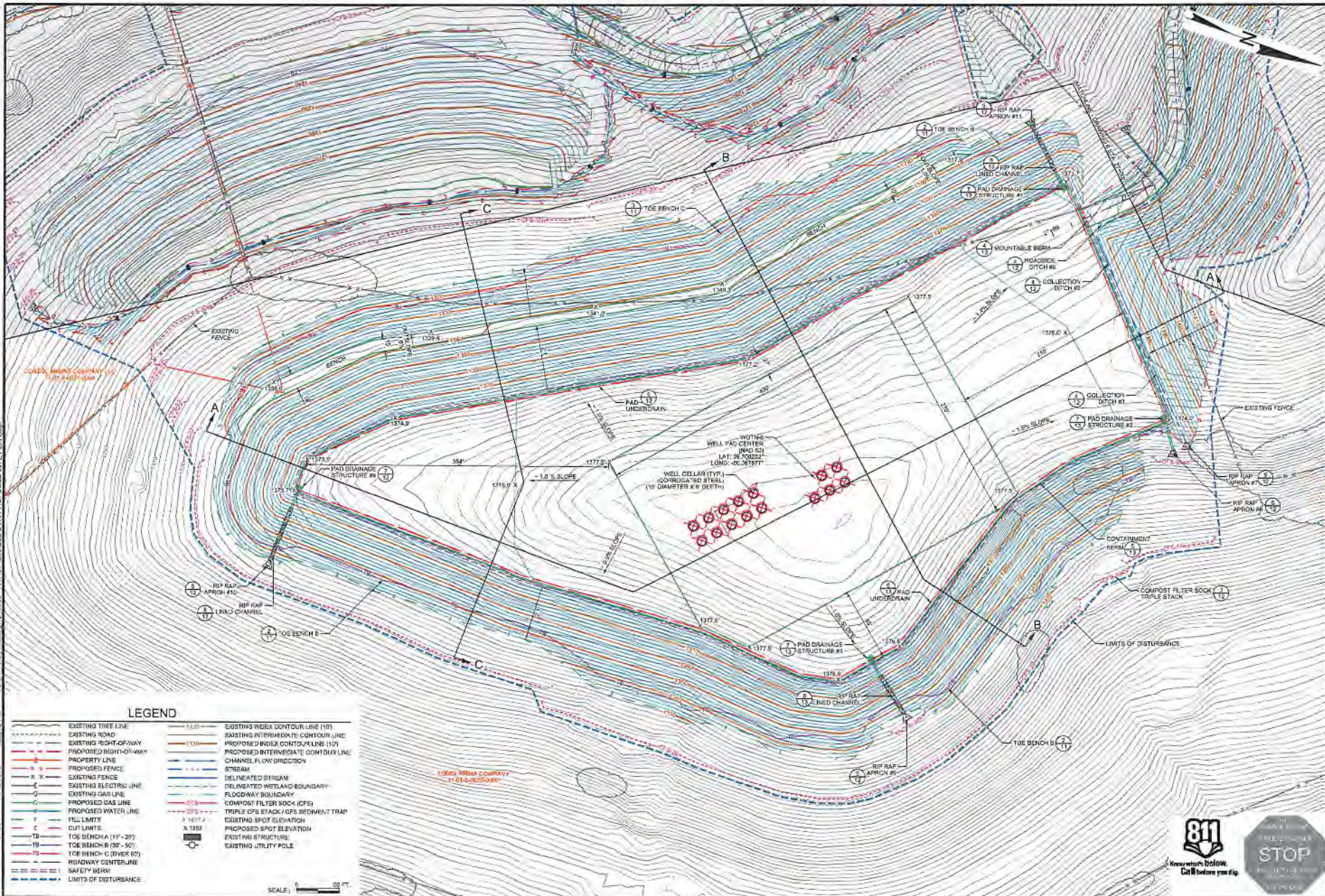


SCALE: 1" = 50 FT

DATE	TIME	BY	CHECKED	APP. NO.	SCALE	SHEET NO.	TOTAL SHEETS
WDTN-6 WELL SITE							
PROPOSED SITE PLAN							
6							

DIFFENBAUGH & HARTZ, LLC
 10000 Chagrin Road, Suite 200
 Cleveland, Ohio 44130
 P: 216.885.6500 F: 216.885.6507

11/03/2018 11:22:48 PM KACOUX WisconsinWildlife068-MTNRPlanClassDoc-PROPOSED SITE PLAN.dwg



LEGEND	
	EXISTING TREE LINE
	EXISTING ROAD
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	PROPERTY LINE
	PROPOSED FENCE
	EXISTING FENCE
	EXISTING ELECTRICAL LINE
	EXISTING GAS LINE
	PROPOSED GAS LINE
	PROPOSED WATER LINE
	FILL LIMITS
	CUT LIMITS
	TOE BENCH A (10' - 20')
	TOE BENCH B (30' - 50')
	TOE BENCH C (OVER 60')
	ROADWAY CENTERLINE
	SAFETY MARK
	LIMITS OF DISTURBANCE
	EXISTING INDEX CONTOUR LINE (10')
	EXISTING INTERMEDIATE CONTOUR LINE
	PROPOSED INDEX CONTOUR LINE (10')
	PROPOSED INTERMEDIATE CONTOUR LINE
	CHANNEL FLOW DIRECTION
	STREAM
	DELINEATED STREAM
	DELINEATED WETLAND BOUNDARY
	FLOODWAY BOUNDARY
	COMPOST FILTER SOCK (CFS)
	TRIPLE CFS STACK / CFS BROWMANT TRAP
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	EXISTING STRUCTURE
	EXISTING UTILITY POLE

SCALE: 1" = 60'



Know what's below. Call before you dig.



DATE	11/03/2018
BY	J.M. CHAMPA
CHECKED BY	SMB
APPROVED BY	HP
DATE	NOV 2018
PROJECT NO.	1218062
PROJECT NAME	WDTNR6 WELL SITE
DESIGNER	DIFFENBAUGH & FRITZ, LLC
PROJECT ADDRESS	11111 WISCONSIN WILDLIFE
PROJECT CITY	MADISON, WI 53701
PROJECT PHONE	735.262.0000
PROJECT FAX	735.262.0007
PROJECT SHEET	7
PROJECT TOTAL SHEETS	7

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: 4706101849

Operator's Well Number: WDTN6CHSM

Well Operator: CNX Gas Company, LLC

Well Number: WDTN6CHSM

Well Pad Name: WDTN6

County, District, Quadrangle of Well Location: Monongalia, Battelle, Wadestown

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows:

- (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir.
- (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake.
- (3) For a groundwater source, the distance shall be measured from the wellhead or spring.

The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.

§22-6A-12(c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section.

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: 4706101849

Operator's Well Number: WDTN6CHSM

- 3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.**

One wetland will be completely and permanently impacted in order to construct access to the well pad. Two additional wetlands are located within 100 feet of the LOD and will be protected by utilizing the following controls.

Wetland B: Compost filter sock, Rip-Rap aprons and Temporary and permanent vegetative cover will be located above the wetland.

Wetland C: Triple Stack Compost Filter Sock, Rip-Rap aprons and Temporary and permanent vegetative cover will be located above the wetland.

- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.**

- a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

Additional E&S Controls that may be used during the construction of this site include:

Compost filter sock
Triple compost filter sock
Compost filter sock sediment trap
Rip-rap lined channels
Rip-rap aprons
Rock check dams
Rock Construction Entrance
Diversion Ditches
Roadway culverts
Temporary and permanent seeding & mulching
All disturbed areas are to be seeded as soon as possible.

Specific implementation of these controls can be found in the Erosion and Sedimentation Control Plan submitted with the permit application.

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

The project is located northeast of Joy Run Road (CR-4/3) in the Wadestown area of Monongalia County, WV. The proposed entrance is at 39.698375 and -80.368134 (NAD83 WVN). The limit of disturbance (LOD) of the WDTN6 Well Site project is approximately 29.2 acres in size. The project includes a 1,760-foot access road, well pad, and excess material/topsoil stockpiles. The general site topography consists of a hillslope/ridgeline complex with gentle to moderate slopes draining generally to the south to Joy Run. Joy Run is an indirect tributary to the Monongahela River, which is a traditionally navigable water (TNW). Vegetation communities include mixed deciduous forests with areas of herbaceous meadows.

The wetland description is continued on the additional attached pages...

2. Justify the proposed activity by describing alternatives to this project that were considered.

- a. Include a No-Action Alternative as to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred foot buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative

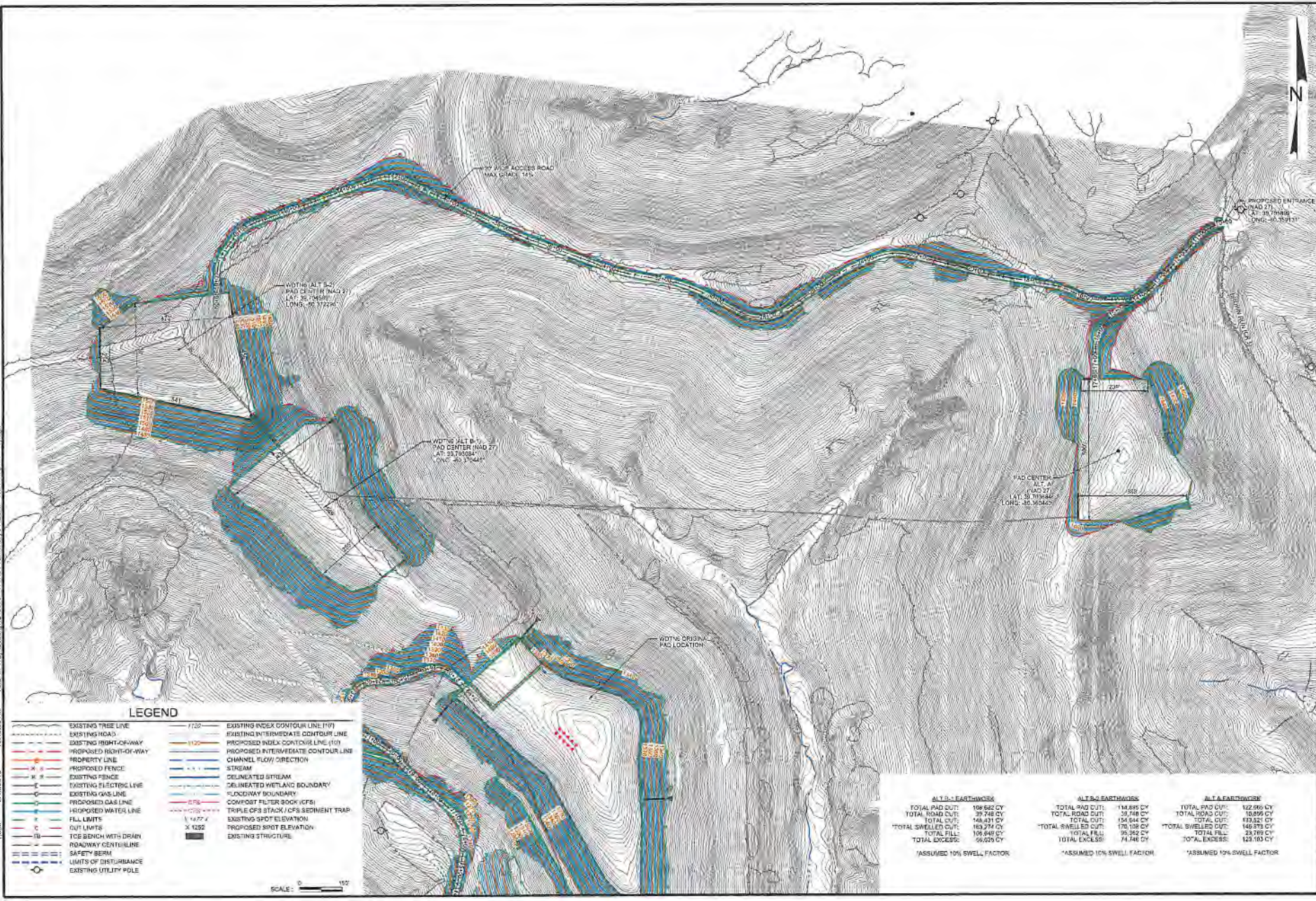
a. This pad is essential for gas production in this area. There would be stranded undeveloped acreage in the drilling unit if this pad were not constructed.

b. Alternative locations were investigated but never materialized due to topography and access constraints. Alternative location concepts are attached.

c/d. The submitted plan proposes no impact to Wetlands B & C due to careful consideration during the design process. These areas will be fenced off and undisturbed, but 100' of distance could not be maintained due to the location of the wetlands relative to the well pad. Alternative locations were considered but were not feasible as described above. Impact to Wetland D and Stream 2 are unavoidable in order to access the site, but impacts have been minimized to the extent practicable. The existing Joy Run Road bed was utilized to minimize environmental impacts of new road construction. Material stockpiles were located away from environmentally sensitive areas.

PRELIMINARY

10:48:03 AM K:\CN\Work\2015\2106-8-1-VTN\Prelim\Prelim.dwg (ALT B) 2/15/2016 1:50:00



LEGEND

- | | | |
|------------------------|--------|--------------------------------------|
| EXISTING TREE LINE | 1/100 | EXISTING INDEX CONTOUR LINE (10') |
| EXISTING ROAD | 1/100 | EXISTING INTERMEDIATE CONTOUR LINE |
| EXISTING RIGHT-OF-WAY | 1/400 | PROPOSED INDEX CONTOUR LINE (10') |
| PROPOSED RIGHT-OF-WAY | 1/400 | PROPOSED INTERMEDIATE CONTOUR LINE |
| PROPERTY LINE | | CHANNEL FLOW DIRECTION |
| PROPOSED FENCE | | STREAM |
| EXISTING FENCE | | DELINEATED STREAM |
| EXISTING ELECTRIC LINE | | DELINEATED WETLAND BOUNDARY |
| EXISTING GAS LINE | | "TODDWAY" BOUNDARY |
| PROPOSED GAS LINE | | COMPOST FILTER SOAK (CFS) |
| PROPOSED WATER LINE | | TRIPLE CFS STACK / CFS SEDIMENT TRAP |
| FILL LIMITS | 1/400 | EXISTING SPOT ELEVATION |
| CUT LIMITS | 1/400 | PROPOSED SPOT ELEVATION |
| TCE BENCH WITH DRAIN | X 1252 | EXISTING STRUCTURE |
| ROADWAY CENTERLINE | | |
| SAFETY BERM | | |
| LIMITS OF DISTURBANCE | | |
| EXISTING UTILITY POLE | | |

SCALE: 0 150'

ALT B PARTWORKS	ALT A ENTRANCES	ALT A PARTWORKS
TOTAL PAD CUT: 109,862 CY	TOTAL PAD CUT: 11,885 CY	TOTAL PAD CUT: 122,066 CY
TOTAL ROAD CUT: 39,748 CY	TOTAL ROAD CUT: 39,748 CY	TOTAL ROAD CUT: 16,895 CY
TOTAL CUT: 149,610 CY	TOTAL CUT: 158,634 CY	TOTAL CUT: 138,961 CY
TOTAL SWELLED CUT: 163,274 CY	TOTAL SWELLED CUT: 170,108 CY	TOTAL SWELLED CUT: 146,973 CY
TOTAL FILL: 106,648 CY	TOTAL FILL: 99,382 CY	TOTAL FILL: 23,189 CY
TOTAL EXCESS: 66,962 CY	TOTAL EXCESS: 71,726 CY	TOTAL EXCESS: 123,103 CY

*ASSUMED 10% SWELL FACTOR

*ASSUMED 10% SWELL FACTOR

*ASSUMED 10% SWELL FACTOR

DATE: 2/15/2016	TIME: 1:50:00
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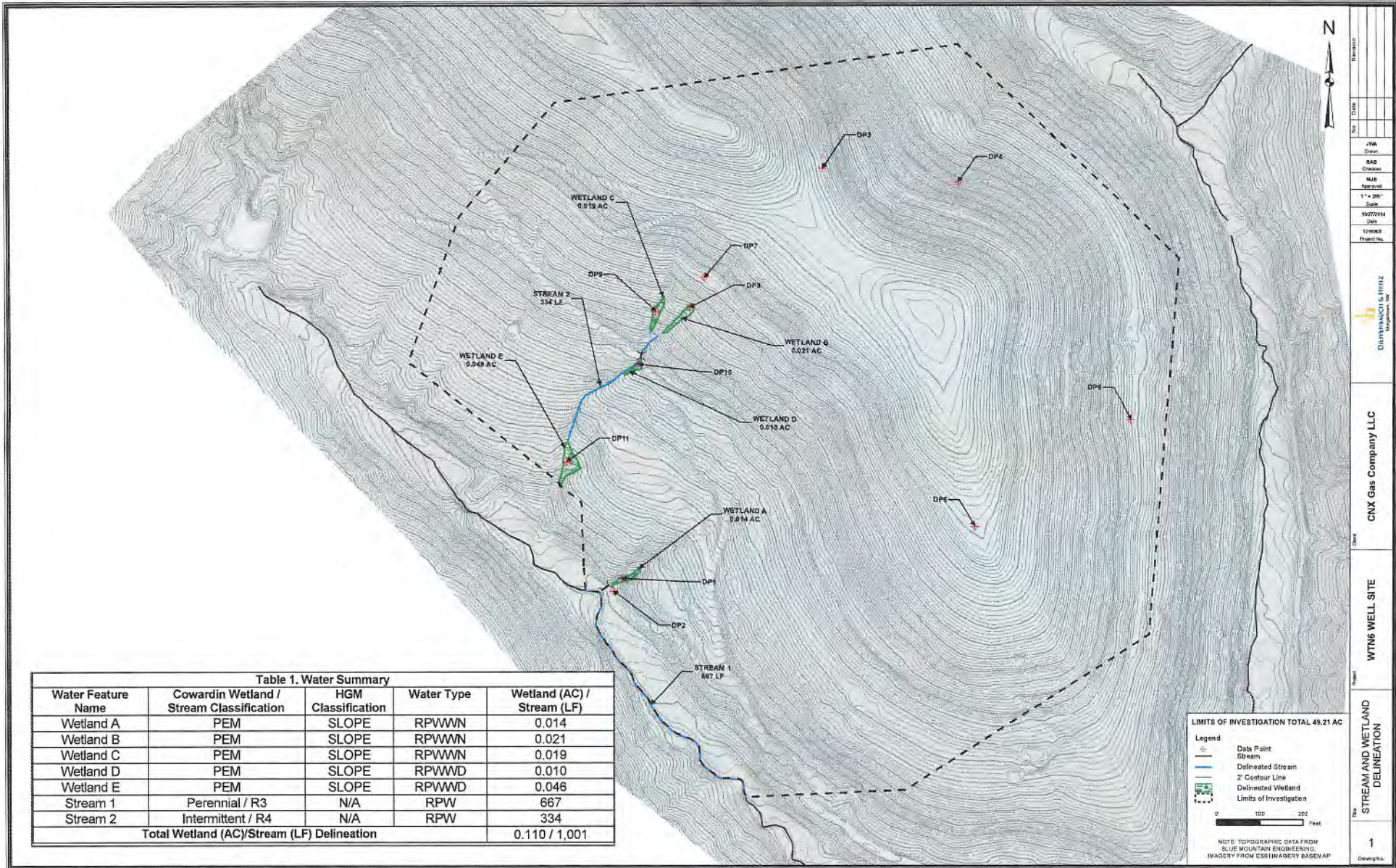
DIEFFENBAUGH & HIRTZ, LLC
1099 Chain Hook Road, Suite 201
Plaquemine, Louisiana 70754
P: 504.943.5333 F: 504.943.5337

CONTRACTOR
CANX GAS COMPANY LLC

SITE
WDTB-8 WELL SITE

PROJECT
PRELIMINARY SITE PLAN
ALT B LOCATIONS

SHEET
1



Revision	
No.	Date
1	JWA
	Drawn
	BAS
	Checked
	NJB
	Approved
	1" = 200'
	Scale
	10/27/2014
	Date
	130088
	Project No.
Client	CNX Gas Company LLC
Project	WTNS WELL SITE
Sheet	STREAM AND WETLAND DELINEATION
Drawn by	1
Checked by	

Table 1. Water Summary

Water Feature Name	Cowardin Wetland / Stream Classification	HGM Classification	Water Type	Wetland (AC) / Stream (LF)
Wetland A	PEM	SLOPE	RPWWN	0.014
Wetland B	PEM	SLOPE	RPWWN	0.021
Wetland C	PEM	SLOPE	RPWWN	0.019
Wetland D	PEM	SLOPE	RPWWD	0.010
Wetland E	PEM	SLOPE	RPWWD	0.046
Stream 1	Perennial / R3	N/A	RPW	667
Stream 2	Intermittent / R4	N/A	RPW	334
Total Wetland (AC)/Stream (LF) Delineation				0.110 / 1,001

LIMITS OF INVESTIGATION TOTAL 49.21 AC

Legend

- Data Point
- Stream
- Delineated Stream
- 2' Contour Line
- Delineated Wetland
- Limits of Investigation

0 100 200 Feet

NOTE: TOPOGRAPHIC DATA FROM BLUE MOUNTAIN ENGINEERING; IMAGERY FROM ESRI/IMAGERY BASE/APP



Introduction

Environmental Scientists from Dieffenbauch & Hritz (D&H; **Attachment A**) visited the proposed WTN6 Well Site on August 28, 2014 in order to identify streams and/or wetlands located within the limits of investigation (LOI). The LOI, also referred to as the site, includes an approximate 49.21 acre tract of land, which incorporates the limits of disturbance (LOD) of the proposed project, as well as a continuation of these limits to recognizable topographic features and/or property boundaries.

Scope of Services

The purpose of this investigation was to identify the location and extent of waters of the United States (WOUS) and waters of the state (WOS) of West Virginia (WV) within the confines of the site. This report is intended to provide the user with the information required by federal and state agencies to perform a jurisdictional determination (JD). It is also to be utilized as a tool in the planning and design of the project in order to avoid and minimize impacts to these resources.

Methodology

The wetland delineation is performed according to the routine method as described in the *U.S. Army Corps of Engineers' Wetland Delineation Manual, Technical Report Y-87-1 (1987)* and the *2012 Interim Regional Supplement: Eastern Mountains and Piedmont Region (Version 2.0)*. Soil survey information, aerial photographs, floodplain maps, National Wetland Inventory (NWI) maps, topographic maps, and site plans were reviewed prior to the field investigation in order to gain an understanding of potential stream and wetland locations.

The field investigation consists of a site walkover and collection of data at sample plots within the LOI. Sample plots are established where the site ecology changes significantly, or if an area exhibits wetland characteristics. Data from a representative wetland and associated upland sample plot are collected in order to document soil, vegetation, and hydrologic changes that occur throughout the site. In addition, data is collected within representative areas of interest (AOI) in order to document general ecology found within these areas. Descriptions of soils, vegetation, and hydrology are collected at each sample plot location. Data collected at each sample plot are utilized to complete the Wetland Determination Data Forms which are included in **Attachment B**.

Vegetation is analyzed in the following manner: At sample plots, dominant plant species are visually selected, categorized, and recorded in the order of decreasing dominance. Vegetation within the tree, sapling/shrub, woody vine, and herbaceous stratum is documented. After the dominant plants are listed and categorized, the indicator status of the dominant species is assigned. Plant indicator statuses are obtained from the *Eastern Mountains and Piedmont 2014 Final Regional Wetland Plant List*. By using this method, it is determined if the vegetation is hydrophytic or upland. To determine that hydrophytic vegetation is present, greater than 50 percent of the plant species, in a given community, must be facultative (FAC), facultative wetland (FACW), and/or obligate wetland (OBL), as opposed to being facultative upland (FACU) or upland (UPL), and/or other indicators must be present. A determination is not based on the presence of scattered individuals that do not contribute a controlling influence on the overall plant community.

Each sample plot is analyzed for both primary and secondary indicators of wetland hydrology. Primary indicators of wetland hydrology may include: aquatic fauna, algal mat crust, drift deposits, sediment deposition, water-marks, saturated soils, and inundation. The presence of only one primary indicator is required to establish evidence of wetland hydrology. Secondary indicators may include: surface soil cracks, drainage patterns, crayfish burrows, moss trim lines, and geomorphic position. The presence of two secondary indicators is required to establish evidence of wetland hydrology. Both primary and secondary indicators are apparent in that they are visual observations made on the ground during the field investigation. Evidence of wetland hydrology can also be established using recorded data from monitoring equipment such as stream gauges, monitoring wells and piezometers, or from observed hydrology on aerial photographs and previous investigations. However, recorded data are usually available for only the larger aquatic systems. Therefore, investigators more often rely on the visually confirmed presence of primary and secondary indicators to establish wetland hydrology.

Soils are assessed to determine if hydric soils are present. Indicators of hydric soils may include: organic soils, histic epipedons, sulfidic material, aquic or peraquic moisture regime, reducing soil conditions, soil colors, soil appearing on hydric soils list, or iron and manganese concretions. Under normal circumstances, the investigator relies on field observations to determine if hydric soils are present by manually extracting a soil sample and inspecting the soil profile for color and texture qualities with the aid of a *Munsell Soil Color Book*. The inspector specifically looks for the presence of gleyed soils, soils with bright mottles and/or low matrix chroma, or iron and manganese concretions in the horizon immediately below the A-horizon or 10 inches (whichever is shallower), since these characteristics are generally the most common indicators of hydric soils.

Wetlands, when observed, are demarcated in the field using “Wetland Delineation” survey tape and/or wire flagging. Streams are demarcated using pink and black stripe survey tape. These features and the associated data points are located by utilizing a sub-meter GPS. This data is processed and utilized to create maps through our in-house geographic information system (GIS) platform.

Limiting Conditions

Our scope of services did not include an investigation of rare, threatened, or endangered species, historic structures, archeological sites, hydro-geologic services, or a floodplain study. It is important to note that environmental evaluations are inherently limited in that conclusions are drawn and recommendations are developed from information obtained from limited research and site evaluation. This study is based upon an examination of the habitat conditions of the site at the time of the walkover. It should be understood that habitat conditions are constantly changing and that future investigations could reveal altered conditions. This report describes the results of wetland and stream identifications within the limits of the project as presented to us. Should project limits change, the proximity to delineated resources should be re-evaluated.

Site Location

The site is intersected by Joy Run Road and located north of Camp Run Road (Rd) near Wana in Monongalia County, WV, as shown on the Site Location Map included in **Attachment C**. The following directions are provided to the site from Pittsburgh, Pennsylvania (PA):

- Merge onto I-376 W
- Take exit 64A to merge onto I-79 S toward Washington – go 24.6 miles (mi)
- Take exit 21 to merge onto I-79 S toward Morgantown – go 19.7 mi
- Take exit 19 for US 19 toward PA-221/Ruff Creek/Jefferson – go 0.2 mi
- Turn left onto US-19 S – go 5.4 mi
- Turn left onto W Greene Street (St) – go 0.2 mi
- Turn right onto PA-218 S/S Morgan St – go 13.3 mi
- Continue onto Daybrook Rd – go 0.2 mi
- Turn right onto WV-7 W – go 10.0 mi
- Turn right onto Brown Run – go 0.6 mi
- Continue straight onto Dead Mans Camp Run Rd – go 0.2 mi
- Turn right to destination on Joy Run

Review of Background Information

Available sources of relevant background information were reviewed prior to conducting the field survey. These sources included aerial photographs, U.S. Geological Survey (USGS) topographic maps, NWI maps, Federal Emergency Management Administration (FEMA) Flood Insurance Rate Maps (FIRM), and local soil survey maps.

A topographic map is a large scale detail and representation of relief of a landscape. A topographic map shows both natural and manmade features. D&H utilizes the original USGS topographic map series (1945-1992), as recent digital topographic maps omit important features. The USGS 7.5 minute series topographic map (Wadestown Quadrangle) shows the LOI as located on an unforested ridge with moderate slopes. The Joy Run stream valley passes through the southwestern corner of the LOI. A copy of the map is provided as **Attachment D**.

Aerial imagery is low altitude photography of the landscape provided by both government and private sources. Aerial photographs can be utilized to determine existing land use and ground cover. A 2012 aerial photograph shows the site as predominately vegetated by herbaceous meadows with sparse patchy forested areas scattered throughout the LOI. Several cattle trails are visible in the northwestern portion of the site and branch off within the northern portion of the site. An existing access road extends from the southern boundary of the LOI and terminates near the center of the site. The aerial photograph is included as **Attachment E**.

NWI maps are prepared by stereoscopic analysis of high-altitude aerial photographs. Wetlands are identified based on vegetation, visible hydrology, and topography. NWI maps provide a useful source of background information on potential wetland locations, but should not be relied upon as the only source to determine the presence or absence of wetlands on a site. The NWI map depicting the site does not show wetlands within or immediately adjacent to the LOI. A copy of the NWI map excerpt covering the site is provided as **Attachment F**.

Flood zones are geographic areas defined according to varying levels of flood risk by FEMA. Based on the FIRM depicting the site (Map Number 54061C0050E), the LOI is not located within a 100-year flood hazard area. A FIRM depicting the LOI is enclosed as **Attachment G**.

Soil maps are the result of a soil survey inventory and typically show only general distribution of soils, accompanied by the soil survey report. A review of the online soil maps provided by the Natural

Resources Conservation Service (NRCS) was performed. The principal mapped soil types within the LOI include: Clarksburg silt loam (CkD), Dormont and Guemsey silt loams (DgC and DgD), and Gilpin-Culleoka-Upshur silt loams (GuF). Review of the soil survey indicates that none of the listed soils are hydric. The soil survey map and detailed soil unit information is included as **Attachment H**.

Site Ecology

The site is located near Wana in northern Monongalia County, WV. The site is intersected by Joy Run Rd, which enters the LOI from the southern boundary and terminates within the LOI. The general site topography consists of ridges sloping to the northeast and southwest of the LOI. Surface water at the site flows indirectly into the Monongahela River, a traditionally navigable water (TNW).

The site visit indicated that the majority of the site ecology consists of herbaceous meadows. The meadows are dominated by red clover (*Trifolium pretense*) and tall goldenrod (*Solidago altissima*). Photographs of the site are included as **Attachment I**.

Delineation Results

The *U.S. Army Corps of Engineers' (USACE) Wetland Delineation Manual, Technical Report Y-87-1 (1987)* defines a wetland as an area characterized by hydrophytic vegetation, wetland hydrology, and hydric soils. Evidence of each of these three parameters must be present to identify an area as a wetland. On this basis, five palustrine emergent (PEM) wetlands were identified within the LOI. In addition, one intermittent stream and one perennial stream were identified within the LOI. The delineated features within the LOI are considered WOUS and WOS of WV. The delineated wetlands and streams and are individually discussed below. Mapping of wetlands and streams, as well as associated data point locations, are included as **Attachment J** (Limits of Delineation Plan).

Wetland A (0.014 acres, DP1, Photographs 1 and 2) is a PEM wetland located in the southwestern portion of the LOI. Vegetation in the wetland is dominated by jewelweed (*Impatiens capensis*), common boneset (*Eupatorium perfoliatum*), and arrowleaf tearthumb (*Persicaria sagittata*). The composition of hydrophytic plant species in this wetland is 100 percent, thereby meeting the USACE criterion for wetland vegetation. The soil in Wetland A exhibits a depleted matrix with prominent redoximorphic concentrations starting at the soil surface. These characteristics are evidence that the soil in the wetland is saturated and/or inundated for a duration sufficient to promote anaerobic conditions, thereby meeting the depleted matrix hydric soil criterion. Wetland hydrology is provided by a seasonal high water table, precipitation, and overland flow from the surrounding uplands. At the time

of the field investigation, the soil was saturated to the surface and a high water table was present to the surface. Free water at the surface (FWAS) was observed throughout the wetland. These findings demonstrate that this site has sufficient saturation and/or inundation during the growing season to satisfy the wetland hydrology criterion. Wetland A (RPWWN) lies adjacent to Stream 1, indirectly exhibiting a significant nexus to the Monongahela River, and is therefore considered a WOUS and WOS of WW.

Wetland B (0.021 acres, DP8, Photographs 9 and 10) is a PEM wetland located in the northwestern portion of the LOI. Vegetation in the wetland is dominated by common boneset and rice cutgrass (*Leersia oryzoides*). The composition of hydrophytic plant species in this wetland is 100 percent, thereby meeting the USACE criterion for wetland vegetation. The soil in Wetland B exhibits a gleyed matrix with prominent redoximorphic concentrations starting at the soil surface. These characteristics are evidence that the soil in the wetland is saturated and/or inundated for a duration sufficient to promote anaerobic conditions, thereby meeting the loamy gleyed matrix hydric soil criterion. Wetland hydrology is provided by a seasonal high water table, precipitation, and overland flow from the surrounding uplands. At the time of the field investigation, FWAS was observed throughout the wetland. These findings demonstrate that this site has sufficient saturation and/or inundation during the growing season to satisfy the wetland hydrology criterion. Wetland B (RPWWN) lies adjacent to Stream 2, indirectly exhibiting a significant nexus to the Monongahela River, and is therefore considered a WOUS and WOS of WW.

Wetland C (0.019 acres, DP9, Photographs 11 and 12) is a PEM wetland located in the northwestern portion of the LOI. Vegetation in the wetland is dominated by common boneset and rice cutgrass. The composition of hydrophytic plant species in this wetland is 100 percent, thereby meeting the USACE criterion for wetland vegetation. The soil in Wetland C exhibits a gleyed matrix with prominent redoximorphic concentrations starting at the soil surface. These characteristics are evidence that the soil in the wetland is saturated and/or inundated for a duration sufficient to promote anaerobic conditions, thereby meeting the loamy gleyed matrix hydric soil criterion. Wetland hydrology is provided by a seasonal high water table, precipitation, and overland flow from the surrounding uplands. At the time of the field investigation, the soil was saturated to the surface and FWAS was observed throughout the wetland. These findings demonstrate that this site has sufficient saturation and/or inundation during the growing season to satisfy the wetland hydrology criterion. Wetland C (RPWWN) lies adjacent to Stream 2, indirectly exhibiting a significant nexus to the Monongahela River, and is therefore considered a WOUS and WOS of WW.

Wetland D (0.010 acres, DP10, Photographs 13 and 14) is a PEM wetland located in the west-central portion of the LOI. Vegetation in the wetland is dominated by shallow sedge (*Carex lurida*), harvestlice (*Agrimonia parviflora*), and rice cutgrass. The composition of hydrophytic plant species in this wetland is 100 percent, thereby meeting the USACE criterion for wetland vegetation. The soil in Wetland D exhibits a depleted matrix starting at the soil surface. This characteristic is evidence that the soil in the wetland is saturated and/or inundated for a duration sufficient to promote anaerobic conditions, thereby meeting the depleted matrix hydric soil criterion. Wetland hydrology is provided by a seasonal high water table, precipitation, and overland flow from the surrounding uplands. At the time of investigation, soil saturation was present to the surface and FWAS was observed. These findings demonstrate that the site has sufficient saturation and/or inundation during the growing season to satisfy the wetland hydrology criterion. Wetland D (RPWWD) abuts Stream 2, indirectly exhibiting a significant nexus to the Monongahela River, and is therefore considered a WOUS and WOS of WV.

Wetland E (0.046 acres, DP11, Photographs 15 and 16) is a PEM wetland located in the western extent of the LOI. Vegetation in the wetland is dominated by common rush (*Juncus effusus*), rice cutgrass, and harvestlice. The composition of hydrophytic plant species in this wetland is 100 percent, thereby meeting the USACE criterion for wetland vegetation. The soil in Wetland E exhibits a gleyed matrix starting at the soil surface. This characteristic is evidence that the soil in the wetland is saturated and/or inundated for a duration sufficient to promote anaerobic conditions, thereby meeting the loamy gleyed matrix hydric soil criterion. Wetland hydrology is provided by a seasonal high water table, precipitation, and overland flow from the surrounding uplands. At the time of the field investigation soil saturation was present to the surface and FWAS was observed. These findings demonstrate that this site has sufficient saturation and/or inundation during the growing season to satisfy the wetland hydrology criterion. Wetland E (RPWWD) abuts Stream 2, indirectly exhibiting a significant nexus to the Monongahela River, and is therefore considered a WOUS and WOS of WV.

Stream 1 (Photograph 17) (Joy Run) is a perennial relatively permanent water (RPW) located along the southwestern boundary of the LOI. Hydrology is provided by precipitation, runoff from the surrounding uplands and wetlands, and a seasonal high water table. The stream ordinary high water mark (OHWM) is six inches deep, two to three feet wide, and the stream substrate consisted of silt/cobble. At the time of the investigation, the water depth was approximately two inches. Stream 1 flows 667 linear feet within the confines of the LOI. Stream 1 indirectly exhibits a significant nexus with the Monongahela River and is therefore considered a WOUS and WOS of WV.

Stream 2 (Photograph 18) is an intermittent RPW located in the western portion of the LOI. Hydrology is provided by precipitation, runoff from the surrounding uplands and wetlands, and a seasonal high water table. The stream OHWM is two feet wide and three inches deep, and has a silt/cobble substrate. At the time of the investigation, approximately 0.25 inch of water was observed in the stream. Stream 2 flows 334 linear feet within the confines of the LOI, before dispersing into Wetland E. The stream indirectly exhibits a significant nexus with the Monongahela River and is therefore considered a WOUS and WOS of WW.

The following table summarizes the delineated wetlands and streams:

Water Feature Name	Cowardin Wetland / Stream Classification	HGM Classification	Water Type	Wetland (AC) / Stream (LF)
Wetland A	PEM	SLOPE	RPWWN	0.014
Wetland B	PEM	SLOPE	RPWWN	0.021
Wetland C	PEM	SLOPE	RPWWN	0.019
Wetland D	PEM	SLOPE	RPWWD	0.010
Wetland E	PEM	SLOPE	RPWWD	0.046
Stream 1	Perennial / R3	N/A	RPW	667
Stream 2	Intermittent / R4	N/A	RPW	334
Total Wetland (AC)/Stream (LF) Delineation				0.110 / 1,001

Conclusions

The stream and wetland delineation identified five PEM wetlands, one perennial stream, and one intermittent stream within the LOI. The delineated features within the LOI are considered WOUS and WOS of WW.

Only the USACE can make final determinations regarding Section 404 jurisdiction and permitting requirements. Although a jurisdictional determination is not required, D&H recommends written concurrence be obtained from the USACE/Pittsburgh District regarding the results and conclusions of this delineation. If wetlands are determined by the USACE to be isolated, and therefore outside of USACE jurisdiction, verification of this information must be provided to the WV Department of Environmental Protection (DEP). The WV DEP has the authority to assert jurisdiction over isolated wetland features and permit impacts to these resources accordingly.

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: CNX Gas Company, LLC 494458046 Monongalia Battelle Wadestown
Operator ID County District Quadrangle

2) Operator's Well Number: WDTN6CHSM Well Pad Name: WDTN6

3) Farm Name/Surface Owner: Consol Public Road Access: Joy Run Road CR 4/3

4) Elevation, current ground: 1400 Elevation, proposed post-construction: 1377.5

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal

6) Existing Pad: Yes or No No

MDK 5/1/2019

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target formation is Marcellus Shale @ 7913'-8000' TVD, 87' thick, expected formation pressure ~4600 psi

8) Proposed Total Vertical Depth: 7965' TVD at TD (dependent upon formation dip)

9) Formation at Total Vertical Depth: Marcellus Shale (will not penetrate Onondaga)

10) Proposed Total Measured Depth: 14,153' MD at TD

11) Proposed Horizontal Leg Length: 5691'

12) Approximate Fresh Water Strata Depths: Shallowest at ~125' and deepest at ~387'

13) Method to Determine Fresh Water Depths: Depth of bit when water shows in flowline or depth when misting is required

14) Approximate Saltwater Depths: 2378', 2468'

15) Approximate Coal Seam Depths: 789', 1129'

16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	100	100	151 / CTS
Fresh Water	13.375	New	J-55	54.5	1350	1350	938 / CTS
Coal	13.375	New	J-55	54.5	1350	1350	938 / CTS
Intermediate	9.625	New	J-55	36.0	2950	2950	991 / CTS
Production	5.5	New	P-110	20.0	14153	14153	2566 / TOC @ 2750'
Tubing	2.375		J-55	4.7		TBD	N/A
Liners	N/A						

MDK 5/1/2019

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	0.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	0.380	2730	<500	Class A	1.19
Coal	13.375	17.5	0.380	2730	<500	Class A	1.19
Intermediate	9.625	12.25	0.352	3520	<2815	Class A	1.19
Production	5.5	8.75 x 8.5	0.361	12360	~10000 during frac	Class H	1.07
Tubing	2.375	N/A	0.190	7700	N/A	N/A	N/A
Liners	N/A						

PACKERS

Kind:	N/A			
Sizes:				
Depths Set:				

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Construct well pad and access road. Utilize conductor rig to set 20" conductor into solid rock and cement back to surface. MIRU drilling rig. Air drill 17-1/2" hole. Run and cement 13-3/8" fresh water/coal casing. Note that the FW/coal casing will be set just above elevation - the casing will NOT be set below ground level (setting depth to isolate sloughing formations and red beds below the Pittsburgh coal seam). Air drill 12-1/4" hole. Run and cement 9-5/8" intermediate casing. Air drill 8-3/4" production hole to curve KOP (this section is typically directionally drilled with a slant/tangent profile for anti-collision and for lateral spacing). Displace hole with 12.0-13.0 ppg SOBMs. Drill 8-1/2" curve from KOP to landing point. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in Marcellus target window). Perform clean-up cycle to condition well. Run and cement 5-1/2" production casing. Suspend well and skid to next well or RDMO drilling rig.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Run CBL to ~60 degrees in the curve and back to surface to determine production casing TOC. Test production casing and toe prep well. MIRU stimulation/hydraulic fracturing equipment. Fracture well by pumping required number of stages utilizing plug-and-perf method. Max anticipated treating pressure is ~10,000 psi and max anticipated treating pump rate is ~80-90 bpm. Number of stages and stage spacing to be finalized after drilling. After last stimulation stage, drill out frac plugs and clean-out well to PBTD. Flow back and clean-up well. Tie well into production. Run tubing when required.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 29.222) Area to be disturbed for well pad only, less access road (acres): 20.6

23) Describe centralizer placement for each casing string:

Fresh water/coal string: centralize shoe joint and every 3rd joint to surface - utilize bow spring centralizers.
Intermediate string: centralize shoe joint and every 3rd joint to surface - utilize bow spring centralizers.
Production string: centralize every joint from shoe to KOP and then every 3rd joint from KOP to TOC - utilize single piece/rigid bow centralizers. Actual centralizer placement may be changed based on hole conditions.

24) Describe all cement additives associated with each cement type:

Fresh water/coal string: Class A cement with 1%-3% CaCl₂ and 1/4 pps cello-flake/LCM. Intermediate string: Class A cement with 0%-2% CaCl₂ and 1/4 pps cello-flake/LCM. Production string: Class H cement or Class H: Poz blend with dry blend and/or liquid additives including retarder, suspension agent, gas block, defoamer, fluid loss control, extender, dispersant, anti-settling agent. Actual cement blends may vary slightly depending upon cementing service company utilized.

25) Proposed borehole conditioning procedures:

Air sections are typically vertical holes - will ensure the hole is clean at section TD prior to TOOH to run casing (may require mist and/or soap to clean the hole). For the production hole - once at TD, circulate at max flowrate with max rotation until the shakers clean-up (typically requires multiple bottoms-up). For the production casing - once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.

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*Note: Attach additional sheets as needed.

WDTN6 Cement Additives

Fresh water/coal string: Class A cement with 1%-3% CaCl₂ and 1/4 pps cello-flake/LCM. Intermediate string: Class A cement with 0%-2% CaCl₂ and 1/4 pps cello-flake/LCM. Production string: Class H cement or Class H:Poz blend with dry blend and/or liquid additives including retarder, suspension agent, gas block, defoamer, fluid loss control, extender, dispersant, anti-settling agent. Actual cement blends may vary slightly depending upon cementing service company utilized.

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DRILLING WELL PLAN
WDTN-6C-HSM (Marcellus HZ)
Marcellus Shale Horizontal
Monongalia County, WV

		WDTN-6C-HSM SHL				N 438458.27, E 1756056.75 (NAD27)						
Ground Elevation	1378' GL Elevation				WDTN-6C-HSM LP				N 439475.89, E 1756313.76 (NAD27)			
Azimuth	313.5°				WDTN-6C-HSM BHL				N 443328.74, E 1752268.6 (NAD27)			

WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	26"	20" L/S	Conductor	100	100	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil
	17-1/2"	13-3/8" 54.5# J-55 BTC	Shallowest Fresh Water		125	AIR / FW Mist	15.6 ppg Class A + 1% to 3% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface	Centralize every 3rd joint from shoe to surface Bow spring centralizers	Ensure the hole is clean at section TD	Set through fresh water zones Set through coal zones Cemented to surface 13-3/8" shoe NOT to be set deeper than ground level
			Deepest Fresh Water		387					
			Waynesburg Coal		789					
			Pittsburgh Coal		1129					
			Red Beds							
			FW/Coal Casing	1350	1350					
	12-1/4"	9-5/8" 36.0# J-55 LTC	Big Lime		2378	AIR / Soap	15.6 ppg Class A + 0% to 2% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface	Centralize every 3rd joint from shoe to surface Bow spring centralizers	Soap the hole as needed and ensure the hole is clean at section TD	Set through potential salt water zones Cemented to surface Casing to be set ~300' below the Big Injun base
			Keener		2438					
			Big Injun		2468					
			Price		2648					
			Intermediate Casing	2950	2950					
	8-3/4" Tangent	5-1/2" 20.0# P-110 BTC	50 Foot		3038	AIR	15.2 ppg Class H 50:50 Class H: Poz with additives (retarder, suspension agent, gas block, defoamer, fluid loss, extender, etc.) 10% OH Excess Yield = 1.07 TOC @ >= 200' above 9-5/8" shoe	Centralize every joint from shoe to KOP - then every 3rd joint from KOP to TOC Single-piece/rigid bow centralizers	Once at TD, circulate at max flowrate with max rotation until shakers clean-up (typically requires multiple bottoms-up) Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement	Note: For all strings, actual centralizer placements may be changed due to hole conditions Note: For all strings, actual cement blends may vary slightly depending upon service company utilized
			Gordon		3098					
			Fifth		3263					
Bayard				3310						
Elks				5248						
Rhinestreet				7365						
Burkett				7747						
Tully				7774						
Hamilton				7810						
Marcellus				7913						
		Production Casing	14153	7965						

LP @ +/- 7965' TVD 8-3/4" x 8-1/2" Hole - Cemented Long String +/- 5681' Lateral TD @ +/- 7965' TVD
 5-1/2" 20.0# P-110 BTC (or modified buttress)

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 Environmental Protection
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4706101849

WDTN6 Pad Frac - SOG Review

In accordance with WVDEP 35CSR8 Section 5.11, all known shallow oil and gas (SOG) wells have been identified within a 500' radius of the WDTN6 pad. Any SOG well that falls within the Area of Review (AOR) has been reviewed and is provided in a list that includes API, Operator, Well Name, Well Number, Status, Formation at TD, Total Depth, and Lat/Long.

The Marcellus Shale of the Wadestown area is found at an approximate True Vertical Depth (TVD) of 8000'. In the Wadestown area, there were very few wells that produced from formations deeper than the Bayard Sand (approximately 3500'). Based on our experience with frac communication and shallow wells, CNX Geology feels that it is highly unlikely for communication to occur with any wells producing in the area above the WDTN6 Pad.

The current hypothesis for SOG Communication is that Marcellus frac fluids and pressure intersect and migrate up a nearby fault that acts as a conduit for upward migration and intersection with high permeability reservoirs of the Alexander and Benson. These reservoirs are not developed in the Wadestown. Geomechanical data is collected from dipole sonic logs. CNX's nearest sonic data is from the NV20CCV well (Figure 2), approximately 20.5 miles north of the WDTN6 pad. Frac modeling (Figure 3) of the Marcellus in the area does not show significant upward frac growth.

Figure 1. 18 wells lie within a 500' buffer around the WDTN6 Pad that penetrate the Big Injun Sand or deeper horizons (highlighted green in the table on page 3). The deepest well is 3740' and produces from the Bayard Sand. No known SOG Communication events have occurred in this area.

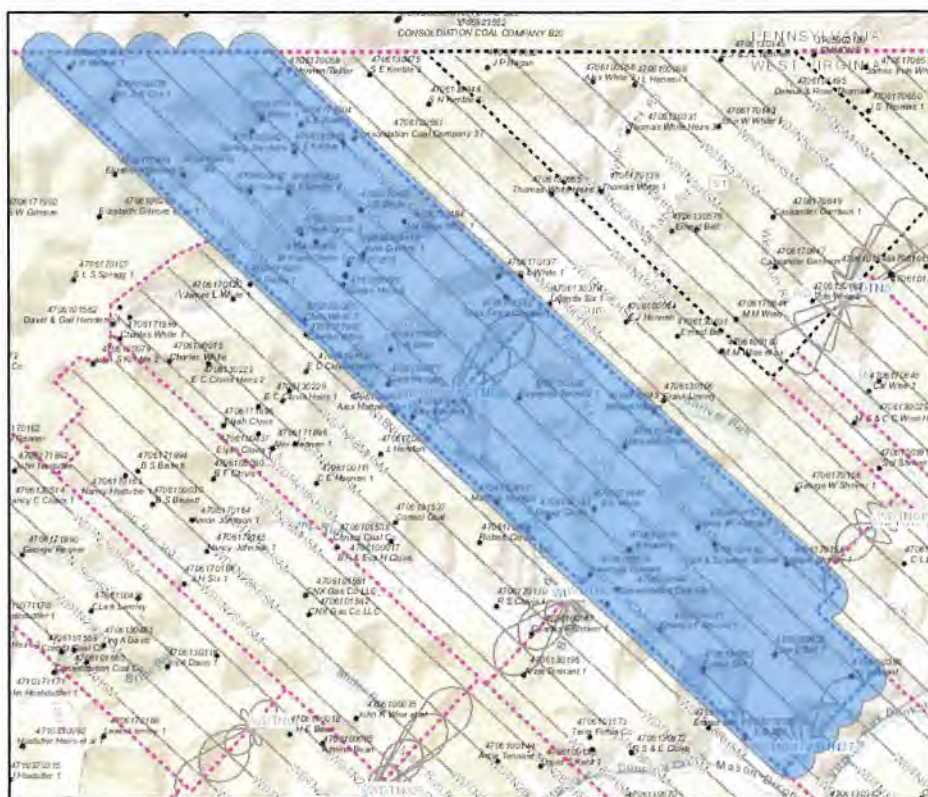


Figure 2. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the Wadestown Area Stress Profile log.

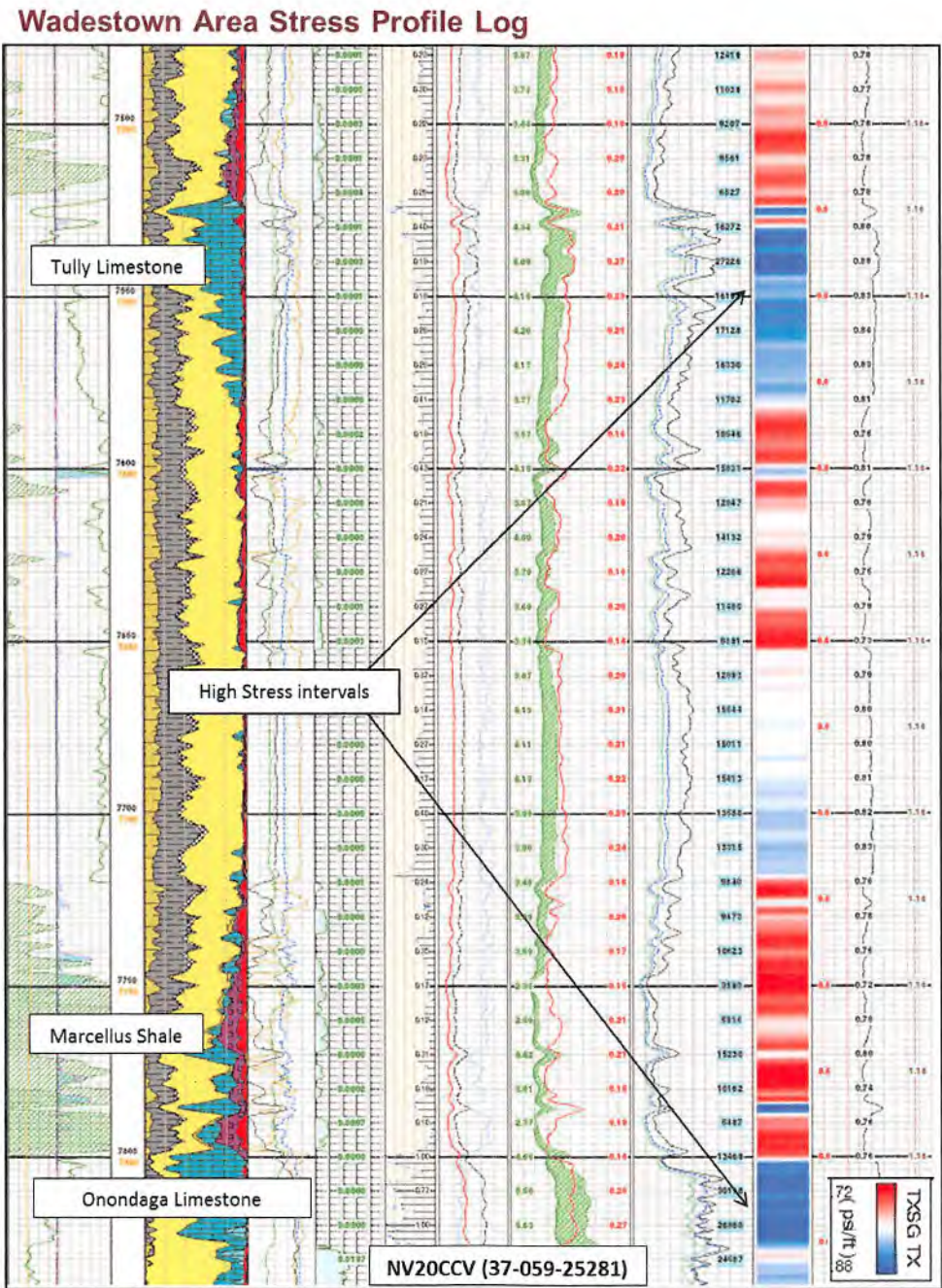
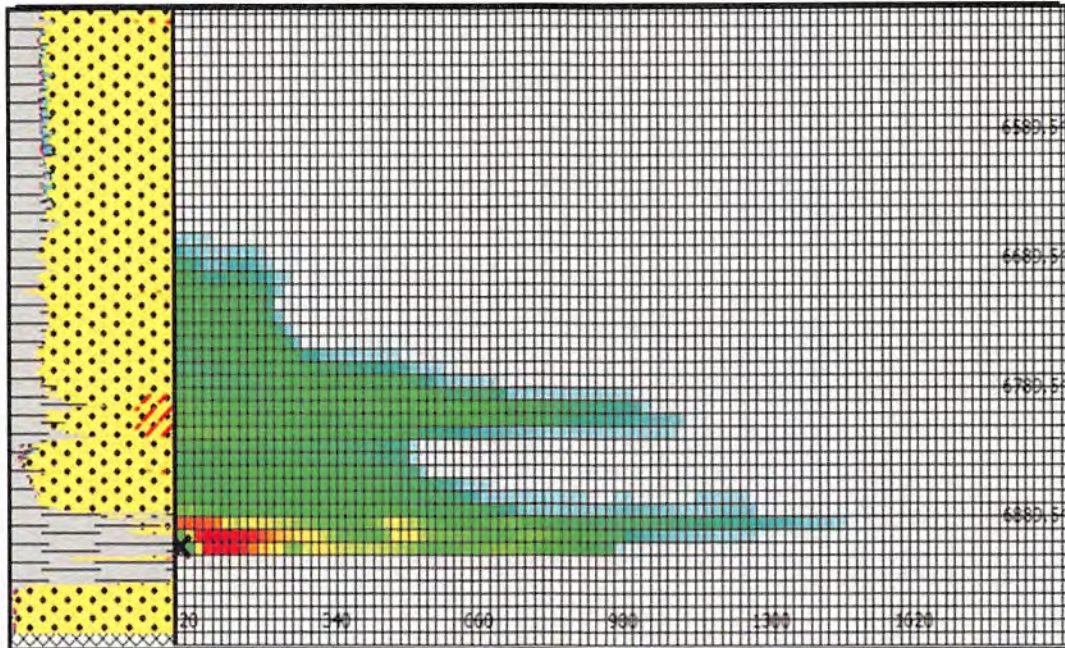


Figure 3. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Hamilton and Tully are much thinner than Wadestown. Frac modeling only yields frac height of approximately 300'.



Frac Simulation of the Oxford area, Doddridge County, WV. Model of 300 stage spacing yields frac height of 260 feet. Tully Limestone (~25'), Tully-Hamilton (~55'), Marcellus-Alexander (1500')



WDTN6 Pad Frac SOG Review / CRSD Review Monday, April 22, 2019

Long	Lat	API	STATE	COUNTY	LATITUDE	LONGITUDE	OPERATOR	STATUS	WELL_NAME	WELL_NO	TD	FMTD	ELEVATION
-80.35143	39.69742	470610041	WV	Monongalia	39.697307	-80.3514437	Oper in Min. owner fld.no code assign(Drphan well pro)	Gas	Charles F Shriver 1	1	3740	Bayard	1462
-80.37953	39.71063	470610633	WV	Monongalia	39.7105901	-80.3795352	Oper in Min. owner fld.no code assign(Drphan well pro)	Gas	W Frank Taylor	2	3680	Bayard	1456
-80.36204	39.70109	470610326	WV	Monongalia	39.7008913	-80.3622414	Manufacturers Light & Heat Co.	Gas	Raymond Tennant	1	3604	Bayard	1376
-80.38042	39.71882	470617098	WV	Monongalia	39.7188112	-80.3806306	Hope Natural Gas Company	not available	R V Hennen Taylor		3589	Bayard	1241
-80.34798	39.68518	470613082	WV	Monongalia	39.68503708	-80.3479593	Beren, I. H.	Gas	Ernest Bell	1	3503	Bayard	1244
-80.35259	39.69273	470610145	WV	Monongalia	39.69209211	-80.3537916	A V Company	Gas	E Haines		3471	Fifth	1275
-80.37068	39.71136	470613048	WV	Monongalia	39.7108315	-80.37088174	Oper in Min. owner fld.no code assign(Drphan well pro)	Gas	J N Siles Heirs	1	3448	Bayard	1243
-80.34707	39.69291	470610062	WV	Monongalia	39.69242022	-80.34727433	Manufacturers Light & Heat Co.	Gas	Ins & Susanna Shriver 1		3442	Fifth	1163
-80.36933	39.69072	470610074	WV	Monongalia	39.69042204	-80.36973401	Pittsburgh & WV Gas	Gas	Freeman Tennant		3395	Thirty-foot	1115
-80.38249	39.71104	470610047	WV	Monongalia	39.71022290	-80.38265755	West Penn Oil Co.	Dry	Taylor Heirs	2	3371	Bayard	1286
-80.36985	39.69408	470610983	WV	Monongalia	39.69402705	-80.3699961	Pittsburgh & WV Gas	Gas	Dossu Clovis	1	3366	Bayard	1146
-80.39301	39.71847	470613078	WV	Monongalia	39.71838869	-80.39322539	Oper in Min. owner fld.no code assign(Drphan well pro)	Gas	Mrs S R Cox	1	3363	Fifth	1130
-80.34255	39.68598	470613045	WV	Monongalia	39.68500717	-80.3427071	Pittsburgh & WV Gas	Gas	Ernest Bell	1	3354	Fifth	1279
-80.37817	39.71524	470613059	WV	Monongalia	39.71534308	-80.3793876	Oper in Min. owner fld.no code assign(Drphan well pro)	Gas	S E Kimble	1	3260	Gordon	1240
-80.38620	39.72035	470610184	WV	Monongalia	39.72027385	-80.39640662	Greentree Oil Co.	Oil	A R Fienne	1	3213	Fourth	1183
-80.38238	39.71854	470610042	WV	Monongalia	39.7185204	-80.38280374	Oper in Min. owner fld.no code assign(Drphan well pro)	not available	Dorsey Sr Heirs	1	3205	Big Injun (undiff)	1050
-80.37742	39.71024	470610038	WV	Monongalia	39.71027302	-80.37752852	Paterson, G. & A.	Gas w/ Oil Show	W Frank Taylor	1	3161	Thirty-foot	1236
-80.36567	39.71739	470610161	WV	Monongalia	39.71722806	-80.3817586	Sitson & Giles	not available	Eli White	1	2990	Big Injun (undiff)	1075
-80.37495	39.70889	470610629	WV	Monongalia	39.70881804	-80.37618751	CNX Gas Co. LLC (North)	Methane (CBM)	Edgar A & Soth A Moore	SC-14	1304	Pennsylvania System	1245
-80.37532	39.70769	470610530	WV	Monongalia	39.70769802	-80.37556344	CNX Gas Co. LLC (North)	Methane (CBM)	Edgar A & Soth A Moore		1304	Pennsylvania System	1240
-80.36527	39.68983	470610545	WV	Monongalia	39.68982023	-80.36547395	CNX Gas Co. LLC (North)	Dry Methane (CBM)	Consolidation Coal Co		1210	Pittsburgh coal	1150
-80.35428	39.68953	470610544	WV	Monongalia	39.68977206	-80.35472301	CNX Gas Co. LLC (North)	Methane (CBM)	Consolidation Coal Co		1210	Pittsburgh coal	1144
-80.37602	39.70028	470610065	WV	Monongalia	39.7005636	-80.3770334	Oper in Min. owner fld.no code assign(Drphan well pro)	Dry	Alex Hennen Hrs	1	920	Allegheny Fm	1180
-80.37602	39.70028	470610065	WV	Monongalia	39.7005636	-80.3770334	Oper in Min. owner fld.no code assign(Drphan well pro)	Dry	Alex Hennen Hrs	1	920	Allegheny Fm	1180
-80.36281	39.70391	470610532	WV	Monongalia	39.70686321	-80.363827	CNX Gas Co. LLC (North)	Methane (CBM)	Terra Firma Company		912	Pittsburgh coal	1252
-80.36281	39.70391	470610532	WV	Monongalia	39.70686321	-80.363827	CNX Gas Co. LLC (North)	Methane (CBM)	Terra Firma Company		912	Pittsburgh coal	1252
-80.37520148	39.70825237	470610519	WV	Monongalia	39.70917139	-80.37540295					0		1291
-80.37489	39.7162	470610061	WV	Monongalia	39.7161917	-80.37469391	EQT Production Company		Consolidation Coal Company	37	0		1111
-80.37989	39.70189	470610077	WV	Monongalia	39.70180798	-80.3728921	Pittsburgh & WV Gas	Dry	Clark Hennen		0		1240
-80.37989	39.70189	470610077	WV	Monongalia	39.70180798	-80.3728921	Pittsburgh & WV Gas	Dry	Clark Hennen		0		1240
-80.36723	39.69497	470610637	WV	Monongalia	39.694836	-80.3635305	----- unknown -----	not available	Mahlon Tennant		0		1220
-80.37194	39.70391	470610534	WV	Monongalia	39.70384402	-80.3719532	----- unknown -----	not available	L A Siles		0		1485
-80.37244	39.69791	470610636	WV	Monongalia	39.69737971	-80.37244598	----- unknown -----	not available	L Hennen		0		1392
-80.37004	39.69996	470610635	WV	Monongalia	39.69991498	-80.37003516	Oper in Min. owner fld.no code assign(Drphan well pro)	not available	Alex Hennen 2		0		1192
-80.34678	39.69103	470610159	WV	Monongalia	39.69222228	-80.3477941	Philadelphia Company, The	not available	Jasper Shriver	1	0		1087
-80.344767	39.69183	470610160	WV	Monongalia	39.69187205	-80.34496781	Philadelphia Company, The	not available	E B Bell		0		1078
-80.35267	39.69264	470610428	WV	Monongalia	39.6918321	-80.35416846	Equitable Gas Co.	not available	Margaret Shriver		0		1226
-80.363723	39.69497	470610637	WV	Monongalia	39.694836	-80.36392405	----- unknown -----	not available	Mahlon Tennant		0		1220
-80.36244	39.708124	470610137	WV	Monongalia	39.70804322	-80.36374575	Philadelphia Company, The	not available	Simon L White	1	0		1127
-80.37520148	39.70825237	470610519	WV	Wetzel	39.70917139	-80.37540295	Kidd, Barron	not available	Santee Heirs	6	0		1251
-80.37520148	39.70825237	470610519	WV	Wetzel	39.70917139	-80.37540295	Kidd, Barron	not available	Santee Heirs	6	0		1251
-80.356216	39.69426	470610641	WV	Monongalia	39.69454511	-80.35641722	Philadelphia Oil Co.	not available	S S White		0		1118
-80.37794	39.70391	470610634	WV	Monongalia	39.70383402	-80.3779532	----- unknown -----	not available	L A Siles		0		1485
-80.378552	39.71699	470617804	WV	Monongalia	39.71690911	-80.37853365	----- unknown -----	not available	S E Kimble		0		1210
-80.387555	39.71418	470610439	WV	Monongalia	39.71403791	-80.38776649	Equitable Gas Co.	not available	Six		0		1208
-80.37949	39.71307	470610438	WV	Monongalia	39.71299303	-80.3796962	----- unknown -----	not available	S E Kimble	2	0		1501
-80.37004	39.69996	470610635	WV	Monongalia	39.69991498	-80.37003516	Oper in Min. owner fld.no code assign(Drphan well pro)	not available	Alex Hennen 2		0		1192
-80.37874	39.70554	470610201	WV	Monongalia	39.70548293	-80.3787525	Pittsburgh & WV Gas	not available	Ches White	1	0		1270
-80.338558	39.68478	470610395	WV	Monongalia	39.68459724	-80.33679919	Consolidated Gas Supply Corp	not available	C Tennant		0		1076
-80.35712	39.70028	470610543	WV	Monongalia	39.70020528	-80.35719162	Philadelphia Oil Co.	not available	William Haines		0		1339
-80.37531	39.71604	470610515	WV	Monongalia	39.71602315	-80.37556289	Carnegie Natural Gas Co.	not available	F H Hennen	1	0		1188
-80.374044	39.71205	470610633	WV	Monongalia	39.71197411	-80.3742457	Hope Natural Gas Company	not available	J G White		0		1307
-80.348335	39.69476	470610157	WV	Monongalia	39.69339721	-80.34853635	----- unknown -----	not available	Henry W Haines	1	0		1189
-80.37520148	39.70825237	470610519	WV	Wetzel	39.70917139	-80.37540295	Kidd, Barron	not available	Santee Heirs	4	0		1291
-80.373871	39.709479	470610135	WV	Monongalia	39.70935807	-80.37407257	Carnegie Natural Gas Co.	not available	John G White	1	0		1157

55 wells lie within the 500' buffer of the entire WDTN6 Pad. 18 of them penetrate the Big Injun Sand or deeper stratigraphy. 8 wells are CBM or vent holes associated with GOB production. 29 wells have no Formation or TD information available. Completion reports are not available for these on the WVGES website.

WW-9
(4/16)

API Number 47 - _____
Operator's Well No. WDTN6CHSM

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) Dunkard Creek Quadrangle Wadestown

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: no pits

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
- Underground Injection (UIC Permit Number 47-001-00561, 47-097-01514, 47-097-01613, 34-013-2-0609)
- Reuse (at API Number WDTN18 wells API TBD)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No pits

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical: air from spud/surface to curve kick-off point (KOP)
Horizontal: synthetic oil-based mud (SOBM) from curve KOP to lateral TD

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Bactericide, Polymers, and Weighting Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removal offsite to an approved landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? See attached.

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 *Erika Whetstone*

Company Official (Typed Name) Erika Whetstone

Company Official Title Permitting Manager

Commonwealth of Pennsylvania County of Washington
Subscribed and sworn before me this 24th day of July, 2023

Lori L. Walker
My commission expires February 23, 2023

Notary Public
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

CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 21.0 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

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:

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, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Jaime J Knapp*

Comments: _____

Title: Inspector Date: 5/1/2019

Field Reviewed? Yes No

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Environmental Protection

Disclaimer: Vendors have been approved for the below category by ENV. UPDATED AGREEMENT with MSCM MUST BE CONFIRMED.

USE APPROVED NON-HAZARDOUS WASTE DISPOSAL FACILITIES (VERSION 05-23-2018)

Approved Services (A/B/C Waste)		Gas Specific Waste Streams			Other Accepted Waste Streams									Contact Information
Industrial Landfill	Location	Drill + Cuttings	Waste Liquors	Waste Brines	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sledge	Frangible Asbestos	Non-Frangible Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	
McLean County	Bloomington	IL	X	X		X	X	X	X	X	X		X	
ERC/Coker County	Charlton	IL	X	X		X	X	X	X	X	X		X	
Birch Yard District	Banyard	IL	X	X		X	X	X	X	X	X		X	
Southern Illinois Regional	De Soto	IL				X	X	X	X	X	X		X	
Lee County	Dixon	IL	X	X		X	X	X	X	X	X		X	
Upper Rock Island	East Moline	IL	X	X		X	X	X	X	X	X		X	
Bond County	Greensville	IL	X	X		X	X	X	X	X	X		X	
Illinois	Hannerton	IL	X	X		X	X	X	X	X	X		X	
Land County	LaSalle	IL	X	X		X	X	X	X	X	X		X	
Litchfield-Hillsboro	Litchfield	IL	X	X		X	X	X	X	X	X		X	
Environment	Moria	IL	X	X		X	X	X	X	X	X		X	
Livington	Postlar	IL	X	X		X	X	X	X	X	X		X	
Reese	Roscoe	IL	X	X		X	X	X	X	X	X		X	
Sangamon Valley	Springfield	IL	X	X		X	X	X	X	X	X	X	X	
Beacon Valley	Franklin	KY	X	X		X	X	X	X	X	X		X	
Blue Ridge	Irving	KY	X	X		X	X	X	X	X	X		X	
Morehead	Morehead	KY	X	X		X	X	X	X	X	X		X	
Green Valley	Rush	KY	X	X		X	X	X	X	X	X		X	
Cherokee Run	Bellevue	OH				X	X	X	X	X	X	X	X	
Williams County	Byron	OH				X	X	X	X	X	X		X	
County Environmental	Ceres	OH				X	X	X	X	X	X		X	
Collins	Collins	OH				X	X	X	X	X	X		X	
Carbon-Limestone**	Lovellville	OH	X	X		X	X	X	X	X	X	X	X	
Countywide Landfill**	Rad Star	OH	X	X		X	X	X	X	X	X	X	X	
Lorain County	Obetz	OH				X	X	X	X	X	X		X	
Oakland Marsh	Shiloh	OH				X	X	X	X	X	X		X	
Imperial	Imperial	PA				X	X	X	X	X	X		X	
Conestoga	Morgantown	PA				X	X	X	X	X	X		X	
Branchburg	Lawrenceville	VA				X	X	X	X	X	X		X	
King and Queen	Little Plymouth	VA				X	X	X	X	X	X		X	
Old Dominion	Richmond	VA				X	X	X	X	X	X		X	
Sycamore	Harrison	WV				X	X	X	X	X	X		X	
Short Creek	Whodine / Short Creek	WV	X	X		X	X	X	X	X	X		X	
Catawba Valley	Clayton Hill	TN				X	X	X	X	X	X		X	

317-921-1667 or 480-627-2700
1-800-654-0215

Jack Palermo:
work: 330-386-8013
cell: 330-806-9660

Barbara Hummer:
work: 330-536-8013 x 120
cell: 330-423-7267

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Waste Management Industrial Landfills		Gas Specific Waste Streams			Other Accepted Waste Streams								Contact Information
Landfill	Location	Drill * Cuttings	Waste Liquors	Waste Sludge	Contaminated Soil (Excluding Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Frishly Asbestos	Non-Frishly Asbestos	Process Waste	Solidification Services	
Adams Landfill	Washington	PA	X	X		X	X	X	X		X	X	X
South Hills (Amos)	South Falls	PA	X	X		X	X	X	X		X	X	X
Kelly Run	Blaineth	PA	X	X		X	X	X	X		X	X	X
Yale Landfill	Kyrin	PA	X	X		X	X	X	X	X	X	X	X
Hyverson Landfill	Blaineth	PA	X	X		X	X	X			X	X	X
Charleston Landfill	Charleston	WV	X	X		X	X	X			X		X
(Kearney) Landfill	Bridgeton	WV	X	X		X	X	X	X	X	X	X	X
Northwestern Landfill	Fairfax	WV	X	X		X	X	X			X	X	X
SES Collins Landfill	Chesapeake	WV	X	X		X	X	X			X	X	X
American Landfill	Waynesburg	OH	X	X		X	X	X	X	X	X	X	X
Suburban REP	Glenford	OH	X	X		X	X	X	X	X	X	X	X
Cochran Landfill***	Cochran	OH	X	X		X	X	X			X		X
Albion Landfill	New Springfield	OH	X	X		X	X	X			X		X

Scott Allen: 412-604-2236

Felix Landolt: 262-532-8001
John Miller: 1-800-963-4776

Additional Landfills		Gas Specific Waste Streams			Other Accepted Waste Streams								Costs of Information
Landfill	Location	Drill * Cuttings	Waste Liquors	Waste Sludge	Contaminated Soil (Excluding Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Frishly Asbestos	Non-Frishly Asbestos	Process Waste	Solidification Services	
Westoverland Waste (WWLC Group)	111 Corner Lane, Belle Vernon, PA 15012	PA	X	X		X	X	X	X	X		X	X
MAX Environmental (Baker, Paoli)	200 Max Drive, Duquesne, PA 15016	PA	X	X		X	X	X				X	X
MAX Environmental (Yates Facility)	233 MAX Lane, Yates, PA 16898	PA	X	X		X	X	X				X	X
Apex Sanitary Landfill (Apex Environmental)	11 County Road 78, Ashtabula, Ohio 43903	OH	X	X		X	X	X				X	X
Rumple, Mt. Sterling (Ramirez Consultants)	30 Larison Rd, Jeffersonville, KY 40337	KY	X	X		X	X		X	X			X
Loyal Ridge Landfill (Waste Connections of KY)	3612 E State Highway 592, Liberty, KY 40740	KY	X	X		X	X		X	X	X		X
Advanced Disposal	Chestnut Valley 1184 McClintown Rd, McClintown, PA 15828	PA	X	X		X	X	X					X
	Greentree Landfill: 635 Toby Rd; Keosau, PA	PA	X	X		X	X	X					X
	Metzler Landfill: 7035 Olander Pike Rd; Somerset, PA	PA	X	X		X	X	X					X

Mike Home: 412-552-4427
Mark Thomas: 724-929-7694

Carl Spadaro: 412-343-4900
cell: 412-443-9789

Joe Telerick: 740-275-2887
jot@ole-comm.com

Carl Walter: 513-623-2471

Bruce Crouch: Work: 606-864-7996
Cell: 606-219-0261

Tony Labomo
6184 Route 219, Brockway, PA 15824
814-390-9905

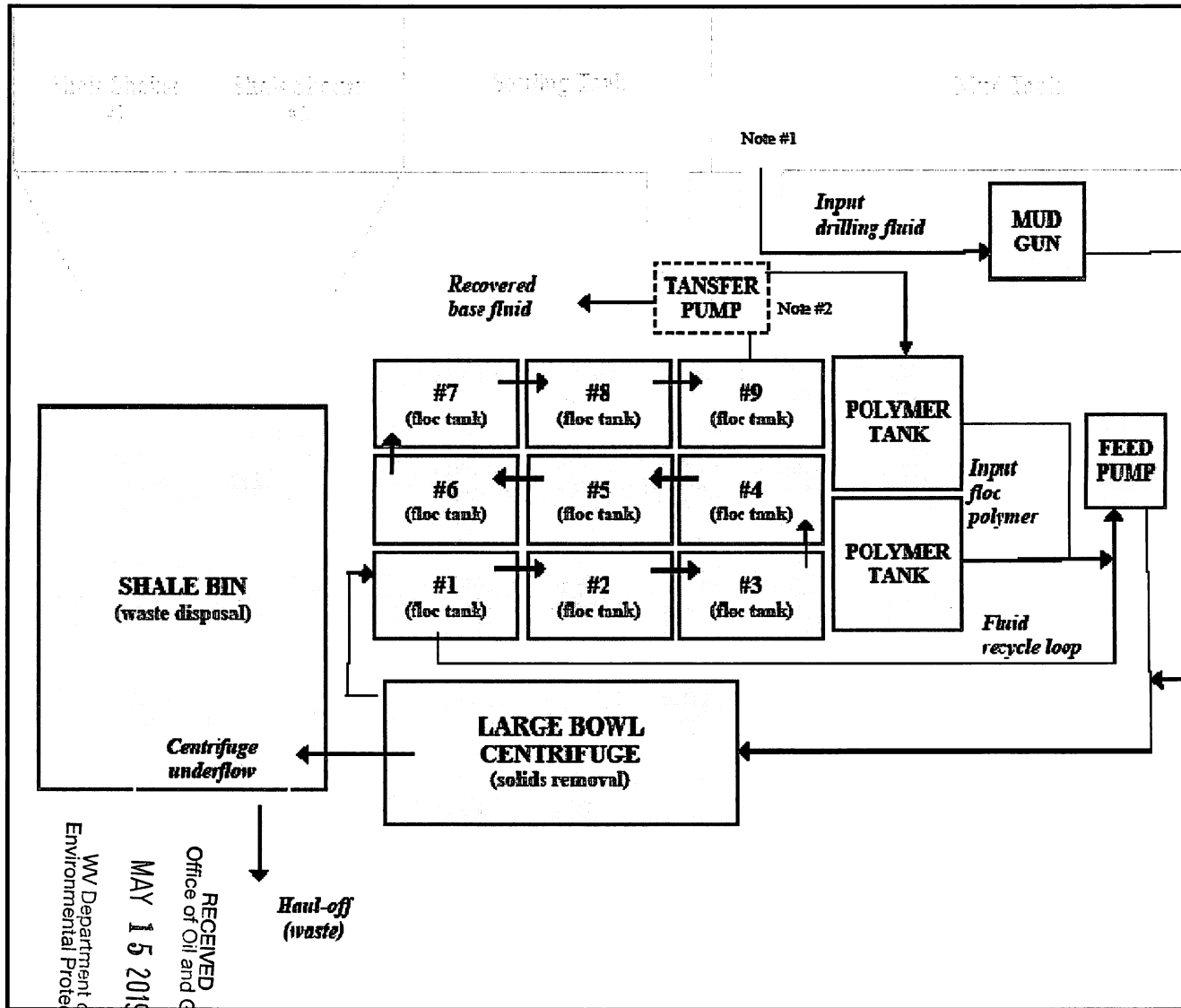
Ohio "TENORM" - requires Radium 226/228 analysis by land before leaving the well pad. Solid waste landfills in Ohio can only accept TENORM waste with combined concentration less than 5 picocuries per gram above the natural background level.
Accepts drilling wastes but profile for disposal is not currently completed.
Waste stream accepted by facility.
Waste stream is not or may not be accepted by facility. Contact facility directly to verify waste streams accepted.
New PADRP rules regarding "TENORM" testing requirements are pending.
* Drill Cuttings include fine sand for the purpose of this table (Contact facility directly to verify waste streams accepted).

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FLOW CHART MUD AND SLURRY DEWATERING RECOMMENDED RIG UP



- Notes/ Comments:
- 1) Ensure all rig tank suction fittings are 6" for ideal flow. **DO NOT** use anything less than 4" dia.
 - 2) Use a Transfer Pump in Cell 9 to transfer clean fluid.

MUD & SLURRY DEWATERING/ STRIPING
Recommended Rig-Up of BOS III Tank

Drawing/ Revision Date: December 12, 2011

Approved By: Andrew Pow



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Site Safety Plan for Well WDTN6CHSM CNX Gas Company, LLC.



Office of Oil and Gas

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Approval Sheet

4706101849

The Office of Oil and Gas and the Oil and Gas Conservation Commission have set forth minimum requirements for necessary equipment and procedures that must be addressed in a Safety Plan ("Plan") and shall be submitted and approved prior to drilling a deep well. A deep well shall be any well which meets the definition as provided for in Chapter 22C, Article 9 of the West Virginia Code.

A site specific Safety Plan must be submitted with each deep well application or no later than one week prior to spudding. Approved Plans shall be maintained and available at the drilling rig at all times.

The Office of Oil and Gas must approve all changes and modifications to previously approved plans.

This plan has met the requirements of the Policy Statement Deep Well Drilling Procedures and Site Safety Plan Requirements as set forth by:

West Virginia Division of Environmental Protection, Office of Oil and Gas

And

West Virginia Oil and Gas Conservation Commission.

Approved this day 1 of month MAY, 2019 by

James J. Kintner

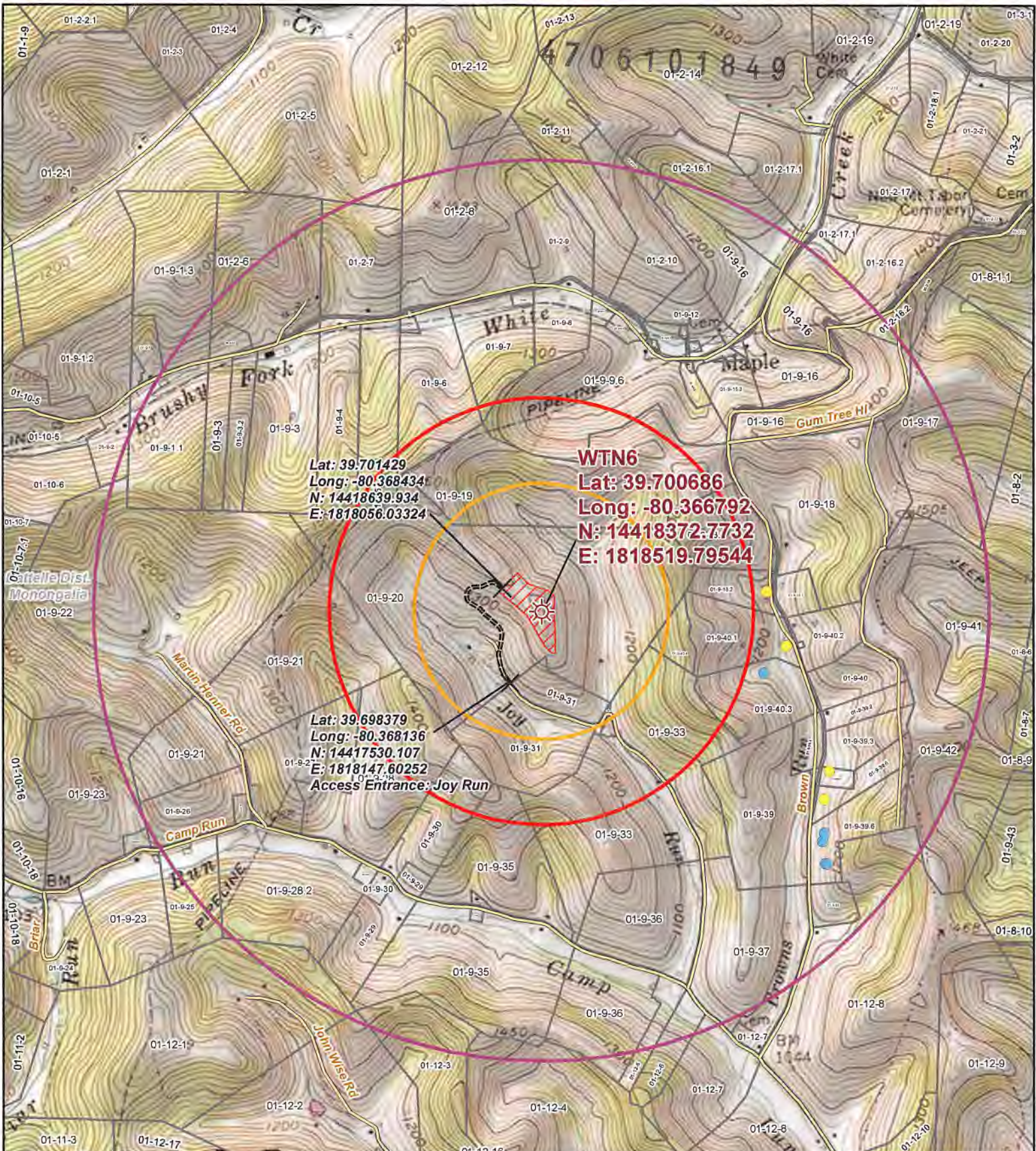
Date: 5/1/2019

Date: _____

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Environmental Protection



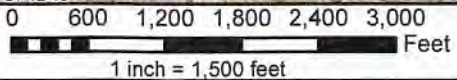
Lat: 39.701429
 Long: -80.368434
 N: 14418639.934
 E: 1818056.03324

WTN6
 Lat: 39.700686
 Long: -80.366792
 N: 14418372.7732
 E: 1818519.79544

Lat: 39.698379
 Long: -80.368136
 N: 14417530.107
 E: 1818147.60252
 Access Entrance: Joy Run

Legend

- Wellbore
- Access Points
- Water Well
- Spring
- Access Road
- 1,000 ft Buffer
- 2,500 ft Buffer
- 1 Mile Buffer
- WDTN6 Pad LOD
- Surface Parcel



Original Date: 4/8/2019

Prepared By: GIS

Revision Date: 4/8/2019

Approved By: GIS

Topographic Well Map
WDTN6

This map is property of CNX Land Resources Inc. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent.
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SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83(M)
 N: 4394726.797
 E: 554286.554
 NAD27 WV NORTH
 N: 438458.274
 E: 1756056.752
 LAT/LON - NAD83
 LAT: 39°42'02.405"
 LON: 80°22'00.425"

APPROXIMATE LANDING POINT

UTM 17 - NAD83(M)
 N: 4395038.136
 E: 554359.687
 NAD27 WV NORTH
 N: 439475.886
 E: 1756313.762
 LAT/LON - NAD83
 LAT: 39°42'12.487"
 LON: 80°21'57.261"

PT. ON AZIMUTH

UTM 17 - NAD83(M)
 N: 4395079.906
 E: 554318.799
 NAD27 WV NORTH
 N: 439615.190
 E: 1756181.880
 LAT/LON - NAD83
 LAT: 39°42'13.851"
 LON: 80°21'58.966"

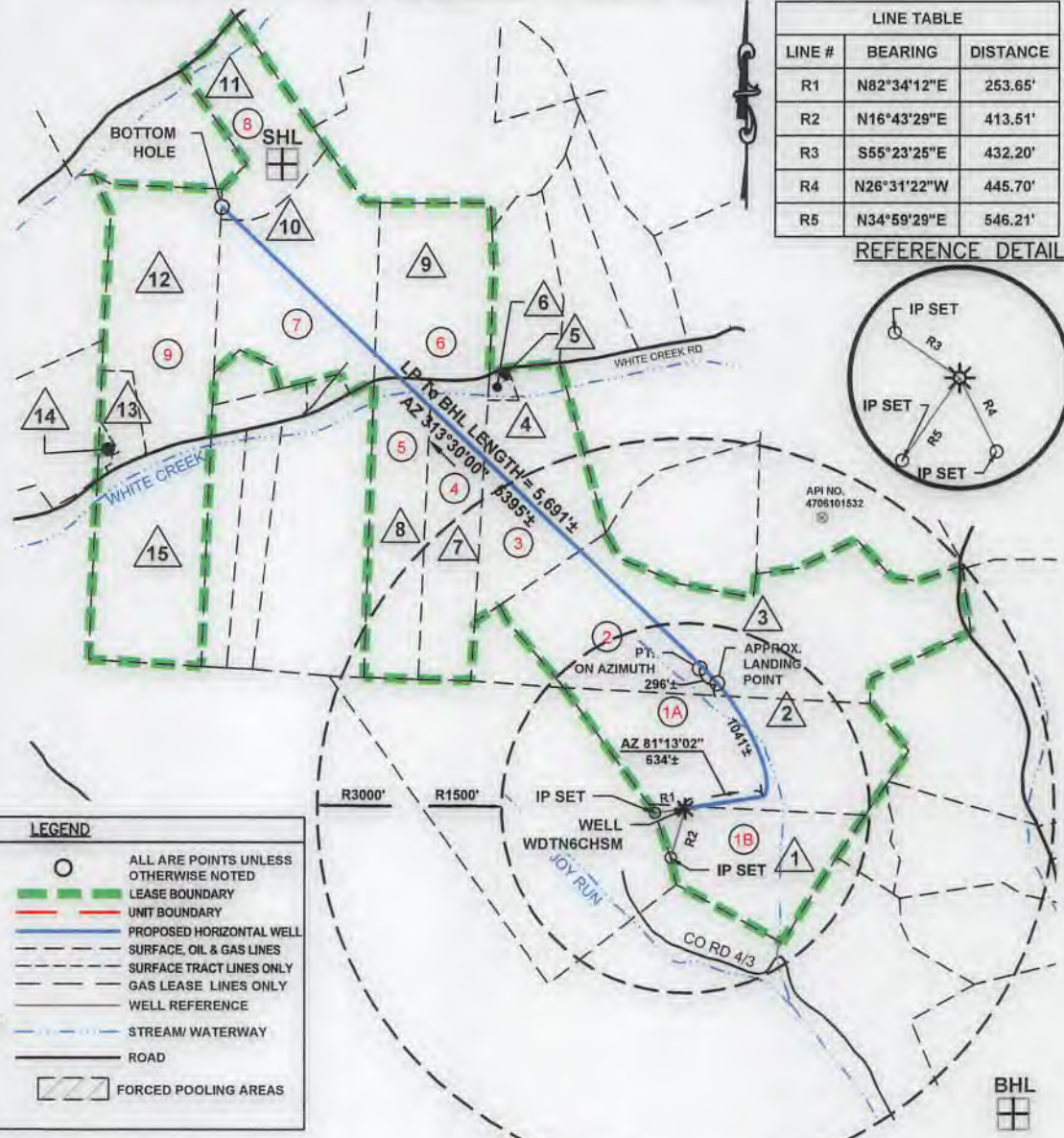
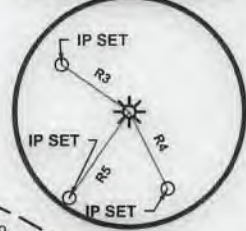
BOTTOM HOLE LOCATION (BHL)

UTM 17 - NAD83(M)
 N: 4396191.398
 E: 553107.703
 NAD27 WV NORTH
 N: 443328.743
 E: 1752268.604
 LAT/LON - NAD83
 LAT: 39°42'50.177"
 LON: 80°22'49.499"

SHL is located on topo map 2,652 feet south of Latitude: 39° 42' 30"
 BHL is located on topo map 12,927 feet south of Latitude: 39° 45' 00"

LINE TABLE		
LINE #	BEARING	DISTANCE
R1	N82°34'12"E	253.65'
R2	N16°43'29"E	413.51'
R3	S55°23'25"E	432.20'
R4	N26°31'22"W	445.70'
R5	N34°59'29"E	546.21'

REFERENCE DETAIL



LEGEND

	TOPO MAP POINT		ALL ARE POINTS UNLESS OTHERWISE NOTED
	PROPOSED WELL		LEASE BOUNDARY
	WATER SOURCE		UNIT BOUNDARY
	SPRING		PROPOSED HORIZONTAL WELL
	SURFACE TRACT		SURFACE OIL & GAS LINES
	LEASED NUMBER BASED ON ATTACHED WDTN6C		SURFACE TRACT LINES ONLY
	RECORD GAS WELL		GAS LEASE LINES ONLY
	UNKNOWN WELL		WELL REFERENCE
	STREAM/WATERWAY		ROAD
	FORCED POOLING AREAS		

- NOTES:**
- There are no water wells or developed springs within 250' of proposed well.
 - There are no existing buildings within 625' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

Sheffler & Company, Inc.
 ENGINEERING • SURVEYING

1712 Mount Nebo Road Phone: 412-219-4509
 Sewickley, PA 15143 Email: info@shefflerCo.com

SHL is located on topo map 9,446 feet west of Longitude: 80° 20' 00"
 BHL is located on topo map 1,486 feet west of Longitude: 80° 22' 30"

FILE #: WDTN6CHSM
 DRAWING #: 3601 - WDTN6C.DWG
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: USGS MONUMENT JX1864: 1,496.32'

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 ENVIRONMENTAL PROTECTION.

SIGNED: [Signature]
 R.P.E.: _____ L.L.S.: P.S. NO. _____



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep Gas Liquid Injection Storage Shallow

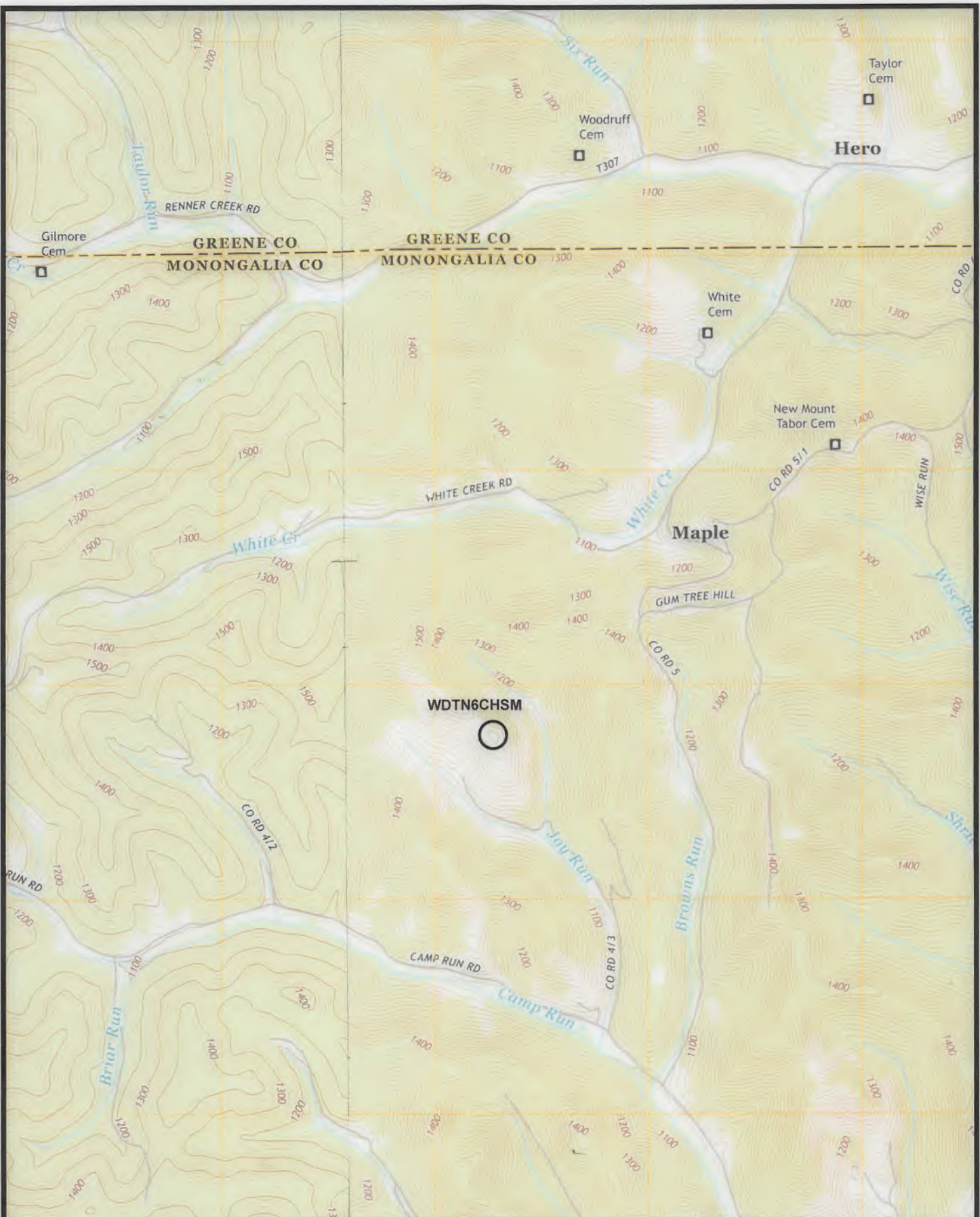
WATERSHED: DUNKARD CREEK ELEVATION: 1400.50
 COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV
 SURFACE OWNER: CONSOL RCPC LLC ACREAGE: 413.223
 OIL & GAS ROYALTY OWNER: CNX GAS COMPANY LLC ET AL ACREAGE: 413.223

DATE: March 22, 2019, Rev. April 18, 2019
 OPERATOR'S WELL #: WDTN6CHSM
 API WELL # 47 061 01849
 STATE COUNTY PERMIT



DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,965 ± TMD: 14,153' ±
 WELL OPERATOR: CNX GAS COMPANY, LLC DESIGNATED AGENT: CHRIS TURNER
 Address: 1000 CONSOL ENERGY DRIVE Address: 1 DOMINION DRIVE
 City CANONSBURG State PA Zip Code 15317 City JANE LEW State WV Zip Code 26378



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: March 22, 2019, Rev May 10, 2019

OPERATOR'S WELL #: WDTN6CHSM

API WELL #	<u>47</u>	<u>061</u>	
	STATE	COUNTY	PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: DUNKARD CREEK

ELEVATION: 1400.50

COUNTY/DISTRICT: MONONGALIA / BATTELLE

QUADRANGLE: WADESTOWN, WV

SURFACE OWNER: CONSOL RCPC LLC

ACREAGE: 413.223

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY LLC ET AL

ACREAGE: 413.223

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: TVD: 7,965 ± TMD: 14,153' ±

WELL OPERATOR: CNX GAS COMPANY, LLC

DESIGNATED AGENT: CHRIS TURNER

Address: 1000 CONSOL ENERGY DRIVE

Address: 1 DOMINION DRIVE

City CANONSBURG State PA Zip Code 15317

City JANE LEW State WV Zip Code 26378

Tract ID	Tax Map & Parcel	Grantor, Lessor, etc	Surface Owner
1A, 1B	1-9-20	CNX Gas Company LLC. ET. AL.	CONSOL RCPC LLC
2	1-9-19	Bounty Minerals, LLC	CONSOL MINING COMPANY LLC
3	1-9-6 1-9-6.1 1-9-6.2	John D. Lynch and Janet L. Lynch William R. Borchert and Ann L. Borchert Robert E. Lynch, Jr. and Sharon L. Lynch	WILLIAM R. BORCHERT ET AL. JOHN N. & CONNIE S. PALMER. JOHN N. & CONNIE S. PALMER
4	1-9-5	Roger Goodwin and Ilene Goodwin	CONSOL MINING COMPANY LLC
5	1-9-4	Douglas A. Church	EDGAR A. MOORE JR & SETH ALLEN
6	1-2-7	Mike J. Prendergast and Thelma Prendergast	MIKE J. & THELMA M. PRENDERGAST
7	1-2-6	OMAX Corporation, by William H. Bland, President Noumenon, Inc. by Stephen K. Shuman, President Shuman Inc., by Stephen K. Shuman, President XTO Energy Inc.	FLORA K. WOLFE
8	1-2-5	OMAX Corporation, by William H. Bland, President Noumenon, Inc. by Stephen K. Shuman, President Shuman Inc., by Stephen K. Shuman, President Flossie Kimble, Denzle Kimble and Olive Irene Wright Kimble	CONSOL MINING COMPANY LLC.
9	1-9-1 1-9-1.1 1-9-1.3 1-9-1.4	Larry Charles Taylor, individually and as trustee for the Generation-Skipping Trust FBO Larry Charles Taylor Samata Taylor-Sturm, a/k/a Dixie Taylor-Sturm and Michael Douglas Sturm Linda Suzann Miller, individually and as trustee for the Generation-Skipping Trust FBO Linda Suzann Miller Chrysanthe E. Taylor a/k/a Chris Taylor	ROBERT L. & DORIS J. SLIDER, JOEY A. & AMY B. SLIDER, WOLFPEN KNOB DEVELOPMENT CO.

WDTN6CHSM UNIT = 413.223 ACRES TOTAL		
BATTELLE DISTRICT		
#	TAX MAP & PARCEL	UNIT ACRES
1A	1-9, P/O PARCEL 20	47.843 Ac.
1B	1-9, P/O PARCEL 20	26.505 Ac.
2	1-9, PARCEL 19	77.843 Ac.
3	1-9, PARCEL 6, 6.1 & 6.2	33.293 Ac.
4	1-9, PARCEL 5	25.136 Ac.
5	1-9, PARCEL 4	25.411 Ac.
6	1-2, PARCEL 7	30.780 Ac.
7	1-2, PARCEL 6	43.601 Ac.
8	1-2, PARCEL 5	21.586 Ac.
9	1-9, PARCEL 1, 1.1, 1.3, 1.4	81.225 Ac.

SURFACE TRACT OWNERS & TAX PARCEL

1.	CONSOL RCPC LLC	TM# 1-9-20
2.	CONSOL RCPC LLC	TM# 1-9-20
3.	CONSOL MINING COMPANY LLC	TM# 1-9-19
4.	WILLIAM R. BORCHERT ET AL.	TM# 1-9-6
5.	JOHN N. & CONNIE S. PALMER	TM# 1-9-6
6.	JOHN N. & CONNIE S. PALMER	TM# 1-9-6.1
7.	CONSOL MINING COMPANY LLC.	TM# 1-9-5
8.	EDGAR A. MOORE JR & SETH ALLEN	TM# 1-9-4
9.	MIKE J. & THELMA M. PRENDERGAST	TM# 1-2-7
10.	FLORA K. WOLFE	TM# 1-2-6
11.	CONSOL MINING COMPANY LLC.	TM# 1-2-5
12.	ROBERT L. & DORIS J. SLIDER	TM# 1-9.1.3
13.	ROBERT L. & DORIS J. SLIDER	TM# 1-9-1
14.	JOEY A. & AMY B. SLIDER	TM# 1-9-1.4
15.	WOLFPEN KNOB DEVELOPMENT CO.	TM# 1-9.1.1

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



Sheffler & Company, Inc.
ENGINEERING • SURVEYING
1712 Mount Nebo Road Phone: 412-219-4509
Sewickley, PA 15143 Email: info@shefflerCo.com

DATE: March 22, 2019, Rev. May 10, 2019

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

OPERATOR'S WELL #: WDTN6CHSM
API WELL # 47 061
STATE COUNTY PERMIT

WATERSHED: DUNKARD CREEK ELEVATION: 1400.50

COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV

SURFACE OWNER: CONSOL RCPC LLC ACREAGE: 413.223

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY LLC ET AL ACREAGE: 413.223

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: TVD: 7,965 ± TMD: 14,153' ±

WELL OPERATOR: CNX GAS COMPANY, LLC

DESIGNATED AGENT: CHRIS TURNER

Address: 1000 CONSOL ENERGY DRIVE

Address: 1 DOMINION DRIVE

City CANONSBURG State PA Zip Code 15317

City JANE LEW State WV Zip Code 26378

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See attached				


**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: CNX Gas Company, LLC
 By: Erika Whetstone 
 Its: Permitting Manager

4706101849

<u>Tract ID</u>	<u>Tax Map & Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
1A, 1B	1-9-20	239983000	Consol RCPC LLC	CNX Gas Company LLC	Subsurface Easement	1648/661
2	1-9-19	188567000	Bounty Minerals, LLC	CNX Gas Company LLC	Not less than 1/8	1644/316
3	1-9-6 1-9-6.1 1-9-6.2	188563000	John D. Lynch and Janet L. Lynch William R. Borchert and Ann L. Borchert Robert E. Lynch, Jr. and Sharon L. Lynch	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8	1522/49 1522/53 1522/57
4	1-9-5	188562000	Roger Goodwin and Ilene Goodwin Consolidation Coal Company Consol Mining Company, LLC CNX Resource Holdings LLC	Consolidation Coal Company Consol Mining Company LLC CNX Resource Holdings LLC CNX Gas Company LLC	Deed Deed Deed Deed	1309/678 1489/107 1514/389 1603/78 Unrecorded (See Attached Copy)
5	1-9-4	188561000	Douglas A. Church Terra Firma Company CNX Land LLC	Terra Firma Company CNX Land LLC CNX Gas Company LLC	Deed Deed Deed	1295/148 CB 60/312 Unrecorded (See Attached Copy)
6	1-2-7	191527000	Mike J. Prendergast and Thelma Prendergast	CNX Gas Company LLC	Not less than 1/8	1507/432
7	1-2-6	189588000	OMAX Corporation, by William H. Bland, President Noumenon, Inc. by Stephen K. Shuman, President Shuman Inc., by Stephen K. Shuman, President XTO Energy Inc.	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	1512/788 1512/792 1513/102 1639/585
8	1-2-5	191524000	OMAX Corporation, by William H. Bland, President Noumenon, Inc. by Stephen K. Shuman, President Shuman Inc., by Stephen K. Shuman, President Flossie Kimble, Denze Kimble and Olive Irene Wright Kimble Consolidation Coal Company Reserve Coal Properties Company	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC Consolidation Coal Company Reserve Coal Properties Company CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Deed Deed Deed	1512/788 1512/792 1513/102 715/529 1002/686 1300/1
9	1-9-1 1-9-1.1 1-9-1.3 1-9-1.4	189590000	Larry Charles Taylor, individually and as trustee for the Generation-Skipping Trust FBO Larry Charles Taylor Samata Taylor-Sturm, a/k/a Dixie Taylor-Sturm and Michael Douglas Sturm Linda Suzann Miller, individually and as trustee for the Generation- Skipping Trust FBO Linda Suzann Miller Chrysanthe E. Taylor a/k/a Chris Taylor	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	1521/200 1511/142 1512/752 1512/756

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QUITCLAIM DEED

This QUITCLAIM DEED (this "*Deed*") is made as of the 25th day of April, 2019 (the "*Effective Date*"), by and between CNX RESOURCE HOLDINGS LLC, a Delaware limited liability company ("*Grantor*"), with a tax mailing address of 1000 CONSOL Energy Drive, Suite 400, Canonsburg, PA 15317, and CNX GAS COMPANY LLC, a Virginia limited liability company ("*Grantee*"), with a tax mailing address of 1000 CONSOL Energy Drive, Suite 400, Canonsburg, PA 15317.

WHEREAS, Grantor desires to grant, convey, quitclaim and assign to Grantee, and Grantee desires to receive from Grantor, all of Grantor's right, title, and interest, in and to the oil, gas, and coalbed methane within and underlying the assets and properties described below.

NOW, THEREFORE, for and in consideration of the mutual promises contained herein, the benefits to be derived by each party hereunder, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the terms and conditions of this Deed, Grantor does hereby GRANT, CONVEY, ASSIGN, TRANSFER, and QUITCLAIM unto Grantee, without warranty of any kind or nature, all of Grantor's right, title, interest, and claim, if any, in and to the oil, gas, and coalbed methane within and underlying those certain tracts or parcels described on Exhibit A (collectively, the "*Conveyed Interests*"), together with all rights, privileges, benefits, and powers as are appurtenant, necessary, convenient, implied and/or incidental to the possession, ownership, enjoyment, operation and/or development of the Conveyed Interests.

TO HAVE AND TO HOLD the Conveyed Interests unto Grantee, its successors and assigns, forever, subject, however, to (i) all the terms and conditions of this Deed; (ii) any and all other reservations, exceptions, rights of way, easements, contracts, covenants, conditions, restrictions or servitudes made, created or retained in prior deeds or other instruments of record or unrecorded as of the date hereof affecting or pertaining to the Conveyed Interests hereby conveyed; and (iii) governmental laws, ordinances, and regulations affecting the Conveyed Interests hereby conveyed and the uses to be made thereof.

As of the Effective Date, Grantee hereby assumes and agrees to fulfill, perform, pay and discharge (or cause to be fulfilled, performed, paid or discharged) all of the burdens, obligations, duties and liabilities arising out of or in connection with the Conveyed Interests, regardless of whether such burdens, obligations, duties and liabilities arose prior to, on or after the Effective Date.

THE CONVEYED INTERESTS ARE BEING CONVEYED IN AN "AS IS, WHERE IS" CONDITION AND "WITH ALL FAULTS" IN THEIR PRESENT CONDITION, WITHOUT ANY REPRESENTATION OR WARRANTY AS TO TITLE OR OTHERWISE (EXPRESS OR IMPLIED) OF ANY KIND OR NATURE, STATUTORY OR OTHERWISE, ORAL OR WRITTEN, PAST, PRESENT, OR FUTURE. GRANTOR AND GRANTEE

AGREE THAT, TO THE EXTENT REQUIRED BY APPLICABLE LAW TO BE EFFECTIVE, THE DISCLAIMERS OF CERTAIN REPRESENTATIONS AND WARRANTIES CONTAINED IN THIS PARAGRAPH ARE "CONSPICUOUS" DISCLAIMERS FOR THE PURPOSE OF ANY APPLICABLE LAW.

ASSIGNMENT AND ASSUMPTION OF MCSA. All of Conveyed Interests constitute Gas Interests (as defined therein) that were, as of the date of this Deed, subject to that certain Second Amendment and Restatement of Master Cooperation and Safety Agreement dated October 20, 2017, and effective as of 7:00 p.m. Eastern Time on October 6, 2017, by and between CONSOL Mining Corporation and certain of its Affiliates, collectively as Coal Party, and CNX Gas Company LLC and CNX Resource Holdings LLC, collectively as Gas Party, and joined by CONSOL Energy Inc., and certain of its Affiliates (for certain limited purposes), as modified and amended, a memorandum of which appears of record in the county where the Conveyed Interests are located (the "*MCSA*").

Affiliate Assignment under the MCSA. The parties acknowledge and agree that this Deed constitutes an Affiliate Assignment of such Gas Interests under, and as defined in, the MCSA.

Assignment and Assumption. Each Gas Interest that is Assigned (as defined in the MCSA) to Grantee by this Deed is expressly Assigned to Grantee subject to the MCSA, and (i) Grantor hereby assigns the MCSA to Grantee with respect thereto; and (ii) Grantee hereby agrees to be bound by the MCSA with respect thereto.

Amendment of MCSA. Grantor shall have the right to modify and amend the MCSA without having Grantee join in, or execute, the modification or amendment, so long as such modification or amendment does not apply to or affect the Gas Interests that are Assigned (as defined in the MCSA) to Grantee by this Deed. Grantee shall not modify or amend the MCSA, as it relates to the Gas Interests that are Assigned (as defined in the MCSA) to Grantee by this Deed without having Grantor join in, or execute, the modification or amendment.

Liability. Grantor shall not be liable for any costs, expenses or losses sustained or damages arising out of Grantee's assumption and/or compliance with the MCSA with respect to the Gas Interests that are Assigned (as defined in the MCSA) to Grantee by this Deed, or for any action or inaction of Grantee in connection with performing its obligations or exercising its rights under the MCSA with respect thereto, at and after the date of this Deed.

Indemnity. Grantee hereby covenants and agrees to hold Grantor harmless from, and to indemnify it against, any liability, loss, damage, penalty, charge, claim, cost, expense or deficiency (including, but not limited to, reasonable attorneys' fees and expenses and other costs and expenses incident to monitoring, remediation, proceedings or investigations or the defense of any claim) arising out of, resulting from or related to Grantee's assumption of and/or compliance with the MCSA, at and after the date of this

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Environmental Protection

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Deed with respect to the Gas Interests that are Assigned (as defined in the MCSA) to Grantee by this Deed, or to any action or inaction of Grantee in connection with performing its obligations or exercising its rights under the MCSA with respect thereto.

Notice. Grantee hereby covenants and agrees to provide written notice to Grantor not more than five (5) calendar days after it is notified of any act or omission, or of any claim of any act or omission, which is or which may constitute a default or breach of any nature under the terms of the MCSA, which notice shall specify the nature of such act or omission, identify the person or entity that notified Grantee of such act or omission, and include copies of all relevant correspondence with such person or entity.

Assignment. Grantee shall not Assign the MCSA, except in compliance with the terms thereof.

This Deed shall bind and inure to the benefit of the Parties hereto and their respective successors and assigns.

This Deed may be executed in any number of counterparts, and each such counterpart hereof shall be deemed to be an original instrument, but all of such counterparts shall constitute for all purposes one agreement.

DECLARATION OF CONSIDERATION OR VALUE. Grantor hereby declares that this deed is a quitclaim deed without consideration and, therefore, is not subject to the West Virginia excise tax on the privilege of transferring real property pursuant to West Virginia Code Section 11-22-1, *et seq.*

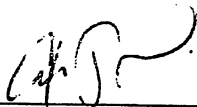
[Signature pages follow]

4706101849

IN WITNESS WHEREOF, this Deed has been executed by the Parties hereto as of the dates of their respective acknowledgements below but is effective for all purposes as of the Effective Date.

GRANTOR:

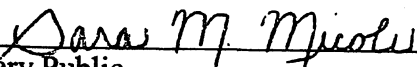
CNX RESOURCE HOLDINGS LLC

By: 
Name: Alexander J. Reyes
Title: Vice President DF

COMMONWEALTH OF PENNSYLVANIA,
COUNTY OF WASHINGTON, TO-WIT:

I, Sara M. Micoli, a notary public of the said county, do hereby certify that on this 25th day of April, 2019, before me personally appeared Alexander J. Reyes, who acknowledged himself to be the Vice President of CNX RESOURCE HOLDINGS LLC, a Delaware limited liability company, and that he, as such officer, being so authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing the name of the company by himself as said officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.


Notary Public

My commission expires: 03/11/2023
(Notarial Seal)

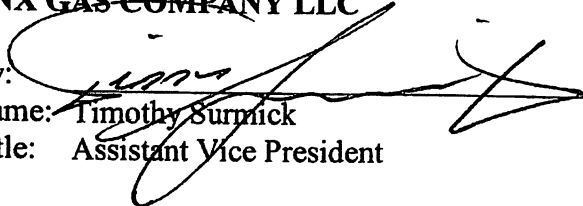
Commonwealth of Pennsylvania - Notary Seal
Sara M. Micoli, Notary Public
Washington County
My commission expires March 11, 2023
Commission number 1288863
Member, Pennsylvania Association of Notaries

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GRANTEE:

CNX GAS COMPANY LLC

By: 
Name: Timothy Surnick
Title: Assistant Vice President

COMMONWEALTH OF PENNSYLVANIA,
COUNTY OF WASHINGTON, TO-WIT:

I, Sara M. Micoli, a notary public of the said county, do hereby certify that on this 15th day of April, 2019, before me personally appeared Timothy Surnick, who acknowledged himself to be the Assistant Vice President of CNX GAS COMPANY LLC, a Virginia limited liability company, and that he as such officer, being so authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing the name of the company by himself as said officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Sara M. Micoli
Notary Public

My commission expires: 03/11/2023
(Notarial Seal)

Commonwealth of Pennsylvania - Notary Seal
Sara M. Micoli, Notary Public
Washington County
My commission expires March 11, 2023
Commission number 1288863
Member, Pennsylvania Association of Notaries

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This document was **PREPARED BY:**
CNX Resource Holdings LLC, 1000 CONSOL Energy Dr., Suite 400, Canonsburg, PA 15317 (Without Title Examination)

4706101849

EXHIBIT A

Conveyed Interests

CNX Agreement Number 281504000/549034

That certain tract of land situated in the District of Battelle, County of Monongalia, and State of West Virginia, being described as follows:

Beginning at a point corner to lands now or formerly of David O. Shough et ux.; thence by Shough, S. 3° 15' W. 2436.23 feet to a stone; thence by land now or formerly of Anthony Sago, Jr. et ux, S. 86° E. 440.84 feet to a stone; thence N. 4 ½° E. 151.8 poles, more or less, to a stake in West Virginia Secondary Highway No. 3; thence with said Secondary Road to a point, the place of beginning, containing 25.50 acres, more or less.

Being the property described in Deed Book No. 1309, Page 678, and subsequently conveyed in Deed Book No. 1603, Page 78

Overlying surface tax parcel number: 1-9-5

Acreage: 25.50 acres

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@msnolm
512

4706101849

COPY

14774

QUITCLAIM DEED

This QUITCLAIM DEED (this "*Deed*") is made as of the 25th day of April, 2019 (the "*Effective Date*"), by and between CNX LAND LLC, a Delaware limited liability company ("*Grantor*"), with a tax mailing address of 1000 CONSOL Energy Drive, Suite 400, Canonsburg, PA 15317, and CNX GAS COMPANY LLC, a Virginia limited liability company ("*Grantee*"), with a tax mailing address of 1000 CONSOL Energy Drive, Suite 400, Canonsburg, PA 15317.

WHEREAS, Grantor desires to grant, convey, quitclaim and assign to Grantee, and Grantee desires to receive from Grantor, all of Grantor's right, title, and interest, in and to the oil, gas, and coalbed methane within and underlying the assets and properties described below.

NOW, THEREFORE, for and in consideration of the mutual promises contained herein, the benefits to be derived by each party hereunder, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the terms and conditions of this Deed, Grantor does hereby GRANT, CONVEY, ASSIGN, TRANSFER, and QUITCLAIM unto Grantee, without warranty of any kind or nature, all of Grantor's right, title, interest, and claim, if any, in and to the oil, gas, and coalbed methane within and underlying those certain tracts or parcels described on Exhibit A (collectively, the "*Conveyed Interests*"), together with all rights, privileges, benefits, and powers as are appurtenant, necessary, convenient, implied and/or incidental to the possession, ownership, enjoyment, operation and/or development of the Conveyed Interests.

TO HAVE AND TO HOLD the Conveyed Interests unto Grantee, its successors and assigns, forever, subject, however, to (i) all the terms and conditions of this Deed; (ii) any and all other reservations, exceptions, rights of way, easements, contracts, covenants, conditions, restrictions or servitudes made, created or retained in prior deeds or other instruments of record or unrecorded as of the date hereof affecting or pertaining to the Conveyed Interests hereby conveyed; and (iii) governmental laws, ordinances, and regulations affecting the Conveyed Interests hereby conveyed and the uses to be made thereof.

As of the Effective Date, Grantee hereby assumes and agrees to fulfill, perform, pay and discharge (or cause to be fulfilled, performed, paid or discharged) all of the burdens, obligations, duties and liabilities arising out of or in connection with the Conveyed Interests, regardless of whether such burdens, obligations, duties and liabilities arose prior to, on or after the Effective Date.

THE CONVEYED INTERESTS ARE BEING CONVEYED IN AN "AS IS, WHERE IS" CONDITION AND "WITH ALL FAULTS" IN THEIR PRESENT CONDITION, WITHOUT ANY REPRESENTATION OR WARRANTY AS TO TITLE OR OTHERWISE (EXPRESS OR IMPLIED) OF ANY KIND OR NATURE, STATUTORY OR OTHERWISE, ORAL OR WRITTEN, PAST, PRESENT, OR FUTURE. GRANTOR AND GRANTEE AGREE THAT, TO THE EXTENT REQUIRED BY APPLICABLE LAW TO BE EFFECTIVE, THE

4706101849

DISCLAIMERS OF CERTAIN REPRESENTATIONS AND WARRANTIES CONTAINED IN THIS PARAGRAPH ARE "CONSPICUOUS" DISCLAIMERS FOR THE PURPOSE OF ANY APPLICABLE LAW.

This Deed shall bind and inure to the benefit of the Parties hereto and their respective successors and assigns.

This Deed may be executed in any number of counterparts, and each such counterpart hereof shall be deemed to be an original instrument, but all of such counterparts shall constitute for all purposes one agreement.

DECLARATION OF CONSIDERATION OR VALUE. Grantor hereby declares that this deed is a quitclaim deed without consideration and, therefore, is not subject to the West Virginia excise tax on the privilege of transferring real property pursuant to West Virginia Code Section 11-22-1, *et seq.*

[Signature pages follow]

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IN WITNESS WHEREOF, this Deed has been executed by the Parties hereto as of the dates of their respective acknowledgements below but is effective for all purposes as of the Effective Date.

GRANTOR:

CNX LAND LLC

By: [Signature]
Name: Alexander J. Reyes
Title: Vice President

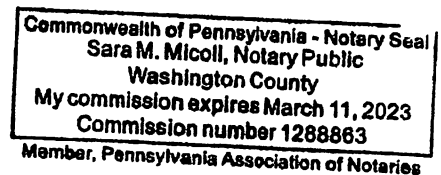
COMMONWEALTH OF PENNSYLVANIA,
COUNTY OF WASHINGTON, TO-WIT:

I, Sara M. Micoli, a notary public of the said county, do hereby certify that on this 15th day of April, 2019, before me personally appeared Alexander J. Reyes, who acknowledged himself to be the Vice President of CNX LAND LLC, a Delaware limited liability company, and that he, as such officer, being so authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing the name of the company by himself as said officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

[Signature]
Notary Public

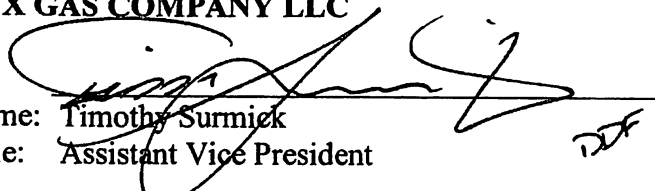
My commission expires: 03/11/2023
(Notarial Seal)



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GRANTEE:

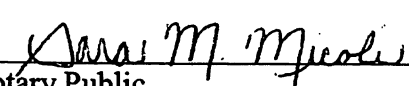
CNX GAS COMPANY LLC

By: 
Name: Timothy Surnick
Title: Assistant Vice President

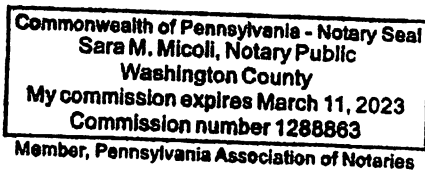
COMMONWEALTH OF PENNSYLVANIA,
COUNTY OF WASHINGTON, TO-WIT:

I, Sara M. Micoli, a notary public of the said county, do hereby certify that on this 15th day of April, 2019, before me personally appeared Timothy Surnick, who acknowledged himself to be the Assistant Vice President of CNX GAS COMPANY LLC, a Virginia limited liability company, and that he as such officer, being so authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing the name of the company by himself as said officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.


Notary Public

My commission expires: 03/11/2023
(Notarial Seal)



This document was **PREPARED BY:**
CNX Land LLC, 1000 CONSOL Energy Dr., Suite 400, Canonsburg, PA 15317 (Without Title Examination)

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EXHIBIT A

Conveyed Interests

CNX Agreement Number 280882000/549008

That certain tract of land situated in the District of Battelle, County of Monongalia, and State of West Virginia, being described as follows:

BEGINNING at a point in the centerline of West Virginia Secondary Highway No. 3, a corner to property owned by Mildred Hennen; thence leaving said secondary road with the line of Mildred Hennen, S. 3° 58' 15" W. 2,436.23 feet to a stake corner to the property of Clark Hennen, et al.; thence with the boundary line of said property, N. 85° 15' W. 438.61 feet to a stone corner to the property of land now or formerly owned by Nancy Weik; thence with said property lines, N. 3° 18' E. 2,399.67 feet to a point in the center line of said secondary road; thence with the center line of said road, N. 82° 22' 30" E. 167.22 feet to a point in the center of said secondary road; thence S. 85° 29' 30" E. 302.89 feet to a point in the centerline of said secondary road, the place of **BEGINNING**, containing 25.250 acres, more or less, as laid down and designated upon a plat of survey prepared by T. J. Mankey, Registered Professional Engineer, dated March, 1972, a copy of which is of record in the office of the Clerk of the County Commission of Monongalia County, West Virginia, in Deed Book No. 179, at Page 446.

Being the property described in Deed Book No. 1295, Page 148

Overlying surface tax parcel number: 1-9-4

Acreage: 25.25 acres

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STATE TAX COMMISSIONER OF WEST VIRGINIA
SALES LISTING FORM

The Instrument May Not Be Recorded If This Form Is Not Completed In Its Entirety

West Virginia Code §§11-22-6, 11A-3-2 & 11A-3-3 (Amended 3-11-1995) Revised 8/12

County: Monongalia Taxing District: Battelle
Tax Map No. (s): 9 Parcel(s): 4
Tax Map No. (s): _____ Parcel(s): _____
Account #: _____
Mineral ID #: _____
Grantor's Name: CNX Land LLC Phone No. _____
Grantee's Name: CNX GAS COMPANY LLC Phone No. _____
Mailing Address of New Owner: 1000 CONSOL ENERGY DR. CANONSBURG, PA 15317
Mailing Address for Tax Statements: 1000 CONSOL ENERGY DR. CANONSBURG, PA 15317
Most Recent Previous Deed Book No.: 1295 Page No.: 148
Grantor's Source of Title: _____

(If not by "Previous Deed" reference above.)

(a) Real Estate: _____ (b) Other Valuable Goods/Services: (If Applicable) _____
Consideration/Value: \$ 0.00 \$ _____
Lot Size of Acreage Involved: 25.25
Estate(s) Transferred: Oil, Gas, CBM

(Examples: Fee, Surface, Mineral, Coal, etc.)

- (1) Was this transaction on the open market? Yes / No (Circle One)
- (2) Does this transaction involve more than one parcel? Yes / No (Circle One)
- (3) Was this sale between related individuals or related corporations? Yes / No (Circle One)
- (4) Was this a liquidation, foreclosure or other "Forced" sale? Yes / No (Circle One)
- (5) Is this transaction pursuant to a land contract or owner financing? Yes / No (Circle One)
- (6) Does this transaction include personal property? Yes / No (Circle One)
- (7) Does this transaction include minerals and/or timber? Yes / No (Circle One)
- (8) Any other financing arrangements materially affecting consideration? Yes / No (Circle One)
- (9) Is this a mineral sale only? Yes / No (Circle One)

If "No" to Question 1 or "Yes" to Questions 2 - 8 above, please explain below:

Explanation: Intercompany GC Deed - No consideration
Printed Name: Jacob Young Signature: Jacob C Young Phone Number: _____
Filed By (check one): _____ Buyer _____ Seller _____ Agent/Attorney _____ Other _____

LIENHOLDER INFORMATION (OPTIONAL)

Check if change of name or address

Name: _____
Address for Notice: _____

INTEREST IN PROPERTY

Surface Owner's Rights _____ Deed book: _____ Page No.: _____
Fiduciary Interest _____ Relationship to Owner: _____
Lienholder _____ Trust Deed Book No.: _____ Page No.: _____
Other _____

To Be Completed By County Clerk:

Stamp Fee Paid: _____
Date Recorded: _____
New Deed Book No.: _____
New Deed Book Page No.: _____
Date of Transaction: _____

Sheriff's Use Only

Date Received: _____
Effective Dates of Lien: _____
Date Entered: _____
Entered By: _____
Tax Ticket No.: _____

RELEASE OF LIEN

COMPLETE THIS SECTION IF YOU ARE RELEASING THIS LIEN

Date Lien Is Released: _____
Signature of Lienholder: _____

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COPIES: ASSESSOR _____ SHERIFF _____ TAX COMMISSIONER _____ PREPARER _____

MAY 15 2019

WV Department of Environmental Protection



Erika Whetstone
Permitting Manager
1000 Consol Energy Dr.
Canonsburg, PA 15317
(724) 485-4035

West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th Street, SE
Charlestown, WV 25304-2345

RE: Road Letter – WDTN6 Well Pad Drilling Applications

To Whom It May Concern:

CNX Gas Company, LLC has the right to drill, stimulate and produce wells that are drilled under the County and State roads as designated on the plats.

If any further information or correspondence is required, please contact me at (724) 485-4035 or ErikaWhetstone@cnx.com.

Sincerely,

A handwritten signature in blue ink that reads "Erika Whetstone". The signature is written in a cursive, flowing style.

Erika Whetstone
Permitting Manager

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MAY 15 2019

WV Department of
Environmental Protection

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION**

Date of Notice Certification: 05/06/2019

API No. 47- 061 - _____
Operator's Well No. WDTN6CHSM
Well Pad Name: WDTN6

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>554286.5540</u>
County: <u>Monongalia</u>		Northing: <u>4394726.7970</u>
District: <u>Battelle</u>	Public Road Access: <u>Joy Run Road, CR 4/3</u>	
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Consol</u>	
Watershed: <u>Dunkard Creek</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY		OOG OFFICE USE ONLY
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED		<input checked="" type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		<input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION		<input checked="" type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE		<input checked="" type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<input checked="" type="checkbox"/> RECEIVED

RECEIVED
Office of Oil and Gas
MAY 15 2019
WV Department of
Environmental Protection

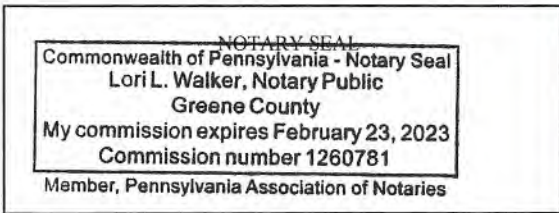
Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

THEREFORE, I Erika Whetstone _____, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

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



Commonwealth of Pennsylvania County of Washington
 Subscribed and sworn before me this 6th 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 telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION**

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 5/13/19 **Date Permit Application Filed:** 5/14/19

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
 Name: Consol RCPC LLC
 Address: 1000 Consol Energy Dr
Canonsburg PA 15317

Name: _____
 Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
 Name: Consol Mining Company LLC
 Address: 1000 Consol Energy Dr
Canonsburg PA 15317

Name: _____
 Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

COAL OPERATOR
 Name: _____
 Address: _____

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 MAY 15 2019
 WV Department of
 Environmental Protection

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
 Name: _____
 Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
 Name: _____
 Address: _____

*Please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

MAY 15 2019

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10 may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) 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.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and 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.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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WW-6A
(8-13)

4706101849
API NO. 47-061 -
OPERATOR WELL NO. WDTN6CHSM
Well Pad Name: WDTN6

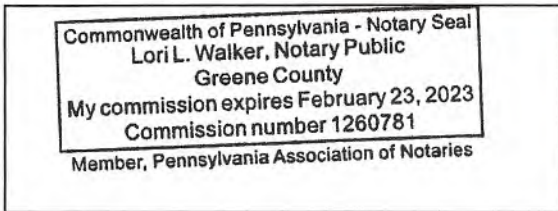
Notice is hereby given by:

Well Operator: CNX Gas Company, LLC *Erika Whetstone*
Telephone: 724-485-4035
Email: ErikaWhetstone@cnx.com

Address: 1000 Consol Energy Dr
Canonsburg, PA 15317
Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



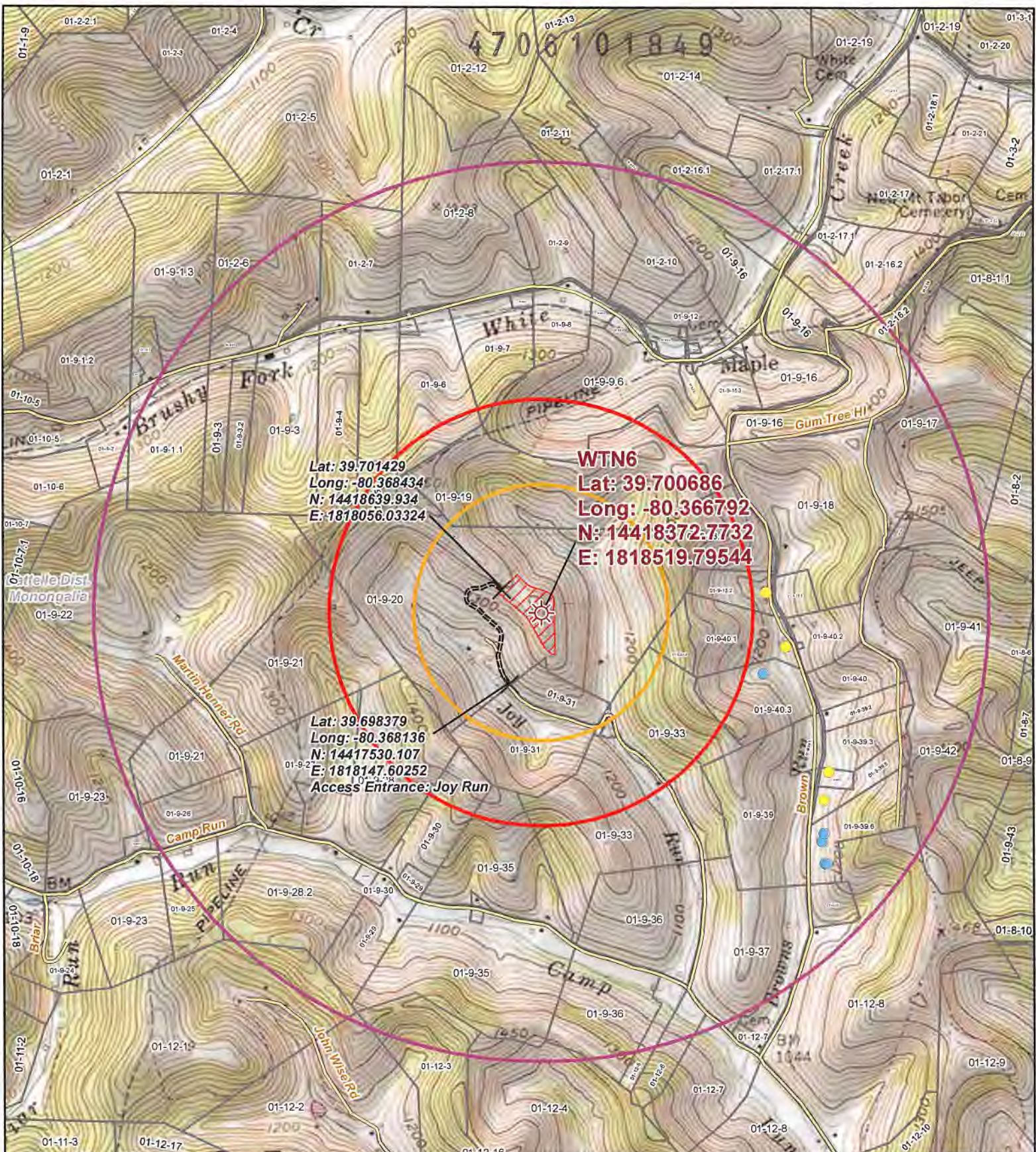
*Commonwealth of Pennsylvania
County of Washington*

Subscribed and sworn before me this 6th day of May 2019.

Lori L Walker Notary Public

My Commission Expires February 23, 2023

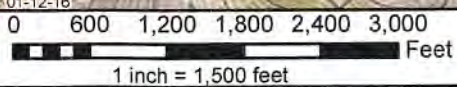
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Legend

- Wellbore
- Access Points
- Water Well
- Spring
- Access Road
- 1,000 ft Buffer
- 2,500 ft Buffer
- 1 Mile Buffer
- WDTN6 Pad LOD
- Surface Parcel

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Original Date: 4/8/2019	Prepared By: GIS
Revision Date: 4/8/2019	Approved By: GIS

Topographic Well Map
WDTN6

This map is property of CNX Land Resources Inc. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent.
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WW6A Notice of Application**WDTN6HSM**

Coal Owner or Lessee:

CNX Land, LLC	1000 Consol Energy, Dr Canonsburg PA 15317-6506
Dorothy Chohrach	254 Constitution Ave., Bradford, PA 16701
Helen Pecora	8 Edgewood Rd., Bradford, PA 16701
Patricia A. Cooney	1422 Windfall Rd., Olean, NY 14760
David Liming and Nancy Liming	4341 Mason Dixon Highway Core, WV 26541
Three Rivers Royalty II LLC	9055 E. Mineral Cir., STE.110, Centennial, CO 80112
Carolyn S. Moore	195 Partin Rd., Corbin, KY 40701
Belinda T. Shriver and Charles C. Shriver	P.O. Box 190 Blacksville, WV 26521
Blaze Minerals	520 Folly Road, Suite P285 Charleston, South Carolina 29412
Carl J. Woods	930 Wallace Run Rd., Beaver Falls, PA 15010
Marjorie L. White	1824 Fourth Ave., Beaver Falls, PA 15010
Wanda Lee Woods Shaffer	408 Mud Bridge Rd., Enon Valley, PA 16120
Beverly A. Woods Paden Tonge	P.O. Box 167, Enon Valley, PA 16120
Mark A. Clark	222 Blueberry Dr., Columbiana, OH 44408
Gregory S. Clark	304 Firestone Ave., Columbiana, OH 44408
Melissa Ann Hennen Limbaugh	15165 87th Rd. N., Loxahatchee, FL 33470
Milan W. Cikovich Jr.	1515 Dawn Dr., Fairmont, WV 26554
Christine Michelle Park	649 Sassafras Dr., Fairmont, WV 26554

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Amended and Restated Milan W. Cikovich Testamentary Trust f/b/o Francine R. Cikovich, Milan Cikovich, Jr. and Christine Park, Trustees	649 Sassafras Drive Fairmont, WV 26554 1515 Dawn Drive Fairmont, WV 26554
CNX Gas Company LLC	1000 Consol Energy, Dr Canonsburg PA 15317-6506
Linda S. Sansone	3771 Paseo De Cardo, Sierra Vista, AZ 85650
Mildred Louise Walton	68359 Liston Ave., Bridgeport, OH 43912
Jonathan N. Bragg	518 Race St., Fairmont, WV 26554
Natalie C. Bragg	266 Linden Pl., New Milford, NJ 07646
Tracie Bragg-Thompson	1207 S. Davis Ave., Elkins, WV 26241
Mikelene Gray	7 Overbrook Ave., Wheeling, WV 26003
Jerry Lee Hennen, Jr.	3306 State Route 152, Richmond, OH 43944
Donna R. Hennen LIFE ESTATE ONLY	8408 Carriage Ln., Fairmont, WV 26554
Cecil L. Hennen	431 Triumph Rd., Holbrook, PA 15341
Helene M. Godwin Muetzel	1195 Colston Dr., Westerville, OH 43081
Karen S. Gray	1195 Colston Dr., Westerville, OH 43081
Judy Kay Howard	9318 Sendera Dr., Magnolia, TX 77354
Mary Virginia Davis	147 South East Street Apt. A Waynesburg, PA 15370
Roger L. Pratt	89 Pratts Fork Rd., Alma, WV 26320
James R. Hennen Jr.	1860 Fish Creek Rd., Proctor, WV 26055
Don Fordyce	112 College Ln., Latrobe, PA 15650
Betty Short	1303 Benshoff Hill Rd., Johnstown, PA 15906

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Barbara Hennen	7552 Western Circle Drive Brooksville, FL 34613
Bonnie Lee Hennen Winnen	1062 Winhurst Dr., Akron, OH 44313
Richard P. Hennen	3275 Sylvan Rd., Bethel Park, PA 15102
St. Johns United Church of Christ	41 22nd St., Wheeling, WV 26003
Nancy L. Singer	137 Crisswill Rd., St. Clairsville, OH 43950
Jeanette Irwin Prout	119 Orchard Oak Dr., Blacklick, OH 43004
James C. Irwin	155 Chapel Road Wheeling, WV 26003
Connie Jean Hennen Thompson	13 Sigsbee Road Greensboro, PA 15338
Steven E. Hennen	1338 State Route 297 Marion, KY 42064
Donna K. Hennen Wickham	1739 Browns Creek Rd. Nineveh, PA 15353
Denise M. Mitchell	405 Cottage Hill Rd. New Freeport, PA 15352
Charlie Fudge	721 Jackson Ave., Huntington, WV 25704
Mary Louella Hennen	949 Myers Rd., Scottown, OH 45678
CNX RCPC LLC	1000 Consol Energy, Dr Canonsburg PA 15317-6506
Cynthia Solomon	1301 University Avenue, Morgantown, WV 26505

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 4/8/2019 **Date of Planned Entry:** 4/15/2019

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: Consol RCPC LLC (TMP 1-9-20)

Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: See attached

Address: _____

MINERAL OWNER(s)

Name: See attached

Address: _____

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.700252, -80.367877</u>
County: <u>Monongalia</u>	Public Road Access: <u>Joy Run Road County Rte 4/3</u>
District: <u>Battelle</u>	Watershed: <u>Dunkard Creek</u>
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Consol</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: CNX Gas Company, LLC

Telephone: 724-485-4035

Email: _____

Address: 1000 Consol Energy Drive, Canonsburg, PA 15317

Facsimile: _____

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Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice: 5/13/19 **Date Permit Application Filed:** 5/14/19

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Consol RCPC LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 554286.5540
County: Monongalia Northing: 4394726.7970
District: Battelle Public Road Access: Joy Run Road CR 4/3
Quadrangle: Wadestown Generally used farm name: Consol
Watershed: Dunkard Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: CNX Gas Company, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Telephone: 724-485-4035
Email: ErikaWhetstone@cnx.com
Facsimile: _____

Authorized Representative: Erika Whetstone
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Telephone: 724-485-4035
Email: ErikaWhetstone@cnx.com
Facsimile: _____

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Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 5/13/19 **Date Permit Application Filed:** 5/14/19

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Consol RCPC LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>554286.5540</u>
County: <u>Monongalia</u>		Northing: <u>4394726.7970</u>
District: <u>Battelle</u>	Public Road Access: <u>Joy Run Road, CR 4/3</u>	
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Consol</u>	
Watershed: <u>Dunkard Creek</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: CNX Gas Company, LLC
Telephone: 724-485-4035
Email: ErikaWhetstone@cnx.com

Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WV Department of
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

April 10, 2019

Byrd E. White, III
Secretary of Transportation

Jimmy Wriston, P. E.
Deputy Secretary/
Acting Commissioner

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the WDNT 6 Pad, Monongalia County
WDTN6CHSM Well Site

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #04-2019-0227 for the subject site to CNX Gas Company LLC, for access to the State Road for the well site located off of Monongalia County route 4/3 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

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MAY 15 2019

Very Truly Yours,

WV Department of
Environmental Protection

Gary K. Clayton
Regional Maintenance Engineer
Central Office Oil & Gas Coordinator

Cc: Ray Hoon
CNX Gas Company LLC
CH, OM, D-4
File

Section V – Proposed Additives to be used in Fracturing or Stimulations

Type: Water CAS: 7732-18-5

Type: Silica CAS: 14808-60-7

Type: Hydrochloric Acid CAS: 7647-01-0

Type: Copolymer of Two Propenamide CAS: 69418-26-4

Type: Petroleum distillate CAS: 64742-47-8

Type: Glutaraldehyde CAS: 111-30-8

Type: Ethylene glycol CAS: 107-21-1

Type: Diethylene glycol mono n-butyl ether CAS: 112-34-5

Type: Oleic acid diethanolamide CAS: 93-83-4

Type: Alcohols, C12-16, ethoxylated CAS: 68551-12-2

Type: Quaternary ammonium compound CAS: 68424-85-1

Type: Ammonium chloride CAS: 12125-02-9

Type: Short chained glycol ether CAS: 112-34-5

Type: Ethoxylated (C10-16) alcohols CAS: 68002-97-1

Type: Metanol CAS: 67-56-1

Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

Type: Acetophenone CAS: 98-86-2

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WV Department of
Environmental Protection

4706101849

EROSION & SEDIMENT CONTROL PLAN & SITE RESTORATION PLAN

WDTN-6 WELL SITE

MONONGALIA COUNTY, WEST VIRGINIA

FOR



**APPROVED
WVDEP OOG**

6/25/2019

LANDOWNER	DISTURBANCE FROM ACCESS ROAD & STOCKPILES (ACRES)	DISTURBANCE FROM WELL PAD & STOCKPILES (ACRES)
TERRA FIRMA COMPANY 31-01-9-0020-0000 CONSOLIDATING COMPANY LLC	8.51	18.73
31-01-9-0031-0000	0.07	1.84



REFERENCE COURSE: 1915 STATE OF WEST VIRGINIA SURVEY - WADESTOWN AND HUNDRED QUADRANGLE 191; 7.5 MINUTE SERIES



PROJECT NO. 1216068
NOVEMBER 2018



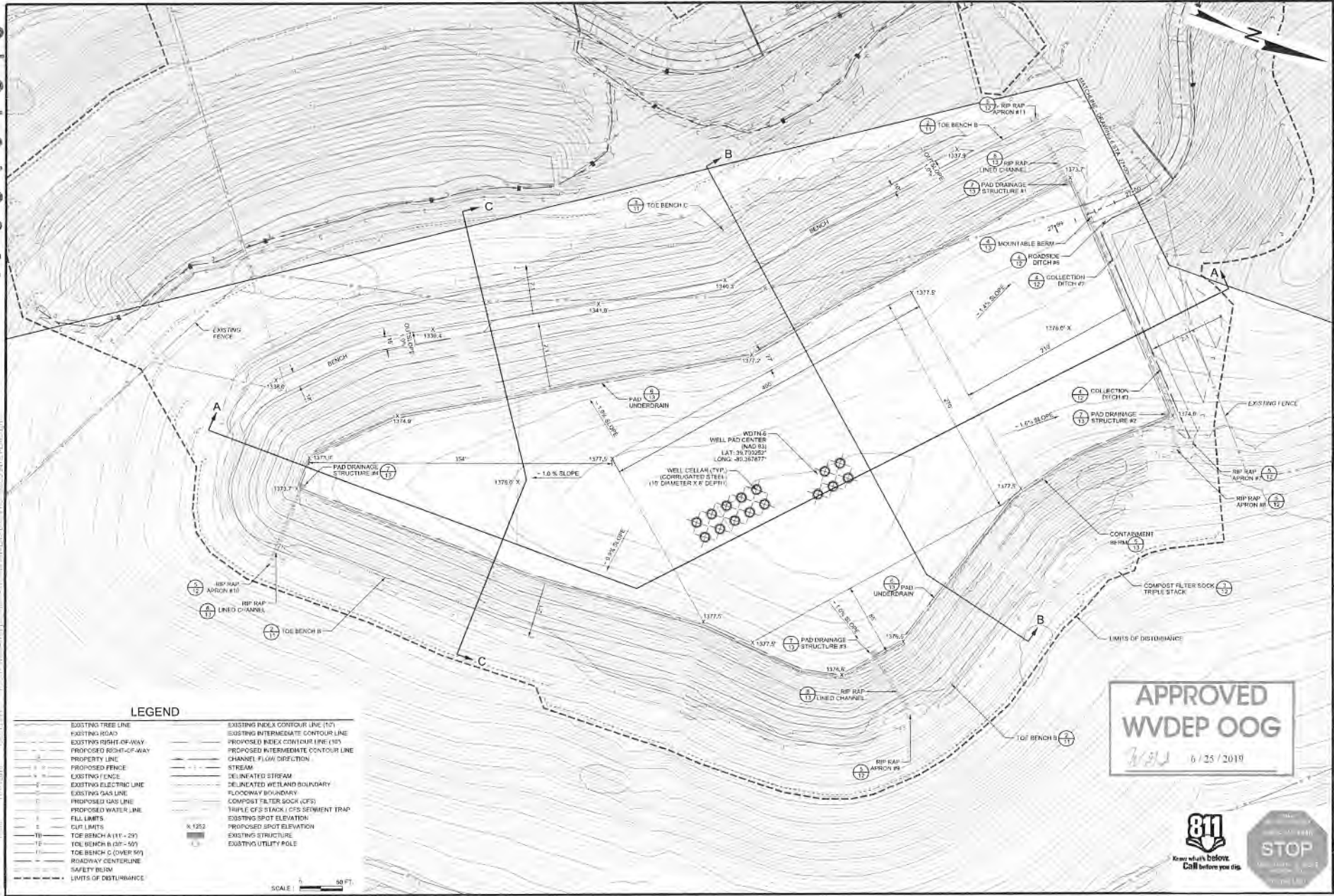
DIEFFENBAUCH & HRITZ



INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING SITE PLAN
4	SOILS PLAN
5	OVERALL SITE PLAN
6+7	PROPOSED SITE PLAN
8	ACCESS ROAD PROFILE
9	ACCESS ROAD SECTIONS
10	WELL PAD TYPICAL SECTIONS
11	10L BENCH DETAILS
12-15	ESS DETAILS
14	SITE RESTORATION PLAN
15	REVEGETATION PLAN
16	QUANTITIES SUMMARY

4706101849
 DIEFFENBAUCH & HRITZ, LLC
 1216068
 WDTN-6 WELL SITE
 TITLE SHEET
 1

4706101849



LEGEND

- | | | | |
|-------|-------------------------|-----|------------------------------------|
| — | EXISTING TREE LINE | --- | EXISTING INDEX CONTOUR LINE (10') |
| --- | EXISTING ROAD | --- | EXISTING INTERMEDIATE CONTOUR LINE |
| - - - | EXISTING RIGHT-OF-WAY | --- | PROPOSED INDEX CONTOUR LINE (10') |
| - - - | PROPOSED RIGHT-OF-WAY | --- | PROPOSED INTERMEDIATE CONTOUR LINE |
| --- | PROPERTY LINE | --- | CHANNEL FLOW DIRECTION |
| --- | PROPOSED FENCE | --- | STREAM |
| --- | EXISTING FENCE | --- | DELIMITED STREAM |
| --- | EXISTING ELECTRIC LINE | --- | DELIMITED WETLAND BOUNDARY |
| --- | EXISTING GAS LINE | --- | FLOODWAY BOUNDARY |
| --- | PROPOSED GAS LINE | --- | COMPOST FILTER SOCK (CFS) |
| --- | PROPOSED WATER LINE | --- | TRIPLE C/S STACK / C/S SEWAGE TRAP |
| --- | FULL LIMITS | --- | EXISTING SPOT ELEVATION |
| --- | CUT LIMITS | --- | PROPOSED SPOT ELEVATION |
| --- | TOE BENCH A (11' - 29') | --- | EXISTING STRUCTURE |
| --- | TOE BENCH B (37' - 57') | --- | EXISTING UTILITY POLE |
| --- | TOE BENCH C (OVER 50') | | |
| --- | ROADWAY CENTERLINE | | |
| --- | SAFETY BERM | | |
| --- | LIMITS OF DISTURBANCE | | |

SCALE 1" = 50 FT.

APPROVED WVDEP OOG
6/25/2019



PROJECT: WDN-6 WELL SITE	
DATE: 6/25/2019	
DRAWN BY: J.M. DAVIS	
CHECKED BY: J.M. DAVIS	
DATE: NOV 2019	
PROJECT NO: 1716006	
PROJECT NAME: DIEFFENBAUGH & HRTZ, LLC	
ADDRESS: 1000 W. MARKET ST., SUITE 2000, CHARLESTON, WV 25307	
PHONE: 304.325.8557	