



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, June 12, 2023
WELL WORK PERMIT
Horizontal 6A / New Drill

CNX GAS COMPANY LLC
1000 HORIZON VUE DR.

CANONSBURG, PA 15370

Re: Permit approval for WDTN5RHSM
47-061-01935-00-00

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: WDTN5RHSM
Farm Name: John M Wise, ET UX, ET AL
U.S. WELL NUMBER: 47-061-01935-00-00
Horizontal 6A New Drill
Date Issued: 6/12/2023

Promoting a healthy environment.

06/16/2023

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. 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. Also, 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.
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.

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

1) Well Operator: CNX GAS COMPANY LLC 494458046 Monongalia Batelle Wadestown
Operator ID County District Quadrangle

2) Operator's Well Number: WDTN5RHSM 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 x Oil Underground Storage
Other

(b) If Gas Shallow x Deep
Horizontal x

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 @ ~7925' TVD, 75' thick, expected formation pressure ~5230 psi

8) Proposed Total Vertical Depth: 8031' TVD at landing point (dependent upon formation dip)

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

10) Proposed Total Measured Depth: 23,197' MD at TD

11) Proposed Horizontal Leg Length: 13,418'

12) Approximate Fresh Water Strata Depths: Shallowest at 125', 399', 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' (zones may not have saltwater)

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 x

(a) If Yes, provide Mine Info: Name: RECEIVED Office of Oil and Gas
Depth: MAY 11 2023
Seam:
Owner: WV Department of Environmental Protection

Gayne Knitowski Digitally signed by Gayne Knitowski Date: 2023.05.04 09:18:58 -04'00'

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	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	36.0	3,084	3,055 ✓	1,025 / CTS
Production	5.5	New	P-110	23.0	23,226	23,197 ✓	4,614 / TOC @ 2,855
Tubing	2.375	New	J-55	4.7	Above assumes RF = 29'	TBD	N/A
Liners	N/A						

Gayne Knitowski
 Digitally signed by Gayne Knitowski
 Date: 2023.05.04 09:19:16 -04'00'

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	0.415	14,530	~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 ~12.5-13.0 ppg SOBMs. Drill 8-1/2" curve from KOP to landing point. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in Marcellus target window). Perform clean-up cycle to condition well. Run and cement 5-1/2" production casing. Suspend well and skid to next well or RDMO drilling rig. May utilize 2 rigs - top hole rig and horizontal rig to perform well operations.

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 ~100 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 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.

25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.

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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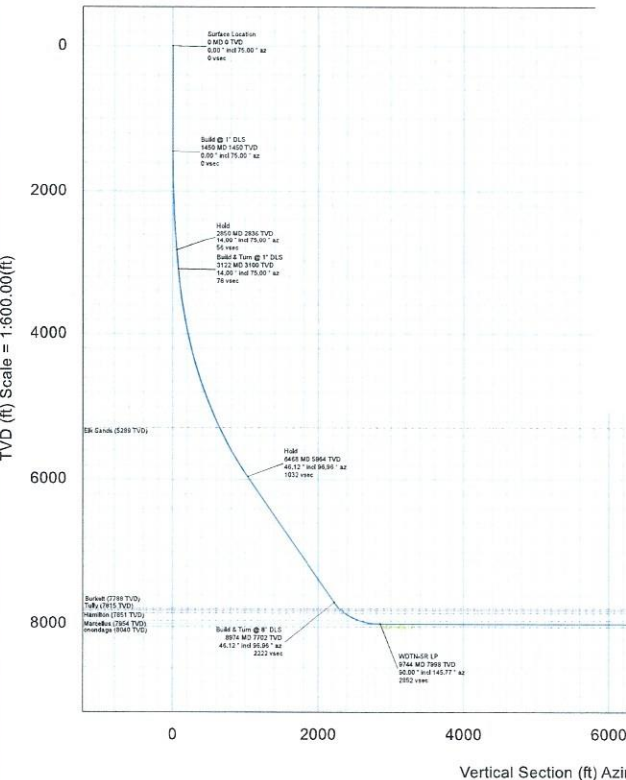
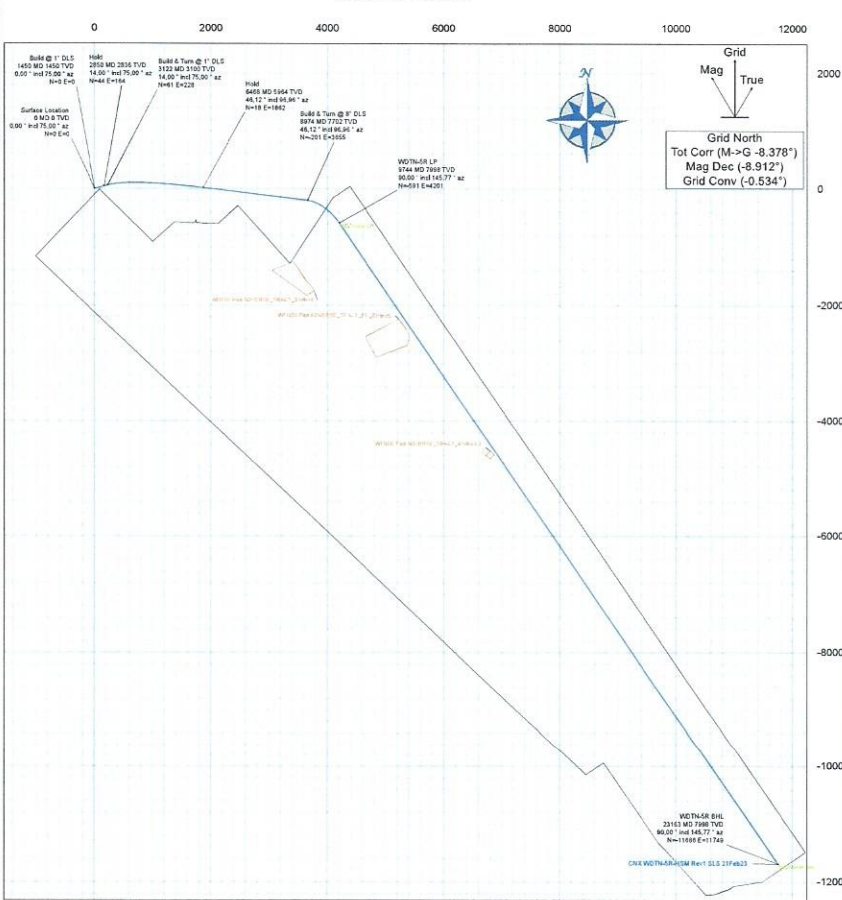
Borehole: Original Borehole	Well: WDTN-5R-HSM	Field: WV Monongalia County (NAD 27)	Structure: CNX WDTN-5 Pad
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Gravity & Magnetic Parameters Model: HDGM 2023 MagDec: -8.912°	Dip: 66.352° FS: 51761.48mT	Date: 21-Feb-2023 Gravity FS: 999.331mgN (9.80665 Based)	Surface Location NAD27 West Virginia State Plane, Northern Zone, US Feet Lat: N 39 42 24.94 Lon: W 80 20 14.83	Miscellaneous Slot: WDTN-5R-HSM Plan: CNX WDTN-5R-HSM Rev1 SLS 21Feb23	Well Data TVD Ref: RKB (1419,000 ft above MSL)
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Borehole Location		Grid Coord		Local Coord	
Northing	Easting	Latitude	Longitude	Easting	Northing
44488.042	176438.045	N 39 42 24.94	W 80 20 14.83	176438.045	44488.042

Part	Seq	Survey Tool	Vendor/Tool	Vendor/Tool	Wdg Size (in)	Wdg Size (in)	Expected Max Incl (°)	MD From (ft)	MD To (ft)	Survey Frequency (Hz)	EDU Size (ft)	EDU Size (ft)	Comment/Contingency
1	1	AD550a_DRPQRS			17.5	17.5	0	1350	1900.00	1900.00	5.237	5.216	
1	2	A001M_WVD			12.25	12.25		1350	3000	1900.00	8.719	7.875	
1	3	A001M_WVD			8.75	8.75		3000	6000	1900.00	32.200	15.082	
1	4	B001M_WVD-HRFP			8.5	8.5		6000	22142.864	1900.00	347.833	44.991	

Critical Point	MD	INCL	AZIM	TVD	VSEC	NrYrth	ErsWth	DLS
Surface Location	0.00	0.00	75.00	0.00	0.00	0.00	0.00	0.00
Build @ 1° DLS	1450.00	0.00	75.00	1450.00	0.00	0.00	0.00	0.00
Build @ Turn @ 1° DLS	3121.87	14.00	75.00	2936.11	56.65	44.85	184.39	1.00
Build @ Turn @ 1° DLS	5302.46	37.21	94.52	5289.00	645.44	74.45	1264.47	1.00
Build @ Turn @ 1° DLS	9407.31	48.12	94.96	8944.50	1932.34	16.42	1882.29	1.00
Build @ Turn @ 1° DLS	11952.58	48.12	94.96	7781.69	2221.36	-209.58	3685.21	0.00
Build @ Turn @ 1° DLS	14508.35	52.18	108.38	7788.00	2294.79	-222.81	3752.01	0.00
Build @ Turn @ 1° DLS	19103.57	54.50	111.85	7819.00	2324.28	-235.30	3786.06	0.00
Build @ Turn @ 1° DLS	23142.86	57.88	118.47	7831.00	2370.11	-237.38	3835.14	0.00
Build @ Turn @ 1° DLS	27142.86	72.24	131.26	7954.00	2575.00	-281.43	4017.02	0.00
Build @ Turn @ 1° DLS	31142.86	90.00	145.77	7988.00	2652.31	-281.34	4201.47	0.00
Build @ Turn @ 1° DLS	35142.86	90.00	145.77	7988.00	16270.86	-1185.80	11748.35	0.00
Build @ Turn @ 1° DLS	39142.86	N/A	N/A	8040.00				



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Vertical Section (ft) Azim = 145.77° Scale = 1:600.00(ft) Origin = 0N/-S, 0E/-W

CONTROLLED	
Plan ref	CNX WDTN-5R-HSM Rev1 SLS 21Feb23
Drawing ref	
Copy number	of 3
Date	23-Feb-2023
Drawn By	S. Shannon
Copy Number	10

06/16/2023

**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 WFN12 Wells & NV113 Wells (API's TBD))
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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 fro spud/surface to curve kick-off point (KOP), Horizontal: synthetic oil-based mud (SOBM) from curve KOP to lateral TD

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

Additives to be used in drilling medium? Bactericide, Polymers, and weighting agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed offsite

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

-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 Permitting Services

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Commonwealth of Pennsylvania, County of Washington

WV Department of
Environmental Protection

Subscribed and sworn before me this 4th day of May, 20 23

Rebecca Zachwieja

Notary Public **Commonwealth of Pennsylvania - Notary Seal
Rebecca Zachwieja, Notary Public
Washington County
My commission expires November 7, 2023
Commission number 1269683
Member, Pennsylvania Association of Notaries**

My commission expires November 7, 2023

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Disposal List

Type of Waste	Disposal Company Name	Disposal Location	Disposal Location Co. Well ID / Name	Permit # (if applicable)	Accepted Waste Streams	Disposal Company Contact Information
Non-Haz Disposal	Apex Sanitary Landfill (Apex Environmental)**	11 County Road 78 Amsterdam, Ohio 43993	N/A	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
Brine Injection - Treatment	Appalachian Water Services (Nuverra Environmental Solutions)	2326 McClellandtown Road, Masontown, PA 15461	39.853056, -79.924786	WMGR GP No. 1353W001 WQM Industrial Waste Permit No.: 2608201 A-2	Brine (Produced Water) and oily water from compressor stations.	Rob Beslko 304-231-0983 Office 304-282-8814 Cell rob.beslko@nuverra.com Office: 740-609-3800
Brine Injection - Treatment	Austin Master Services	801 N 1st St, Martins Ferry, OH 43935	40.105200, - 80.711650	N/A	Brine (Produced Water)	Jack Bement CEO Austin Master Services LLC 355 Circle of Progress Pottstown PA, 19464 Ph: (585) 704-2744 Fax: 484 624-5506 Office: 740-609-3800
RW & TENORM	Austin Master Services	801 N 1st St, Martins Ferry, OH 43935	40.105200, - 80.711650	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.	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 Caddis New Athens rd, Cadiz, OH 43907	40.233830, - 81.003300	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 Winsap 330-692-0423; dbrown@apexlf.com
Brine Injection - Treatment	Cambrian Well Services - Kemble (Or Petroleum Corporation)	Zanesville, Muskingum County, Perry Township, OH	39.974954, -81.845389	34-119-2, 8780	Brine (Produced Water)	Bob Orr 740-796-6495 614-648-8898 corpetro@gmail.com
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.087460, - 82.047918	VAS2D9608BUC	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	VAS2D9308BUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.184198, - 82.082649	VAS2D9268BUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Russell County, VA	37.130547, - 81.951222	VAS2D9708RUS	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.147954, - 82.075320	VAS2D9218BUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Warren Township, OH	39.426278, - 81.502379	API # 34-167-2-9543-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockdis.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	API # 34-167-2-9464-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockdis.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	39.429867, - 81.511020	API # 34-167-2-9445-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockdis.com DeepRock Disposal Solutions LLC Office: 740.371.5078 ext. 206 Cell: 304.588.0936

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Disposal List

Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Marietta Township, OH	39.402842, -81.476913	Order No. 2019-79; American Growers No. 1 Well, SWIW No. 25	API # 34-167-2-9766-00-00	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.	Wes Messor General Manager wesm@deprockids.com DeepRock Disposal Solutions LLC Office: 740.371.5078 ext. 206 Cell: 304.588.0936
RW & TENORM	Empire Fluid Solutions (Formerly Troo Clean)	41540 National Road Belmont, OH 43718	40.0687, -81.04963	N/A	N/A	Brine (Produced Water)	Orin David Orin.david@trooclean.com 918-413-6426
Brine Injection - Treatment	Environmental Energy Services LLC (Force, Inc.)	Muskingum County, Perry Township, OH	39.975643, -81.825727	Patison 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	Buckeye UIC Barnsville (SWIW #2)	34-013-2-0609 UIC #609	Frac water, brine, produced water	Bryan Force Mobile: 412.289.0069 bforce@forceincorporated.com
RW & TENORM	Fluid Management Solutions (FMS)	5445 US-40 East, Triadelphia, WV 26059	40.06886, -80.61492	N/A	N/A	Cement Water, Oil Base, Drill Mud, Water Base, Cellar Clean Outs ex. Also they do washouts and they have storage capacity at 2000bbl for 10lb brine and 10.5lb brine.	Kevin Flaherty (412)973-2586 Zachery Reed zachery4@phoo.com PO Box 555, Rosedale, VA 24280 Phone: (276) 880-2323
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.	Gary Carpenter 267-246-6176 JRBGCarpenter@aol.com Office: (330) 270-9900
Brine Injection - Treatment	Greene County Water Treatment, Inc.	401 Jefferson Rd. Waynesburg, PA 15370	39.908611, -80.141111	Waynesburg Facility	WMGR1235W010	Oil and Gas Fluids with minimal oil and solids present	Larry Chamberlain 330-398-5919 lchamberlain@wcinc.com
RW & TENORM	Ground Tech LLC	240 Sinter Court, Youngstown, OH 44510	41.113160, -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.	Ashley Cromley 570-394-4450 Ashley.cromley@hydrorecoverylp.com
Brine Injection - Treatment	Hydro Recovery	572 Route 18 Burgettstown, PA 15021	40.422874, -80.426125	Burgettstown Facility	WMGR1235W019	Oil and Gas Fluids with minimal oil and solids present	Terry Gadd terry.gadd@jpmascaro.com, 610-636-4133
Non-Haz Disposal	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	Paul Williams 740-995-0684 mudmasterspw@gmail.com
RW & TENORM	Mud Masters LLC	64054 Wintersgreen Rd Lore City, OH 43125	40.027531, -81.489219	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).	John Twiddy john.t@mxinc.com 276-628-6636 ext. 202; 276-608-0003 Cell
Non-Haz Disposal	MM Environmental Services LLC	2619 Old Trail Road Abingdon, VA 24210	N/A	N/A	N/A	Spencer to complete	Customer Service: (724) 929-7694
Non-Haz Disposal	Noble Environmental Landfill (Former Westmoreland Waste)	111 Conner Lane, Belle Vernon, PA 15012	N/A	Noble / Westmoreland Sanitary Landfill	N/A	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	Bob Orr: 614-648-8898
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.	

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Disposal List

Oil & 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
Non-Haz Disposal	Republic Services - Carbon-Limestone**	8100 S State Line Rd, Lowellville, OH 44436	N/A	Carbon-Limestone 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, Process Waste, Solidification Services, Municipal Solid Waste **Ohio "TENORM" - requires Radium 226/228 analysis by lead 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.	Jack Palermo - jpalermo@republicservices.com, 330-536-7575
Non-Haz Disposal	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, 536-7575
Non-Haz Disposal	Republic Services - Short Creek	North Fork Short Creek Road, Wheeling, WV 26003	N/A	Short Creek 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, Process Waste, Municipal Solid Waste	Jack Palermo - jpalermo@republicservices.com, 330-536-7575
Brine Injection - Treatment	Reserved Environmental Services (RES)	1119 Old Route 119 South Mt. Pleasant, PA 15666	40.215555 - 79.606388	New Stanton Facility	WMGR1235W005	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	WMGR1235W031	Oil and Gas Fluids with minimal oil and solids present	Matt Kicinski 814-574-9701 mkicinski@reswater.com
Hazardous Waste Disposal	Safety Kleen	10 Industrial Park Drive, Wheeling, WV 26003	N/A	Wheeling Landfill	N/A	RCRA/TSCA Waste, PCB Transformers & Capacitors, PCB Soil/Debris, Non-Hazardous Wastes, Asbestos Waste, Solidification Services	Gordon Cooper gordon.cooper@safety-kleen.com 304-215-2284
Oil & Oily Water Treat - Recycle	Spirit Services, Inc.	173 Industrial Park Ln., Beech Bottom, WV 26030	N/A	Wheeling Landfill	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.	Joe Staton: 717-360-7916 Office: 301-223-1251 Fax: 301-223-1253 jstaton@spiritservices.com
Oil & Oily Water Treat - Recycle	Valcor Environmental Services, LLC	515 W. 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 Turuncu gturuncu@valcor.com 304-963-1563 Steve Atkinson SATkinson@valcor.com
Non-Haz Disposal	Waste Management - American Landfill	7916 Chapel St SE, Waynesburg, OH 44688	N/A	American 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, Friable Asbestos, Non-Friable Asbestos, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C: 330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - Arden Landfill	200 Ringos Ln, Washington, PA 15901	N/A	Arden 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, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C: 330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - Chestnut Ridge	385 Harr Ln, Blountville, TN 37617	N/A	Evergreen Landfill	N/A	Spencer to complete	Travis Maryanski tmaryanski@wm.com (865) 388-7279 Cell (205) 652-8137 Tech Service
Non-Haz Disposal	Waste Management - Evergreen Landfill	1310 Luciusboro Rd, Blountville, PA 15717	N/A	Evergreen 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, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C: 330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - Kelly Run	1500 Hayden Blvd, Elizabeth, PA 15037	N/A	Kelly Run 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, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C: 330-204-4244, TFarnsw@wm.com

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Disposal List

Non-Haz Disposal	Waste Management - Mahoning Landfill	3510 E Garfield Rd, New Springfield, OH 44443	N/A	Mahoning Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum) Construction & Demolition Waste, Industrial Waste, Non-Friable Asbestos, Process Waste, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C-330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - Meadowfill Landfill	1488 Dawson Dr, Bridgeport, WV 26330	N/A	Meadowfill 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, Friable Asbestos, Non-Friable Asbestos, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C-330-204-4244, TFarnsw@wm.com
Hazardous Waste Disposal	Waste Management - Model City	1550 Balmer Rd, Youngstown, NY 14174	N/A	Model City Landfill	N/A	RCRA/TSCA Waste, PCB Transformers & Capacitors, PCB Soil/Debris, Non-Hazardous Wastes, Asbestos Waste, Solidification Services	Linda Davis: 716-286-0365 or 716-754-8231 or 800-963-4776
Non-Haz Disposal	Waste Management - Northwestern Landfill	510 Dry Run Rd, Parkersburg, WV 26104	N/A	Northwestern 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, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C-330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - S&S Grading Landfill	4439 Good Hope Pike, Clarksburg, WV 26301	N/A	S&S Grading 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, Process Waste, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C-330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - South Hills (Arnon)	3100 Hill Rd, South Park Township, PA 15129	N/A	South Hills Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C-330-204-4244, TFarnsw@wm.com
Non-Haz Disposal	Waste Management - Valley Landfill	6015 Pleasant Valley Rd, Irwin, PA 15442	N/A	Valley 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, Friable Asbestos, Non-Friable Asbestos, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C-330-204-4244, TFarnsw@wm.com
Recycling	Ultra-Poly Corporation	102 Deml Bld, PO Box 330, Portland, PA 18351	N/A	N/A	N/A	HDPE Liner, HDPE Pipe	Joe Barcelona jbarcelona@ultra-poly.com 412-495-5962
Non-Haz Disposal	Lusk Disposal	1121 Frontage rd, Princeton, WV 24740				oil filters, suction filters, oil soaks, glycol filters, fuel filters, coalescent filters, scrap poly pipe, oily gravel, oily soil, office trash, scrap pipe, plastic cans, aerosol cans, wooden pallets, cardboard, solidified glycol, other acceptable waste streams	(304) 425-9338
Non-Haz Disposal	Pinnacle Container Services	1494 US-11 W, Bristol, TN 37630				oily rags, filters, glycol, glycol filters, oil filters, oil soaks, oily gravel, oily soil, glycol water, slop water, used glycol, other acceptable waste streams	Aaron Blankenship, aaron.blankenship@pinnaclecontainer.net, (423) 573-7277
Non-Haz Disposal	Special T Metals	1701 Morrell Ave, Connelisville, PA 15425				scrap metal	Darryl Husenits, dmhusenits@gmail.com; (724) 562-8194; (724) 628-2274

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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
Orchard Grass	25
Birdsfoot Trefoil	15
Ladino Clover	10

Seed Type	lbs/acre
Orchard Grass	25
Birdsfot Trefoil	15
Ladino Clover	10

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Gayne Knitowski
Digitally signed by Gayne Knitowski
Date: 2023.05.04 09:22:00 -0400

Comments: _____

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Title: Inspector Date: 05/03/2023

Field Reviewed? () Yes () No

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WDTN5_M3 Pad Frac - SOG Review

All known shallow oil and gas (SOG) wells have been identified within a 1000’ radius of the portion of the WDTN5_M3 pad. Any Shallow O&G well within the Area of Review (AOR) has been reviewed and is provided in a list below (Figure 1) that includes API, Well Name, Current Operator (from Enverus), Fluid Type, Profile Type, Completion Formation, Current Status, Total Depth, State, County, Latitude, and Longitude, if available.

The Marcellus Shale of the Wadestown area is found at an approximate True Vertical Depth (TVD) of 8050’. 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 upwards. Fortunately, 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.

CNX plans to monitor all CNX-owned Marcellus wells that lie within 1,000’ of the WDTN5_M3 laterals and utilize the Production Control Room (PCR) to set up alarms via CygNet for any abrupt casing pressure or water rate changes. Those variances are outlined below. If the CNX PCR receives an alarm, the process is to notify the production foreman and production engineer responsible for the pad so that they can analyze if a frac hit is imminent, or if the alarm is of little to no concern. Should a communication event occur that triggers PA DEP notification requirements, CNX will follow the technical guidance provided in *Guidelines for Implementing Area of Review (AOR) Regulatory Requirement for Unconventional Wells* (800-0810-001) regarding Incident Reporting and Resolution.

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- 20% positive or negative rate of change for hourly water log period
- 10% positive or negative rate of change for casing pressure over a period of 30 minutes

Seven (7) CNX-owned Marcellus laterals lie within 1000’ of the WDTN5_M3 laterals and are drilled into the zone of influence, which is 1500’ vertical feet from the Marcellus.

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Well Name/API	Formation	Operator	Orientation	Within Zone of Influence	TVD Depth (ft)
WDTN5GHSM (4706101823)	Marcellus Shale	CNX	Horizontal	Yes	8070
WDTN5HHSM (4706101824)	Marcellus Shale	CNX	Horizontal	Yes	8075
WDTN5IHSM (4706101793)	Marcellus Shale	CNX	Horizontal	Yes	8083
WDTN5NHSM (4706101826)	Marcellus Shale	CNX	Horizontal	Yes	8141



WDTN5_M3 Pad Risk Assessment Review

Thursday, April 20, 2023

WDTN5WHSM (4706101871)	Marcellus Shale	CNX	Horizontal	Yes	8044
WDTN5XHSM (4706101872)	Marcellus Shale	CNX	Horizontal	Yes	8073
WDTN5ZHSM (4706101873)	Marcellus Shale	CNX	Horizontal	Yes	8075

No active third party Marcellus well lies within 1,000' and enters the Zone of Influence of the proposed WDTN5_M3

Well Name/API	Formation	Operator	Orientation	Within Zone of Influence	TVD Depth (ft)

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Figure 1. Forty-eight shallow oil and gas wells lie within a 1000' buffer around the WDTN5_M3 pad but do not enter the Zone of Influence (1500' above the Marcellus Shale in this case). Fifteen are Plugged and Abandoned and thirty are considered inactive, many of which are CBM wells. The deepest known shallow well is 3773' and produced from the Bayard Sand and shallower stratigraphy.

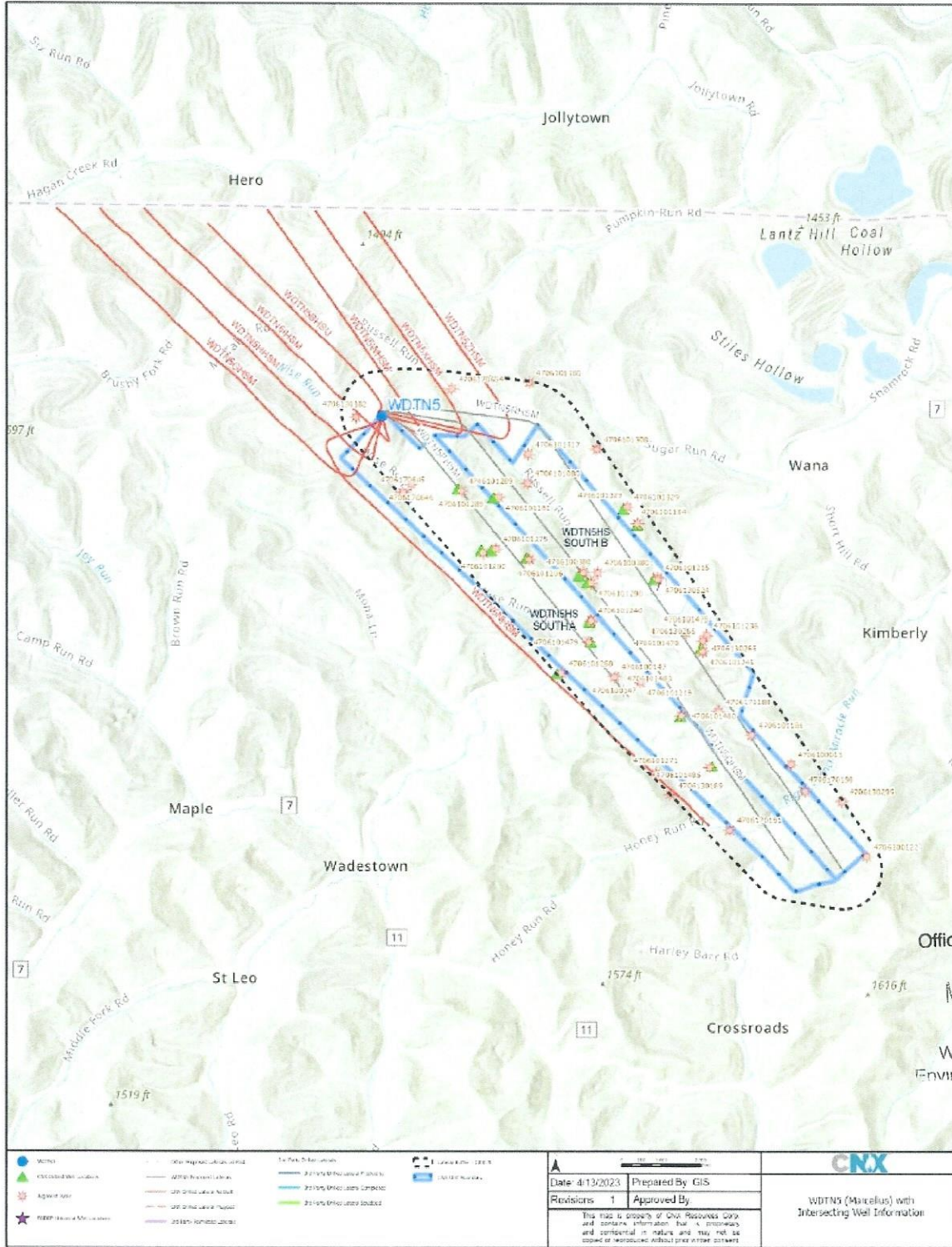
API Number	Well Name	Current Operator	Fluid Typ	Profile Typ	Completion Formation	Current Status	Total Dep	Province Stat	County	Latitude - WGS	Longitude - WGS
4706101480000	LEEGAN, BRENT W	CONSOL	GAS	V	GREENLAND GAP FM	INACTIVE	3773	WEST VIRGINIA	MONONGALIA (WV)	39.686063	-80.309856
47061012750000	CNGP	CONSOL	GAS	V	FOURTH	INACTIVE	3700	WEST VIRGINIA	MONONGALIA (WV)	39.697528	-80.326747
47061012890000	WILSON, MABEL&HOSTUTLER, BR	CONSOL	GAS	V	BAYARD	INACTIVE	3655	WEST VIRGINIA	MONONGALIA (WV)	39.701592	-80.329937
47061012890001	WILSON, MABEL&HOSTUTLER, BR	CONSOL	GAS	V	BAYARD	INACTIVE	3655	WEST VIRGINIA	MONONGALIA (WV)	39.701592	-80.329937
47061014850000	LEEGAN, BRENT W	CONSOL	GAS	V	BAYARD	INACTIVE	3620	WEST VIRGINIA	MONONGALIA (WV)	39.692433	-80.307229
47061013290000	WEVW	CONSOL	GAS	V	FIFTH	INACTIVE	3588	WEST VIRGINIA	MONONGALIA (WV)	39.700577	-80.314923
47061013290001	WEVW	CONSOL	GAS	V	FIFTH	INACTIVE	3588	WEST VIRGINIA	MONONGALIA (WV)	39.700577	-80.314923
47061012200000	FOX, ELIAS	MONONGALIA OIL & GAS CO	DRY HOLE	V	FIFTH	P & A	3560	WEST VIRGINIA	MONONGALIA (WV)	39.676192	-80.292966
47061012900000	WEVW	CONSOL	GAS	V	BAYARD	INACTIVE	3450	WEST VIRGINIA	MONONGALIA (WV)	39.695206	-80.318115
47061014790000	SHRIVER, HOWARD A	CONSOL	GAS	V	BAYARD	INACTIVE	3429	WEST VIRGINIA	MONONGALIA (WV)	39.691142	-80.318302
47061001470000	CNG	EASTERN ASSOCIATED COAL/PEABODY COAL CO	DRY HOLE	V	BAYARD	P & A	3400	WEST VIRGINIA	MONONGALIA (WV)	39.688741	-80.315943
47061014700001	CNG	EASTERN ASSOCIATED COAL/PEABODY COAL CO	DRY HOLE	V	BAYARD	P & A	3400	WEST VIRGINIA	MONONGALIA (WV)	39.688741	-80.315943
47061011860000	H. HAUGHT	EASTERN ASSOCIATED COAL/PEABODY COAL CO	GAS	V	GORDON STRAY	P & A	3340	WEST VIRGINIA	MONONGALIA (WV)	39.684756	-80.303475
47061014780000	STATLER, JOHN R	CONSOL	GAS	V	BAYARD	P & A	3334	WEST VIRGINIA	MONONGALIA (WV)	39.691868	-80.309481
47061014780001	STATLER, JOHN R	CONSOL	GAS	V	BAYARD	P & A	3334	WEST VIRGINIA	MONONGALIA (WV)	39.691868	-80.309481
47061003800000	SHRIVER, HOWARD	EASTERN ASSOCIATED COAL/PEABODY COAL CO	GAS	V	POTTSVILLE SS (UNDF)	P & A	3075	WEST VIRGINIA	MONONGALIA (WV)	39.695932	-80.317552
47061003800001	SHRIVER, HOWARD	EASTERN ASSOCIATED COAL/PEABODY COAL CO	GAS	V	POTTSVILLE SS (UNDF)	P & A	3075	WEST VIRGINIA	MONONGALIA (WV)	39.695932	-80.317552
47061003800002	SHRIVER, HOWARD	EASTERN ASSOCIATED COAL/PEABODY COAL CO	GAS	V	POTTSVILLE SS (UNDF)	P & A	3075	WEST VIRGINIA	MONONGALIA (WV)	39.695932	-80.317552
47061012060000	CNGP	CONSOL	CBM	V	REDSTONE COAL	INACTIVE	1028	WEST VIRGINIA	MONONGALIA (WV)	39.690661	-80.327945
47061012450000	CNGP	CONSOL	CBM	V	PITTSBURGH COAL	INACTIVE	1009	WEST VIRGINIA	MONONGALIA (WV)	39.693415	-80.313984
47061011840000	WEVW	CONSOL	CBM	V	PITTSBURGH COAL	INACTIVE	970	WEST VIRGINIA	MONONGALIA (WV)	39.697238	-80.326783
47061012000000	CNGP	CONSOL	CBM	V	REDSTONE COAL	INACTIVE	940	WEST VIRGINIA	MONONGALIA (WV)	39.701157	-80.326559
47061011810000	CNGP	CONSOL	CBM	V	PITTSBURGH COAL	INACTIVE	860	WEST VIRGINIA	MONONGALIA (WV)	39.692594	-80.318115
47061012400000	CNGP	CONSOL	CBM	V	PITTSBURGH COAL	INACTIVE	837	WEST VIRGINIA	MONONGALIA (WV)	39.695932	-80.318865
47061012080000	CNGP	CONSOL	CBM	V	REDSTONE COAL	INACTIVE	837	WEST VIRGINIA	MONONGALIA (WV)	39.695932	-80.318865
47061012150000	CNGP	CONSOL	CBM	V	PITTSBURGH COAL	INACTIVE	750	WEST VIRGINIA	MONONGALIA (WV)	39.695642	-80.312109
47061000130000	HAUGHT, HENRY	DOMINION ENERGY	UNKNOWN	V		P & A		WEST VIRGINIA	MONONGALIA (WV)	39.682723	-80.29991
47061010800000	HOSTETTLER, BONNIE	EASTERN ASSOCIATED COAL/PEABODY COAL CO	UNKNOWN	V		P & A		WEST VIRGINIA	MONONGALIA (WV)	39.702173	-80.323531
47061012190000	E. HELMICK	EASTERN ASSOCIATED COAL/PEABODY COAL CO	UNKNOWN	V		P & A		WEST VIRGINIA	MONONGALIA (WV)	39.688385	-80.313611
47061012360000	P	EASTERN ASSOCIATED COAL/PEABODY COAL CO	UNKNOWN	V		P & A		WEST VIRGINIA	MONONGALIA (WV)	39.691689	-80.307631
47061012680000	WEVVO	CONSOL	GAS	V		INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.688955	-80.320742
47061012710000	MCKENY, MARY A	EASTERN ASSOCIATED COAL/PEABODY COAL CO	UNKNOWN	V		P & A		WEST VIRGINIA	MONONGALIA (WV)	39.681959	-80.312109
47061013890000	WEVVO	CONSOL	GAS	V		EXPIRED PERMIT		WEST VIRGINIA	MONONGALIA (WV)	39.704588	-80.317724
47061013170000	WEVW	CNG PRODUCING	UNKNOWN	V		P & A		WEST VIRGINIA	MONONGALIA (WV)	39.704205	-80.323931
47061013800000	BERRY, CHARLES L - HEIRS	CONSOL	UNKNOWN	V		EXPIRED PERMIT		WEST VIRGINIA	MONONGALIA (WV)	39.709216	-80.32388
47061014830000	EASTERN ASSOCIATED COAL	CONSOL	UNKNOWN	V		EXPIRED PERMIT		WEST VIRGINIA	MONONGALIA (WV)	39.687804	-80.315112
47061301690000	LEWIS BARR 2	BP	UNKNOWN	U		INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.6804135	-80.3107924
47061301820000			GAS	U	BAYARD	INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.706674	-80.339514
47061302650000	L C SHRIVER	BP	GAS	U	FIFTH	INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.691303	-80.307981
47061302650001	L C SHRIVER	BP	GAS	U	FIFTH	INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.691303	-80.307981
47061302950000	ELIAS FOX	MONONGAHELA WEST PENN PUBLIC SERVICE CO	UNKNOWN	U		INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.695008	-80.312111
47061305240000	J H HAGAN	BP	OIL & GAS	U	BAYARD	INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.686373	-80.306478
47061701880000	SHRIVER-HAUGHT	BP	UNKNOWN	U		INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.680717	-80.298596
47061701900000	ZADOC WISE	BATTELLE OIL CO	UNKNOWN	U		INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.677962	-80.305351
47061701910000	LEWIS FOX	PHILADELPHIA COMPANY, THE	UNKNOWN	U		INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.701448	-80.335196
47061706450000	CAL WISE	PHILADELPHIA OIL CO	UNKNOWN	U		INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.702228	-80.334446
47061706460000	HENRY SHRIVER	(N/A)	UNKNOWN	U		INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.702228	-80.334446
47061706540000	M M WISE	MANUFACTURERS LIGHT & HEAT CO	UNKNOWN	U		INACTIVE		WEST VIRGINIA	MONONGALIA (WV)	39.708715	-80.330876

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Figure 2. Forty-eight shallow oil and gas wells lie within a 1000' buffer around the WDTN5_M3 pad but do not enter the Zone of Influence (1500' above the Marcellus Shale in this case). Fifteen are Plugged and Abandoned and thirty are considered inactive, many of which are CBM wells. The deepest known shallow well is 3773' and produced from the Bayard Sand and shallower stratigraphy.



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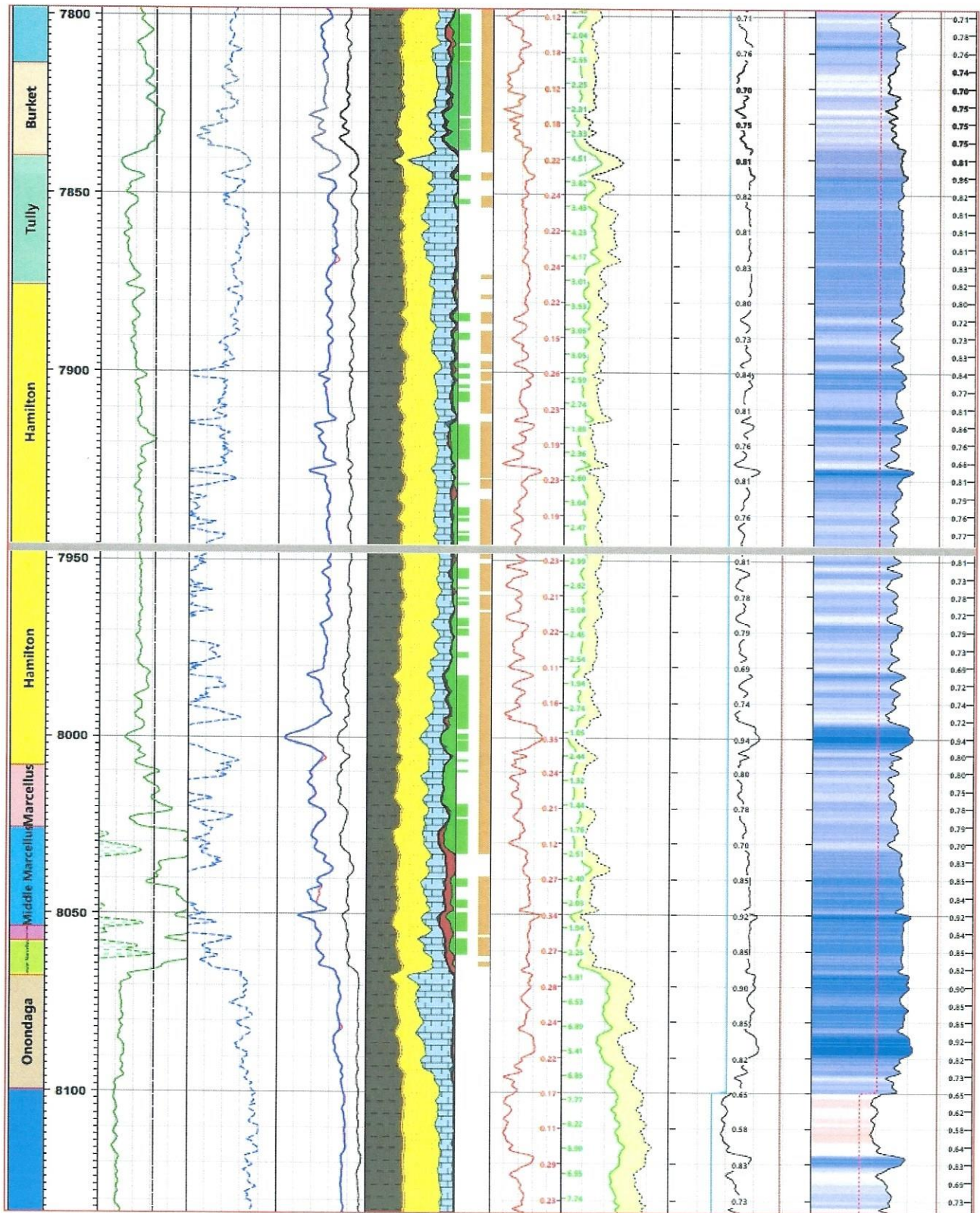
WDTN5_M3 Pad Risk Assessment Review

Thursday, April 20, 2023

WV Department of

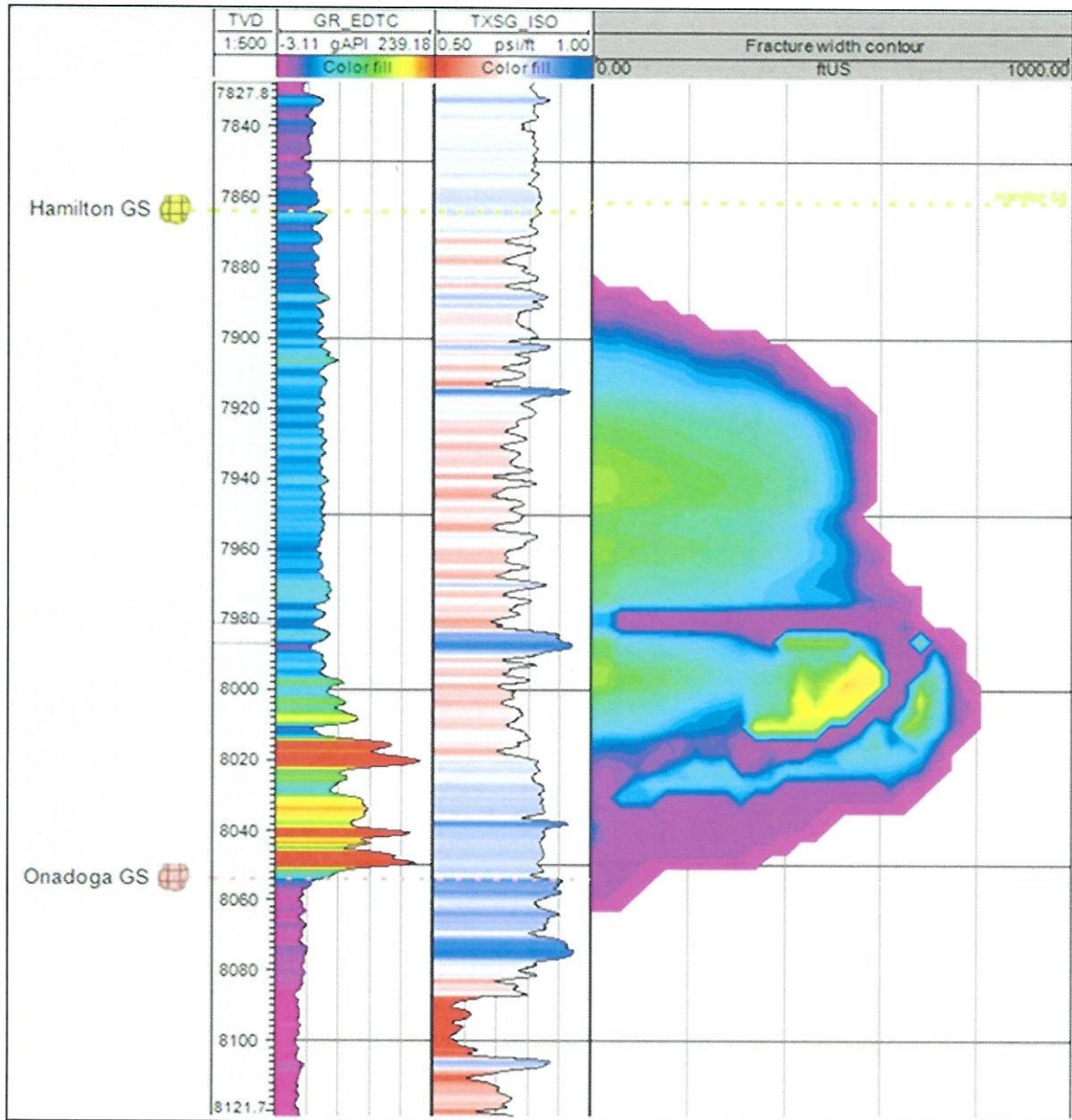
Environmental Protection

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



06/16/2023

Figure 4. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is for this area, which yields a frac height of approximately 200'.



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**Site Safety Plan for Well WDTN5RHSM
CNX Gas Company, LLC.**



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Approval Sheet

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

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

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

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

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

And

West Virginia Oil and Gas Conservation Commission.

Approved this day _____ of month _____, 20__ by

Gayne Knitowski

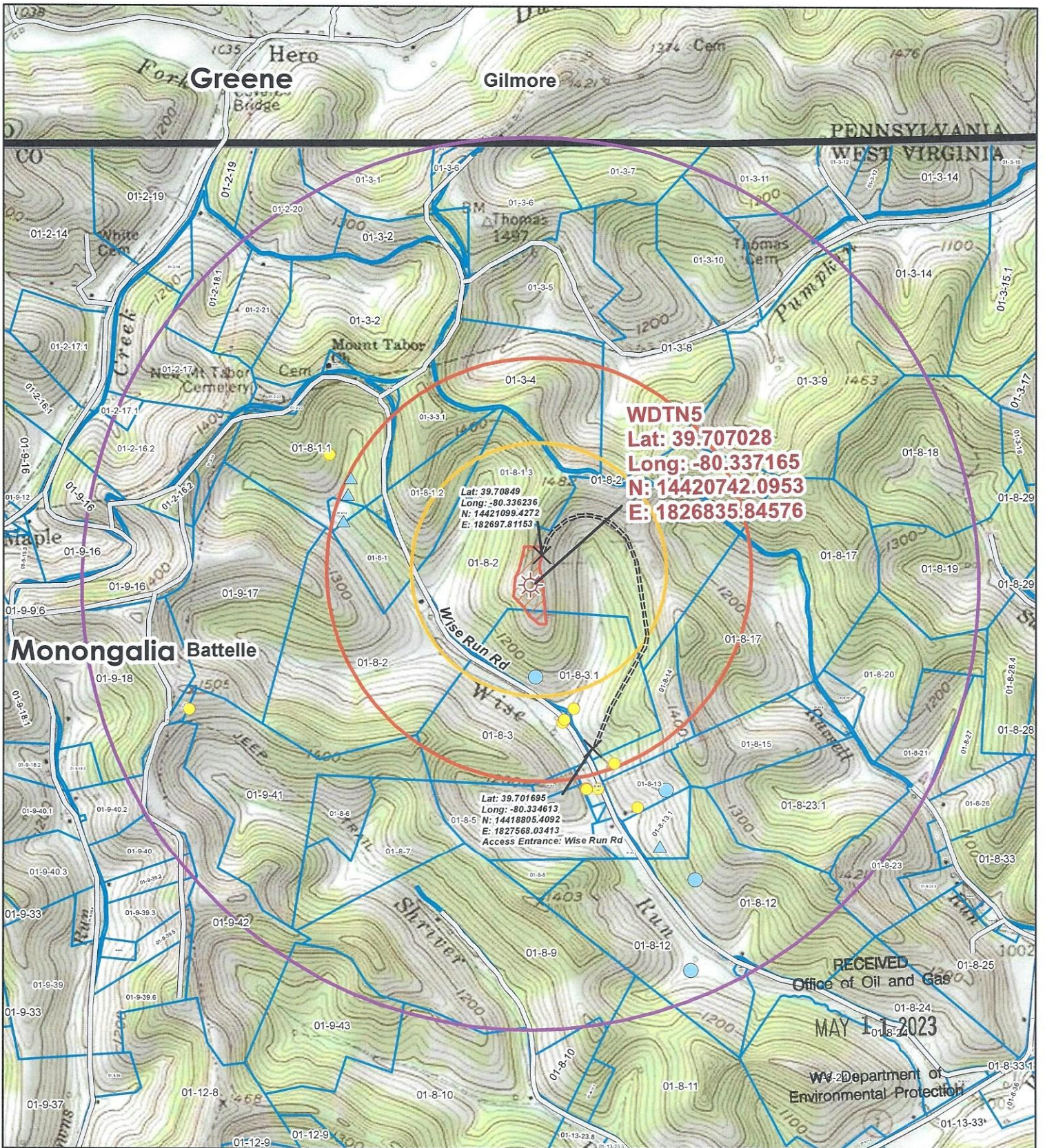
Digitally signed by
Gayne Knitowski
Date: 2023.05.04
09:12:40 -04'00'

Date: _____

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WDTN5
 Lat: 39.707028
 Long: -80.337165
 N: 14420742.0953
 E: 1826835.84576

Lat: 39.70849
 Long: -80.336236
 N: 14421099.4272
 E: 182697.81153

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

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CATEGORY Pond Spring Well Wellbore Access Points Access Road 2,500 Foot Buffer 1,500 Foot Buffer 1 Mile Buffer Surface Parcel Well Pad	 0 1,000 2,000 Feet 1 inch = 1,500 feet	 Topographic Well Map WDTN5
	Original Date: 4/19/2023 Prepared By: GIS	
	Revision Date: 4/19/2023 Approved By: GIS	
This map is property of CNX Land Resources Inc. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent. © Copyright CNX Land Resources Inc. 2011		

06/16/2023

WDTN5RHSM
CNX Gas Company LLC

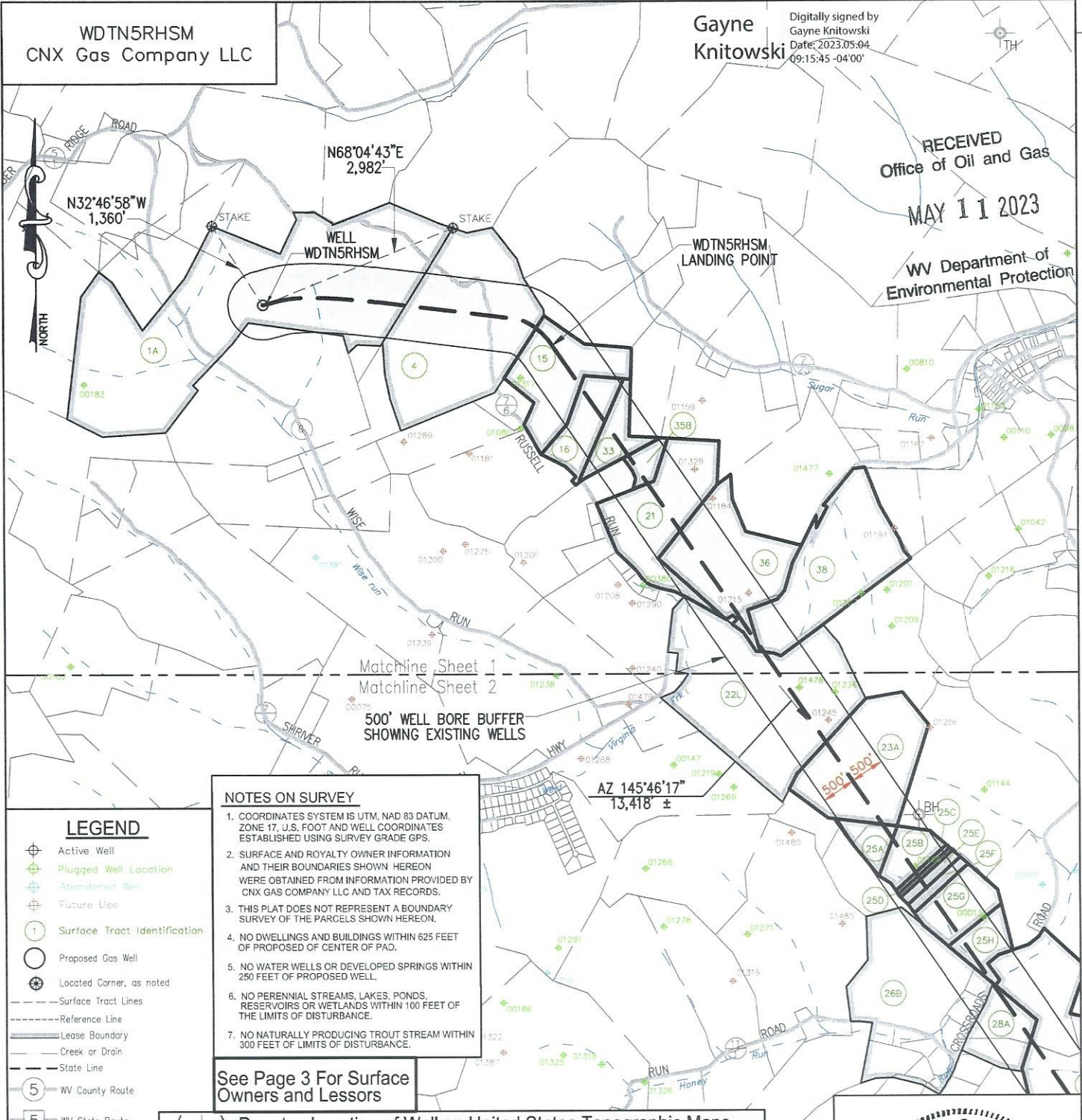
Gayne
Knitowski

Digitally signed by
Gayne Knitowski
Date: 2023.05.04
09:15:45 -04'00'

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Environmental Protection



- NOTES ON SURVEY**
1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE OBTAINED FROM INFORMATION PROVIDED BY CNX GAS COMPANY LLC AND TAX RECORDS.
 3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
 5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

- LEGEND**
- Active Well
 - Plugged Well Location
 - Abandoned Well
 - Future Use
 - Surface Tract Identification
 - Proposed Gas Well
 - Located Corner, as noted
 - Surface Tract Lines
 - Reference Line
 - Lease Boundary
 - Creek or Drain
 - State Line
 - WV County Route
 - WV State Route

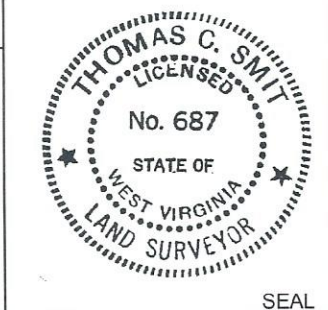
See Page 3 For Surface Owners and Lessors

() Denotes Location of Well on United States Topographic Maps



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.

Thomas C. Smit
L. L. S. 687



FILE NO:
DRAWING NO:
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: APRIL 20 20 23
OPERATORS WELL NO:
API WELL NO
47 - 061 -
STATE COUNTY PERMIT

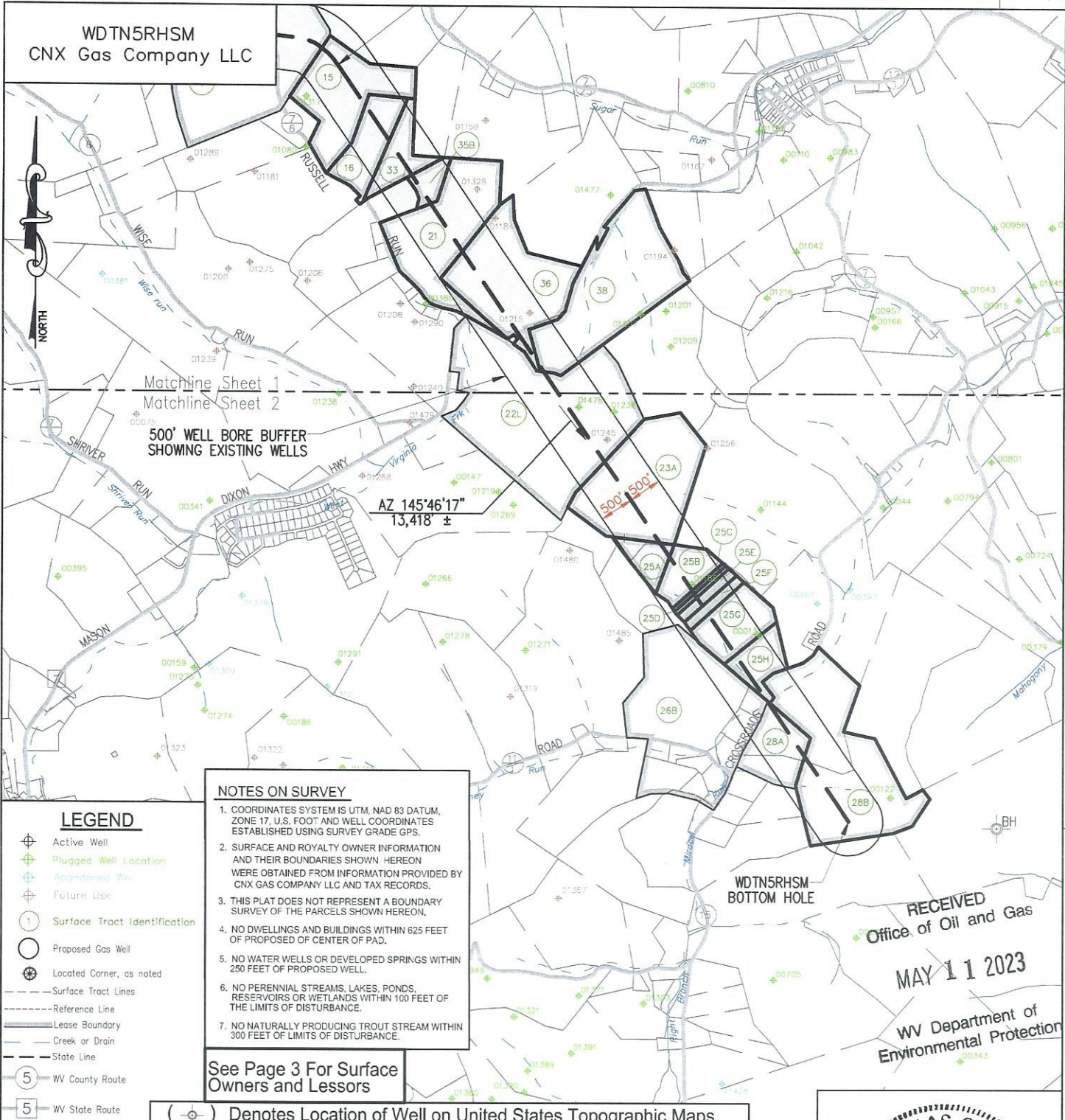
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION ELEVATION: 1390' WATERSHED: Dunkard Creek QUADRANGLE: Wadestown
DISTRICT: Batelle COUNTY: Monongalia

SURFACE OWNER: John M. Wise, ET UX., ET AL. ACREAGE: 207.36 ±
ROYALTY OWNER: Richard W. Wise, ET AL. LEASE NO: 189010000 ACREAGE: ~~06#16/2023~~

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 7,998'

WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Horizon Vue Drive ADDRESS: 1000 Horizon Vue Drive
Canonsburg, PA 15317 Canonsburg, PA 15317



NOTES ON SURVEY

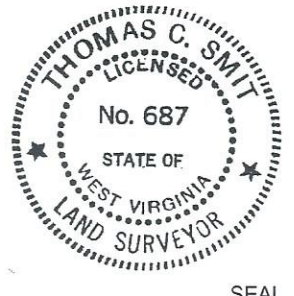
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 - ⊕ Plugged Well Location
 - ⊕ Abandoned Well
 - ⊕ Future Use
 - ① Surface Tract Identification
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 - ⊕ Located Corner, as noted
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 - ⑤ WV State Route

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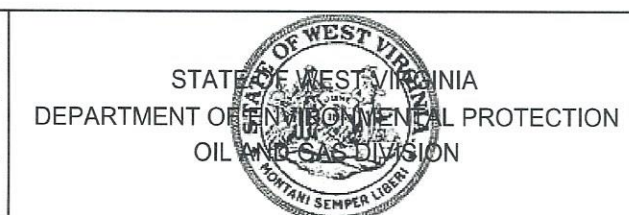
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WV Department of Environmental Protection



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L. L. S. 687

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47 - 061 -
STATE COUNTY PERMIT

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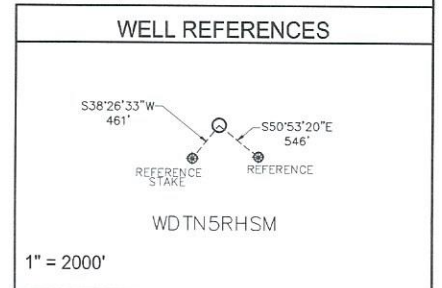
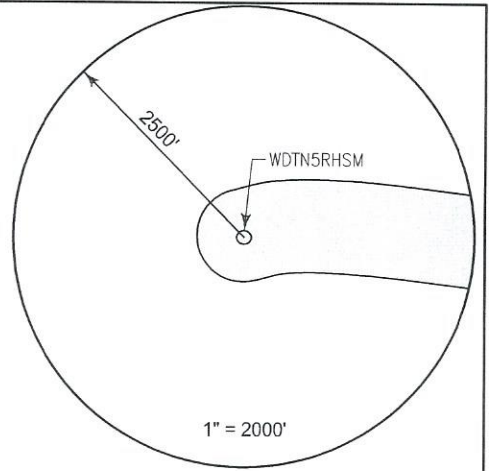
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WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Horizon Vue Drive ADDRESS: 1000 Horizon Vue Drive
Canonsburg, PA 15317 Canonsburg, PA 15317

WDTN5RHSM
CNX Gas Company LLC

TRACT ID	SURFACE OWNER	LESSOR	PIN
1A	Richard Wise, et al	Richard L. McCauley	1-8-2
		Judy A. Eckman	
		Thomas E. McCauley	
		Regina Wise Myers, aka Violet Regina Myers	
		Evalee A. Everly Shaheen	
		Zelda Ruth Brummage	
		Dexter Murle Stewart	
		Walter C. Ord	
		James Freeman Stewart	
		Clifford J. Wise	
		Victor E. Wise, a single man	
		Jesse D. Jones, a married man	
		Phyllis J. Petrosky, a widowed woman	
		Annette E. Stewart, single	
		Harold M. Jones, Jr., a single man	
		Robert Stewart	
		Richard W. Wise	
		Walter R. Currence	
		Donald D. Wise, aka Donald G. Wise	
		Maureen S. Currence	
		Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen	
		Michelle L. Currence	
		Justin P. Stewart, single	
		Debra Goff	
		Eleanor J. Wise, single	
		Donald E. Nunley and Deborah L. Nunley	
		Fred C. Wise and Alice F. Wise	
		Patricia J. Mumaw and Richard L. Mumaw	
		Richard A. Nunley and Diana K. Nunley	
		Mary Nunley Stepelton and Donald Stepelton	
		Linda Stapp	
		Melissa A. Bookout	
		Jane Irons, widow	
		Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen	
		Eileen Ann Lyle	
		Robert Eugene Michael, Sr.	
		Frank Dennis Michael, Jr.	
		Evelyn June Michael	
		Tonya Chersin	
		Boyd Hawkins	
		Becky L. Hawkins f/k/a Becky Bortnick	



SURFACE HOLE LOCATION (SHL)

UTM 17 NAD 83
N: 4395448.79
E: 556813.48
NAD 83, WV NORTH
N: 440726.270
E: 1732951.383
LAT/LON DATUM NAD 83
LAT: 39°42' 25.231"
LON: 80°20' 14.096"
LANDING POINT
UTM 17 NAD 83
N: 4395290.01
E: 558096.45
NAD 83, WV NORTH
N: 440134.884
E: 1737152.570
LAT/LON DATUM NAD 83
LAT: 39°42' 19.770"
LON: 80°19' 20.273"

BOTTOM HOLE LOCATION (BHL)

UTM 17 NAD 83
N: 4391948.48
E: 560452.25
NAD 83, WV NORTH
N: 429040.979
E: 1744699.574
LAT/LON DATUM NAD 83
LAT: 39° 40' 30.800"
LON: 80° 17' 42.452"

WDTN5 WELL PAD



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Environmental Protection



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.

Thomas C. Smit
L. L. S. 687



SEAL

FILE NO: _____
DRAWING NO: _____
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: APRIL 20 20 23
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API WELL NO: 47 - 061 - _____
STATE COUNTY PERMIT

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ADDRESS: 1000 Horizon Vue Drive ADDRESS: 1000 Horizon Vue Drive
Canonsburg, PA 15317 Canonsburg, PA 15317

06/16/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
4	CNX Midstream DEVCO III LP	Amir H. Mohammadi	1-8-17
		Aliakbar Afshari	
15	CNX Midstream DEVCO III LP	Bounty Minerals, LLC	1-8-20
		Kenneth W. Lytle	
16	Troy Edward Kirby, et ux	Linda S. Brady	1-8-21
		James D. Brady	
		Rita Jean Stallberg	
		Nancy K. Hoffman	
		Donald L. Brady	
		Ronald Brady	
		Linnie M. Russell	
		Linda K. Baker	
		Nathan Dane Kyle	
		Stephen D. Russell	
		Paul E. Brady, III	
		Robert W. Russell, Jr.	
		Jeffrey Lewis Brady	
		Chad L. Hoffman	
		Tina R. Davis	
		Carla K. Moser	
		Randy G. McDaniel	
		David W. Robinson	
		Mary Jane Keys	
		Ward Robin Brumfield	
		Kenyon G. Kyle	
		William C. Powell	
		James E. Stiffler and Mary Stiffler	
		Gregory L. Russell	
		Dari Sullivan	
		Kim Kyle	
		George Steven Bachman	
		Richard Eugene Brady	
		Barry A. Kennedy & W. Kirt Kennedy, as co-trustees of the Kennedy Revocable Trust No. 1, UTD December 1, 1980	
		Tina Russell Hainbach	
		John D. Brumfield III	
		Roger Brumfield	
		William Baker	
		Larry J. McDaniel	
		Robert J. Wittman DBA Five Star JV II	
		Patsy Brady	
33	Troy Edward Kirby, et ux	Linda S. Brady	1-8-27
		James D. Brady	
		Rita Jean Stallberg	
		Nancy K. Hoffman	
		Donald L. Brady	
		Ronald Brady	
		Linnie M. Russell	
		Linda K. Baker	
		Nathan Dane Kyle	
		Stephen D. Russell	
		Paul E. Brady, III	
		Robert W. Russell, Jr.	
		Jeffrey Lewis Brady	
		Chad L. Hoffman	
		Tina R. Davis	
		Carla K. Moser	

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		Randy G. McDaniel	
		David W. Robinson	
		Mary Jane Keys	
		Ward Robin Brumfield	
		Kenyon G. Kyle	
		William C. Powell	
		James E. Stiffler and Mary Stiffler	
		Gregory L. Russell	
		Dari Sullivan	
		Kim Kyle	
		George Steven Bachman	
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		Tina Russell Hainbach	
		John D. Brumfield III	
		Roger Brumfield	
		William Baker	
		Larry J. McDaniel	
		Robert J. Wittman DBA Five Star JV II	
		Patsy Brady	
TRACT ID	SURFACE OWNER	LESSOR	PIN
35B (7 Ac)	John Paul Stillwagon, et ux	John Paul Stillwagon and Mary Louise Stillwagon, husband and wife	1-8-26
		Esther E. Osburn f/k/a Esther Elizabeth Yost	
		Karl A. Veek	
		Carolyn L. Veek	
		Phillip A. Veek	
		Justin M. Quinlan	
		Sharon Rose	
TRACT ID	SURFACE OWNER	LESSOR	PIN
21	CNX Land LLC	S. H. Shiver and Lucretia Shiver, his wife	1-8-33
		South Penn Oil Company	
		Henry D. Shriver and Barbara E. Shriver, his wife, and Virginia Taylor Perry and Graves H. Perry, her husband	
		Hope Natural Gas Company	
		Consolidated Gas Supply Corporation	
		Consolidated Gas Transmission Corporation	
		Anne D. Coon, Betty Rodriquez, Anne Barr, Wilma S. Shriver, Ralph Shriver, William R. Shriver, Jack L. Shriver, George H. Shriver and Geraldine L. Shriver	
		Virginia Taylor Perry	
		CNG Transmission Corporation	
		CNG Producing Company	
		Dominion Exploration and Production Inc.	
		Antero Resources Appalachian Corporation	
		Dominion Transmission, Inc.	
		CONSOL Energy Holdings LLC XVI	
		CONSOL Gas Company	
TRACT ID	SURFACE OWNER	LESSOR	PIN
36	CNX Land LLC	Fluharty Family, LLC	1-8-33
		OPCR-SKS Estate LLC	
TRACT ID	SURFACE OWNER	LESSOR	PIN
38	CNX Land LLC	Fluharty Family, LLC	1-8-33 1-8-33.1
		Mary Jane Burke	
TRACT ID	SURFACE OWNER	LESSOR	PIN
22L	CNX Land LLC	S. H. Shiver and Lucretia Shiver, his wife	1-8-33.1
		South Penn Oil Company	
		Henry D. Shriver and Barbara E. Shriver, his wife, and Virginia Taylor Perry and Graves H. Perry, her husband	
		Hope Natural Gas Company	
		Consolidated Gas Supply Corporation	
		Consolidated Gas Transmission Corporation	
		Anne D. Coon, Betty Rodriquez, Anne Barr, Wilma S. Shriver, Ralph Shriver, William R. Shriver, Jack L. Shriver, George H. Shriver and Geraldine L. Shriver	
		Virginia Taylor Perry	
		CNG Transmission Corporation	
		CNG Producing Company	
		Dominion Exploration and Production Inc.	
		Antero Resources Appalachian Corporation	
		Dominion Transmission, Inc.	
		CONSOL Energy Holdings LLC XVI	
		CONSOL Gas Company	

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Environmental Protection

06/16/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
23A	Robert Daryle Hennen, et ux	Roberta J. Sprowls	1-13-34
		Robert L. Henderson and Rebecca P. Henderson, husband and wife	
		Charline Smith a/k/a Charlene Smith	
		Charles W. Patterson, Jr.	
		Matthew Kirby	
		Donna Dallam	
		Susan C. Reese	
		Jack M. Hose	
		Lee Ann Sansone	
		Amy Norwine	
		Patricia Norwine	
		Brian E. Hose	
		William M. Norwine	
		Janet McCarthy	
		Catherine Rivas	
TRACT ID	SURFACE OWNER	LESSOR	PIN
25A	Randy A. Hennen, et al	Bounty Minerals, LLC	1-14-3 1-13-34.1
		Sharon D Heslep	
		Milner Family Irrevocable Trust dated 9/12/2002	
		Carol B Blaney and Dennis L Blaney, wife and husband	
		Waco Oil & Gas Co., Inc.	
		Shuman, Inc.	
		Sue Ann Sanders and Clair L. Sanders, wife and husband	
		Lois M. Barr a/k/a Lois Barr, through her attorney-in-fact, Robert A. Barr	
		Ruth E. Beam	
		James A. Barr	
		Elaine K. Denner	
		Donna J. Claiborne and Timothy J. Claiborne, wife and husband	
		Charlene Nancy Szaller and James Szaller, wife and husband	
		Katherine S. Ford and Richard B. Ford, wife and husband	
		Sharon L. Westfall, by Richard C. Westfall, her Attorney-in-Fact	
		Glenn R. Smith	
		Linda M. Smith	
		John Brown	
		Sandra K. Rice	
		Robert Benjamin Lambert	
		Michael Walter Lambert	
TRACT ID	SURFACE OWNER	LESSOR	PIN
25B 25C 25D 25E 25F 25G	Randy A. Hennen, et al	David L. Watkins and Linda Gale Watkins, husband and wife	1-14-3
		Larry Shriver a/k/a Larry L Shriver, by Michael Shane Shriver, his Attorney-in-Fact	
		George H. Shriver and Delores K. Shriver, husband and wife	
		Shannon Renee Shriver n/k/a Shannon R. Scholl and Kurt W. Scholl, wife and husband	
		Barbara Sue Shriver	
		Donald L. White and Linda L. White, husband and wife	
		David Bryan Shriver and Deborah G Shriver, husband and wife	
		Shauna Renee Bingaman	
		Harriet E. Rodriguez a/k/a Harriet E. Rodriguez	
		Robert Alan Shriver, Jr.	
		Jack Shriver, Jr and Mary Ellen Shriver, husband and wife	
		Cynthia Marie Lyle	
		Richard D. Shriver and Lydia Shriver, husband and wife	
		Lynda Ann Shriver	
		Ricky Kaye Peaslee a/k/a Rick Peaslee and Katherine B. Peaslee, husband and wife	
		Anne D. Coon	
TRACT ID	SURFACE OWNER	LESSOR	PIN
25H	Randy A. Hennen, et al	Bounty Minerals, LLC	1-14-3
		John E. Stankola	

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TRACT ID	SURFACE OWNER	LESSOR	PIN
26B	Randy A. Hennen, et al	Bounty Minerals, LLC	1-13-35 1-13-35.1 1-13-35.2 1-13-35.3 1-13-35.4 1-13-35.6 1-13-35.8 1-14-38 1-14-39 1-14-40
		Bounty Minerals III Acquisitions, LLC	
		Lola Drilling I, LLC	
		Rice Drilling B LLC	
TRACT ID	SURFACE OWNER	LESSOR	PIN
28A	Michael F. Chisler, et al	Douglas E Bell and Carole A Bell, husband and wife	1-14-6 1-14-6.1 1-14-6.2
		ERP Federal Mining Complex, LLC	
		Northeast Natural Energy LLC	
TRACT ID	SURFACE OWNER	LESSOR	PIN
28B	Michael F. Chisler, et al	ERP Federal Mining Complex, LLC	1-14-6 1-14-6.1
		Northeast Natural Energy LLC	

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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
----------------------	-----------------------	-----------------------	---------	-----------

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

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

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

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

Well Operator: CNX GAS COMPANY LLC
 By: SARAH WEIGAND *Sarah Weigand*
 Its: MANAGER PERMITTING SERVICES

Attachment - Form WW-6A-1 for WDTN5RHSM								
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page	
1A	1-8-2	189010000	Richard Wise, et al	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	
				Evalae A. Evely Shaheen	CNX Gas Company LLC	Not less than 1/8	1501/321	
				Zelda Ruth Brummage	CNX Gas Company LLC	Not less than 1/8	1500/762	
				Dexter Murlie Stewart	CNX Gas Company LLC	Not less than 1/8	1500/277	
				Walter C. Ord	CNX Gas Company LLC	Not less than 1/8	1501/803	
				James Freeman Stewart	CNX Gas Company LLC	Not less than 1/8	1501/806	
				Clifford J. Wise	CNX Gas Company LLC	Not less than 1/8	1525/130	
				Victor E. Wise, a single man	CNX Gas Company LLC	Not less than 1/8	1501/813	
				Jesse D. Jones, a married man	CNX Gas Company LLC	Not less than 1/8	1509/468	
				Phyllis J. Petrosky, a widowed woman	CNX Gas Company LLC	Not less than 1/8	1510/203	
				Annette E. Stewart, single	CNX Gas Company LLC	Not less than 1/8	1510/806	
				Harold M. Jones, Jr., a single man	CNX Gas Company LLC	Not less than 1/8	1511/101	
				Robert Stewart	CNX Gas Company LLC	Not less than 1/8	1520/433	
				Richard W. Wise	CNX Gas Company LLC	Not less than 1/8	1516/36	
				Walter R. Currence	CNX Gas Company LLC	Not less than 1/8	1524/530	
				Donald D. Wise, aka Donald G. Wise	CNX Gas Company LLC	Not less than 1/8	1516/486	
				Maureen S. Currence	CNX Gas Company LLC	Not less than 1/8	1520/781	
				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	
				Michelle L. Currence	CNX Gas Company LLC	Not less than 1/8	1528/431	
				Justin P. Stewart, single	CNX Gas Company LLC	Not less than 1/8	1520/625	
				Debra Goff	CNX Gas Company LLC	Not less than 1/8	1529/256	
				Eleanor J. Wise, single	CNX Gas Company LLC	Not less than 1/8	1501/809	
				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 Stappelton and Donald Stappelton	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	1602/113	
				Jane Irons, widow	CNX Gas Company LLC	Not less than 1/8	1602/108	
				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	
				Robert Eugene Michael, Sr.	CNX Gas Company LLC	Fee	1599/282	
				Evelyn June Michael	CNX Gas Company LLC	Fee	1600/880	
				Frank Dennis Michael, Jr.	CNX Gas Company LLC	Fee	1599/267	
				Boyd Hawkins	CNX Gas Company LLC	Fee	1601/152	
Tonya Chersin	CNX Gas Company LLC	Fee	1601/148					
Eileen Ann Lyle	CNX Gas Company LLC	Fee	1600/462					
Becky L. Hawkins f/n/a Becky Bortnick	CNX Gas Company LLC	Fee	1605/324					
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page	
4	1-8-17	204760000	CNX Midstream DEVCO III LP	Amir H. Mohammadi	CNX Gas Company LLC	Not less than 1/8	1500/290	
				Allakbar Afshari	CNX Gas Company LLC	Not less than 1/8	1501/327	
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page	
15	1-8-20	239927000	CNX Midstream DEVCO III LP	Bounty Minerals, LLC	CNX Gas Company LLC	Not less than 1/8	1664/793	
				Kenneth W. Lytle	CNX Gas Company LLC	Not less than 1/8	1761/322	
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page	
16	1-8-21	239928000	Troy Edward Kirby, et ux	Linda S. Brady	CNX Gas Company LLC	Not less than 1/8	1514/796	
				James D. Brady	CNX Gas Company LLC	Not less than 1/8	1511/109	
				Rita Jean Stallberg	CNX Gas Company LLC	Not less than 1/8	1512/764	
				Nancy K. Hoffman	CNX Gas Company LLC	Not less than 1/8	1515/758	
				Donald L. Brady	CNX Gas Company LLC	Not less than 1/8	1517/712	
				Ronald Brady	CNX Gas Company LLC	Not less than 1/8	1516/52	
				Linnie M. Russell	CNX Gas Company LLC	Not less than 1/8	1515/762	
				Linda K. Baker	CNX Gas Company LLC	Not less than 1/8	1513/367	
				Nathan Dane Kyle	CNX Gas Company LLC	Not less than 1/8	1516/56	
				Stephen D. Russell	CNX Gas Company LLC	Not less than 1/8	1515/766	
				Paul E. Brady, III	CNX Gas Company LLC	Not less than 1/8	1515/389	
				Robert W. Russell, Jr.	CNX Gas Company LLC	Not less than 1/8	1515/778	
				Jeffrey Lewis Brady	CNX Gas Company LLC	Not less than 1/8	1516/60	
				Chad L. Hoffman	CNX Gas Company LLC	Not less than 1/8	1516/64	
				Tina R. Davis	CNX Gas Company LLC	Not less than 1/8	1516/68	
				Carla K. Moser	CNX Gas Company LLC	Not less than 1/8	1516/72	
				Randy G. McDaniel	CNX Gas Company LLC	Not less than 1/8	1517/253	
				David W. Robinson	CNX Gas Company LLC	Not less than 1/8	1516/470	
				Mary Jane Keys	CNX Gas Company LLC	Not less than 1/8	1517/716	
				Ward Robin Brumfield	CNX Gas Company LLC	Not less than 1/8	1516/76	
				Kenyon G. Kyle	CNX Gas Company LLC	Not less than 1/8	1516/80	
				William C. Powell	CNX Gas Company LLC	Not less than 1/8	1520/506	
				James E. Stiffler and Mary Stiffler	CNX Gas Company LLC	Not less than 1/8	1522/73	
				Gregory L. Russell	CNX Gas Company LLC	Not less than 1/8	1522/78	
				Dari Sullivan	CNX Gas Company LLC	Not less than 1/8	1539/565	
				Kim Kyle	CNX Gas Company LLC	Not less than 1/8	1516/84	
				George Steven Bachman	CNX Gas Company LLC	Not less than 1/8	1539/569	
				Richard Eugene Brady	CNX Gas Company LLC	Not less than 1/8	1527/567	
				Barry A. Kennedy & W. Kirt Kennedy, as co-trustees of the Kennedy Revocable Trust No. 1, UTD December 1, 1980	CNX Gas Company LLC	Not less than 1/8	1525/266	
				Tina Russell Hainbach	CNX Gas Company LLC	Not less than 1/8	1514/547	
				John D. Brumfield III	CNX Gas Company LLC	Not less than 1/8	1761/603	
				Roger Brumfield	CNX Gas Company LLC	Not less than 1/8	1769/434	
				William Baker	CNX Gas Company LLC	Not less than 1/8	1772/180	
				Larry J. McDaniel	CNX Gas Company LLC	Not less than 1/8	1509/501	
Robert J. Whitman DBA Five Star JV II	CNX Gas Company LLC	Not less than 1/8	1798/580					
Patsy Brady	CNX Gas Company LLC	Not less than 1/8	156/773					
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page	
33	1-8-27	239928000	Troy Edward Kirby, et ux	Linda S. Brady	CNX Gas Company LLC	Not less than 1/8	1514/796	
				James D. Brady	CNX Gas Company LLC	Not less than 1/8	1511/109	
				Rita Jean Stallberg	CNX Gas Company LLC	Not less than 1/8	1512/764	
				Nancy K. Hoffman	CNX Gas Company LLC	Not less than 1/8	1515/758	
				Donald L. Brady	CNX Gas Company LLC	Not less than 1/8	1517/712	
				Ronald Brady	CNX Gas Company LLC	Not less than 1/8	1516/52	
				Linnie M. Russell	CNX Gas Company LLC	Not less than 1/8	1515/762	
				Linda K. Baker	CNX Gas Company LLC	Not less than 1/8	1513/367	
				Nathan Dane Kyle	CNX Gas Company LLC	Not less than 1/8	1516/56	
				Stephen D. Russell	CNX Gas Company LLC	Not less than 1/8	1515/766	
				Paul E. Brady, III	CNX Gas Company LLC	Not less than 1/8	1515/389	
				Robert W. Russell, Jr.	CNX Gas Company LLC	Not less than 1/8	1515/778	
				Jeffrey Lewis Brady	CNX Gas Company LLC	Not less than 1/8	1516/60	
				Chad L. Hoffman	CNX Gas Company LLC	Not less than 1/8	1516/64	
				Tina R. Davis	CNX Gas Company LLC	Not less than 1/8	1516/68	
				Carla K. Moser	CNX Gas Company LLC	Not less than 1/8	1516/72	
				Randy G. McDaniel	CNX Gas Company LLC	Not less than 1/8	1517/253	
				David W. Robinson	CNX Gas Company LLC	Not less than 1/8	1516/470	

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
				Mary Jane Keys	CNX Gas Company LLC	Not less than 1/8	1517/716
				Ward Robin Brumfield	CNX Gas Company LLC	Not less than 1/8	1516/76
				Kemvyn G. Kyle	CNX Gas Company LLC	Not less than 1/8	1516/80
				William C. Powell	CNX Gas Company LLC	Not less than 1/8	1520/506
				James E. Stiffler and Mary Stiffler	CNX Gas Company LLC	Not less than 1/8	1522/773
				Gregory L. Russell	CNX Gas Company LLC	Not less than 1/8	1522/773
				Dari Sullivan	CNX Gas Company LLC	Not less than 1/8	1522/778
				Kim Kyle	CNX Gas Company LLC	Not less than 1/8	1539/565
				George Steven Bachman	CNX Gas Company LLC	Not less than 1/8	1539/569
				Richard Eugene Brady	CNX Gas Company LLC	Not less than 1/8	1527/567
				Barry A. Kennedy & W. Kirt Kennedy, as co-trustees of the Kennedy Revocable Trust No. 1, UTD December 1, 1980	CNX Gas Company LLC	Not less than 1/8	1525/266
				Tina Russell Hainbach	CNX Gas Company LLC	Not less than 1/8	1514/547
				John D. Brumfield III	CNX Gas Company LLC	Not less than 1/8	1761/603
				Roger Brumfield	CNX Gas Company LLC	Not less than 1/8	1769/434
				William Baker	CNX Gas Company LLC	Not less than 1/8	1772/180
				Larry J. McDaniel	CNX Gas Company LLC	Not less than 1/8	1509/501
				Robert J. Wittman DBA Five Star JV II	CNX Gas Company LLC	Not less than 1/8	1798/580
				Patsy Brady	CNX Gas Company LLC	Not less than 1/8	156/773
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
35B (7 Ac)	1-8-26	239931000	John Paul Stillwagon, et ux	John Paul Stillwagon and Mary Louise Stillwagon, husband and wife	CNX Gas Company LLC	Not less than 1/8	1771/563
				Esther E. Osburn f/k/a Esther Elizabeth Yost	CNX Gas Company LLC	Not less than 1/8	1769/135
				Karl A. Veek	CNX Gas Company LLC	Not less than 1/8	1793/381
				Carolyn L. Veek	CNX Gas Company LLC	Not less than 1/8	1794/207
				Phillip A. Veek	CNX Gas Company LLC	Not less than 1/8	1792/691
				Justin M. Quinlan	CNX Gas Company LLC	Not less than 1/8	1793/186
				Sharon Rose	CNX Gas Company LLC	Not less than 1/8	1805/458
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
21	1-8-33	189893000	CNX Land LLC	S. H. Shiver and Lucretia Shiver, his wife	South Penn Oil Company	Not less than 1/8	52/400
				Henry D. Shriver and Barbara E. Shriver, his wife, and Virginia Taylor Perry and Graves H. Perry, her husband	Hope Natural Gas Company	Assignment	Unrecorded
				Hope Natural Gas Company	Hope Natural Gas Company	Lease Modification	296/105
				Consolidated Gas Supply Corporation	Consolidated Gas Supply Corporation	Assignment	633/144
				Consolidated Gas Transmission Corporation	Consolidated Gas Transmission Corporation	Assignment	16/198
				Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	1144/656
				Anne D. Coon, Betty Rodriguez, Anne Barr, Wilma S. Shriver, Ralph Shriver, William R. Shriver, Jack L. Shriver, George H. Shriver and Geraldine L. Shriver	CNG Transmission Corporation	Lease Modification	1108/324
				Virginia Taylor Perry	CNG Transmission Corporation	Lease Modification	1108/339
				CNG Transmission Corporation	CNG Producing Company	Assignment	51/416
				CNG Producing Company	Dominion Exploration and Production Inc.	Merger	72/449
				Dominion Exploration and Production Inc.	Antero Resources Appalachian Corporation	Assignment	102/797
				Antero Resources Appalachian Corporation	Dominion Transmission, Inc.	Assignment	103/606
				Dominion Transmission, Inc.	CONSOL Energy Holdings LLC XVI	Assignment	108/64
				CONSOL Energy Holdings LLC XVI	CONSOL Gas Company	Merger	60/18
				CONSOL Gas Company	CNX Gas Company, LLC	Merger	2/424
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
36	1-8-33	239933000	CNX Land LLC	Fluhart Family, LLC	CNX Gas Company LLC	Not less than 1/8	1491/272
				OPCR-SKS Estate LLC	CNX Gas Company LLC	Not less than 1/8	1750/433
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
38	1-8-33 1-8-33.1	246041000	CNX Land LLC	Fluhart Family, LLC	CNX Gas Company LLC	Not less than 1/8	1491/276
				Mary Jane Burke	CNX Gas Company LLC	Not less than 1/8	1516/40
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
22L	1-8-33.1	189893000	CNX Land LLC	S. H. Shiver and Lucretia Shiver, his wife	South Penn Oil Company	Not less than 1/8	52/400
				Henry D. Shriver and Barbara E. Shriver, his wife, and Virginia Taylor Perry and Graves H. Perry, her husband	Hope Natural Gas Company	Assignment	Unrecorded
				Hope Natural Gas Company	Hope Natural Gas Company	Lease Modification	296/105
				Consolidated Gas Supply Corporation	Consolidated Gas Supply Corporation	Assignment	633/144
				Consolidated Gas Transmission Corporation	Consolidated Gas Transmission Corporation	Assignment	16/198
				Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	1144/656
				Anne D. Coon, Betty Rodriguez, Anne Barr, Wilma S. Shriver, Ralph Shriver, William R. Shriver, Jack L. Shriver, George H. Shriver and Geraldine L. Shriver	CNG Transmission Corporation	Lease Modification	1108/324
				Virginia Taylor Perry	CNG Transmission Corporation	Lease Modification	1108/339
				CNG Transmission Corporation	CNG Producing Company	Assignment	51/416
				CNG Producing Company	Dominion Exploration and Production Inc.	Merger	72/449
				Dominion Exploration and Production Inc.	Antero Resources Appalachian Corporation	Assignment	102/797
				Antero Resources Appalachian Corporation	Dominion Transmission, Inc.	Assignment	103/606
				Dominion Transmission, Inc.	CONSOL Energy Holdings LLC XVI	Assignment	108/64
				CONSOL Energy Holdings LLC XVI	CONSOL Gas Company	Merger	60/18
				CONSOL Gas Company	CNX Gas Company, LLC	Merger	2/424
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
23A	1-13-34	258446000	Robert Daryle Hennen, et ux	Robert J. Spowls	CNX Gas Company LLC	Not less than 1/8	1753/272
				Robert L. Henderson and Rebecca P. Henderson, husband and wife	CNX Gas Company LLC	Not less than 1/8	1752/579
				Charline Smith a/k/a Charlene Smith	CNX Gas Company LLC	Not less than 1/8	1752/583
				Charles W. Patterson, Jr.	CNX Gas Company LLC	Not less than 1/8	1752/574
				Matthew Kirby	CNX Gas Company LLC	Not less than 1/8	1753/277
				Donna Dallam	CNX Gas Company LLC	Not less than 1/8	1754/774
				Susan C. Reese	CNX Gas Company LLC	Not less than 1/8	1754/769
				Jack M. Hose	CNX Gas Company LLC	Not less than 1/8	1793/176
				Lee Ann Sansone	CNX Gas Company LLC	Not less than 1/8	1792/686
				Amy Norwine	CNX Gas Company LLC	Not less than 1/8	1798/104
				Patricia Norwine	CNX Gas Company LLC	Not less than 1/8	1795/433
				Brian E. Hose	CNX Gas Company LLC	Not less than 1/8	1798/575
				William M. Norwine	CNX Gas Company LLC	Not less than 1/8	156/779
				Janet McCarthy	CNX Gas Company LLC	Not less than 1/8	156/779
				Catherine Rivas	CNX Gas Company LLC	Not less than 1/8	156/779
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
25A	1-14-3 1-13-34.1	284901000	Randy A. Hennen, et al	Bounty Minerals, LLC	CNX Gas Company LLC	Not less than 1/8	1644/318
				Sharon D Heslep	CNX Gas Company LLC	Not less than 1/8	1773/28
				Milner Family Irrevocable Trust dated 9/12/2002	CNX Gas Company LLC	Not less than 1/8	1773/77
				Carol B Blaney and Dennis L Blaney, wife and husband	CNX Gas Company LLC	Not less than 1/8	1774/218
				Waco Oil & Gas Co., Inc.	CNX Gas Company LLC	Not less than 1/8	1784/810
				Shuman, Inc.	CNX Gas Company LLC	Not less than 1/8	1773/623
				Sue Ann Sanders and Clair L. Sanders, wife and husband	CNX Gas Company LLC	Not less than 1/8	1793/733
				Lois M. Barr a/k/a Lois Barr, through her attorney-in-fact, Robert A. Barr	CNX Gas Company LLC	Not less than 1/8	1794/212
				Ruth E. Beam	CNX Gas Company LLC	Not less than 1/8	1792/55
				James A. Barr	CNX Gas Company LLC	Not less than 1/8	1790/322
				Elaine K. Denner	CNX Gas Company LLC	Not less than 1/8	1790/327
				Donna J. Claiborne and Timothy J. Claiborne, wife and husband	CNX Gas Company LLC	Not less than 1/8	1790/562
				Charlene Nancy Staller and James Staller, wife and husband	CNX Gas Company LLC	Not less than 1/8	1790/307
				Katherine S. Ford and Richard B. Ford, wife and husband	CNX Gas Company LLC	Not less than 1/8	1790/317
				Sharon L. Westfall, by Richard C. Westfall, her Attorney-In-Fact	CNX Gas Company LLC	Not less than 1/8	1796/55

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
				Glenn R. Smith Linda M. Smith John Brown Sandra K. Rice Robert Benjamin Lambert Michael Walter Lambert	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	156/777 156/777 156/777 156/777 156/777 156/777
25B 25C 25D 25E 25F 25G	1-14-3	284901000	Randy A. Hennen, et al	David L. Watkins and Linda Gale Watkins, husband and wife	CNX Gas Company LLC	Not less than 1/8	1766/210
				Larry Shriver a/k/a Larry L Shriver, by Michael Shane Shriver, his Attorney-in-Fact George H. Shriver and Delores K. Shriver, husband and wife Shannon Renee Shriver n/k/a Shannon R. Scholl and Kurt W. Scholl, wife and husband Barbara Sue Shriver Donald L. White and Linda L. White, husband and wife David Bryan Shriver and Deborah G Shriver, husband and wife Shauna Renee Bingaman Harriet E. Rodriguez a/k/a Harriet E. Rodriguez Robert Alan Shriver, Jr. Jack Shriver, Jr and Mary Ellen Shriver, husband and wife Cynthia Marie Lyle Richard D. Shriver and Lydia Shriver, husband and wife Lynda Ann Shriver Ricky Kaye Peaslee a/k/a Rick Peaslee and Katherine B. Peaslee, husband and wife Anne D. Coon	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	1771/582 1771/587 1772/170 1772/160 1771/220 1774/223 1774/233 1774/253 1773/43 1777/404 1776/362 1777/399 1777/409 1795/451 1799/351
25H	1-14-3	284901000	Randy A. Hennen, et al	Bounty Minerals, LLC John E. Stankola	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1644/318 1753/249
26B	1-13-35 1-13-35.1 1-13-35.2 1-13-35.3 1-13-35.4 1-13-35.6 1-13-35.8 1-14-38 1-14-39 1-14-40	240572000	Randy A. Hennen, et al	Bounty Minerals, LLC	Lola Drilling I, LLC	Not less than 1/8	1586/4
				Bounty Minerals III Acquisitions, LLC Lola Drilling I, LLC Rice Drilling B LLC	Lola Drilling I, LLC Rice Drilling B LLC CNX Gas Company LLC	Not less than 1/8 Assignment Assignment	1586/7 133/752 153/774
28A	1-14-6 1-14-6.1 1-14-6.2	243488000 298560000	Michael F. Chisler, et al	Douglas E Bell and Carole A Bell, husband and wife	CHX Gas Company LLC	Not less than 1/8	1754/779
				ERP Federal Mining Complex, LLC Northeast Natural Energy LLC	Northeast Natural Energy LLC CNX Gas Company LLC	Not less than 1/8 Assignment	1602/252 158/234
28B	1-14-6 1-14-6.1	243488000 298560000	Michael F. Chisler, et al	ERP Federal Mining Complex, LLC	Northeast Natural Energy LLC	Not less than 1/8	1602/252
				Northeast Natural Energy LLC	CNX Gas Company LLC	Assignment	158/234

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

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

April 20, 2023

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 blue ink that reads 'Sarah Weigand'.

Sarah Weigand

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**Horizontal Natural Gas Well Work Permit
Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: The Dominion Post

Public Notice Date: 4/19/2023 & 4/26/2023

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: CNX Gas Company LLC **Well Number:** WDTN5PHSM, WDTN5QHSM, WDTN5RHSM

Address: 1000 Horizon Vue Drive, Canonsburg, PA 15317

Business Conducted: Natural gas production.

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Location –

State:	<u>West Virginia</u>	County:	<u>Monongalia</u>	WV Department of
District:	<u>Battelle</u>	Quadrangle:	<u>Wadestown</u>	<u>Environmental Protection</u>
UTM Coordinate NAD83 Northing:	<u>4395442.75, 4395443.54, 4395448.79</u>			
UTM coordinate NAD83 Easting:	<u>556814.27, 556820.31, 556813.48</u>			
Watershed:	<u>Dunkard Creek</u>			

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

06/16/2023

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

Date of Notice Certification: 5/9/2023

API No. 47- _____
Operator's Well No. WDTN5RHSM
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>556813.48</u>
County:	<u>MONONGALIA</u>		Northing:	<u>4395448.79</u>
District:	<u>BATTELLE</u>	Public Road Access:	<u>CR6 WISE RUN</u>	
Quadrangle:	<u>WADESTOWN</u>	Generally used farm name:	<u>WISE</u>	
Watershed:	<u>DUNKARD CREEK</u>			

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

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 <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"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <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"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
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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.

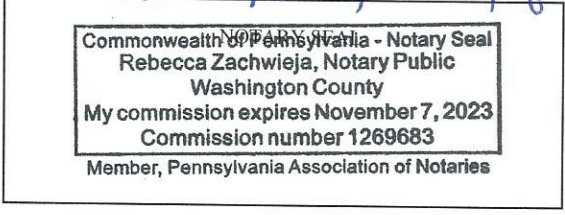
06/16/2023

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 HORIZON VUE DRIVE
By: SARAH WEIGAND *Sarah Weigand* CANONSBURG, PA 15317
Its: MANAGER PERMITTING SERVICES Facsimile: _____
Telephone: 724-485-3244 Email: SARAHWEIGAND@CNX.COM

Commonwealth of Pennsylvania, County of Washington



Subscribed and sworn before me this 3rd day of May 2023.
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: 5/9/23 Date Permit Application Filed: 5/11/2023

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: Barbara J Wagner
Address: 573 Wise Run Road, Wana, WV 26590

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: N/A
Address: _____

*Please attach additional forms if necessary

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WV Department of Environmental Protection

06/16/2023

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.

Well Location Restrictions

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

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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.**

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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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Notice is hereby given by:

Well Operator: CNX GAS COMPANY LLC
Telephone: 724-485-3244
Email: SARAHWEIGAND@CNX.COM

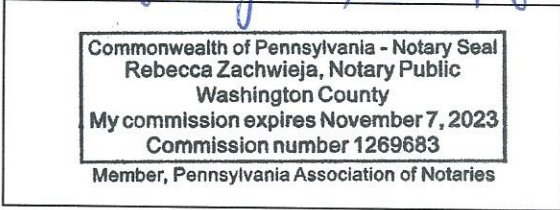
Address: 1000 HORIZON VUE DRIVE
CANONSBURG, PA 15317
Facsimile:

Sarah Weigand

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 3rd day of May, 2023
Rebecca Zachwieja Notary Public
My Commission Expires November 7, 2023

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MAY 11 2023

WV Department of
Environmental Protection

06/16/2023

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 5/9/23 **Date Permit Application Filed:** 5/11/2023

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: _____ **MAY 11 2023**

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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>556813.48</u>
County:	<u>MONONGALIA</u>		Northing:	<u>4395448.79</u>
District:	<u>BATTELLE</u>	Public Road Access:		<u>CR6 WISE RUN</u>
Quadrangle:	<u>WADESTOWN</u>	Generally used farm name:		<u>WISE</u>
Watershed:	<u>DUNKARD CREEK</u>			

WV Department of
Environmental Protection

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 HORIZON VUE DRIVE
CANONSBURG, PA 15317
Telephone: 724-485-3244
Email: SARAHWEIGAND@CNX.COM
Facsimile: _____

Authorized Representative: SARAH WEIGAND
Address: 1000 HORIZON VUE 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.

06/16/2023

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

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

Date of Notice: 5/9/23 **Date Permit Application Filed:** 5/11/2023

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: 556813.48
County: MONONGALIA Northing: 4395448.79
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.

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Environmental Protection

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

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06/16/2023



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

Gregory L. Bailey, P.E.
 Interim
 State Highway Engineer

Jimmy Wriston, P. E.
 Secretary of Transportation
 Commissioner of Highways

May 1, 2023

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 WDTN5 Pad, Monongalia County
 WDTN5RHSM Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2017-0929 which has been issued to Antero Resources for access to the State Road for a well site located off Monongalia County Route 6 SLS MP 1.29.

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 March 6, 2023. 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 Operations Engineer
 Central Office O&G Coordinator

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

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E.E.O./AFFIRMATIVE ACTION EMPLOYER

06/16/2023

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%)	CHEMSTREAM	Acidizing	Hydrochloric Acid	7647-01-0	28.00%
ACI-150	CHEMSTREAM	Acid corrosion inhibitor	Methanol	67-56-1	60 - 70%
	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, 00001	Proprietary	25.00%
	CHEMSTREAM		Butene, polymer - 00001	Proprietary	25.00%
	CHEMSTREAM		Ethoxylated alcohols	68551-12-2	5.00%
Clearal 268a	CHEMSTREAM	Biocide	Glutaraldehyde	111-30-8	10-20%
	CHEMSTREAM		Didecyl dimethyl ammonium chloride	7173-51-5	3.00%
	CHEMSTREAM		Quaternary Ammonium Compounds	68424-85-1	<3.00%
	CHEMSTREAM		Ethanol	64-17-5	<1.5%
	CHEMSTREAM		Non-hazardous substances	Proprietary	>80
	CHEMSTREAM		Bis(HexaMethylene Triamine		
StimStream SC 398	CHEMSTREAM	Scale Inhibitor	Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00%
Ammonium Persulfate	CHEMSTREAM	Breaker	Ammonium Persulfate	7727-54-0	100.00%

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06/16/2023

OPERATOR: CNX GAS COMPANY LLC

WELL NO: WDTN5RHSM

PAD NAME: WDTN5

REVIEWED BY: SARAH WEIGAND

SIGNATURE: *Sarah Weigand*

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR

DEP Waiver and Permit Conditions

At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR

DEP Waiver and Permit Conditions

At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR

DEP Waiver and Permit Conditions

At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

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