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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, August 29, 2022  
WELL WORK PERMIT  
Horizontal 6A / New Drill

CNX GAS COMPANY LLC  
1000 CONSOL ENERGY DR  
CANONSBURG, PA 15317

Re: Permit approval for WDTN19CHSM  
47-061-01902-00-00

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: WDTN19CHSM  
Farm Name: CNX GAS COMPANY LLC  
U.S. WELL NUMBER: 47-061-01902-00-00  
Horizontal 6A New Drill  
Date Issued: 8/29/2022

## PERMIT CONDITIONS

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

### CONDITIONS

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

## PERMIT CONDITIONS

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

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: WDTN19CHSM Well Pad Name: WDTN19

3) Farm Name/Surface Owner: CNX Gas Company LLC Public Road Access: Wise Run Road/CR6

4) Elevation, current ground: 1264.30 Elevation, proposed post-construction: 1264.30

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

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

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target formation is Marcellus Shale @ 7880' - 7930'TVD, 50' thick, expected formation pressure ~4600 psi

8) Proposed Total Vertical Depth: 7913'TVD at TD, depending on formation dip

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

10) Proposed Total Measured Depth: 23,423' MD at TD

11) Proposed Horizontal Leg Length: 14,330'

12) Approximate Fresh Water Strata Depths: 125', 584', 845', 933', 938'

13) Method to Determine Fresh Water Depths: Offset well Information

14) Approximate Saltwater Depths: 2,419', 2,509', 3,139'

15) Approximate Coal Seam Depths: 708'-711', 966'-972', 1029-1031, 1054'-1059', 1060'-1068'

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

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

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



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	75	46	96 / CTS
Fresh Water	13.375	New	J-55	54.5	1,135	1,106	960 / CTS
Coal	13.375	New	J-55	54.5	1,135	1,106	960 / CTS
Intermediate	9.625	New	J-55	36	2,960	2,931	1,025 / CTS
Production	5.5	New	P-110	23	23,423	23,394	4,735 / TOC @ 1,550'
Tubing	2.375	New	J-55	4.7	Above assumes RF = 29'	TBD	N/A
Liners	NA						

Kenneth Greynolds  
Digitally signed by Kenneth Greynolds  
DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas  
Date: 2022.08.02 15:22:51 -0400

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	16,490	~11,000	Class A or H	1.10
Tubing	2.375	N/A	0.190	7,700	N/A	N/A	N/A
Liners							

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By OCG

Kind:	N/A			
Sizes:				
Depths Set:				

WW-6B  
(10/14)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_

OPERATOR WELL NO. WDTN19CHSM

Well Pad Name: WDTN19

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 casing. Note that there are no known mineable coal seams in this area. Air drill 12-1/4" hole. Run and cement 9-5/8" intermediate casing. Air drill 8-3/4" production hole to curve KOP (this section is typically directionally drilled with a slant/tangent profile for anti-collision and for lateral spacing). Displace hole with 12.0-12.8 ppg SOBM. Drill 8-1/2" curve from KOP to landing point. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in Marcellus target window). Perform clean-up cycle to condition well. Run and cement 5-1/2" production casing. Suspend well and skid to next well or RDMO drilling rig.

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

Run CBL to ~60 degrees in the curve and back to surface to determine production casing TOC. Test production casing and toe prep well. MIRU stimulation/hydraulic fracturing equipment. Fracture well by pumping required number of stages utilizing plug-and-perf method. Max anticipated treating pressure is ~11,000 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): 21.0

22) Area to be disturbed for well pad only, less access road (acres): 12.6

23) Describe centralizer placement for each casing string:

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

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

Fresh water/coal string: Class A cement with 1%-3% CaCl<sub>2</sub> and 1/4 pps cello-flake/LCM. Intermediate string: Class A cement with 0%-2% CaCl<sub>2</sub> 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 TOOH to run casing (may require mist and/or soap to clean the hole). For the production hole - once at TD, circulate at max flowrate with max rotation until the shakers clean-up (typically requires multiple bottoms-up). For the production casing - once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.

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\*Note: Attach additional sheets as needed.

**WDTN19 Cement Additives**

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

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WV Department of  
Environmental Protection

09/02/2022





**DRILLING WELL PLAN**  
**WDTN-19C-HSM (Marcellus HZ)**  
**Marcellus Shale Horizontal**  
**Monongalia County, WV**

**WDTN-19C-HSM SHL**

**N 435702.0472, E 1764883.50445 (NAD27)**

**Ground Elevation**

**1264' GL Elevation**

**WDTN-19C-HSM LP**

**N 433893.6687, E 1762892.1666 (NAD27)**

**Azimuth**

**325°**

**WDTN-19C-HSM BHL**

**N 422154.9048, E 1771111.7377 (NAD27)**

WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	Tops (RKB)		MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
				MD	MD					
	24"	20" L/S	Soil and Rock			AIR	To Surface	N/A	N/A	Stabilize surface fill/soil
			<b>Conductor</b>	129	129					
	17-1/2"	13-3/8" 54.5# J-55 BTC	<b>DFGW</b>		208	AIR / FW Mist	15.8 ppg Class A + 1% to 3% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface	Centralize every 3rd joint from shoe to surface Bow spring centralizers	Ensure the hole is clean at section TD	Set through fresh water zones Set through coal zones Cemented to surface  13-3/8" shoe NOT to be set deeper than ground level
			Waynesburg Coal		708					
			Pittsburgh Coal (Solid)		1,060					
			<b>FW/Coal Casing</b>	1,135	1,135					
	12-1/4"	9-5/8" 36.0# J-55 LTC	Upper Freeport Coal		1,644	AIR / Soap	15.8 ppg Class A + 0% to 2% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface	Centralize every 3rd joint from shoe to surface Bow spring centralizers	Soap the hole as needed and ensure the hole is clean at section TD	Set through potential salt water zones Cemented to surface  Casing to be set ~200'-250' below the Big Injun base RECEIVED Office of Oil and Gas
			Lower Freeport Coal		1,685					
			Middle Kittanning Coal		1,808					
			Big Lime		2,419					
			Keener Sand		2,479					
			Big Injun Sand		2,509					
			Price Formation		2,690					
	<b>Intermediate Casing</b>	2,960	2,960							
	8-3/4" Tangent  8-1/2" Curve & Lateral	5-1/2" 20.0# P-110 VAR	50 Foot		3,079	AIR	15.0 ppg Class A 50:50 Poz with additives (retarder, suspension agent, gas block, defoamer, fluid loss, extender, etc.)  10% OH Excess Yield = 1.07  TOC @ >= 200' above 9-5/8" shoe	Centralize every joint from shoe to KOP - TOC  Single-piece/rigid bow centralizers	Once at TD, circulate at max flowrate with max rotation until shakers clean-up (typically requires multiple bottoms-up)  Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement	WV Department of Environmental Protection  Note: For all strings, actual centralizer placements may be changed due to hole conditions  Note: For all strings, actual cement blends may vary slightly depending upon service company utilized
			Gordon		3,139					
			Fifth		3,304					
			Bayard		3,351					
			Elks		5,289					
			Rhinestreet		7,406					
Cashaqua				7,672						
Burkett				7,788						
Tully				7,815						
Hamilton				7,851						
Marcellus				7,880						
<b>Production Casing</b>			23,422	7,913						

LP @ +/- 7913' TVD

8-3/4" x 8-1/2" Hole - Cemented Long String  
5-1/2" 20.0# P-110 VAR

+/- 14331' Lateral

TD @ +/- 23422' TVD



WW-9  
(4/16)

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. WDTN19CHSM

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

**FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN**

Operator Name CNX Gas Company LLC OP Code 494458046

Watershed (HUC 10) Dunkard Creek Quadrangle Wadestown

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: N/A

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 \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain N/A no pits used)

Will closed loop system be used? If so, describe: Yes, rig pit system with centrifuges for barite recovery and maximizing fluid reuse.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical air from sub-surface to curve kick-off point (KOP).

-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 Attachment

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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.

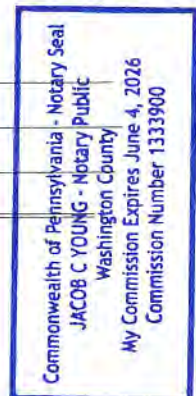
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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

Subscribed and sworn before me this 26<sup>th</sup> day of July, 2022  
Jacob C Young Notary Public

My commission expires 6/4/2026



09/02/2022



A	B	C	D	E	F	G	H
Type of Waste	Disposal Company Name	Disposal Location	Disposal Location Co	Well ID / Name	Permit # (if applicable)	Accepted Waste Streams	Disposal Company Contact Information
2 Non-Haz Disosal	Apex Sanitary Landfill (Apex Environmental)**	11 County Road 78 Amsterdam, Ohio 43903	N/A	Apex Environmental Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Solidification Services, Municipal Solid Waste **Ohio "TENORM" - requires Radium 226/228 analysis by 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.	Landfill Office: (740) 543-4389  Dave Brown 412-848-1828, dbrown@ApexLF.com
3 Brine Injection - Treatment	Appalachian Water Services (Nuverra Environmental Solutions)	2326 McClellandtown Road, Masonstown, PA 15461	39.853056, -79.924786	Appalachian Water	WMGR GP No. 1235W001 WQM Industrial Waste Permit No.: 2608201 A-2	Brine (Produced Water) and oily water from compressor stations.	Rob Bealko 304-291-0383 Office 304-282-8814 Cell rob.bealko@nuverra.com  Office: 740-609-3800
4 Brine Injection - Treatment	Austin Master Services	801 N 1st St, Martins Ferry, OH 43935	40.105200, - 80.711630	N/A	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
5 RW & TENORM	Austin Master Services	801 N 1st St, Martins Ferry, OH 43935	40.105200, - 80.711630	N/A	N/A	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.	Jack Bement CEO Austin Master Services LLC 355 Circle of Progress Pottstown PA, 19464 Ph:(585) 704-2744 Fax: 484 624-5506
6 RW & TENORM	Belmont Solids Control	78405 Cadiz-New Athens Rd. Cadiz, OH 43907	40.238830, - 81.003300	N/A	N/A	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.	Dave Brown 412-848-1828 Mark Winsap 330-692-0423; dbrown@ApexLF.com
7 Brine Injection - Treatment	Cambrian Well Services - Kemble (Orr Petroleum Corporation)	Zanesville, Muskingum County, Perry Township, OH	39.974954, -81.845389	Kemble 1-D (SWIW#28)	34-119-2-8780	Brine (Produced Water)	Bob Orr 740-796-6495 614-648-8898 orropetro@gmail.com
8 Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.087460, - 82.047918	BPC01	VAS2D9608BUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
9 Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.222201, - 81.959987	N26	VAS2D9308BUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
10 Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.184198, - 82.082549	U7	VAS2D9268BUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
11 Brine Injection - Treatment	CNX Resources Corporation	Russell County, VA	37.120547, - 81.961222	AW114A	VAS2D9708RUS	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
12 Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.147934, - 82.075320	Ball Well	VAS52D9218BUC	CNX Owned UIC SWIWs: Frac water, brine, produced water	Contact Ops Groups
13 Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Warren Township, OH	39.426278, - 81.502379	Order No. 2015-452; Vocational School No. 2 Well; SWIW No. 20	API # 34-167-2-9543-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC  Office: 740.371.5078 ext. 206   Cell: 304.588.0936
14 Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Warren Township, OH	39.425172, - 81.507800	Order No. 2015-582; Heinrich Unit #2 Well, SWIW No. 22	API # 34-167-2-9464-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC  Office: 740.371.5078 ext. 206   Cell: 304.588.0936
15 Brine Injection - Treatment	DeepRock Disposal Solutions	Washington County, Warren Township, OH	39.429867, - 81.511020	Order No. 2015-581; Heinrich Unit #1 Well, SWIW No. 21	API # 34-167-2-9445-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC  Office: 740.371.5078 ext. 206   Cell: 304.588.0936
16 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. 26	API # 34-167-2-9766-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC  Office: 740.371.5078 ext. 206   Cell: 304.588.0936

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A	B	C	D	E	F	G	H	
17	RW & TENORM	Empire Fluid Solutions (Formerly Troo Clean)	41540 National Road Belmont, OH 43718	40.0687, -81.04963	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM) material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab. Non-radioactive material & radioactive material handling (NORM/TENORM), solids separation, material downblending, tank cleaning, radiological sampling/testing analysis/lab. Liquid/semi-solids treatment and separation for waste disposal.	Orin David Orin david@trooclean.com 918-413-6426
18	Brine Injection - Treatment	Environmental Energy Services LLC (Force, Inc.)	Muskingum County, Perry Township, OH	39.973643, -81.825727	Pattison Trust No. 1-D (SWIW #30)	API # 34-119-2-8803	Brine (Produced Water)	Bryan Force Mobile: 412.289.0069 Office: 724.465.9399 bforce@forceincorporated.com
19	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 Office: 724.465.9399 bforce@forceincorporated.com
20	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
21	Brine Injection - Treatment	Gas Field Services, Inc.	200 Camp Creek Road, Camp Creek, WV 25820	37.495138, -81.105161	Camp Creek Disposal Well	UIC: UIC2D0550319 API: 47-055-00319	Class II injection fluids that are in connection with conventional oil or gas production and may be commingled with waste waters from gas plants unless those waters are classified as hazardous wastes at the time of injection.	Zachery Reed zachery4@yahoo.com PO Box 555, Rosedale, VA 24280 Phone: (776) 850-2323
22	Brine Injection - Treatment	Greene County Water Treatment, Inc.	401 Jefferson Rd. Waynesburg, PA 15370	39.908611, -80.141111	Waynesburg Facility	WMGR123SW010	Oil and Gas Fluids with minimal oil and solids present	Gary Carpenter 267-246-6176 JRBGCarpenter@aol.com Office: (330) 270-9900
23	RW & TENORM	Ground Tech LLC	240 Sinter Court, Youngstown, OH 44510	41.113260, -80.674500	N/A	N/A	Non-radioactive material, low level radioactive material, (NORM/TENORM), and high level TENORM material handling, storage, downblending, transport/loading to rail, tank cleaning, radiological sampling/testing analysis/lab.	Larry Chamberlain 330-398-5913 lchamberlain@lwc-inc.com
24	Brine Injection - Treatment	Hydro Recovery	572 Route 18 Burgettstown, PA 15021	40.422874, -80.426125	Burgettstown Facility	WMGR123SW019	Oil and Gas Fluids with minimal oil and solids present	Ashley Cromley 570-394-4450 Ashley.cromley@hydrorecovery.com
25	Non-Haz Disosal	Mascaro & Sons- Wetzel Co LF	1521 Wetzel County Landfill Rd. New Martinsville, WV 26155	N/A	Wetzel County Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings/Frac Sand, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum)Construction & Demolition Waste, Industrial Waste, Process Waste, Municipal Solid Waste	Terry Gadd terry.gadd@jpmascaro.com, 610-636-4133
26	RW & TENORM	Mud Masters LLC	64054 Wintergreen Rd Lore City, OH 43725	40.027531, -81.449219	N/A	N/A	Non-radioactive material, low level radioactive material (NORM/TENORM), and high level TENORM material handling, storage, and transport. (TENORM downblending of low level TENORM material (< 85 pCi) on-site. High level TENORM (< 85 pCi) materials will be directed to Austin Master Services in Martins Ferry, Ohio by Ground Tech).	Paul Williams 740-995-0684 mudmasterspw@gmail.com  Billing Address: 739 Southgate Pkwy, Cambridge, Ohio 43725
27	Non-Haz Disposal	MXI Environmental Services LLC	2619 Old Trail Road Abingdon, VA 24210				Spencer to complete	John Twiddy johnt@mxinc.com 276-628-6636 ext. 202; 276-608-0003 Cell
28	Non-Haz Disosal	Noble Environmental Landfill (Former Westmoreland Waste)	111 Conner Lane, Belle Vernon, PA 15012	N/A	Noble / Westmoreland Sanitary Landfill		Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Friable Asbestos, Non-Friable Asbestos, Municipal Solid Waste	Customer Service: (724) 929-7694
29	RW & TENORM	Pressure Tech	7675 East Pike Norwich, Ohio 43767	39.97415, -81.844765	N/A	N/A	Non-TENORM wastes including cement water and oil or water based drilling mud only. Are not to accept waste that is known to have elevated levels of TENORM or compressor station water.	Bob Orr: 614-648-8898
30	Oily & Oily Water Treat - Recycle	Quala	515 Industrial Blvd., Wooster, OH 44691	N/A	N/A	N/A	Non-hazardous wastewater, transportation, treatment and disposal facility. Also offer transportation and solidification services.	330-264-8090 (O) jstater@quala.us.com
31	Non-Haz Disosal	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 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.	Jack Palermo - jpalermo@republicservices.com, 330-536-7575
32	Non-Haz Disosal	Republic Services - Imperial (Allied Waste of PA)	11 Boggs Rd, Imperial, PA 15126	N/A	Imperial Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings/Frac Sand, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Friable Asbestos, Non-Friable Asbestos, Municipal Solid Waste	Jack Palermo - jpalermo@republicservices.com, 330-536-7575
33	Non-Haz Disosal	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

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A	B	C	D	E	F	G	H	
34	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
35	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
36	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
37	Oily & Oily Water Treat - Recycle	Spirit Services, Inc.	173 Industrial Park Ln., Beech Bottom, WV 26030	N/A	N/A	N/A	Approved for non-haz water treatment of oil & water mix. Also offer transportation and solidification services. Capable of other types of waste disposal and handling with prior Environmental and Supply Chain approval.	1-866-670-9034 Joe Staton: 717-360-7916 Office: 301-223-1251 Fax: 301-223-1253 jstaton@spiritservices.com
38	Oily & Oily Water Treat - Recycle	Valcor Environmental Services LLC	515 N. 8th Ave, Huntington, WV 25201	N/A	N/A	N/A	Approved for non-haz water treatment of oil & water mix, oil, oil filters, and antifreeze only.	Corporate Number: 734-442-2353 Guy Turturice gturturice@valcor.com 304-963-1563 Steve Atkinson SATkinson@valcor.com
39	Non-Haz Disosal	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
40	Non-Haz Disosal	Waste Management - Arden Landfill	200 Rangos Ln, Washington, PA 15301	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
41	Non-Haz Disposal	Waste Management - Chestnut Ridge	385 Hair Ln, Blountville, TN 37617				Spencer to complete	Travis Maryanski tmaryanski@wm.com (865) 388-7279 Cell (205) 652-8137 Tech Service
42	Non-Haz Disosal	Waste Management - Evergreen Landfill	1310 Luciusboro Rd, Blairsville, 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, 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
43	Non-Haz Disosal	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
44	Non-Haz Disosal	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
45	Non-Haz Disosal	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
46	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
47	Non-Haz Disosal	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
48	Non-Haz Disosal	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
49	Non-Haz Disosal	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
50	Non-Haz Disosal	Waste Management - Valley Landfill	6015 Pleasant Valley Rd, Irwin, PA 15642	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

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**CNX Gas Company LLC**

Proposed Revegetation Treatment: Acres Disturbed 21.0 Prevegetation pH 6.5

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

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch hay or straw @2 Tons/acre

**Seed Mixtures**

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

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: Kenneth Greynolds  
Digitally signed by: Kenneth Greynolds  
DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas  
Date: 2022.07.21 09:16:35 -0400

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

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Title: \_\_\_\_\_

Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

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## WDTN19 Pad Frac - SOG Review

In accordance with WVDEP 35CSR8 Section 5.11, all known shallow oil and gas (SOG) wells have been identified within a 1000' buffer around the proposed WDTN19 pad. Any SOG well that falls within the Area of Review (AOR) has been reviewed and is provided in a list that includes API, Operator, Well Name, Well Number, Current Status, Total Depth, and Permit Date.

The Marcellus Shale of the Wadestown area is found at an approximate True Vertical Depth (TVD) of 7900'. In the Wadestown area, there were very few wells that have 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 WDTN19 Pad, due to the Hamilton and Tully being adequate frac barriers. However, if faulting exists, Marcellus frac could grow upward, with the fault acting as a conduit. Fortunately, very few faults are seen in the area and are believed to 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 poorly developed in the Wadestown area. For example, only one well tested the Benson in the area: 47-061-00341 was drilled to 5520' frac'd the Benson and then was plugged and abandoned. 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, giving us confidence that the frac is contained below the Tully Limestone.

Only one Marcellus well lies within the 1000' buffer around the proposed WDTN19 Pad, the WDTN5N Marcellus well (47-061-01826). The WDTN19R is the closest proposed well and will parallel the WDTN5N once 1000' spacing is achieved.

Figure 1. 98 wells lie within a 1000' buffer around the WDTN19 Pad that penetrate the Big Injun Sand or deeper horizons. The deepest well is 5520' and tested the Benson Sand, but I snow P&A. All other wells are less than 3764' deep, producing from the Bayard Sand and/or shallower formations. No known SOG Communication events have occurred in this area.





WDTN19 Pad Frac SOG Review

Tuesday, April 12, 2022

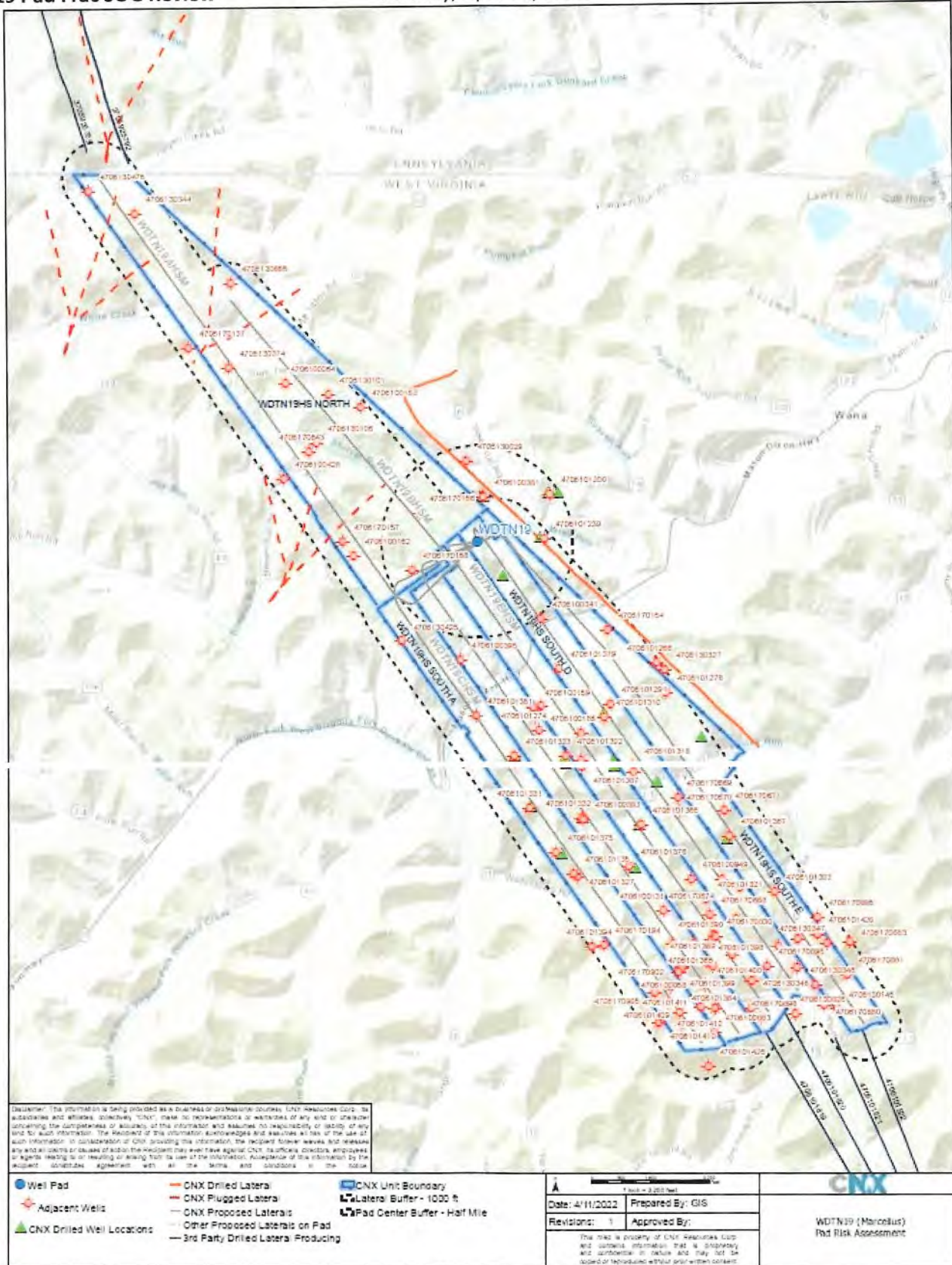




Figure 2. List of 98 wells seen in Figure 1. Two groups are shown below.

The first group of 42 wells, one of which is active and the remaining are Inactive.

Api10	WellName	CurrentOperator	CompletionFormatio	CurrentStatus	CurrentStatusDa	PermitDa	SpudDa	CompletionDa	OnProductionDa	TotalDep.1
4706100428	SHRIVER 5114	PILLAR ENERGY LLC	<Null>	ACTIVE	12/10/1921	<Null>	<Null>	1/1/1997	1/1/1997	<Null>
4706130344	F M STAGGERS	PITTSBURGH & WV GAS	BIG INJUN (PRICE&EQ)	INACTIVE	<Null>	<Null>	4/11/1918	6/3/1918	<Null>	2185
4706130475	FRED HENNEN	CARNEGIE NATURAL GAS CO	BIG INJUN (PRICE&EQ)	INACTIVE	<Null>	<Null>	11/12/1918	8/23/1919	<Null>	2880
4706170031	SARAH E EDDY	MCDERMOTT, JOSEPH H.	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	3021
4706130346	ELIHU EDDY	SOUTH PENN OIL (S. PENN NAT. GAS)	GORDON	INACTIVE	<Null>	<Null>	<Null>	1/21/1941	<Null>	3160
4706130145	A J CARROTHERS HRS	H L TENNANT	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	3167
4706170030	SARAH E EDDY	MCDERMOTT, JOSEPH H.	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	3199
4706130665	THOMAS WHITE HEIRS	(N/A)	BIG INJUN (PRICE&EQ)	INACTIVE	<Null>	<Null>	6/8/1926	10/6/1927	<Null>	3204
4706130347	ELIHU EDDY	SOUTH PENN OIL (S. PENN NAT. GAS)	<Null>	INACTIVE	<Null>	<Null>	<Null>	11/14/1912	<Null>	3235
4706130348	ELIHU EDDY & D L CROSS	SOUTH PENN OIL (S. PENN NAT. GAS)	<Null>	INACTIVE	<Null>	<Null>	<Null>	3/19/1920	<Null>	3302
4706130327	MICHAEL BARR	HOPE NATURAL GAS CO.	<Null>	INACTIVE	<Null>	<Null>	8/3/1910	11/26/1910	<Null>	3324
4706130425	E E BELL	PITTSBURGH & WV GAS	FIFTY-FOOT	INACTIVE	<Null>	<Null>	5/29/1913	8/18/1913	<Null>	3354
4706130026	A J CARROTHERS	SOUTH PENN OIL (S. PENN NAT. GAS)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	3365
4706130374	LUCINDA SIX	GLOVIS ROY W	<Null>	INACTIVE	<Null>	<Null>	<Null>	8/1/1925	<Null>	3465
4706130101	ERNEST BELL	MACKEY, ARTHUR D.	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	3492
4706130106	WM HAINES	MACKEY, ARTHUR D.	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	3521
4706170154	MARY A EAKIN	PHILADELPHIA COMPANY, THE	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170881	ELIHU EDDY	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170883	ELIHU EDDY HRS	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170895	M J BREWER	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706171010	ELIHU EDDY HRS	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706130029	M C & C C WISE HEIRS	H L TENNANT	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170157	HENRY W HAINES	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170669	J S CROSS	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170674	P EDDY	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170680	SOUTH PENN OIL	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170685	SOUTH PENN OIL	SOUTH PENN OIL (S. PENN NAT. GAS)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170698	ELIHU EDDY HRS	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170902	ERVINE TENNANT	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170905	ERVINE TENNANT	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170670	J S CROSS	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170671	J S CROSS	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170897	ELIHU EDDY	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170901	ERVINE TENNANT	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706130218	HARRY L TENNANT	HARRY L TENNANT	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170137	SIMON L WHITE	PHILADELPHIA COMPANY, THE	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170156	GEORGE W SHRIVER	PHILADELPHIA COMPANY, THE	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170158	JASPER SHRIVER	PHILADELPHIA COMPANY, THE	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170194	M J GARRISON	SOUTH PENN OIL (S. PENN NAT. GAS)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170643	WILLIAM HAINES	PHILADELPHIA OIL CO	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170886	MARY E MYERS	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170888	MARY E MYERS	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>





The second group of 56 wells, all of which are P&A. Only one was well deeper than 3746', which was a 5520' deep Benson test (47-061-00341).

4706101200	CNGP 5124	<Null>	P & A	7/8/1995	7/24/1995	7/4/1995	7/8/1995	7/1/1995	970
4706101428	VENT 29	NORTHWEST FUEL DEV INC	P & A	1/2/2002	12/4/2001	<Null>	7/31/2006	7/1/2002	1145
4706101323	WE WV 5356	CONSOL	P & A	<Null>	12/10/1998	11/23/1998	1/1/2001	1/1/2001	1208
4706101389	MCDERMOTH 1	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	5/8/2000	5/4/2000	5/16/2000	8/9/2000	<Null>
4706101391	CHSLER, ROY D. F2-445	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	6/15/2000	6/12/2000	6/16/2000	7/14/2000	<Null>
4706101394	MOON OIL CO. 1	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	2/15/2000	2/9/2000	3/7/2000	3/7/2000	<Null>
4706100083	TENNANT, GEORGE F2-451	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	2/19/1937	6/28/2001	10/8/1936	9/8/2001	<Null>	3231
4706100383	TJ COWELL 2756	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	7/22/1989	1/19/1999	10/23/1912	3/12/1999	1/1/1979
4706100381	SANDERS, THOMAS, ETUX F2-196	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	7/30/1997	6/9/1997	7/8/1997	7/30/1997	<Null>	3300
4706101327	GARRISON HEIRS	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	3/26/1999	3/25/1999	3/26/1999	4/6/1999	<Null>
4706100183	WISE, M. M. 5077	(N/A)	P & A	<Null>	6/26/1946	3/19/1953	12/15/1913	5/13/1946	<Null>
4706101318	TJ COWELL 2713	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	10/7/1998	8/20/1998	9/21/1912	10/7/1998	<Null>
4706101409	WOODRUFF, MARY JANE F2-469	ERP FEDERAL MINING COMPLEX LLC	P & A	5/29/2001	5/21/2001	<Null>	<Null>	<Null>	3430
4706101401	YOST, GENE F2-447	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	2/8/2001	2/8/2001	2/19/2001	3/6/2001	<Null>	3440
4706100162	SHRIVER, RIA & SUSANNA 3711	A V COMPANY	P & A	<Null>	10/8/1969	10/8/1969	12/1/1943	<Null>	3442
4706101371	AMMONS, DONZEL F2-441	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	8/30/1999	8/24/1999	9/5/1999	10/19/1999	<Null>	3450
4706100381	SHRIVER, S. 2250	DIVERSIFIED ENERGY	P & A	<Null>	12/10/1921	<Null>	7/25/1911	1/1/1979	3452
4706101379	WV 5252	DIVERSIFIED ENERGY	P & A	<Null>	12/7/1999	11/22/1999	4/3/2000	4/3/2000	10/1/2001
4706100131	STILES, T. S. 2	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	10/3/1974	12/3/1999	9/11/1941	1/24/2000	<Null>
4706100064	HENNEN, WILLIAM O. 1609	(N/A)	P & A	<Null>	1/1/2000	1/1/2000	1/16/1928	4/4/1935	<Null>
4706101291	EASTERN ASSOC. COAL P	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	1/22/1998	11/25/1997	9/23/1946	1/22/1998	<Null>
4706100341	EAKIN, C. L. 11851	EASTERN GAS TRANSMISSION AND STORAGE, INC	P & A	<Null>	4/10/1975	4/29/1975	<Null>	4/1/1975	<Null>
4706101266	EACC-F2-220	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	4/11/1997	2/3/1997	2/27/1997	4/1/1997	<Null>
4706101378	WEWV 05471	CONSOL	P & A	<Null>	12/6/1999	11/1/1999	<Null>	4/1/2001	4/1/2001
4706101400	SOUTH PENN 2	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	12/26/2000	12/21/2000	1/3/2001	2/12/2001	<Null>
4706100119	BREWER, J. M. - HEIRS 1	(N/A)	P & A	<Null>	12/10/1921	7/28/1960	<Null>	<Null>	<Null>
4706100186	HELMICK, EDNA M. 1	(N/A)	P & A	<Null>	1/26/1947	1/28/1947	1/11/1947	<Null>	<Null>
4706100395	SAGO, DAVID K. 7764	EASTERN GAS TRANSMISSION AND STORAGE, INC	P & A	<Null>	1/13/2000	1/7/2000	9/11/2001	9/21/2001	1/1/1979
4706101278	(5007) F2-215	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	8/20/1997	7/10/1997	7/13/1997	8/20/1997	<Null>	<Null>
4706101303	CHSLER, ERIC D. F2-442	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	3/24/1998	2/13/1998	2/10/1998	3/24/1998	<Null>	<Null>
4706101310	WE WV05249	DIVERSIFIED ENERGY	P & A	4/15/1998	3/24/1998	<Null>	<Null>	1/1/2001	1/1/2001
4706101322	WE WV 5357	CONSOL	P & A	<Null>	12/1/1998	11/23/1998	<Null>	1/1/2001	1/1/2001
4706101332	COWELL, ARTHUR 5420	CONSOL	P & A	5/17/1999	5/7/1999	<Null>	1/1/2001	1/1/2001	<Null>
4706101364	HOWARD, KYLE F2-460	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	5/21/1999	5/5/1999	5/4/1999	6/25/1999	<Null>
4706101367	MILLER, JACKIE W JR 5422	CONSOL	P & A	6/11/1999	5/29/1999	<Null>	1/1/2001	1/1/2001	<Null>
4706101396	HOWARD, KYLE F2-459	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	10/17/2000	10/11/2000	10/13/2000	11/14/2000	<Null>
4706101398	HOWARD, KYLE F2-458	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	11/14/2000	11/2/2000	11/15/2000	12/21/2000	<Null>
4706101412	TENNANT 2	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	7/3/2001	6/28/2001	7/3/2001	8/3/2001	<Null>
4706101426	EASTERN ASSOCIATED COAL F2-475	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	11/16/2001	11/6/2001	12/18/2001	1/17/2002	<Null>
4706101274	HOPE 427-F2-194	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	7/8/1997	6/9/1997	6/11/1997	7/8/1997	<Null>
4706101331	WALLS, DONZEL 5419	CONSOL	P & A	<Null>	5/17/1999	5/7/1999	<Null>	1/1/2001	1/1/2001
4706101365	COLE, RICHARD F2-462	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	6/10/1999	6/6/1999	5/7/1999	7/20/1999	<Null>
4706101375	WEWV 05470	CONSOL	P & A	<Null>	11/2/1999	10/13/1999	<Null>	1/1/2001	1/1/2001
4706101385	PENN 4	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	3/3/2000	2/24/2000	2/23/2000	3/21/2000	<Null>
4706101390	HOWARD, KYLE F2-457	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	5/31/2000	5/30/2000	6/7/2000	7/5/2000	<Null>
4706101394	BAIRD, BETTY F2-446	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	9/8/2000	9/5/2000	9/8/2000	10/27/2000	<Null>
4706101413	MARSHALL, THOMAS F2-477	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	7/25/2001	7/25/2001	8/2/2001	8/30/2001	<Null>
4706100949	AMMONS, DONZEL F2-440	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	1/10/2000	1/5/1900	1/10/2000	1/21/2000	8/1/1988
4706101135	GARRISON HEIRS	A V COMPANY	P & A	<Null>	10/1/1994	9/30/1993	<Null>	10/1/1994	<Null>
4706101239	SHRIVER, HOWARD WEWV-5133	CONSOL	P & A	<Null>	5/3/1996	4/29/1996	<Null>	4/12/1996	1/1/1997
4706101309	WEWV05250 (3R1)	DIVERSIFIED ENERGY	P & A	<Null>	4/16/1996	3/24/1996	<Null>	4/1/2001	4/1/2001
4706101321	ELLEN EDDY 7	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	11/20/1998	10/30/1998	10/26/1998	12/10/1998	<Null>	<Null>
4706101366	BARTHOLEMEW, RICHARD A 5421	CONSOL	P & A	6/11/1999	5/26/1999	<Null>	1/1/2001	1/1/2001	<Null>
4706101399	SOUTH PENN 3	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	P & A	<Null>	12/26/2000	12/21/2000	12/26/2000	2/18/2001	<Null>
4706100058	WISE & TENNANT 5	YOST, GENE D. & SARA E.	P & A	8/23/1935	8/23/1935	7/29/1935	<Null>	<Null>	<Null>
4706100159	HARKER, JOHN O. 1	(N/A)	P & A	<Null>	12/10/1921	4/17/1962	<Null>	<Null>	<Null>



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

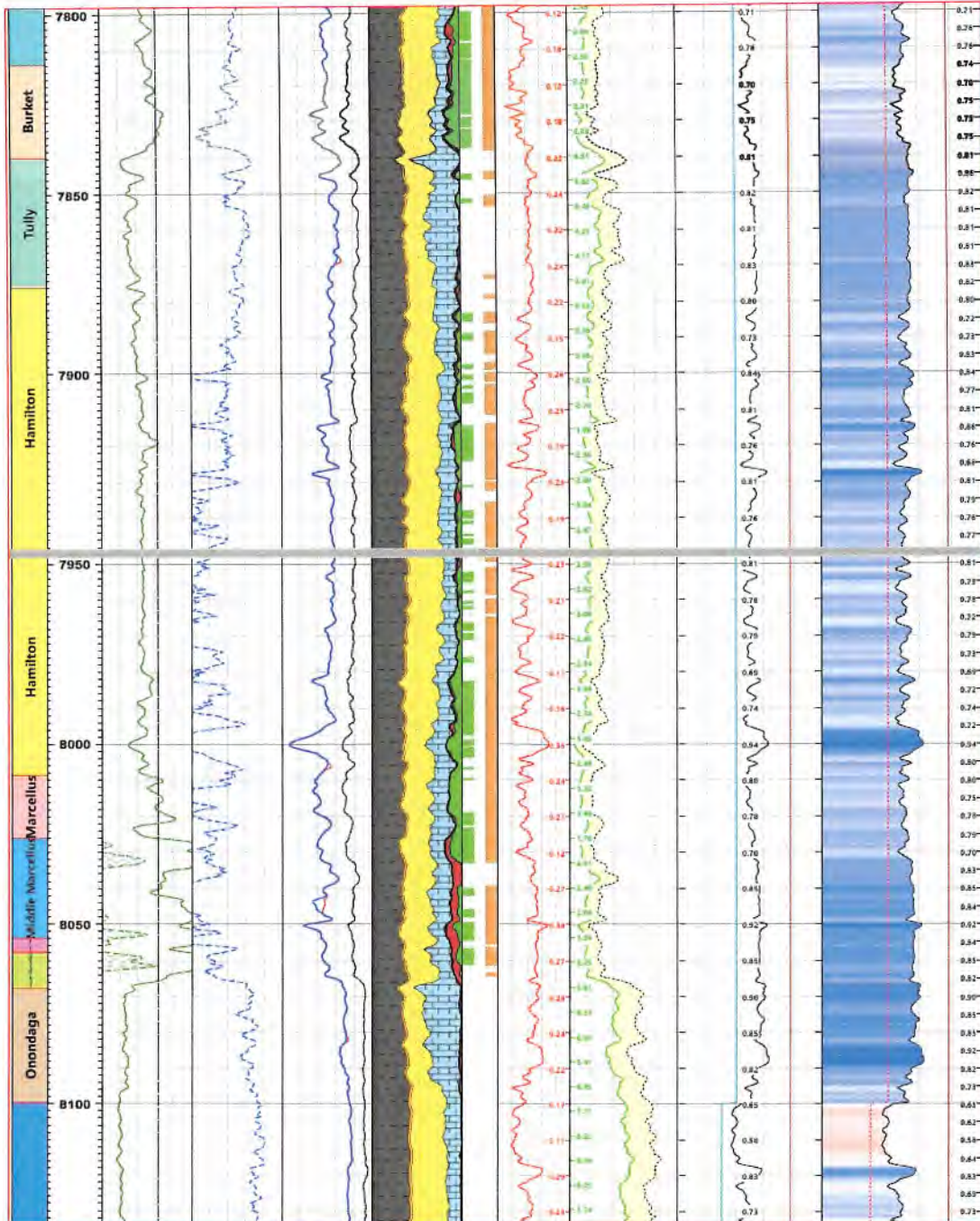
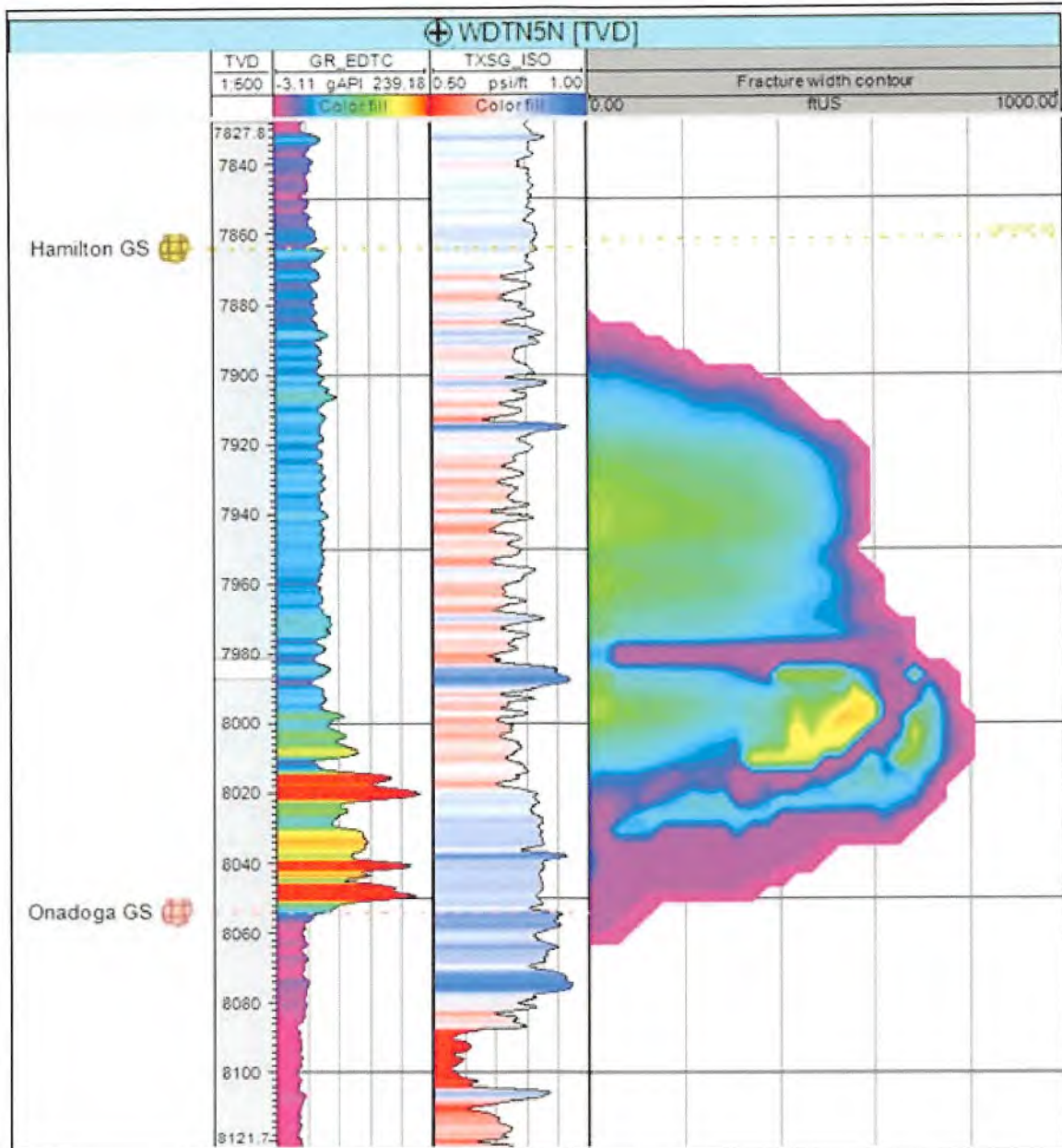


Figure 4. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the WDTN5B. Frac modeling yields a frac height of approximately 200'.







**Site Safety Plan for Wells WDTN19CHSM  
CNX Gas Company, LLC.**

RECEIVED  
Office of Oil and Gas  
JUL 27 2022  
WV Department of  
Environmental Protection



RECEIVED  
Office of Oil and Gas

JUL 27 2022

WV Department of  
Environmental Protection

# 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

Kenneth Greynolds

Digitally signed by Kenneth Greynolds  
DN: CN = Kenneth Greynolds email = Kenneth L.  
Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas  
Date: 2022.07.21 09:25:38 -0400

\_\_\_\_\_

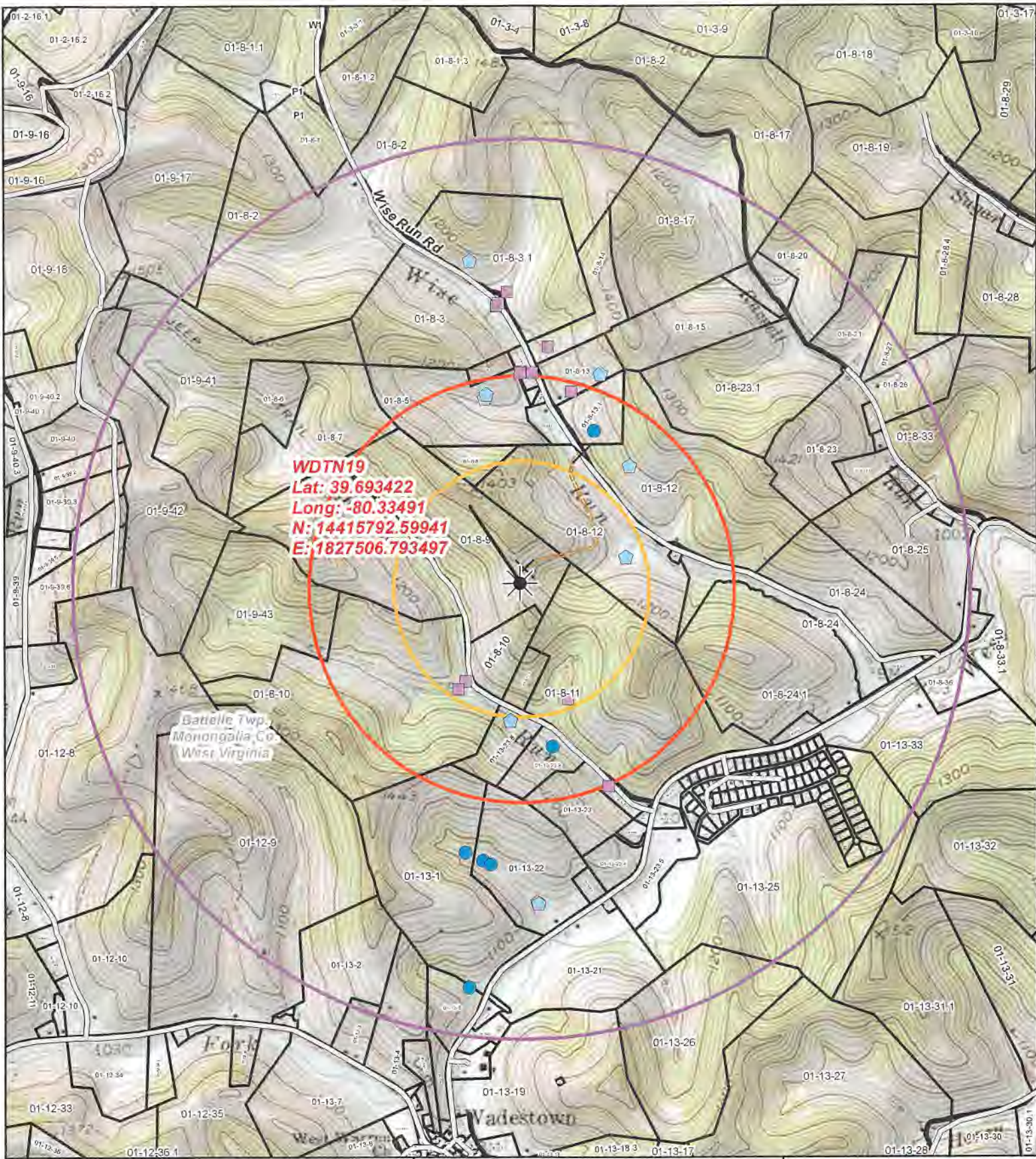
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Date: \_\_\_\_\_

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Office of Oil and Gas  
JUL 27 2022  
WV Department of  
Environmental Protection



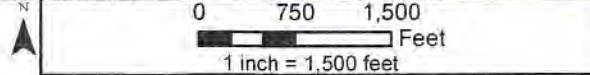


**WDTN19**  
 Lat: 39.693422  
 Long: -80.33491  
 N: 14415792.59941  
 E: 1827506.793497

Battle Twp.  
 Monongalia Co.  
 West Virginia

**Legend**

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



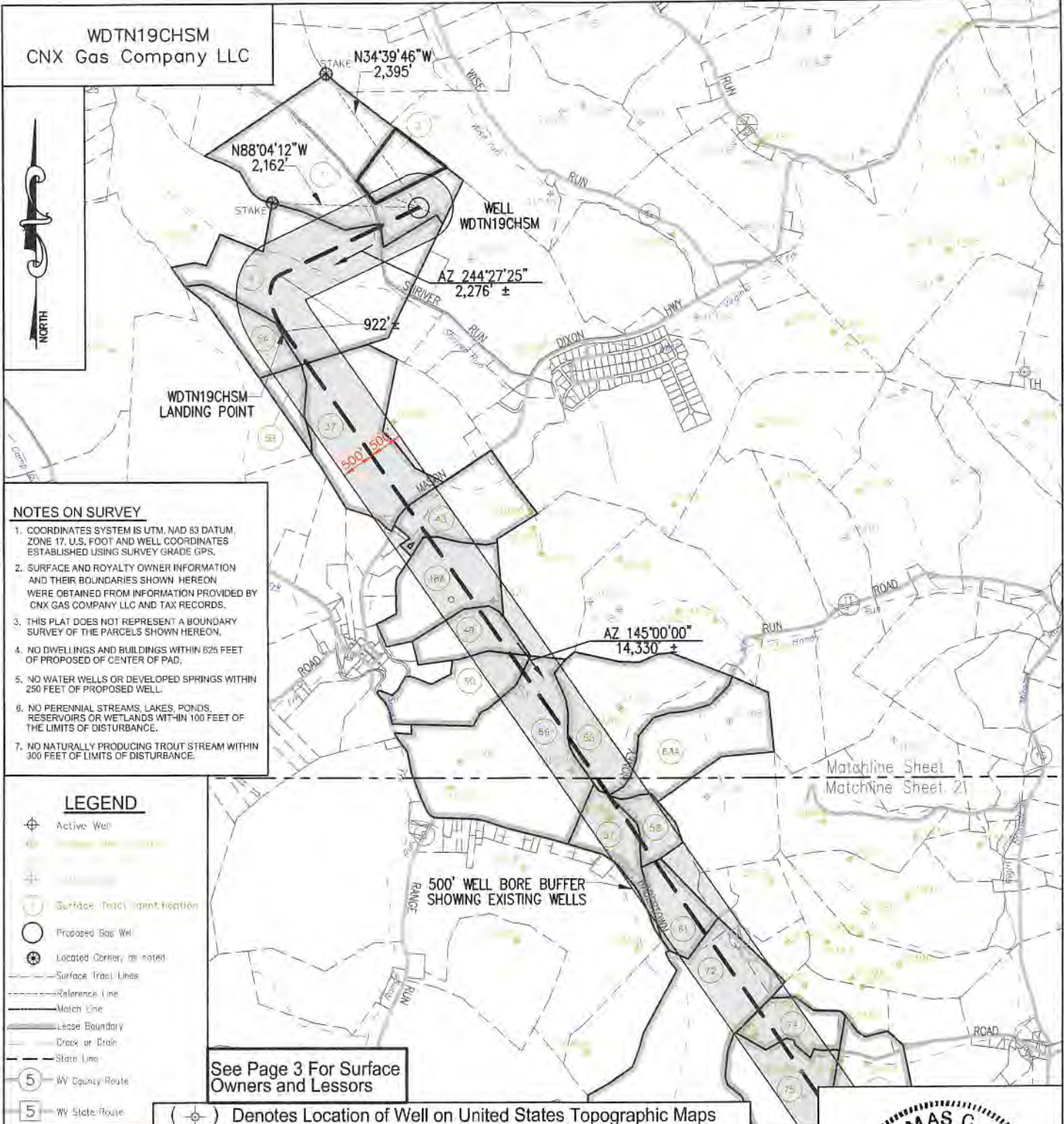
Original Date: 7/19/2022	Prepared By: GIS
Revision Date: 7/19/2022	Approved By: GIS

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**WDTN19**  
**Ground Water Map**  
 09/02/2022





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

- LEGEND**
- Active Well
  - Proposed Gas Well
  - Surface Tract Identification
  - Located Corridor, as noted
  - Surface Tract Lines
  - Reference Line
  - Match 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

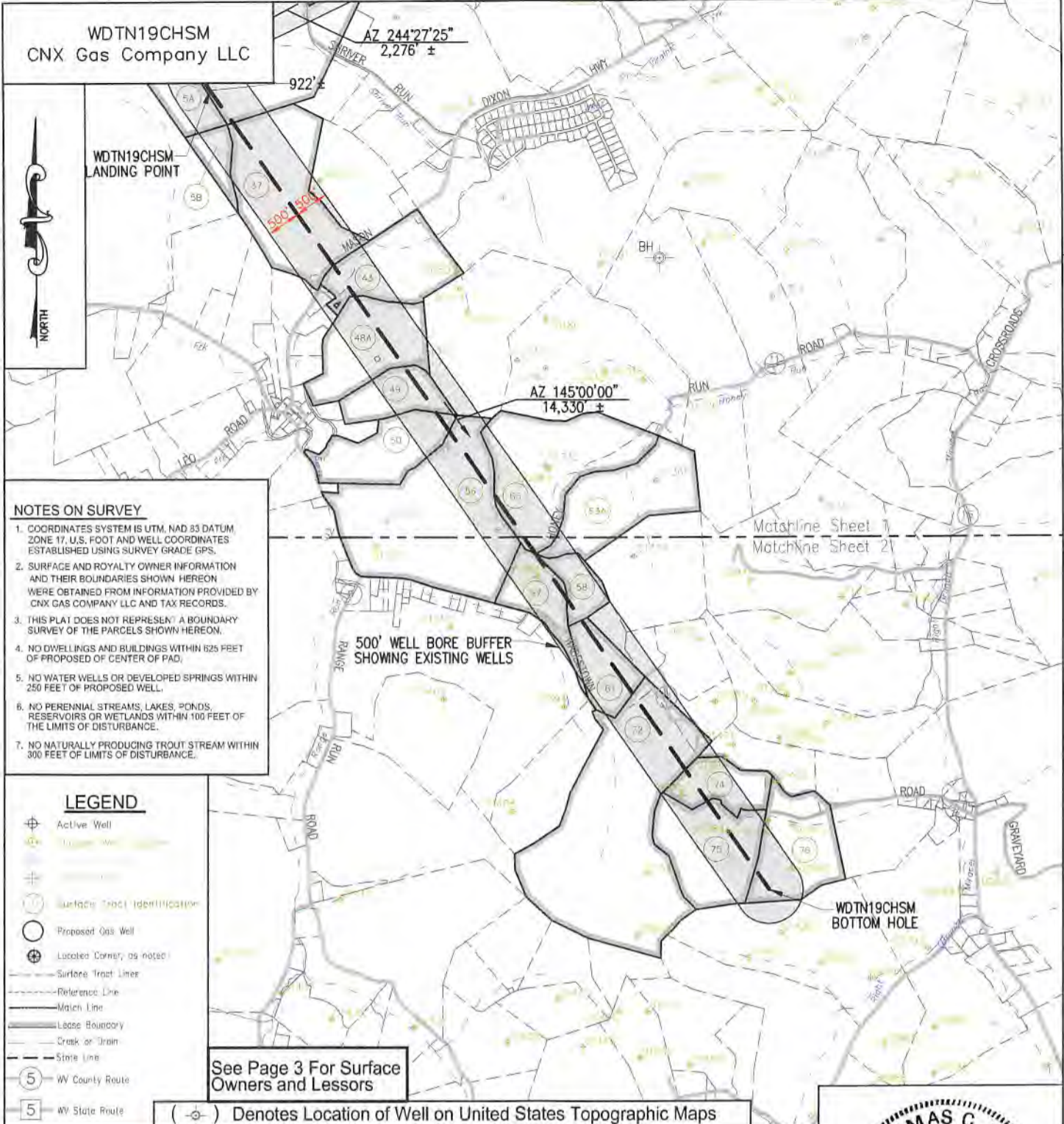


DATE: JULY 20 20 22  
OPERATORS WELL NO: WDTN19CHSM  
API WELL NO: 47 - 061 - 01902  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION ELEVATION: 1264.30' WATERSHED: Dunkard Creek QUADRANGLE: Wadestown  
 DISTRICT: Batelle COUNTY: Monongalia  
 SURFACE OWNER: CNX Gas Company LLC ACREAGE: 96.91 ±  
 ROYALTY OWNER: Three Rivers Royalty II, LLC, et al LEASE NO: 205228000 ACREAGE: 96.91 ±  
 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: 7,913'  
 WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora  
 ADDRESS: 1000 Consol Energy Drive ADDRESS: 1000 Consol Energy Drive  
 Canonsburg, PA 15317 Canonsburg, PA 15317



LATITUDE 39° 40' 00" BH: 5940'



LONGITUDE 80° 17' 30" BH: 3780'

- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
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  - NO DWELLINGS AND BUILDINGS WITHIN 125 FEET OF PROPOSED CENTER OF PAD.
  - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
  - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
  - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

- LEGEND**
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  - Proposed Gas Well
  - Surface Tract Identification
  - Proposed Gas Well
  - Located Corner, as noted
  - Surface Tract Lines
  - Reference Line
  - Match Line
  - Lease Boundary
  - Creek or Drain
  - State Line
  - WV County Route
  - WV State Route

See Page 3 For Surface Owners and Lessors

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*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: JULY 20 20 22  
OPERATORS WELL NO:  
API WELL NO  
47 - 061 - 01902  
STATE COUNTY PERMIT

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

LOCATION ELEVATION: 1264.30' WATERSHED: Dunkard Creek QUADRANGLE: Wadestown  
DISTRICT: Batelle COUNTY: Monongalia

SURFACE OWNER: CNX Gas Company LLC ACREAGE: 96.91 ±  
ROYALTY OWNER: Three Rivers Royalty II, LLC, et al LEASE NO: 205228000 ACREAGE: 96.91 ±

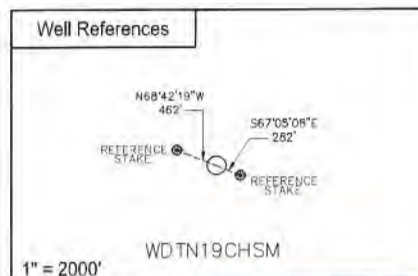
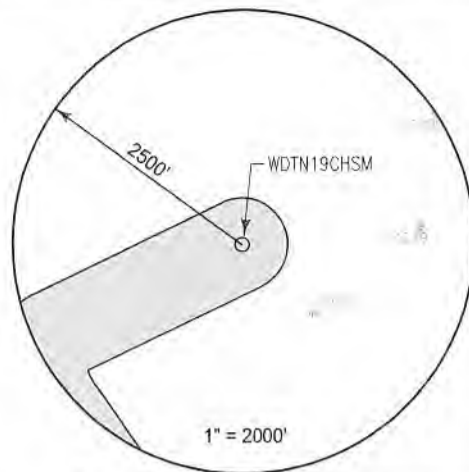
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 7,913'

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

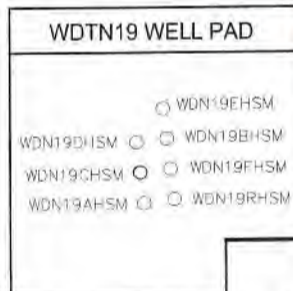
09/02/2022



TRACT ID	SURFACE OWNER	LESSOR	PIN
1	CNX Gas Company LLC	Hugh Kirkland	1-8-9
		Jack T. Livengood and Mary Jo Livengood	
		Barbara Haning	
		Diane H. Gonclaves, individually and co-executor of the Edward Lee North Estate	
		Patrick Lee North	
		Melissa Kubishke	
		Catherine C. Kirkland	
		Louise H. Berg, as Trustee of the Louise H. Berg Revocable Trust	
		Sherry Lemons	
		Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust	
		Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust	
		Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated 9/2/1998	
		Catherine Haning Coleman, f/k/a Catherine G. Haning	
		Zachary C. Haning	
		Mary Hennen	
		A. E. Hennen, III	
		Morgan Haning	
		Sarah C. Sheridan	
		Kathleen Farmer	
		Anne W. Haning	
		David Michael Hennen	
		John K. Hennen	
		Robert Douglas Hennen	
		Elizabeth L. March	
		Three Rivers Royalty, II, LLC	
		Debra Rae Manning, a/k/a Deborah R. Manning, a/k/a Debora R. Manning and Robert Manning, w/h	
		Kathryn Rew Becker and Michael Compton, w/h	
		BOKF, N.A. as Sole Trustee of the Alma Kirkland Revocable Trust	
		Gail T. Bellucci	
		Northeast Natural Energy LLC	
2	CNX Gas Company LLC	Three Rivers Royalty, II, LLC	1-8-9
		Jack T. Livengood and Mary Jo Livengood	
		Elizabeth L. March	
		Debra Rae Manning, a/k/a Deborah R. Manning, a/k/a Debora R. Manning and Robert Manning	
		Kathryn Rew Becker and Michael Compton	



SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N: 4393931.954	
E: 556989.755	
NAD 83, WV NORTH	
N: 435739.305	
E: 1733446.654	
LAT/LON DATUM NAD 83	
LAT: 39°41'35.990"	
LON: 80°20'07.167"	
LANDING POINT	
UTM 17 NAD 83	
N: 4393370.875	
E: 556392.248	
NAD 83, WV NORTH	
N: 433930.961	
E: 1731455.253	
LAT/LON DATUM NAD 83	
LAT: 39°41'17.935"	
LON: 80°20'32.426"	
BOTTOM HOLE LOCATION (BHL)	
UTM 17 NAD 83	
N: 4389636.258	
E: 558956.088	
NAD 83, WV NORTH	
N: 422192.066	
E: 1739674.376	
LAT/LON DATUM NAD 83	
LAT: 39°39'22.667"	
LON: 80°18'45.929"	



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

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



DATE: JULY 20 20 22  
OPERATORS WELL NO: \_\_\_\_\_  
API WELL NO: 47 - 061 - 01902  
STATE COUNTY PERMIT

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

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 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 7,913'

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

09/02/2022



TRACT ID	SURFACE OWNER	LESSOR	PIN
4	David Troy Beckner, ET AL	Mary Jane Beckner, Life Estate, widow and Troy David Beckner and Janet Lee Smith, Remaindermen, JTROS Antero Resources Corporation	1-8-10
5A	Ralph Six	Bounty Minerals LLC Bounty Minerals III Acquisitions LLC LOLA Drilling I, LLC Rice Drilling B, LLC	1-12-9
5B	Ralph Six	Clark Donley Stiles Phyllis Robison Thomas Sollars and Martha A. Sollars, husband and wife	1-12-9
37	Douglas S. Sanders, et ux	Thomas Sollars and Martha A. Sollars, husband and wife Clark Donley Stiles, a single man AMP IV, LP Douglas S. Sanders and Kimberly J. Sanders, husband and wife	1-13-1
43	Thomas W. Sanders	Thomas W. Sanders, a single man AMP IV, LP Clark Donley Stiles, a single man Thomas Sollars and Martha A. Sollars, husband and wife	1-13-21 1-13-21.1
48A	Clark Donley Stiles	Clark Donley Stiles Antero Resources Corporation AMP IV, LP Thomas Sollars and Martha A. Sollars, husband and wife	1-13-19
49	Clark Donley Stiles	Clark Donley Stiles Antero Resources Corporation	1-13-19
50	Daniel Altfather, et ux	Daniel Altfather and Sandra Barr Altfather, h/w	1-13-18.3
55	Jacqueline Carol Cowell	Ginger L. Brookover Douglas Haught Keith Haught Michael Haught Jacqueline Carol Cowell, widow	1-13-27
56	Donzell Walls, et al	Donzell Walls and Diana J. Walls, husband and wife CNG Producing Company Dominion Exploration & Production, Inc. Antero Resources Appalachian Corporation Dominion Exploration & Production, Inc. Consol Gas Company Kathryn Rew Becker and Michael Compton, wife and husband	1-13-13 1-13-17
57	Pearl Valley LLC	The Masonic Charity Foundation of Oklahoma f/k/a Most Worshipful Grand Lodge of Ancient Free and Accepted Masons of the State of Oklahoma Northeast Natural Energy LLC Pearl Valley LLC TH Exploration LLC William E. King and M. Cynthia Barnhart, Trustees of the John and Joann King Irrevocable Trust dated December 19, 2019	1-13-47

09/02/2022

TRACT ID	SURFACE OWNER	LESSOR	PIN
58	Jacqueline Carol Cowell	The Masonic Charity Foundation of Oklahoma f/k/a Most Worhipful Grand Lodge of Ancient Free and Accepted Masons of the State of Oklahoma Northeast Natural Energy LLC Michael Dean Eddy and Sandra Kay Eddy, husband and wife William E. King and M. Cynthia Barnhart, Trustees of the John and Joann King Irrevocable Trust dated December 19, 2019	1-13-28.1
61	Ronald Ray M. McClain, et al	Terrance Walter Mason and Joy L. Mason, his wife Debra Lynn Frazier and Bradley S. Frazier, her husband Northeast Natural Energy LLC	1-18-4
63A	Richard A. Bartolomew, et al	William G. and Betty J. Cross, his wife CNG Producing Company DominionExploration and Production, Inc. Antero Resources Appalachian Corporation DominionExploration and Production, Inc. Consol Gas Company CNX Gas Company LLC Noble Energy, Inc.	1-13-28
72	Michael W. Godby	EQT Production Company, Rice Drilling B, LLC Betty G. Mason, a widow Margaret S. Ater and David A. Ater, wife and husband Richard M. Snow Robert A. Snow	1-18 P/O 4 1-18-21
74	Richard A. Tennant	EQT Production Company and Rice Drilling B LLC Steven Randolph Hartley and Brynn Hartley Christine Elizabeth Fritz and James Fritz Jennifer Claunch Meyers and Robert E. Meyers Robert Lee Hartley and Judy Hartley Glenn Roger Yost and Nancy E. Yost Larry Wayne Yost Jerry Lee Yost Mary Marlene Miller Alvarez Eilene Yvonne Turner, a/k/a Eilene Kucix a/k/a Eilene Yvonne Kucera Gary Lynn Yost Gene D. Yost and Sara E. Yost Christopher Claunch Marjorie J. Kroh LOLA Drilling I, LLC Rice Drilling B, LLC Vivian Maxine Tennant Estate, by Janet M. Shriver, acting as Executrix; Richard A. Tennant, a single man; Janet M. Shriver, a married woman dealing in her sole and separate property; and Judith A. Ammons, a single woman Northeast Natural Energy LLC	1-18-19
75	Kent T. Saul, et ux	EQT Production Company and Rice Drilling B LLC Steven Randolph Hartley and Brynn Hartley Christine Elizabeth Fritz and James Fritz Jennifer Claunch Meyers and Robert E. Meyers Robert Lee Hartley and Judy Hartley Christopher Claunch Glenn Roger Yost and Nancy E. Yost Larry Wayne Yost Jerry Lee Yost Mary Marlene Miller Alvarez Eilene Yvonne Turner, a/k/a Eilene Kucix a/k/a Eilene Yvonne Kucera Gary Lynn Yost Gene D. Yost and Sara E. Yost Northeast Natural Energy LLC Marjorie J. Kroh LOLA Drilling I, LLC Rice Drilling B, LLC Janet Shriver and Gary L. Shriver, h/w Richard Tennant Judith A. Ammons a/k/a Judy Ammons Northeast Natural Energy LLC	1-18-20

09/02/2022

API WELL NO

47 - 061 - 01902

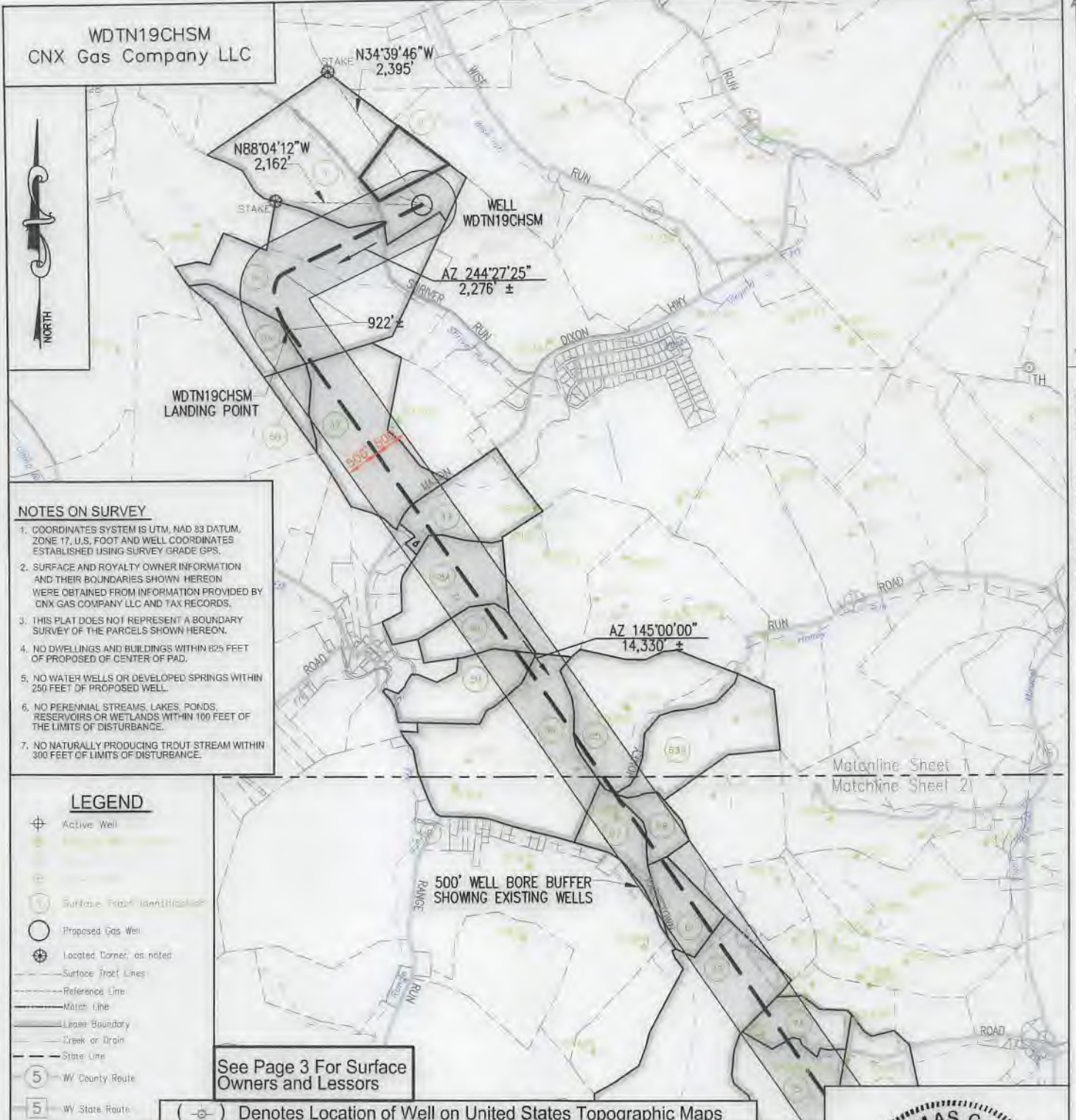
STATE COUNTY PERMIT



TRACT ID	SURFACE OWNER	LESSOR	PIN
76	Thomas Oetjens Marshall Sr.	EQT Production Company and Rice Drilling B LLC	1-18-18
		Steven Randolph Hartley and Brynn Hartley	
		Christine Elizabeth Fritz and James Fritz	
		Jennifer Claunch Meyers and Robert E. Meyers	
		Robert Lee Hartley and Judy Hartley	
		Thomas Oetjens Marshall, widower	
		Christopher Claunch	
		Marjorie J. Kroh	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	

09/02/2022





**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 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
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Match 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

Matchline Sheet 1  
Matchline Sheet 2

500' WELL BORE BUFFER SHOWING EXISTING WELLS



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" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: NGS CORS Station



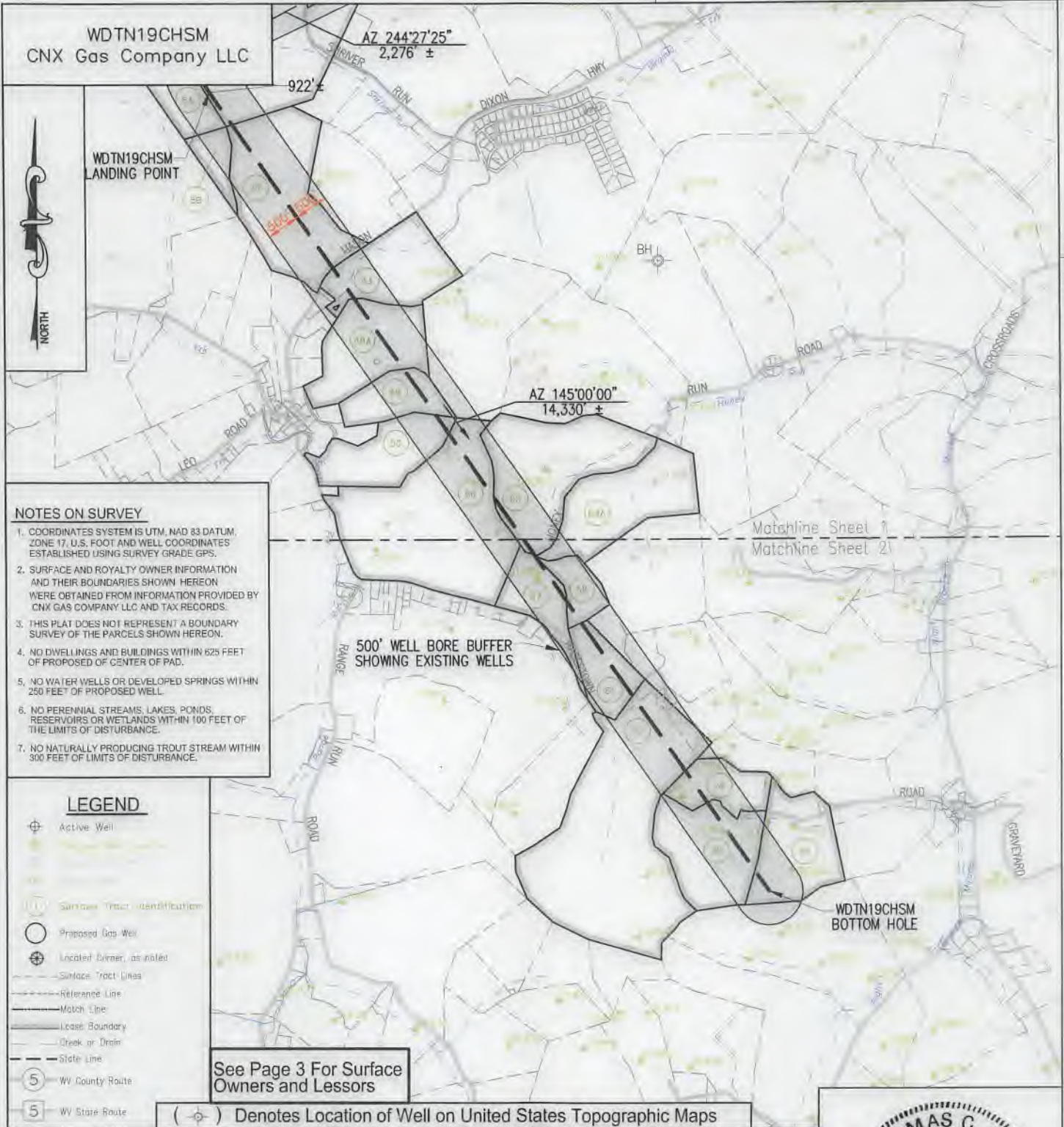
DATE: JULY 20 20 22  
OPERATORS WELL NO: WDTN19 CHSM  
API WELL NO: 47 - 061 - 01902  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION ELEVATION: 1264.30' WATERSHED: Dunkard Creek QUADRANGLE: Wadestown  
DISTRICT: Batelle COUNTY: Monongalia  
SURFACE OWNER: CNX Gas Company LLC ACREAGE: 96.91 ±  
ROYALTY OWNER: Three Rivers Royalty II, LLC, et al LEASE NO: 205228000 ACREAGE: 96.91 ±  
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: 7,913'

09/02/2022

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ADDRESS: 1000 Consol Energy Drive ADDRESS: 1000 Consol Energy Drive  
Canonsburg, PA 15317 Canonsburg, PA 15317





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**LEGEND**

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- Proposed Gas Well
- Located Borehole, as noted
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- Match 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*

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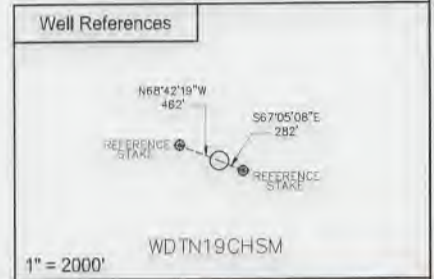
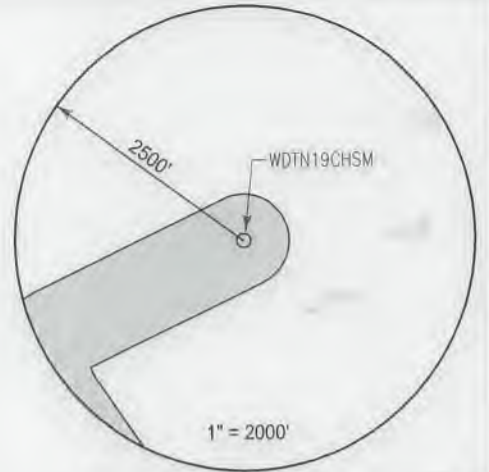
DATE: JULY 20 20 22  
OPERATORS WELL NO: WDTN19 CHSM  
API WELL NO: 47 - 061 - 01902  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
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 ROYALTY OWNER: Three Rivers Royalty II, LLC, et al LEASE NO: 205228000 ACREAGE: 96.91 ±  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
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 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 7,913'  
 WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora  
 ADDRESS: 1000 Consol Energy Drive ADDRESS: 1000 Consol Energy Drive  
 Canonsburg, PA 15317 Canonsburg, PA 15317

09/02/2022



TRACT ID	SURFACE OWNER	LESSOR	PIN
1	CNX Gas Company LLC	Hugh Kirkland	1-8-9
		Jack T. Livengood and Mary Jo Livengood	
		Barbara Haning	
		Diane H. Gonclaves, Individually and co-executor of the Edward Lee North Estate	
		Patrick Lee North	
		Melissa Kubishke	
		Catherine C. Kirkland	
		Louise H. Berg, as Trustee of the The Louise H. Berg Revocable Trust	
		Sherry Lemons	
		Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust	
		Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust	
		Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated 9/2/1998	
		Catherine Haning Coleman, f/k/a Catherine G. Haning	
		Zachary C. Haning	
		Mary Hennen	
		A. E. Hennen, III	
		Morgan Haning	
		Sarah C. Sheridan	
		Kathleen Farmer	
		Anne W. Haning	
		David Michael Hennen	
		John K. Hennen	
		Robert Douglas Hennen	
		Elizabeth L. March	
		Three Rivers Royalty, II, LLC	
		Deborah Rae Manning, a/k/a Deborah R. Manning, a/k/a Debora R. Manning and Robert Manning, w/h	
		Kathryn Rew Becker and Michael Compton, w/h	
		BOKF, N.A. as Sole Trustee of the Alma Kirkland Revocable Trust	
		Gail T. Bellucci	
		Northeast Natural Energy LLC	
2	CNX Gas Company LLC	Three Rivers Royalty, II, LLC	1-8-9
		Jack T. Livengood and Mary Jo Livengood	
		Elizabeth L. March	
		Deborah Rae Manning, a/k/a Deborah R. Manning, a/k/a Debora R. Manning and Robert Manning	
		Kathryn Rew Becker and Michael Compton	



SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N: 4393931.954	
E: 556989.755	
NAD 83, WV NORTH	
N: 435739.305	
E: 1733446.654	
LAT/LON DATUM NAD 83	
LAT: 39°41'35.990"	
LON: 80°20'07.167"	
LANDING POINT	
UTM 17 NAD 83	
N: 4393370.875	
E: 556392.248	
NAD 83, WV NORTH	
N: 433930.961	
E: 1731455.253	
LAT/LON DATUM NAD 83	
LAT: 39°41'17.935"	
LON: 80°20'32.426"	

WDTN19 WELL PAD		BOTTOM HOLE LOCATION (BHL)	
		UTM 17 NAD 83	
		N: 4389836.258	
		E: 558956.088	
		NAD 83, WV NORTH	
		N: 422192.086	
		E: 1739674.376	
		LAT/LON DATUM NAD 83	
		LAT: 39°39'22.667"	
		LON: 80°18'45.929"	



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'  
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43	Thomas W. Sanders	Thomas W. Sanders, a single man AMP IV, LP Clark Donley Stiles, a single man Thomas Sollars and Martha A. Sollars, husband and wife	1-13-21 1-13-21.1
48A	Clark Donley Stiles	Clark Donley Stiles Antero Resources Corporation AMP IV, LP Thomas Sollars and Martha A. Sollars, husband and wife	1-13-19
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55	Jacqueline Carol Cowell	Ginger L. Brookover Douglas Haught Keith Haught Michael Haught Jacqueline Carol Cowell, widow	1-13-27
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57	Pearl Valley LLC	The Masonic Charity Foundation of Oklahoma f/k/a Most Worshipful Grand Lodge of Ancient Free and Accepted Masons of the State of Oklahoma Northeast Natural Energy LLC Pearl Valley LLC TH Exploration LLC William E. King and M. Cynthia Barnhart, Trustees of the John and Joann King Irrevocable Trust dated December 19, 2019	1-13-47

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TRACT ID	SURFACE OWNER	LESSOR	PIN
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		Northeast Natural Energy LLC	
		Michael Dean Eddy and Sandra Kay Eddy, husband and wife William E. King and M. Cynthia Barnhart, Trustees of the John and Joann King Irrevocable Trust dated December 19, 2019	
61	Ronald Ray M. McClain, et al	Terrance Walter Mason and Joy L. Mason, his wife	1-18-4
		Debra Lynn Frazier and Bradley S. Frazier, her husband	
		Northeast Natural Energy LLC	
63A	Richard A. Bartolomew, et al	William G. and Betty J. Cross, his wife	1-13-28
		CNG Producing Company	
		Dominion Exploration and Production, Inc.	
		Antero Resources Appalachian Corporation	
		Dominion Exploration and Production, Inc.	
		Consol Gas Company	
		CNX Gas Company LLC	
		Noble Energy, Inc.	
72	Michael W. Godby	EQT Production Company, Rice Drilling B, LLC	1-18 P/O 4 1-18-21
		Betty G. Mason, a widow	
		Margaret S. Ater and David A. Ater, wife and husband	
		Richard M. Snow	
		Robert A. Snow	
TRACT ID	SURFACE OWNER	LESSOR	PIN
74	Richard A. Tennant	EQT Production Company and Rice Drilling B LLC	1-18-19
		Steven Randolph Hartley and Brynn Hartley	
		Christine Elizabeth Fritz and James Fritz	
		Jennifer Claunch Meyers and Robert E. Meyers	
		Robert Lee Hartley and Judy Hartley	
		Glenn Roger Yost and Nancy E. Yost	
		Larry Wayne Yost	
		Jerry Lee Yost	
		Mary Marlene Miller Alvarez	
		Eilene Yvonne Turner, a/k/a Eilene Kucix a/k/a Eilene Yvonne Kucera	
		Gary Lynn Yost	
		Gene D. Yost and Sara E. Yost	
		Christopher Claunch	
		Marjorie J. Kroh	
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		Rice Drilling B, LLC	
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		Christopher Claunch	
		Glenn Roger Yost and Nancy E. Yost	
		Larry Wayne Yost	
		Jerry Lee Yost	
		Mary Marlene Miller Alvarez	
		Eilene Yvonne Turner, a/k/a Eilene Kucix a/k/a Eilene Yvonne Kucera	
		Gary Lynn Yost	
		Gene D. Yost and Sara E. Yost	
		Northeast Natural Energy LLC	
		Marjorie J. Kroh	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
		Janet Shriver and Gary L. Shriver, h/w	
		Richard Tennant	
		Judith A. Ammons a/k/a Judy Ammons	
		Northeast Natural Energy LLC	

09/02/2022



TRACT ID	SURFACE OWNER	LESSOR	PIN
76	Thomas Oetjens Marshall Sr.	EQT Production Company and Rice Drilling B LLC	1-18-18
		Steven Randolph Hartley and Brynn Hartley	
		Christine Elizabeth Fritz and James Fritz	
		Jennifer Claunch Meyers and Robert E. Meyers	
		Robert Lee Hartley and Judy Hartley	
		Thomas Oetjens Marshall, widower	
		Christopher Claunch	
		Marjorie J. Kroh	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	

09/02/2022

WW-6A1  
(5/13)

Operator's Well No. WDTN19CHSM

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

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

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

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

See Attached

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

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

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

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: Dave Wagoner  
 Its: Permitting Services Mgr



Attachment Form WV-6A-1 for WDTN1924341

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1	1-8-9	205228000	CNX Gas Company LLC	Hugh Kirkland	CNX Gas Company LLC	Fee	1611/49
				Jack T. Livengood and Mary Jo Livengood	CNX Gas Company LLC	Fee	1611/52
				Barbara Haning	CNX Gas Company LLC	Fee	1622/103
				Diane H. Gonclaves, Individually and co-executor of the Edward Lee North Estate	CNX Gas Company LLC	Fee	1629/420
				Patrick Lee North	CNX Gas Company LLC	Fee	1629/411
				Melissa Kubishke	CNX Gas Company LLC	Not less than 1/8	1613/363
				Catherine C. Kirkland	CNX Gas Company LLC	Not less than 1/8	1613/424
				Louise H. Berg, as Trustee of the The Louise H. Berg Revocable Trust	CNX Gas Company LLC	Not less than 1/8	1613/419
				Sherry Lemons	CNX Gas Company LLC	Not less than 1/8	1613/325
				Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust	CNX Gas Company LLC	Not less than 1/8	1613/429
				Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust	CNX Gas Company LLC	Not less than 1/8	1614/660
				Stephen D. Kirkland and Julie B. Kirkland, Trustees of the Kirkland Family Revocable Trust dated 9/2/1998	CNX Gas Company LLC	Not less than 1/8	1614/654
				Catherine Haning Coleman, 1/1/s Catherine G. Haning	CNX Gas Company LLC	Not less than 1/8	1622/173
				Zachary C. Haning	CNX Gas Company LLC	Not less than 1/8	1622/209
				Mary Hennen	CNX Gas Company LLC	Not less than 1/8	1620/155
				A. E. Hennen, III	CNX Gas Company LLC	Not less than 1/8	1620/166
				Morgan Haning	CNX Gas Company LLC	Not less than 1/8	1622/168
				Sarah C. Sheridan	CNX Gas Company LLC	Not less than 1/8	1621/340
				Kathleen Farmer	CNX Gas Company LLC	Not less than 1/8	1620/160
				Anne W. Haning	CNX Gas Company LLC	Not less than 1/8	1620/171
				David Michael Hennen	CNX Gas Company LLC	Not less than 1/8	1620/176
John K. Hennen	CNX Gas Company LLC	Not less than 1/8	1621/324				
Robert Douglas Hennen	CNX Gas Company LLC	Not less than 1/8	1622/183				
Elizabeth L. March	CNX Gas Company LLC	Not less than 1/8	1613/434				
Three Rivers Royalty, II, LLC	CNX Gas Company LLC	Not less than 1/8	1616/658				
Debora Rae Manning, a/k/a Deborah R. Manning, a/k/a Debora R. Manning and Robert Manning, w/h	CNX Gas Company LLC	Not less than 1/8	1627/648				
Kathryn Rew Becker and Michael Compton, w/h	CNX Gas Company LLC	Not less than 1/8	1625/420				
BOKE, N.A. as Sole Trustee of the Alma Kirkland Revocable Trust	CNX Gas Company LLC	Not less than 1/8	1631/94				
Gail T. Bellucci	Northeast Natural Energy LLC	Not less than 1/8	1630/158				
Northeast Natural Energy LLC	CNX Gas Company LLC	Assignment	154/99				
2	1-8-9	189014000	CNX Gas Company LLC	Three Rivers Royalty, II, LLC	CNX Gas Company LLC	Not less than 1/8	1616/658
				Jack T. Livengood and Mary Jo Livengood	CNX Gas Company LLC	Not less than 1/8	1611/52
				Elizabeth L. March	CNX Gas Company LLC	Not less than 1/8	1613/434
				Debora Rae Manning, a/k/a Deborah R. Manning, a/k/a Debora R. Manning and Robert Manning	CNX Gas Company LLC	Not less than 1/8	1627/648
				Kathryn Rew Becker and Michael Compton	CNX Gas Company LLC	Not less than 1/8	1625/420
4	1-8-10	189649000	David Troy Beckner, et al	Mary Jane Beckner, Life Estate, widow and Troy David Beckner and Janet Lee Smith, Remaindermen, JROS	Antero Resources Corporation	Not less than 1/8	1617/342
				Antero Resources Corporation	CNX Gas Company LLC	Assignment	159/186
5A	1-12-9	189650000	Ralph Six	Bounty Minerals LLC	LOLA Drilling I, LLC	Not less than 1/8	1586/4
				Bounty Minerals III Acquisitions LLC	LOLA Drilling I, LLC	Not less than 1/8	1586/7
				LOLA Drilling I, LLC	Rice Drilling B, LLC	Assignment	133/752
				Rice Drilling B, LLC	CNX Gas Company LLC	Assignment	153/774
58	1-12-9	189650000	Ralph Six	Clark Donley Stiles	CNX Gas Company LLC	Not less than 1/8	1479/497
				Phyllis Robison	CNX Gas Company LLC	Not less than 1/8	1489/688
				Thomas Sollars and Martha A. Sollars, husband and wife	CNX Gas Company LLC	Not less than 1/8	1693/506
37	1-13-1	204967000	Douglas S. Sanders, et ux	Thomas Sollars and Martha A. Sollars, husband and wife	CNX Gas Company LLC	Not less than 1/8	1732/63
				Clark Donley Stiles, a single man	CNX Gas Company LLC	Not less than 1/8	1471/688
				AMP IV, LP	CNX Gas Company LLC	Not less than 1/8	1694/227
Douglas S. Sanders and Kimberly J. Sanders, husband and wife	CNX Gas Company LLC	Not less than 1/8	1681/27				
43	1-13-21	204989000	Thomas W. Sanders	Thomas W. Sanders, a single man	CNX Gas Company LLC	Not less than 1/8	1681/32
				AMP IV, LP	CNX Gas Company LLC	Not less than 1/8	1694/227
				Clark Donley Stiles, a single man	CNX Gas Company LLC	Not less than 1/8	1471/681
				Thomas Sollars and Martha A. Sollars, husband and wife	CNX Gas Company LLC	Not less than 1/8	1757/115
48A	1-13-19	205876000	Clark Donley Stiles	Clark Donley Stiles	Antero Resources Corporation	Not less than 1/8	1577/300
				Antero Resources Corporation	CNX Gas Company LLC	Assignment	133/434
AMP IV, LP	CNX Gas Company LLC	Not less than 1/8	1694/227				
Thomas Sollars and Martha A. Sollars, husband and wife	CNX Gas Company LLC	Not less than 1/8	1732/58				
49	1-14-19	205011000	Clark Donley Stiles	Clark Donley Stiles	Antero Resources Corporation	Not less than 1/8	1577/300
				Antero Resources Corporation	CNX Gas Company LLC	Assignment	133/434
50	1-15-18.3	205012000	Daniel Altfather, et ux	Daniel Altfather and Sandra Barr Altfather, h/w	CNX Gas Company LLC	Not less than 1/8	1761/39
55	1-13-27	204986000	Jacqueline Carol Cowell	Ginger L. Bronkover	CNX Gas Company LLC	Not less than 1/8	1510/823
				Douglas Haught	CNX Gas Company LLC	Not less than 1/8	1514/651
				Keith Haught	CNX Gas Company LLC	Not less than 1/8	1523/551
				Michael Haught	CNX Gas Company LLC	Not less than 1/8	1520/449
				Jacqueline Carol Cowell, widow	CNX Gas Company LLC	Not less than 1/8	1666/766
56	1-13-17	205013000	Donzell Walls, et al	Donzell Walls and Diana J. Walls, husband and wife	CNG Producing Company	Not less than 1/8	1175/139
				CNG Producing Company	Dominion Exploration & Production, Inc.	Name Change	DE Secretary of State
Dominion Exploration & Production, Inc.	Antero Resources Appalachian Corporation	Assignment	102/797				
Antero Resources Appalachian Corporation	Dominion Exploration & Production, Inc.	Assignment	103/594				
Dominion Exploration & Production, Inc.	Consol Gas Company	Name Change	60/7				

09/02/2022





4706101902

<b>Christopher Claunch</b>	<b>CNX Gas Company LLC</b>	<b>Not less than 1/8</b>	<b>151/344</b>
<b>Marjorie J. Kroh</b>	<b>LOLA Drilling I, LLC</b>	<b>Not less than 1/8</b>	<b>1563/69</b>
LOLA Drilling I, LLC	Rice Drilling B, LLC	Assignment	133/752
Rice Drilling B, LLC	CNX Gas Company LLC	Assignment	153/774

09/02/2022



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

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

June 15, 2022

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

**RE: Road Letter – WDTN19 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](mailto:SarahWeigand@cnx.com).

Sincerely,

A handwritten signature in blue ink that reads 'Sarah Weigand'. The signature is written in a cursive, flowing style.

Sarah Weigand

09/02/2022



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

RECEIVED  
Office of Oil and Gas  
JUL 27 2022

Date of Notice Certification: 7/26/22

API No. 47- \_\_\_\_\_  
Operator's Well No. WDTN19CHSM WV Department of  
Well Pad Name: WDTN19 Environmental Protection

**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>556989.755</u>
County:	<u>Monongalia</u>		Northing:	<u>4393931.954</u>
District:	<u>Batelle</u>	Public Road Access:	<u>Wise Run Road/CR 6</u>	
Quadrangle:	<u>Wadestown</u>	Generally used farm name:	<u>CNX</u>	
Watershed:	<u>Dunkard Creek</u>			

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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**Required Attachments:**

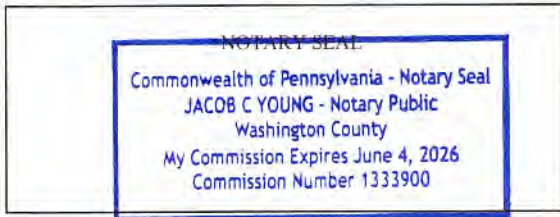
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

WW-6AC  
(1/12)

**Certification of Notice is hereby given:**

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

Well Operator:	CNX Gas Company LLC	Address:	1000 CONSOL Energy Drive
By:	Sarah Weigand <i>[Signature]</i>		Canonsburg, PA 15317
Its:	Manager Permitting Services	Facsimile:	
Telephone:	724-485-3244	Email:	SarahWeigand@cnx.com



Subscribed and sworn before me this 26<sup>th</sup> day of July, 2022.  
Jacob C Young Notary Public  
 My Commission Expires 6/4/2022

**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 [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).

RECEIVED  
Office of Oil and Gas  
JUL 27 2022  
WV Department of  
Environmental Protection



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: 7/26/22 Date Permit Application Filed: 7/27/22

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: CNX Gas Company LLC  
 Address: 1000 CONSOL Energy Drive  
Canonsburg, PA 15317  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)  
 Name: Barbara S Shriver  
 Address: 70 Wise Run Road  
Wana, WV 26590  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
 Name: see attached  
 Address: \_\_\_\_\_

COAL OPERATOR  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
 Name: see attached  
 Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

\*Please attach additional forms if necessary

RECEIVED  
Office of Oil and Gas  
JUL 27 2022  
WV Department of  
Environmental Protection



**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

**Well Location Restrictions**

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



WW-6A  
(8-13)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
OPERATOR WELL NO. WDTN19CHSM  
Well Pad Name: WDTN19

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

#### **Water Well Testing:**

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

#### **Water Testing Laboratories:**

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

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

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

#### **Written Comment:**

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

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

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

### **Time Limits and Methods for Filing Comments.**

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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

### **Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

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

### **Permit Denial or Condition**

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

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

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

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



4706101902

WW-6A  
(8-13)

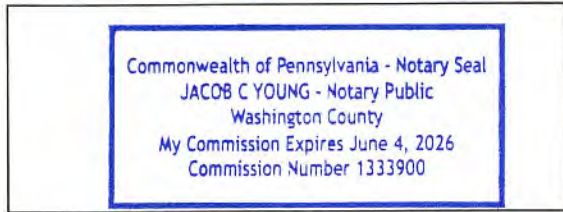
API NO. 47- -  
OPERATOR WELL NO. WDTN19CHSM  
Well Pad Name: WDTN19

Notice is hereby given by: Sarah Weigand  
Well Operator: Sarah Weigand  
Telephone: 724-485-3244  
Email: SarahWeigand@cnx.com

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

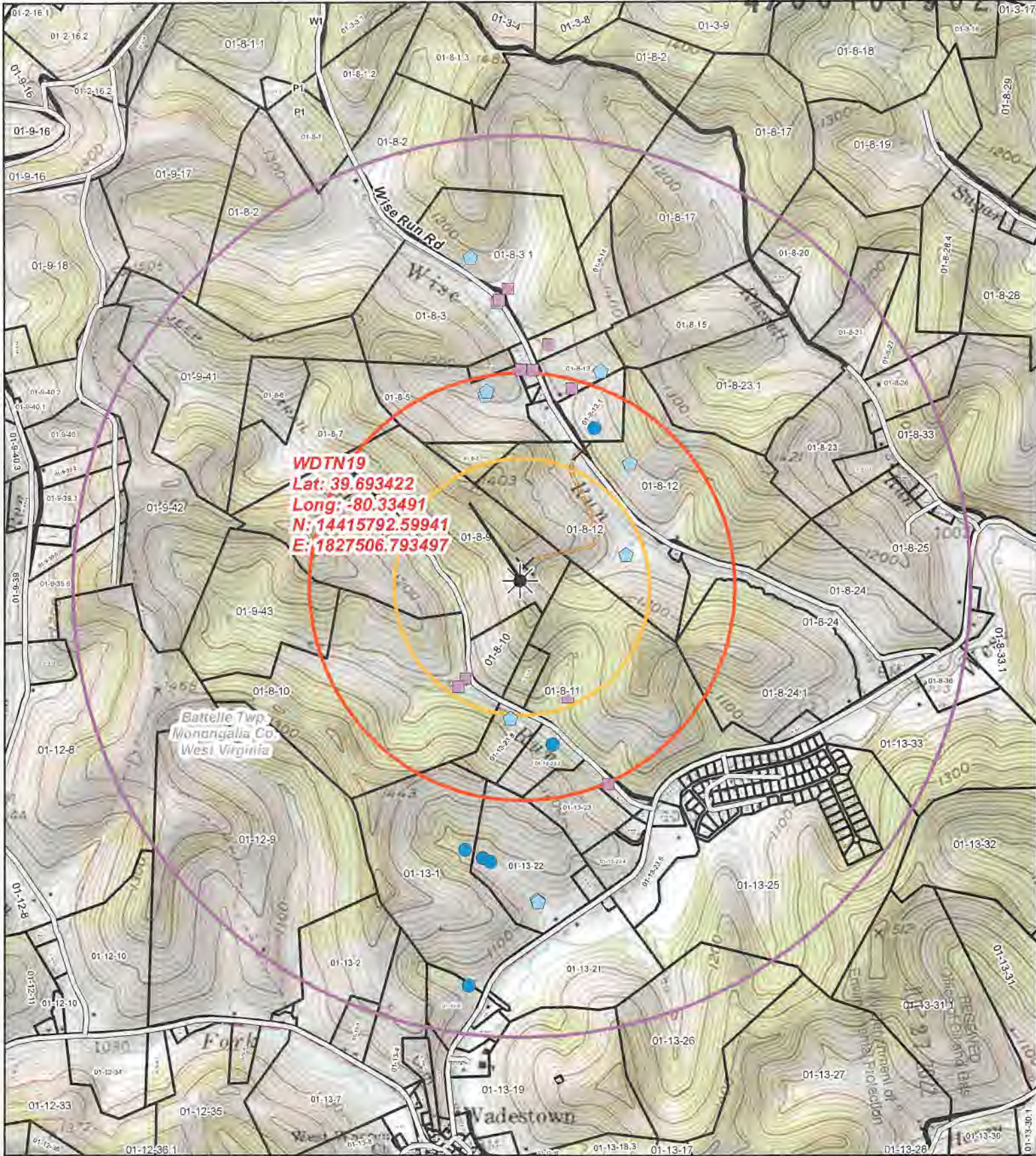
**Oil and Gas Privacy Notice:**

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



Subscribed and sworn before me this 26<sup>th</sup> day of July, 2022.  
Jacob C Young Notary Public  
My Commission Expires 6/4/2026





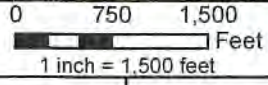
**WDTN19**  
 Lat: 39.693422  
 Long: -80.33491  
 N: 14415792.59941  
 E: 1827506.793497

Battelle Twp  
 Monongalia Co  
 West Virginia

Wadestown

**Legend**

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



Original Date: 7/19/2022	Prepared By: GIS
Revision Date: 7/19/2022	Approved By: GIS

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**WDTN19**  
**Ground Water Map**  
 09/02/2022



<b>WDTN19CHSM 6A Notices</b>	
<b>Surface Owner</b>	<b>Address</b>
CNX Gas Company LLC	1000 Consol Energy Drive Canonsburg, PA 15317
<b>Surface Owner (Road and/or Other Disturbance)</b>	<b>Address</b>
Barbara S Shriver	70 Wise Run Road Wana, WV 26590
<b>PGH Coal Seam</b>	
<b>Coal Owner</b>	<b>Address</b>
CONSOL RCPC LLC	Attn: Casey Saunders 275 Technology Drive Suite 101 Canonsburg, PA 15317-9565
<b>All Other Coal Seams</b>	
<b>Coal Owner</b>	<b>Address</b>
CNX Gas Company LLC	1000 Consol Energy Drive Canonsburg, PA 15317
Kathryn W. Becker	819 NE 128th Street Seattle, WA 98125
Deborah W. Manning	P.O. Box 895 Plymouth, CA 95669
Elizabeth W. March	P.O. Box 82 Bally, PA 19503
George Cummins Jr.	31 Atisvgi Court Brevard, NC 28712
<b>Water Wells w/in 1500'</b>	
Barbara S Shriver	70 Wise Run Road Wana, WV 26590
Troy David Beckner & Janet Lee Smith (Life- Mary Jane Beckner)	11 Mona Lane Wana, WV 26590
Rodney Henry	200 East St. Carmichaels, PA 15320

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WV Department of  
Environmental Protection

09/02/2022

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

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

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

**Date of Notice:** \_\_\_\_\_ **Date Permit Application Filed:** \_\_\_\_\_

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**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: CNX GAS COMPANY LLC  
Address: 1000 CONSOL ENERGY DRIVE  
CANONSBURG, PA 15317

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

**Notice is hereby given:**

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

State:	WEST VIRGINIA	UTM NAD 83	Eastings:	556989.755
County:	MONONGALIA		Northing:	4393931.954
District:	BATELLE	Public Road Access:	WISE RUN ROAD/ CR6	
Quadrangle:	WADESTOWN	Generally used farm name:	CNX	
Watershed:	DUNKARD CREEK			

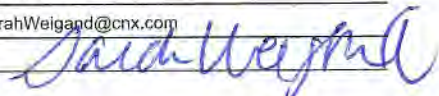
**This Notice Shall Include:**

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

**Notice is hereby given by:**

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

Authorized Representative: Sarah Weigand  
Address: 1000 CONSOL Energy Drive  
Canonsburg, PA 15317  
Telephone: 724-485-3244  
Email: SarahWeigand@cnx.com  
Facsimile: \_\_\_\_\_



**Oil and Gas Privacy Notice:**

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



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<b>WDTN19CHSM 6A4 Notices</b>	
<b>Surface Owner</b>	<b>Address</b>
CNX Gas Company LLC	1000 Consol Energy Drive Canonsburg, PA 15317

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Office of Oil and Gas

JUL 27 2022

WV Department of  
Environmental Protection

09/02/2022

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

RECEIVED  
Office of Oil and Gas

JUL 27 2022

WV Department of  
Environmental Protection

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

**Date of Notice:** \_\_\_\_\_ **Date Permit Application Filed:** \_\_\_\_\_

**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: CNX Gas Company LLC Name: \_\_\_\_\_  
 Address: 1000 CONSOL Energy Drive Address: \_\_\_\_\_  
Canonsburg, PA 15317

**Notice is hereby given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>556989.755</u>
County:	<u>Monongalia</u>		Northing:	<u>4393931.954</u>
District:	<u>Batelle</u>	Public Road Access:	<u>Wise Run Road/CR 6</u>	
Quadrangle:	<u>Wadestown</u>	Generally used farm name:	<u>CNX</u>	
Watershed:	<u>Dunkard Creek</u>			

**This Notice Shall Include:**

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

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

**Oil and Gas Privacy Notice:**

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<b>WDTN19CHSM 6A5 Notices</b>	
<b>Surface Owner</b>	<b>Address</b>
CNX Gas Company LLC	1000 Consol Energy Drive Canonsburg, PA 15317

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JUL 27 2022

WV Department of  
Environmental Protection

09/02/2022



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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

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

D. Alan Reed, P.E.  
State Highway Engineer

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

April 5, 2022

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

RECEIVED  
Office of Oil and Gas

JUL 27 2022

WV Department of  
Environmental Protection

Subject: DOH Permit for the WDTN19 Pad, Monongalia County  
WDTN19CHSM Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2018-0900 which has been issued to CNX Gas Company LLC, for access to the State Road for a well site located off Monongalia County Route 6 SLS MP 0.986.

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

Very Truly Yours,

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

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



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



LOCATION MAP  
USGS- WADESTOWN, WV  
SCALE: 1"=2000'



# CNX RESOURCES CORPORATION

## WADESTOWN 19 WELL PAD

### AS-BUILT



LOCATION MAP  
SCALE: 1"=2000'



#### ENTRANCE LOCATION

NAD 83 - LAT: 39° 41' 52.08"; LONG: 80° 19' 56.20"  
NAD 27 - LAT: 39° 41' 51.79"; LONG: 80° 19' 56.92"

BATTELLE DISTRICT,  
MONONGALIA COUNTY, WEST VIRGINIA  
DATE: DECEMBER II, 2019



SHEET INDEX	
DWG #	DRAWING NAME
1	COVER SHEET
2	PLAN VIEW
3	PLAN VIEW WITH ORTHO
4	ACCESS ROAD PROFILE



Know what's below.  
Call before you dig.

NOTE: DRAWING WAS CREATED ON 22x34 PAPER. 11x17 DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.

I HEREBY CERTIFY THAT I AM A LICENSED ENGINEER IN THE STATE OF WEST VIRGINIA. THIS AS-BUILT CERTIFIES, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF: THE WELL PAD CONSTRUCTED BY ANDERSON EXCAVATING IN TYLER COUNTY, WV ON BEHALF OF CNX RESOURCES CORPORATION, HAS BEEN CONSTRUCTED IN GENERAL CONFORMANCE TO THE PLANS AND SPECIFICATIONS AND, IN MY PROFESSIONAL OPINION, IS IN COMPLIANCE WITH APPLICABLE LAWS, CODES, AND ORDINANCES.

SIGNATURE: *[Signature]* DATE: 12/11/2019



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NO.	BY	DATE	DESCRIPTION



SCALE	
DRAWING: 1"=100'	DATE: 12/11/19
CREATED: 1"=100'	DATE: 12/11/19
REVISION: 1"=100'	DATE: 12/11/19
SURVEY DATE: 12/11/19	DATE: 12/11/19
SURVEY BY: JY	
FIELD WORK BY:	



ENGR. HAYDEN DARRIN HUBBARD  
BURTON, WV 26024  
WWW.THRASHERINC.COM

PHONE: 252.619.6436

FAX: 252.619.7435

PHASE NO.	
CONTRACT NO.	
PROJECT NO.	050-10648

CNX RESOURCES CORPORATION  
WADESTOWN 19 SITE  
PAD AS-BUILT  
MONONGALIA COUNTY, WEST VIRGINIA  
COVER SHEET

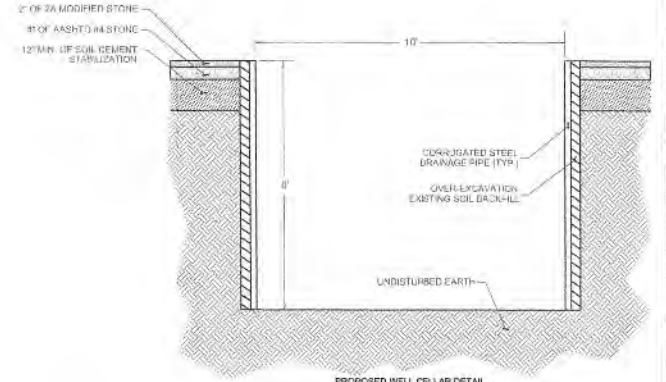
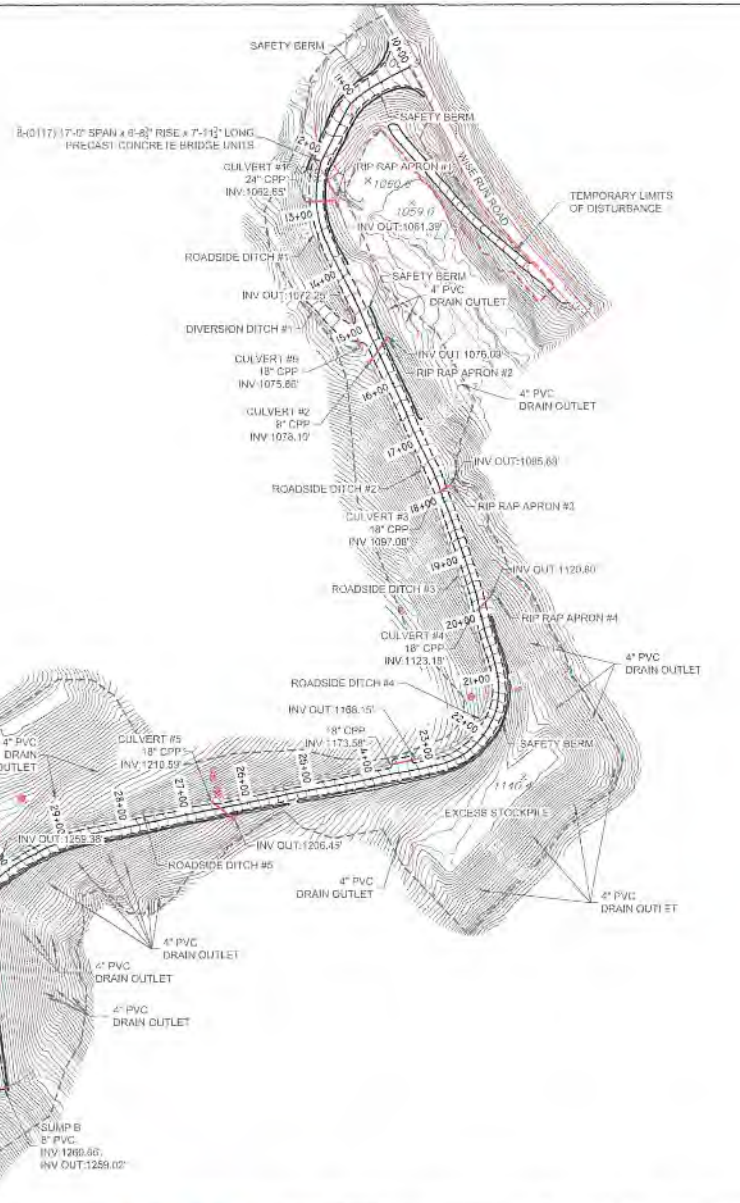
SHEET NO.

1



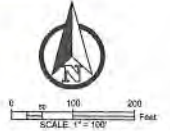
CHART OF PROPOSED WELL SPOTS AND SITE LOCATION

POINT	EPI #	MASS WY NORTH	UTM-NAD83-17 (EPI ELEV.)
		LATITUDE	LONGITUDE
WADSTOWN 19	45740085-20-04	39°47'16.427"	82°50'06.397"
ENTRANCE		39°47'12.087"	82°50'15.207"



**WVDEP OOG  
ACCEPTED AS-BUILT**  
6/3/2022

- LEGEND**
- - - EDGE OF GRAVEL
  - - - DITCH
  - - - DESIGN LOD
  - - - FREELINE
  - - - SILT SOCK
  - - - COMPOSITE FILTER SOCK
  - ⊗ POST
  - ⊙ UTILITY POLE
  - ⊕ RIP RAP
  - BERM



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NO.	BY	DATE	DESCRIPTION



SCALE:	DATE:
SCALE: 1/8"	DATE: 05/16/22
DESIGN: EAC	DATE: 05/16/22
CHECKED: WCB	DATE: 05/16/22
REVISED: WCB	DATE: 05/16/22
SURVEY DATE: 05/16/22	
ISSUE # BY: WCB	
FILE # PROJ #:	



PROJECT NO.	050-10648
CONTRACT NO.	
DATE:	
BY:	
CHECKED:	
DATE:	

**CNX RESOURCES CORPORATION  
WADESTOWN 19 SITE  
PAD AS-BUILT  
MONONGALIA COUNTY, WEST VIRGINIA  
PLAN VIEW**

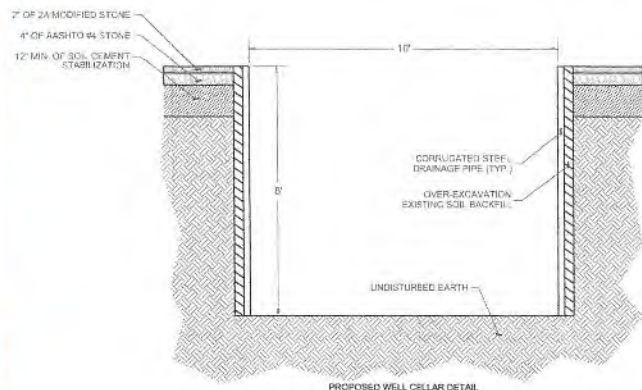
SHEET NO.  
**2**





CHART OF PROPOSED WELL SPOTS AND SITE LOCATION

POINT	API #	NAD83: NW NORTH LATTITUDE	LONGITUDE	UTM-NAD83:41 (METERS) NORTHING	EASTING
WELL #1	17-00-0085-00-01	55°41' 36.438"	80°29' 08.730"	5391526.872	556899.096
ENTRANCE		32°41'52.262"	84°19' 58.253"	4396436.660	657267.284



**WVDEP OOG  
ACCEPTED AS-BUILT**  
*[Signature]* 6/3/2022

LEGEND

- - - - - EDGE OF GRAVEL
- - - - - DITCH
- - - - - DESIGN LOD
- - - - - TREELINE
- - - - - SILT SOCK
- - - - - COMPOSITE FILTER SOCK
- - - - - POST
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- - - - - BERM



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NO.	BY	DATE	DESCRIPTION



SCALE: 1:50	DATE: 02/15/19
DRAWN BY: [Signature]	CHECKED BY: [Signature]
DESIGNED BY: [Signature]	DATE: 02/15/19
SURVEY DATE: 11/19/19	INVESTIGATED BY: [Signature]
FIELD BOOK NO.:	



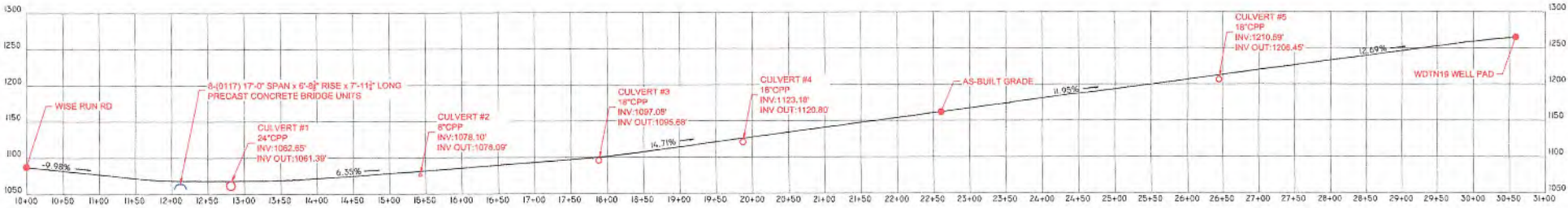
PROJECT NO.:	050-10648
CONTRACT NO.:	
PROJECT NO.:	

CNX RESOURCES CORPORATION  
WADESTOWN 19 SITE  
PAD AS-BUILT  
MONONGALIA COUNTY, WEST VIRGINIA  
PLAN VIEW WITH ORTHO

SHEET NO.  
**3**



WVDEP OOG  
ACCEPTED AS-BUILT  
*[Signature]* 6/3/2022



WADESTOWN 19 ACCESS ROAD PROFILE  
SCALE: 1" = 50' HORIZONTAL  
1" = 50' VERTICAL

NOTE: DRAWING WAS CREATED ON 22x34 PAPER. 11x17 DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.

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NO.	BY	DATE	DESCRIPTION



SCALE: AS NOTED	DATE: 12/15/19
DRAWN BY: [Signature]	DATE: 12/15/19
CHECKED BY: [Signature]	DATE: 12/15/19
REVISED BY: [Signature]	DATE: 12/15/19
SURVEY DATE: 10/16/19	SURVEY BY: CT
FIELD BOOK NO.:	



PHONE: (206) 547-6146 FAX: (206) 528-103

PHASE NO.	
GENERATE NO.	
PROJECT NO.	050-10648

CNX RESOURCES CORPORATION  
WADESTOWN 19 SITE  
PAD AS-BUILT  
MONONGALIA COUNTY, WEST VIRGINIA  
ACCESS ROAD PROFILE

SHEET NO.	4
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