



west virginia department of environmental protection

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

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

Monday, 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 WDTN19RHSM
47-061-01905-00-00

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: WDTN19RHSM
Farm Name: CNX GAS COMPANY LLC
U.S. WELL NUMBER: 47-061-01905-00-00
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

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.

API Number: _____

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.

09/02/2022

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	24,657	24,628	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 16:23:29 -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							

RECEIVED
AUG 03 2022
By COG

PACKERS

Kind:	N/A			
Sizes:				
Depths Set:				

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 SOBMs. Drill 8-1/2" curve from KOP to landing point. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in Marcellus target window). Perform clean-up cycle to condition well. Run and cement 5-1/2" production casing. Suspend well and skid to next well or RDMO drilling rig.

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

Run CBL to ~60 degrees in the curve and back to surface to determine production casing TOC. Test production casing and toe prep well. MIRU stimulation/hydraulic fracturing equipment. Fracture well by pumping required number of stages utilizing plug-and-perf method. Max anticipated treating pressure is ~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 PBSD. 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% CaCl₂ and 1/4 pps cello-flake/LCM. Intermediate string: Class A cement with 0%-2% CaCl₂ and 1/4 pps cello-flake/LCM. Production string: Class A or H cement or Class H:PoZ blend with dry blend and/or liquid additives including retarder, suspension agent, gas block, defoamer, fluid loss control, extender, dispersant, anti-settling agent. Actual cement blends may vary slightly depending upon cementing service company utilized.

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

WDTN19 Cement Additives

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



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

WDTN-19R-HSM SHL

N 435684.6508, E 1764905.8066 (NAD27)

Ground Elevation

1264' GL Elevation

WDTN-19R-HSM LP

N 435728.0447, E 1765880.4338 (NAD27)

Azimuth

320°

WDTN-19R-HSM BHL

N 422695.368, E 1775577.8 (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
			Conductor	129	129					
	17-1/2"	13-3/8" 54.5# J-55 BTC	DFGW		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					
			FW/Coal Casing	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
			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					
	Intermediate Casing	2,960	2,960							
	8-3/4" Tangent	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.)	Centralize every joint from shoe to KOP - TOC	Once at TD, circulate at max flowrate with max rotation until shakers clean-up (typically requires multiple bottoms-up)	Note: For all strings, actual centralizer placements may be changed due to hole conditions
			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						
8-1/2" Curve & Lateral		Marcellus		7,880	12.0-12.5 ppg SOBMs	10% OH Excess Yield = 1.07 TOC @ >= 200' above 9-5/8" shoe	Single-piece/rigid bow centralizers	Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement	Note: For all strings, actual cement blends may vary slightly depending upon service company utilized	
		Production Casing	24,657	7,913						

LP @ +/- 7913' TVD

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

+/- 16270' Lateral

TD @ +/- 24657' TVD

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WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. WDTN19RHSM

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 spud/surface to casing kicks-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

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.

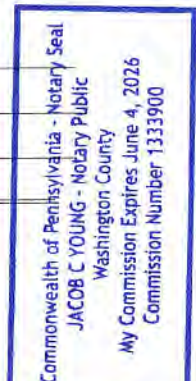
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 26th 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	
1	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 load before leaving the well pad. Solid waste landfills in Ohio can only accept TENORM waste with combined concentration less than 5 picocuries per gram above the natural background level.	Landfill Office: (740) 543-4389 Dave Brown 412-848-1828, dbrown@ApexLF.com
3	Brine Injection - Treatment	Appalachian Water Services (Nuverra Environmental Solutions)	2326 McClellandtown Road, Masontown, 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	40.233830, - 81.003900	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#2B)	34-119-2-8780	Brine (Produced Water)	Bob Orr 740-796-6495 614-648-8898 orrrpetro@gmail.com
8	Brine Injection - Treatment	CNX Resources Corporation	Buchanan County, VA	37.067460, - 82.047918	BPC01	VAS2D960BBUC	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	VAS2D930BBUC	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	VAS2D926BBUC	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	VAS2D970BRUS	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	VAS52D921BBUC	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, - 81.507900	Order No. 2015-582; Heinrich Unit #2 Well, SWIW No. 22	API # 34-167-2-9464-00-00	Brine (Produced Water)	Wes Mossor General Manager wesm@deeprockds.com DeepRock Disposal Solutions LLC Office: 740.371.5078 ext. 206 Cell: 304.588.0936
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 Oils 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	37.495135, -81.105161	Camp Creek Disposal Well	UIC: UIC200550319 API: 47-055-00919	Class II injection fluids that are in connection with conventional oil or gas production and may be commingled with waste waters from gas plants unless those waters are classified as hazardous wastes at the time of injection.	Zachery Reed zacheryr4@yahoo.com PO Box 555, Rosedale, VA 24280 Phone: (276) 880-2323
22	Brine Injection - Treatment	Greene County Water Treatment, Inc.	401 Jefferson Rd. Waynesburg, PA 15370	39.908611, -80.141111	Waynesburg Facility	WMGR1235W010	Oil and Gas Fluids with minimal oil and solids present	Gary Carpenter 67-246-6176 JRBGCarpenter@aol.com Office: (330) 270-9300
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 330-398-5919 lchamberlain@hvc-inc.com
24	Brine Injection - Treatment	Hydro Recovery	572 Route 18 Burgettstown, PA 15021	40.422874, -80.426125	Burgettstown Facility	WMGR1235W019	Oil and Gas Fluids with minimal oil and solids present	Ashley Cromley 570-394-4450 Ashley.cromley@hydrorecovery.com
25	Non-Haz Disposal	Mascaro & Sons- Wetzel Co LF	1521 Wetzel County Landfill Rd. New Martinsville, WV 26155	N/A	Wetzel County Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings/Frac Sand, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum)Construction & Demolition Waste, Industrial Waste, Process Waste, Municipal Solid Waste	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 Disposal	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	39.97435, -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	Oil & Oily Water Treat - Recycle	Quala	515 Industrial Blvd., Wooster, OH 44691	N/A	N/A	N/A	Non-hazardous wastewater, transportation, treatment and disposal facility. Also offer transportation and solidification services.	330-264-8080 (O) jlater@quala.us.com
31	Non-Haz Disposal	Republic Services - Carbon-Limestone**	8100 S State Line Rd, Lowellville, OH 44436	N/A	Carbon-Limestone Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum)Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Solidification Services, Municipal Solid Waste **Ohio "TENORM" - requires Radium 226/228 analysis by 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 Disposal	Republic Services - Imperial (Allied Waste of PA)	11 Boggs Rd, Imperial, PA 15126	N/A	Imperial Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings/Frac Sand, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Friable Asbestos, Non-Friable Asbestos, Municipal Solid Waste	Jack Palermo - jpalermo@republicservices.com, 330-536-7575
33	Non-Haz Disposal	Republic Services - Short Creek	North Fork Short Creek Road, Wheeling, WV 26003	N/A	Short Creek Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings/Frac Sand, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Municipal Solid Waste	Jack Palermo - jpalermo@republicservices.com, 330-536-7575

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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	Oil & 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	Oil & 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 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 Disposal	Waste Management - American Landfill	7916 Chapel St SE, Waynesburg, OH 44688	N/A	American Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Friable Asbestos, Non-Friable Asbestos, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
40	Non-Haz Disposal	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 Harr Ln, Blountville, TN 37617				Spencer to complete	Travis Maryanski tmaryanski@wm.com (865) 388-7279 Cell (205) 652-8137 Tech Service
42	Non-Haz Disposal	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 Disposal	Waste Management - Kelly Run	1500 Hayden Blvd, Elizabeth, PA 15037	N/A	Kelly Run Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
44	Non-Haz Disposal	Waste Management - Mahoning Landfill	3510 E Garfield Rd, New Springfield, OH 44443	N/A	Mahoning Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Non-Friable Asbestos, Process Waste, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
45	Non-Haz Disposal	Waste Management - Meadowfill Landfill	1488 Dawson Dr, Bridgeport, WV 26330	N/A	Meadowfill Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Friable Asbestos, Non-Friable Asbestos, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
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 Davie: 716-286-0365 or 716-754-8231 or 800-963-4776
47	Non-Haz Disposal	Waste Management - Northwestern Landfill	510 Dry Run Rd, Parkersburg, WV 26104	N/A	Northwestern Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Solidification Services, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
48	Non-Haz Disposal	Waste Management - S&S Grading Landfill	4439 Good Hope Pike, Clarksburg, WV 26301	N/A	S&S Grading Landfill	N/A	Gas Specific Waste Streams: Drill Cuttings, Waste Liners, Other Accepted Waste Streams: Contaminated Soil (Including Petroleum), Construction & Demolition Waste, Industrial Waste, Sludge, Process Waste, Municipal Solid Waste	Customer Service: 1 (866) 909-4458 Mark A. Thomas: 412-522-0610, mthoma15@wm.com Tom Farnsworth: C- 330-204-4244, TFarnsw@wm.com
49	Non-Haz Disposal	Waste Management - South Hills (Arnoni)	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 Disposal	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	25	Orchard Grass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Kenneth Greynolds
Digitally signed by: Kenneth Greynolds
DN: cn = Kenneth Greynolds, email = Kenn@llc.L, Greynolds@nv.gov, c = AD O = W/DEP OJ = Oil and Gas
Date: 2022.07.21 09:07:25 -0400

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No

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

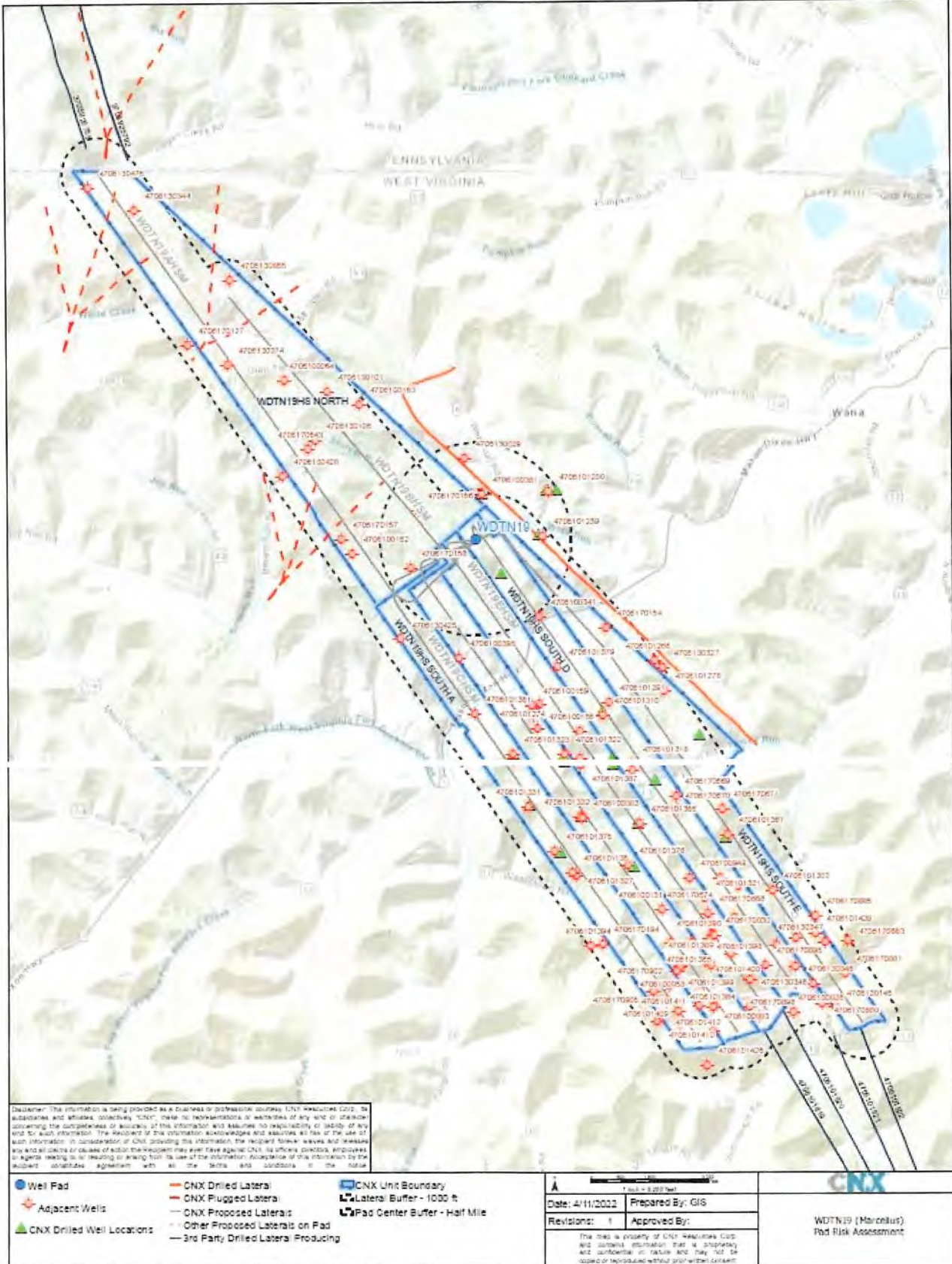




Figure 2. List of 98 wells seen in Figure 1. Two groups are shown below.

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
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>	8/8/1926	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
4706130346	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	CLOVIS ROY W	<Null>	INACTIVE	<Null>	<Null>	<Null>	8/1/1925	<Null>	3465
4706130101	ERNEST BELL	MACKAY, ARTHUR D.	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	3492
4706130106	WM HAINES	MACKAY, 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 HERS	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>
4706170659	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>
4706170880	SOUTH PENN OIL	(N/A)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170885	SOUTH PENN OIL	SOUTH PENN OIL (S. PENN NAT. GAS)	<Null>	INACTIVE	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4706170896	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>
4706170156	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>



WDTN19 Pad Frac SOG Review

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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	CONSOL	<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	PITTSBURGH COAL	P & A	1/2/2002		12/4/2001	<Null>	7/31/2006	7/1/2002	1145
4706101323	WE WV 5356	CONSOL	<Null>	P & A		12/10/1998	11/23/1998	<Null>	1/1/2001	1/1/2001	1208
4706101389	MCDERMOTH 1	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		5/8/2000	5/4/2000	5/15/2000	8/9/2000	<Null>	1508
4706101391	CHISLER, ROY D. F2-445	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		6/15/2000	6/12/2000	6/16/2000	7/14/2000	<Null>	1600
4706101384	MOON OIL CO. 1	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	GORDON	P & A		2/15/2000	2/9/2000	3/7/2000	3/7/2000	<Null>	1164
4706100085	TENNANT, GEORGE F2-451	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	GORDON	P & A	2/19/1997	6/28/2001	6/28/2001	10/9/1996	9/8/2001	<Null>	3231
4706100983	TJ COWELL 2756	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	GORDON	P & A		7/22/1989	1/10/1989	10/23/1912	3/12/1999	1/1/1979	3246
4706101273	SANDERS, THOMAS, ETUX F2-196	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	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.	<Null>	P & A		3/26/1999	3/25/1999	3/26/1999	4/6/1999	<Null>	3337
4706100183	WISE, M. M. 5077	(N/A)	BIG INJUN (PRICE&EQ)	P & A		6/26/1946	3/19/1953	12/15/1913	6/13/1946	<Null>	3412
4706101318	TJ COWELL 2713	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		10/7/1998	8/20/1988	9/21/1912	10/7/1998	<Null>	3424
4706101408	WOODRUFF, MARY JANE F2-469	ERP FEDERAL MINING COMPLEX, LLC	<Null>	P & A		5/29/2001	5/21/2001	<Null>	<Null>	<Null>	3430
4706101401	YOST, GENE F2-447	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A	2/8/2001		2/8/2001	2/19/2001	3/6/2001	<Null>	3440
4706100162	SHRIVER, INA & SUSANNA 3711	A V COMPANY	<Null>	P & A		10/8/1969	10/8/1969	9/1/1999	12/1/1943	<Null>	3442
4706101371	AMMONS, DONZEL F2-441	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		8/30/1999	8/24/1999	9/5/1999	10/19/1999	<Null>	3450
4706100381	SHRIVER, S. 2250	DIVERSIFIED ENERGY	FIFTH	P & A							3452
4706101379	WV 5252	DIVERSIFIED ENERGY	BIG INJUN (PRICE&EQ)	P & A		12/10/1921	<Null>	7/25/1911	10/17/1911	1/1/1979	3452
4706100131	STILES, T. S. 2	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		12/7/1999	11/22/1999	4/3/2000	4/3/2000	10/1/2001	3500
4706100064	HENNEN, WILLIAM O. 1609	(N/A)	<Null>	P & A		10/3/1974	12/3/1969	9/1/1941	1/24/2000	<Null>	3524
4706101291	EASTERN ASSOC. COAL P	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		1/1/2000	1/1/2000	1/16/1928	4/3/1935	<Null>	3724
4706100341	EAKIN, C. L. 11891	EASTERN GAS TRANSMISSION AND STORAGE, INC	<Null>	P & A		1/22/1998	11/25/1997	9/23/1946	1/22/1998	<Null>	3746
4706101266	EACC-F2-220	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		4/11/1997	2/3/1997	2/27/1997	4/1/1997	<Null>	5520
4706101378	WEWV 05471	CONSOL	<Null>	P & A		12/6/1999	11/1/1999	<Null>	4/1/2001	<Null>	<Null>
4706101400	SOUTH PENN 2	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		12/26/2000	12/21/2000	1/3/2001	2/12/2001	<Null>	<Null>
4706100119	BREWER, J. M. - HEIRS 1	(N/A)	<Null>	P & A		12/10/1921	7/28/1960	<Null>	<Null>	<Null>	<Null>
4706100186	HELMICK, EDNA M. 1	(N/A)	<Null>	P & A		1/26/1947	1/26/1947	1/1/1947	<Null>	<Null>	<Null>
4706100395	SAGO, DAVID K. 7764	EASTERN GAS TRANSMISSION AND STORAGE, INC	<Null>	P & A		1/13/2000	1/7/2000	9/11/2001	9/21/2001	1/1/1979	<Null>
4706101278	(5007) F2-215	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A	8/20/1997		7/10/1997	7/31/1997	8/20/1997	<Null>	<Null>
4706101303	CHISLER, ERIC D. F2-442	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A	3/24/1998		2/13/1998	2/10/1998	3/24/1998	<Null>	<Null>
4706101310	WE WV05249	DIVERSIFIED ENERGY	<Null>	P & A	4/16/1999		3/24/1998	<Null>	1/1/2001	1/1/2001	<Null>
4706101322	WE WV 5357	CONSOL	<Null>	P & A		12/1/1998	11/23/1998	<Null>	1/1/2001	1/1/2001	<Null>
4706101332	COWELL, ARTHUR 5420	CONSOL	<Null>	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.	<Null>	P & A		5/21/1999	5/5/1999	5/4/1999	6/25/1999	<Null>	<Null>
4706101367	MILLER, JACKIE W JR 5422	CONSOL	<Null>	P & A	6/11/1999		5/26/1999	<Null>	1/1/2001	1/1/2001	<Null>
4706101396	HOWARD, KYLE F2-459	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		10/17/2000	10/11/2000	10/13/2000	11/14/2000	<Null>	<Null>
4706101389	HOWARD, KYLE F2-458	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		11/14/2000	11/2/2000	11/15/2000	12/2/2000	<Null>	<Null>
4706101412	TENNANT 2	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		7/3/2001	6/28/2001	7/3/2001	8/3/2001	<Null>	<Null>
4706101428	EASTERN ASSOCIATED COAL F2-475	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		11/16/2001	11/6/2001	12/18/2001	1/17/2002	<Null>	<Null>
4706101274	HOPE 427-F2-194	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		7/8/1997	6/9/1997	6/11/1997	7/8/1997	<Null>	<Null>
4706101331	WALLS, DONCEL 5419	CONSOL	<Null>	P & A		5/17/1999	5/7/1999	<Null>	1/1/2001	1/1/2001	<Null>
4706101365	COLE, RICHARD F2-462	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		6/10/1999	6/8/1999	6/7/1999	7/20/1999	<Null>	<Null>
4706101375	WEWV 05470	CONSOL	<Null>	P & A		11/2/1999	10/13/1999	<Null>	1/1/2001	1/1/2001	<Null>
4706101385	PENN 4	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		3/3/2000	2/24/2000	2/23/2000	3/21/2000	<Null>	<Null>
4706101390	HOWARD, KYLE F2-457	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		5/31/2000	5/30/2000	6/7/2000	7/5/2000	<Null>	<Null>
4706101394	BAIRD, BETTY F2-446	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		9/8/2000	9/5/2000	9/8/2000	10/27/2000	<Null>	<Null>
4706101413	MARSHALL, THOMAS F2-477	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		7/26/2001	7/25/2001	8/2/2001	8/30/2001	<Null>	<Null>
4706100949	AMMONS, DONZEL F2-440	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		1/10/2000	1/5/1900	1/10/2000	1/21/2000	8/1/1988	<Null>
4706101135	GARRISON HEIRS	A V COMPANY	<Null>	P & A		10/1/1994	9/30/1993	<Null>	10/1/1994	<Null>	<Null>
4706101239	SHRIVER, HOWARD WEWV-5133	CONSOL	<Null>	P & A		5/3/1996	4/29/1996	<Null>	4/12/1996	1/1/1997	<Null>
4706101309	WEWV05250 (3R1)	DIVERSIFIED ENERGY	<Null>	P & A		4/16/1998	3/24/1998	<Null>	4/1/2001	4/1/2001	<Null>
4706101321	ELLEN EDDY 7	EASTERN ASSOCIATED COAL/PEABODY COAL CO.	<Null>	P & A		11/20/1998	10/30/1998	10/26/1998	12/10/1998	<Null>	<Null>
4706101366	BARTHOLEMW, RICHARD A 5421	CONSOL	<Null>	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.	<Null>	P & A		12/26/2000	12/21/2000	12/28/2000	2/16/2001	<Null>	<Null>
4706100058	WISE & TENNANT 5	YOST, GENE D. & SARA E.	<Null>	P & A		8/23/1935	8/23/1935	7/29/1935	<Null>	<Null>	<Null>
4706100159	HARKER, JOHN O. 1	(N/A)	<Null>	P & A		12/10/1921	4/17/1962	<Null>	<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.

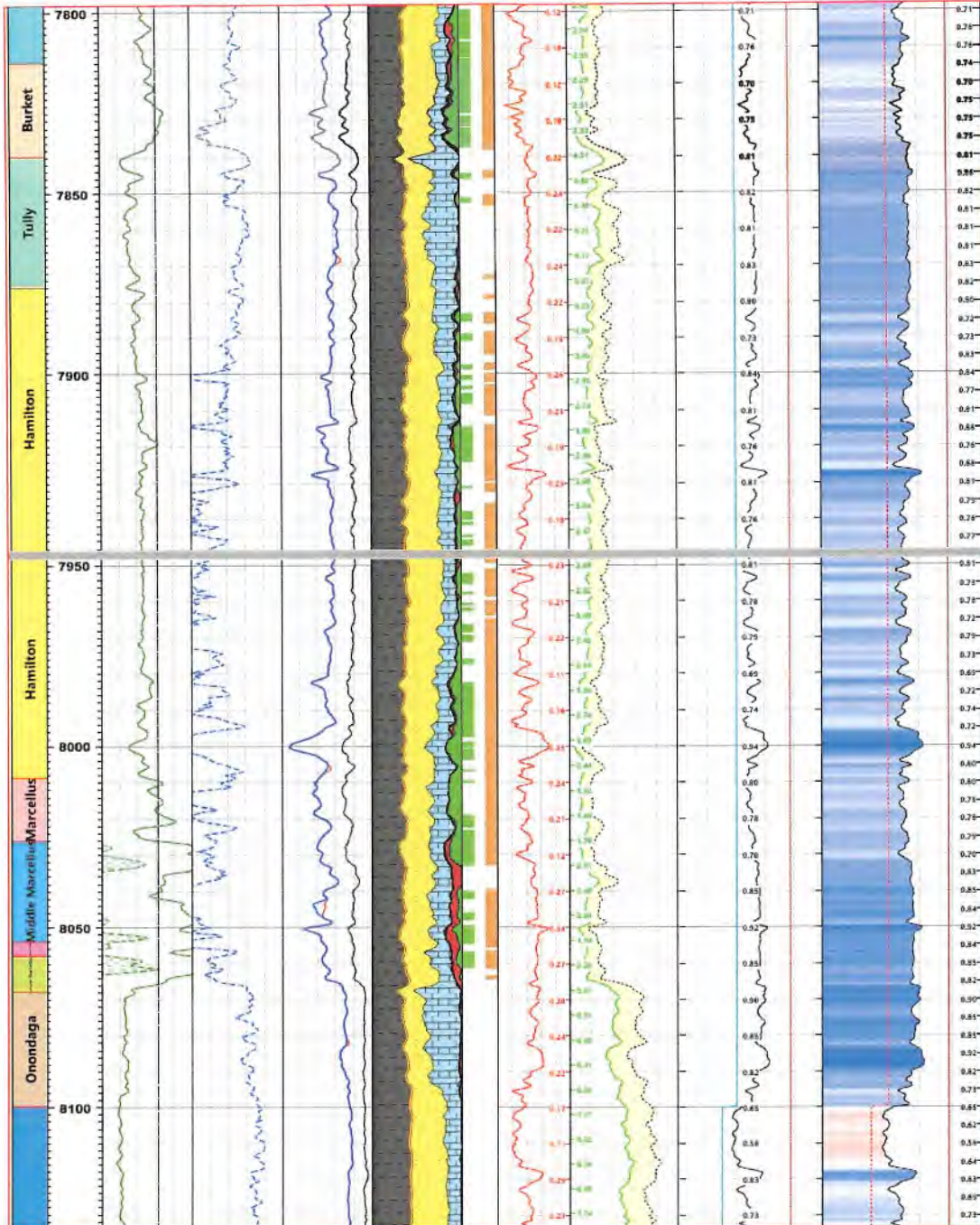
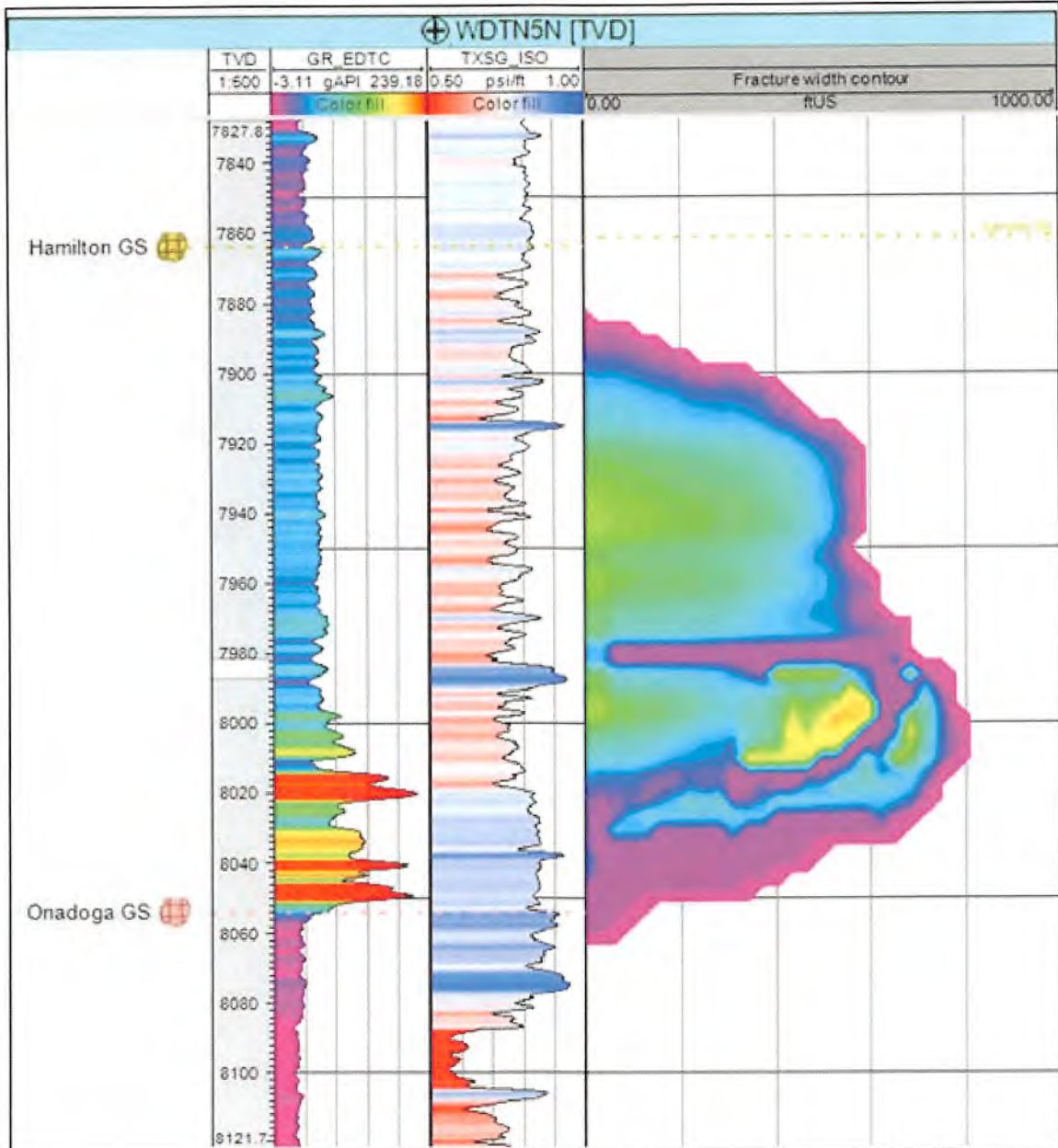


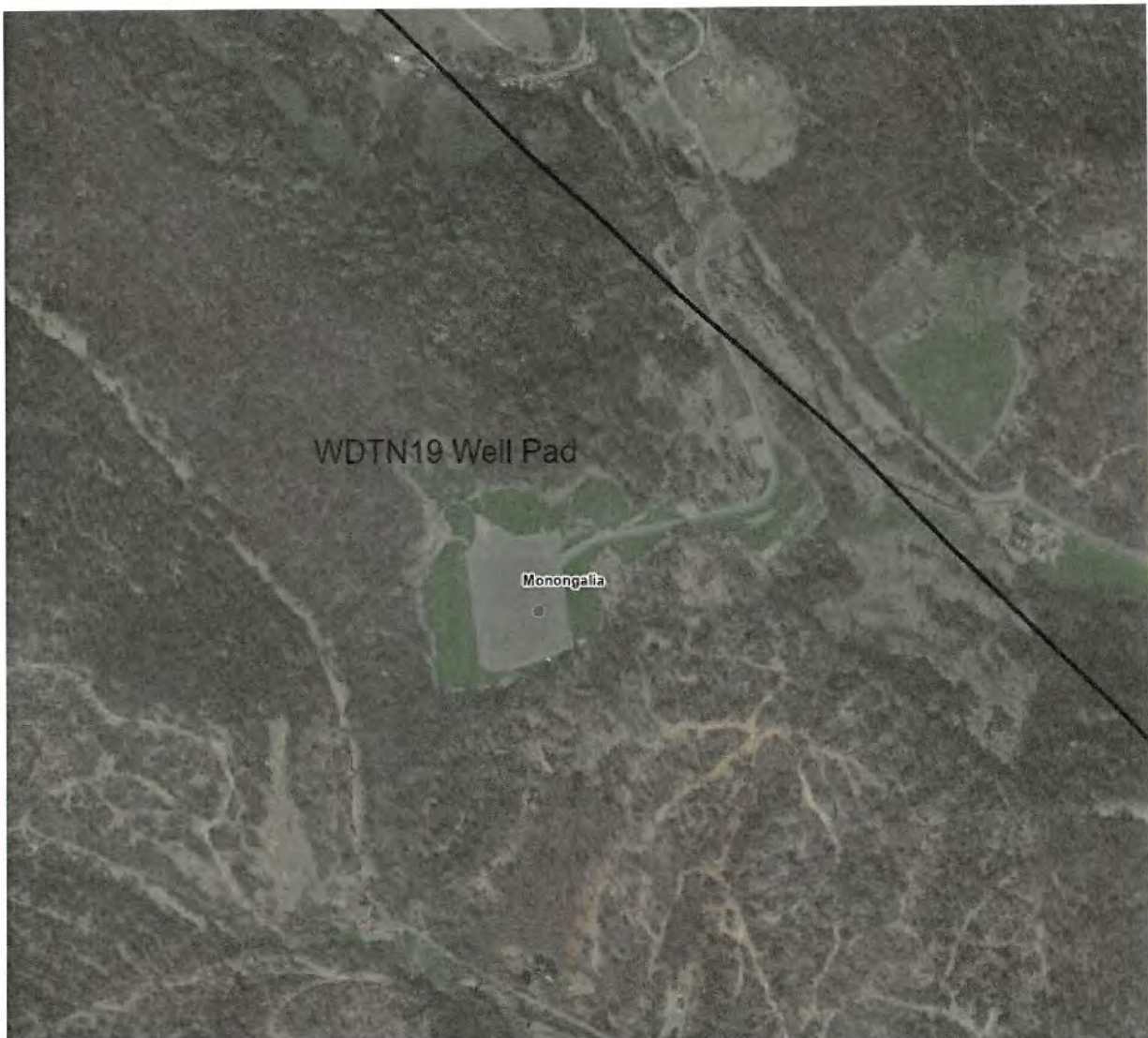
Figure 4. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the WDTN5B. Frac modeling yields a frac height of approximately 200'.





**Site Safety Plan for Wells
WDTN19RHSM
CNX Gas Company, LLC.**

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 09:21:51 -0400

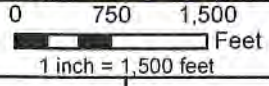
Date: _____



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

Legend

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



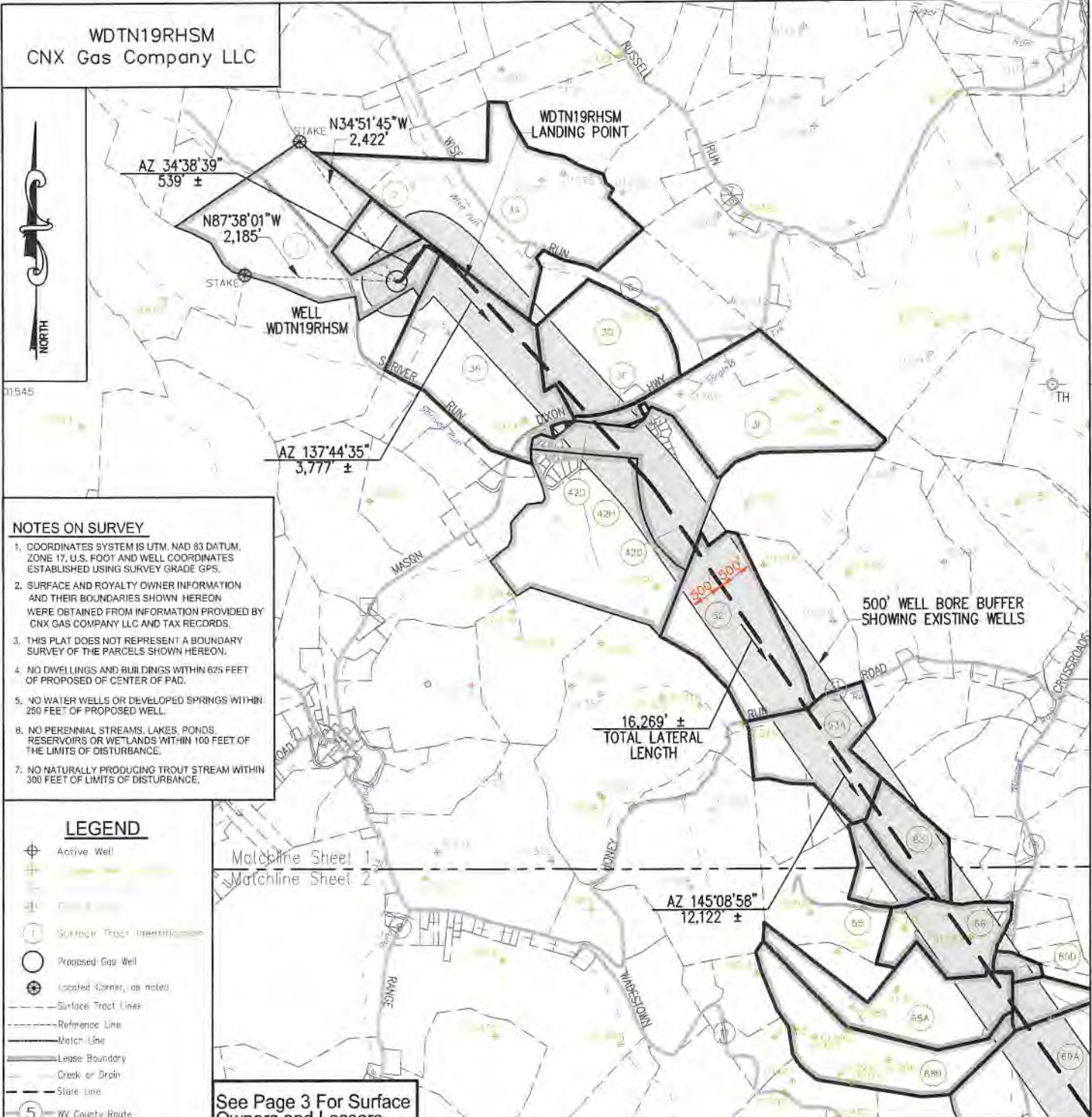
Original Date: 7/19/2022 Prepared By: GIS

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 OF 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
 - Located Corner, as noted
 - Surface Tract Lines
 - Reference Line
 - Match Line
 - Lease Boundary
 - Creek or Drain
 - Stake 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

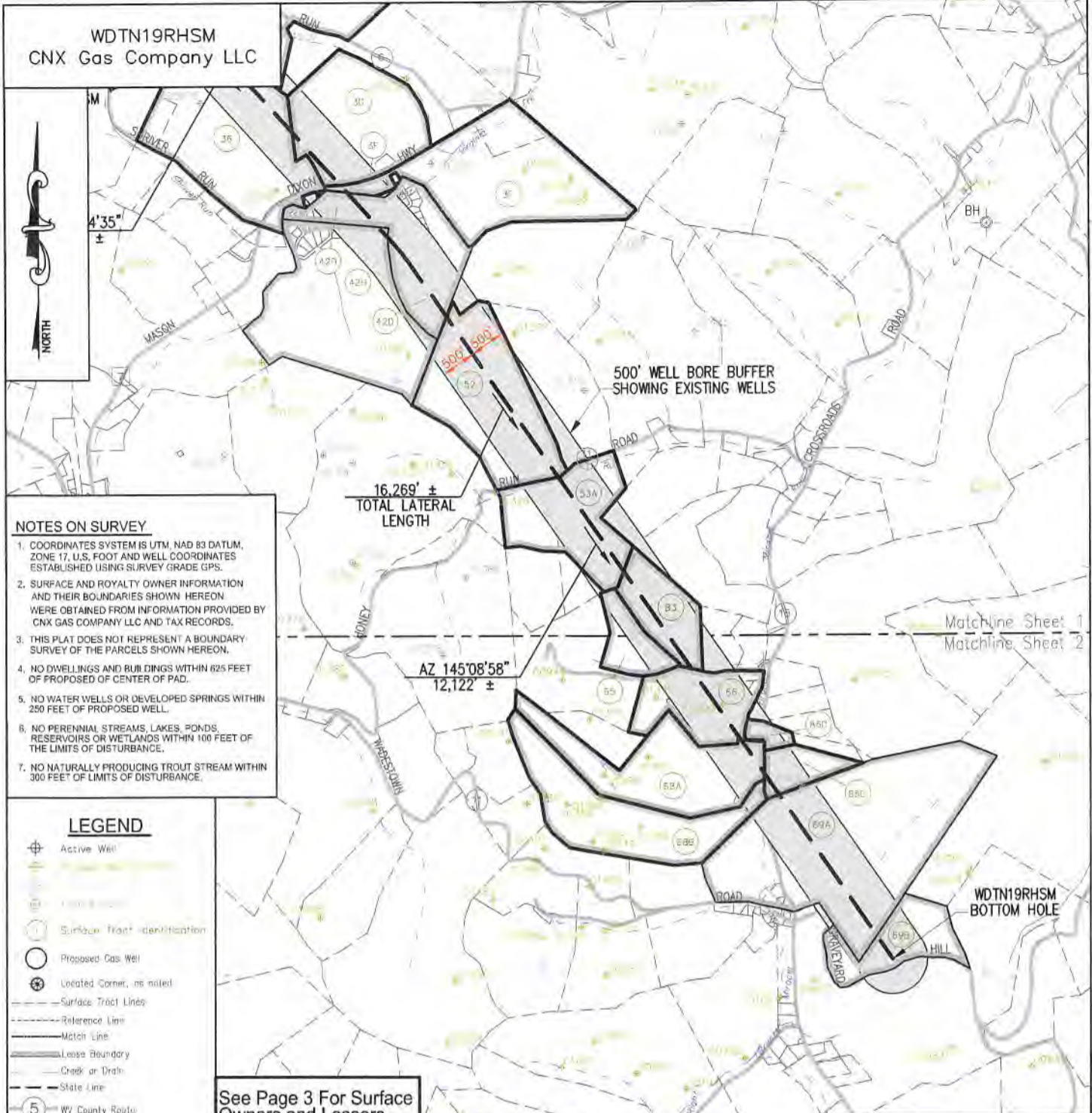


FILE NO:
DRAWING NO:
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: JULY 20 20 22
OPERATORS WELL NO:
API WELL NO: 47 - 061 - 01905
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



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 825 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
 - Leased Corner, as noted
 - Surface Tract Lines
 - Reference Line
 - Match Line
 - Lease Boundary
 - Creek or Drain
 - State Line
 - WV County Route
 - WV State Route

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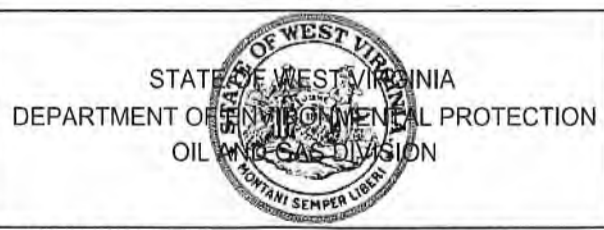


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smit
L. L. S. 687



FILE NO: _____
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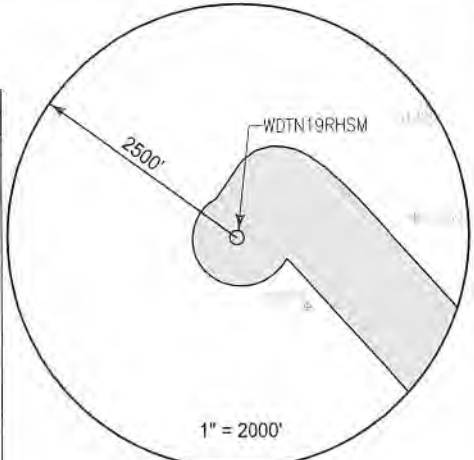


DATE: JULY 20 20 22
OPERATORS WELL NO: _____
API WELL NO: 47 - 061 - 01905
STATE COUNTY PERMIT

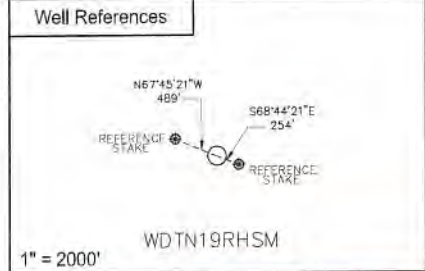
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION: 1264.30' WATERSHED: Dunkard Creek QUADRANGLE: Wadestown
DISTRICT: Batelle COUNTY: Monongalia
SURFACE OWNER: CNX Gas Company LLC ACREAGE: 96.91 ±
ROYALTY OWNER: Three Rivers Royalty II, LLC, 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 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 Deborah 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	1-8-9



SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N: 4393926.766	
E: 556996.638	
NAD 83, WV NORTH	
N: 435721.9081	
E: 1733468.9556	
LAT/LON DATUM NAD 83	
LAT: 39°41'35.8205"	
LON: 80°20'06.8799"	
LANDING POINT	
UTM 17 NAD 83	
N: 4393944.943	
E: 557293.353	
NAD 83, WV NORTH	
N: 435765.2846	
E: 1734443.5822	
LAT/LON DATUM NAD 83	
LAT: 39°41'36.3386"	
LON: 80°19'54.4168"	

2	CNX Gas Company LLC	Three Rivers Royalty, II, LLC Jack T. Livengood and Mary Jo Livengood Elizabeth L. March Deborah Rae Manning, a/k/a Deborah R. Manning, a/k/a Deborah R. Manning and Robert Manning Kathryn Rew Becker and Michael Compton	1-8-9
---	---------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------

WDTN19 WELL PAD		BOTTOM HOLE LOCATION (BHL)	
WDTN19EHSM		UTM 17 NAD 83	
WDTN19DHSM		N: 4390023.627	
WDTN19BHSM		E: 560314.008	
WDTN19CHSM		NAD 83, WV NORTH	
WDTN19FHSM		N: 422732.4602	
WDTN19AHSM		E: 1744140.4545	
WDTN19RHSM		LAT/LON DATUM NAD 83	
		LAT: 39°39'28.4030"	
		LON: 80°17'48.8868"	



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.

L. L. S.
L. L. S. 687



SEAL

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



DATE: JULY 20 20 22
OPERATORS WELL NO:
API WELL NO: 47 - 061 - 01905
STATE COUNTY PERMIT

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

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DISTRICT: Batelle COUNTY: Monongalia

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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
3A	Barbara S. Shriver, et al	S. H. Shiver and Lucretia Shiver, his wife	1-8-8 1-8-12 1-8-12.1
		South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CNG Power Company Dominion Transmission, Inc. CONSOL Energy Holdings LLC XVI CONSOL Gas Company	
3D	Howard A. Shriver Estate	S. H. Shiver and Lucretia Shiver, his wife	1-8-24.1
		South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CNG Power Company Dominion Transmission, Inc. CONSOL Energy Holdings LLC XVI CONSOL Gas Company	
3F	CNX RCPC LLC, et al	S. H. Shiver and Lucretia Shiver, his wife	1-13-36 1-13-33 1-13B-72 THROUGH 1-13B-82
		South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CNG Power Company Dominion Transmission, Inc. CONSOL Energy Holdings LLC XVI CONSOL Gas Company	
TRACT ID	SURFACE OWNER	LESSOR	PIN
36	George D. Six, et al	William B. Richardson	1-8-11 1-8-11.1 1-13-24 1-13-25 1-13B-81 1-13B-85 1-13B-86 1-13B-87
		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.	
42D	CNX RCPC LLC, et al	Norman Core, Gregory Shriver, and Francis M. Bland, Trustees of West Warren Baptist Church	1-13B-16 THROUGH 1-13B-45 1-13B-57 THROUGH 1-13B-70 1-13-24 1-13-25
		William B. Richardson 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.	

09/02/2022

TRACT ID	SURFACE OWNER	LESSOR	PIN
42H	CNX RCPC LLC, et al	Norman Core, Gregory Shriver, and Francis M. Bland, Trustees of West Warren Baptist Church	1-13-24 1-13-25 1-13B-41 THROUGH 1-13B-54
		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.	
52	Hampton D. Cottrell	Dorothy Cross James Tolbert and Sue E. Tolbert, h/w Emerson Cross and Mary Louise Cross, h/w Richard Cross and Shirley A. Cross David W. Tolbert Danny Tolbert, Jr a/k/a Danny G. Tolbert, Jr., Ferguson Cherri Sellers and Warren Sellers, h/w Hampton Cottrell and Mary M. Cottrell, h/w 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.	1-13-31.1
53A	Randy Hennen	Randy A. Hennen, a/k/a Randy Hennen, unmarried	1-13-30 1-13-30.1
		John E. Kime, a widower	
TRACT ID	SURFACE OWNER	LESSOR	PIN
65	Jackie W. Miller Jr.	Jackie W. Miller, Jr. and Carol Ann Miller, h/w	1-13-38
		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.	
66	Eric Dale Chisler, et al	Paul E. Keener II, a married man Kimberly A. Keener, a married woman	1-13-29 1-13-40 1-13-41 1-13-41.1 1-13-41.2 1-13-42 1-13-43
68A	Roy D. Chisler, et ux	Raymond P. Gaston, aka Ray Gaston, aka Ray Parish Gaston, and Pamela J. Gaston	1-18-9 1-18-10
		P&P Fujimo LLC R. Parrish Gaston Paul R. Gaston EQT Production Company Janet Watkins Rose Marie Shape Ruth Ann Tallman Juanita Ely Benjamin C. Wirick Vivian Petoskey Morris Mountaineer Oil and Gas LLC Sidney Austin Smith Trust LLC Thomas E. Ross Richard M. Ross Debra L. Mason and Richard A. Mason Carol Curtis Dwight E. Jackson Judy Wirick Dwight Herd Michael Delbert Herd Christine Ann Boyd Charles Patrick Herd and Leane C. Herd Bruce A. Davie, Jr. Polly Anna Eddy Morrison Fryman Robert W. Davie and Lisa D. Davie Jerry L. Hoffman Cheryl J. Bosse Rodney A. Bosse Clarence S. Willard JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust U/A dated November 15, 1988	

09/02/2022

Roy Dale Chisler and Twyla Leah Chisler
 WV Minerals, Inc.
 Sharon M. Flann
 Stephen J. Dawson
 Martha E. Menzies and William S. Menzies
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 James E. Eddy and Ronda S. Eddy, his wife
 Kenneth R. Eddy and Natalie A. Eddy, his wife
 Mary Lou Verbosky
 Louise A. Stewart England
 Michael J. Eddy and Natilie A. Eddy, h/w
 Northeast Natural Energy LLC
 Waco Oil & Gas Co., Inc.; I.L. Morris, Mike Ross, Inc.; Mike Ross
 XTO Energy Inc.
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 Wendy Dawn Lemley
 Randall M. Spragg and Lisa M. Spragg, Co-Trustees under
 Revocable Trust Agreement of Randall M. Spragg, dated
 October 24, 2007
 Toledo Animal Shelter

TRACT ID	SURFACE OWNER	LESSOR	PIN
68B	Opal Howard	Bounty Minerals, LLC	1-18-8

Lola Drilling I, LLC
 Rice Drilling B LLC
 Raymond P. Gaston, aka Ray Gaston, aka Ray Parish Gaston,
 and Pamela J. Gaston
 P&P Fujimo LLC
 R. Parrish Gaston
 Paul R. Gaston
 EQT Production Company
 Janet Watkins
 Rose Marie Shape
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 Vivian Petoskey
 Morris Mountaineer Oil and Gas LLC
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 Denzil Ray Hibbs
 Janie Loise Gram
 Northeast Natural Energy LLC

 Waco Oil & Gas Co., Inc.; I.L. Morris, Mike Ross, Inc.; Mike Ross

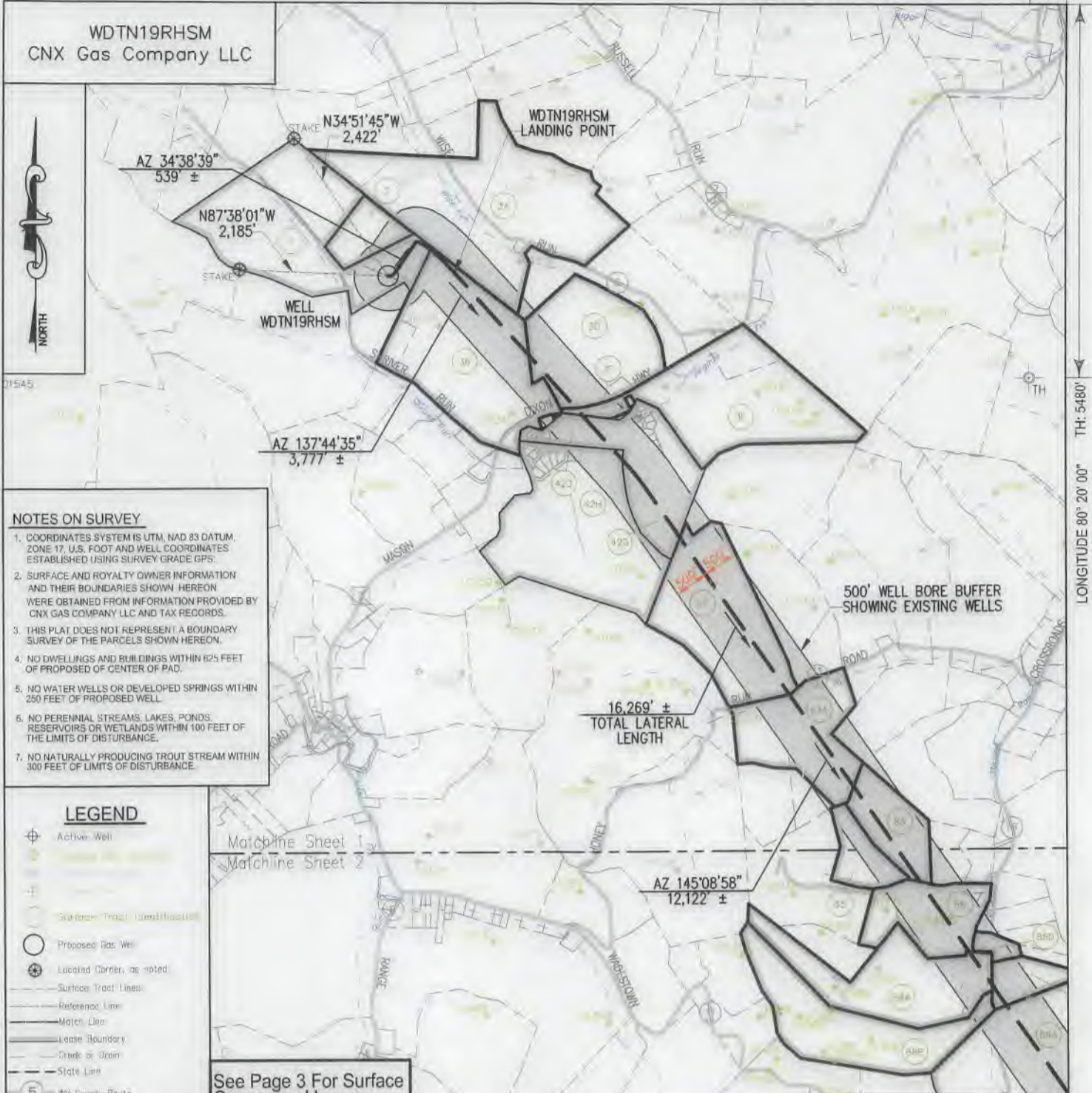
 XTO Energy Inc.

TRACT ID	SURFACE OWNER	LESSOR	PIN
69A	Timothy Clovis, et ux, et al	Darrell W. Ringer, Deputy Commissioner of Delinquent and Nonentered Lands of Monongalia County, West Virginia	1-17-4 1-18-12 1-18-12.1 1-18-12.2 1-18-13
		DominionExploration and Production, Inc. Consol Gas Company Morris Mountaineer Oil and Gas LLC The Sidney Austin Smith Trust, LLC Ridgetop Appalachia LLC JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust U/A dated November 15, 1988 Terry O. Hendershot and Mary M. Hendershot, husband and wife Helen M. Burton, a single woman Ryan C. Radtka and Susan Renee Radtka, husband and wife Northeast Natural Energy LLC XTO Energy, Inc	

09/02/2022

69B	Mary M. Lunsford	Darrell W. Ringer, Deputy Commissioner of Delinquent and Nonentered Lands of Monongalia County, West Virginia	1-17-4
		DominionExploration and Production, Inc. Consol Gas Company	
		Morris Mountaineer Oil and Gas LLC	
		The Sidney Austin Smith Trust, LLC	
		Ridgetop Appalachia LLC	
		JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust U/A dated November 15, 1988	
		Terry O. Hendershot and Mary M. Hendershot, husband and wife	
		Helen M. Burton, a single woman	
		Ryan C. Radtka and Susan Renee Radtka, husband and wife	
		Northeast Natural Energy LLC	
		Northeast Natural Energy LLC	
		XTO Energy, Inc	
TRACT ID	SURFACE OWNER	LESSOR	PIN
83	Jackie W. Miller Jr.	Jackie W. Miller, Jr. and Carol Ann Miller, h/w	1-13-38
		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.	
85D	Richard D. Tennant, et ux	Bounty Minerals LLC	1-18-11
		Bounty Minerals III Acquisitions LLC	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
		Shuman, Inc.	
		Antero Resources Corporation	
		Richard Dale Tennant and Vickie Lynn Tennant, h/w	
85E	Eric Dale Chisler	Bounty Minerals LLC	1-17-1
		Bounty Minerals III Acquisitions LLC	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
		Shuman, Inc.	
		Antero Resources Corporation	
		Eric Dale Chisler	
		Northeast Natural Energy LLC	

09/02/2022



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: WDTN19 RHSM
API WELL NO: 47 - 061 - 01905
STATE COUNTY PERMIT

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

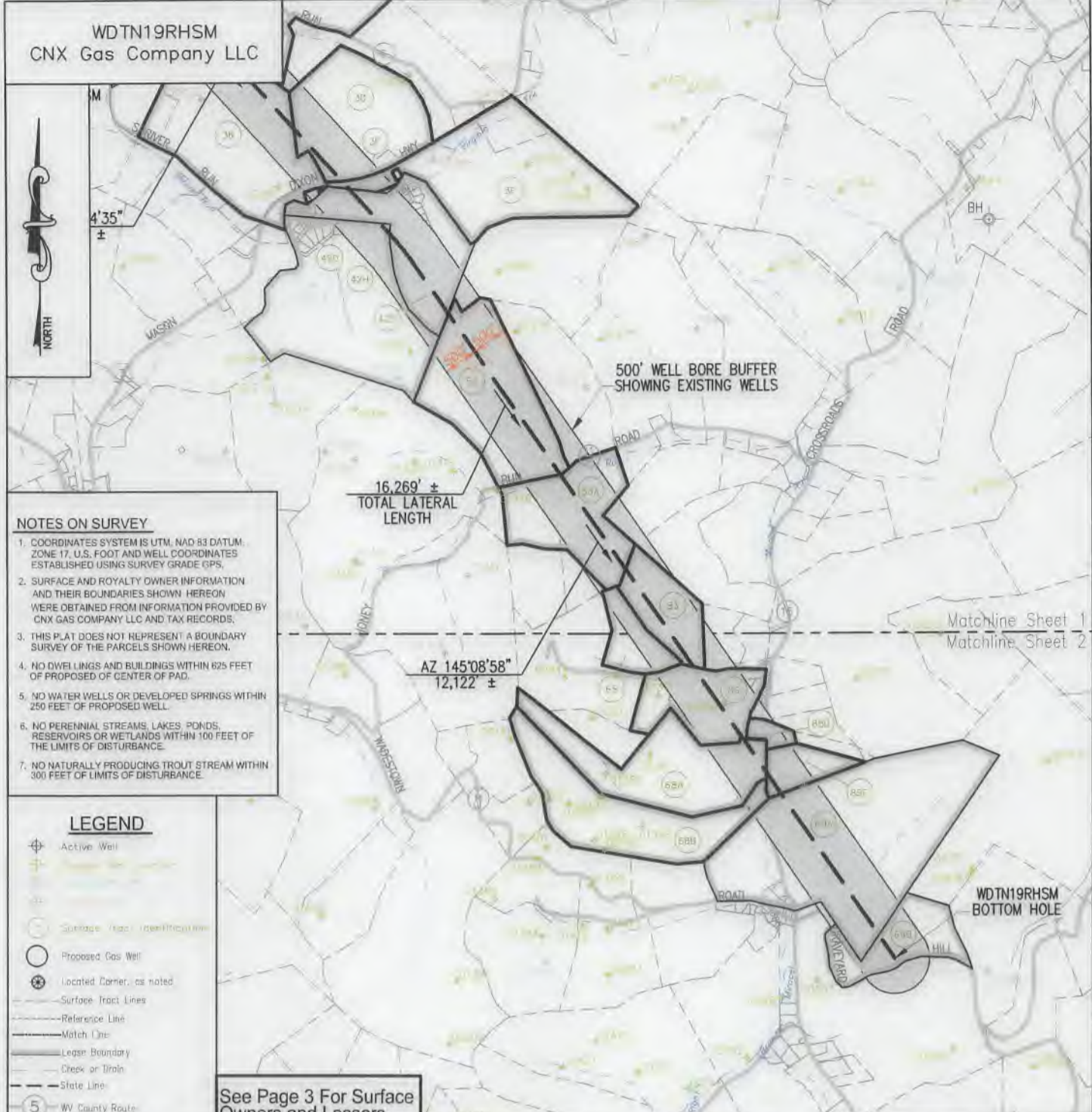
LOCATION ELEVATION: 1264.30' WATERSHED: Dunkard Creek QUADRANGLE: Wadestown
DISTRICT: Batelle COUNTY: Monongalia

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



- 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
 - 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

() Denotes Location of Well on United States Topographic Maps



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Thomas C. Smit
L. L. S. 687



FILE NO:
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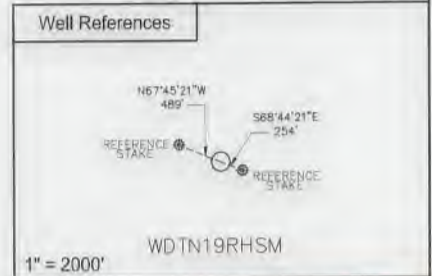
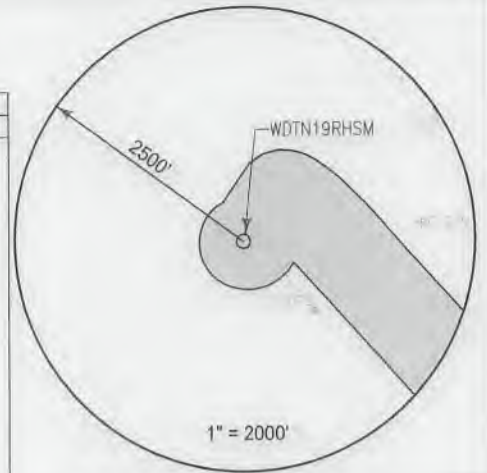


DATE: JULY 20 20 22
OPERATORS WELL NO:
API WELL NO: 47 - 061 -
STATE COUNTY PERMIT

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



SURFACE HOLE LOCATION (BHL)	
UTM 17 NAD 83	
N: 4393926.766	
E: 556995.638	
NAD 83, WV NORTH	
N: 435721.9081	
E: 1733468.9556	
LAT/LON DATUM NAD 83	
LAT: 39°41'35.8205"	
LON: 80°20'06.8799"	
LANDING POINT	
UTM 17 NAD 83	
N: 4393944.943	
E: 557293.353	
NAD 83, WV NORTH	
N: 435765.2846	
E: 1734443.5822	
LAT/LON DATUM NAD 83	
LAT: 39°41'38.3386"	
LON: 80°19'54.4168"	

TRACT ID	SURFACE OWNER	LESSOR	PIN
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	

WDTN19 WELL PAD		BOTTOM HOLE LOCATION (BHL)	
		UTM 17 NAD 83	
		N: 4390023.627	
		E: 560314.008	
		NAD 83, WV NORTH	
		N: 422732.4602	
		E: 1744140.4545	
		LAT/LON DATUM NAD 83	
		LAT: 39°39'28.4030"	
		LON: 80°17'48.8868"	



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.

L. L. S.
L. L. S. 687



SEAL

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



DATE: JULY 20 20 22
OPERATORS WELL NO: WDTN19RHSM
API WELL NO: 47 - 061 - 01905
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 ±
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PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
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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
3A	Barbara S. Shriver, et al	S. H. Shiver and Lucretia Shiver, his wife	1-8-8 1-8-12 1-8-12.1
		South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CNG Power Company Dominion Transmission, Inc. CONSOL Energy Holdings LLC XVI CONSOL Gas Company	
3D	Howard A. Shriver Estate	S. H. Shiver and Lucretia Shiver, his wife	1-8-24.1
		South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CNG Power Company Dominion Transmission, Inc. CONSOL Energy Holdings LLC XVI CONSOL Gas Company	
3F	CNX RCPC LLC, et al	S. H. Shiver and Lucretia Shiver, his wife	1-13-36 1-13-33 1-13B-72 THROUGH 1-13B-82
		South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CNG Power Company Dominion Transmission, Inc. CONSOL Energy Holdings LLC XVI CONSOL Gas Company	
TRACT ID	SURFACE OWNER	LESSOR	PIN
36	George D. Six, et al	William B. Richardson	1-8-11 1-8-11.1 1-13-24 1-13-25 1-13B-81 1-13B-85 1-13B-86 1-13B-87
		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.	
42D	CNX RCPC LLC, et al	Norman Core, Gregory Shriver, and Francis M. Bland, Trustees of West Warren Baptist Church	1-13B-16 THROUGH 1-13B-45 1-13B-57 THROUGH 1-13B-70 1-13-24 1-13-25
		William B. Richardson 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.	

09/02/2022

TRACT ID	SURFACE OWNER	LESSOR	PIN
42H	CNX RCPC LLC, et al	Norman Core, Gregory Shriver, and Francis M. Bland, Trustees of West Warren Baptist Church	1-13-24 1-13-25 1-13B-41 THROUGH 1-13B-54
		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.	
52	Hampton D. Cottrell	Dorothy Cross James Tolbert and Sue E. Tolbert, h/w Emerson Cross and Mary Louise Cross, h/w Richard Cross and Shirley A. Cross David W. Tolbert Danny Tolbert, Jr a/k/a Danny G. Tolbert, Jr., Ferguson Cherri Sellers and Warren Sellers, h/w Hampton Cottrell and Mary M. Cottrell, h/w 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.	1-13-31.1
53A	Randy Hennen	Randy A. Hennen, a/k/a Randy Hennen, unmarried John E. Kime, a widower	1-13-30 1-13-30.1
65	Jackie W. Miller Jr.	Jackie W. Miller, Jr. and Carol Ann Miller, h/w 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.	1-13-38
66	Eric Dale Chisler, et al	Paul E. Keener II, a married man Kimberly A. Keener, a married woman	1-13-29 1-13-40 1-13-41 1-13-41.1 1-13-41.2 1-13-42 1-13-43
68A	Roy D. Chisler, et ux	Raymond P. Gaston, aka Ray Gaston, aka Ray Parish Gaston, and Pamela J. Gaston P&P Fujimo LLC R. Parrish Gaston Paul R. Gaston EQT Production Company Janet Watkins Rose Marie Shape Ruth Ann Tallman Juanita Ely Benjamin C. Wirick Vivian Petoskey Morris Mountaineer Oil and Gas LLC Sidney Austin Smith Trust LLC Thomas E. Ross Richard M. Ross Debra L. Mason and Richard A. Mason Carol Curtis Dwight E. Jackson Judy Wirick Dwight Herd Michael Delbert Herd Christine Ann Boyd Charles Patrick Herd and Leane C. Herd Bruce A. Davie, Jr. Polly Anna Eddy Morrison Fryman Robert W. Davie and Lisa D. Davie Jerry L. Hoffman Cheryl J. Bosse Rodney A. Bosse Clarence S. Willard JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust U/A dated November 15, 1988	1-18-9 1-18-10

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 Waco Oil & Gas Co., Inc.; I.L. Morris, Mike Ross, Inc.; Mike Ross

 XTO Energy Inc.

TRACT ID	SURFACE OWNER	LESSOR	PIN
69A	Timothy Clovis, et ux, et al	Darrell W. Ringer, Deputy Commissioner of Delinquent and Nonentered Lands of Monongalia County, West Virginia	1-17-4 1-18-12 1-18-12.1 1-18-12.2 1-18-13
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09/02/2022



API WELL NO
 47 - 061 - 01905
 STATE COUNTY PERMIT

69B	Mary M. Lunsford	Darrell W. Ringer, Deputy Commissioner of Delinquent and Nonentered Lands of Monongalia County, West Virginia	1-17-4
		DominionExploration and Production, Inc. Consol Gas Company	
		Morris Mountaineer Oil and Gas LLC	
		The Sidney Austin Smith Trust, LLC	
		Ridgetop Appalachia LLC	
		JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust U/A dated November 15, 1988	
		Terry O. Hendershot and Mary M. Hendershot, husband and wife	
		Helen M. Burton, a single woman	
		Ryan C. Radtka and Susan Renee Radtka, husband and wife	
		Northeast Natural Energy LLC	
		Northeast Natural Energy LLC	
		XTO Energy, Inc	
TRACT ID	SURFACE OWNER	LESSOR	PIN
83	Jackie W. Miller Jr.	Jackie W. Miller, Jr. and Carol Ann Miller, h/w	1-13-38
		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.	
85D	Richard D. Tennant, et ux	Bounty Minerals LLC	1-18-11
		Bounty Minerals III Acquisitions LLC	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
		Shuman, Inc.	
		Antero Resources Corporation	
		Richard Dale Tennant and Vickie Lynn Tennant, h/w	
85E	Eric Dale Chisler	Bounty Minerals LLC	1-17-1
		Bounty Minerals III Acquisitions LLC	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
		Shuman, Inc.	
		Antero Resources Corporation	
		Eric Dale Chisler	
		Northeast Natural Energy LLC	

09/02/2022

WW-6A1
(5/13)

Operator's Well No. WDTN19RHSM

**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: David Wilson
 Its: Permitting Services Mgr

Tract ID	Tax Map & Parcel #	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
				Martha E. Menzies and William S. Menzies	Northeast Natural Energy LLC	Not less than 1/8	1630/43
				Andrew T. Stewart and Cathy Stewart	Northeast Natural Energy LLC	Not less than 1/8	1657/343
				Betty Pittcock	Northeast Natural Energy LLC	Not less than 1/8	1642/398
				Kelly J. Kelly and Dennis Kelly	Northeast Natural Energy LLC	Not less than 1/8	1642/382
				Charlene K. Crappnell and Larry E. Crappnell	Northeast Natural Energy LLC	Not less than 1/8	1645/276
				Darlene Newson and Michael Newson	Northeast Natural Energy LLC	Not less than 1/8	1645/274
				Ricky Kaye Peaslee	Northeast Natural Energy LLC	Not less than 1/8	1753/110
				Maxine Wirick	Northeast Natural Energy LLC	Not less than 1/8	1651/143
				Staci L. Dawson	Northeast Natural Energy LLC	Not less than 1/8	1610/846
				Wilma J. Ross	Northeast Natural Energy LLC	Not less than 1/8	1633/499
				Amber N. Cubberly and Dustin Cubberly, her husband	Northeast Natural Energy LLC	Not less than 1/8	1610/844
				Christina K. Benson and James B. Benson, her husband	Northeast Natural Energy LLC	Not less than 1/8	1610/844
				James E. Eddy and Ronda S. Eddy, his wife	Northeast Natural Energy LLC	Not less than 1/8	1619/836
				Kenneth R. Eddy and Natalie A. Eddy, his wife	Northeast Natural Energy LLC	Not less than 1/8	1619/838
				Mary Lou Verbosky	Northeast Natural Energy LLC	Not less than 1/8	1629/176
				Louise A. Stewart England	Northeast Natural Energy LLC	Not less than 1/8	1630/261
				Michael J. Eddy and Natalie A. Eddy, h/w	Northeast Natural Energy LLC	Not less than 1/8	1607/644
				Northeast Natural Energy LLC	CNX Gas Company LLC	Agreement	1773/111
				Waco Oil & Gas Co., Inc.; L.L. Morris, Mike Ross, Inc.; Mike Ross	XTO Energy Inc.	Fee	1442/835
				XTO Energy Inc	CNX Gas Company LLC	Agreement	1773/154
				Gary A. Spragg	CNX Gas Company LLC	Not less than 1/8	151/335
				Richard A. Stewart	CNX Gas Company LLC	Not less than 1/8	151/335
				Joyce Lydic	CNX Gas Company LLC	Not less than 1/8	151/335
				Thomas L. Hoffman	CNX Gas Company LLC	Not less than 1/8	151/335
				Kyle J. Davie	CNX Gas Company LLC	Not less than 1/8	151/335
				Summer G. Johnson	CNX Gas Company LLC	Not less than 1/8	151/335
				Jessica L. Baum a/k/a Jessica L. Gerwells	CNX Gas Company LLC	Not less than 1/8	151/335
				James Eric Davie	CNX Gas Company LLC	Not less than 1/8	151/335
				Susan Kimbrell	CNX Gas Company LLC	Not less than 1/8	151/335
				Wendy Dawn Lemley	CNX Gas Company LLC	Not less than 1/8	151/335
				Randall M. Spragg and Lisa M. Spragg, Co-Trustees under Revocable Trust Agreement of Randall M. Spragg, dated October 24, 2007	CNX Gas Company LLC	Not less than 1/8	151/335
				Toledo Animal Shelter	CNX Gas Company LLC	Not less than 1/8	151/335
688	1-18-B	257917000	Opal Howard				
				Bounty Minerals, LLC	Lola Drilling I, LLC	Not less than 1/8	1586/340
				Lola Drilling I, LLC	Rice Drilling B LLC	Assignment	133/752
				Rice Drilling B, LLC	CNX Gas Company LLC	Assignment	153/744
				Raymond P. Gaston, aka Ray Gaston, aka Ray Parish Gaston, and Pamela J. Gaston	EQT Production Company	Not less than 1/8	1553/659
				P&P Fujimo LLC	EQT Production Company	Not less than 1/8	1586/43
				R. Parish Gaston	EQT Production Company	Not less than 1/8	1594/141
				Paul R. Gaston	EQT Production Company	Not less than 1/8	1602/60
				EQT Production Company	CNX Gas Company LLC	Assignment	153/744
				Janet Watkins	CNX Gas Company LLC	Not less than 1/8	1689/246
				Rose Marie Shupe	CNX Gas Company LLC	Not less than 1/8	1689/323
				Ruth Ann Tallman	CNX Gas Company LLC	Not less than 1/8	1689/236
				Juanita Ely	CNX Gas Company LLC	Not less than 1/8	1689/231
				Benjamin C. Wirick	CNX Gas Company LLC	Not less than 1/8	1754/370
				Vivian Petoskey	CNX Gas Company LLC	Not less than 1/8	1754/282
				Morris Mountaineer Oil and Gas LLC	CNX Gas Company LLC	Not less than 1/8	1757/235
				Sidney Austin Smith Trust LLC	CNX Gas Company LLC	Not less than 1/8	1757/250
				Thomas E. Ross	CNX Gas Company LLC	Not less than 1/8	1747/389
				Richard M. Ross	CNX Gas Company LLC	Not less than 1/8	1746/576
				Debra L. Mason and Richard A. Mason	CNX Gas Company LLC	Not less than 1/8	1748/421
				Carol Curtis	CNX Gas Company LLC	Not less than 1/8	1748/319
				Dwight E. Jackson	CNX Gas Company LLC	Not less than 1/8	1748/427
				Judy Wirick	CNX Gas Company LLC	Not less than 1/8	1748/433
				Dwight Herd	CNX Gas Company LLC	Not less than 1/8	1748/415
				Michael Delbert Herd	CNX Gas Company LLC	Not less than 1/8	1749/367
				Christine Ann Boyd	CNX Gas Company LLC	Not less than 1/8	1749/333
				Charles Patrick Herd and Leane C. Herd	CNX Gas Company LLC	Not less than 1/8	1752/408
				Bruce A. Davie, Jr.	CNX Gas Company LLC	Not less than 1/8	1755/606
				Patty Anna Eddy Morrison Fryman	CNX Gas Company LLC	Fee	1752/95
				Robert W. Davie and Lisa D. Davie	CNX Gas Company LLC	Not less than 1/8	1757/92
				Jerry L. Hoffman	CNX Gas Company LLC	Not less than 1/8	1762/332
				Cheryl J. Bosse	CNX Gas Company LLC	Not less than 1/8	1764/382
				Rodney A. Bosse	CNX Gas Company LLC	Not less than 1/8	1762/778
				Clarence S. Willard	CNX Gas Company LLC	Not less than 1/8	1752/24
				JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust L/A dated November 15, 1988	CNX Gas Company LLC	Not less than 1/8	1779/525
				Gary A. Spragg	CNX Gas Company LLC	Not less than 1/8	151/337
				Richard A. Stewart	CNX Gas Company LLC	Not less than 1/8	151/337
				Joyce Lydic	CNX Gas Company LLC	Not less than 1/8	151/337
				Thomas L. Hoffman	CNX Gas Company LLC	Not less than 1/8	151/337
				Kyle J. Davie	CNX Gas Company LLC	Not less than 1/8	151/337
				Summer G. Johnson	CNX Gas Company LLC	Not less than 1/8	151/337
				Jessica L. Baum a/k/a Jessica L. Gerwells	CNX Gas Company LLC	Not less than 1/8	151/337
				James Eric Davie	CNX Gas Company LLC	Not less than 1/8	151/337
				Susan Kimbrell	CNX Gas Company LLC	Not less than 1/8	151/337
				Daniel Balles	CNX Gas Company LLC	Not less than 1/8	151/337
				Joel Balles	CNX Gas Company LLC	Not less than 1/8	151/337
				Randall M. Spragg and Lisa M. Spragg, Co-Trustees under Revocable Trust Agreement of Randall M. Spragg, dated October 24, 2007	CNX Gas Company LLC	Not less than 1/8	151/337
				Toledo Animal Shelter	CNX Gas Company LLC	Not less than 1/8	151/337
				WV Minerals, Inc.	Northeast Natural Energy LLC	Not less than 1/8	1760/611
				Sharon M. Flann	Northeast Natural Energy LLC	Not less than 1/8	1611/35
				Stephen J. Dawson	Northeast Natural Energy LLC	Not less than 1/8	1611/767
				Martha E. Menzies and William S. Menzies	Northeast Natural Energy LLC	Not less than 1/8	1630/43
				Andrew T. Stewart and Cathy Stewart	Northeast Natural Energy LLC	Not less than 1/8	1657/343
				Betty Pittcock	Northeast Natural Energy LLC	Not less than 1/8	1642/398
				Kelly J. Kelly and Dennis Kelly	Northeast Natural Energy LLC	Not less than 1/8	1642/382
				Charlene K. Crappnell and Larry E. Crappnell	Northeast Natural Energy LLC	Not less than 1/8	1645/276
				Darlene Newson and Michael Newson	Northeast Natural Energy LLC	Not less than 1/8	1645/274
				Ricky Kaye Peaslee	Northeast Natural Energy LLC	Not less than 1/8	1753/110
				Opal Howard	Northeast Natural Energy LLC	Not less than 1/8	1598/438
				Maxine Wirick	Northeast Natural Energy LLC	Not less than 1/8	1651/143
				Staci L. Dawson	Northeast Natural Energy LLC	Not less than 1/8	1610/846
				Wilma J. Ross	Northeast Natural Energy LLC	Not less than 1/8	1633/499
				Amber N. Cubberly and Dustin Cubberly, her husband	Northeast Natural Energy LLC	Not less than 1/8	1610/844
				Christina K. Benson and James B. Benson, her husband	Northeast Natural Energy LLC	Not less than 1/8	1610/844
				James E. Eddy and Ronda S. Eddy, his wife	Northeast Natural Energy LLC	Not less than 1/8	1619/836
				Kenneth R. Eddy and Natalie A. Eddy, his wife	Northeast Natural Energy LLC	Not less than 1/8	1619/838
				Mary Lou Verbosky	Northeast Natural Energy LLC	Not less than 1/8	1629/176
				Louise A. Stewart England	Northeast Natural Energy LLC	Not less than 1/8	1630/261
				Michael J. Eddy and Natalie A. Eddy, h/w	Northeast Natural Energy LLC	Not less than 1/8	1607/644
				Judy Ann Heston	Northeast Natural Energy LLC	Not less than 1/8	1623/383
				Donna Fay Hibbs	Northeast Natural Energy LLC	Not less than 1/8	1623/385
				Denzil Ray Hibbs	Northeast Natural Energy LLC	Not less than 1/8	1623/387
				Anita Lohse Gram	Northeast Natural Energy LLC	Not less than 1/8	1623/388
				Northeast Natural Energy LLC	CNX Gas Company LLC	Agreement	1773/111

Tract ID	Tax Map & Parcel	Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
				Waco Oil & Gas Co., Inc.; L.L. Morris, Mike Ross, Inc.; Mike Ross XTO Energy, Inc.	XTO Energy, Inc. CNX Gas Company LLC	Fee Agreement	1442/835 1773/164
69A	1-17-4 1-18-12 1-18-12.1 1-18-12.2 1-18-13	240230000 E	Timothy Clovis, et ux, et al	Darrell W. Ringer, Deputy Commissioner of Delinquent and Nonentered Lands of Monongalia County, West Virginia	Dominion Exploration and Production, Inc.	Fee	1339/188
				Dominion Exploration and Production, Inc. Consol Gas Company	Consol Gas Company CNX Gas Company LLC	Name Change Merger	607 2/424
				Morris Mountaineer Oil and Gas LLC The Sidney Austin Smith Trust, LLC Ridgetop Appalachia LLC JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust U/A dated November 15, 1988	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	1757/235 1757/250 1750/120 1779/525
				Terry O. Hendershot and Mary M. Hendershot, husband and wife Helen M. Burton, a single woman Ryan C. Radtka and Susan Renee Radtka, husband and wife Northeast Natural Energy LLC	Northeast Natural Energy LLC Northeast Natural Energy LLC Northeast Natural Energy LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment	1604/260 1612/98 1612/96 153/116
				XTO Energy, Inc.	CNX Gas Company LLC	Agreement	1773/253
69B	1-17-4	240230000 E	Mary M. Lunsford	Darrell W. Ringer, Deputy Commissioner of Delinquent and Nonentered Lands of Monongalia County, West Virginia	Dominion Exploration and Production, Inc.	Fee	1339/188
				Dominion Exploration and Production, Inc. Consol Gas Company	Consol Gas Company CNX Gas Company LLC	Name Change Merger	607 2/424
				Morris Mountaineer Oil and Gas LLC The Sidney Austin Smith Trust, LLC Ridgetop Appalachia LLC JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust U/A dated November 15, 1988	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	1757/235 1757/250 1750/120 1779/525
				Terry O. Hendershot and Mary M. Hendershot, husband and wife Helen M. Burton, a single woman Ryan C. Radtka and Susan Renee Radtka, husband and wife Northeast Natural Energy LLC Northeast Natural Energy LLC	Northeast Natural Energy LLC Northeast Natural Energy LLC Northeast Natural Energy LLC CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Assignment Assignment	1604/260 1612/98 1612/96 153/116 1773/111
				XTO Energy, Inc.	CNX Gas Company LLC	Agreement	1773/253
83	1-13-38	263774000 E	Jackie W. Miller Jr.	Jackie W. Miller, Jr. and Carol Ann Miller, h/w	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.	Not less than 1/8 Name Change Assignment Assignment Name Change Merger Assignment Assignment	1175/144 DE Secretary of State 102/797 103/944 607 2/424 113/458 131/319
85D	1-18-11	240570000 E	Richard D. Tennant, et ux	Bounty Minerals LLC Bounty Minerals III Acquisitions LLC LOLA Drilling I, LLC Rice Drilling B, LLC	LOLA Drilling I, LLC LOLA Drilling I, LLC Rice Drilling B, LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Assignment Assignment	1586/4 1586/7 133/752 153/774
				Shuman, Inc. Antero Resources Corporation	Antero Resources Corporation CNX Gas Company LLC	Not less than 1/8 Assignment	1592/135 133/438
				Richard Dale Tennant and Vickie Lynn Tennant, h/w	CNX Gas Company LLC	Not less than 1/8	1685/631
85E	1-17-1	240570000 E	Eric Dale Chisler	Bounty Minerals LLC Bounty Minerals III Acquisitions LLC LOLA Drilling I, LLC Rice Drilling B, LLC	LOLA Drilling I, LLC LOLA Drilling I, LLC Rice Drilling B, LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Assignment Assignment	1586/4 1586/7 133/752 153/774
				Shuman, Inc. Antero Resources Corporation	Antero Resources Corporation CNX Gas Company LLC	Not less than 1/8 Assignment	1592/135 133/438
				Eric Dale Chisler Northeast Natural Energy LLC	Northeast Natural Energy LLC CNX Gas Company LLC	Not less than 1/8 Agreement	1770/583 1773/111



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.

Sincerely,

A handwritten signature in blue ink that reads 'Sarah Weigand'.

Sarah Weigand

09/02/2022

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

Date of Notice Certification: 7/26/22

API No. 47- _____
Operator's Well No. WDTN19RHSM
Well Pad Name: WDTN19

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	Eastings:	<u>556996.638</u>
County:	<u>Monongalia</u>		Northing:	<u>4393926.766</u>
District:	<u>Balelle</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><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>OOG OFFICE USE ONLY</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>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Required Attachments:

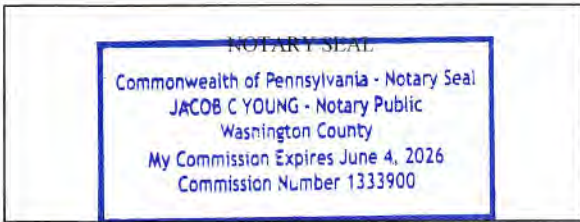
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

09/02/2022

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 <u>Sarah Weigand</u>		Canonsburg, PA 15317
Its:	Manager Permitting Services	Facsimile:	
Telephone:	724-485-3244	Email:	SarahWeigand@cnx.com



Subscribed and sworn before me this 26th day of July, 2022.

Jacob C Young Notary Public

My Commission Expires 6/4/2026

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.

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: 1/26/22 Date Permit Application Filed: 1/27/22

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

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

WW-6A
(8-13)

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

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.

WW-6A
(8-13)

API NO. 47-4706101905
OPERATOR WELL NO. WDTN19RHSM
Well Pad Name: WDTN19

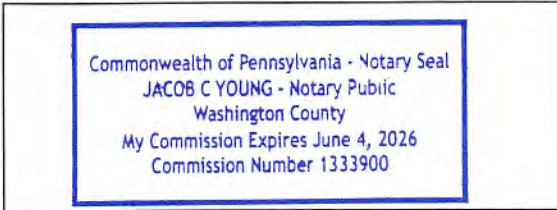
Notice is hereby given by:

Well Operator: Sarah Weigand *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.

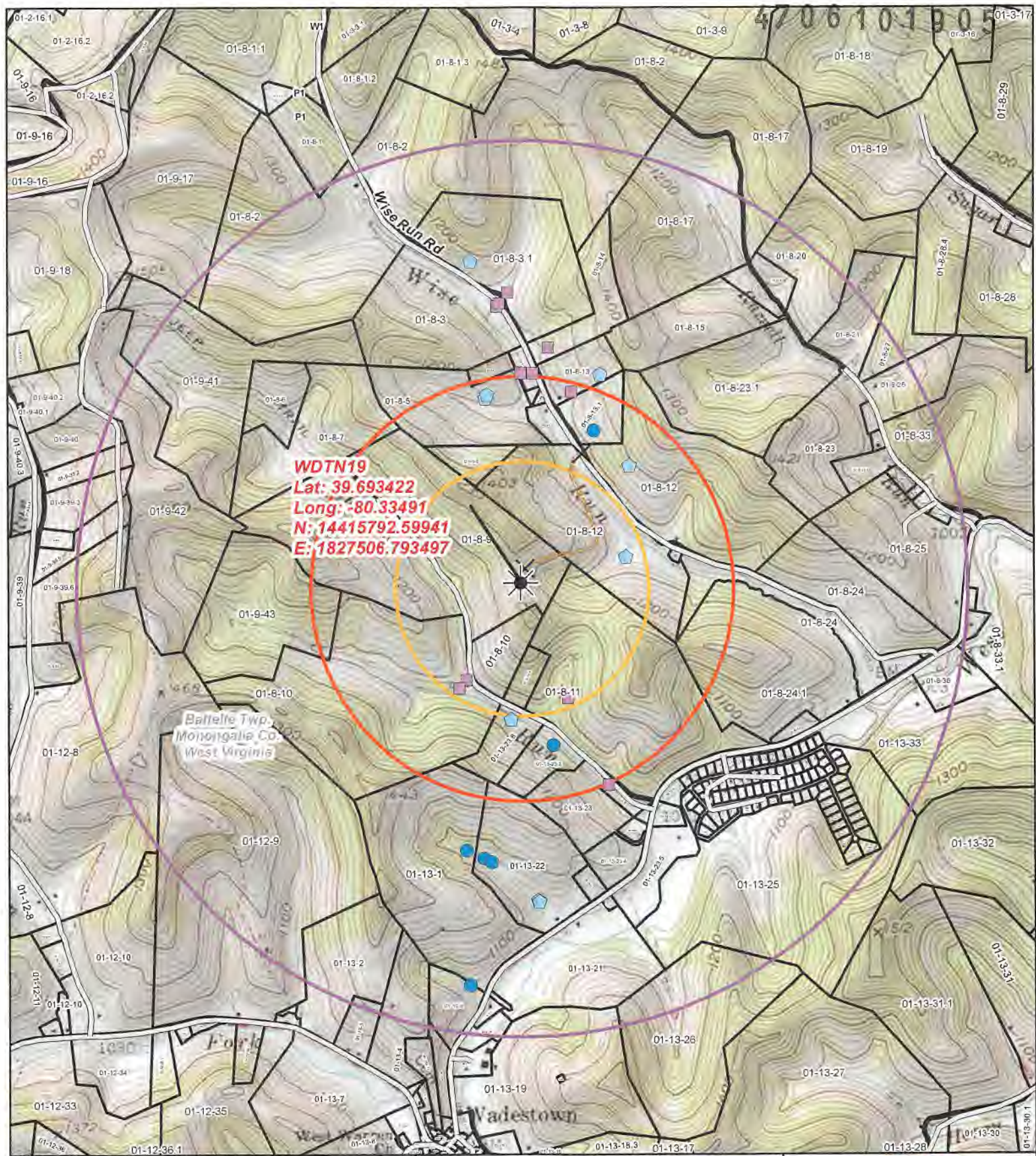


Subscribed and sworn before me this 26th day of July, 2022.

Jacob C Young Notary Public

My Commission Expires 6/4/2026

WDTN19RHSM 6A Notices	
Surface Owner	Address
CNX Gas Company LLC	1000 Consol Energy Drive Canonsburg, PA 15317
Surface Owner (Road and/or Other Disturbance)	Address
Barbara S Shriver	70 Wise Run Road Wana, WV 26590
PGH Coal Seam	
Coal Owner	Address
CONSOL RCPC LLC	Attn: Casey Saunders 275 Technology Drive Suite 101 Canonsburg, PA 15317-9565
All Other Coal Seams	
Coal Owner	Address
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 Atisvigi Court Brevard, NC 28712
Water Wells w/in 1500'	
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



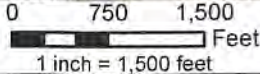
WDTN19
 Lat: 39.693422
 Long: -80.33491
 N: 14415792.59941
 E: 1827506.793497

Battelle Twp,
 Morgania 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

4706101905

WDTN19RHSM 6A4 Notices	
Surface Owner	Address
CNX Gas Company LLC	1000 Consol Energy Drive Canonsburg, PA 15317

09/02/2022

2703101905

WDTN19RHSM 6A5 Notices	
Surface Owner	Address
CNX Gas Company LLC	1000 Consol Energy Drive Canonsburg, PA 15317

09/02/2022

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Sarah Weigand, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>WEST VIRGINIA</u>	UTM NAD 83 Easting:	<u>556996.638</u>
County:	<u>MONONGALIA</u>	UTM NAD 83 Northing:	<u>4393926.766</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>		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

<p>*Please check the box that applies</p> <p><input checked="" type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>CNX GAS COMPANY LLC</u></p> <p>By: <u>Sarah Weigand</u></p> <p>Its: <u>Permitting Services Manager</u></p> <p>Signature: <u>Sarah Weigand</u></p> <p>Date: <u>1/20/2022</u></p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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.

09/02/2022



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 57th Street, SE
 Charleston, WV 25304

Subject: DOH Permit for the WDTN19 Pad, Monongalia County
 WDTN19RHSM 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,

A handwritten signature in blue ink that reads "Gary K. Clayton".

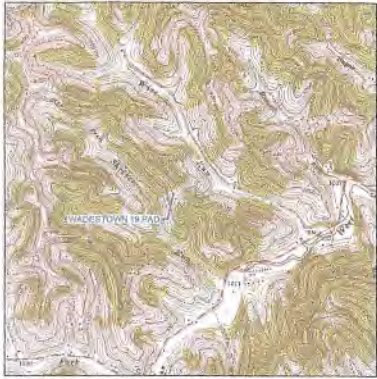
Gary K. Clayton, P.E.
 Regional Maintenance Engineer
 Central Office O&G Coordinator

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%

4706101905



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 11, 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:	DATE:
DRAWN BY:	DATE 12/18/19
CHECKED BY:	DATE 12/18/19
REVIEWED BY:	DATE 12/18/19
SURVEY DATE:	DATE 01/20/19
SURVEY BY:	
FIELD BOOK NO.:	



PROJECT NO.	050-10648
CONTRACT NO.	
PROJECT OR	

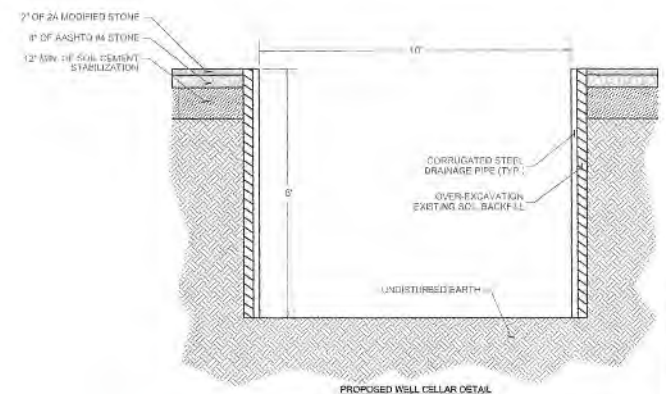
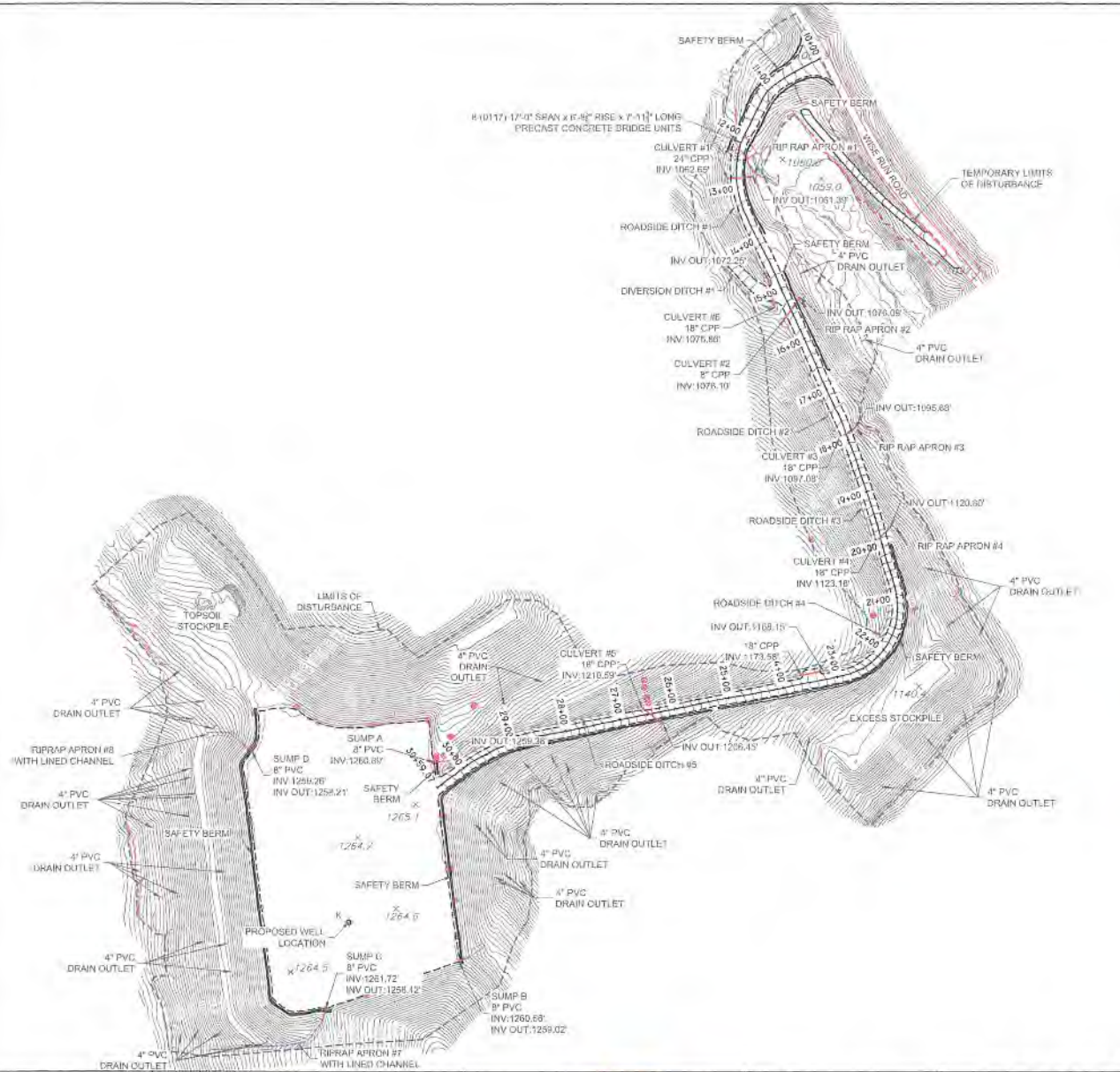
CNX RESOURCES CORPORATION
WADESTOWN 19 SITE
PAD AS-BUILT
MONONGALIA COUNTY, WEST VIRGINIA
COVER SHEET

SHEET NO.

1

CHART OF PROPOSED WELL SPOTS AND SITE LOCATION

POINT	API #	NAD83 WY NORTH		UTM-NAD83-7 (METERS)	
		EASTING	NORTHING	EASTING	NORTHING
WDTN# 1	17-28-0000-00-00	15 24 76 427	60 20 36 847	159596.870	584992.924
ENTRANCE		15 24 52 067	60 17 54 207	158616.950	582471.284



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

LEGEND

- - - - - EDGE OF GRAVEL
- - - - - DITCH
- - - - - DESIGN LOD
- - - - - TREELINE
- - - - - SILT SOCK
- - - - - COMPOSITE FILTER SOCK
- - POST
- - UTILITY POLE
- ▬ - RIP RAP
- ▬ - BERM



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

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NO.	REV.	DATE	DESCRIPTION



SCALE: 1" = 100'	DATE: 04/20/22
DRAWN BY: JAC	DATE: 04/20/22
CHECKED BY: JAC	DATE: 04/20/22
SURVEY DATE: 05/19/21	DATE: 05/19/21
SHEET NO. 1	DATE: 05/19/21
FIELD BOOK NO.	



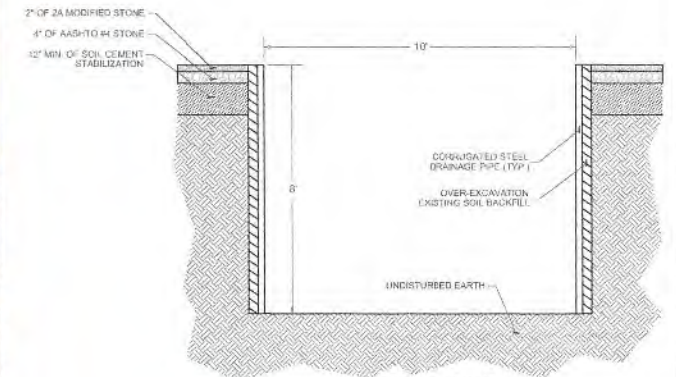
PHASE NO.	
CONTRACT NO.	
PROJECT NO.	050-10648

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

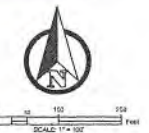
POINT	AP #	NAD83 WY NORTH	LATITUDE	LONGITUDE	UTM-NAD83-07 (METERS)	
					NORTHING	EASTING
WELTNS	17-061-0165-28-03	32° 21' 26.422"	82° 29' 56.987"	4293144.872	576894.294	
ENTRANCE		32° 41' 02.962"	82° 09' 58.102"	4364449.952	107247.236	



PROPOSED WELL CELLAR DETAIL
NOT TO SCALE

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

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



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NO.	BY	DATE	DESCRIPTION



SCALE: 1"=100'	DRAWN BY: GATE: 02/16/17
CHECKED BY: DATE: 12/11/16	DESIGNED BY: DATE: 12/16/16
SURVEY DATE: 10/16/16	DATE: 12/16/16
FIELD BOOK NO.	

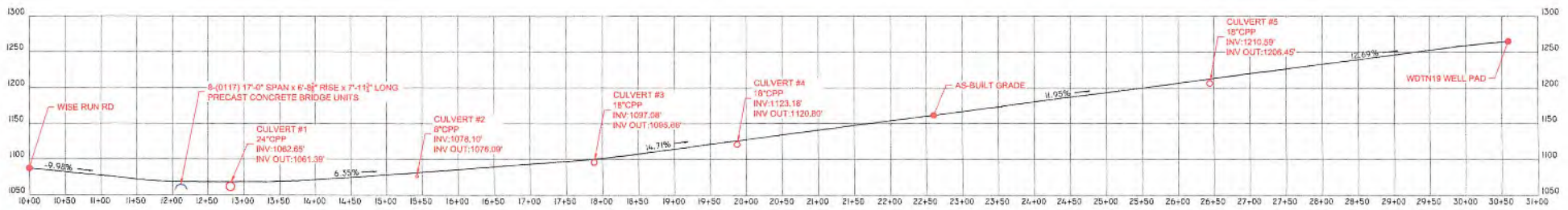


PHONE NO.	
CONTRACT NO.	
PROJECT NO.	050-10648
FAX	(610) 442-7051

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 SHOWN	DATE: 05/18/19
DRAWN BY: JAC	CHECKED BY: JAC
DESIGNED BY: JAC	DATE: 05/18/19
SUPPLY DATE: 05/18/19	DATE: 05/18/19
ISSUED BY: JAC	
FIELD BOOK NO.:	



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

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

SHEET NO.
4



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
dep.wv.gov

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

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

DATE: October 9, 2018
ORDER NO.: 2018-W-8

INTRODUCTION

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

FINDINGS OF THE CHIEF

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

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. CNX is a “person” as defined by W. Va. Code §22-6-1(n), with a corporate address as 1000 Consol Energy Drive, Canonsburg PA 15317
3. On August 9, 2018 CNX submitted a well work permit application identified as API# 47-061-01815. The proposed well is to be located on the WDTN 19 Pad in Battelle District of Monongalia County, West Virginia.
4. On August 9, 2018 CNX requested a waiver for Wetlands WET01-007, WET01-008, WET01-009, WET01-011 as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-061-01815.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to... (3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “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 Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.”

ORDER

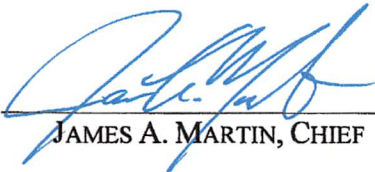
West Virginia Code §22-6A-12(b) requires, in part, that “no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands WET01-007, WET01-008, WET01-009, WET01-011 from well location restriction requirements in W.Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-061-001815. The Office of Oil and Gas hereby **ORDERS** that CNX shall meet the following site construction and operational requirements for the WDTN 19 Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetlands WET01-007, WET01-008, WET01-009, WET01-011 shall be protected by triple stacked filter socks consisting of two twenty-four inch (24” filter socks and an eighteen inch (18”) filter sock along with silt fence. This along with rip-rap aprons, temporary and permanent vegetative cover will prevent sediment from reaching the wetlands
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 9rd day of October, 2018.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: 
JAMES A. MARTIN, CHIEF

