



west virginia department of environmental protection

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

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

Monday, April 19, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for WDTN5WHSM
47-061-01871-00-00

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: WDTN5WHSM
Farm Name: JOHN M. WISE, ET UX., ET AL
U.S. WELL NUMBER: 47-061-01871-00-00
Horizontal 6A New Drill
Date Issued: 4/19/2021

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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

PERMIT CONDITIONS

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.

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 Batelle WADESTOWN
Operator ID County District Quadrangle

2) Operator's Well Number: WDTN5WHSM Well Pad Name: WDTN5

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

4) Elevation, current ground: 1412' Elevation, proposed post-construction: 1390'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target formation is Marcellus Shale @ 7970'-8040'TVD, 70' thick, expected formation pressure ~4600psi

8) Proposed Total Vertical Depth: 8035' TVD at TD (dependent upon formation dip)

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

10) Proposed Total Measured Depth: 15,085' MD at TD

11) Proposed Horizontal Leg Length: 6,404'

12) Approximate Fresh Water Strata Depths: Shallowest at ~125' and deepest at ~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: 2115', 2565'

15) Approximate Coal Seam Depths: 709'-712'; 970'-976'; 1058'-1062'; 1063'-1070'

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

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

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

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CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	129	100	96 / CTS
Fresh Water	13.375	New	J-55	54.5	1,409	1,380	959 / CTS
Coal	13.375	New	J-55	54.5	1,409	1,380	959 / CTS
Intermediate	9.625	New	J-55	36	3,084	3,055	1,025 / CTS
Production	5.5	New	P-110	20	15,085	15,056	3,120 / TOC @ 2,588
Tubing	2.375	New	J-55	4.7	Above assumes RF = 29'	TBD	N/A
Liners	N/A						

*Buyer O'Hara
2-8-21*

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	30	0.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	0.380	2,730	<500	Class A	1.19
Coal	13.375	17.5	0.380	2,730	<500	Class A	1.19
Intermediate	9.625	12.25	0.352	3,520	<2,815	Class A	1.19
Production	5.5	8.75 x 8.5	0.361	14,340	~10,000 during frac	Class A or H	1.10
Tubing	2.375	N/A	0.190	7,700	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:

Utilize conductor rig to set 20" conductor into solid rock and cement back to surface. MIRU drilling rig. Air drill 17-1/2" hole. Run and cement 13-3/8" fresh water/coal casing. Note that the FW/coal casing will be set just above elevation - the casing will NOT be set below ground level (setting depth to isolate sloughing formations and red beds below the Pittsburgh coal seam). Air drill 12-1/4" hole. Run and cement 9-5/8" intermediate casing. Air drill 8-3/4" production hole to curve KOP (this section is typically directionally drilled with a slant/tangent profile for anti-collision and for lateral spacing). Displace hole with 12.0-12.5 ppg SOBM. Drill 8-1/2" curve from KOP to landing point. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in Marcellus target window). Perform clean-up cycle to condition well. Run and cement 5-1/2" production casing. Suspend well and skid to next well or RDMO drilling rig.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): No additional disturbance - 46.9 acres for existing pad

22) Area to be disturbed for well pad only, less access road (acres): No additional disturbance - 5.4 acres for existing pad

23) Describe centralizer placement for each casing string:

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

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

Fresh water/coal string: Class A cement with 1%-3% CaCl₂ and 1/4 pps cello-flake/LCM. Intermediate string: Class A or H cement with 0%-2% CaCl₂ and 1/4 pps cello-flake/LCM. Production string: Class A or 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:

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

*Note: Attach additional sheets as needed.

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WDTN5 Cement Additives

Fresh water string: Class A cement with 1%-3% CaCl₂ and 1/4 pps cello-flake/LCM.
Intermediate string: Class A cement with 0%-2% CaCl₂ and 1/4 pps cello-flake/LCM.
Production string: Class A or Class H 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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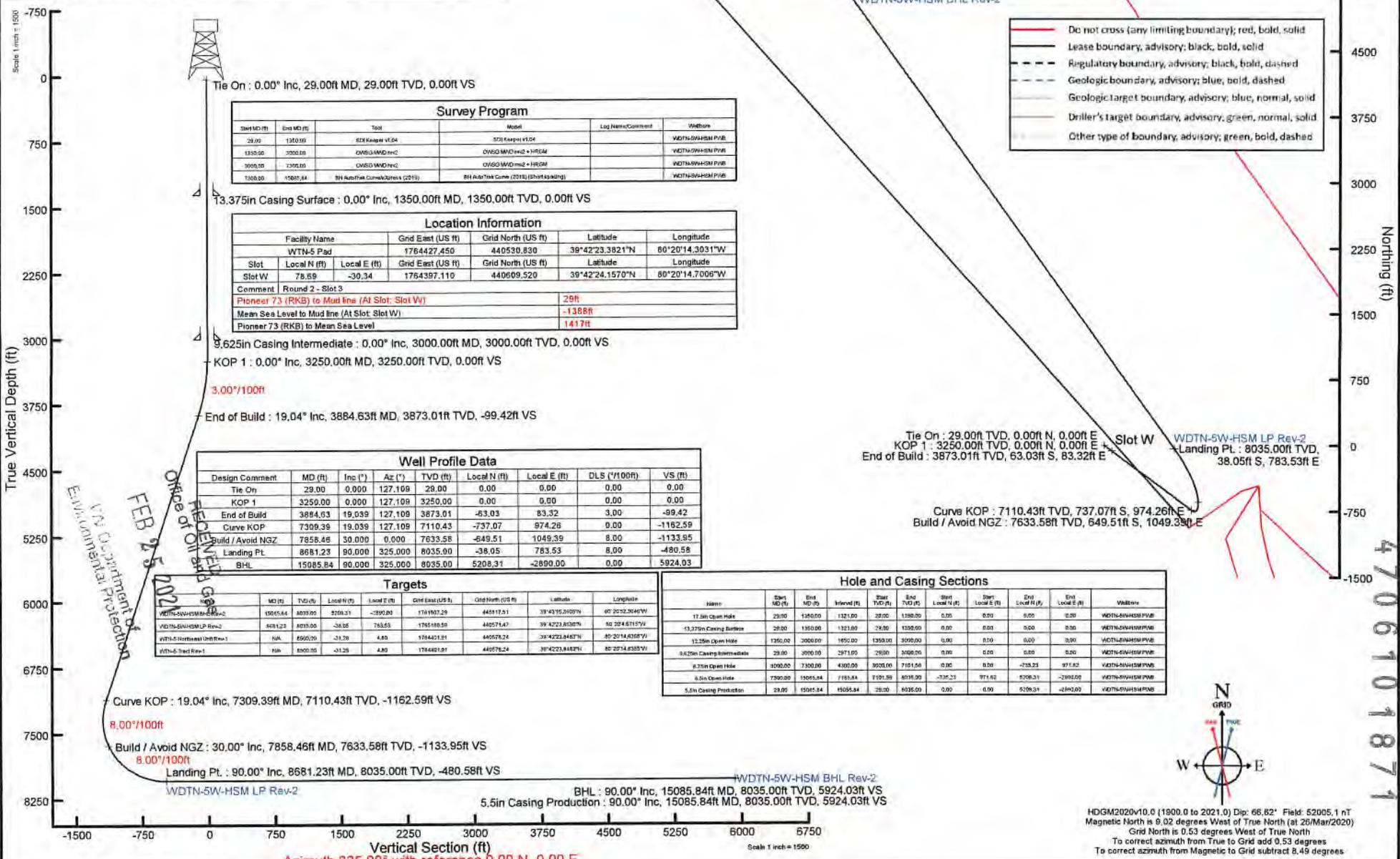
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CNX GAS COMPANY, LLC

Location: Monongalia County, WV
 Field: Monongalia
 Facility: WTN-5 Pad

Slot: Slot W
 Well: WDTN-5W-HSM
 Wellbore: WDTN-5W-HSM PWB

Plot reference wellbore #: WDTN-5W-HSM PWB Ex-01	Grid System: NAD27 / Lambert West Virginia SP, Northern Zone (N27), US Feet
Tie vertical depths are referenced to Pioneer 73 (RKB)	North Reference: Grid north
Reference wellbore measured depths are referenced to Pioneer 73 (RKB)	Scale: True distance
Pioneer 73 (RKB) to Mean Sea Level: 1417 feet	Coordinates are in feet referenced to EGS
Mean Sea Level to Mud line (At Slot: Slot W) = -1358 feet	Distances are in feet
Official wellbore MDs are referenced to each path's default MD datum	Created by: adarsyn on 2025-05-26, Database: WA_MPL_EASTERN_US_FWB



Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
29.00	1350.00	SIR Keypac v1.04	SIR Keypac v1.04		WDTN-5W-HSM PWB
1350.00	3000.00	OWSG MWD revC	OWSG MWD revC + HSDM		WDTN-5W-HSM PWB
3000.00	15085.84	OWSG MWD revC	OWSG MWD revC + HSDM		WDTN-5W-HSM PWB
15085.84	15085.84	BH AVOID NGZ (2019)	BH AVOID NGZ (2019) (2019) (2019)		WDTN-5W-HSM PWB

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
WTN-5 Pad	1784427.450	440530.830	39°42'23.3821"N	80°20'14.3031"W
Slot W	78.59	-30.34	1784397.110	440609.520
			39°42'24.1570"N	80°20'14.7006"W

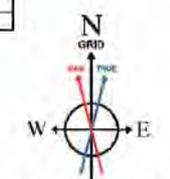
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	29.00	0.000	127.109	29.00	0.00	0.00	0.00	0.00
KOP 1	3250.00	0.000	127.109	3250.00	0.00	0.00	0.00	0.00
End of Build	3884.63	19.039	127.108	3873.01	-63.03	83.32	3.00	-89.42
Curve KOP	7309.39	19.039	127.109	7110.43	-737.07	974.26	0.00	-1162.59
Build / Avoid NGZ	7858.46	30.000	0.000	7633.58	-649.51	1049.39	8.00	-1133.95
Landing Pt.	8681.23	90.000	325.000	8035.00	-38.05	783.53	8.00	-480.58
BHL	15085.84	90.000	325.000	8035.00	-2890.00	0.00	0.00	5924.03

MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
WDTN-5W-HSM revC	15085.84	8037.00	2108.51	-1890.00	1741907.28	445117.51	39°42'52.3049"N
WDTN-5W-HSM LP Rev-2	8035.00	-38.05	783.53	1784427.45	440530.83	39°42'23.3821"N	80°20'14.3031"W
WDTN-5 Horizontal Unit Rev-1	N/A	8680.26	-31.28	4.80	1784427.45	440530.83	39°42'23.3821"N
WDTN-5 Prod Rev-1	N/A	8000.00	-31.28	4.80	1784427.45	440530.83	39°42'23.3821"N

Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	End Local N (ft)	Start Local E (ft)	End Local E (ft)	Wellbore
17.5in Open Hole	29.00	1350.00	1321.00	29.00	1338.00	0.00	0.00	0.00	0.00	WDTN-5W-HSM PWB
13.375in Casing Surface	29.00	1350.00	1321.00	29.00	1338.00	0.00	0.00	0.00	0.00	WDTN-5W-HSM PWB
9.625in Casing Intermediate	29.00	3000.00	2971.00	29.00	3000.00	0.00	0.00	0.00	0.00	WDTN-5W-HSM PWB
5.5in Casing Production	29.00	15085.84	15056.84	29.00	8035.00	0.00	0.00	0.00	0.00	WDTN-5W-HSM PWB

- Do not cross (any limiting boundary); red, bold, solid
- Lease boundary, advisory; black, bold, solid
- Regulatory boundary, advisory; black, bold, dashed
- Geologic boundary, advisory; blue, bold, dashed
- Geologic target boundary, advisory; blue, normal, solid
- Driller's target boundary, advisory; green, normal, solid
- Other type of boundary, advisory; green, bold, dashed

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HDGM2020v10.0 (1900.0 to 2021.0) Dip: 66.62° Field: 52005.1 nT
 Magnetic North is 8.02 degrees West of True North (at 26/Mar/2020)
 Grid North is 0.53 degrees West of True North
 To correct azimuth from True to Grid add 0.53 degrees
 To correct azimuth from Magnetic to Grid subtract 8.49 degrees

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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 1000' buffer around 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 Marcellus Shale of the Wadestown area is found at an approximate True Vertical Depth (TVD) of 7900'. In the Wadestown area, there were very few wells that produced from formations deeper than the Bayard Sand (approximately 3500'). Based on our experience with frac communication and shallow wells, CNX Geology feels that it is highly unlikely for communication to occur with any wells producing in the area above the WDTN5 Pad, due to the Hamilton and Tully being adequate frac barriers. However, if faulting exists, Marcellus frac could grow. Fortunately, the faults seen in the area decoll in the shale below the Bayard, so the chance of communication is unlikely.

The current hypothesis for SOG Communication is that Marcellus frac fluids and pressure intersect and migrate up a nearby fault that acts as a conduit for upward migration and intersection with high permeability reservoirs of the Alexander and Benson. These reservoirs are not developed in the Wadestown. Geomechanical data is collected from dipole sonic logs. CNX's nearest sonic data is from the WDTN5BHSU well (Figure 3), which is the pilot hole on this pad. Frac modeling (Figure 4) of the Marcellus in the area does not show significant upward frac growth.

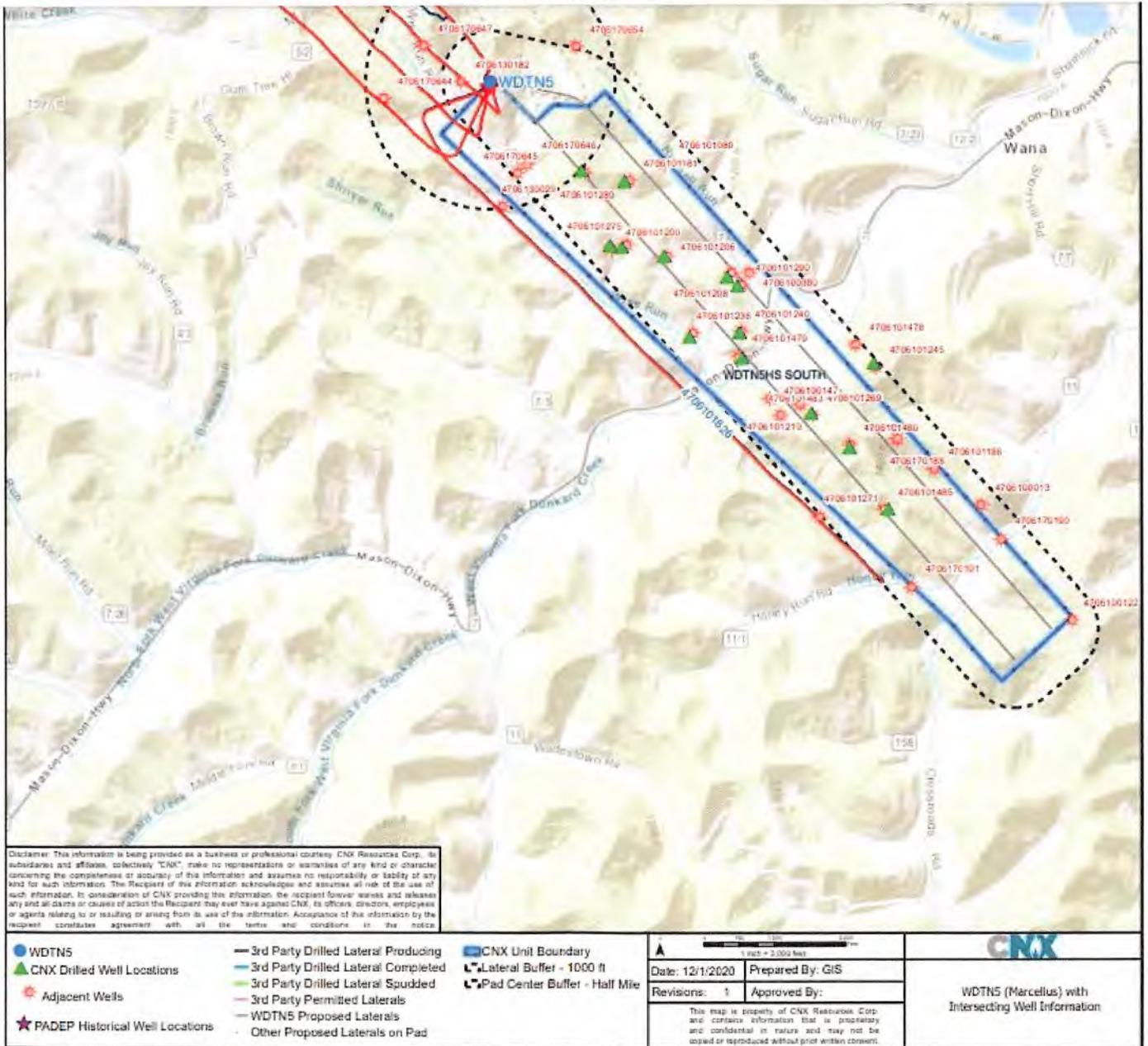
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WDTN5 M2 Pad Frac SOG Review

Friday, January 8, 2021

Figure 1. Only 26 wells lie within a 1000' buffer around the WDTN5 Pad that penetrate the Big Injun Sand or deeper horizons. The deepest well is 3700' and produces from the 5th Sand. No known SOG Communication events have occurred in this area.



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Figure 2. List of wells seen in Figure 1.

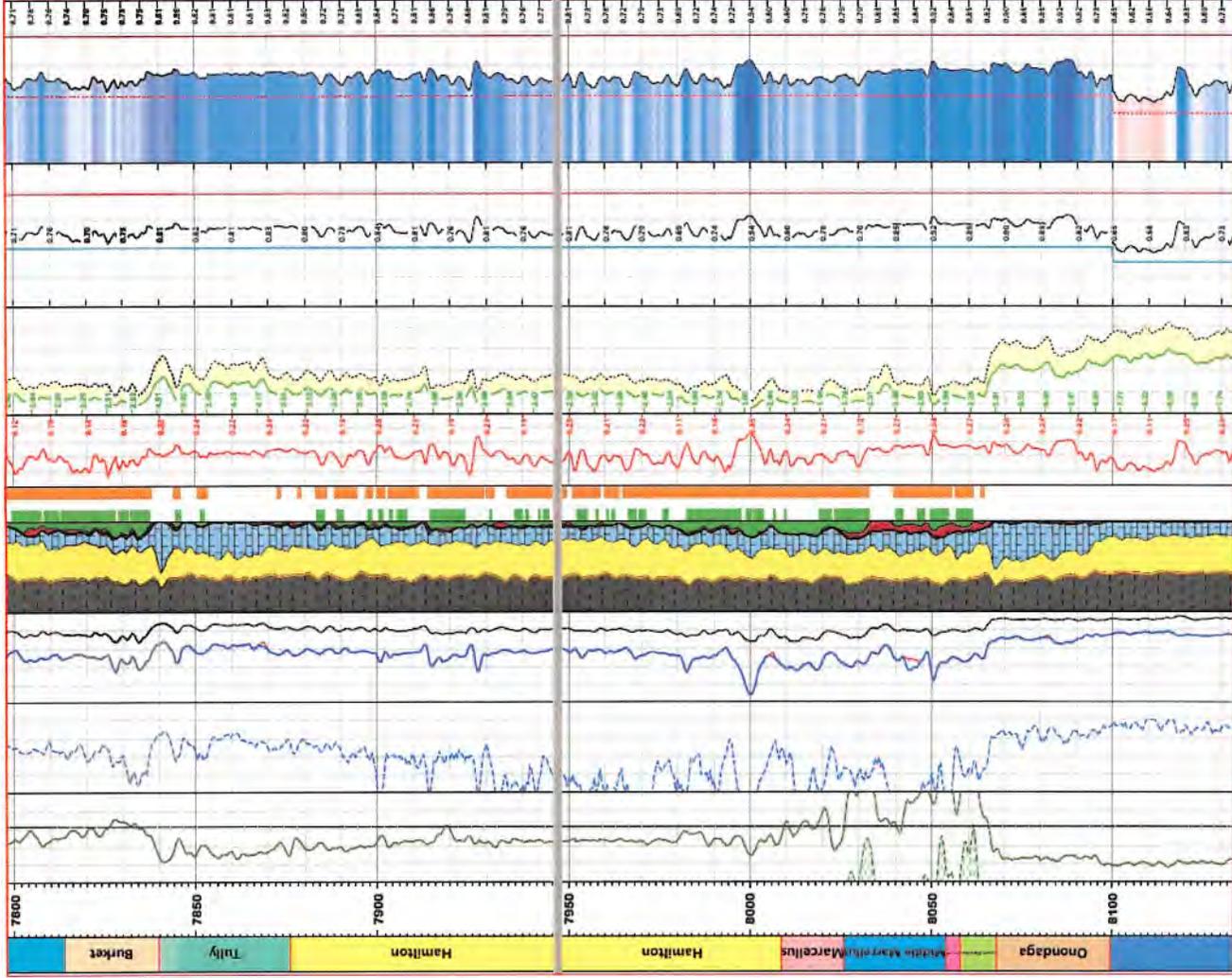
API Number	Well Name	Lease Name	Current Operator	Current Status	Formation At TD	Total Depth
470610056	WHITE, ALEXANDER 1913	WHITE, ALEXANDER 1913	(N/A)	P & A		3475
470610098	WHITE, SARAH J. 1-555	WHITE, SARAH J. 1-555	CARNEGIE PROD CO	P & A		3248
4706101317	WEWV 5349	WEWV 5349	CNX	P & A		
4706101495	THOMAS, DENNIS 10G	THOMAS, DENNIS 10G	CNX	P & A		
4706101793	WDTN5IHSM	WDTN5IHSM	CNX	ACTIVE	MARCELLUS	16366
4706101806	WDTN5BHSU	WDTN5BHSU	CNX	ACTIVE	POINT PLEASANT	19934
4706101823	WDTN5GHSM	WDTN5GHSM	CNX	ACTIVE	MARCELLUS	18237
4706101824	WDTN5HHSM	WDTN5HHSM	CNX	ACTIVE	MARCELLUS	17824
4706101826	WDTN5NHSM	WDTN5NHSM	CNX	ACTIVE	MARCELLUS	21910
4706130029	M C & C WISE HEIRS	M C & C WISE HEIRS	H L TENNIANT	INACTIVE		
4706130182	ZOA WISE	ZOA WISE	PITTSBURGH & WV GAS	INACTIVE		3558
4706130331	THOMAS WHITE HEIRS	THOMAS WHITE HEIRS	MANUFACTURERS LIGHT & HEAT CO	INACTIVE	BAYARD	3331
4706130345	J LAWRENCE HENNEN ET AL	J LAWRENCE HENNEN ET AL	MANUFACTURERS LIGHT & HEAT CO	INACTIVE	THIRTY-FOOT	3448
4706130578	JASPER SHRIVER	JASPER SHRIVER	EQUITABLE GAS COMPANY	INACTIVE	BIG INJUN (PRICE&EQ)	3154
4706170138	THOMAS WHITE	THOMAS WHITE	MANUFACTURERS LIGHT & HEAT CO	INACTIVE		
4706170143	JOHN W WHITE	JOHN W WHITE	(N/A)	INACTIVE		
4706170632	J P HAGAN	J P HAGAN	HOPE NATURAL GAS CO.	INACTIVE		
4706170644	M M WISE	M M WISE	(N/A)	INACTIVE		
4706170645	CAL WISE	CAL WISE	PHILADELPHIA OIL CO	INACTIVE		
4706170646	HENRY SHRIVER	HENRY SHRIVER	(N/A)	INACTIVE		
4706170647	CASSANDER GARRISON	CASSANDER GARRISON	PHILADELPHIA OIL CO	INACTIVE		
4706170648	CASSANDER GARRISON	CASSANDER GARRISON	(N/A)	INACTIVE		
4706170649	CASSANDER GARRISON	CASSANDER GARRISON	MANUFACTURERS LIGHT & HEAT CO	INACTIVE		
4706170650	J S THOMAS	J S THOMAS	BANDY	INACTIVE		
4706170651	JAMES IRVIN WHITE	JAMES IRVIN WHITE	MANUFACTURERS LIGHT & HEAT CO	INACTIVE		
4706170654	M M WISE	M M WISE	MANUFACTURERS LIGHT & HEAT CO	INACTIVE		

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Figure 3. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the Wadestown Area Stress Profile log.



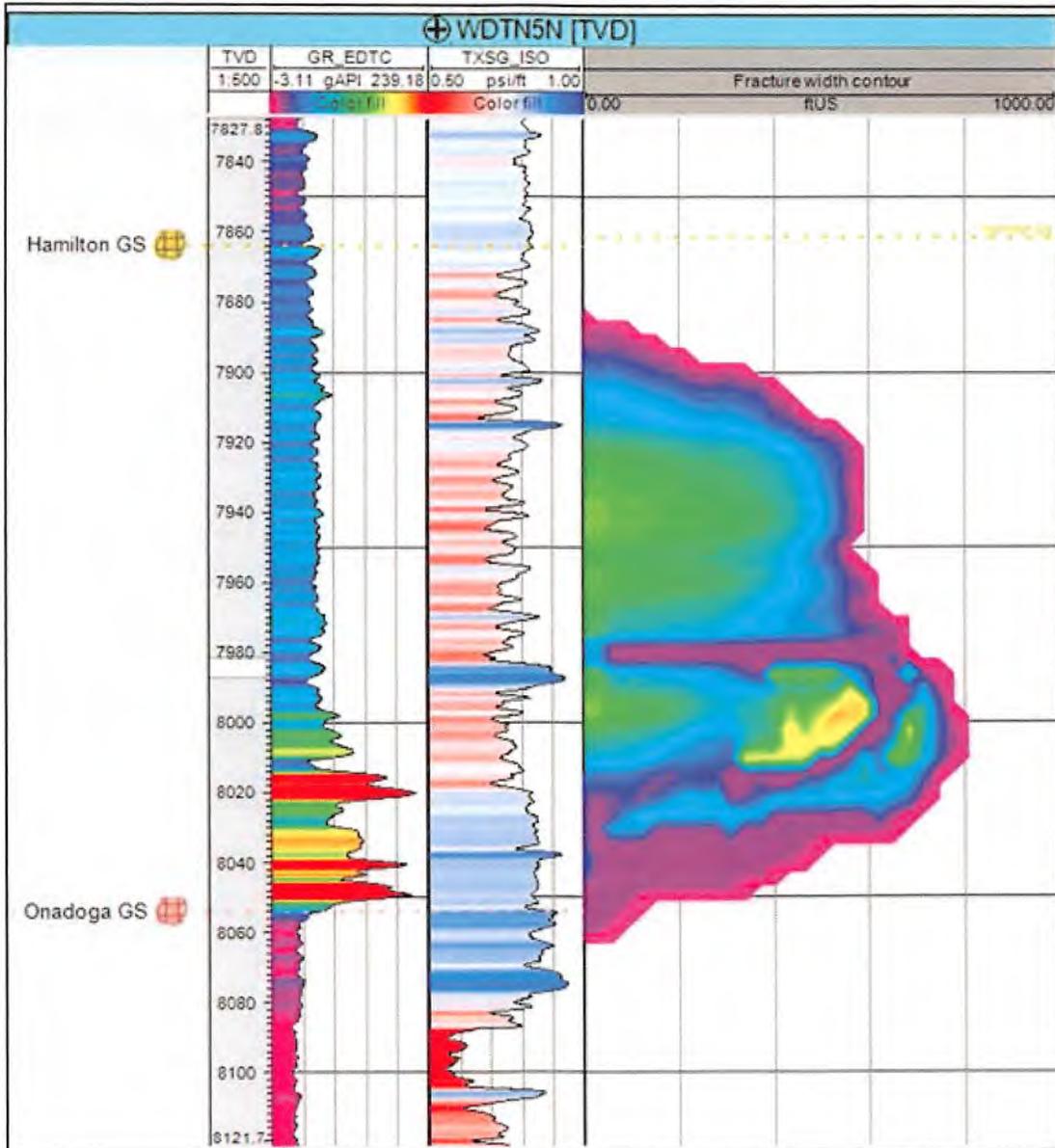
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Figure 4. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the WDTN5B. Frac modeling only yields frac height of approximately 200'.



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WW-9
(4/16)

API Number 47 - D101 - 01871
Operator's Well No. WDTN5WHSM

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, WV

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.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number Shaw 1 Wells (APIs 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 surface to curve start of well (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. Removed offsite

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

-If landfill or offsite name/permit number? See attached list.

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 Sarah Weigand

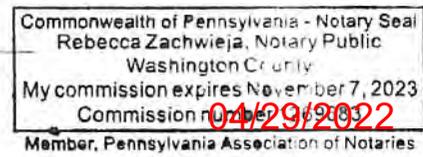
Company Official (Typed Name) Sarah Weigand

Company Official Title Manager Upstream Permitting

~~Commonwealth of Pennsylvania~~, County of Washington
Subscribed and sworn before me this 13th day of April, 2021

Rebecca Zachwieja Notary Public

My commission expires November 7, 2023



CNX Gas Company LLC

Proposed Revegetation Treatment: Acres Disturbed 46.9 Prevegetation pH 6.5

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

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	25	Orchard Grass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Luzan Hamin*

Comments: _____

Title: *Inspector* Date: *4-13-21*

Field Reviewed? () Yes () No

Type of Waste	Disposal Company Name	Disposal Location	Disposal Location Coordinates (Lat., Long.)	Well ID / Name	Permit # (if applicable)	Accepted Waste Streams	Disposal Company Contact Information
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.087460, -82.047918	BPC01	VAS2D960BBUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.222201, -81.959987	N26	VAS2D930BBUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.184198, -82.082549	U7	VAS2D926BBUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Russell County, VA	37.120547, -81.961222	AW114A	VAS2D970BRUS	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.147934, -82.075320	Ball Well	VAS5D921BBUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	Appalachian Water Services (Nuverra Environmental Solutions)	2326 McClellandtown Road, Masontown, PA 15461	39.853056, -79.924786	Appalachian Water	WMGR GP No. 123SW001 WQM Industrial Waste Permit No.: 2608201 A-2	Brine (Produced Water) and oily water from compressor stations.	Rob Bealko 304-291-0383 Office 304-282-8814 Cell rob.bealko@nuverra.com
Brine Injection - Treatment	Gas Field Services, Inc.	200 Camp Creek Road, Camp Creek, WV 25820	37.495138, -81.105161	Camp Creek Disposal Well	UIC: UIC2D0550319 API: 47-055-00319	Class II injection fluids that are in connection with conventional oil or gas production and may be commingled with waste waters from gas plants unless those waters are classified as hazardous wastes at the time of injection.	Zachery Reed zacheryr4@yahoo.com PO Box 555, Rosedale, VA 24280 Phone: (276) 880-2323
Brine Injection - Treatment	Cambrian Well Services - Kemble	Zanesville,	39.974954,	Kemble 1-D	34-119-2-8780	Brine (Produced Water)	Bob Orr
Brine Injection - Treatment	Tall Grass (Formerly Central Environmental Services)	Troy Township, Athens County, Ohio	39.226075, -81.761403	K & H Partners No. 1 (SWIW #8)	34-009-2-3821	Brine (Produced Water)	Mark Ritchie 303-763-3659 Jeff Triplett 304-517-3682 jeffery.triplett@tallgrassenergyllp.com
Brine Injection - Treatment	Tall Grass (Formerly Central Environmental Services)	Troy Township, Athens County, Ohio	39.234815, -81.757167	K & H Partners No. 2 (SWIW #10)	34-009-2-3823	Brine (Produced Water)	Mark Ritchie 303-763-3659 Jeff Triplett 304-517-3682 jeffery.triplett@tallgrassenergyllp.com
Brine Injection - Treatment	Tall Grass (Formerly Central Environmental Services)	Troy Township, Athens County, Ohio	39.235082, -81.748312	K & H Partners No. 3	34-009-2-3824	Brine (Produced Water)	Mark Ritchie 303-763-3659 Jeff Triplett 304-517-3682 jeffery.triplett@tallgrassenergyllp.com
Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Warren Township, OH	39.426278, -81.502379	Order No. 2015-452; Vocational School No. 2 Well; SWIW No. 20	API # 34-167-2-9543-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC Office: 740.371.5078 ext. 206 Cell: 304.588.0936
Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Warren Township, OH	39.425172, -81.507900	Order No. 2015-582; Heinrich Unit #2 Well, SWIW No. 22	API # 34-167-2-9464-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC Office: 740.371.5078 ext. 206 Cell: 304.588.0936

APPROVED WAST FACILITIES (as of 2/1/2021)

Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Warren Township, OH	39.429867, -81.511020	Order No. 2015-581; Heinrich Unit #1 Well, SWIW No. 21	API # 34-167-2-9445-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC Office: 740.371.5078 ext. 206 Cell: 304.588.0936
Brine Injection - Treatment	Environmental Energy Services LLC (Force, Inc.)	Muskingum County, Perry Township, OH	39.973643, -81.825727	Pattison Trust No. 1-D (SWIW #30)	API # 34-119-2-8803	Brine (Produced Water)	Bryan Force Mobile: 412.289.0069 Office: 724.465.9399 bforce@forceincorporated.com
Brine Injection - Treatment	Environmental Energy Services LLC (Force, Inc.)	Barnsville, Belmont County, OH	NEED	Barnsville (SWIW #2)	34-013-2-0609 UIC #609	Frac water, brine, produced water	Bryan Force Mobile: 412.289.0069 Office: 724.465.9399 bforce@forceincorporated.com
Brine Injection - Treatment	EGO Water Solutions LLC	5367 E. State Street, Newcomerstown, OH 43832	40.283293, -81.578068	Mozena #1 Well (SWIW #13)	API # 34-157-2-5511	Brine (Produced Water)	Michael Chapin: Ph. 740-763-3966 Cell 740-403-9664 tantrumr@aol.com Robert Schenken Director Business Development HydroEdge Solutions Wisconsin White Sand rschenken@hydroedgesolutions.com Cell 412.295.3614
Brine Injection - Treatment	Greene County Water Treatment, Inc.	401 Jefferson Rd. Waynesburg, PA 15370	39.908611, -80.141111	Waynesburg Facility	WMGR123SW010	Oil and Gas Fluids with minimal oil and solids present	Gary Carpenter 267-246-6176 JRBGCarpenter@aol.com
Brine Injection - Treatment	Hydro Recovery	572 Route 18 Burgettstown, PA 15021	40.422874, -80.426125	Burgettstown Facility	WMGR123SW019	Oil and Gas Fluids with minimal oil and solids present	Ashley Cromley 570-394-4450 Ashley.cromley@hydrorecoverylp.com
Brine Injection - Treatment	Nuverra	CW3 64000 Endley Rd. Cambridge, OH 43725	NEED	Bo; SWIW No. 20	API # 34-059-24473	Oil and Gas Fluids with any amount of oil and solids	Rob Bealko 304-291-0383 Office 304-282-8814 Cell rob.bealko@nuverra.com
Brine Injection - Treatment	Nuverra	CW5 64036 Wintergreen Rd. Lore City, OH 43755	NEED	Shields #1; SWIW No. 17	API # 34-059-24445	Oil and Gas Fluids with any amount of oil and solids	Rob Bealko 304-291-0383 Office 304-282-8814 Cell rob.bealko@nuverra.com
Brine Injection - Treatment	Nuverra	Goff Disposal 9350 East Pike Norwich, OH 43767	NEED	Goff #1; SWIW No. 27	API # 34-119-28776	Oil and Gas Fluids with any amount of oil and solids	Rob Bealko 304-291-0383 Office 304-282-8814 Cell rob.bealko@nuverra.com
Brine Injection - Treatment	Reserved Environmental Services (RES)	1119 Old Route 119 South Mt. Pleasant, PA 15666	40.215555, -79.606388	New Stanton Facility	WMGR123SW005	Oil and Gas Fluids with minimal oil and solids present	Matt Kicinski 814-574-9701 mkicinski@reswater.com
Brine Injection - Treatment	Reserved Environmental Services (RES)	506 Lippencott Road Waynesburg, PA 15370	39.945555, -80.140833	Waynesburg Facility	WMGR123SW031	Oil and Gas Fluids with minimal oil and solids present	Matt Kicinski 814-574-9701 mkicinski@reswater.com
Brine Injection - Treatment	Silcor Oilfield Services, Inc.	Cambridge, OH	39.993615, -81.572975	SOS-D (SWIW #12)	API # 34-059-24202	Brine (Produced Water)	Matt Brewer HydroEdge Solutions mbrewer@hydroedgesolutions.com (412) 439-7866
Brine Injection - Treatment	Liqui-Gen Energy LLC, DBA Spartan Water Solutions	45874 Sugartree Rd Woodfield, OH 43793	39.757850, -81.082664	Sugartree No. 1Well; SWIW No.5	API # 314-111-2-4759-00-22	Brine (Produced Water)	Ray Phillips ray@spartanwatersolutions.com 724-350-6153

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RW & TENORM	Austin Master Services	1097 N 1st St, Martins Ferry, OH 43935	40.105200, -80.711630	N/A	N/A	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.	Office: 740-609-3800 Jack Bement CEO Austin Master Services LLC 355 Circle of Progress Pottstown PA, 19464 Ph:(585) 704-2744 Fax: 484 624-5506
RW & TENORM	Belmont Solids Control	78405 Cadiz-New Athens Rd. Cadiz, OH 43907	40.233830, -81.003300	N/A	N/A	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.	Dave Brown 412-848-1828 Mark Winsap 330-692-0423; dbrown@ApexLF.com
RW & TENORM	Ground Tech LLC	240 Sinter Court, Youngstown, OH 44510	41.113260, -80.674500	N/A	N/A	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.	Office: (330) 270-9900 Larry Chamberlain 330-398-5919 lchamberlain@iwc-inc.com
RW & TENORM	Mud Masters LLC	64054 Wintergreen Rd Lore City, OH 43725	40.027531, -81.449219	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (≤ 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).	Tom Meinert 740-255-0357 heavymudmasters@gmail.com Billing Address: 739 Southgate Pkwy, Cambridge, Ohio 43725

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APPROVED WAST FACILITIES (as of 2/1/2021)

RW & TENORM	PETTA Enterprises LLC	38 Technology Dr Triadelphia, WV 26059	40.0669, -80.56602	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab. Non-radioactive material & radioactive material handling (NORM/TENORM), solids separation, material downblending, tank cleaning, radiological sampling/testing analysis/lab. Liquid/semi-solids treatment and separation for waste disposal.	Office: 740-341-6396 Kylie Kidwell kylie.petta@gmail.com Kylie Feldner PETTA Enterprises Sales Representative 614-477-1368
RW & TENORM	PETTA Enterprises LLC	713 North Third Street, Cambridge, OH 43725	40.03492, -81.598145	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM) material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab. Non-radioactive material & radioactive material handling (NORM/TENORM), solids separation, material downblending, tank cleaning, radiological sampling/testing analysis/lab. Liquid/semi-solids treatment and separation for waste disposal.	Office: 740-341-6396 Kylie Kidwell kylie.petta@gmail.com Kylie Feldner PETTA Enterprises Sales Representative 614-477-1368
RW & TENORM	Pressure Tech	7675 East Pike Norwich, Ohio 43767	39.97415, -81.844765	N/A	N/A	Non-TENORM wastes including cement water and oil or water based drilling mud only. Are not to accept waste that is known to have elevated levels of TENORM or compressor station water.	Bob Orr: 614-648-8898

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APPROVED WAST FACILITIES (as of 2/1/2021)

RW & TENORM	Troo Clean	41540 National Road Belmont, OH 43718	40.0687, -81.04963	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM) material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab. Non-radioactive material & radioactive material handling (NORM/TENORM), solids separation, material downblending, tank cleaning, radiological sampling/testing analysis/lab. Liquid/semi-solids treatment and separation for waste disposal.	Orin David Orin.david@trooclean.com 918-413-6426
RW & TENORM	Liqui-Gen Energy LLC, DBA Spartan Water Solutions	LGE Woodsfield Facility 45874 Sugartree Rd Woodsfield, OH 43793	39.757850, -81.082664	N/A	N/A	Brine (Produced Water), Oily waste water, containment water, TENORM	Ray Phillips ray@spartanwatersolutions.com 724-350-6153
Tank or Vessel Cleanout	Ground Tech LLC	240 Sinter Court, Youngstown, OH 44510	N/A	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (≤ 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).	Larry Chamberlain 330-398-5919 lchamberlain@iwc-inc.com
Tank or Vessel Cleanout	EnviroTrac	941 Canyon Road Morgantown, WV 26508	N/A	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (≤ 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).	Office: (304)322-2614 Cell: 337-321-1883 Steve Thubron sthubron@envirotrac.com https://envirotrac.com

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APPROVED WAST FACILITIES (as of 2/1/2021)

Tank or Vessel Cleanout	Apex Energy Service	3901 Washington Road Suite 201 Canonsburg, PA 15317	N/A	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (≤ 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).	Office: 1-855-301-2739 Cell: 724-809-6025 Brian Hall Bhall@apexservice.us.com https://apexservice.us
Tank or Vessel Cleanout	Northern A1	PO BOX 1030 3947 US 131 NORTH KALKASKA, MI 49646	N/A	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (≤ 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).	Mike Newman Miken@Northern1.com 231-564-2362
Tank or Vessel Cleanout	Entegra Energy Solutions	8391 Mount Clare Rd Lost Creek, WV 26385	N/A	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (≤ 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).	Wellington Sutton sutton@entegraenergy.com 304-745-3043

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Tank or Vessel Cleanout	BBU of WV	986 Kentuck Rd Kenna, WV 25248	N/A	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (≤ 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).	Troy 304-531-9398
Tank or Vessel Cleanout	Roughcut	128 Overbaugh Ave St Clairsville, OH 43950	N/A	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (≤ 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).	Roy Malone roy.malone@roughcutllc.com 740-827-6668
Tank or Vessel Cleanout	IPC Energy Services	232 E Lancaster Road Harmony, PA 16037	N/A	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (≤ 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).	Craig Altman 724-452-3850 craig.altman@insightpipe.com Stephanie McKinney 412-584-6961 stephanie.mckinney@insightpipe.com
Non-Haz Disosal	Republic Services - Imperial (Allied Waste of PA)	11 Boggs Rd, Imperial, PA 15126	N/A	Imperial Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings/Frac Sand, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Friable Asbestos, Non-Friable Asbestos, Municipal Solid Waste	Jack Palermo - jpalermo@republicservices.com, 330-536-7575

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APPROVED WAST FACILITIES (as of 2/1/2021)

Non-Haz Disosal	Mascaro & Sons- Wetzel Co LF	1521 Wetzel County Landfill Rd. New Martinsville, WV 26155	N/A	Wetzel County Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings/Frac Sand, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum) Construction & Demolition Waste, Industrial Waste, Process Waste, Municipal Solid Waste	Terry Gadd terry.gadd@jpmascaro.com, 610-636- 4133
Non-Haz Disosal	Noble Environmental Landfill (Former Westmoreland Waste)	111 Conner Lane, Belle Vernon, PA 15012	N/A	Noble / Westmoreland Sanitary Landfill		Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Friable Asbestos, Non-Friable Asbestos, Municipal Solid Waste	Customer Service: (724) 929-7694
Non-Haz Disosal	MAX Environmental - Bulger Facility	200 Max Drive, Bulger, PA 15019	N/A	Bulger Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Solidification Services, Municipal Solid Waste	Corporate Office: 412.343.4900 Carl Spadaro: 412-343-4900 cspadaro@maxenvironmental.com cell: 412-445-9789
Non-Haz Disosal	Apex Sanitary Landfill (Apex Environmental)**	11 County Road 78 Amsterdam, Ohio 43903	N/A	Apex Environmental Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Solidification Services, Municipal Solid Waste **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.	Landfill Office: (740) 543-4389 Dave Brown 412-848-1828, dbrown@ApexLF.com

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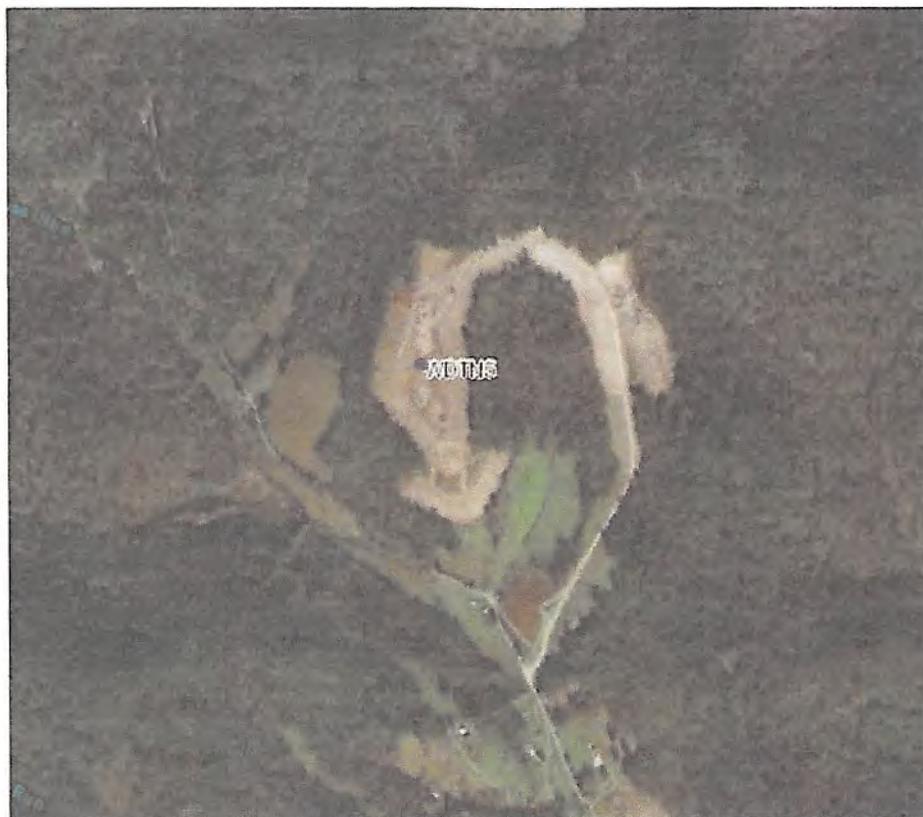
Oily & Oily Water Treat - Recycle	Quala	515 Industrial Blvd., Wooster, OH 44691	N/A	N/A	N/A	Non-hazardous wastewater, transportation, treatment and disposal facility. Also offer transportation and solidification services.	330-264-8080 (O) jslater@quala.us.com
Oily & Oily Water Treat - Recycle	Spirit Services, Inc.	173 Industrial Park Ln., Beech Bottom, WV 26030	N/A	N/A	N/A	Approved for non-haz water treatment of oil & water mix. Also offer transportation and solidification services. Capable of other types of waste disposal and handling with prior Environmental and Supply Chain approval.	1-866-670-9034 Joe Staton: 717-360-7916 Office: 301-223-1251 Fax: 301-223-1253 jstaton@spiritservices.com
Oily & Oily Water Treat - Recycle	Valicor Environmental Services LLC	515 N. 8th Ave, Huntington, WV 25201	N/A	N/A	N/A	Approved for non-haz water treatment of oil & water mix, oil, oil filters, and antifreeze only.	Corporate Number: 734-442-2353 Guy Turturice gturturice@valicor.com 304-963-1563 Steve Atkinson SAtkinson@valicor.com

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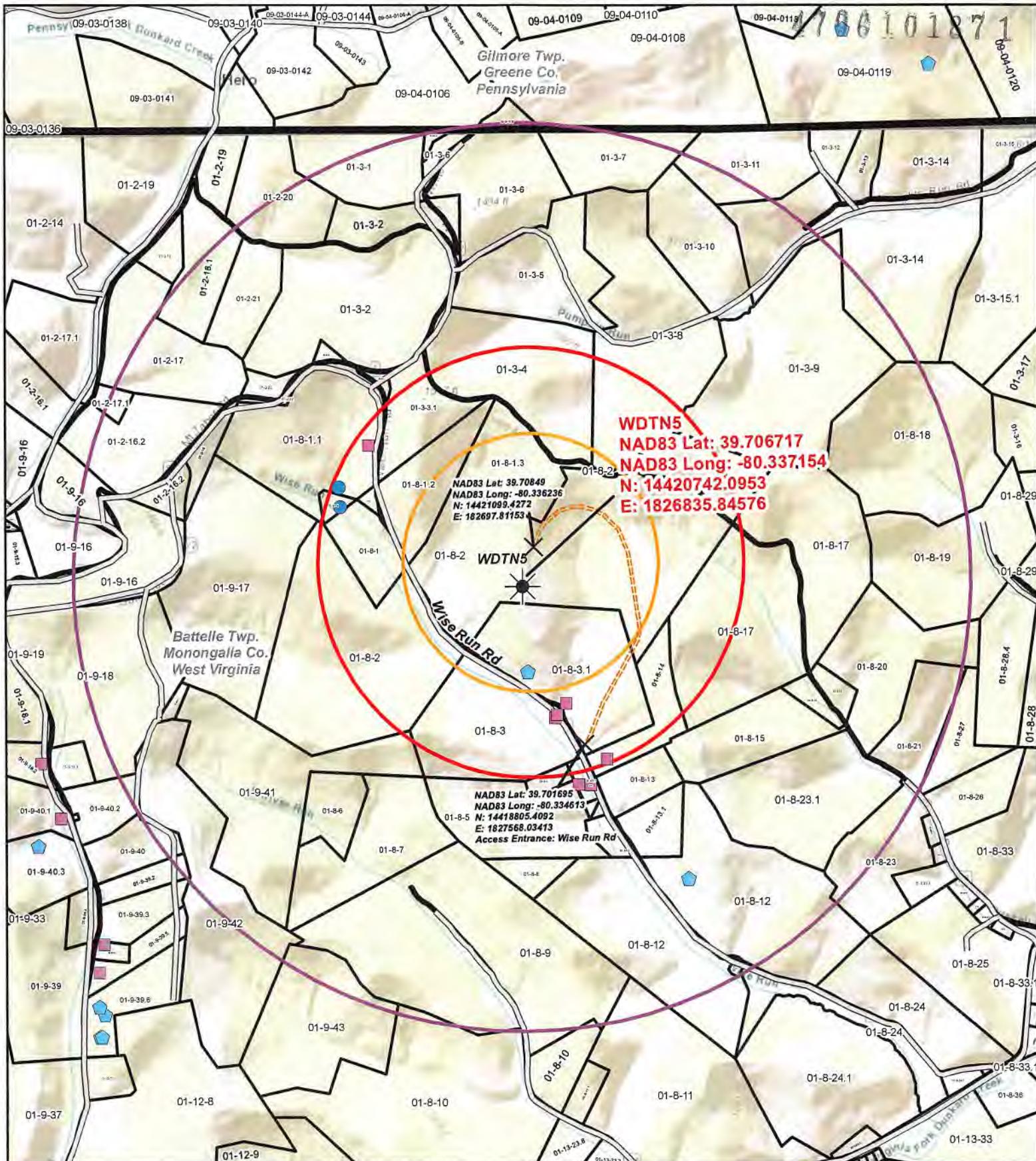


**Site Safety Plan for Wells WDTN5WHSM
CNX Gas Company, LLC.**



Bryan O'Hara
2-8-21

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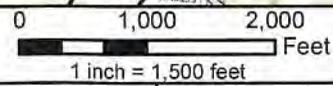
WDTN5
NAD83 Lat: 39.706717
NAD83 Long: -80.337154
N: 14420742.0953
E: 1826835.84576

NAD83 Lat: 39.70849
NAD83 Long: -80.336236
N: 14421093.4272
E: 182697.81153

NAD83 Lat: 39.701695
NAD83 Long: -80.334613
N: 14418805.4092
E: 1827568.03413
Access Entrance: Wise Run Rd

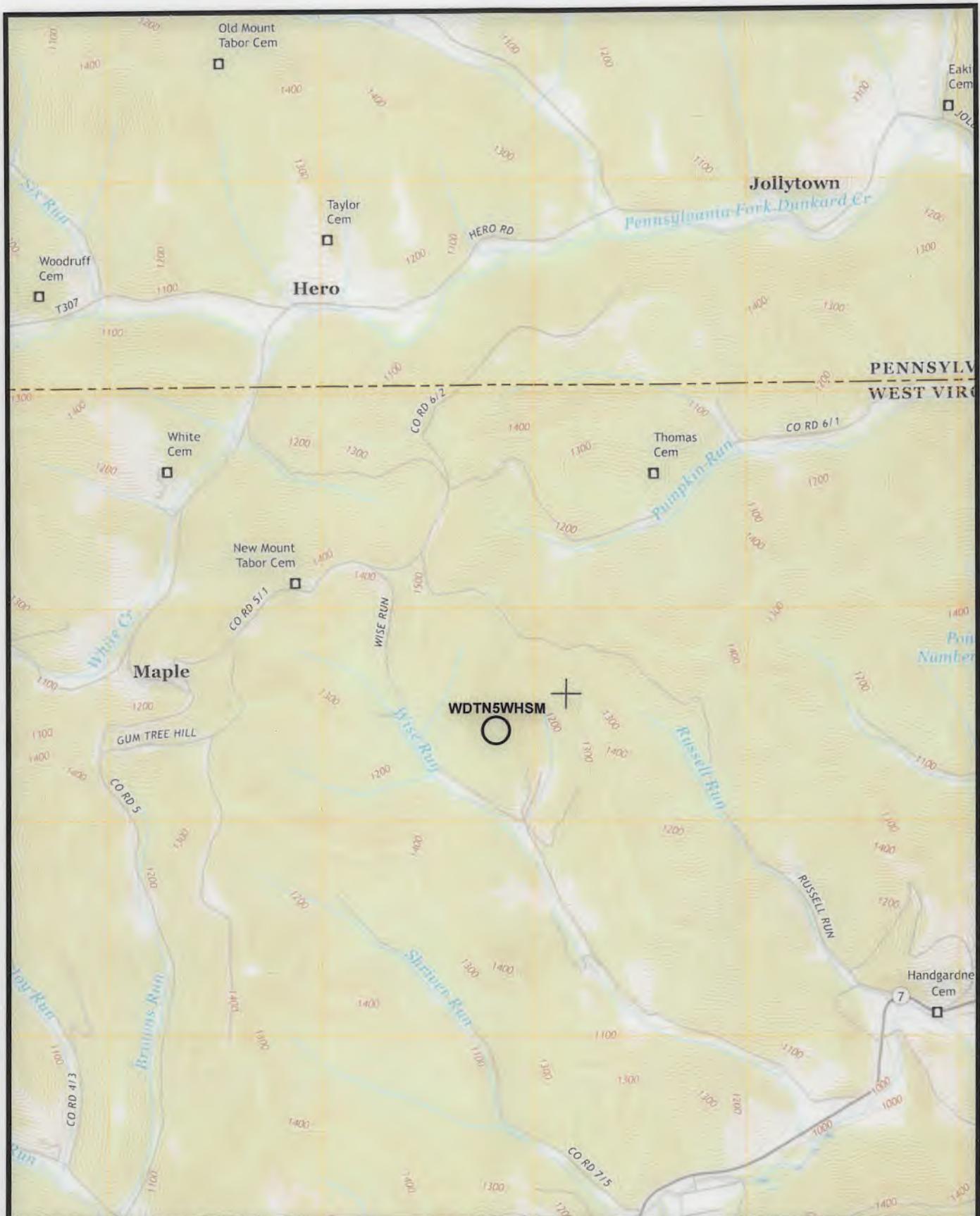
Legend

- Wellbore
- Pond
- Spring
- Water Well
- Access Points
- Access Road
- 1 Mile Buffer
- 2,500 Foot Buffer
- 1,500 Foot Buffer
- Surface Parcel



Original Date: 1/12/2021	Prepared By: GIS
Revision Date: 1/12/2021	Approved By: GIS
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WDTN5
Topo/Ground Water Map
04/29/2022



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



DATE: January 21, 2021, Revised: February 4, 2021

OPERATOR'S WELL #: WDTN5WHSM

API WELL # 47 061 01871 N64
 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

04/29/2022

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 8,035' TMD: 15,085'
 WELL OPERATOR: CNX GAS COMPANY, LLC DESIGNATED AGENT: ANTHONY KENDZIORA
 Address: 1000 CONSOL ENERGY DRIVE Address: 1000 CONSOL ENERGY DRIVE
 City CANONSBURG State PA Zip Code 15317 City CANONSBURG State PA Zip Code 15317

SHL is located on topo map 561 feet south of Latitude: 39° 42' 30" SHL
 BHL is located on topo map 10,505 feet south of Latitude: 39° 45' 00" SHL

SHL is located on topo map 1,090 feet west of Longitude: 80° 20' 00"
 BHL is located on topo map 3,940 feet west of Longitude: 80° 20' 00"

WELL HEAD DETAIL



SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83(M)
 N: 4395424.622
 E: 556816.641
 NAD27 - WV NORTH
 N: 440609.518
 E: 1764397.114
 LAT/LON - NAD83
 LAT: 39°42'24.446"
 LON: 80°20'13.972"

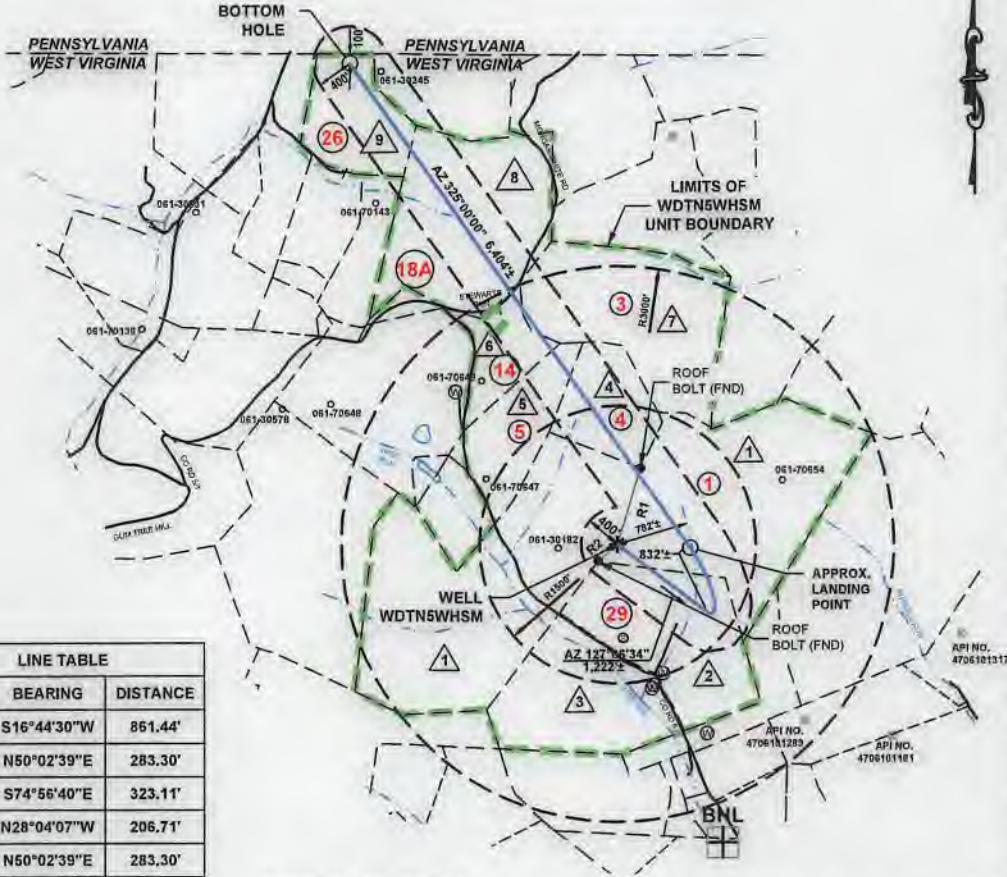
APPROXIMATE LANDING POINT

UTM 17 - NAD83(M)
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 NAD27 - WV NORTH
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 LAT/LON - NAD83
 LAT: 39°42'24.142"
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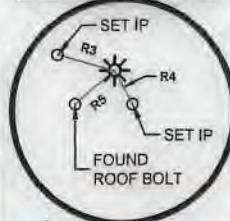
BOTTOM HOLE LOCATION (BHL)

UTM 17 - NAD83(M)
 N: 4396996.625
 E: 555909.754
 NAD27 - WV NORTH
 N: 445817.514
 E: 1761507.287
 LAT/LON - NAD83
 LAT: 39°43'15.650"
 LON: 80°20'51.575"

LINE #	BEARING	DISTANCE
R1	S16°44'30"W	851.44'
R2	N50°02'39"E	283.30'
R3	S74°56'40"E	323.11'
R4	N28°04'07"W	206.71'
R5	N50°02'39"E	283.30'



REFERENCE DETAIL



MINERAL TRACT BOUNDARY = 528.876 ACRES

LEGEND

	TOPO MAP POINT		PROPOSED WELL		WATER SOURCE		SPRING		SURFACE TRACT		LEASED NUMBER BASED ON ATTACHED WDTN5W
	RECORD GAS WELL		UNKNOWN WELL		ALL ARE POINTS UNLESS OTHERWISE NOTED		LEASE BOUNDARY		PROPOSED HORIZONTAL WELL		SURFACE, OIL & GAS LINES
	SURFACE TRACT LINES ONLY		GAS LEASE LINES ONLY		WELL REFERENCE		STREAM/WATERWAY		ROAD		FORCED POOLING AREAS

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

- NOTES:**
1. There are no water wells or developed springs within 250' of proposed well.
 2. There are no existing buildings within 625' of proposed well.
 3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 4. There are no native trout streams within 300' of proposed well.
 5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 6. 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 #: WDTN5WHSM
 DRAWING #: 3601 - WDTN5W.DWG
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE: USGS MONUMENT
 OF ELEVATION: JX1864: 1,496.32'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

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



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



DATE: January 21, 2021, Revised: February 4, 2021
 OPERATOR'S WELL #: WDTN5WHSM
 API WELL # 47 061 01871 H64
 STATE COUNTY PERMIT

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

WATERSHED: DUNKARD CREEK ELEVATION: 1390'
 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

04/29/2022

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

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 WELL OPERATOR: CNX GAS COMPANY, LLC DESIGNATED AGENT: ANTHONY KENDZIORA
 Address: 1000 CONSOL ENERGY DRIVE Address: 1000 CONSOL ENERGY DRIVE
 City CANONSBURG State PA Zip Code 15317 City CANONSBURG State PA Zip Code 15317

SURFACE TRACT OWNERS & TAX PARCEL			Tract ID	Tax Map & Parcel	Grantor, Lessor, etc	Surface Owner
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2. BARBARA J WAGNER	TM# 1-8-3.1				Judy A. Eckman	
3. BARBARA WAGNER	TM# 1-8-3				Thomas E. McCauley	
4. EDWARD L THOMAS, DAVID WAYNE & DOROTHY L STEWART	TM# 1-8-1.3				Regina Wise Myers, aka Violet Regina Myers	
5. DAVID W & ELIZABETH K DEATON	TM# 1-8-1.2				Evalee A. Everly Shaheen	
6. STEVEN M MACYDA	TM# 1-3-3.1				Zelda Ruth Brummage	
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9. ROY L HALL	TM# 1-2-20				James Freeman Stewart	
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				Victor E. Wise, a single man		
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				Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen		
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1712 Mount Nebo Road Phone: 412-219-4509
 Sewickley, PA 15143 Email: info@shefflerco.com

DATE: January 21, 2021, Revised: February 4, 2021

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

OPERATOR'S WELL #: WDTN5WHSM

API WELL # 47 STATE 061 COUNTY 01271 PERMIT 144

WATERSHED: DUNKARD CREEK

ELEVATION: 1412'

COUNTY/DISTRICT: MONONGALIA / BATTELLE

QUADRANGLE: WADESTOWN, WV

SURFACE OWNER: JOHN M. WISE, ET UX., ET AL.

ACREAGE: 207.36

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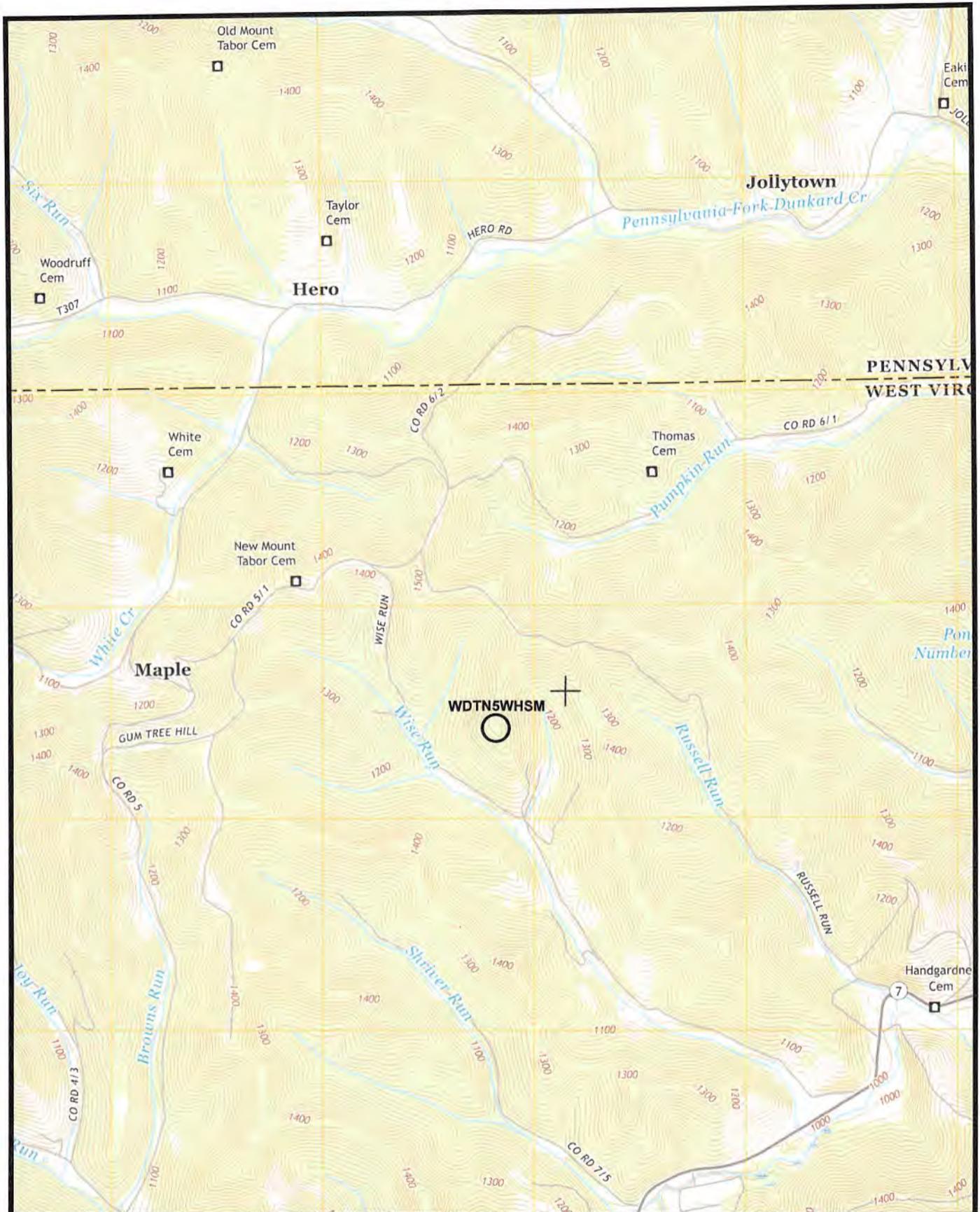
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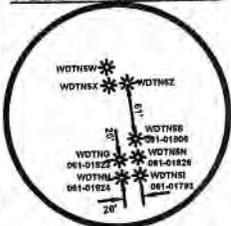
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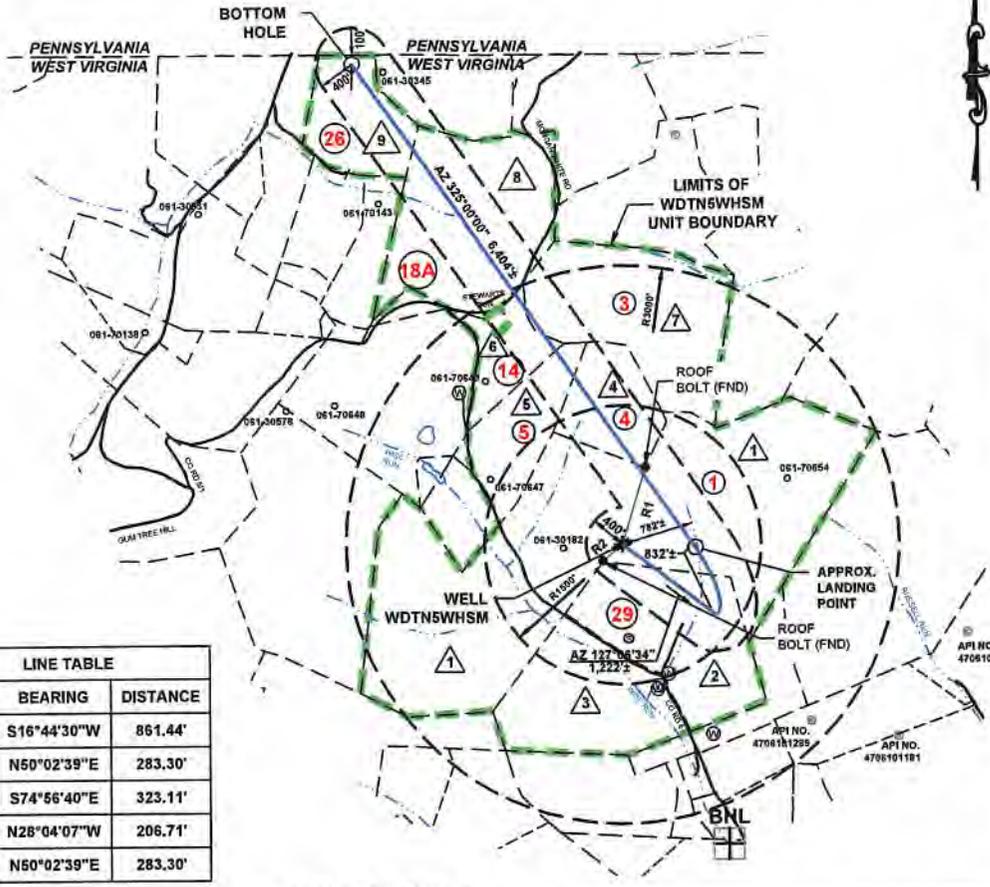


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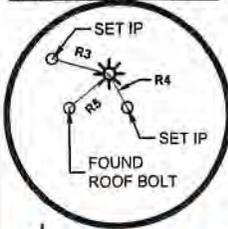
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MINERAL TRACT BOUNDARY = 528.876 ACRES

LEGEND

	TOPO MAP POINT		PROPOSED WELL
	WATER SOURCE		SPRING
	SURFACE TRACT		LEASED NUMBER BASED ON ATTACHED WDTNSW
	WELLS WITHIN 3000'		RECORD GAS WELL
	UNKNOWN WELL		FORCED POOLING AREAS
	ALL ARE POINTS UNLESS OTHERWISE NOTED		LEASE BOUNDARY
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	ROAD		

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DATE: January 21, 2021, Revised: February 4, 2021

OPERATOR'S WELL #: WDTNS5WHSM

API WELL # 47 061 01871
 STATE COUNTY PERMIT

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 Gas Liquid Injection Storage Shallow

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04/29/2022

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5. DAVID W & ELIZABETH K DEATON	TM# 1-8-1.2			Evalie A. Everty Shaheen	
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



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DATE: January 21, 2021, Revised: February 4, 2021

Well Type: Oil Waste Disposal Production Deep
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Address: 1000 CONSOL ENERGY DRIVE Address: 1000 CONSOL ENERGY DRIVE
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**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

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

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

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

See Attached

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

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

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

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

Well Operator: CNX GAS COMPANY LLC
 By: Sarah Weigand
 Its: Manager Upstream Permitting

Sarah Weigand

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1	1-8-2	189010000	Richard L. McCauley	CNX Gas Company LLC	Not less than 1/8	1442/707
			Judy A. Eckman	CNX Gas Company LLC	Not less than 1/8	1442/711
			Thomas E. McCauley	CNX Gas Company LLC	Not less than 1/8	1442/715
			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
			Evalee A. Everly 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
			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
			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
			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
			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
			Victor E. Wise, a single man	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
			Jesse D. Jones, a married man	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
			Phyllis J. Petrosky, a widowed woman	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
			Annette E. Stewart, single	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
			Harold M. Jones, Jr., a single man	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
						1520/433
			Robert Stewart	CNX Gas Company LLC	Not less than 1/8	1520/785
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	131/212
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			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
			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
			Donald D. Wise, aka Donald G. 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
			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
			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
			Michelle L. Currence	CNX Gas Company LLC	Not less than 1/8	1528/431
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Justin P. Stewart, single	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
			Debra 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
			Eleanor J. Wise, single	CNX Gas Company LLC	Not less than 1/8	1501/809
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	135/323
			Donald E. Nunley and Deborah L. Nunley	CNX Gas Company LLC	Not less than 1/8	1596/260
			Fred C. Wise and Alice F. Wise	CNX Gas Company LLC	Not less than 1/8	1597/89
			Patricia J. Mumaw and Richard L. Mumaw	CNX Gas Company LLC	Not less than 1/8	1598/230
			Richard A. Nunley and Diana K. Nunley	CNX Gas Company LLC	Not less than 1/8	1597/99
			Mary Nunley Stepelton and Donald Stepelton	CNX Gas Company LLC	Not less than 1/8	1597/85
			Linda Stapp	CNX Gas Company LLC	Not less than 1/8	1601/621
			Melissa A. Bookout	CNX Gas Company LLC	Not less than 1/8	1602/111
			Jane Irons, widow	CNX Gas Company LLC	Not less than 1/8	1602/108
			Eileen Ann Lyle	CNX Gas Company LLC	Fee	1600/462
			Robert Eugene Michael, Sr.	CNX Gas Company LLC	Fee	1599/282
			Frank Dennis Michael, Jr.	CNX Gas Company LLC	Fee	1599/267
			Evelyn June Michael	CNX Gas Company LLC	Fee	1600/800
			Tonya Chersin	CNX Gas Company LLC	Fee	1601/148
			Boyd Hawkins	CNX Gas Company LLC	Fee	1601/148
			Becky L. Hawkins f/k/a Becky Bortnick	CNX Gas Company LLC	Fee	1601/148
			Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen	CNX Gas Company LLC	Not less than 1/8	144/123

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			Earl Lynn Taylor	CNX Gas Company LLC	Not less than 1/8	1498/684
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	126/654
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Harland Thomas	CNX Gas Company LLC	Fee	1609/350
			David E. Thomas	CNX Gas Company LLC	Fee	1611/55
			Marylou Dixon	CNX Gas Company LLC	Fee	1611/46
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
4	1-8-1.3	239934000	CBC Holdings, LLC	CNX Gas Company LLC	Not less than 1/8	1375/675
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	131/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Dorothy L. Stewart and Harold L. Stewart Jr.	CNX Gas Company LLC	Not less than 1/8	1599/680
			David Wayne Thomas	CNX Gas Company LLC	Not less than 1/8	1599/685
			Edward L. Thomas and Diana Lee Thomas	CNX Gas Company LLC	Not less than 1/8	1599/675
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5	1-8-1.2	205005000	CBC Holdings, LLC	CNX Gas Company LLC	Not less than 1/8	1375/675
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	131/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			David W. Deaton and Elizabeth K. Deaton, h/w	CNX Gas Company LLC	Not less than 1/8	1459/36
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/270
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
14	1-3-3.1	204775000	CBC Holdings, LLC	CNX Gas Company LLC	Not less than 1/8	1375/675
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	131/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Steven M. Macyda	CNX Gas Company LLC	Not less than 1/8	1520/461
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
18A	p/o 1-3-2	205498000	David C. White, et ux	CNX Gas Company LLC	Not less than 1/8	1614/136
			Bettyann Reed	CNX Gas Company LLC	Not less than 1/8	1612/556
			Nancy Emerick	CNX Gas Company LLC	Not less than 1/8	1614/145
			Edith B. White	CNX Gas Company LLC	Not less than 1/8	1614/649
			Mary Ann Borkowski, et vir	CNX Gas Company LLC	Not less than 1/8	1614/645
			Jan W. Ellison, et vir	CNX Gas Company LLC	Not less than 1/8	1614/704
			Jane E. McIntyre, et vir	CNX Gas Company LLC	Not less than 1/8	1614/708
			Richard H. Benson II	CNX Gas Company LLC	Not less than 1/8	1520/494
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Carol Sue Davis	CNX Gas Company, LLC	Not less than 1/8	1517/242
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Karen Imogene Meyers	CNX Gas Company LLC	Not less than 1/8	1520/498
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Edwin Ray White II	CNX Gas Company LLC	Not less than 1/8	1520/502
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Anita Susan Talbott	CNX Gas Company LLC	Not less than 1/8	1521/773
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Alvy Scott White	CNX Gas Company LLC	Not less than 1/8	1521/777
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Robert L. Tate Jr.	CNX Gas Company LLC	Not less than 1/8	1526/591
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Frederick C. Tate	CNX Gas Company LLC	Not less than 1/8	1527/558
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Robert S. Elliot	CNX Gas Company LLC	Not less than 1/8	1529/679
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Lucy Mae Stickle	CNX Gas Company LLC	Not less than 1/8	1529/675
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Timothy J. Tate	CNX Gas Company LLC	Not less than 1/8	1527/663
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Alex Tate	CNX Gas Company LLC	Not less than 1/8	1528/243
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Jennifer Marie Carrington	CNX Gas Company LLC	Not less than 1/8	1529/272
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/292
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Marian Rebecca Stone Garrett	CNX Gas Company LLC	Not less than 1/8	1527/235
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Patricia Kathleen White Hoekstra	CNX Gas Company LLC	Not less than 1/8	1527/239
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Donald Edward Stone	CNX Gas Company LLC	Not less than 1/8	1605/624
			Doris Jean White	CNX Gas Company LLC	Not less than 1/8	1605/329
			David Ray Stone	CNX Gas Company LLC	Not less than 1/8	1606/619
			Victor White	CNX Gas Company LLC	Not less than 1/8	131/25
			Melinda Reid Hatton	CNX Gas Company LLC	Not less than 1/8	131/25
			Dennis Frederick Hatton Jr.	CNX Gas Company LLC	Not less than 1/8	131/25
			Amanda Hatton	CNX Gas Company LLC	Not less than 1/8	131/25
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
26	1-2-20	239936000	Merrion Oil and Gas Corporation	EQT Production Company	Not less than 1/8	1516/268

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			EQT Production Company	CNX Gas Company LLC	Assignment	135/765
			Hu's Land & Minerals, LLC	EQT Production Company	Not less than 1/8	1516/270
			EQT Production Company	CNX Gas Company LLC	Assignment	135/765
29	1-8-3 1-8-3.1	204769000	Barbara J. Wagner, a widow	CNX Gas Company LLC	Not less than 1/8	1506/533
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	128/628
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Donald L. White, et al	CNX Gas Company LLC	Not less than 1/8	1507/427
			CNX Gas Company, LLC	Noble Energy, Inc.	Assignment	129/312
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339
			Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008	CNX Gas Company LLC	Not less than 1/8	1515/794
			Noble Energy, Inc.	CNX Gas Company, LLC	Assignment	131/339

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Environmental Protection

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04/29/2022



Sarah Weigand
Manager Upstream Permitting
Work: 724-485-3244
Email: SarahWeigand@cnx.com

CNX Center
1000 CONSOL Energy Drive
Canonsburg, PA 15317-6506
724-485-4000
cnx.com

January 21, 2021

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

RE: Road Letter – WDTN5 Well Pad Drilling Applications

To Whom It May Concern:

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

If any further information or correspondence is required, please contact me at (724) 485-3244 or SarahWeigand@cnx.com.

Sincerely,

A handwritten signature in cursive script that reads 'Sarah Weigand'.

Sarah Weigand

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

Date of Notice Certification: 2/12/2021

API No. 47- _____
Operator's Well No. WDTN5WHSM
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>556816.641</u>
County: <u>Monongalia</u>		Northing: <u>4395424.622</u>
District: <u>Batelle</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.

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

Required Attachments:

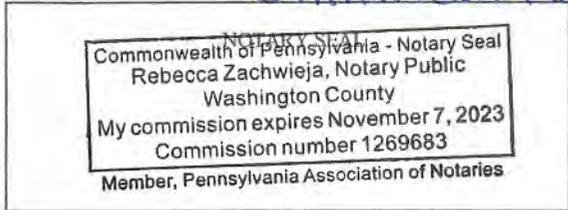
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

Certification of Notice is hereby given:

THEREFORE, I Sarah Weigand, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: CNX GAS COMPANY LLC Address: 1000 CONSOL ENERGY DRIVE
By: SARAH WEIGAND *Sarah Weigand* CANONSBURG, PA 15317
Its: MANAGER UPSTREAM PERMITTING Facsimile: _____
Telephone: 724-485-3244 Email: SARAHWEIGAND@CNX.COM

Commonwealth of Pennsylvania, County of Washington



Subscribed and sworn before me this 17 day of February, 2021
Rebecca Zachwieja Notary Public
My Commission Expires November 7, 2023

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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

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

Date of Notice 2/12/2021 **Date Permit Application Filed:** 2/19/2021

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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FEB 25 2021

WV Department of
Environmental Protection
04/29/2022

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

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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 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

WV Department of Environmental Protection

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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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.**

WW-6A
(8-13)**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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Environmental Protection

04/29/2022

WW-6A
(8-13)

4706101871

API NO. 47- -
OPERATOR WELL NO. WDTN5WHSM
Well Pad Name: WDTN5

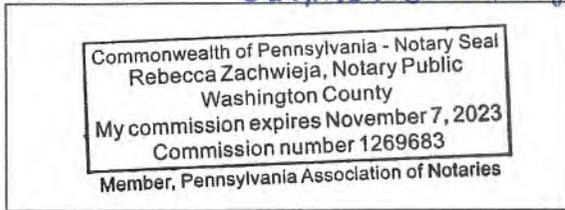
Notice is hereby given by:

Well Operator: CNX GAS COMPANY LLC Address: 1000 CONSOL ENERGY DRIVE
Telephone: 724-485-3244 CANONSBURG, PA 15317
Email: SARAHWEIGAND@CNX.COM *Sarah Weigand* Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Commonwealth of Pennsylvania, County of Washington



Subscribed and sworn before me this 12 day of February 2021

Rebecca Zachwieja Notary Public

My Commission Expires November 7, 2023

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Environmental Protection

04/29/2022

WW6A Notice of Application - Attachment

WDTN5WHSM

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

✓ Annette Stewart

41 Mimosa Dr., Martinsburg, WV 25404

✓ Benjamin Michael Wise

61 Carlton Dr. Eighty Four, PA 15330

✓ Brandon Sweeney

18501 Clagget Landing, Upper Marlboro, MD 20774

✓ Brianna Skyler Sweeney

18502 Clagget Landing, Upper Marlboro, MD 20774

✓ Bryan Kevin Goff

2911 Heather Ct. Chesapeake Beach, MD 20732

✓ Clifford J. Wise

2394 County Road 137, Obrien, FL 32071

✓ CNX Gas Company LLC

1000 Consol Energy Drive, Canonsburg, PA 15317

J Dawn Hughes

1134 Brooke Rd., Stafford, VA 22405

J Dexter Murle Stewart

1283 Crossroads Road, Fairview, WV 26570

J Donald Nunley

36 Autumn Drive, Core, WV 26541

J Eleanor Wise

126 Fairview Ave., Waynesburg, PA 15370

J Evalee A. Everly

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

J Frederick C. Wise

1 West Hills Drive, Fairmont, WV 26554

J Harold M. Jones

317 Crest Ave., Charleroi, PA 15022

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✓ James Freeman Stewart
1206 Marion Ave. Fairmont, WV 26554

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

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

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

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

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

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

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

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

✓ Michelle Currence
1 Carroll Drive, Stafford, VA 22554

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

✓ Patricia Mumaw
3344 Northridge Drive, Wooster, OH 44691

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

✓ Regina W. Myers
22 Jason Way, Fairmont, WV 26554

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

✓ Richard Nunley
261 Festival Drive, Oceanside, CA 92057

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

Terry Allen Wise
61 Carlton Dr. Eighty Four, PA 15330

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

Wally Currence
16200 Bealle Hill Road, Waldorf, MD 20601

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

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

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

Pg. 1 of Receipts

Coal Owner or Lessee:

Annette Stewart
41 Mimosa Dr., Martinsburg, WV 25404

Benjamin Michael Wise
61 Carlton Dr. Eighty Four, PA 15330

Brandon Sweeney
18501 Clagget Landing, Upper Marlboro, MD 20774

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

Bryan Kevin Goff
2911 Heather Ct. Chesapeake Beach, MD 20732

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

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

Dawn Hughes
1134 Brooke Rd., Stafford, VA 22405

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Dexter Murle Stewart
1283 Crossroads Road, Fairview, WV 26570

Donald Nunley
36 Autumn Drive, Core, WV 26541

Eleanor Wise
126 Fairview Ave., Waynesburg, PA 15370

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

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

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

James Freeman Stewart
1206 Marion Ave. Fairmont, WV 26554

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

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

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

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

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

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

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

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

Michelle Currence
1 Carroll Drive, Stafford, VA 22554

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

Patricia Mumaw
3344 Northridge Drive, Wooster, OH 44691

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

Regina W. Myers
22 Jason Way, Fairmont, WV 26554

Richard McCauley
2589 Timothy Ave., Louisville, OH 44641

Richard Nunley
261 Festival Drive, Oceanside, CA 92057

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

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

Pg. 1 of 8

John David Wise
3 Cross Roads Road, Wana, WV 26590 ✓

Kathy A. Sine
343 Statler Run Road, Fairview, WV 26570 ✓

Linda Stapp
124 Reservoir Rd., St. Clairsville, OH 43950 ✓

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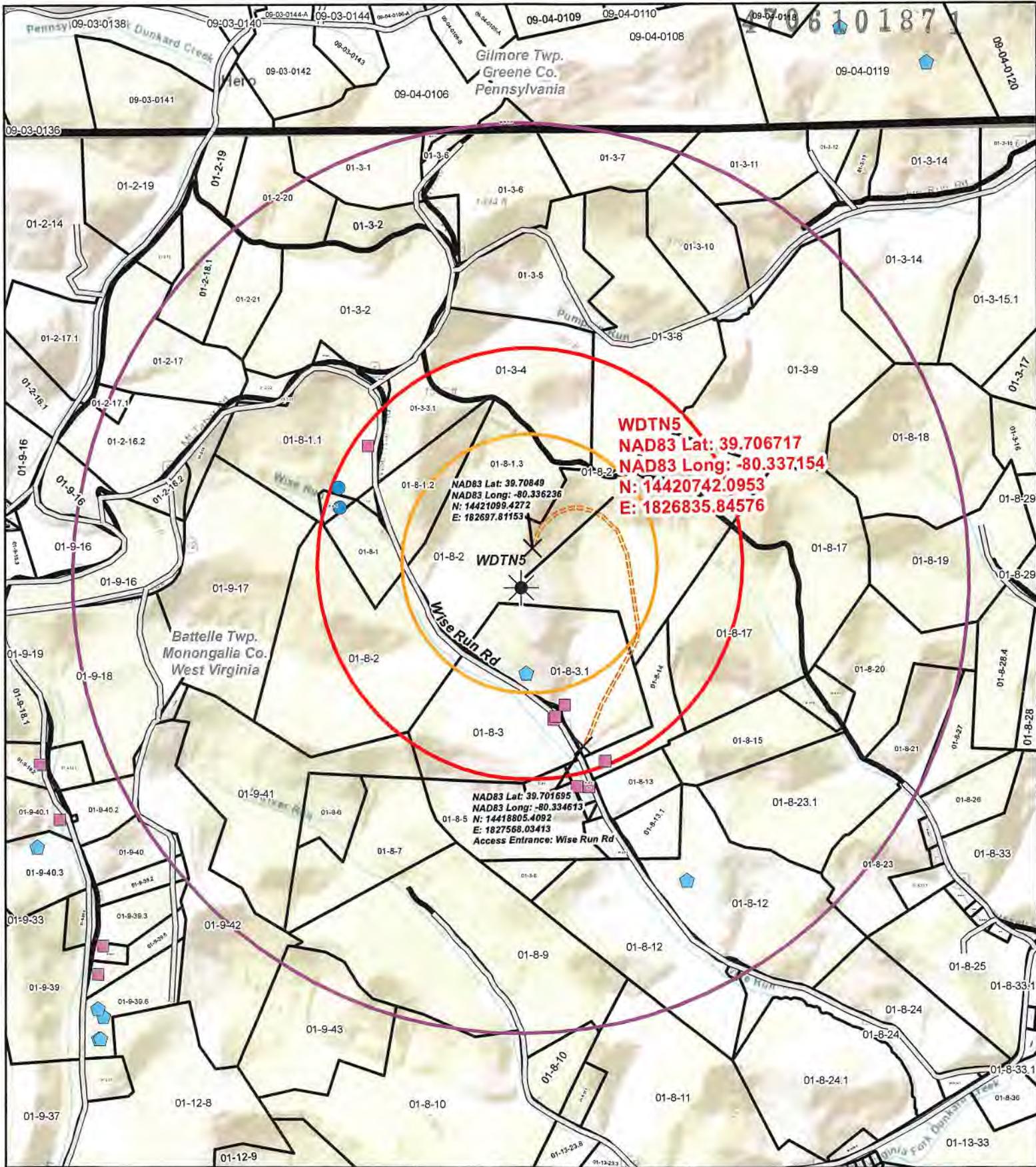
4706101871

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

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

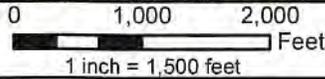
CNX RCPC LLC
1000 CONSOL Energy Drive, Canonsburg, PA 15317

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Legend

- Wellbore
- Pond
- Spring
- Water Well
- Access Points
- Access Road
- 1 Mile Buffer
- 2,500 Foot Buffer
- 1,500 Foot Buffer
- Surface Parcel



Original Date: 1/12/2021	Prepared By: GIS
Revision Date: 1/12/2021	Approved By: GIS
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WDTN5
Topo/Ground Water Map
04/29/2022

**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: 2/12/2021 **Date Permit Application Filed:** 2/15/2021

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>556816.641</u>
County:	<u>Monongalia</u>		Northing:	<u>4395424.622</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>Dunkark Creek</u>			

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: CNX Gas Company LLC
Address: 1000 CONSOL Energy Drive
Canonsburg, PA 15317
Telephone: 724-485-3244
Email: SarahWeigand@cnx.com
Facsimile: _____

Authorized Representative: Sarah Weigand
Address: 1000 CONSOL Energy Drive
Canonsburg, PA 15317
Telephone: 724-485-3244
Email: SarahWeigand@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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WW6A4 Notice of Application - Attachment

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

- ✓ Annette Stewart
41 Mimosa Dr., Martinsburg, WV 25404
- ✓ Benjamin Michael Wise
61 Carlton Dr. Eighty Four, PA 15330
- ✓ Brandon Sweeney
18501 Clagget Landing, Upper Marlboro, MD 20774
- ✓ Brianna Skyler Sweeney
18502 Clagget Landing, Upper Marlboro, MD 20774
- ✓ Bryan Kevin Goff
2911 Heather Ct. Chesapeake Beach, MD 20732
- ✓ Clifford J. Wise
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- ✓ CNX Gas Company LLC
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- ✓ Dawn Hughes
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- ✓ Dexter Murle Stewart
1283 Crossroads Road, Fairview, WV 26570
- ✓ Donald Nunley
36 Autumn Drive, Core, WV 26541
- ✓ Eleanor Wise
126 Fairview Ave., Waynesburg, PA 15370
- ✓ Evalee A. Everly
1325 Citrus Gardens Dr., Apt A, Orlando, FL 32807
- ✓ Frederick C. Wise
1 West Hills Drive, Fairmont, WV 26554
- ✓ Harold M. Jones
317 Crest Ave., Charleroi, PA 15022

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04/29/2022

4706101871

- ✓ James Freeman Stewart
1206 Marion Ave. Fairmont, WV 26554
- ✓ Jane Irons
P.O. Box 681, Tellico Plains, TN 37385
- ✓ Jesse D. Jones
308 1/2 Crest Ave., Charleroi, PA 15022
- / John Matthew Wise and Dina Wise
2255 East 6500 South, Price, UT 84501
- / Judy Eckman
630 Coniston Drive, Leland, NC 28451-9754
- / Justin P. Stewart
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- / Michelle Currence
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22 Jason Way, Fairmont, WV 26554
- / Richard McCauley
2589 Timothy Ave., Louisville, OH 44641
- / Richard Nunley
261 Festival Drive, Oceanside, CA 92057

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WV Department of
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4706101871

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

Terry Allen Wise
61 Carlton Dr. Eighty Four, PA 15330

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

Wally Currence
16200 Bealle Hill Road, Waldorf, MD 20601

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

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

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: 2/12/2021 Date Permit Application Filed: 2/15/2021

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: 556816.641
County: Monongalia Northing: 4395424.622
District: Battelle 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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: CNX Gas Company LLC Address: 1000 CONSOL Energy Drive
Telephone: 724-485-3244 Sarah Weigand Canonsburg, PA 15317
Email: SarahWeigand@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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WW6A5 Notice of Application - Attachment

WDTN5WHSM

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

Annette Stewart ✓

41 Mimosa Dr., Martinsburg, WV 25404

Benjamin Michael Wise ✓

61 Carlton Dr. Eighty Four, PA 15330

Brandon Sweeney ✓

18501 Clagget Landing, Upper Marlboro, MD 20774

Brianna Skyler Sweeney ✓

18502 Clagget Landing, Upper Marlboro, MD 20774

Bryan Kevin Goff

2911 Heather Ct. Chesapeake Beach, MD 20732 ✓

Clifford J. Wise

2394 County Road 137, Obrien, FL 32071 ✓

CNX Gas Company LLC

1000 Consol Energy Drive, Canonsburg, PA 15317 ✓

Dawn Hughes ✓

1134 Brooke Rd., Stafford, VA 22405 ✓

Dexter Murle Stewart

1283 Crossroads Road, Fairview, WV 26570 ✓

Donald Nunley ✓

36 Autumn Drive, Core, WV 26541 ✓

Eleanor Wise ✓

126 Fairview Ave., Waynesburg, PA 15370 ✓

EvaLee A. Everly

1325 Citrus Gardens Dr., Apt A, Orlando, FL 32807 ✓

Frederick C. Wise ✓

1 West Hills Drive, Fairmont, WV 26554 ✓

Harold M. Jones ✓

317 Crest Ave., Charleroi, PA 15022 ✓

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James Freeman Stewart
1206 Marion Ave. Fairmont, WV 26554

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

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

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

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

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

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

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

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

Michelle Currence
1 Carroll Drive, Stafford, VA 22554

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

Patricia Mumaw
3344 Northridge Drive, Wooster, OH 44691

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

Regina W. Myers
22 Jason Way, Fairmont, WV 26554

Richard McCauley
2589 Timothy Ave., Louisville, OH 44641

Richard Nunley
261 Festival Drive, Oceanside, CA 92057

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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

Byrd E. White, III
 Secretary of Transportation/
 Commissioner of Highways

January 20, 2021

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

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

Subject: DOH Permit for the WDTNS5 Pad, Monongalia County
 WDTN5WHSM Well Site

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Dear Mr. Martin,

WV Department of
 Environmental Protection

This well site will be accessed from a DOH permit #04-2017-0929 which has been issued to CNX Gas Company LLC, for access to the State Road for a well site located off Monongalia County Route 6 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

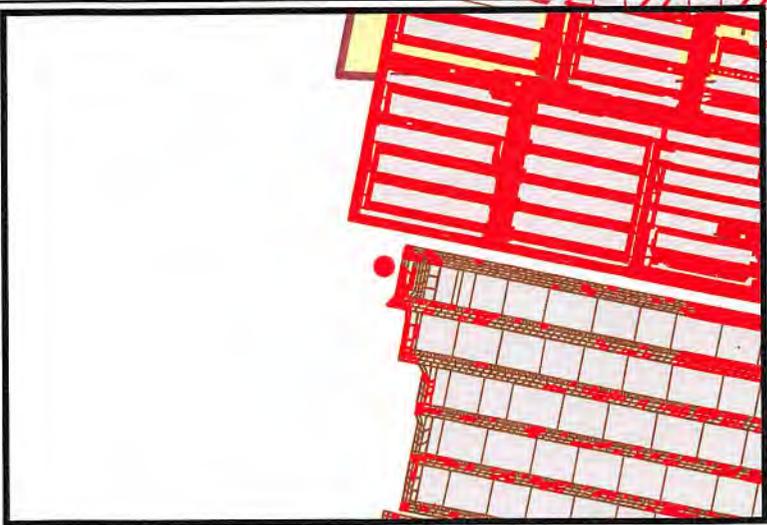
Very Truly Yours,

Gary K. Clayton, P.E.
 Regional Maintenance Engineer
 Central Office O&G Coordinator

Cc: Becky Zachwieja
 CNX Gas Company LLC
 CH, OM, D-4
 File

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

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**
Water	CNX	Carrier/Base Fluid	Water	7732-18-5	100.00%
Sand	HiCrush	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90%
HCL Acid (28%)	Multi-Chem	Acidizing	Hydrochloric Acid	7647-01-0	28.00%
ACI-250	CHEMSTREAM	Acid corrosion inhibitor	Methanol	67-56-1	45.00%
	CHEMSTREAM		Trade Secret	Proprietary	15.00%
	CHEMSTREAM		Ethylene glycol	107-21-1	20.00%
	CHEMSTREAM		N,N-Dimethylformamide	68-12-2	10.00%
	CHEMSTREAM		2-Butoxyethanol	111-76-2	5.00%
Citric Acid 50%	CHEMSTREAM	Iron Control Agent	citric acid	77-92-9	50.50%
CoilSTREAM VB 625	CHEMSTREAM	Gelling Agent	Heavy Aliphatic Naphtha	64742-96-7	60.00%
	CHEMSTREAM		Trade Secret	Proprietary	5.00%
	CHEMSTREAM		Trade Secret	Proprietary	3.00%
	CHEMSTREAM		Trade Secret	Proprietary	3.00%
	CHEMSTREAM		Guar Gum	9000-30-0	50.00%
StimSTREAM 9800	CHEMSTREAM	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00%
	CHEMSTREAM		Butene, homopolymer	9003-29-6	25.00%
	CHEMSTREAM		Ethoxylated alcohols	68213-23-0	3.00%
Clearal 268	CHEMSTREAM	Biocide	Glutaraldehyde	111-30-8	20.00%
	CHEMSTREAM		Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00%
	CHEMSTREAM		Didecyl dimethyl ammonium chloride	7173-51-5	3.00%
StimStream SC 398	CHEMSTREAM	Scale Inhibitor	Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00%
Ammonium Persulfate	CHEMSTREAM	Breaker	Ammonium Persulfate	7727-54-0	100.00%



Blacksville Mine

4706101871

WDTN5WHSM

1060 ft

458 ft

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Federal No. 2 Mine

- Legend**
- Well Location
 - Mine Workings
 - Remaining Coal

- Mined Out
- Active Permit



0 25 50 100 150 200 Feet	
Date: 1/20/2021	Prepared By: GIS
Revisions:	Approved By:
This map is property of CNX Resources Corp. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent.	

CNX

WDTN5WHSM
Mine Map
04/29/2022