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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, November 28, 2018

WELL WORK PERMIT  
Horizontal 6A / New Drill

CNX GAS COMPANY LLC  
POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for WDTN5BHSU  
47-061-01806-00-00

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: WDTN5BHSU  
Farm Name: JOHN M. WISE, ET UX., ET AL  
U.S. WELL NUMBER: 47-061-01806-00-00  
Horizontal 6A New Drill  
Date Issued: 11/28/2018

# 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

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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

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](mailto:DEPOOGNotify@wv.gov).



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Oil and Gas Conservation Commission  
601 57<sup>th</sup> Street SE, Charleston, WV 25304  
304-926-0499 Ext 1274

Barry K. Lay, Chairman  
dep.wv.gov

July 24, 2018

Department of Environmental Protection  
Office of Oil and Gas  
Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-061-01806

COMPANY: CNX Gas Company, LLC

FARM: WDTN5BHSU


COUNTY: Monongalia      DISTRICT: Battelle      QUAD: Wadestown

The deep well review of the application for the above company is **Approved to drill to the Trenton for Point Pleasant completion. Pooling Docket No. 264-253**

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1. Comments to Notice of Deviation filed? None
2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? yes
3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: \*yes, Docket Number 264-253 Exception Location Hearing; 47-061-01805 and 47-061-01807
4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

  
Susan Rose  
Administrator

WW-6B  
(04/15)

API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. WDTN5BHSU  
Well Pad Name: WDTN5

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: WDTN5BHSU Well Pad Name: WDTN5

3) Farm Name/Surface Owner: Wise Public Road Access: CR6 Wise Run

4) Elevation, current ground: 1400 Elevation, proposed post-construction: 1389

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_

(b) If Gas Shallow \_\_\_\_\_ Deep   
Horizontal

6) Existing Pad: Yes or No No *Maurya L & 4/8/2018*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Point Pleasant, Top=13,270', 75' thick, expected formation pressure ~12,000 psi

8) Proposed Total Vertical Depth: 13,565' (at pilot hole / Trenton), 13,335' (at producing formation / Point Pleasant)

9) Formation at Total Vertical Depth: Pilot-Trenton, Producing-Point Pleasant

10) Proposed Total Measured Depth: 19,825'

11) Proposed Horizontal Leg Length: 6,067'

12) Approximate Fresh Water Strata Depths: 125', 1070'

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: 2180', 2625'

15) Approximate Coal Seam Depths: 709', 970', 1,058', 1,063'

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

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(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_



18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
Conductor	26	N	L/S	99.0	129	100	CTS 122CF
Fresh Water	18.625	N	J-55	87.5	1409	1380	CTS1724CF
Coal	18.625	N	J-55	87.5	1409	1380	CTS 1724CF
Intermediate	13.375	N	J-55	61.0	3084	3055	CTS 2190CF
Intermediate	9.625	N	P-110	43.5	11989	11960	TOC@2855, 2859CF
Production	5.5	N	Q-125	23.0	19854	19825	TOC@7500, 2930CF
Tubing	2.375	N	J-55	4.7			

Liners N/A

*Maureen J. K... 4/18/2018*

<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
Conductor	26	30	0.375	N/A	N/A	Type 1	1.18
Fresh Water	18.625	24	0.435	2250	<500	Class A	1.19
Coal	18.625	24	0.435	2250	<500	Class A	1.19
Intermediate	13.375	17.5	0.430	3090	<2475	Class A	1.19
Intermediate	9.625	12.25	0.435	8700	<7000	Class A	2.03 / 1.24
Production	5.5	8.5	0.415	16500	~12500 during frac	Class H	1.24
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 26" conductor into solid rock and cement back to surface. MIRU drilling rig. Air drill 24" hole. Run and cement 18-5/8" 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 17-1/2" hole. Run and cement 13-3/8" 1st intermediate casing. Air drill 12-1/4" hole (this section is typically directionally drilled with a slant or S-turn profile for anti-collision and for lateral spacing). Displace hole with 12.5 ppg SOBM. Run and cement 9-5/8" 2nd intermediate casing. Drill 8-1/2" vertical pilot hole to core point. Cut whole core. Drill logging rathole. Open hole log well. Plug back with cement from pilot hole TD to curve KOP. Sidetrack 8-1/2" production hole off cement plug. Drill 8-1/2" curve from KOP to landing point. Plan to land with 14.0-14.5 ppg SOBM. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in 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 ~12,500 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): 46.90

22) Area to be disturbed for well pad only, less access road (acres): 5.4

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 strings: centralize shoe joint and every 3rd joint to surface and/or TOC - 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% CaCl<sub>2</sub> and 1/4 pps cello-flake/LCM. 1st intermediate string: Class A cement with 0%-2% CaCl<sub>2</sub> and 1/4 pps cello-flake/LCM. 2nd intermediate string: Class A cement, lead and tail with dry blend and/or liquid additives. 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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25) Proposed borehole conditioning procedures:

Top hole 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 12-1/4" hole - load hole with 12.5 ppg SOBM and circulate hole clean. 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.

## WDTN5 Cement Additives

- **Fresh water/coal string: Class A cement with 1%-3% CaCl<sub>2</sub> and 1/4 pps cello-flake/LCM.**
- **Intermediate string: Class A cement with 0%-2% CaCl<sub>2</sub> 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-5B-HSU (Utica HZ)**  
**Utica Shale Horizontal with Pilot Hole**  
**Monongalia County, WV**

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61-01806

Ground Elevation	1390' GL Elevation	315°	WDTN-5B-HSU SHL	WDTN-5B-HSU LP	WDTN-5B-HSU BHL	N 440530.83, E 1764427.45 (NAD27)	N 441192.52, E 1764271.45 (NAD27)	N 445481.67, E 1759982.31 (NAD27)	COMMENTS	
<b>WELLBORE DIAGRAM</b>	<b>HOLE</b>	<b>CASING</b>	<b>GEOLOGY</b>	<b>MD</b>	<b>TVD</b>	<b>MUD</b>	<b>CEMENT</b>	<b>CENTRALIZERS</b>	<b>CONDITIONING</b>	<b>COMMENTS</b>
	30"	26" L/S	Shallowest Fresh Water Conductor	100	100	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil
	24"	18-5/8" 87.5# J-55 BTC	Waynesburg 1 Coal Pittsburgh Coal FW/Coal Casing	125 709 1063	125 709 1063	AIR / FW Mist	15.6 ppg Class A 20% OH Excess Yield = 1.19 TOC @ surface	Centralize every 3rd joint from shoe to surface (bow spring)	Ensure the hole is clean at section TD	Set through potential salt water zones Cemented to surface 18-5/8" shoe NOT to be set deeper than ground level
	17-1/2"	13-3/8" 61.0# J-55 BTC	Big Lime Big Injun Price 1st Intermediate Csg	2475 2665 2805 3055	2475 2665 2805 3055	AIR / Soap	15.6 ppg Class A 20% OH Excess Yield = 1.19 TOC @ surface	Centralize every 3rd joint from shoe to surface (bow spring)	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 ~200'-250' below the Big Injun base
	12-1/4"	9-5/8" 43.5# P-110 LTC	Gordon Elks Tully Marcellus Onondaga Salina Lockport Tuscarora Queenston Reedsville 2nd Intermediate Csg	3390 5165 7530 7670 7740 8620 9365 10590 10840 11860 11960	3390 5165 7530 7670 7740 8620 9365 10590 10840 11860 11960	AIR / Brine	Lead: 12.5 ppg Class A Yield = 2.03 TOL @ >= 200' above 13-3/8" shoe  Tail: 15.2 ppg Class A Yield = 1.24 TOT @ ~1000' above 9- 5/8" shoe  10% OH Excess TOC @ >= 200' above 13-3/8" shoe	Centralize every 3rd joint from shoe to TOC (bow spring)	Load hole with SOBMM prior to running casing Displace cement with SOBMM	Casing to be set ~100' TVD into the Reedsville  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
	8-1/2" Curve & Lateral	5-1/2" 23.0# Q-125 VAR	Utica Point Pleasant Production Casing	13130 13270 19825	13130 13270 13335	14.0-14.5 ppg SOBMM	15.6 ppg Class H 10% OH Excess Yield = 1.24 TOC @ ~7500'	Centralize every joint from shoe to KOP (single-piece/rigid bow centralizers)	Once at TD, circulate at max flowrate with max rotation until shakers clear-up (typically requires multiple bottoms-up). Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.	

LP @ +/- 13335' TVD

8-1/2" Hole - Cemented Long String  
 5-1/2" 23.0# Q-125 VAR

+/- 6067' Lateral

TD @ +/- 13335' TVD

8-1/2" Pilot Hole	Not Cased	Lexington	13345	14.0-14.5 ppg SOBMM	Plug back with cement from pilot hole TD to curve KOP
		Trenton	13440		
		Pilot Hole TD	13565		

61-01806

CNX Gas Company LLC

Conventional Operator Notice and Monitoring Plan – Hydraulic Fracturing Activity

**WDTN5Well Pad**

Monongalia, West Virginia



Purpose:

The purpose of this hydraulic fracturing monitoring plan is to identify and notify any potentially affected conventional well operators near planned CNX hydraulic fracturing activity.

CNX has evaluated the existing geologic conditions in the area, and the potential for communication between the geologic zone being stimulated by CNX and the zone being produced by the conventional wells exists.

This plan is being implemented as an additional safety measure to be utilized in conjunction with the existing best management practices and the site safety/emergency response plans included for the site.

1. Communications with Conventional Well Operators

CNX has identified all known conventional wells and well operators within five hundred feet (500') of this pad and lateral sections pursuant to WV Code 35 CSR 8(5.11). A list and map of these wells and operators is provided as **Attachment A**.

Upon approval of this plan, CNX will notify operators identified in the referenced attachment, via letter, of the anticipated fracturing schedule associated with this pad. A copy of this letter is included as **Attachment B**, and includes the recommended steps a conventional operator can take to ensure safe and compliant operations.

2. Reporting

CNX will provide information relating to the hydraulic fracturing schedule, any communication with conventional operators, and ongoing monitoring of the work upon request of the OOG or immediately in the event of any discovered abnormalities that create additional risk or concern.

**Attachment A:  
Map and List of Conventional Operators in the WDTN5 Project Area**

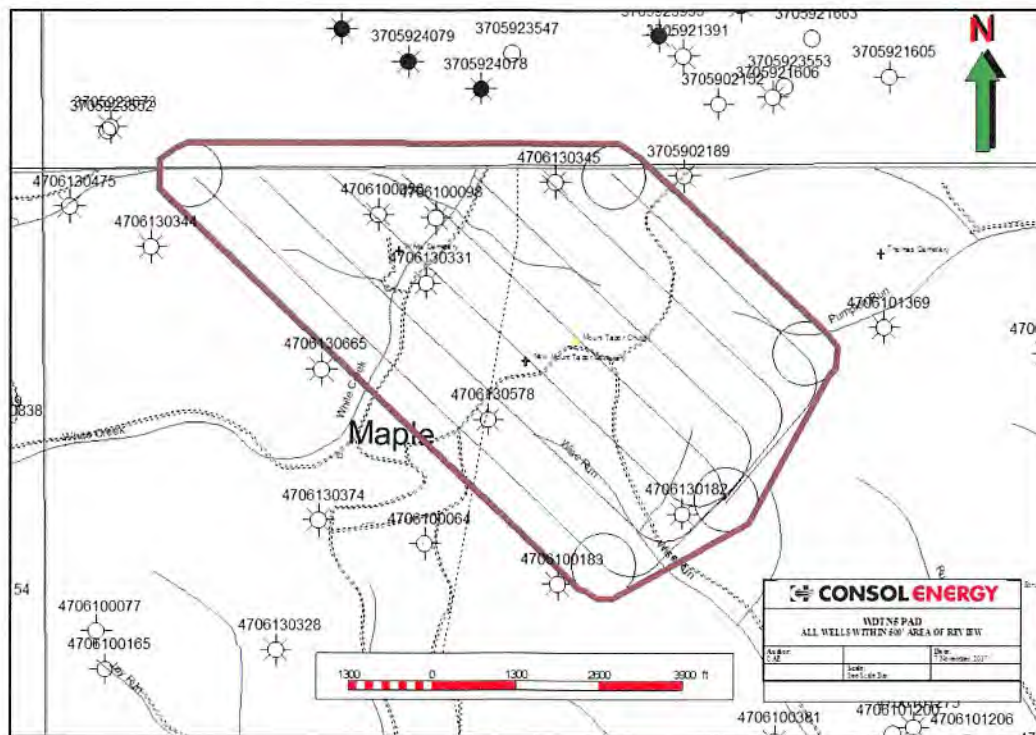


## WDTN5 Pad Frac - SOG Review

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 WDTN5 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, Current Status, Total Depth, and Permit Date.

The Utica and Point Pleasant shales of the Wadestown area are found at an approximate True Vertical Depth (TVD) of 13,200'. In the Wadestown area, there were very few wells that produced from formations deeper than the Bayard Sand (approximately 3500'). As a matter of fact, a review of all SOG wells with the 500' buffer revealed that there are no producing wells and all have been plugged. 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 WDTN5 Pad.

The likelihood for communication between Point Pleasant and Marcellus wells in the area is very low due to the confining layer properties of the Reedsville and Queenston shales, as well as the Salina interval, which serve as excellent frac barriers. A deep intermediate casing string is ran and cemented to the top of the Reedsville, mitigating any vertical communication on the annulus of the production casing.



Only 6 wells lie within a 500' buffer around the WDTN5 Pad and all have been plugged. No known SOG communication events have occurred in this area.



61-01806



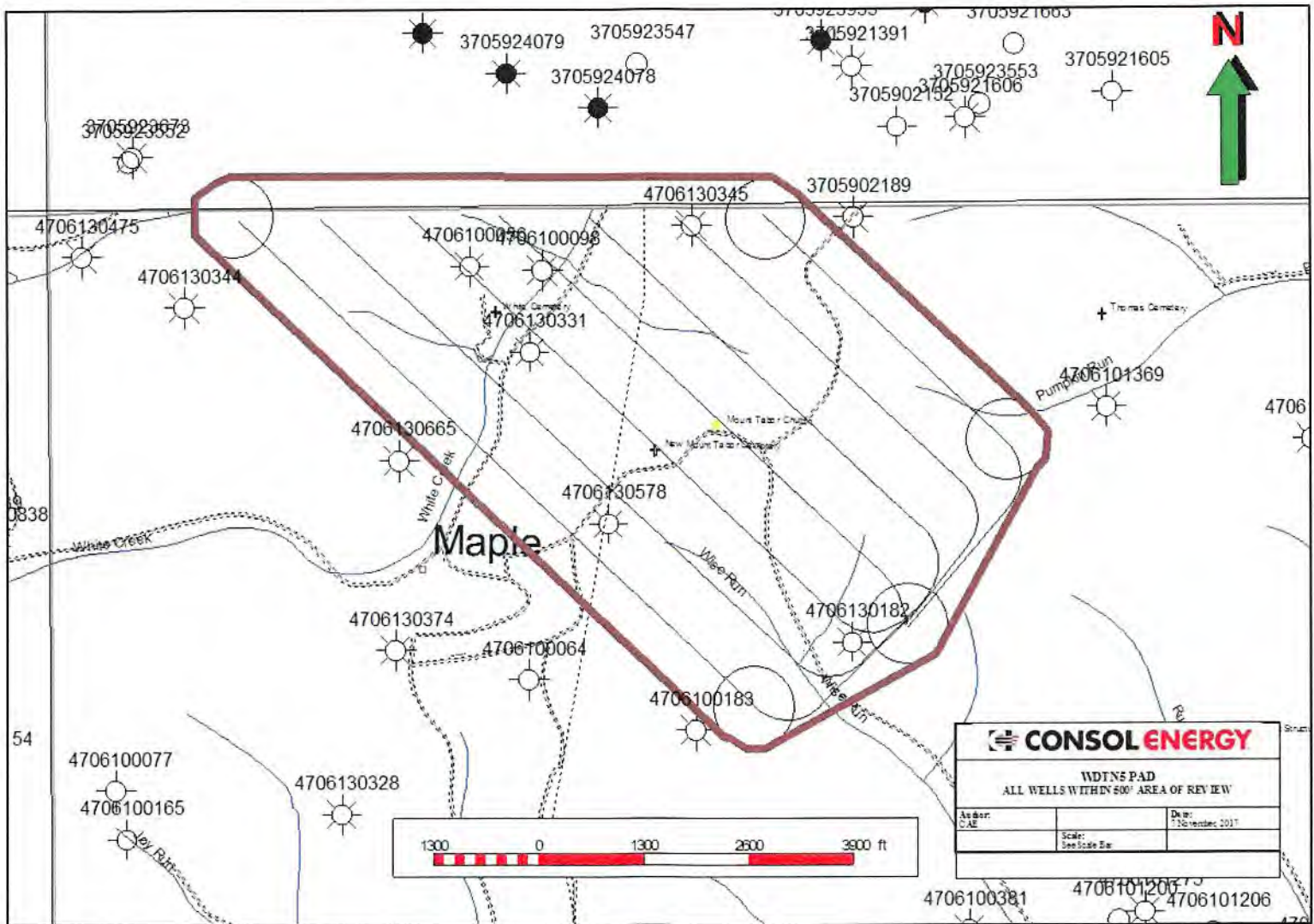
WDTN5 Pad Frac SOG Review / CRSD Review Monday, April 9, 2018

API	OPERATOR	WELL NAME	WELL #	STATUS	TD	STATUS COMMENTS	DISTANCE FROM LATERAL	PERMIT DATE
4706130345	Manufacturers Light and Heat Company	Hennen #1	1	P&A	3448	Plugged 3/15/1948	50'	1926
4706100098	Carnegie Production Company	Sarah J. White	1-555	P&A	3248	Plugged 1938	130'	1916
4706100056	Manufacturers Light and Heat Company	Alex White	2	P&A	3475	Plugged 11/23/1949	40'	1916
4706130331	Manufacturers Light and Heat Company	Thomas White Heirs	3	P&A	3331	Plugged 10/14/1946	220'	1925
4706130578	Equitable Gas Company	Jasper Shriver	5039	P&A	3154	Plugged 12/22/1953	330'	1913
4706130182	Pittsburgh & WV Gas	Zoa Wise	5375	P&A	3558	Plugged 1938	170'	1928

# WDTN5 PAD GEOLOGICAL PROGNOSIS

	Soil and Rock	Unknown		Top Soil and Rock
428	Zones of Potential circulation loss	WATER		
	Deepest Water Well Depth (within	WATER		
591	2500')			
	SURFACE / WATER STRING			
704	Waynesburg 2	0.95	no	
709	Waynesburg 1	3.24	yes	
970	Sewickley Coal	6.18	yes	Coal
1058	Roof Coal Zone	4.2	yes	
1063	Pittsburgh Coal	7.34	yes	
1155	COAL SEAM CASING DEPTH			
1530	Brush Creek Coal	0.76	no	
1643	Upper Freeport Coal	1.56	no	
1681	Lower Freeport Coal	1.47	no	
1745	Upper Kittanning Coal	1.18	no	Coal
1853	Lower Kittanning Coal	0.98	no	
1903	Clarion	1.55	no	
1973	Brookville Coal	0.1	no	
2475	Big Lime			Limestone
2565	Big Injun	GAS / WATER		Sand
2805	Price Formation			Shale
2950	INTERMEDIATE CASING DEPTH			
3255	50 Foot	OIL & GAS		Sandstone
3390	Gordon	GAS / WATER		Sandstone
3515	Fifth	GAS / WATER		Sandstone
3565	Bayard	OIL&GAS / WATER		Sandstone
5165	Elk	GAS		Siltstone
7145	Rhinestreet	GAS		Grey Shale
7360	Cashaqua	Confining Layer		Shale
7505	Burket	GAS		Black Shale
7530	Tully	Confining Layer		Limestone
7565	Hamilton			Grey Shale
7670	Upper Marcellus	GAS		Black Shale
7705	Purcell			Limestone
7710	Middle Marcellus	GAS		Black Shale
7720	Cherry Valley			Limestone
7725	Lower Marcellus	GAS		Black Shale
7740	Onondaga Limestone			Limestone
8005	Oriskany Sandstone			Sandstone
8090	Helderberg Limestone			Limestone
8620	Salina			Salt
9365	Lockport Dolomite			Dolomite
10040	Rochester Shale			Grey Shale
10590	Tuscarora Sandstone	GAS		Sandstone
10840	Queenston Shale			Red Shale
11860	Reedsville Shale	Confining Layer		Grey Shale
11955	SECOND INTERMEDIATE CASING			
13125	Utica Shale			Grey Shale
13245	Point Pleasant	GAS		Black Shale
13325	Lexington Limestone			Limestone
13365	Trenton Limestone			Limestone
13565	Planned Vertical TD			

# WDTN5 PAD WITH 500' AREA OF REVIEW



The WDTN5 Pad to be frac'd is in an area of no known frac communication with shallow wells.

API	OPERATOR	WELL NAME	WELL #	STATUS	TD	STATUS COMMENTS	DISTANCE FROM LATERAL	PERMIT DATE
4706130345	Manufacturers Light and Heat Company	Hennen #1	1	P&A	3448	Plugged 3/15/1948	50'	1926
4706100098	Carnegie Production Company	Sarah J. White	1-555	P&A	3248	Plugged 1938	130'	1916
4706100056	Manufacturers Light and Heat Company	Alex White	2	P&A	3475	Plugged 11/23/1949	40'	1916
4706130331	Manufacturers Light and Heat Company	Thomas White Heirs	3	P&A	3331	Plugged 10/14/1946	220'	1925
4706130578	Equitable Gas Company	Jasper Shriver	5039	P&A	3154	Plugged 12/22/1953	330'	1913
4706130182	Pittsburgh & WV Gas	Zoa Wise	5375	P&A	3558	Plugged 1938	170'	1928

All SOG wells above the WDTN5 pad have been plugged and were less than 3600' TD.

**Attachment B:  
Conventional Operator Notice Letter - Example**



**CNX Resources**

CNX Center  
1000 CONSOL Energy Drive  
Canonsburg, PA 15317-6506

**phone:** (724) 485 – 4040  
**e-mail:** PCR@cnx.com  
**web:** www.consolenergy.com

**CNX GAS PRODUCTION TEAM**

[Conventional Well Operator]  
[Address]  
[State]

**Re: Monongalia County Hydraulic Fracturing Notice**

Dear Sir or Madam,

CNX Gas Company LLC (CNX) has developed a Utica/Marcellus pad WDTN5 located in Monongalia County, West Virginia. Through CNX's evaluation pursuant to WV Code 35 CSR 8(5.11), you have been identified as the owner or operator of a well within a 500' radius of the surface location or lateral section of the wellbore. Due to the apparent presence of unique geological conditions, communication between CNX hydraulic fracturing operations and the identified well is a possibility. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in monitoring for changes that would indicate communication between your well(s) and our planned operation.

CNX anticipates conducting hydraulic fracturing activity at the WDTN5 Pad beginning as early as 1rd Quarter 2019 (Jan-March) and potentially continuing through 2th Quarter 2019 (April-June). Plats for each well being hydraulically fractured on this pad are included for your reference.

We recommend that conventional operators conduct the following activities before, during, and after fracturing operations.

- Inspect surface equipment prior to fracturing, to establish mechanical integrity and confirm well conditions.
- Monitor wells during and after fracturing and monitor for abnormal increases in fluid, gas, or pressure.
- Inspect and upgrade master valves or other necessary equipment for wellhead integrity as you see fit.
- Notify the OOG and CNX if any changes in fluid, gas production, pressure, or other conditions that cause abnormal risk or concern.

Please feel free to contact CNX's Production Control Room at 724-485-4040 (staffed 24/7) with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0499.

Sincerely,  
CNX Production



WW-9  
(4/16)

API Number 47 - 61 - 01806

Operator's Well No. WDTN5 B HSU

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 WDTN2 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. Land Application of soil conductor cuttings only, rock cuttings will be taken to an approved Landfill

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

-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 Raymond Hoon

Company Official (Typed Name) Raymond Hoon

Company Official Title Supervisor - Permitting

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WV Department of  
Environmental Protection

Commonwealth of Pennsylvania County of Washington  
Subscribed and sworn before me this 4th day of April, 2018

Lori L. Walker  
My commission expires February 23, 2019

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
Lori L. Walker, Notary Public  
Richhill Twp., Greene County  
My Commission Expires Feb. 23, 2019  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

**CNX Gas Company, LLC**

Proposed Revegetation Treatment: Acres Disturbed 46.90 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
Orchard Grass	25
Birdsfoot Trefoil	15
Ladino Clover	10

Seed Type	lbs/acre
Orchard Grass	25
Birdsfoot Trefoil	15
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: Hayme J. Katsowski

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Title: Inspector

Date: 4/4/2018

Field Reviewed? (  ) Yes (  ) No



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

**HSE APPROVED NON-HAZARDOUS WASTE DISPOSAL FACILITIES (version 05-23-2016)**

Republic Services (Allied Waste) Industrial Landfills		Gas Specific Waste Streams			Other Accepted Waste Streams								Contact Information
Landfill	Location	Drill * Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	
McLean County	Bloomington	IL	X	X	X	X	X	X	X	X	X		X
ERC/Coles County	Charleston	IL	X	X	X	X	X	X	X	X	X		X
Brickyard Disposal	Danville	IL	X	X	X	X	X	X	X	X	X		X
Southern Illinois Regional	De Soto	IL											X
Lee County	Dixon	IL	X	X	X	X	X	X	X	X	X		X
Upper Rock Island	East Moline	IL	X	X	X	X	X	X	X	X	X		X
Bond County	Greensville	IL	X	X	X	X	X	X	X	X	X		X
Illinois	Hoopeston	IL	X	X	X	X	X	X	X	X	X		X
LandComp	LaSalle	IL	X	X	X	X	X	X	X	X	X		X
Litchfield-Hillsboro	Litchfield	IL	X	X	X	X	X	X	X	X	X		X
Environtech	Morris	IL	X	X	X	X	X	X	X	X	X		X
Livingston	Pontiac	IL	X	X	X	X	X	X	X	X	X		X
Roxana	Roxana	IL	X	X	X	X	X	X	X	X	X	X	X
Sangamon Valley	Springfield	IL	X	X	X	X	X	X	X	X	X		X
Benson Valley	Frankfort	KY	X	X	X	X	X	X	X	X	X		X
Blue Ridge	Irvine	KY	X	X	X	X	X	X	X	X	X		X
Morehead	Morehead	KY	X	X	X	X	X	X	X	X	X		X
Green Valley	Rush	KY	X	X	X	X	X	X	X	X	X	X	X
Cherokee Run	Bellefontaine	OH			X	X	X	X	X	X	X		X
Williams County	Bryan	OH			X	X	X	X	X	X	X		X
County Environmental	Carey	OH			X	X	X	X	X	X	X		X
Celina	Celina	OH			X	X	X	X	X	X	X		X
Carbon-Limestone**	Lowellville	OH	X	X	X	X	X	X	X	X	X	X	X
Countywide Landfill**	East Sparta	OH	X	X	X	X	X	X	X	X	X		X
Lorain County	Oberlin	OH			X	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		X
Conestoga	Morgantown	PA			X	X	X	X	X	X	X		X
Brunswick	Lawrenceville	VA			X	X	X	X	X	X	X		X
King and Queen	Little Plymouth	VA			X	X	X	X	X	X	X		X
Old Dominion	Richmond	VA			X	X	X	X	X	X	X		X
Sycamore	Hurricane	WV			X	X	X	X	X	X	X		X
Short Creek	Wheeling (Short Creek)	WV	X	X	X	X	X	X	X	X	X		X
Carter Valley	Church Hill	TN											X

317-921-1667 or 480-627-2700  
1-800-634-0215

Jack Palermo:  
work: 330-536-8013  
cell: 330-806-9660  
  
Barbara Harsanye:  
work: 330-536-8013 x 120  
cell: 330-423-7267

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Environmental Protection

61-01806

Waste Management Industrial Landfills		Gas Specific Waste Streams			Other Accepted Waste Streams									Contact Information
Landfill	Location	Drill * Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	
Arden Landfill	Washington	PA	X	X	X	X	X	X			X	X	X	Scott Allen: 412-604-2256
South Hills (Armoni)	South Park	PA	X	X		X	X	X			X	X	X	
Kelly Run	Elizabeth	PA	X	X	X	X	X	X			X	X	X	
Valley Landfill	Irwin	PA	X	X	X	X	X	X	X	X	X	X	X	
Evergreen Landfill	Blairsville	PA	X	X	X	X	X						X	
Charleston Landfill (Kanawha County)	Charleston	WV	X	X	X	X	X	X			X		X	
Meadowfill Landfill	Bridgeport	WV	X	X	X	X	X	X	X	X	X	X	X	
Northwestern Landfill	Parkersburg	WV	X	X	X	X	X	X			X	X	X	
S&S Grading Landfill	Clarksburg	WV	X	X	X	X	X	X			X		X	
American Landfill	Waynesburg	OH	X	X	X	X	X	X	X	X	X	X	X	
Suburban RDF	Glenford	OH	X	X	X	X	X	X	X	X	X	X		
Coshocton Landfill***	Coshocton	OH	X	X	X	X	X						X	
Mahoning Landfill	New Springfield	OH	X	X	X	X	X			X	X		X	
Additional Landfills		Gas Specific Waste Streams			Other Accepted Waste Streams									Contact Information
Landfill	Location	Drill* Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	
Westmoreland Waste (WWLC Group)	111 Conner Lane, Belle Vernon, PA 15012	PA	X	X	X	X	X	X	X	X		X	X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694
MAX Environmental (Bulger Facility)	200 Max Drive, Bulger, PA 15019	PA	X	X	X	X	X	X				X	X	Carl Spadaro: 412-343-4900 cell: 412-445-9789
MAX Environmental (Yukon Facility)	233 MAX Lane, Yukon, PA 15698	PA	X	X	X	X	X	X				X	X	Joe Teterick: 740-275-2887 joet@els-company.com
Apex Sanitary landfill (Apex Environmental)	11 County Road 78, Amsterdam, Ohio 43903	OH	X	X	X	X	X	X				X	X	Carl Walter: 513-623-2471
Rumpke, Mt. Sterling (Rumpke Consolidated)	30 Larison Rd, Jeffersonville, KY 40337	KY	X	X	X	X	X		X	X			X	Bruce Crouch: Work: 606-864-7996 Cell: 606-219-0261
Laurel Ridge Landfill (Waste Connections of KY)	3612 E State Highway 552 Lily, KY 40740	KY	X	X	X	X	X		X	X	X		X	
Advanced Disposal	Chestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458	PA	X	X	X	X	X	X					X	Tony Labenne 6184 Route 219, Brockway, PA 15824 814-590-9906
	Greentree Landfill; 635 Toby Rd.; Kersey, PA	PA	X	X	X	X	X	X					X	
	Mostoller Landfill; 7035 Glades Pike Rd.; Somerset, PA	PA	X	X	X	X	X	X	X				X	

\*\* Ohio "TENORM" - requires Radium 226/228 analysis by load 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.

X 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 PADEP rules regarding "TENORM" testing requirement are pending.

Notes: \* Drill Cuttings include frac sand for the purpose of this table (Contact facility directly to verify waste streams accepted).

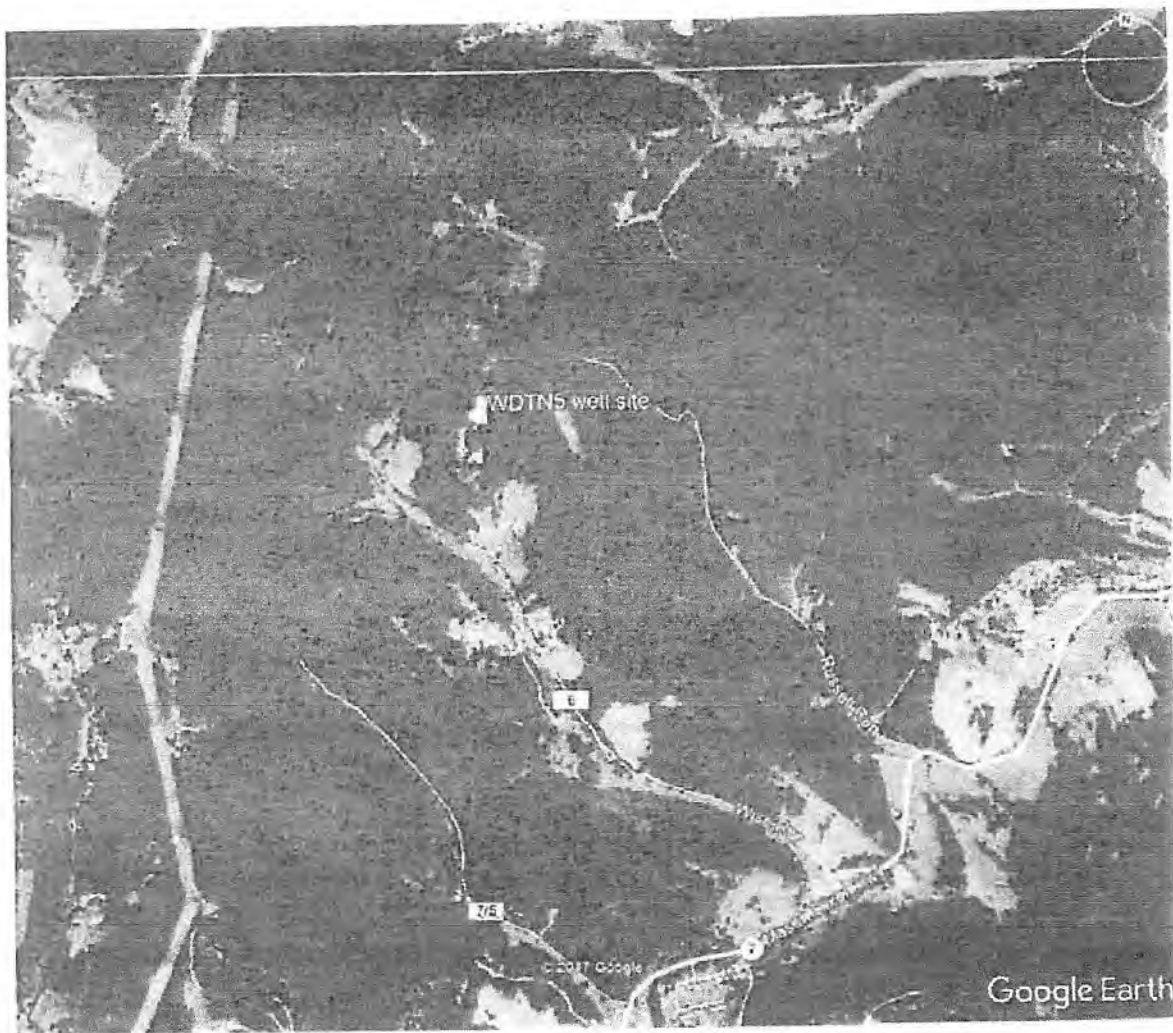
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U-1-01806



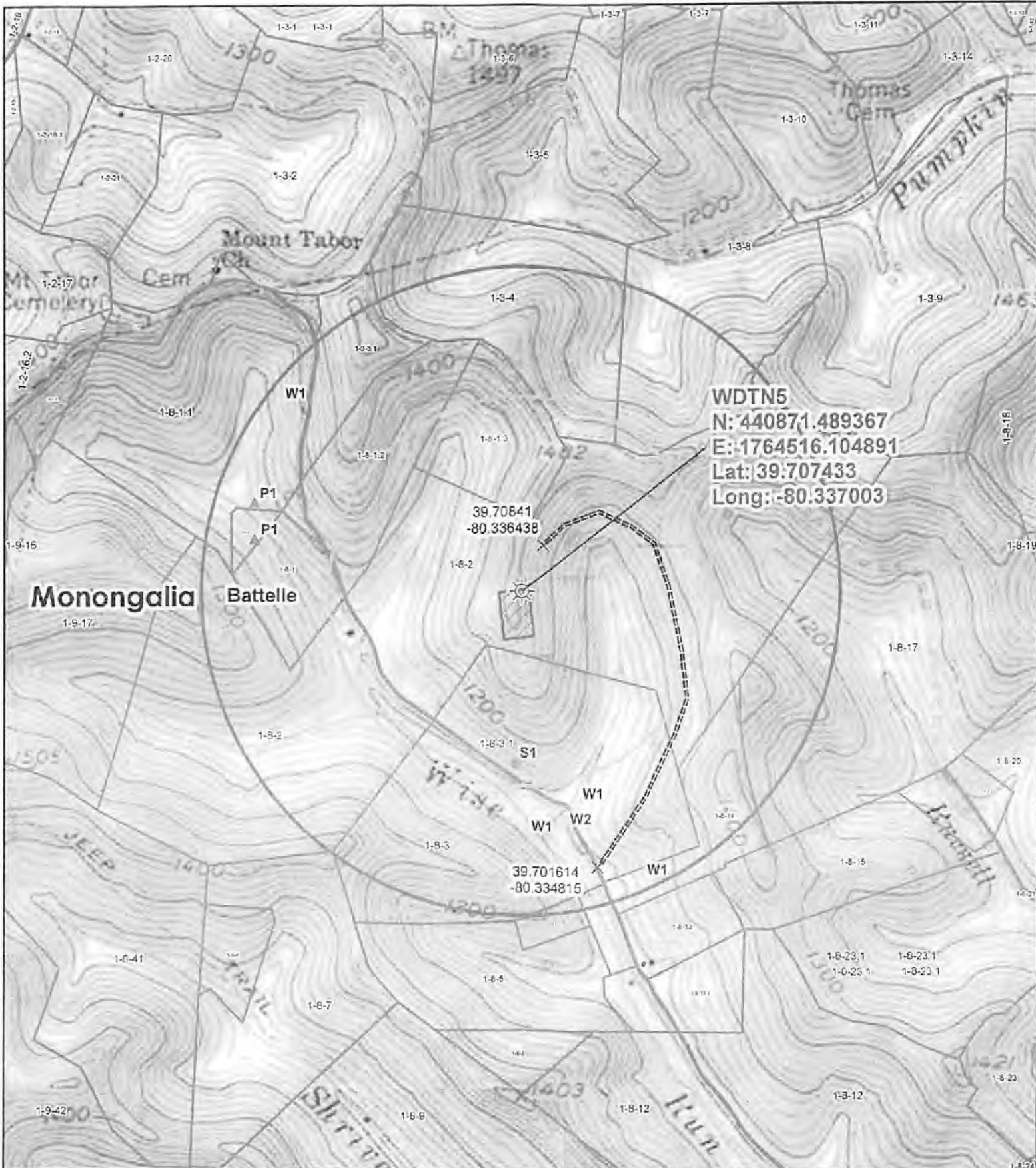


# Site Safety Plan for Well Site: WDTN5AHSU CNX Gas Company, LLC.



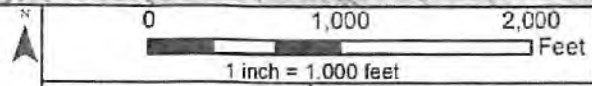
MDK 4/4/2018





**Legend**

- Wellbore
- Wells
- Spring
- Ponds
- Access Points
- Access Road
- 2,500 Foot Buffer
- 1,500 Foot Buffer
- Well Pad
- Surface Parcel



**CONSOLE ENERGY**  
CNX Center, Canonsburg, PA

Original Date: 11/13/2017	Prepared By: GIS
Revision Date: 11/13/2017	Approved By: GIS

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Topographic Well Map  
WDTN5 6 2018  
WV Department of  
Environmental Protection

WW-6A1  
(5/13)

Operator's Well No. WDTN5BHSU

**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.

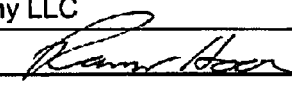
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APR 6 2010  
WV Department of Environmental Protection

**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

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.

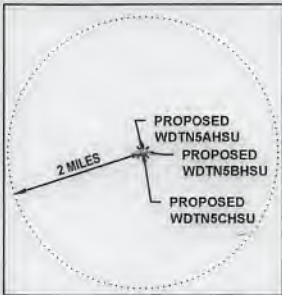
Well Operator: CNX Gas Company LLC  
 By: Raymond Hoon   
 Its: Permitting Supervisor



SHL is located on topo map 640 feet south of Latitude: 39° 42' 30"  
 BHL is located on topo map 10,830 feet south of Latitude: 39° 45' 00"

SHL

BHL is located on topo map 5,468 feet west of Longitude: 80° 20' 00"



DETAIL  
 UTICA WELLS WITHIN 2 MILE RADUIS  
 SCALE 1" = 15,000'

**SURFACE HOLE LOCATION (SHL)**  
 UTM 17 - NAD83(M)  
 N: 4395400.802  
 E: 558826.284  
 NAD27, WV NORTH  
 N: 440530.826  
 E: 1764427.453  
 LAT/LON - NAD83  
 LAT: 39°42'23.671"  
 LON: 80°20'13.575"

**APPROXIMATE LANDING POINT**  
 UTM 17 - NAD83(M)  
 N: 4395601.605  
 E: 556775.394  
 NAD27, WV NORTH  
 N: 441192.522  
 E: 1764271.452  
 LAT/LON - NAD83  
 LAT: 39°42'30.197"  
 LON: 80°20'15.649"

**BOTTOM HOLE LOCATION (BHL)**  
 UTM 17 - NAD83(M)  
 N: 4396886.550  
 E: 555446.854  
 NAD27, WV NORTH  
 N: 445481.671  
 E: 1759982.309  
 LAT/LON - NAD83  
 LAT: 39°43'12.188"  
 LON: 80°21'11.050"

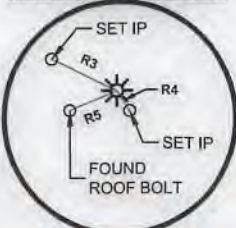
LINE #	BEARING	DISTANCE
R1	S13°33'08"W	929.50'
R2	N67°21'20"E	268.17'
R3	S64°35'32"E	379.02'
R4	N32°50'12"W	123.43'
R5	N67°21'20"E	268.17'

NO DEEP WELLS WITHIN 3000'

**LEGEND**

- TOPO MAP POINT
- PROPOSED WELL
- WATER SOURCE
- SPRING
- SURFACE TRACT
- LEASED NUMBER BASED ON ATTACHED WDTN5B
- RECORD GAS WELL
- UNKNOWN WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- LEASE BOUNDARY
- UNIT BOUNDARY
- PROPOSED HORIZONTAL WELL
- SURFACE, OIL & GAS LINES
- SURFACE TRACT LINES ONLY
- GAS LEASE LINES ONLY
- WELL REFERENCE
- STREAM/WATERWAY
- ROAD
- FORCED POOLING AREAS

**REFERENCE DETAIL**



**Sheffler & Company, Inc.**  
 ENGINEERING • SURVEYING

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

MINERAL TRACT BOUNDARY = 590.077 ACRES  
 UNIT BOUNDARY = 240.385 ACRES

**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.

FILE #: WDTN5IHSM  
 DRAWING #: 3601 - WDTN5B.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:   
 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



DATE: April 3, 2018, Rev. July 18, 2018  
 OPERATOR'S WELL #: WDTN5BHSU H6A  
 API WELL # 47 061 01806  
 STATE COUNTY PERMIT

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

WATERSHED: DUNKARD CREEK ELEVATION: 1412'  
 COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV  
 SURFACE OWNER: JOHN M. WISE, ET UX., ET AL. ACREAGE: 207.36  
 OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.36

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: POINT PLEASANT ESTIMATED DEPTH: PILOT TVD 13,565' ±, TVD: 13,335' ±, TMD: 19,825' ±  
 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: April 3, 2018, Rev. July 18, 2018

OPERATOR'S WELL #: WDTN5BHSU *HWA*

API WELL # 47 061 *01806*  
STATE COUNTY PERMIT

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

WATERSHED: DUNKARD CREEK ELEVATION: 1412'  
COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV  
SURFACE OWNER: JOHN M. WISE, ET UX., ET AL. ACREAGE: 207.36  
OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.36

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: POINT PLEASANT ESTIMATED DEPTH: PILOT TVD 13,565' ±, TVD: 13,335' ±, TMD: 19,825' ±  
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



WDTN5BHSU UNIT = 240.385 ACRES TOTAL		
BATTELLE DISTRICT		
#	TAX MAP & PARCEL	UNIT ACRES
1	1-8, P/O PARCEL 2	48.599 Ac.
2	1-8, P/O PARCEL 3.1	9.690 Ac.
3	1-8, P/O PARCEL 1.3	11.442 Ac.
4	1-8, P/O PARCEL 1.2	18.345 Ac.
5	1-3, P/O PARCEL 3.1	14.395 Ac.
6	1-8, P/O PARCEL 1.5	0.004 Ac.
7	1-8, P/O PARCEL 1.1	19.419 Ac.
8	1-3, PARCEL 3	0.923 Ac.
9	1-2, P/O PARCEL 22	0.061 Ac.
10	1-2, PARCEL 24	3.287 Ac.
11	1-3, P/O PARCEL 2	15.564 Ac.
12	1-2, P/O PARCEL 21	17.163 Ac.
13	1-2, P/O PARCELS 18 & 18.1	18.298 Ac.
14	1-3, P/O PARCEL 2	19.113 Ac.
15	1-2, P/O PARCEL 20	5.369 Ac.
16	1-2, P/O PARCEL 19	38.713 Ac.

**SURFACE TRACT OWNERS & TAX PARCEL**

- |   |              |
|---|--------------|
| 1. DINA M WISE ET AL                                | TM# 1-8-2    |
| 2. BARBARA J WAGNER                                 | TM# 1-8-3.1  |
| 3. EDWARD L THOMAS, DAVID WAYNE & DOROTHY L STEWART | TM# 1-8-1.3  |
| 4. DAVID W & ELIZABETH K DEATON                     | TM# 1-8-1.2  |
| 5. STEVEN M MACYDA                                  | TM# 1-3-3.1  |
| 6. GARY L & ARLENE ANN NEELY                        | TM# 1-8-1.5  |
| 7. STEVEN M MACYDA                                  | TM# 1-3-3    |
| 8. MT TABOR M E CHURCH                              | TM# 1-2-24   |
| 9. GARY L & ARLENE ANN NEELY                        | TM# 1-8-1.1  |
| 10. MT TABOR CEMETERY                               | TM# 1-2-22   |
| 11. CONSOL MINING COMPANY LLC                       | TM# 1-3-2    |
| 12. ROY LEE JR & ERICA E HALL                       | TM# 1-2-21   |
| 13. ROY L HALL                                      | TM# 1-2-20   |
| 14. LEONARD EDWARD HALL JR                          | TM# 1-2-18.1 |
| 15. JASON BRIAN & LINDSEY R HALL                    | TM# 1-2-18   |

Tract ID	Tax Map & Parcel	Grantor, Lessor, etc	Surface Owner
1	1-8-2	Richard W. Wise	DINA M WISE ET AL
		Donald Wise	
		Thomas E. McCauley	
		Richard L. McCauley	
		Judy A. Eckman	
		Robert Stewart	
		Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen	
		Clifford J. Wise	
		Regina Wise Myers AKA Violet Regina Myers	
		Eleanor J. Wise	
		Walter C. Ord	
		James Freeman Stewart	
		Victor E. Wise	
		Zelda Ruth Brummage	
		Evaloe A. Everly Shaheen	
		Dexter Murlie Stewart	
2	1-8-3.1	Justin P. Stewart	BARBARA J WAGNER
		Annette E. Stewart	
		Debora Goff	
		Waller R. Currence	
		Maureen S. Currence	
		Michelle L. Currence	
		Phyllis J. Petrosky	
		Jesse D. Jones	
		Harold M. Jones, Jr.	
		Fred C. Wise and Alice F. Wise	
		Linda Stapp	
		Richard A. Nunley and Diana K. Nunley	
		Patricia J. Mumaw and Richard L. Mumaw	
		Donald E. Nunley	
		Mary Nunley Stepelton and Donald Stepelton	
		3	
Melissa Bookout			
Eileen Ann Lyle			
Robert Eugene Michael, Sr. and Darlene Ann Michael			
Frank Dennis Michael, Jr. and Mary Frances Michael			
Evelyn June Michael			
Tanya Chersin a/k/a Tonya Chersin a/k/a Tonya L. Chersin			
Boyd Hawkins and Kari J. Hawkins			
Becky Bortnick Hawkins			
Barbara J. Wagner			
Donald L. White, individually and as agent for Helen J. Shriver, Larry L. Shriver, David B. Shriver, Robert A. Shriver, Shannon R. Shriver, George H. Shriver, Anne D. Coon, Harriet E. Rodriguez, Jack L. Shriver, Wilma S. Shriver, Linda L. White, Barbara Sue Shriver, individually and as Trustee of the Shriver Family Trust, and Gregory L. Shriver, Trustee of the Shriver Family Trust			
Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008			
CBC Holdings, LLC			
Edward L. Thomas and Diana Lee Thomas			
David Wayne Thomas			
Dorothy L. Stewart and Harold L. Stewart Jr.			
4	1-8-1.2	Earl W. Kennedy	DAVID W & ELIZABETH K DEATON
		CBC Holdings, LLC	
		David W. Deaton and Elizabeth K. Deaton	
		Earl W. Kennedy	
		CBC Holdings, LLC	
		Steven M. Macyda	
		Earl W. Kennedy	
		CBC Holdings, LLC	
		Gary L. Neely and Arlene Neely	
		Earl W. Kennedy	
		CBC Holdings, LLC	
		Gary L. Neely and Arlene Neely	
		Earl W. Kennedy	
		Steven M. Macyda	
		Earl W. Kennedy	
		5	
Earl W. Kennedy			
Mt. Tabor Methodist Episcopal Church			
Earl W. Kennedy			
CBC Holdings, LLC			
Lucy Mae Stickley			
Marian R. Stone Garrett			
Patricia K. W. Hoekstra			
Richard H. Benson, II			
Alvy S. White			
Anita Talbott			
Karen I. Meyers			
Carol S. White Davis			
Edwin R. White II			
Robert Tate Jr.			
6	1-8-1.5		Frederick Tate
		Timothy Tate Jr.	
		Timothy Tate Jr.	

(+) 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 Sewickley, PA 15143 Phone: 412-219-4509 Email: info@shefflerCo.com

DATE: April 3, 2018, Rev. July 18, 2018

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

OPERATOR'S WELL #: WDTN5BHSU 44A  
API WELL # 47 STATE 061 COUNTY 01806 PERMIT

WATERSHED: DUNKARD CREEK ELEVATION: 1412'  
COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV  
SURFACE OWNER: JOHN M. WISE, ET UX., ET AL. ACREAGE: 207.36  
OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.36

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: POINT PLEASANT ESTIMATED DEPTH: PILOT TVD 13,565' ±, TVD: 13,335' ±, TMD: 19,825' ±  
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
11 (CONT.)	1-3-2	Alex Tate	CONSOL MINING COMPANY LLC
		Jennifer Marie Carrington	
		Robert S. Elliot	
		Jane E. McIntyre and Glenn C. McIntyre	
		Jan W. Ellison and Thomas A. Ellison	
		Marianne Ann Borkowski and Marc Borkowski	
		Edith B. White	
		Nancy Emerick	
		Betty Ann Reed	
		David Ray Stone	
		Donald E. Stone	
		Doris Jean White	
		Sandra Pixler	
		Victor A. White (4/147)	
		Melinda Reid Hatton (2/147)	
12	1-2-21	Cheryl Lynn Bennett Frankenfield	ROY LEE JR & ERICA E HALL
		Connie Lee Norwood	
		Beth Ellen Younciak, a/k/a Beth Ellen Bennett	
		Ewing Albert Bennett	
		Cheryl Lynn Bennett Frankenfield	
		Emily B. Vallin	
		Jennifer Sue Carpenter	
		Shirley Dotterer Wadsworth	
		Kathryn Dotterer Vahl	
		Thelma R. Dotterer Chowning	
		Marc D. Prochazka	
		Richard Leslie Puchstein	
		Carl Eric Puchstein	
		Violet Jean Puchstein, a/k/a Jean Steen Puchstein, individually and as Trustee of the Jean Steen Puchstein Trust U/A dated October 8, 2014	
		John William Bennett	
13	1-2-18 & 1-2-18.1	John Samuel Stewart	JASON BRIAN & LINDSEY R HALL, LEONARD EDWARD HALL JR
		Samuel William Stewart and Barbara C. Stewart	
		Merrion Oil and Gas Corporation	
14	1-3-2	Hu's Land and Minerals LLC	CONSOL MINING COMPANY LLC
		David Charles White and Regina Sue White	
		Lucy Mae Stickley	
		Marian R. Stone Garrett	
		Patricia K. W. Hoekstra	
		Richard H. Benson, II	
		Alvy S. White	
		Anita Talbott	
		Karen I. Meyers	
		Carol S. White Davis	
		Edwin R. White II	
		Robert Tate Jr.	
		Frederick Tate	
		Timothy Tate Jr.	
		Alex Tate	
15	1-2-20	Merrion Oil and Gas Corporation	ROY L HALL
16	1-2-19	Hu's Land and Minerals LLC	ROY L HALL
		Merrion Oil and Gas Corporation	
		Hu's Land and Minerals LLC	

(+) 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 Sewickley, PA 15143 Phone: 412-219-4509 Email: info@shefflerCo.com

DATE: April 3, 2018, Rev. July 18, 2018

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

OPERATOR'S WELL #: WDTN5BHSU *146A*  
API WELL # 47 STATE 061 COUNTY PERMIT *01806*

WATERSHED: DUNKARD CREEK ELEVATION: 1412'  
COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV  
SURFACE OWNER: JOHN M. WISE, ET UX., ET AL. ACREAGE: 207.36  
OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.36

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: POINT PLEASANT ESTIMATED DEPTH: PILOT TVD 13,565' ±, TVD: 13,335' ±, TMD: 19,825' ±  
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	Title Opinion OLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1	✓ 1-9-2	189010000	Richard W. Wise	CNX Gas Company, LLC	Not less than 1/8	1516/36
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Richard W. Wise and Sandra S. Wise	CNX Gas Company, LLC	Lease Amendment	1595/13
			Donald Wise	CNX Gas Company, LLC	Not less than 1/8	1516/486
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Thomas E. McCauley	CNX Gas Company, LLC	Not less than 1/8	1442/715
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/270
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Richard L. McCauley	CNX Gas Company, LLC	Not less than 1/8	1442/707
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/270
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Judy A. Eckman	CNX Gas Company, LLC	Not less than 1/8	1442/711
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/270
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Robert Stewart	CNX Gas Company, LLC	Not less than 1/8	1520/433
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	131/212
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen	CNX Gas Company, LLC	Not less than 1/8	1520/481
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Clifford J. Wise	CNX Gas Company, LLC	Not less than 1/8	1525/130
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Regina Wise Myers AKA Violet Regina Myers	CNX Gas Company, LLC	Not less than 1/8	1450/740
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/270
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Eleanor J. Wise	CNX Gas Company, LLC	Not less than 1/8	1501/809
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	128/617
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Walter C. Ord	CNX Gas Company, LLC	Not less than 1/8	1501/803
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	128/617
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			James Freeman Stewart	CNX Gas Company, LLC	Not less than 1/8	1501/806
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	128/617
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Victor E. Wise	CNX Gas Company, LLC	Not less than 1/8	1501/813
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	128/617
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Zelda Ruth Brummage	CNX Gas Company, LLC	Not less than 1/8	1500/762
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	126/654
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			EvaLee A. Every Shaheen	CNX Gas Company, LLC	Not less than 1/8	1501/321
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	126/654
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Dexter Murle Stewart	CNX Gas Company, LLC	Not less than 1/8	1500/277
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	126/654
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Justin P. Stewart	CNX Gas Company, LLC	Not less than 1/8	1520/625
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Annette E. Stewart	CNX Gas Company, LLC	Not less than 1/8	1510/806
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	128/628
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Dabora Goff	CNX Gas Company, LLC	Not less than 1/8	1529/256
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Walter R. Currence	CNX Gas Company, LLC	Not less than 1/8	1524/530
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Maureen S. Currence	CNX Gas Company, LLC	Not less than 1/8	1520/781
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Michelle L. Currence	CNX Gas Company, LLC	Not less than 1/8	1528/431
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	131/212
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Phyllis J. Petrosky	CNX Gas Company, LLC	Not less than 1/8	1510/203
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	128/628
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Jesse D. Jones	CNX Gas Company, LLC	Not less than 1/8	1509/468
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Harold M. Jones, Jr.	CNX Gas Company, LLC	Not less than 1/8	1511/101
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	128/628
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Fred C. Wise and Alica F. Wise	CNX Gas Company, LLC	Not less than 1/8	1597/39
			Linda Stepp	CNX Gas Company, LLC	Not less than 1/8	1602/621
			Richard A. Nunley and Diana K. Nunley	CNX Gas Company, LLC	Not less than 1/8	1597/99













4706101806

**MEMORANDUM OF LEASE  
(West Virginia)  
243015000**

THIS MEMORANDUM OF LEASE (this "Memorandum") is made and entered into as of the 2<sup>nd</sup> day of February, 2018, and effective as of the 13<sup>th</sup> day of February, 2018 (the "Effective Date"), by and between Mt. Tabor United Methodist Church by its Trustees; Roy L. Hall, Victoria Hall, John L. Miller, Karen Miller, Sonya Miller, Adam Miller, Barbara Wagner, Lillian Wagner, Beto Gorostieta, Bill Areheart, Lynda Areheart and Leonard Hall, with an address at 71 Country Road, Fairview, WV 26570 ([collectively,] "Lessor"), and CNX Gas Company LLC, a Virginia limited liability company, with an address at 1000 CONSOL Energy Drive, Canonsburg, Pennsylvania 15317-6506 ("Lessee") (each a "Party," and together the "Parties").

WHEREAS, Lessor and Lessee have entered into a certain Oil and Gas Lease further described below (the "Lease") whereby Lessor has leased to Lessee certain oil and gas estates, interests and appurtenant rights more particularly described below and in the Lease; and

WHEREAS, in lieu of recording the Lease, the Parties have executed, acknowledged and delivered this Memorandum for recordation pursuant to W.Va. Code § 40-1-8 et seq. Capitalized terms used but not defined herein shall refer to terms defined in the Lease.

NOW, THEREFORE, Lessor and Lessee, intending to be legally bound, hereby publish and give notice of the tenancy created and certain of the rights granted by and obligations under the Lease, as follows:

**1. NAME AND ADDRESS OF LESSOR:**

Mt Tabor United Methodist Church  
71 Country Road  
Fairview, WV 26570

**2. NAME AND ADDRESS OF LESSEE:**

CNX Gas Company LLC  
1000 CONSOL Energy Drive  
Canonsburg, PA 15317

**3. DATE OF LEASE EXECUTION/EFFECTIVE DATE:**Date of execution of Lease: Feb, 2, 2018Effective Date of Lease: February, 13<sup>th</sup> 2018**4. DESCRIPTION OF SUBJECT PREMISES:**

All oil, gas, and their liquid and/or gaseous constituents, whether hydrocarbon or non-hydrocarbon and all other substances produced therewith (collectively, whether any of the foregoing, the "Leased Oil/Gas") from all subsurface strata, formations, voids, and zones underlying the Leased Premises located in Battelle District, Monongalia County, West Virginia, Property Tax Parcel Identification No.'s 31-01-0002-0022-0000 and 31-01-0002-0024-0000, said parcels being more particularly described by instrument dated June 18, 1841, and recorded at OS 18, Page 186, by instrument dated October 15, 1888 and recorded at Deed Book 42, Page 198, by instrument dated October 24, 1902, and recorded at Deed Book 89, Page 159, and by instrument dated October 29, 1902, and recorded at Deed Book 89, Page 160, containing approximately 5.00 acres, (collectively, the "Leased Premises"), together with a non-exclusive subsurface easement through all formations for the purpose of accessing, exploring, developing, and producing the Leased Oil/Gas. Lessor hereby grants and leases exclusively to Lessee all rights necessary, convenient, or incident to explore, drill, develop, produce, treat, transport and market Leased Oil/Gas and otherwise conduct Operations on and about the Leased Premises and any lands pooled or unitized with the Leased Premises using all available methods and techniques under current and future technology, including, without limitation, the following rights: to have full and free access over and through the Leased Premises; to conduct geological, geophysical, core drilling and other exploratory work; to drill, re-drill, lengthen, re-work, stimulate, fracture, plug, remove and/or abandon vertical or horizontal wells, and to inject under pressure water, air, brine and other fluids and substances (including, without limitation, non-domestic water from the Leased Premises, free of cost) into subsurface strata and/or withdraw the same therefrom; to erect and operate drill sites and drilling rigs and related facilities to treat, separate, compress, dehydrate, process, gather, and measure and shut-in Leased Oil/Gas, together with all other equipment, structures and facilities that Lessee deems desirable for use in its operations; to construct, use and operate roads, utility lines, canals, impoundments and pits; to install and operate pipelines, tanks, pumps, compressors, condensers and other equipment and facilities for use in transporting Leased Oil/Gas from the Leased Premises and from other lands, over and through the Leased Premises (all of the foregoing activities are collectively referred to herein as "Operations"); and to have and enjoy all rights and privileges reasonably necessary or appropriate to effectuate the purposes of this Lease.



5. **TERM OF LEASE:**

- A. **Primary Term.** This Lease shall remain in force for a term of five (5) years following the Effective Date (the "**Primary Term**").
- B. **Secondary Term.** This Lease shall remain in full force and continue following the Primary Term as to the entirety of the Leased Premises for so long thereafter as any of the following circumstances exist (such period, the "**Secondary Term**"): (i) Lessee is conducting any Operations on the Leased Premises or any lands pooled or unitized therewith; (ii) any of the Leased Oil/Gas are being produced in commercial quantities from the Leased Premises or any lands pooled or unitized therewith; (iii) any well on the Leased Premises or on any lands pooled or unitized therewith is Shut-In; or (iv) this Lease is otherwise extended by Force Majeure, Equitable Tolling, or other terms hereof.

6. **RENEWAL OR EXTENSION RIGHTS: NONE**

7. **RIGHT OF PURCHASE, RIGHT OF FIRST REFUSAL AND/OR OPTIONS:**

In the event that Lessor receives from any third party any bona fide offer to grant an additional oil and/or gas lease covering all or part of the Leased Premises within the Term, Lessor shall provide Lessee with a written notice of such offer by certified mail, including the proposed lessee's name, bonus consideration and royalty consideration, and a true, correct and complete copy of the proposed lease. Lessee shall have ninety (90) days following receipt of such written notice to elect to exercise a right of first refusal, in Lessee's sole and absolute discretion, to enter into an oil and gas lease with Lessor on the same terms and conditions as set forth in the proposed lease. Should Lessee so elect, Lessee shall notify Lessor in writing within such ninety (90) day period and submit therewith a lease with Lessee containing the same terms and conditions and, if so desired by Lessee, a memorandum of such lease for recordation. Within ten (10) days after receipt of such signed lease and memorandum of lease (if any) back from Lessor, Lessor shall counter-sign and return such lease and memorandum of lease (if any) to Lessee together with the bonus payment required under such lease. No single exercise of the foregoing right of first refusal shall exhaust any rights granted hereunder to subsequent offers covering all or any part of the Leased Premises. Any additional lease granted to any third party by Lessor in violation of this provision shall be null and void.

8. **EXECUTION:**

This Memorandum may be executed in any number of counterparts, each having the same validity and all of which shall constitute but one and the same instrument.

**THIS MEMORANDUM IS NOT A COMPLETE SUMMARY OF THE LEASE. IN THE EVENT OF A CONFLICT BETWEEN THE TERMS OF THIS MEMORANDUM AND THOSE OF THE LEASE, THE TERMS OF THE LEASE SHALL CONTROL.**

4706101806

IN WITNESS WHEREOF, Lessor and Lessee, intending to be legally bound, have executed this Memorandum effective as of the Effective Date (whether executed by either Party on, before or after the Effective Date).

LESSOR:  
Mt Tabor United Methodist Church

LESSEE:  
CNX Gas Company LLC

By: \_\_\_\_\_  
Name: Timothy Surmick  
Title: Assistant Vice President

\_\_\_\_\_  
By: Roy L. Hall, Trustee

\_\_\_\_\_  
By: Victoria Hall, Trustee

*John L. Miller*  
\_\_\_\_\_  
By: John L. Miller, Trustee

*Karen Miller*  
\_\_\_\_\_  
By: Karen Miller, Trustee

*Sonya Miller*  
\_\_\_\_\_  
By: Sonya Miller, Trustee

*Adam Miller*  
\_\_\_\_\_  
By: Adam Miller, Trustee

*Barbara Wagner*  
\_\_\_\_\_  
By: Barbara Wagner, Trustee

*Lillian Wagner (T)*  
\_\_\_\_\_  
By: Lillian Wagner, Trustee

*Beto Gorostieta*  
\_\_\_\_\_  
By: Beto Gorostieta, Trustee

*Bill Arheart*  
\_\_\_\_\_  
By: Bill Arheart, Trustee

*Lynda Arheart*  
\_\_\_\_\_  
By: Lynda Arheart, Trustee

*Leonard Hall*  
\_\_\_\_\_  
Leonard Hall, Trustee

4706101806

IN WITNESS WHEREOF, Lessor and Lessee, intending to be legally bound, have executed this Memorandum effective as of the Effective Date (whether executed by either Party on, before or after the Effective Date).

LESSOR:  
Mt Tabor United Methodist Church

LESSEE:  
CNX Gas Company LLC

By: \_\_\_\_\_  
Name: Timothy Surmick  
Title: Assistant Vice President

Roy L. Hall  
By: Roy L. Hall, Trustee

Victoria Hall  
By: Victoria Hall, Trustee

\_\_\_\_\_  
By: John L. Miller, Trustee

\_\_\_\_\_  
By: Karen Miller, Trustee

\_\_\_\_\_  
By: Sonya Miller, Trustee

\_\_\_\_\_  
By: Adam Miller, Trustee

\_\_\_\_\_  
By: Barbara Wagner, Trustee

\_\_\_\_\_  
By: Lillian Wagner, Trustee

\_\_\_\_\_  
By: Beto Gorostieta, Trustee

\_\_\_\_\_  
By: Bill Areheart, Trustee

\_\_\_\_\_  
By: Lynda Areheart, Trustee

\_\_\_\_\_  
Leonard Hall, Trustee



4706101806

ACKNOWLEDGMENTS

STATE/Commonwealth of FLORIDA  
COUNTY OF HIGHLANDS

The foregoing instrument was acknowledged before me on the 10 day of FEB, 2018 by Mt. Tabor Methodist Church by its Trustees; Roy L. Hall and Victoria Hall, whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.

(Notarial Seal)



MICHAEL ERIC CAVE  
MY COMMISSION # GG 043182  
EXPIRES: November 5, 2020  
Bonded Through Budget Notary Services

[Signature]

NOTARY PUBLIC

My commission expires 5 NOV 2020

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me on the \_\_\_\_ day of \_\_\_\_\_, 2018 by Mt. Tabor Methodist Church by its Trustees; John L. Miller and Karen Miller whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.

(Notarial Seal)

\_\_\_\_\_  
NOTARY PUBLIC

My commission expires \_\_\_\_\_

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me on the \_\_\_\_ day of \_\_\_\_\_, 2018 by Mt. Tabor Methodist Church by its Trustees; Sonya Miller and Adam Miller, whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.

(Notarial Seal)

\_\_\_\_\_  
NOTARY PUBLIC

My commission expires \_\_\_\_\_

ACKNOWLEDGMENTS

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me on the \_\_\_\_ day of \_\_\_\_\_, 2018 by Mt. Tabor Methodist Church by its Trustees; Roy L. Hall and Victoria Hall, whose name(s) is/are signed hereto.

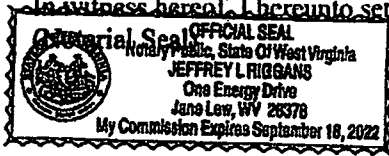
In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)

\_\_\_\_\_  
NOTARY PUBLIC  
My commission expires \_\_\_\_\_

STATE/Commonwealth of WVA  
COUNTY OF MONONGALIA

The foregoing instrument was acknowledged before me on the 2<sup>nd</sup> day of FEB, 2018 by Mt. Tabor Methodist Church by its Trustees; John L. Miller and Karen Miller whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.

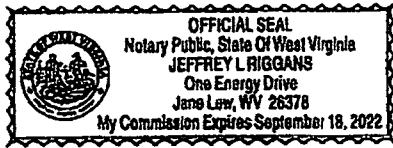


\_\_\_\_\_  
NOTARY PUBLIC  
My commission expires 9-18-22

STATE/Commonwealth of WVA  
COUNTY OF MONONGALIA

The foregoing instrument was acknowledged before me on the 2<sup>nd</sup> day of FEB, 2018 by Mt. Tabor Methodist Church by its Trustees; Sonya Miller and Adam Miller, whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)



\_\_\_\_\_  
NOTARY PUBLIC  
My commission expires 9-18-22

4706101806

STATE/Commonwealth of WVA  
COUNTY OF MONONGALIA

The foregoing instrument was acknowledged before me on the 2<sup>nd</sup> day of Feb, 2018 by Mt. Tabor Methodist Church by its Trustees; Barbara Wagner and Lillian Wagner, whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)

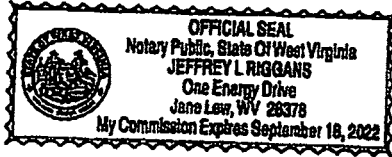


[Signature]  
NOTARY PUBLIC  
My commission expires 9-18-22

STATE/Commonwealth of WVA  
COUNTY OF MONONGALIA

The foregoing instrument was acknowledged before me on the 2<sup>nd</sup> day of Feb, 2018 by Mt. Tabor Methodist Church by its Trustees; Beto Gorostieta, whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)

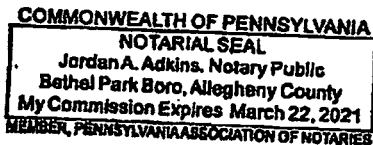


[Signature]  
NOTARY PUBLIC  
My commission expires 9-18-22

STATE/Commonwealth of Pennsylvania  
COUNTY OF Allegheny

The foregoing instrument was acknowledged before me on the 6<sup>th</sup> day of February, 2018 by Mt. Tabor Methodist Church by its Trustees; Bill Areheart and Lynda Areheart whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)



[Signature]  
NOTARY PUBLIC  
My commission expires 3-22-2021



4706101806

STATE/Commonwealth of WVA  
COUNTY OF Monongalia

The foregoing instrument was acknowledged before me on the 2nd day of Feb,  
2018 by **Mt. Tabor Methodist Church** by its Trustees; **Leonard Hall**, whose name(s) is/are  
signed hereto.

In witness hereof, I hereunto set my hand and official seal.

(Notarial Seal)



[Signature]  
NOTARY PUBLIC  
My commission expires 9-18-22

COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF WASHINGTON

The foregoing instrument was acknowledged before me on the \_\_\_ day of \_\_\_\_\_,  
2018 by **Timothy Surmick**, who acknowledged himself to be the **Assistant Vice President** of  
**CNX Gas Company LLC**, a Virginia limited liability company, and that he as such, being  
authorized to do so, executed the foregoing instrument on behalf of **CNX Gas Company LLC**.

In witness hereof, I hereunto set my hand and official seal.

(Notarial Seal)

\_\_\_\_\_  
NOTARY PUBLIC  
My commission expires \_\_\_\_\_

**MEMORANDUM OF LEASE  
(West Virginia)  
243015000**

THIS MEMORANDUM OF LEASE (this "Memorandum") is made and entered into as of the 2<sup>nd</sup> day of February, 2018, and effective as of the 13<sup>th</sup> day of February, 2018 (the "Effective Date"), by and between Mt. Tabor United Methodist Church by its Trustees; Roy L. Hall, Victoria Hall, John L. Miller, Karen Miller, Sonya Miller, Adam Miller, Barbara Wagner, Lillian Wagner, Beto Gorostieta, Bill Areheart, Lynda Areheart and Leonard Hall, with an address at 71 Country Road, Fairview, WV 26570 ([collectively,] "Lessor"), and CNX Gas Company LLC, a Virginia limited liability company, with an address at 1000 CONSOL Energy Drive, Canonsburg, Pennsylvania 15317-6506 ("Lessee") (each a "Party," and together the "Parties").

WHEREAS, Lessor and Lessee have entered into a certain Oil and Gas Lease further described below (the "Lease") whereby Lessor has leased to Lessee certain oil and gas estates, interests and appurtenant rights more particularly described below and in the Lease; and

WHEREAS, in lieu of recording the Lease, the Parties have executed, acknowledged and delivered this Memorandum for recordation pursuant to W.Va. Code § 40-1-8 et seq. Capitalized terms used but not defined herein shall refer to terms defined in the Lease.

NOW, THEREFORE, Lessor and Lessee, intending to be legally bound, hereby publish and give notice of the tenancy created and certain of the rights granted by and obligations under the Lease, as follows:

**1. NAME AND ADDRESS OF LESSOR:**

Mt Tabor United Methodist Church  
71 Country Road  
Fairview, WV 26570

**2. NAME AND ADDRESS OF LESSEE:**

CNX Gas Company LLC  
1000 CONSOL Energy Drive  
Canonsburg, PA 15317

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**3. DATE OF LEASE EXECUTION/EFFECTIVE DATE:**Date of execution of Lease: Feb, 2, 2018Effective Date of Lease: February, 13<sup>th</sup> 2018**4. DESCRIPTION OF SUBJECT PREMISES:**

All oil, gas, and their liquid and/or gaseous constituents, whether hydrocarbon or non-hydrocarbon and all other substances produced therewith (collectively, whether any of the foregoing, the "Leased Oil/Gas") from all subsurface strata, formations, voids, and zones underlying the Leased Premises located in Battelle District, Monongalia County, West Virginia, Property Tax Parcel Identification No.'s 31-01-0002-0022-0000 and 31-01-0002-0024-0000, said parcels being more particularly described by instrument dated June 18, 1841, and recorded at OS 18, Page 186, by instrument dated October 15, 1888 and recorded at Deed Book 42, Page 198, by instrument dated October 24, 1902, and recorded at Deed Book 89, Page 159, and by instrument dated October 29, 1902, and recorded at Deed Book 89, Page 160, containing approximately 5.00 acres, (collectively, the "Leased Premises"), together with a non-exclusive subsurface easement through all formations for the purpose of accessing, exploring, developing, and producing the Leased Oil/Gas. Lessor hereby grants and leases exclusively to Lessee all rights necessary, convenient, or incident to explore, drill, develop, produce, treat, transport and market Leased Oil/Gas and otherwise conduct Operations on and about the Leased Premises and any lands pooled or unitized with the Leased Premises using all available methods and techniques under current and future technology, including, without limitation, the following rights: to have full and free access over and through the Leased Premises; to conduct geological, geophysical, core drilling and other exploratory work; to drill, re-drill, lengthen, re-work, stimulate, fracture, plug, remove and/or abandon vertical or horizontal wells, and to inject under pressure water, air, brine and other fluids and substances (including, without limitation, non-domestic water from the Leased Premises, free of cost) into subsurface strata and/or withdraw the same therefrom; to erect and operate drill sites and drilling rigs and related facilities to treat, separate, compress, dehydrate, process, gather, and measure and shut-in Leased Oil/Gas, together with all other equipment, structures and facilities that Lessee deems desirable for use in its operations; to construct, use and operate roads, utility lines, canals, impoundments and pits; to install and operate pipelines, tanks, pumps, compressors, condensers and other equipment and facilities for use in transporting Leased Oil/Gas from the Leased Premises and from other lands, over and through the Leased Premises (all of the foregoing activities are collectively referred to herein as "Operations"); and to have and enjoy all rights and privileges reasonably necessary or appropriate to effectuate the purposes of this Lease.

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5. **TERM OF LEASE:**

A. **Primary Term.** This Lease shall remain in force for a term of five (5) years following the Effective Date (the "**Primary Term**").

B. **Secondary Term.** This Lease shall remain in full force and continue following the Primary Term as to the entirety of the Leased Premises for so long thereafter as any of the following circumstances exist (such period, the "**Secondary Term**"): (i) Lessee is conducting any Operations on the Leased Premises or any lands pooled or unitized therewith; (ii) any of the Leased Oil/Gas are being produced in commercial quantities from the Leased Premises or any lands pooled or unitized therewith; (iii) any well on the Leased Premises or on any lands pooled or unitized therewith is Shut-In; or (iv) this Lease is otherwise extended by Force Majeure, Equitable Tolling, or other terms hereof.

6. **RENEWAL OR EXTENSION RIGHTS: NONE**

7. **RIGHT OF PURCHASE, RIGHT OF FIRST REFUSAL AND/OR OPTIONS:**

In the event that Lessor receives from any third party any bona fide offer to grant an additional oil and/or gas lease covering all or part of the Leased Premises within the Term, Lessor shall provide Lessee with a written notice of such offer by certified mail, including the proposed lessee's name, bonus consideration and royalty consideration, and a true, correct and complete copy of the proposed lease. Lessee shall have ninety (90) days following receipt of such written notice to elect to exercise a right of first refusal, in Lessee's sole and absolute discretion, to enter into an oil and gas lease with Lessor on the same terms and conditions as set forth in the proposed lease. Should Lessee so elect, Lessee shall notify Lessor in writing within such ninety (90) day period and submit therewith a lease with Lessee containing the same terms and conditions and, if so desired by Lessee, a memorandum of such lease for recordation. Within ten (10) days after receipt of such signed lease and memorandum of lease (if any) back from Lessor, Lessor shall counter-sign and return such lease and memorandum of lease (if any) to Lessee together with the bonus payment required under such lease. No single exercise of the foregoing right of first refusal shall exhaust any rights granted hereunder to subsequent offers covering all or any part of the Leased Premises. Any additional lease granted to any third party by Lessor in violation of this provision shall be null and void.

8. **EXECUTION:**

This Memorandum may be executed in any number of counterparts, each having the same validity and all of which shall constitute but one and the same instrument.

**THIS MEMORANDUM IS NOT A COMPLETE SUMMARY OF THE LEASE. IN THE EVENT OF A CONFLICT BETWEEN THE TERMS OF THIS MEMORANDUM AND THOSE OF THE LEASE, THE TERMS OF THE LEASE SHALL CONTROL.**

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IN WITNESS WHEREOF, Lessor and Lessee, intending to be legally bound, have executed this Memorandum effective as of the Effective Date (whether executed by either Party on, before or after the Effective Date).

LESSOR:  
Mt Tabor United Methodist Church

LESSEE:  
CNX Gas Company LLC

By: \_\_\_\_\_  
Name: Timothy Surmick  
Title: Assistant Vice President

\_\_\_\_\_  
By: Roy L. Hall, Trustee

\_\_\_\_\_  
By: Victoria Hall, Trustee

*John L. Miller*  
\_\_\_\_\_  
By: John L. Miller, Trustee

*Karen Miller*  
\_\_\_\_\_  
By: Karen Miller, Trustee

*Sonya Miller*  
\_\_\_\_\_  
By: Sonya Miller, Trustee

*Adam Miller*  
\_\_\_\_\_  
By: Adam Miller, Trustee

*Barbara Wagner*  
\_\_\_\_\_  
By: Barbara Wagner, Trustee

*Lillian Wagner (T)*  
\_\_\_\_\_  
By: Lillian Wagner, Trustee

*Beto Gorostieta*  
\_\_\_\_\_  
By: Beto Gorostieta, Trustee

*Bill Areheart*  
\_\_\_\_\_  
By: Bill Areheart, Trustee

*Lynda Areheart*  
\_\_\_\_\_  
By: Lynda Areheart, Trustee

*Leonard Hall*  
\_\_\_\_\_  
Leonard Hall, Trustee

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WV Department of  
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IN WITNESS WHEREOF, Lessor and Lessee, intending to be legally bound, have executed this Memorandum effective as of the Effective Date (whether executed by either Party on, before or after the Effective Date).

LESSOR:  
Mt Tabor United Methodist Church

LESSEE:  
CNX Gas Company LLC

By: \_\_\_\_\_  
Name: Timothy Surmick  
Title: Assistant Vice President

Roy L. Hall  
By: Roy L. Hall, Trustee

Victoria Hall  
By: Victoria Hall, Trustee

By: John L. Miller, Trustee

By: Karen Miller, Trustee

By: Sonya Miller, Trustee

By: Adam Miller, Trustee

By: Barbara Wagner, Trustee

By: Lillian Wagner, Trustee

By: Beto Gorostieta, Trustee

By: Bill Areheart, Trustee

By: Lynda Areheart, Trustee

Leonard Hall, Trustee

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ACKNOWLEDGMENTS

STATE/Commonwealth of FLORIDA  
COUNTY OF HIGHLANDS

The foregoing instrument was acknowledged before me on the 10 day of FEB, 2018 by **Mt. Tabor Methodist Church by its Trustees; Roy L. Hall and Victoria Hall**, whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.

(Notarial Seal)



MICHAEL ERIC CAVE  
MY COMMISSION # GG 043182  
EXPIRES: November 5, 2020  
Bonded Through Budget Notary Services

[Signature]

NOTARY PUBLIC

My commission expires 5 NOV 2020

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me on the \_\_\_\_ day of \_\_\_\_\_, 2018 by **Mt. Tabor Methodist Church by its Trustees; John L. Miller and Karen Miller** whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.

(Notarial Seal)

\_\_\_\_\_  
NOTARY PUBLIC

My commission expires \_\_\_\_\_

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me on the \_\_\_\_ day of \_\_\_\_\_, 2018 by **Mt. Tabor Methodist Church by its Trustees; Sonya Miller and Adam Miller**, whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.

(Notarial Seal)

\_\_\_\_\_  
NOTARY PUBLIC

My commission expires \_\_\_\_\_

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ACKNOWLEDGMENTS

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me on the \_\_\_\_ day of \_\_\_\_\_, 2018 by Mt. Tabor Methodist Church by its Trustees; Roy L. Hall and Victoria Hall, whose name(s) is/are signed hereto.

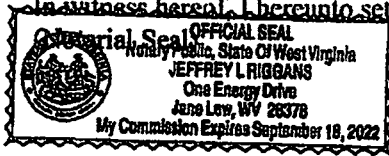
In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)

\_\_\_\_\_  
NOTARY PUBLIC  
My commission expires \_\_\_\_\_

STATE/Commonwealth of WVA  
COUNTY OF MONONGALIA

The foregoing instrument was acknowledged before me on the 2<sup>nd</sup> day of Feb, 2018 by Mt. Tabor Methodist Church by its Trustees; John L. Miller and Karen Miller whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.

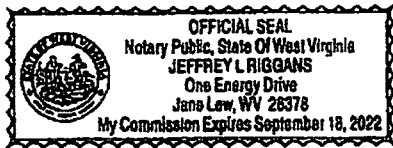


\_\_\_\_\_  
NOTARY PUBLIC  
My commission expires 9-18-22

STATE/Commonwealth of WVA  
COUNTY OF MONONGALIA

The foregoing instrument was acknowledged before me on the 2<sup>nd</sup> day of Feb, 2018 by Mt. Tabor Methodist Church by its Trustees; Sonya Miller and Adam Miller, whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)

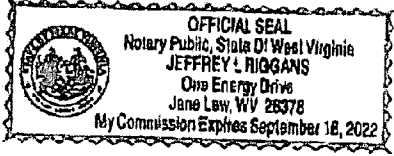


\_\_\_\_\_  
NOTARY PUBLIC  
My commission expires 9-18-22

STATE/Commonwealth of WVA  
COUNTY OF MONONGALIA

The foregoing instrument was acknowledged before me on the 2nd day of Feb, 2018 by Mt. Tabor Methodist Church by its Trustees; Barbara Wagner and Lillian Wagner, whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)

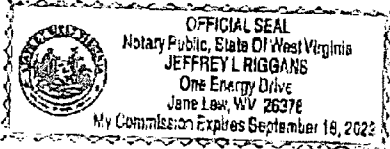


[Signature]  
NOTARY PUBLIC  
My commission expires 9-18-22

STATE/Commonwealth of WVA  
COUNTY OF MONONGALIA

The foregoing instrument was acknowledged before me on the 2nd day of Feb, 2018 by Mt. Tabor Methodist Church by its Trustees; Beto Gorostieta, whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)

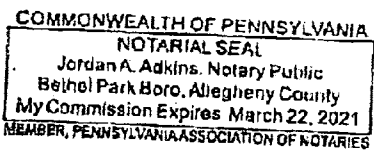


[Signature]  
NOTARY PUBLIC  
My commission expires 9-18-22

STATE/Commonwealth of Pennsylvania  
COUNTY OF Allegheny

The foregoing instrument was acknowledged before me on the 6th day of February, 2018 by Mt. Tabor Methodist Church by its Trustees; Bill Areheart and Lynda Areheart whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)



[Signature]  
NOTARY PUBLIC  
My commission expires 3-22-2021

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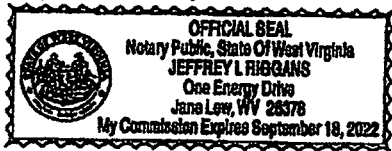
Oil and Gas Administration  
Division of Oil and Gas



STATE/Commonwealth of WV  
COUNTY OF Monongalia

The foregoing instrument was acknowledged before me on the 2nd day of Feb, 2018 by Mt. Tabor Methodist Church by its Trustees; Leonard Hall, whose name(s) is/are signed hereto.

In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)



[Signature]  
NOTARY PUBLIC  
My commission expires 9-18-22

COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF WASHINGTON

The foregoing instrument was acknowledged before me on the \_\_\_ day of \_\_\_\_\_, 2018 by Timothy Surmick, who acknowledged himself to be the Assistant Vice President of CNX Gas Company LLC, a Virginia limited liability company, and that he as such, being authorized to do so, executed the foregoing instrument on behalf of CNX Gas Company LLC.

In witness hereof, I hereunto set my hand and official seal.  
(Notarial Seal)

\_\_\_\_\_  
NOTARY PUBLIC  
My commission expires \_\_\_\_\_

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Environmental Protection



Erika Whetstone  
Manager – Gas Permitting  
CONSOL Energy Inc.  
1000 CONSOL Energy Drive  
Canonsburg, PA 15317

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

**RE: Road Letter – WDTN 5 Well Pad**

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.

Should you have any questions or need additional information, please do not hesitate to contact me at [erikawhetstone@consolenergy.com](mailto:erikawhetstone@consolenergy.com) or 724-485-4035.

Sincerely,

A handwritten signature in black ink, appearing to read 'Erika Whetstone'.

Erika Whetstone  
CNX Gas Company LLC

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

Date of Notice Certification: 4-4-18

API No. 47- \_\_\_\_\_  
Operator's Well No. WDTN5BHSU  
Well Pad Name: WDTN5

**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>1732990.785</u>
County: <u>Monongalia</u>	Northing: <u>440568.098</u>
District: <u>Battelle</u>	Public Road Access: <u>CR6 Wise Run</u>
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Wise</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.

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><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</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p style="text-align: right;"><small>RECEIVED Office of Oil and Gas</small></p>
--	---

APR 6 2018

**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.

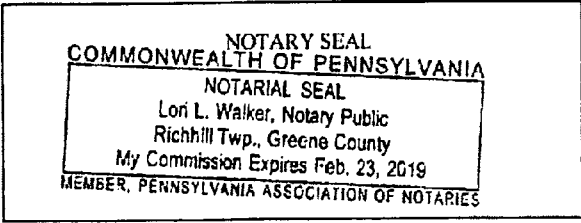
Attached to WDTN5B WW-6AC  
Commonwealth of Pennsylvania  
County of Washington

**Certification of Notice is hereby given:**

THEREFORE, I Raymond Hoon *[Signature]*, 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  
By: Raymond Hoon  
Its: Permitting Supervisor  
Telephone: 724-485-3540

Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317  
Facsimile: \_\_\_\_\_  
Email: RaymondHoon@CNX.com



Subscribed and sworn before me this 4th day of April 2018.  
Lori L. Walker Notary Public  
My Commission Expires February 23, 2019

**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](mailto:depprivacyofficer@wv.gov).

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APR 6 2018  
[Signature]



**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: 4-4-18 Date Permit Application Filed: 4-5-18

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: See attached  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: See attached  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: N/A  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: See attached  
Address: \_\_\_\_\_

COAL OPERATOR

Name: N/A  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: N/A  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: N/A  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. WDTN5BHSU  
Well Pad Name: WDTN5

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**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(b) 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 57<sup>th</sup> 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)

Attached to WDTN5B WW6-A

API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. WDTN5BHSU  
Well Pad Name: WDTN5

**Notice is hereby given by:**

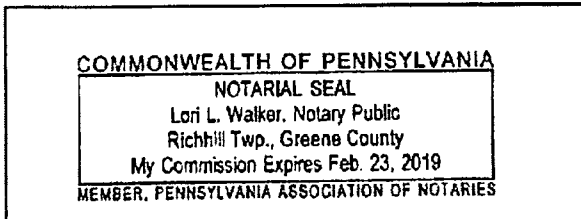
Well Operator: CNX Gas Company LLC  
Telephone: 724-485-3540  
Email: RaymondHoon@CNX.com

Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317  
Facsimile: \_\_\_\_\_

**Oil and Gas Privacy Notice:**

Commonwealth of Pennsylvania County of Washington

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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 4th day of April 2018.  
Lori L. Walker Notary Public  
My Commission Expires February 23, 2019

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Department of  
Environmental Protection

**WW6A Notice of Application - Attachment**

WDTN5

**Surface Owner(s) (Well Site & Road and/or Other Disturbance):**

John Matthew Wise and Dina Wise  
2255 East 6500 South, Price, UT 84501

Opal Wise  
2002 West 600 North Hilltop Road, Price, UT 84501

Richard Nunley  
261 Festival Drive, Oceanside, CA 92057

Patricia Mumaw  
3344 Northridge Drive, Wooster, OH 44691

Donald Nunley  
36 Autumn Drive, Core, WV 26541

Mary Nunley Stepelton  
7739 South Hampton Terrace, Unit G204, Tamarac, FL 33321

Thomas McCauley  
220 Kennedy Street, Apt 5, Louisville, OH 44641

Richard McCauley  
2589 Timothy Ave., Louisville, OH 44641

Judy Eckman  
630 Coniston Drive, Leland, NC 28451-9754

Clifford J. Wise  
2394 County Road 137, Obrien, FL 32071

Regina W. Myers  
1200 Carroll Heights Blvd., Hagerstown, MD 21742

Eleanor Wise  
126 Fairview Ave., Waynesburg, PA 15370

Victor E. Wise  
PO Box 7437, Charleston, WV 25356

Frederick C. Wise  
1 West Hills Drive, Fairmont, WV 26554

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Walter C. Ord  
P.O. Box 802, McDowell, KY 41647

Evalee A. Everly  
1325 Citrus Gardens Dr., Apt A, Orlando, FL 32807

Dexter Murle Stewart  
1283 Crossroads Road, Fairview, WV 26570

Zelma Ruth Brummage  
3036 Main St., Farmington, WV 26571

James Freeman Stewart  
1206 Marion Ave. Fairmont, WV 26554

Justin P. Stewart  
132 Radiant Drive, Martinsburg, WV 25404

Annette Stewart  
41 Mimoso Dr., Martinsburg, WV 25404

Dawn Hughes  
1134 Brooke Rd., Stafford, VA 22405

Bryan Kevin Goff  
9325 Beaverdam Rd., Nanjemoy, MD 20662

Brandon Sweeney  
18501 Clagget Landing, Upper Marlboro, MD 20774

Brianna Skyler Sweeney  
18502 Clagget Landing, Upper Marlboro, MD 20774

Wally Currence  
16200 Bealle Hill Road, Waldorf, MD 20601

Maureen Currence  
203 Silver Maple Ct., Holly Ridge, NC 28445

Michelle Currence  
1 Carroll Drive, Stafford, VA 22554

Robert Stewart  
Lot 1, Route 21 MHP, Carmichaels, PA 15320

Phyllis Petrosky  
110 Chess St., Apt 401, New Eagle, PA 15067



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Jesse D. Jones  
308 1/2 Crest Ave., Charleroi, PA 15022 /

Harold M. Jones  
317 Crest Ave., Charleroi, PA 15022 /

CNX Gas Company LLC  
1000 Consol Energy Drive, Canonsburg, PA 15317 /

Jane Irons  
P.O. Box 681, Tellico Plains, TN 37385 /

Melissa Bookout  
311 West Walnut St., Madisonville, TN 37354 /

Barbara J. Wagner  
573 Wise Run Road, Wana, WV 26590 /

**Coal Owner:**

CNX RCPLC LC  
1000 CONSOL Energy Drive, Canonsburg, PA 15317 /

CCC RCPC LLC  
1001 CONSOL Energy Drive, Canonsburg, PA 15317 /

John Matthew Wise and Dina Wise /  
2255 East 6500 South, Price, UT 84501

Opal Wise /  
2002 West 600 North Hilltop Road, Price, UT 84501

Richard W. Wise /  
7817 Mason Dixon Highway, Wana, WV 26590

Kathy A. Sine /  
343 Statler Run Road, Fairview, WV

John David Wise /  
3 Cross Roads Road, Wana, WV

Richard Nunley /  
261 Festival Drive, Oceanside, CA 92057

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Patricia Mumaw  
3344 Northridge Drive, Wooster, OH 44691

Donald Nunley  
36 Autumn Drive, Core, WV 26541

Mary Nunley Stepelton  
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Judy Eckman  
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Linda Stapp  
124 Reservoir Rd., St. Clairsville, OH 43950

Clifford J. Wise  
2394 County Road 137, Obrien, FL 32071

Regina W. Myers  
1200 Carroll Heights Blvd., Hagerstown, MD 21742

Eleanor Wise  
126 Fairview Ave., Waynesburg, PA 15370

Victor E. Wise  
PO Box 7437, Charleston, WV 25356

Frederick C. Wise  
1 West Hills Drive, Fairmont, WV 26554

Walter C. Ord  
P.O. Box 802, McDowell, KY 41647

Evallee A. Everly  
1325 Citrus Gardens Dr., Apt A, Orlando, FL 32807

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Dexter Murle Stewart  
1283 Corsroads Road, Fairview, WV 26570

Zelma Ruth Brummage  
3036 Main St., Farmington, WV 26571

James Freeman Stewart  
1206 Marion Ave. Fairmont, WV 26554

Justin P. Stewart  
132 Radiant Drive, Martinsburg, WV 25404

Annette Stewart  
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Maureen Currence  
203 Silver Maple Ct., Holly Ridge, NC 28445

Michelle Currence  
1 Carroll Drive, Stafford, VA 22554

Robert Stewart  
Lot 1, Route 21 MHP, Carmichaels, PA 15320

Phyllis Petrosky  
110 Chess St., Apt 401, New Eagle, PA 15067

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4706101806

Jesse D. Jones  
308 1/2 Crest Ave., Charleroi, PA 15022

Harold M. Jones  
317 Crest Ave., Charleroi, PA 15022

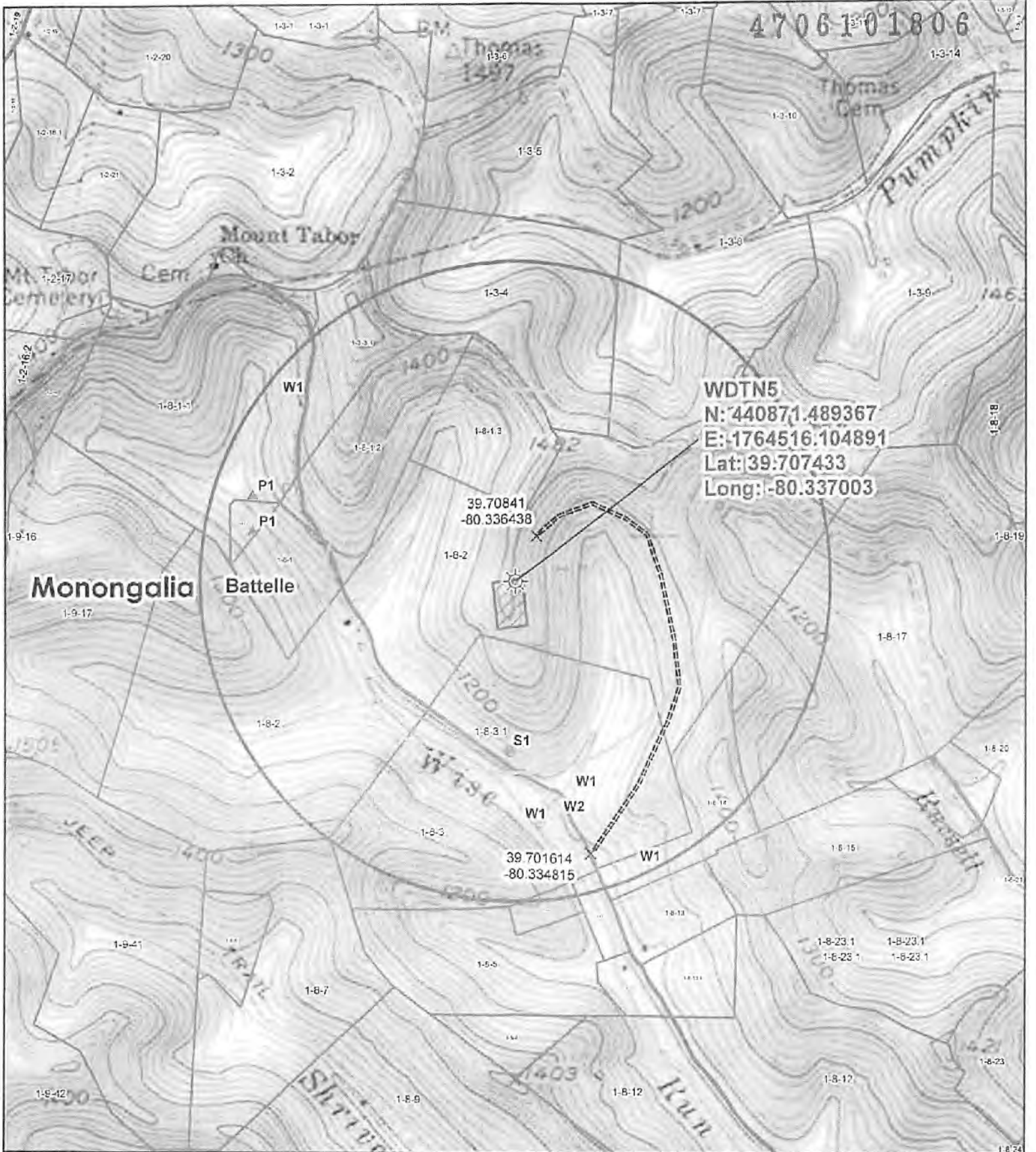
CNX Gas Company LLC  
1000 Consol Energy Drive, Canonsburg, PA 15317

Jane Irons  
P.O. Box 681, Tellico Plains, TN 37385

Melissa Bookout  
311 West Walnut St., Madisonville, TN 37354

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4706101806



**Legend**

- Wellbore
- Wells
- Spring
- Ponds
- Access Points
- Access Road
- 2,500 Foot Buffer
- 1,500 Foot Buffer
- Well Pad
- Surface Parcel

0 1,000 2,000 Feet  
1 inch = 1,000 feet

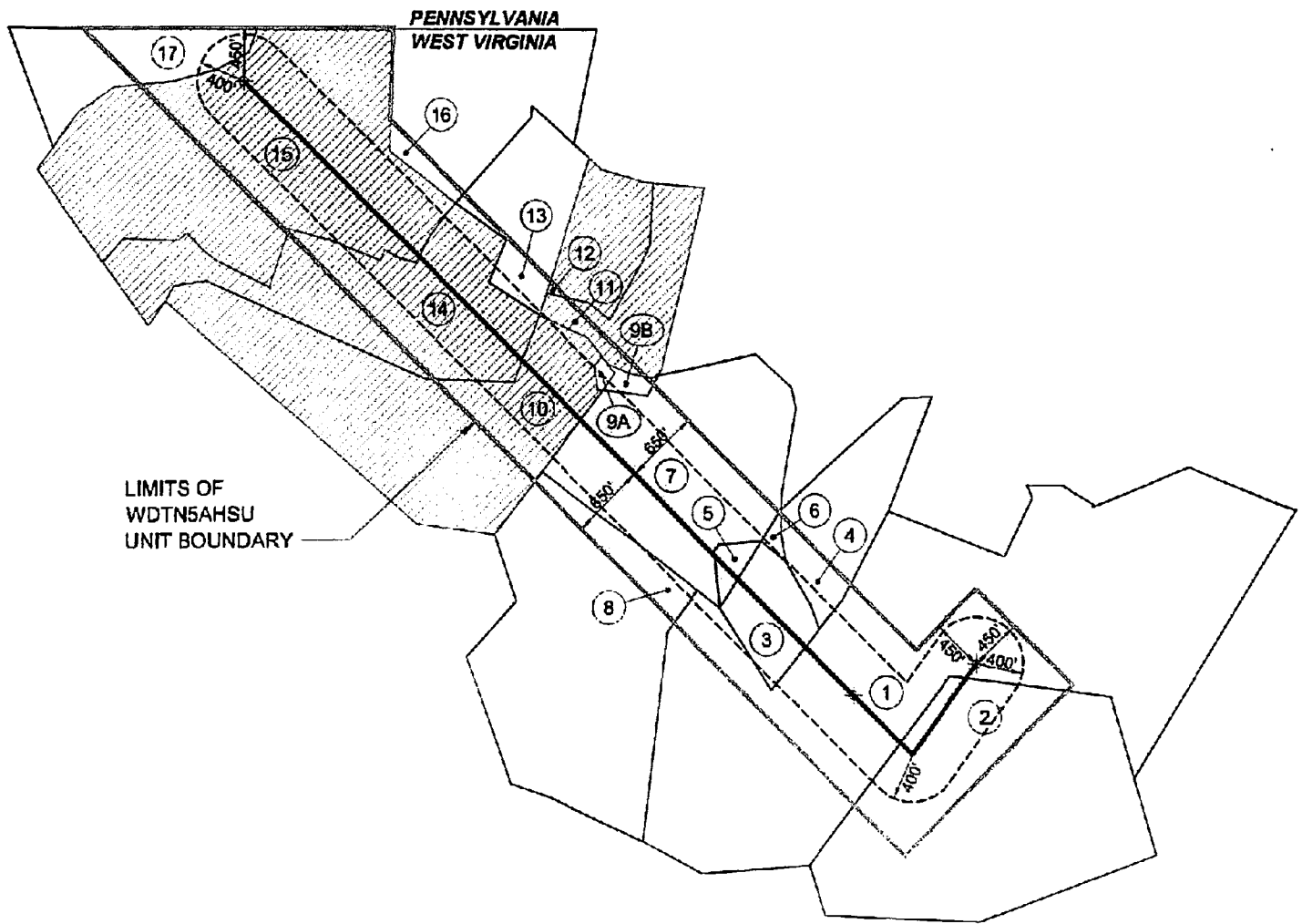
Original Date: 11/13/2017	Prepared By: GIS
Revision Date: 11/13/2017	Approved By: GIS

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**CONSOL ENERGY**  
CNX Center, Canonsburg, PA

APR 6 2018  
Topographic Well Map  
WDTN5

Path: c:\projects\2018\wells\wells\_uni\_supting\m\_permitting\gd\wells\water\_well\_map\wdtn5\_topo\_water\_well\_map.mxd - 11/20/2017



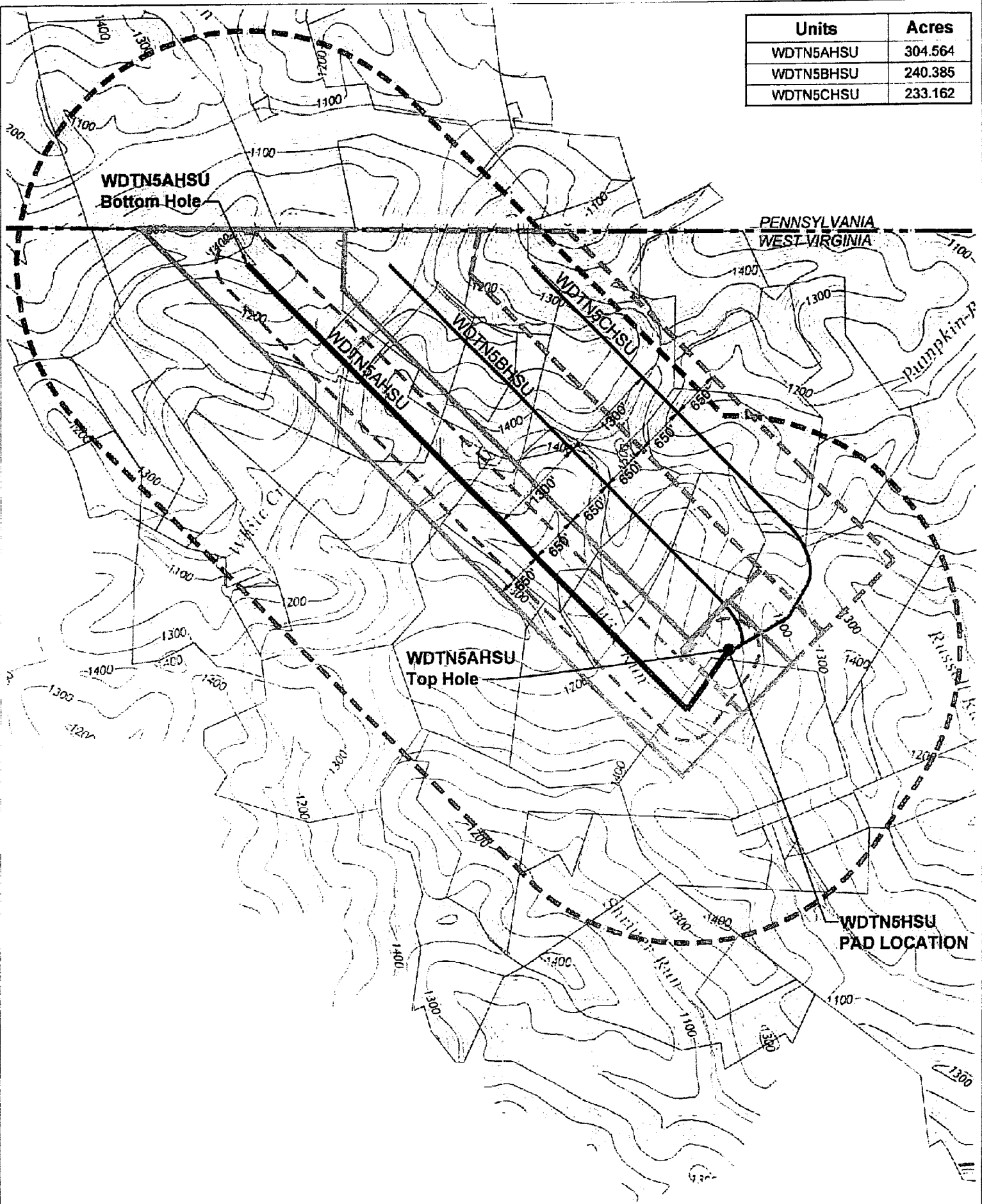
**WDTN5AHSU UNIT = 304.564 ACRES TOTAL**

**BATTELLE DISTRICT**

	TAX MAP & PARCEL	UNIT ACRES
1	1-8, P/O PARCEL 2	54.335 Ac.
2	1-8, P/O PARCELS 3 & 3.1	27.795 Ac.
3	1-8, PARCEL 1	13.128 Ac.
4	1-8, P/O PARCEL 1.2	5.616 Ac.
5	1-8, PARCEL 1.4	2.508 Ac.
6	1-8, P/O PARCEL 1.5	0.870 Ac.
7	1-8, P/O PARCEL 1.1	42.116 Ac.
8	1-9, P/O PARCEL 17	8.491 Ac.
9A	1-2, P/O PARCEL 22	0.677 Ac.
9B	1-2, P/O PARCEL 22	1.442 Ac.



Units	Acres
WDTN5AHSU	304.564
WDTN5BHSU	240.385
WDTN5CHSU	233.162



**WDTN5HSU Well Coordinate List**

**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:** 4-4-18 **Date Permit Application Filed:** 4-5-18

**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: See attached  
Address: \_\_\_\_\_  
\_\_\_\_\_

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:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>1732990.785</u>
County:	<u>Monongalia</u>		Northing:	<u>440568.098</u>
District:	<u>Battelle</u>	Public Road Access:	<u>CR6 Wise Run</u>	
Quadrangle:	<u>Wadestown</u>	Generally used farm name:	<u>Wise</u>	
Watershed:	<u>Dunkard Creek</u>			

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**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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: 724-485-3540  
Email: RaymondHoon@CNX.com  
Facsimile: \_\_\_\_\_

Authorized Representative: Raymond Hoon  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317  
Telephone: 724-485-3540  
Email: RaymondHoon@CNX.com  
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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

**Surface Owner(s) (Well Site & Road and/or Other Disturbance):**

John Matthew Wise and Dina Wise ✓  
2255 East 6500 South, Price, UT 84501

Opal Wise ✓  
2002 West 600 North Hilltop Road, Price, UT 84501

Richard Nunley ✓  
261 Festival Drive, Oceanside, CA 92057

Patricia Mumaw ✓  
3344 Northridge Drive, Wooster, OH 44691

Donald Nunley ✓  
36 Autumn Drive, Core, WV 26541

Mary Nunley Stepelton ✓  
7739 South Hampton Terrace, Unit G204, Tamarac, FL 33321

Thomas McCauley ✓  
220 Kennedy Street, Apt 5, Louisville, OH 44641

Richard McCauley ✓  
2589 Timothy Ave., Louisville, OH 44641

Judy Eckman ✓  
630 Coniston Drive, Leland, NC 28451-9754

Clifford J. Wise ✓  
2394 County Road 137, Obrien, FL 32071

Regina W. Myers ✓  
1200 Carroll Heights Blvd., Hagerstown, MD 21742

Eleanor Wise ✓  
126 Fairview Ave., Waynesburg, PA 15370

Victor E. Wise ✓  
PO Box 7437, Charleston, WV 25356

Frederick C. Wise ✓  
1 West Hills Drive, Fairmont, WV 26554

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Walter C. Ord  
P.O. Box 802, McDowell, KY 41647

Evalee A. Everly  
1325 Citrus Gardens Dr., Apt A, Orlando, FL 32807

Dexter Murle Stewart  
1283 Crossroads Road, Fairview, WV 26570

Zelma Ruth Brummage  
3036 Main St., Farmington, WV 26571

James Freeman Stewart  
1206 Marion Ave. Fairmont, WV 26554

Justin P. Stewart  
132 Radiant Drive, Martinsburg, WV 25404

Annette Stewart  
41 Mimosa Dr., Martinsburg, WV 25404

Dawn Hughes  
1134 Brooke Rd., Stafford, VA 22405

Bryan Kevin Goff  
9325 Beaverdam Rd., Nanjemoy, MD 20662

Brandon Sweeney  
18501 Clagget Landing, Upper Marlboro, MD 20774

Brianna Skyler Sweeney  
18502 Clagget Landing, Upper Marlboro, MD 20774

Wally Currence  
16200 Bealle Hill Road, Waldorf, MD 20601

Maureen Currence  
203 Silver Maple Ct., Holly Ridge, NC 28445

Michelle Currence  
1 Carroll Drive, Stafford, VA 22554

Robert Stewart  
Lot 1, Route 21 MHP, Carmichaels, PA 15320

Phyllis Petrosky  
110 Chess St., Apt 401, New Eagle, PA 15067

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Jesse D. Jones  
308 1/2 Crest Ave., Charleroi, PA 15022 ✓

Harold M. Jones  
317 Crest Ave., Charleroi, PA 15022 ✓

CNX Gas Company LLC  
1000 Consol Energy Drive, Canonsburg, PA 15317 ✓

Jane Irons  
P.O. Box 681, Tellico Plains, TN 37385 ✓

Melissa Bookout  
311 West Walnut St., Madisonville, TN 37354 ✓

Barbara J. Wagner  
573 Wise Run Road, Wana, WV 26590 ✓

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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: 4-4-18 Date Permit Application Filed: 4-5-18

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED  HAND 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: See attached Name: \_\_\_\_\_  
Address: \_\_\_\_\_ 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: West Virginia UTM NAD 83 Easting: 1732990.785  
County: Monongalia Northing: 440566.098  
District: Bettelle Public Road Access: CR6 Wise Run  
Quadrangle: Wadestown Generally used farm name: Wise  
Watershed: Dunkard Creek

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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: CNX Gas Company LLC  
Telephone: 724-485-3540  
Email: RaymondHoon@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](mailto:depprivacyofficer@wv.gov).

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WV Department of Environmental Protection

**WW6A5 Notice of Planned Operation - Attachment****WDTN5****Surface Owner(s) (Well Site & Road and/or Other Disturbance):**

John Matthew Wise and Dina Wise  
2255 East 6500 South, Price, UT 84501 ✓

Opal Wise  
2002 West 600 North Hilltop Road, Price, UT 84501 ✓

Richard Nunley  
261 Festival Drive, Oceanside, CA 92057 ✓

Patricia Mumaw  
3344 Northridge Drive, Wooster, OH 44691 ✓

Donald Nunley  
36 Autumn Drive, Core, WV 26541 ✓

Mary Nunley Stepelton  
7739 South Hampton Terrace, Unit G204, Tamarac, FL 33321 ✓

Thomas McCauley  
220 Kennedy Street, Apt 5, Louisville, OH 44641 ✓

Richard McCauley  
2589 Timothy Ave., Louisville, OH 44641 ✓

Judy Eckman  
630 Coniston Drive, Leland, NC 28451-9754 ✓

Clifford J. Wise  
2394 County Road 137, Obrien, FL 32071 ✓

Regina W. Myers  
1200 Carroll Heights Blvd., Hagerstown, MD 21742 ✓

Eleanor Wise  
126 Fairview Ave., Waynesburg, PA 15370 ✓

Victor E. Wise  
PO Box 7437, Charleston, WV 25356 ✓

Frederick C. Wise  
1 West Hills Drive, Fairmont, WV 26554 ✓

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Walter C. Ord  
P.O. Box 802, McDowell, KY 41647

Evalee A. Everly  
1325 Citrus Gardens Dr., Apt A, Orlando, FL 32807

Dexter Murle Stewart  
1283 Crossroads Road, Fairview, WV 26570

Zelma Ruth Brummage  
3036 Main St., Farmington, WV 26571

James Freeman Stewart  
1206 Marion Ave. Fairmont, WV 26554

Justin P. Stewart  
132 Radiant Drive, Martinsburg, WV 25404

Annette Stewart  
41 Mimosa Dr., Martinsburg, WV 25404

Dawn Hughes  
1134 Brooke Rd., Stafford, VA 22405

Bryan Kevin Goff  
9325 Beaverdam Rd., Nanjemoy, MD 20662

Brandon Sweeney  
18501 Clagget Landing, Upper Marlboro, MD 20774

Brianna Skyler Sweeney  
18502 Clagget Landing, Upper Marlboro, MD 20774

Wally Currence  
16200 Bealle Hill Road, Waldorf, MD 20601

Maureen Currence  
203 Silver Maple Ct., Holly Ridge, NC 28445

Michelle Currence  
1 Carroll Drive, Stafford, VA 22554

Robert Stewart  
Lot 1, Route 21 MHP, Carmichaels, PA 15320

Phyllis Petrosky  
110 Chess St., Apt 401, New Eagle, PA 15067

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Jesse D. Jones  
308 1/2 Crest Ave., Charleroi, PA 15022 /

Harold M. Jones  
317 Crest Ave., Charleroi, PA 15022 /

CNX Gas Company LLC  
1000 Consol Energy Drive, Canonsburg, PA 15317 /

Jane Irons  
P.O. Box 681, Tellico Plains, TN 37385 /

Melissa Bookout  
311 West Walnut St., Madisonville, TN 37354 /

Barbara J. Wagner  
573 Wise Run Road, Wana, WV 26590 /

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Jim Justice  
Governor

Thomas J. Smith, P. E.  
Secretary of Transportation/  
Commissioner of Highways

December 6, 2017

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

Subject: DOH Permit for the WDTN5 Pad, Monongalia County  
WDTN5BHSU Well Site

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #04-2017-0929 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 6.

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 January 3, 2012.

Very Truly Yours,

A handwritten signature in cursive script that reads "Gary K. Clayton".

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

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

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## 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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