

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 www.dep.wv.gov

Friday, January 4, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

CNX GAS COMPANY LLC POST OFFICE BOX 1248 JANE LEW, WV 263786506

Re: Permit approval for WDTN5GHSM 47-061-01823-00-00

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: WDTN5GHSM

Farm Name: JOHN M. WISE, ET UX., ET AL

U.S. WELL NUMBER: 47-061-01823-00-00

Horizontal 6A New Drill Date Issued: 1/4/2019

API Number: 61-01862/30 HGA

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: 6/-0182/231746A

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.

WW-6B (04/15)

API NO. 47-	01/04/2019
OPERATOR WEL	L NO. ₩DT85GASM3
Well Pad Name	: WDTN5

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

1) Well Opera	tor: CNX G	as Compar	y, LLC	494458046	Monongalia	Battelle	Wadestown
A Comment Property	77 A-1-1-1			Operator ID	County	District	Quadrangle
2) Operator's	Well Number	: WDTN5G	HSM	Well	Pad Name: WDT	N5	
3) Farm Name	/Surface Ow	ner: Wise		Public	Road Access: CR	6 Wise Ru	ın
4) Elevation, c	current groun	d: 1412'	Е	levation, propo	sed post-construct	ion: 1390	
5) Well Type	(a) Gas Other	X	_ Oil _		Inderground Stora	ge	
	(b)If Gas	Shallow		C Deep			
		Horizontal	×	(Lilenski		
6) Existing Pa	d: Yes or No		No		_ Mak	9/27/20	18
					ss and Expected F k, expected format		
8) Proposed To	otal Vertical	Depth: 771	5' TVD a	t TD (depende	nt upon formatio	n dip)	
9) Formation a	nt Total Verti	cal Depth:	Marcellu	s Shale (will no	ot penetrate Onor	ndaga)	
10) Proposed	Total Measur	ed Depth:	17,991' [MD at TD			
11) Proposed I	Horizontal Le	eg Length:	~9468'				
12) Approxim	ate Fresh Wa	ter Strata De	pths:	Shallowest a	t ~125' and deep	est at ~10	70'
13) Method to	Determine F	resh Water I	Depths:	Depth of bit when	water shows in flow	ine or depth	when misting is required
14) Approxima	ate Saltwater	Depths: 21	15', 256	5'			
15) Approxim	ate Coal Sear	n Depths: 7	09'-712';	; 970'-976'; 10	58'-1062'; 1063'-1	1070'	
16) Approxima	ate Depth to	Possible Voi	d (coal m	ine, karst, other	None anticipa	ited	
17) Does Prop directly overly				yes	No)	X
() 1037		C 11				RE	CEIVED
(a) If Yes, pr	ovide Mine I		-			Office o	Oil and Gas
		Depth				1413	0 3 2018
		Seam	-			UCI	0 4 1,010
		Owne	r:				partment of
					E	nvironme	ental Protection

API NO. 47- - 01/04/2019

OPERATOR WELL NO. WDTN5GHSM

Well Pad Name: WDTN5 4706 01823

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	129	100	96 / CTS
Fresh Water	13.375	New	J-55	54.5	1409	1380	959 / CTS
Coal	13.375	New	J-55	54.5	1409	1380	959 / CTS
Intermediate	9.625	New	J-55	36.0	3084	3055	1025 / CTS
Production	5.5	New	P-110	20.0	18020	17991	3422 / TOC @ 2855
Tubing	2.375	New	J-55	4.7	Above assumes RF=29'	TBD	N/A
Liners	N/A						

Max 9/27/2016

ТҮРЕ	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	24	0.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	0.380	2730	<500	Class A	1.19
Coal	13.375	17.5	0.380	2730	<500	Class A	1.19
Intermediate	9.625	12.25	0.352	3520	<2815	Class A	1.19
Production	5.5	8.75 x 8.5	0.361	12360	~10000 during frac	Class H	1.07
Tubing	2.375	N/A	0.190	7700	N/A	N/A	N/A
Liners	N/A						

PACKERS

Kind:	N/A	
Sizes:		RECEIVED Office of Oil and Gas
Depths Set:		UC1 0 3 2018

WV Department of Environmental Protection

WW-6B
(10/14)

API NO. 47-____- 01/04/2019

OPERATOR WELL NO. WDTN5GHSM

Well Pad Name: WDTN5

4706 01823

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 46.9
- 22) Area to be disturbed for well pad only, less access road (acres): 5.4
- 23) Describe centralizer placement for each casing string:

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

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

Fresh water/coal string: Class A cement with 1%-3% 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 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 to the total at max flowrate with max rotation until the shakers clean-up (typically requires from the production casing - once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

WDTN5 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 H cement or Class H:Poz blend with dry blend and/or liquid additives including retarder, suspension agent, gas block, defoamer, fluid loss control, extender, dispersant, anti-settling agent. Actual cement blends may vary slightly depending upon cementing service company utilized.

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DRILLING WELL PLAN

WDTN-5G-HSM (Marcellus HZ)

Marcellus Shale Horizofftal

Protection

Monongalia County, ₩V ∞ /DTN-5G-HSM SHL N 440508.69-E 0764409.8

					WD	TN-5G-I	HSM SHL	N 440	0508.69 E 1764409	.85 (NAD27)	
Ground Elevation	. 1	390' GL E	levation		WI	DTN-5G-	HSM LP	N 439	9352.04 1 E _0763006	.98 (NAD27)	
Azimuth		313.	5°		WD	TN-5G-I	HSM BHL	N 445	5869.18 E 9756139	.32 (NAD27)	
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	> SCOMMENTS	
4				1011				27	JJ.C	≥ :≥	
	24"	20" L/S				AIR	To Surface	N/A	N/A	Slabilize surface fill/soil	
	6.7	20 20	Conductor	100	100	All Y	10 ourlace	NOS	THE	Stabilize Saliace Illinson	
			Shallowest Fresh Water		125						
			Waynesburg 1 Coal		709		15.6 ppg Class A + 1% to 3% CaCl2	Centralize every 3rd joint from shoe to surface		Set through fresh water zones Set through coal zones	
	17-1/2"	13-3/8" 54.5#	Sewickley Coal		970	970 AIR /	+ 1/4 pps Flake 20% OH Excess Yield = 1.19		Ensure the hole is clean at	Cemented to surface 13-3/8" shoe NOT to be set deeper than ground level	
	17-1/2	J-55 BTC	Roof Coal		1058	FW Mist			section TD		
			Pittsburgh Coal		1063		TOC @ surface	Bow spring centralizers			
			FW/Coal Casing	1380	1380				1	12000	
			Salt Sand	g Lime 2475	15.6 ppg Class A	SCHOOL STATE		Set through potential salt water			
			Big Lime		+ 0% to 2% CaCl2	Centralize every 3rd joint from shoe to	Soap the hole as needed	zones			
	12-1/4"	9-5/8" 36.0# J-55 LTC	Big Injun		2565	2565 AIR / Soap	+ 1/4 pps Flake 20% OH Excess	surface	and ensure the hole is	Cemented to surface	
		3-55 E C	Price	2805	Yield = 1.19	Bow spring centralizers	clean at section TD	Casing to be set ~200'-250' belo			
			Intermediate Casing	3055	3055		TOC @ surface	bow spring centralizers		the Big Injun base	
			50 Foot		3255						
	A Land		Gordon	rait	3390		15.2 ppg Class H				
	8-3/4" Tangent		Fifth		3515	AIR	50:50 Class H:Poz		Once at TD, circulate at		
	rangent		Bayard		3565		with additives (retarder, suspension agent, gas	Centralize every joint	max flowrate with max rotation until shakers clean-	Note: For all strings, actual centralizer placements may be	
			Elks		5165		block, defoamer, fluid	from shoe to KOP - then every 3rd joint	up (typically requires	changed due to hole conditions	
		5-1/2" 20.0# P-110 VAR	Cashaqua		7360		loss, extender, etc.)	from KOP to TOC	multiple bottoms-up)	Note: For all strings, actual	
		F-110 VAIX	Burkett		7505		10% OH Excess	Single-piece/rigid bow	Once on bottom with	cement blends may vary slightly	
	8-1/2" Curve		Tully		7530	12.0-12.5	Yield = 1.07	centralizers	casing, circulate a minimum of one hole volume prior to	depending upon service compan utilized	
	& Lateral		Hamilton		7565	ppg SOBM	TOC @ >= 200' above		pumping cement	duitzed	
			Marcellus		7670	1	9-5/8" shoe		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
			Production Casing	17991	7715						

Republic Services (Allied V Industrial Landfills	aste)		Gas Spec	ific Waste	Streams				Other Accepte	Waste Stream	ns				
Landfill	Location		Drill * Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information
McLean County	Bloomington	IL	X	X		X	X	X	X	X	X	X	No.	X	
RC/Coles County	Charleston	IL	X	X		X	X	X	X	X	X	X		X	
Brickyard Disposal	Danville	IL	X	X		X	X	X	X	X	X	X		X	
outhern Illinois Regional	De Soto	IL.												X	
ee County	Dixon	IL	X	X		X	X	X	X	X	X	X	4	X	
pper Rock Island	East Moline	IL	X	X		X	X	X	X	X	X	X		X	
Bond County	Greensville	IL	X	X		X	X	X	X	X	X	X		X	
llinois	Hoopeston	IL	X	X		X	X	X	X	X	X	X		X	
andComp	LaSalle	IL	X	X		X	X	X	X	X	X	X			317-921-1667 or 480-627-2700
itchfield-Hillsboro	Litchfield	IL	X	X		X	X	X	X	X	X	X			1-800-634-0215
invirontech	Morris	IL,	X	X		X	X	X	X	X	X	X		X	
ivingston	Pontiac	IL	X	X		X	X	X	X		X	X		X	
oxana	Roxana	IL	X	X		X	X	X	X	X	X	X	X	X	
angamon Valley	Springfield	IL	X	X		X	X	X	X	X	X	X		X	
enson Valley	Frankfort	KY	X	X		X	X	X	X	X	X	X		X	
lue Ridge	Irvine	KY	X	X		X	X	X	X	X	X	X		X	
forehead	Morehead	KY	X	X		X	X	X	X	X	X	X		X	
reen Valley	Rush	KY	X	X		X	X	X	X	X	X	X	X	X	
herokee Run	Bellefontaine	OH				X	X	X	X		X	X	1	X	
Villiams County	Bryan	OH				X	X	X	X	X	X	X		X	
ounty Environmental	Carey	OH				X	X	X			X	X		X	
Celina	Celina	OH				X	X	X	X		X	X		X	
arbon-Limestone**	Lowellville	OH	X	X		X	X	X	X			X	X		Jack Palermo:
ountywide Landfill**	East Sparta	OH	X	X		X	X	X						X	work: 330-536-8013
orain County	Oberlin	OH				X	X	X	X			X		X	cell: 330-806-9660
akland Marsh	Shiloh	OH					X	X	X	X	X			X	2211. 220 000 7000
mperial	Imperial	PA				X	X	X	X	Х	X			X	Barbara Harsanye:
Conestoga	Morgantown	PA			ÿ*	X	X		X	X	X	X		Λ	
Brunswick	Lawrenceville	VA				X	X	X	X	X	X	Х		X	work: 330-536-8013 x 120
ing and Queen	Little Plymouth	VA	1			X	X	X	X	X	X	X		X	cell: 330-423-7267
old Dominion	Richmond	VA	C			X	X	X	X	X	X	X		X	
Sycamore	Hurricane	WV		200		X	X	X	X	Jenes to		X		X	
Short Creek	Wheeling (Short Creek)	WV	X	X		X	X	X	X			X		X	
Carter Valley	Church Hill	TN	1											X	

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Waste Management Industrial Landfills			Gas Spe	cific Waste	Streams				Other Accepted	d Waste Stream	ns				Contact Information
Landfill	Location		Drill * Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information
Arden Landfill	Washington	PA	X	X		X	X	X	X	755		X	X	X	
South Hills (Arnoni)	South Park	PA	X	X			X	X	X			X	X	X	
Kelly Run	Elizabeth	PA	X	X		X	X	X	X			X	X	X	
Valley Landfill	Irwin	PA	X	X		X	X	X	X	X	X	X	X	X	
Evergreen Landfill	Blairsville	PA	X	X		X	X	X						X	Scott Allen: 412-604-2256
Charleston Landfill (Kanawha County)	Charleston	WV	X	X		х	x	x	X			х		х	Deou Finei: 412-604-2230
Meadowfill Landfill	Bridgeport	WV	X	X		X	X	X	X	X	X	X	X	X	t .
Northwestern Landfill	Parkersburg	WV	X	X		X	X	X	X			X	X	X	
S&S Grading Landfill	Clarksburg	WV	X	X		X	X	X	X	Common of		X		X	
American Landfill	Waynesburg	OH	X	X		X	X	X	X	X	X	X	X	X	
Suburban RDF	Glenford	OH	X	X		X	X	X	X	X	X	X	X		Patty Landolt: 262-532-8001
Coshocton Landfill***	Coshocton	OH	X	X		X	X	X						X	John Miller: 1-800-963-4776
Mahoning Landfill	New Springfield	OH	X	X		X	X	X			X	X	100000	X	
Additional Landfills			Gas Spe	cific Waste	Streams			(Other Accepted	d Waste Stream	ns				Contact Information
Landfill	Location		Drill* Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information
Westmoreland Waste (WWLC Group)	111 Conner Lane, Belle Vernon, PA 15012	PA	х	х		х	x	x	х	х	х		х	х	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694
MAX Environmental (Bulger Facility)	200 Max Drive, Bulger, PA 15019	PA	х	Х		x	Х	х	X				х	Х	Carl Spadaro; 412-343-4900
MAX Environmental Yukon Facility)	233 MAX Lane Yukon, PA 15698	PA	х	Х		х	X	х	X				х	X	cell: 412-445-9789
Apex Sanitary landfill	11 County Road 78		12.					1	4.0			-			Joe Teterick: 740-275-2887

Bulger Facility)	Bulger, PA 15019	L.A.		Α.	A	Λ	^	Α.				- ^	^	Carl Spadaro: 412-343-4900
	233 MAX Lane Yukon, PA 15698	PA	х	х	x	Х	х	х				х	х	cell: 412-445-9789
pex Sanitary landfill	11 County Road 78 Amsterdam, Ohio 43903	ОН	Х	х	X	х	х	х				х	X	Joe Teterick: 740-275-2887 joet@els-company.com
	30 Larison Rd, Jeffersonville, KY 40337	KY	Х	X	x	X	x		x	X			x	Carl Walter: 513-623-2471
	3612 E State Highway 552 Lily, KY 40740	KY	х	х	х	X	х		Х	Х	X		х	Bruce Crouch: Work: 606-864-7996 Cell: 606-219-0261
	Chestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458	PA	x	x	x	x	х	х					x	Tony Labenne
	Greentree Landfill; 635 Toby Rd.; Kersey, PA	PA	х	х	x	Х	x	X					X	6184 Route 219, Brockway, PA 15824 814-590-9906
	Mostoller Landfill; 7035 Glades Pike Rd.; Somerset, PA	PA	x	x	х	х	х	х					x	

Notes:

Ohio "TENORM" - requires Radium 226/228 analysis by load before leaving the well pad. Solid waste landfills in Ohio can on Accepts drifting wastes but profile for discussal is not currently completed.

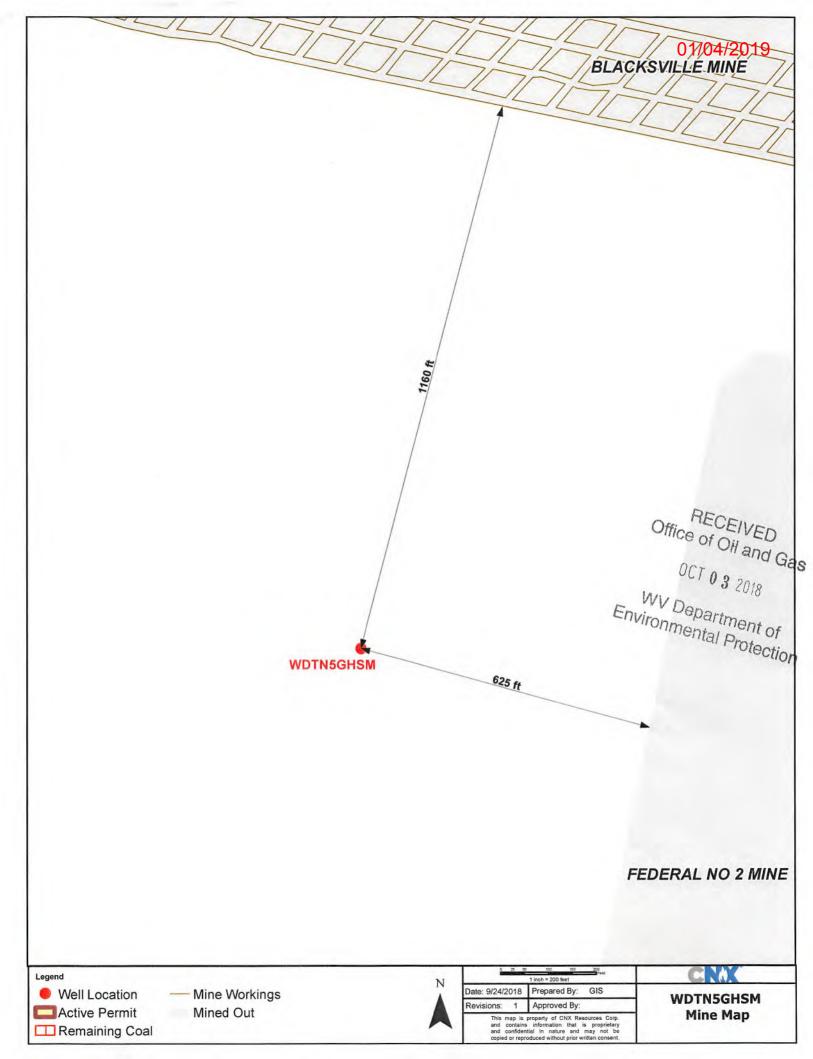
Waste stream accepted by facility.

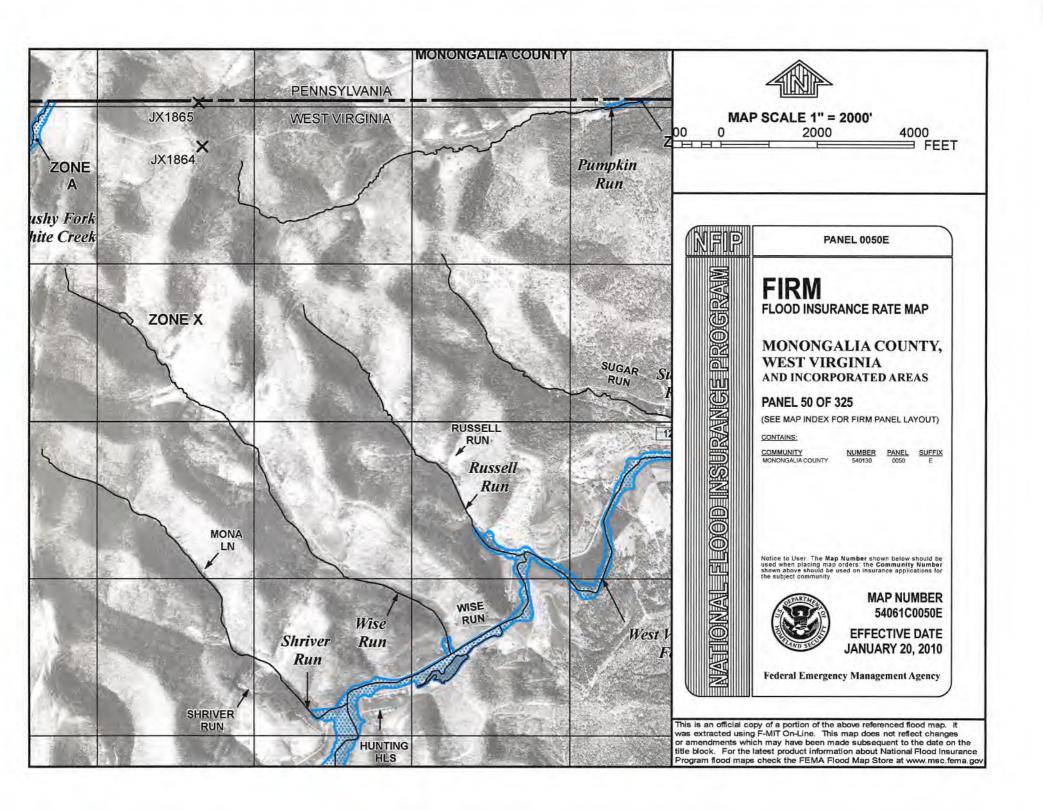
Waste stream accepted by facility. Contact facility directly to verify waste streams accepted.

New PADITY researching "TENORM" testing requirement are pending.

* Drill Cuttings include frac same for the parpost of this table (Contact facility directly to verify waste streams accepted).

OHIO CITY OF THE CONTROL OF THE C







WDTN5 Pad Frac - SOG Review

In accordance with WVDEP 35CSR8 Section 5.11, all known shallow oil and gas (SOG) wells have been identified within a 500' radius of the WDTN5 pad. Any SOG well that falls within the Area of Review (AOR) has been reviewed and is provided in a list that includes API, Operator, Well Name, Well Number, Current Status, Total Depth, and Permit Date.

The Marcellus Shale of the Wadestown area is found at an approximate True Vertical Depth (TVD) of 7900'. In the Wadestown area, there were very few wells that produced from formations deeper than the Bayard Sand (approximately 3500'). Based on our experience with frac communication and shallow wells, CNX Geology feels that it is highly unlikely for communication to occur with any wells producing in the area above the WDTN5 Pad.

The current hypothesis for SOG Communication is that Marcellus frac fluids and pressure intersect and migrate up a nearby fault that acts as a conduit for upward migration and intersection with high permeability reservoirs of the Alexander and Benson. These reservoirs are not developed in the Wadestown. Geomechanical data is collected from dipole sonic logs. CNX's nearest sonic data is from the NV20CCV well (Figure 2), approximately 19.8 miles north of the Wadestown area. Frac modeling (Figure 3) of the Marcellus in the area does not show significant upward frac growth.

Figure 1. Only 19 wells lie within a 500' buffer around the WDTN5 Pad that penetrate the Big Injun Sand or deeper horizons. The deepest well is 3700' and produces from the 5th Sand. No known SOG Communication events have occurred in this area.

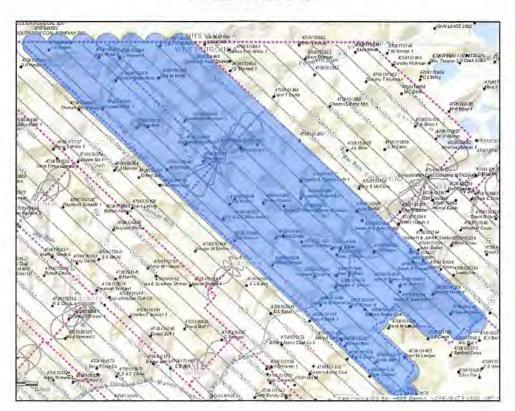




Figure 2. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the Wadestown Area Stress Profile log.

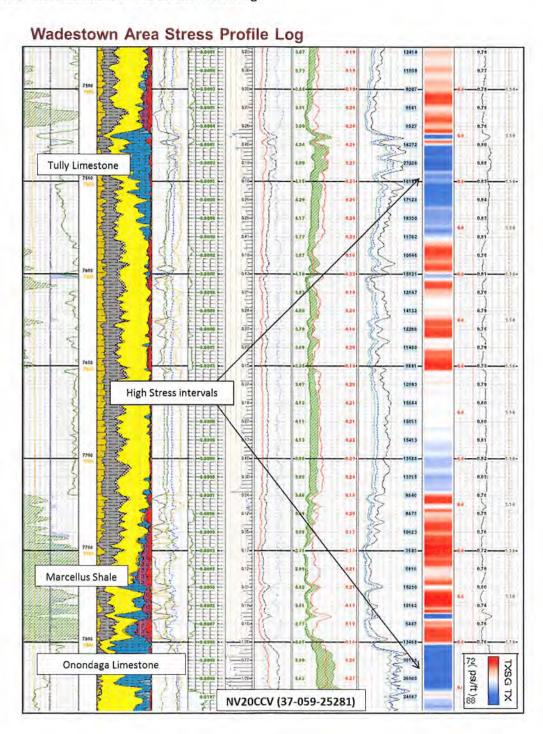
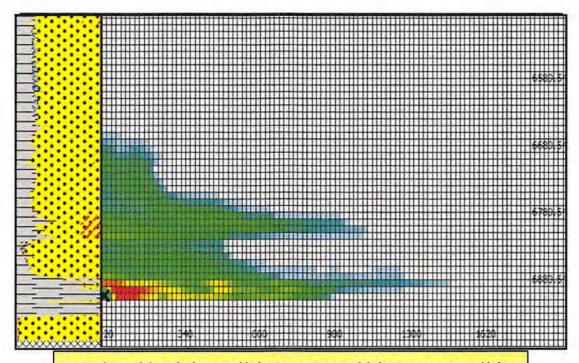






Figure 3. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Hamilton and Tully are much thinner than Wadestown. Frac modeling only yields frac height of approximately 300'.



Frac Simulation of the Oxford area, Doddridge County, WV. Model of 300 stage spacing yields frac height of 260 feet. Tully Limestone (~25'), Tully-Hamilton (~55'), Marcellus-Alexander (1500')



WDTN5 Pad Frac SOG Review / CRSD Review Monday, September 24, 2018

API	STATE	COUNTY	LATITUDE	LONGITUE OPERATOI STATUS	WELL_NATWELL	NO TD	FMTD	ELEVATIO FIELD_NAI FMPROD	COMMENTS
4706101275	WV	Monongal	39.69746	-80.327 CNG Prod Gas	Howard A	1	3700 Fifth	1261 Maple-Wa	Ground Level
4706101289	WV	Monongal	39.70152	-80.3301 CNG Prod Gas	Dewey Ru		3655 Bayard	1454 Maple-Wa	Ground Level
4706101485	WV	Monongal	39.68238	-80.3074 Dominion Gas	Brent W L		3620 Bayard	1322 Maple-Wa	Ground Level
4706101329	WV	Monongal	39,7005	-80.3151 CNG Prod Gas	John Stati		3588 Fifth	1298 Maple-Wa	Ground Level
4706130182	WV	Monongal	39.70659	-80.3397 Pittsburgh Gas	Zoa Wise	2	3558 Bayard	1250 Maple-Wa	Ground Level
4706130265	wv	Monongal	39.69122	-80.3082 Hope Nati Gas	Leo Shrive	1	3492 Fifth	1283 Maple-Wa	Ground Level
4706100381	wv	Monongal	39.69688	-80.3346 Hope Nati Gas	Sol Shrive		3452 Bayard	1190 Maple-Wa	Topo Estimation
4706101290	wv	Monongal	39.69514	-80.3183 CNG Prod Gas	Anna S WI		3450 Bayard	1087 Maple-Wa	Ground Level
4706130345	wv	Monongal	39.72071	-80.3467 Manufacti Gas	EJ&JLHe	1	3448 Bayard	1260 Maple-Wa	Ground Level
4706101479	wv	Monongal	39,69108	-80,3185 Dominion Gas	Howard A		3429 Bayard	997 Maple-Wa	Ground Level
4706101478	WV	Monongal	39.6918	-80.3097 Dominion Gas	John R Sta		3334 Bayard	998 Maple-Wa	Ground Level
4706130331	WV	Monongal	39.7165	-80.3538 Manufacti Gas	Thomas W	3	3331 Bayard	1164 Maple-Wa	Ground Level
4706130327	wv	Monongal	39.68388	-80.317 Hope Nati Gas w/ O	Michael B		3324 Fourth	1308 Maple-Wa	Ground Level
4706100056	WV	Monongal	39.7194	-80.3564 Manufacti Gas	Alex Whit	2	3305 Thirty-foo	1280 Maple-Wa	Ground Level
4706130524	wv	Monongal	39.69543	-80.3123 Hope Nati Oil and G	J H Hagan		3300 Bayard	1043 Maple-Wa	Ground Level
4706100147	WV	Monongal	39.68866	-80,3161 Hope Nati Gas	S H Shrive	4	3300 Fifth	1148 Maple-Wa	Ground Level
4706100098	wv	Monongal	39.71926	-80.3532 Carnegie I Gas	J L Henner	1	3083 Fifth	1053 Maple-Wa	Ground Level
4706100380	WV	Monongal	39.69586	-80.3178 Hope Nati Gas	Solomon !	2	3075 Fifty-foot	1020 Maple-Wa	Barometer
4706130578	WV	Monongal	39.7107	-80,3504 Equitable Gas	Ernest Bel		2440 Big Injun	1414 Maple-Wa	Ground Level
4706101206	WV	Monongal	39.69673	-80.324 CNG Prod Methane	Mabel G V		1093 Pittsburgh	1366 Blacksville	Ground Level
4706101245	WV	Monongal	39.6905	-80,3082 CNG Prod Methane	Helen & Jo		1028 Pittsburgh	1309 Blacksville	Ground Level
4706101256	WV	Monongal	39.69021	-80,3029 CNG Prod Methane	Jesse D Ho		1015 Pittsburgh	1317 Blacksville	Ground Level
4706101184	WV	Monongal	39.69934	-80,3142 CNG Prodi Methane	Helen H &		1009 Pittsburgh	1303 Blacksville	Ground Level
4706101200	WV	Monongal	39,69717	-80.3281 CNG Prod Methane	Howard SI		970 Pittsburgh	1242 Blacksville	Ground Level
4706101181	WV	Monongal	39.70108	-80,3268 CNG Prod Methane	Mabel G V		940 Conemau	1223 Blacksville	Ground Level
4706101209	wv	Monongai	39.69441	-80.3044 CNG Prod Methane	John & He		916 Pittsburg	1208 Blacksville	Ground Level
4706101240	WV	Monongal	39.69253	-80.3183 CNG Prod Methane	Anna S WI		860 Pittsburgh	1160 Blacksvill€	Ground Level
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4706101215	wv	Monongal	39.69557	-80.3123 CNG Prod Methane	John & He		750 Pittsburgh	1051 Blacksville	Ground Level
4706101238	wv	Monongal	39.69238	-80.3219 CNG Prodi Methane	Howard SI		715 Pittsburgh	1019 Blacksville	Ground Level



WDTN5 PAD GEOLOGICAL PROGNOSIS

WELL NAME:

WDTN5 MARCELLUS PROGNOSIS

STATE:

WEST VIRGINIA

COUNTY:

MONONGALIA

DISTRICT:

BATTELLE

WADESTOWN

GEOLOGIST: CAE

7.5' QUADRANGLE:

DATE SUBMITTED: 10/4/2017

PROSPECTAREA:

WADESTOWN

TARGET FM: MARCELLUS

ELEVATION:

1390"

PROJECTED TD: 7830'

ESTIMATED I	DEPTHS:		TOP	BOTTOM	GAS CHECKS
MANNEODUE	04001		700	740	
WAYNESBUR			709	712	
SEWICKLEY	COAL		970	976	
ROOF COAL			1058	1062	
PITTSBURGH	COAL		1063	1070	
SALT SAND			2115	2205	2250
BIG LIME			2475	2565	
BIG INJUN SA	ND		2565	2805	2850
PRICE FM			2805	3255	
50 FT SAND			3255	3335	3350
GORDON SAI	ND		3390	3480	3500
5TH SAND			3515	3555	3560
BAYARD SAN	ID		3565	3575	3600
ELKS			5165	5700	4500
CASHAQUA			7360	7505	5500
BURKET SHA	LE		7505	7530	6500
TULLY LIMES	TONE		7530	7565	7000
HAMILTON SI	HALE		7565	7670	7600
MARCELLUS	SHALE		7670	7740	
TD				7830	TD AND AFTER 4.5" CSG
FRESH W	ATER:	25'			SALT WATER: 2180, 2625

WDTN5 PAD WITH 500' AREA OF REVIEW





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

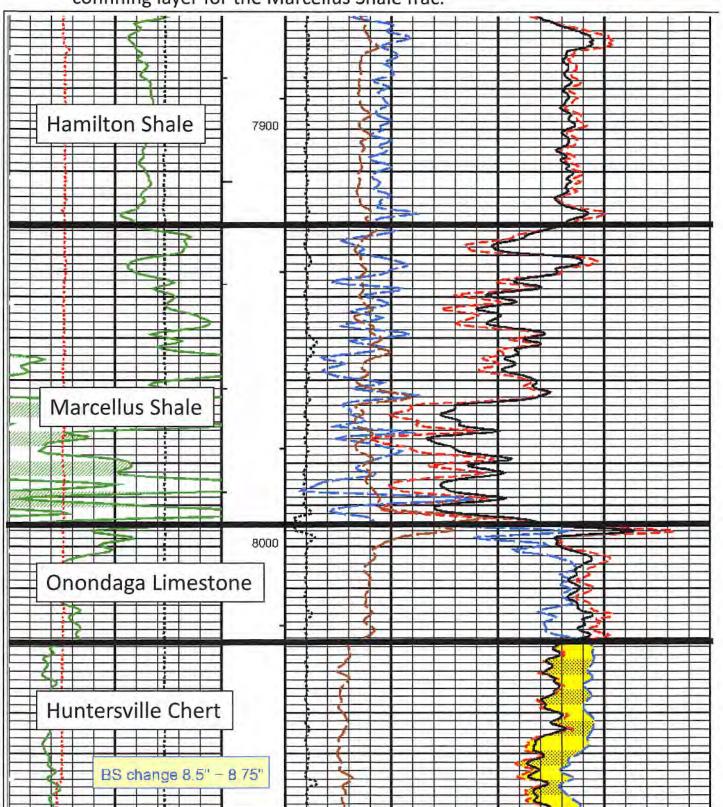
API	STATE	COUNTY	LATITUDE	LONGITUE OPERATOI STATUS	WELL_NAT WE	LL_NO TD	FMTD	ELEVATIO FIELD_NAIFMPROD	COMMENTS
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4706101238	wv	Monongal	39,69238	-80,3219 CNG Prod Methan	e (Howard SI		715 Pittsburgh	1019 Blacksville	Ground Level

All SOG wells above the WDTN5 Marcellus pad have been plugged and were less than 3700' TD.

WADESTOWN Area Type Log Esther Clark 3H (47-061-01623)

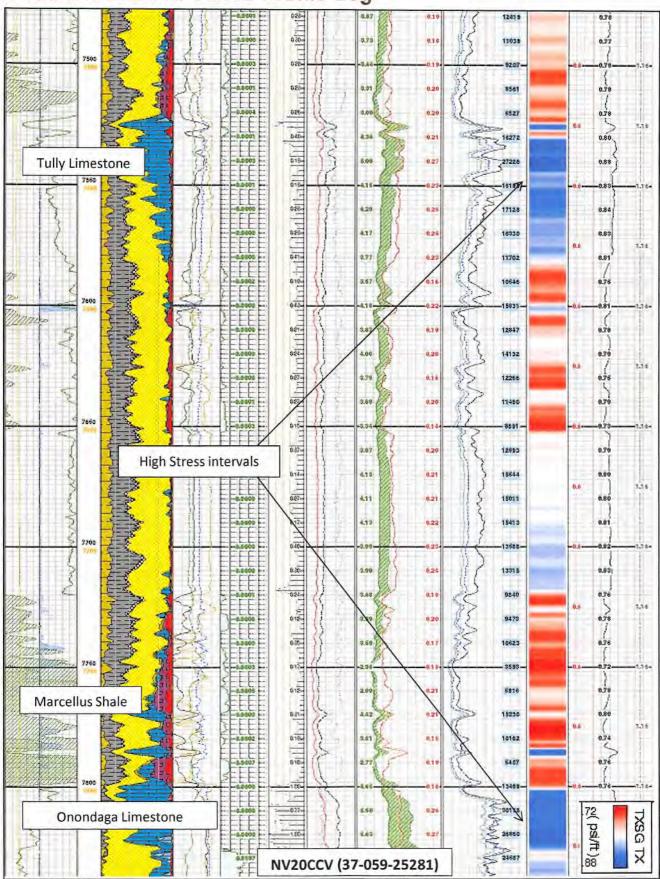


 The Tully Limestone in conjunction with the Hamilton Shale is the confining layer for the Marcellus Shale frac.





Wadestown Area Stress Profile Log



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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company LLC	OP Code 494458046
Watershed (HUC 10) Dunkard Creek	Quadrangle Wadestown, WV
Do you anticipate using more than 5,000 bbls of water to come Will a pit be used? Yes No V	mplete the proposed well work? Yes No
If so, please describe anticipated pit waste: No P	its
Will a synthetic liner be used in the pit? Yes	No V If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	And a series of the series of
Underground Injection (UIC Per Reuse (at API Number WDTN2 WG	mit Number 47-001-00561, 47-097-01514, 47-097-01613, 34-013-2-0609
Off Site Disposal (Supply form V Other (Explain_No pits	
Will closed loop system be used? If so, describe: Yes (Se	e attatched pgs 1-7)
Drilling medium anticipated for this well (vertical and horize	ontal)? Air, freshwater, oil based, etc. Verlical pr from spuelsurface to curve kickeft point (KOP); Horizontal: synthetic oil-based mud (SOBM) from curve KOP to lateral TD
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? Bactericide, Polyme	ers, and weighting agents
Drill cuttings disposal method? Leave in pit, landfill, remove	red offsite, etc. Land Application of only soil conductor cuttings, all other cuttings will be taken to an approved Landfill
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? See attac	hed list.
Permittee shall provide written notice to the Office of Oil an West Virginia solid waste facility. The notice shall be provid where it was properly disposed.	d Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violation law or regulation can lead to enforcement action. I certify under penalty of law that I have personal application form and all attachments thereto and that, be obtaining the information, I believe that the information penalties for submitting false information, including the possible of the provided submitting false information, including the possible of the provided submitting false information, including the possible of the provisions of the West p	UCT V 3 2018
Company Official Signature	WV Danastin
Company Official (Typed Name) Raymond Hoon	Environmental Protection
Company Official Title Supervisor - Gas Permitting	TO LO
Commenually of fungillania Subscribed and sworn before me this for day of	
Jay & Walter	COMMONWEALTH OF PENNSYLVANIA Notary Public NOTARIAL SEAL
My commission expires February 23, 2019	Lori L. Walker, Notary Public Richhill Twp., Greene County My Commission Expires Feb. 23, 2019

according to nH	nent: Acres Disturbed 4	6.9 Prevegetation p	6.5 6.5
Lime decording to pir	test Tons/acre or to corre	ct to pH 7.0	
Fertilizer type 10-20	0-20		
Fertilizer amount 50	0	lbs/acre	
Mulch_ hay or stra	w @ 2	Tons/acre	
		Seed Mixtures	
Ten	nporary	Perm	anent
Seed Type Orchard Grass	lbs/acre 25	Seed Type Orchard Grass	lbs/acre 25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10
Photocopied section of involve	ed 7.5' topographic sheet.		
Photocopied section of involve	ed 7.5' topographic sheet.		
Plan Approved by:	ed 7.5' topographic sheet.		
Plan Approved by:	ed 7.5' topographic sheet.		RECEIVED
Plan Approved by:	the January topographic sheet.		RECEIVED Office of Oil and G
Plan Approved by:	tud Knh		RECEIVED Office of Oil and G
1.4	ed 7.5' topographic sheet.		Office of Oil and G
Plan Approved by:	ed 7.5' topographic sheet.		Office of Oil and OCT 0 3 2018 WV Department



Standard Operating Procedure

TASK: BOS-106 STRIP MUD

RECEIVED Office of Oil and Gas

JAN 04 2019

WV Department of Environmental Protection

Document Control

Operations, Leduc Owner:

Author: Clayton Cameron, Field Supervisor

Reviewer: Technical Advisor

Andrew Pow Approver

Revision & Approval Record

Revision	Date	Description/changes:	Prepared by:	Compet	tency Rev	view
Original 02 03	Jan. 29, 2007 Aug. 24, 2011 Mar. 12, 2012	Original Release of Standard <changes made="" original="" the="" to=""> <changes made="" original="" the="" to=""></changes></changes>	John Richardson Clayton Cameron Clayton Cameron	Employee	Superv	isor
<above +1=""></above>				Date		
1.1				Competent	Yes	No

Yes No etent If No Insert Follow Up Date

Follow Up Date:

Revised < 12/03/12>



TASK: STRIP MUD

	Steps of task in order:	Hazards with each step:
ì	Meet with Site Supervisor to discuss scope of work to be performed	
11	Perform walk around check to complete Pre-job Risk Assessment, speaking with Derrick, Mud and Company Men to establish understanding of fluid to be processed and were to ship processed fluid along with properties to be reached. A pilot mud test should be completed to better understand best way to treat fluid to be processed.	Uneven ground, Weather, Pinch points, Physical stress, Slips trips and falls, Check and verify Mud Report Check MSDS of all fluids and chemicals being used.
1	First set up the BOS tank so centrifuge overflows is going in to cell #1	Physical stress, Potential Energy- Pressurized Gases/Liquids, Slips trips and falls, Potential fumes
2	Close all other bridge gates, Open up the bridge gate in cell#1. Fill cell #1 to 75% capacity with fresh water. While filling mix in one bag of calcium nitrate.	Physical stress, Slips trips and falls, Pinch points, Potential fumes
3	Start to fill you poly tank with water, As you fill the poly tanks you can add your chemicals. Once they are full you can hook up your poly injection lines in the pump room to the suction side of appropriate centrifuge feed pumps. Place mud gun pump discharge line/s into feed pump discharge lines by plumbing in stripping y/s and valves.	Potential Energy-Pressurized Gases/Liquids, Slips trips and falls, Potential fumes WV Department of Environmental Protection
4	Set up centrifuges, adjust accordingly for maintaining clear water loop and plumb mud gun pump suction with appropriate vessel containing mud to be processed.	Physical stress, Potential Energy- Pressurized Gases/Liquids, Slips trips and falls, Potential fumes



TASK: STRIP MUD

	Steps of task in order:	Hazards with each step:
5	Once all rigged in start centrifuge/s to process the clear water loop ensuring all valving is set accordingly. Start and set poly pumps, begin injecting mud and slowly increase feed rate and adjust settings to optimize maximum process rates. once the clean water gets to cell # 9 transfer you will then be able to transfer. Transfer is best done with a submersible pump to be located in cell #9, this pump is also able to be used for filling polymer injection tanks. Before transferring processed fluid it must be checked for ph and calcium to ensure within pre-set limits, also check to see that polymer is not being over injected and being carried in overflow.	Physical stress, Potential Energy- Pressurized Gases/Liquids, Slips trips and falls, Pinch points, Lifting and handling, Potential fumes

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JAN 04 2019

WV Department of Environmental Protection



TASK: STRIP MUD





WV Department of Environmental Protection



TASK: STRIP MUD

RISK Ranking

	Likelih	ood – Pi	robabili	ty – Freq	uency
SEVERITY ¬	Impractical - Improbable - Rarely (1)	Unlikely - Not Probable - Infrequent (2)	Likely - Probable - Frequent (3)	More Likely - More Probable More Frequent (4)	Very Likely- Very Probable Very Frequent (5)
Catastrophic (4)	4	8	12	16	20
Major (3)	3	6	0	12	15
Serious (2)	2	4	6	8	10
Minor (1)	1	2	3	4	5

Level III Unacceptable RISK No Work until additional Safety Controls are implemented and with Manager approval

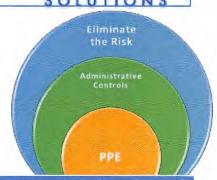
Level II Undesirable RISK Proceed with additional Safety Controls and Supervisor approval

Level I Acceptable RISK Proceed with Caution

JAN 0 4 2019

BOS

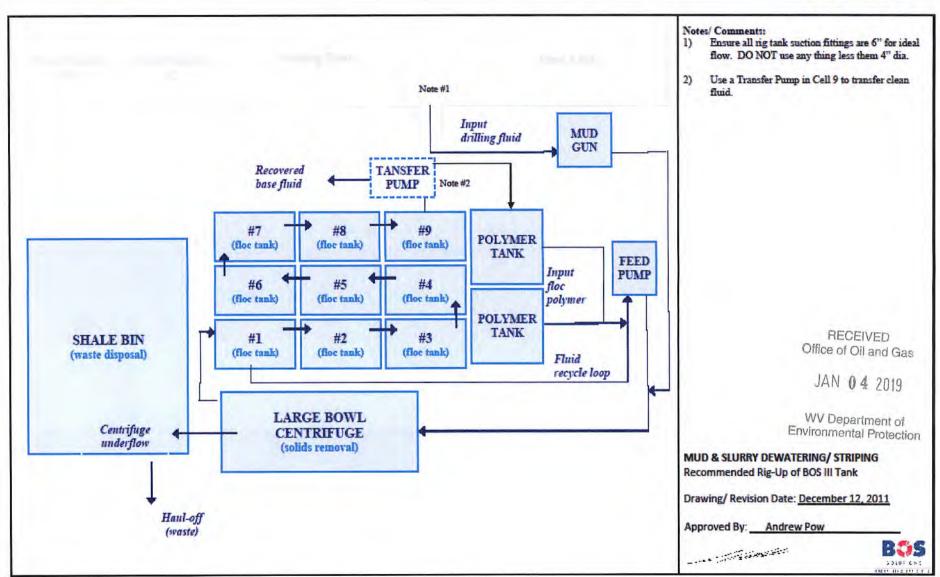
- TASK: STRIP MUD
- Controls <List Controls to make task safe>



Elimination Control:	Administrative Control:	PPE:	
Guards	Standard Operating Procedures #106	Fire Retardant Coveralls	
Valves	Pre Job Risk Assessments	Steel Toed Safety Boots	
Gates	HSE Policy	Safety Glasses	
	PPE Standards	Hearing Protection	
	Training/ New hire, equipment, PPE, ERP	Hard Hat	
		Gloves/ per task	
		Rubber Boots/ per task	RECEIVED Office of Oil and Gas
		Rain Suit / per task	JAN 0.4 2019
		Respirator/ per task	WV Department of Environmental Protection

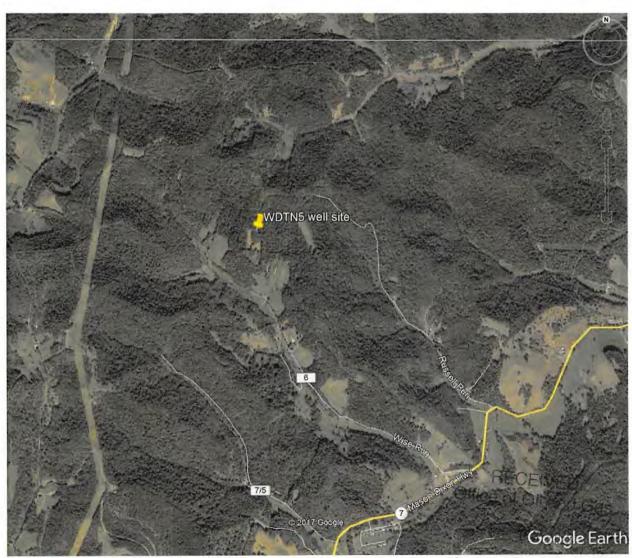
FLOW CHART MUD AND SLURRY DEWATERING RECOMMENDED RIG UP







Site Safety Plan for Well WDTN5GHSM **CNX Gas Company, LLC.**



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.

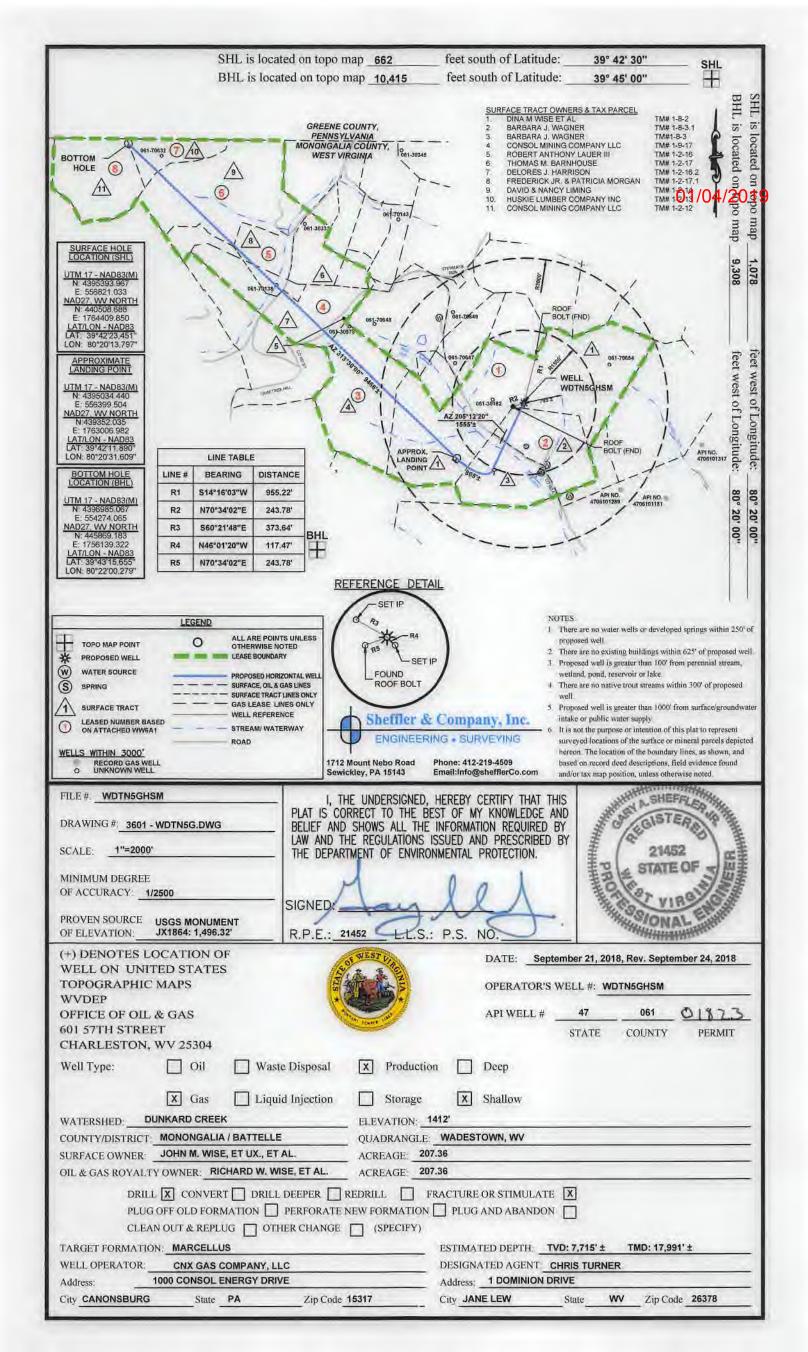
A site specific Safety Plan must be submitted with each deep well application or no later than one week prior to spudding. Approved Plans shall be maintained and available at the drilling rig at all times.

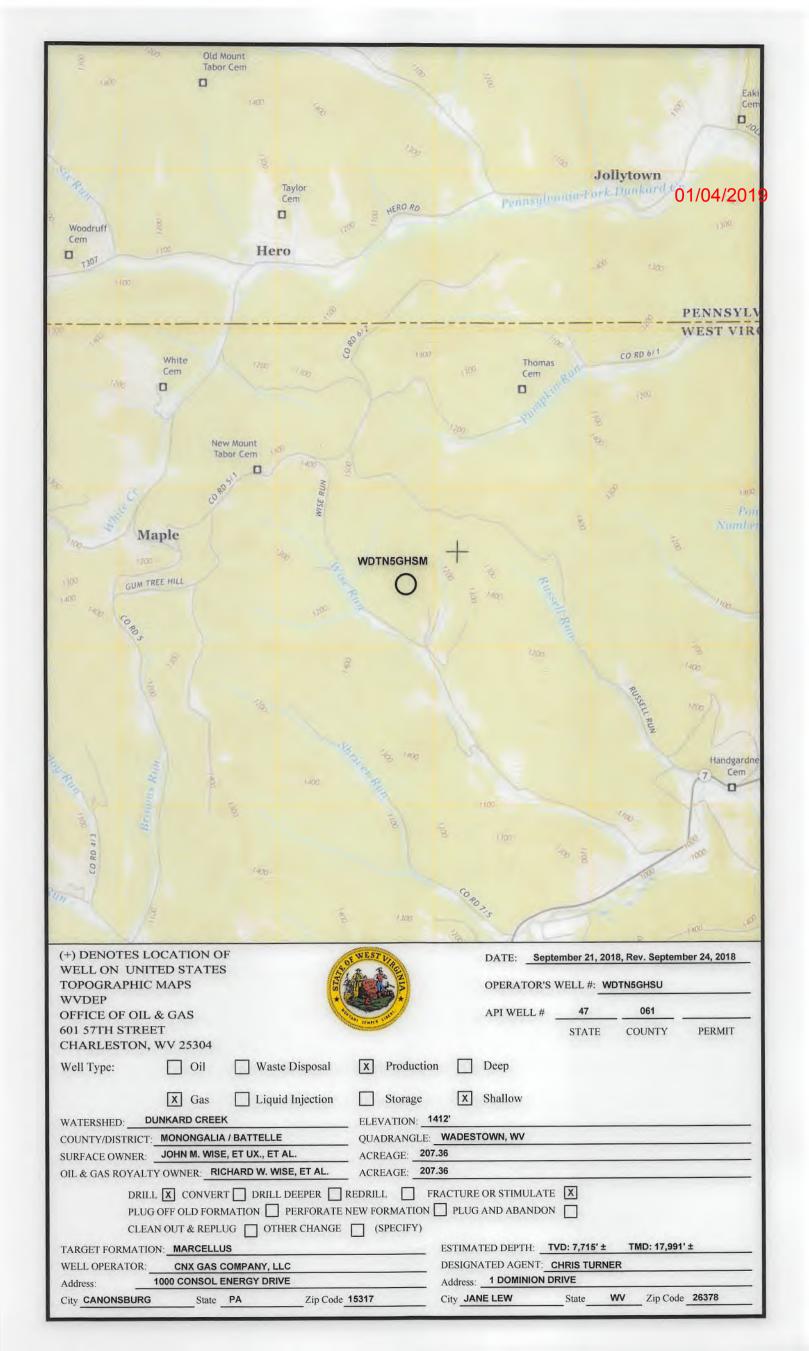
The Office of Oil and Gas must approve all changes and modifications to previously approved plans.

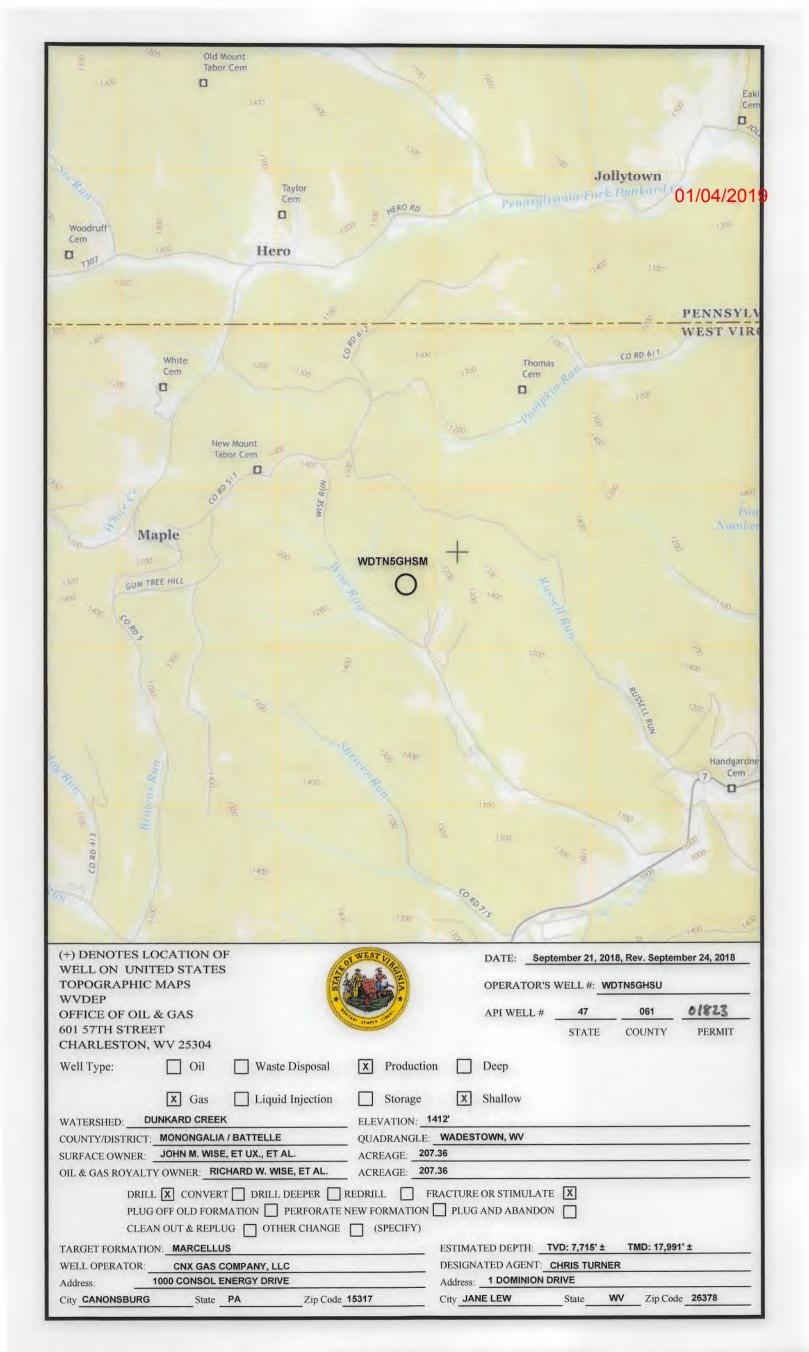
This plan has met the requirements of the Policy Statement Deep Well Drilling Procedures and Site Safety Plan Requirements as set forth by:

West Virginia Division of Environmental Protection, Office of Oil and Gas And West Virginia Oil and Gas Conservation Commission.

Approved this dayof mor	nth september , 20/8 b
Layne J. Kn. Tun	Date: 9/27/2018
	Date:







Tract ID	Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
1	1-8-2	189010000	Richard L. McCauley	CNX Gas Company LLC
			Judy A, Eckman	CNX Gas Company LLC
			Thomas E. McCauley	CNX Gas Company LLC
			Regina Wise Myers, aka Violet Regina Myers	CNX Gas Company LLC
		III D	Evalee A. Everly Shaheen	CNX Gas Company LLC
			Zelda Ruth Brummage	CNX Gas Company LLC
		119	Dexter Murle Stewart	CNX Gas Company LLC
			Walter C. Ord	CNX Gas Company LLC
		0 16	James Freeman Stewart	CNX Gas Company LLC
		118	Clifford J. Wise	CNX Gas Company LLC
		U B	Victor E. Wise, a single man	CNX Gas Company LLC
		n 19	Jesse D. Jones, a married man	CNX Gas Company LLC
		11 12	Phyllis J. Petrosky, a widowed woman	CNX Gas Company LLC
	1	i B	Annette E. Stewart, single	CNX Gas Company LLC
		9	Harold M. Jones, Jr., a single man	CNX Gas Company LLC
		11 19	Robert Stewart	CNX Gas Company LLC
	1		Richard W. Wise	CNX Gas Company LLC
	1		Walter R. Currence	CNX Gas Company LLC
		21 IIG		CNX Gas Company LLC
		11 15	Donald D. Wise, aka Donald G. Wise	CASO CHIEF CAS A STATE OF THE S
			Maureen S. Currence Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise,	CNX Gas Company LLC
			Remaindermen	CNX Gas Company LLC
			Michelle L. Currence	CNX Gas Company LLC
			Justin P. Stewart, single	CNX Gas Company LLC
			Debra Goff	CNX Gas Company LLC
			Eleanor J. Wise, single	CNX Gas Company LLC
			Donald E. Nunley and Deborah L. Nunley	CNX Gas Company LLC
		3	Fred C. Wise and Alice F. Wise	CNX Gas Company LLC
			Patricia J. Mumaw and Richard L. Mumaw	CNX Gas Company LLC
	1	. 6	Richard A. Nunley and Diana K. Nunley	CNX Gas Company LLC
			Mary Nunley Stepelton and Donald Stepelton	CNX Gas Company LLC
	1	1		CNX Gas Company LLC
		1 13	Linda Stapp	CNX Gas Company LLC
	1		Melissa A. Bookout	CARL STREET, SALES OF SECTION OF
			Jane Irons, widow	CNX Gas Company LLC
			Eileen Ann Lyle	CNX Gas Company LLC
			Robert Eugene Michael, Sr.	CNX Gas Company LLC
	1		Frank Dennis Michael, Jr.	CNX Gas Company LLC
			Evelyn June Michael	CNX Gas Company LLC
	1	1 5	Tonya Chersin	CNX Gas Company LLC
	1		Boyd Hawkins	CNX Gas Company LLC
			Becky L. Hawkins f/k/a Becky Bortnick	CNX Gas Company LLC
		Till- October		
ract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc.
2	1-8-3	204769000	Barbara J. Wagner, a widow	CNX Gas Company LLC
	1-8-3.1	- September 1	Donald L. White, et al	CNX Gas Company LLC
			Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008	CNX Gas Company LLC
	Tou Man 9	Title Online		
ract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
3	1-9-17	188599000	Ralph Six	Antero Resources Corporation
				Jorphianon
ract ID	Tax Map &	Title Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc
TALLE .	Parcel 1-2-16	QLS#	-	
	1-2-16.2		XTO Energy, Inc.	CNX Gas Company, LLC
4	p/o 1-2-16.1	188578000	Three Rivers Royalty II, LLC Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth Snyder	CNX Gas Company, LLC
	p/o 1-2-17 p/o 1-2-17.1		Martineau Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth Snyder	CNX Gas Company, LLC
	1,57,635,6		Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC
			James Brant Snyder	CNX Gas Company, LLC
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew	CNX Gas Company, LLC
			David T. White and Sarah K. White, h/w, as JTROS	CNX Gas Company, LLC
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNX Gas Company, LLC
			Alice T. Boone	CNX Gas Company, LLC
		/	Eldon Bryant Tucker, et ux	CNX Gas Company, LLC
			Charles Tucker, et ux	CNX Gas Company, LLC
			F CONTONE CONT	Table and the second
			Robert Earl, et ux	CNX Gas Company, LLC
			David Tucker	CNX Gas Company, LLC
			James Tucker, et ux	CNX Gas Company, LLC
			Cheryl Molesky	CNX Gas Company, LLC
			Laurence D. Hare	CNX Gas Company, LLC
		1	James F. Hare III, et ux	CNX Gas Company, LLC
			Lacy L. Adams, et vir	CNX Gas Company, LLC
			Donald Pelger	CNX Gas Company, LLC
			Carl L. Anderson, et ux	CNX Gas Company, LLC
		1	David Wayne Anderson	CNX Gas Company, LLC

01/04/2019

(+) DENOTES LOCATION OF Sheffler & Company, Inc. WELL ON UNITED STATES ENGINEERING . SURVEYING TOPOGRAPHIC MAPS Phone: 412-219-4509 Email:Info@shefflerCo.com 1712 Mount Nebo Road Sewickley, PA 15143 OFFICE OF OIL & GAS 601 57TH STREET DATE: September 21, 2018, Rev. September 24, 2018 CHARLESTON, WV 25304 Well Type: Oil Waste Disposal X Production Deep OPERATOR'S WELL #: WDTN5GHSU API WELL# 47 O61 COUNTY PERMIT X Gas Liquid Injection X Shallow Storage WATERSHED: DUNKARD CREEK ELEVATION: 1412' QUADRANGLE: WADESTOWN, WV COUNTY/DISTRICT: MONONGALIA / BATTELLE OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.36 SURFACE OWNER: JOHN M. WISE, ET UX., ET AL. DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION

PLUG AND ABANDON TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,715' ± TMD: 17,991' ± WELL OPERATOR: CNX GAS COMPANY, LLC
Address: 1000 CONSOL ENERGY DRIVE DESIGNATED AGENT: CHRIS TURNER Address: 1 DOMINION DRIVE City JANE LEW Zip Code 26378 City CANONSBURG State PA Zip Code 15317 State

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc
	1-2-16	ULLO II	Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living	CNX Gas Company, LLC
(CONT.)	1-2-16.2 p/o 1-2-16.1	188578000	Trust Chris Pelger	CNX Gas Company, LLC
(00)(11.)	p/o 1-2-17	100373000	Shannon Harker	CNX Gas Company, LLC
	p/o 1-2-17.1		Chase Schwersenska	CNX Gas Company, LLC
		11	John Pelger	CNX Gas Company, LLC
		115	Holly Pelger	CNX Gas Company, LLC
1		1 8	Brenda Murphy	EQT Production Compan
1			PERSONAL PROPERTY OF THE PROPE	EQT Production Compan
			Vickie L. Simmons	EQT Production Compan
- 24			Sherry C. McCoy	EQT Production Compan
- 1			David C. Anderson	
			Kelly Dilbeck	CNX Gas Company, LLC
	Tax Map &	Title Opinion	Savi A 100 at	Country Language at a
Tract ID	Parcel	QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc
	1-2-17.2 p/o 1-2-17		XTO Energy, Inc.	CNX Gas Company, LLC
5	p/o 1-2-17.1	239935000	Three Rivers Royalty II, LLC	CNX Gas Company, LLC
	p/o 1-2-16.1		Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth Snyder Martineau	CNX Gas Company, LLC
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC
			James Brant Snyder	CNX Gas Company, LLC
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth	CNX Gas Company, LLC
			White Bartholomew	1 100 100 100 100 100 100 100 100 100 1
			David T. White and Sarah K. White, h/w, as JTROS	CNX Gas Company, LLC
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNX Gas Company, LLC
			Alice T. Boone	CNX Gas Company, LLC
			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC
			Charles Tucker, et ux	CNX Gas Company, LLC
			Robert Earl, et ux	CNX Gas Company, LLC
			David Tucker	CNX Gas Company, LLC
			James Tucker, et ux	CNX Gas Company, LLC
		1	Cheryl Molesky	CNX Gas Company, LLC
			Laurence D. Hare	CNX Gas Company, LLC
1			James F. Hare III, et ux	CNX Gas Company, LLC
1			Lacy L. Adams, et vir	CNX Gas Company, LLC
			ESSE II SCHOOL STOLE STO	The second secon
		1 13	Donald Pelger	CNX Gas Company, LLC
			Carl L. Anderson, et ux	CNX Gas Company, LLC
			David Wayne Anderson	CNX Gas Company, LLC
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust	CNX Gas Company, LLC
			Chris Pelger	CNX Gas Company, LLC
		11	Shannon Harker	CNX Gas Company, LLC
			Chase Schwersenska	CNX Gas Company, LLC
		10	John Pelger	CNX Gas Company, LLC
1		10	Holly Pelger	CNX Gas Company, LLC
		N 10	Brenda Murphy	EQT Production Compar
		11		EQT Production Compar
		14 16	Vickie L. Simmons	
			Sherry C. McCoy	EQT Production Compa
		K 13	David C, Anderson	EQT Production Compa
		10	Kelly Dilbeck	CNX Gas Company, LLC
	Tax Map &	Title Opinion		
ract ID	Parcel	QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc
6	1-2-14	188577000	XTO Energy, Inc.	CNX Gas Company, LLC
			David Liming and Nancy Liming	CNX Gas Company, LLC
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC
			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth Snyder	CNX Gas Company, LLC
			Martineau Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC
				CNX Gas Company, LLC
1			James Brant Snyder Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth	
			White Bartholomew	CNX Gas Company, LLC
			David T. White and Sarah K. White, h/w, as JTROS	CNX Gas Company, LLC
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNX Gas Company, LLC
			Alice T. Boone	CNX Gas Company, LLC
			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC
			Charles Tucker, et ux	CNX Gas Company, LLC
			Robert Earl, et ux	CNX Gas Company, LLC
			David Tucker	CNX Gas Company, LLC
			James Tucker, et ux	CNX Gas Company, LLC
			TO THE STATE OF TH	
			Cheryl Molesky	CNX Gas Company, LLC
			Laurence D. Hare	CNX Gas Company, LLC
			James F. Hare III, et ux	CNX Gas Company, LLC
			Lacy L. Adams, et vir	CNX Gas Company, LLC
			Donald Pelger	CNX Gas Company, LLC
			Carl L. Anderson, et ux	EQT Production Compar
			David Wayne Anderson	CNX Gas Company, LLC
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living	CNX Gas Company, LLC
			Trust	Jan. Cas Company, LLC
				CNIV Con Comment 110
			Chris Pelger Shannon Harker	CNX Gas Company, LLC

01/04/2019

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	Sheffler & Company, Inc. ENGINEERING • SURVEYING 1712 Mount Nebo Road Sewickley, PA 15143 Phone: 412-219-4509 Email:Info@shefflerCo.com DATE: September 21, 2018, Rev. September 24, 2018
Well Type: Oil Waste Disposal X Production Deep	OPERATOR'S WELL #: WDTN5GHSU
X Gas Liquid Injection Storage X Shallow	API WELL# 47 COUNTY PERMIT PERMIT
WATERSHED: DUNKARD CREEK ELEVATION: 1412'	
COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV	
SURFACE OWNER: JOHN M. WISE, ET UX., ET AL. ACREAGE: 207.36	
OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.36	
DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)	
TARGET FORMATION: MARCELLUS ESTIMATED	DEPTH: TVD: 7,715' ± TMD: 17,991' ±
	AGENT: CHRIS TURNER
	DOMINION DRIVE
	State WV Zip Code 26378

Tract ID	Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc.		
6 (CONT.)	1-2-14	188577000	Chase Schwersenska	CNX Gas Company, LLC		
STATE SHOW		No. of Street,	John Pelger	CNX Gas Company, LLC		
		3	Holly Pelger	CNX Gas Company, LLC		
			Brenda Murphy	EQT Production Company		
					Vickie L. Simmons	EQT Production Company
		0 5	Sherry C. McCoy	EQT Production Company		
			David C. Anderson	EQT Production Company		
			Kelly Dilbeck	CNX Gas Company, LLC		
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc		
7	1-2-13	188610000	Ralph Six	CNX Gas Company LLC		
	2.204		Huskie Lumber Co., Inc.	Antero Resources		

01/04/2019

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	Sheffler & Company, Inc. ENGINEERING • SURVEYING 1712 Mount Nebo Road Sewickley, PA 15143 Phone: 412-219-4509 Email:Info@shefflerCo.com DATE: September 21, 2018, Rev. September 24, 2018
Well Type: Oil Waste Disposal X Production	Deep OPERATOR'S WELL #: WDTN5GHSU
X Gas Liquid Injection Storage X WATERSHED: DUNKARD CREEK ELEVATION: 14	STATE COUNTY PERMIT
	WADESTOWN, WV
SURFACE OWNER: JOHN M. WISE, ET UX., ET AL. ACREAGE: 207.	
OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.	.36
DRILL X CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FR PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY)	
TARGET FORMATION: MARCELLUS	ESTIMATED DEPTH: TVD: 7,715' ± TMD: 17,991' ±
WELL OPERATOR: CNX GAS COMPANY, LLC	DESIGNATED AGENT: CHRIS TURNER
Address: 1000 CONSOL ENERGY DRIVE	Address: 1 DOMINION DRIVE
City CANONSBURG State PA Zip Code 15317	City JANE LEW State WV Zip Code 26378

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.			RECEIN Office of Oil	
			007 0 3	2018
			WV Departr Environmental	ment of Protection

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

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

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

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

Well Operator: CNX Gas Company LLC

By: Raymond Hoon

Its: Permitting Supervisor

		Attachment - Form WW-6A-1 for WTN5GHS		4/00/0182		
	Tau sau - a	Title Ont-t				
ract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1	1-8-2	189010000	Richard L. McCauley	CNX Gas Company LLC	Not less than 1/8	1442/707
			Judy A. Eckman	CNX Gas Company LLC	Not less than 1/8	1442/711
			Thomas E. McCauley	CNX Gas Company LLC	Not less than 1/8	1442/715
			Regina Wise Myers, aka Violet Regina Myers	CNX Gas Company LLC	Not less than 1/8	1450/740
_	_		Evalee A. Everly Shaheen	CNX Gas Company LLC	Not less than 1/8	1501/321
	-		Zelda Ruth Brummage	CNX Gas Company LLC	Not less than 1/8	1500/762
		_	Dexter Murle Stewart Walter C. Ord	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8	1500/277 1501/803
-		-	James Freeman Stewart	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1501/806
	-		Clifford J. Wise	CNX Gas Company LLC	Not less than 1/8	1525/130
			Victor E. Wise, a single man	CNX Gas Company LLC	Not less than 1/8	1501/813
	-		Jesse D. Jones, a married man	CNX Gas Company LLC	Not less than 1/8	1509/468
			Phyllis J. Petrosky, a widowed woman	CNX Gas Company LLC	Not less than 1/8	1510/203
			Annette E. Stewart, single	CNX Gas Company LLC	Not less than 1/8	1510/806
			Harold M. Jones, Jr., a single man	CNX Gas Company LLC	Not less than 1/8	1511/101
						1520/433
			Robert Stewart	CNX Gas Company LLC	Not less than 1/8	1520/785
			Richard W. Wise	CNX Gas Company LLC	Not less than 1/8	1516/36
			Walter R. Currence	CNX Gas Company LLC	Not less than 1/8	1524/530
			Donald D. Wise, aka Donald G. Wise	CNX Gas Company LLC	Not less than 1/8	1516/486
			Maureen S. Currence	CNX Gas Company LLC	Not less than 1/8	1520/781
			Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M.	Carrier to a	Partial Systems	Sec. All
			Wise, Remaindermen	CNX Gas Company LLC	Not less than 1/8	1520/481
			Michelle L. Currence	CNX Gas Company LLC	Not less than 1/8	1528/431
			Justin P. Stewart, single	CNX Gas Company LLC	Not less than 1/8	1520/625
			Debra Goff	CNX Gas Company LLC	Not less than 1/8	1529/256
			Eleanor J. Wise, single	CNX Gas Company LLC	Not less than 1/8	1501/809
			Donald E. Nunley and Deborah L. Nunley Fred C. Wise and Alice F. Wise	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1596/260 1597/89
			Patricia J. Mumaw and Richard L. Mumaw	CNX Gas Company LLC	Not less than 1/8	1598/230
			Richard A. Nunley and Diana K. Nunley	CNX Gas Company LLC	Not less than 1/8	1597/99
			Mary Nunley Stepelton and Donald Stepelton	CNX Gas Company LLC	Not less than 1/8	1597/85
			Linda Stapp	CNX Gas Company LLC	Not less than 1/8	1601/621
			Melissa A. Bookout	CNX Gas Company LLC	Not less than 1/8	1602/113
			Jane Irons, widow	CNX Gas Company LLC	Not less than 1/8	1602/108
			Eileen Ann Lyle	CNX Gas Company LLC	Fee	1600/462
			Robert Eugene Michael, Sr.	CNX Gas Company LLC	Fee	1599/282
			Frank Dennis Michael, Jr.	CNX Gas Company LLC	Fee	1599/267
			Evelyn June Michael	CNX Gas Company LLC	Fee	1600/800
			Tonya Chersin	CNX Gas Company LLC	Fee	1601/148
			Boyd Hawkins	CNX Gas Company LLC	Fee	1601/152
			Becky L. Hawkins f/k/a Becky Bortnick	CNX Gas Company LLC	Fee	1605/324
Z	Tax Map &	Title Opinion	A STATE OF LAND TO A STATE OF LAND	Author Police and	Brook.	p1/p
act ID		QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	Parcel		Constitution of the Consti	CNX Gas Company LLC	6-21-3-16-3-4	
-	1-8-3	204759000	Barbara I. Wagner, a widow			1506/533
2		204769000	Barbara J. Wagner, a widow		Not less than 1/8	1506/533 1507/427
	1-8-3	204769000	Donald L. White, et al	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1506/533 1507/427
	1-8-3	204769000				74.75.7
2	1-8-3	204769000 Title Opinion	Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1507/427 1515/794
2	1-8-3 1-8-3.1	Title Opinion QLS #	Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D.	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Royalty	1507/427 1515/794 Book/Page
	1-8-3 1-8-3.1	Title Opinion	Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1507/427 1515/794 Book/Page 1589/90
2 act ID	1-8-3 1-8-3.1 Tax Map & Parcel	Title Opinion QLS #	Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008 Grantor, Lessor, etc Ralph Six	CNX Gas Company LLC CNX Gas Company LLC Grantee, Lessee, etc Antero Resources Corporation	Not less than 1/8 Not less than 1/8 Royalty Not less than 1/8	1507/427 1515/794 Book/Page 1589/90 133/438
2 act ID	1-8-3 1-8-3.1 Tax Map & Parcel	Title Opinion QLS #	Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008 Grantor, Lessor, etc	CNX Gas Company LLC CNX Gas Company LLC Grantee, Lessee, etc	Not less than 1/8 Not less than 1/8 Royalty Not less than 1/8	1507/427 1515/794 Book/Page 1589/90 133/438
act ID	1-8-3 1-8-3.1 Tax Map & Parcel 1-9-17	Title Opinion QLS # 188599000	Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008 Grantor, Lessor, etc Ralph Six Antero Resources Corporation	CNX Gas Company LLC CNX Gas Company LLC Grantee, Lessee, etc Antero Resources Corporation CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Royalty Not less than 1/8 Assignment RECEIVED	1507/427 1515/794 Book/Page 1589/90 133/438 137/387
act ID	1-8-3 1-8-3.1 Tax Map & Parcel 1-9-17 Tax Map & Parcel	<u>Title Opinion</u> <u>QLS #</u> 188599000	Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008 Grantor, Lessor, etc Ralph Six	CNX Gas Company LLC CNX Gas Company LLC Grantee, Lessee, etc Antero Resources Corporation	Not less than 1/8 Not less than 1/8 Royalty Not less than 1/8 Assignment RECEIVED	1507/427 1515/794 Book/Page 1589/90 133/438 137/387
act ID	1-8-3 1-8-3.1 Tax Map & Parcel 1-9-17 Tax Map & Parcel 1-2-16	Title Opinion QLS # 188599000	Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008 Grantor, Lessor, etc Ralph Six Antero Resources Corporation	CNX Gas Company LLC CNX Gas Company LLC Grantee, Lessee, etc Antero Resources Corporation CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Royalty Not less than 1/8	1507/427 1515/794 Book/Page 1589/90 133/438 137/387
act ID	1-8-3 1-8-3.1 Tax Map & Parcel 1-9-17 Tax Map & Parcel 1-2-16 1-2-16.2	Title Opinion QLS # 188599000	Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008 Grantor, Lessor, etc Ralph Six Antero Resources Corporation	CNX Gas Company LLC CNX Gas Company LLC Grantee, Lessee, etc Antero Resources Corporation CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Royalty Not less than 1/8 Assignment RECEIVED Office Royalty It and	1507/427 1515/794 Book/Page 1589/90 133/438 137/387
2 act ID	1-8-3 1-8-3.1 Tax Map & Parcel 1-9-17 Tax Map & Parcel 1-2-16 1-2-16.2 p/o1-2-16.1	Title Opinion QLS # 188599000	Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008 Grantor, Lessor, etc Ralph Six Antero Resources Corporation	CNX Gas Company LLC CNX Gas Company LLC Grantee, Lessee, etc Antero Resources Corporation CNX Gas Company LLC	Not less than 1/8 Not less than 1/8 Royalty Not less than 1/8 Assignment RECEIVED Office Royalty It and	1507/427 1515/794 Book/Page 1589/90 133/438 137/387
2 act ID 3 act ID	1-8-3 1-8-3.1 Tax Map & Parcel 1-9-17 Tax Map & Parcel 1-2-16 1-2-16.2 p/o1-2-16.1 p/o1-2-17	Title Opinion QLS # 188599000 Title Opinion QLS #	Donald L. White, et al Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008 Grantor, Lessor, etc Ralph Six Antero Resources Corporation Grantor, Lessor, etc	CNX Gas Company LLC CNX Gas Company LLC Grantee, Lessee, etc Antero Resources Corporation CNX Gas Company LLC Grantee, Lessee, etc	Not less than 1/8 Not less than 1/8 Royalty Not less than 1/8 Assignment ASSIGNMENT	1507/427 1515/794 Book/Page 1589/90 133/438 137/387 GaS
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			Lacy L. Adams, et vir Donald Pelger	CNX Gas Company, LLC	Nortess than 1/4/	1612/566
			Carl L. Anderson, et ux	CNX Gas Company, LLC	Not less than 1/8	1612/550
	<u> </u>		David Wayne Anderson	CNX Gas Company, LLC CNX Gas Company, LLC	Not less than 1/8	1614/309
	-		Deborah Horton, Trustee and Beneficiary of the Ronald L Horton	CNX Gas Company, LLC	Not less than 1/8	1614/153
			Revocable Living Trust	CNV Gos Company 11 C	No. 1 1 10	4540 5770
		<u> </u>	Chris Pelger	CNX Gas Company, LLC	Not less than 1/8	1612/572
		_	Shannon Harker	CNX Gas Company, LLC	Not less than 1/8	1614/639
		-	<u> </u>	CNX Gas Company, LLC	Not less than 1/8	1615/704
			Chase Schwersenska	CNX Gas Company, LLC	Not less than 1/8	1614/712
			John Pelger	CNX Gas Company, LLC	Not less than 1/8	1621/329
			Holly Pelger	CNX Gas Company, LLC	Not less than 1/8	1635/236
			Brenda Murphy	EQT Production Company	Not less than 1/8	1615/281
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Vickie L. Simmons	EQT Production Company	Not less than 1/8	1615/276
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Sherry C. McCoy	EQT Production Company	Not less than 1/8	1615/278
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			David C. Anderson	EQT Production Company	Not less than 1/8	1615/285
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Kelly Dilbeck	CNX Gas Company, LLC	Not less than 1/8	131/31
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<u>ID</u>	<u>Parcel</u>	QLS#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	1-2-17.2					-
	p/o 1-2-17					
	p/o 1-2-17.1					
	p/o 1-2-16.1	239935000	XTO Energy, Inc.	CNX Gas Company, LLC	Fee	1629/449
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC	Not less than 1/8	1616/673
			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth			
			Snyder Martineau	CNX Gas Company, LLC	Not less than 1/8	1521/781
			Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC	Not less than 1/8	1522/563
			James Brant Snyder	CNX Gas Company, LLC	Not less than 1/8	1523/111
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a,	our company, LLC	rear ress undit \$10	
			Sharon White Bartholomew, a/k/a Sharon K. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew	CNX Gas Company, LLC	Not less than 1/8	1529/268
				CNX Gas Company, LLC	Not less than 1/8	1543/430
			David T. White and Sarah K. White, h/w, as JTROS	City das company, Lec	NOT less than 176	2343/430
			Glenn L. White, individually and as trustee of Glenn L. White Trust	CNV Cor Company LLC	Not less than 1/8	1516/48
				CNX Gas Company, LLC		1602/805
			Alice T. Boone	CNX Gas Company, LLC	Not less than 1/8	1602/828
		-	Eidon Bryant Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/828
		-	Charles Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	
			Robert Earl, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/822
			David Tucker	CNX Gas Company, LLC	Not less than 1/8	1602/840
			James Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/798
			Cheryl Molesky	CNX Gas Company, LLC	Not less than 1/8	1605/334
			Laurence D. Hare	CNX Gas Company, LLC	Not less than 1/8	1605/618
			James F. Hare III, et ux	CNX Gas Company, LLC	Not less than 1/8	1604/615
			Lacy L. Adams, et vir	CNX Gas Company, LLC	Not less than 1/8	1612/566
			Donald Peiger	CNX Gas Company, LLC	Not less than 1/8	1612/550
			Carl L. Anderson, et ux	CNX Gas Company, LLC	Not less than 1/8	1614/309
			David Wayne Anderson	CNX Gas Company, LLC	Not less than 1/8	1614/153
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton			
			Revocable Living Trust	CNX Gas Company, LLC	Not less than 1/8	1612/572
			Chris Pelger	CNX Gas Company, LLC	Not less than 1/8	1614/639
			Shannon Harker	CNX Gas Company, LLC	Not less than 1/8	1615/704
_			Chase Schwersenska	CNX Gas Company, LLC	Not less than 1/8	1614/712
			John Pelger	CNX Gas Company, LLC	Not less than 1/8	1621/329
_			Holly Pelger	CNX Gas Company, LLC	Not less than 1/8	1635/236
			Brenda Murphy	EQT Production Company	Not less than 1/8	1615/281
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Vickie L. Simmons	EQT Production Company	Not less than 1/8	1615/276
			EQT Production Company	CNX Gas Company, LLC	Assignment DC	136/258
			Sherry C. McCoy	EQT Production Company	Not less than 1/8	EILE
			<u> </u>	CNX Gas Company, LLC	Assignation of	
			EQT Production Company		Not less than 1/8	Ul Annico
			David C. Anderson	EQT Production Company		OH 35/258 136/258 G
			EQT Production Company	CNX Gas Company, LLC	Assignment Not less than 1/8	131/29
			Kelly Dilbeck	CNX Gas Company, LLC	NOT IESS THAN 1/8	
		<u></u>		ļ	1 001	V 3 2018 Book/Page
t ID	Tax Map &	Title Opinion	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	<u>Parcel</u>	QLS#			10/11/0	
	1-2-14	188577000	XTO Energy, Inc.	CNX Gas Company, LLC	FAVV Den	1629/449
			David Liming and Nancy Liming	CNX Gas Company, LLC	Im less than 1/8 horlids/dbOAMEN	1629/449 2717 6307797 OF
			Three Rivers Royalty II, LLC	CNX Gas Company, LLC	Hedids/460/AMP	tal Project
_			Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth			rolecti
			Snyder Martineau	CNX Gas Company, LLC	Not less than 1/8	1521/781
		i	Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley	CNX Gas Company, LLC	Not less than 1/8	1522/563
			James Brant Snyder	CNX Gas Company, LLC	Not less than 1/8	1523/111
			Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a,			
			Sharon Ruth White Bartholomew	CNX Gas Company, LLC	Not less than 1/8	1529/268
			David T. White and Sarah K. White, h/w, as JTROS	CNX Gas Company, LLC	Not less than 1/8	1543/430
	-		David 1. Writte and Saran K. Write, n/w, as JIKUS	own dus company, LLC	THUE ILES GIRTH AT U	20,07,00
			Glenn L. White, Individually and as trustee of Glenn L. White Trust	CNV Gas Company 115	Not less than 1/8	1516/48
				CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8	1602/805
			Alice T. Boone	CNX Gas Company, LLC		
			Eldon Bryant Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/828
	1		Charles Tucker, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/811
			Robert Earl, et ux	CNX Gas Company, LLC	Not less than 1/8	1602/822
_						
			David Tucker	CNX Gas Company, LLC	Not less than 1/8	1602/840
				CNX Gas Company, LLC CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8	1602/840 1602/798 1605/334

3 of 4

		1	Laurence D. Hare	CNX Gas Company, LLC	47 ONOT Ses than 1/0 1	0 2 160 /618
			James F. Hare III, et ux	CNX Gas Company, LLC	Not less than 1/8	1604/615
			Lacy L. Adams, et vir	CNX Gas Company, LLC	Not less than 1/8	1612/566
			Donald Pelger	CNX Gas Company, LLC	Not less than 1/8	1612/550
			Carl L. Anderson, et ux	EQT Production Company	Not less than 1/8	1616/275
		-	EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			David Wayne Anderson	CNX Gas Company, LLC	Not less than 1/8	1614/153
			Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton	and a surprise	Troc less than 270	1014/133
			Revocable Living Trust	CNX Gas Company, LLC	Not less than 1/8	1612/572
			Chris Pelger	CNX Gas Company, LLC	Not less than 1/8	1614/639
			Shannon Harker	CNX Gas Company, LLC	Not less than 1/8	1615/704
			Chase Schwersenska	CNX Gas Company, LLC	Not less than 1/8	1614/712
			John Pelger	CNX Gas Company, LLC	Not less than 1/8	1621/329
			Holly Peiger	CNX Gas Company, LLC	Not less than 1/8	1635/236
			Brenda Murphy	EQT Production Company	Not less than 1/8	1614/845
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Vickie L. Simmons	EQT Production Company	Not less than 1/8	1614/843
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Sherry C. McCoy	EQT Production Company	Not less than 1/8	1614/847
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			David C. Anderson	EQT Production Company	Not less than 1/8	1615/1
			EQT Production Company	CNX Gas Company, LLC	Assignment	136/258
			Kelly Dilbeck	CNX Gas Company, LLC	Not less than 1/8	131/35
						ļ
ract ID	Tax Map & Parcel	Title Opinion QLS #	<u>Grantor, Lessor, etc</u>	Grantee, Lessee, etc	Royalty	Book/Page
7	1-2-13	188610000	Ralph Six	CNX Gas Company LLC	Not less than 1/8	1620/122
			Huskie Lumber Co., Inc.	Antero Resources Corporation	Not less than 1/8	1589/96
						133/438
			Antero Resources Corporation	CNX Gas Company LLC	Assignment	137/387

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Office of Oil and Gas

OCT 0 3 2018

WV Department of Environmental Protection

Yof 4



Raymond Hoon Permitting Supervisor 1000 Consol Energy Dr. Canonsburg, PA 15317 (724) 485-3540

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

RE: Road Letter - WDTN5 Well Pad Drilling Applications

To Whom It May Concern:

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

If any further information or correspondence is required, please contact me at (724) 485-3540 or RaymondHoon@cnx.com.

Office of OH and Gas

OCT 0 3 2018

WV Department of Environmental Protection

Raymond Hoon Permitting Supervisor

Sincerely,

47 0 6 1 0 1 8 2 3

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

Date of Noti	ce Certification: 10-1-18	API	No. 47-	
			rator's Well No. WDT	N5GHSM
			l Pad Name: WDTN5	
Notice has	been given:			F TO 1 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pursuant to the	ne provisions in West Virginia Code § tract of land as follows:	22-6A, the Operator has provided	I the required parties v	with the Notice Forms listed
State:	West Virginia	Eas	ting: 556821.0330	
County:	Monongalia		thing: 4395393.9670	
District:	Battelle	Public Road Access:	CR6 Wise Run	
Quadrangle:	Wadestown	Generally used farm r	name: Wise	
Watershed:	Dunkard Creek			
it has provid information r of giving the requirements Virginia Cod	the secretary, shall be verified and sled the owners of the surface described and (c), see surface owner notice of entry to su of subsection (b), section sixteen on e § 22-6A-11(b), the applicant shall to have been completed by the applicant	need in subdivisions (1), (2) and (1) oction sixteen of this article; (ii) the rvey pursuant to subsection (a), so if this article were waived in writtender proof of and certify to the se	 subsection (b), set the requirement was ection ten of this artifing by the surface over 	ction ten of this article, the deemed satisfied as a result icle six-a; or (iii) the notice wner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY		lotice Certification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVEY V	WAS CONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAWAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	SURFACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PU	BLIC NOTICE			☐ RECEIVED
■ 6. NO	TICE OF APPLICATION			RECIRECEINED of Oil and Gas

Required Attachments:

Required Attachments:

OCT 0 3 2018

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 partie was with a collection. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification	of Notice is	hereby	given
CAN CITTORESTON	OF TIOPERSON NO	AREA CR.	

THEREFORE, I Raymond Hoon for have lead 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:	Raymond Hoon		Canonsburg, PA 15317
Its:	Permitting Supervisor	Facsimile:	
Telephone:	724-485-3540	Email:	RaymondHoon@CNX.com
Lori L. Richhil My Commis	ALTH OF PENNS LVANIA NOTARIAL SEAL Walker, Notary Public II Twp., Greene County ssion Expires Feb. 23, 2019 VANIA ASSOCIATION OF NOTARIES	Subscribed and swo	Notary Public

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas

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WW-6A (9-13)

API NO. 47-OPERATOR WELL NO. WDTN5GHSM 01/04/2019 Well Pad Name: WDTN5

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

Not	ice Time Requirement:	notice shall be provided no later th	nan the filing date of permit application.
	e of Notice: <mark>9-27-1</mark> 8 _D ice of:	ate Permit Application Filed: _	9-1-13
V	PERMIT FOR ANY WELL WORK	CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT
Deli	ivery method pursuant (to West Virginia Code § 22-6A-1	0(b)
	PERSONAL	REGISTERED METI	HOD OF DELIVERY THAT REQUIRES A
	SERVICE	MAIL RECI	EIPT OR SIGNATURE CONFIRMATION
sedi the soil a descooper mor well imp have prov prop subs reco prov Cod	ment control plan required surface of the tract on which and gas leasehold being deviated in the erosion and serator or lessee, in the event e coal seams; (4) The owner work, if the surface tract is coundment or pit as describe a water well, spring or work wide water for consumption posed well work activity is section (b) of this section hords of the sheriff required vision of this article to the lete R. § 35-8-5.7.a requires	by section seven of this article, and the the well is or is proposed to be loweloped by the proposed well work, ediment control plan submitted pursuant the tract of land on which the well person of record of the surface tract or this to be used for the placement, consider supply source located within on the by humans or domestic animals; and to take place. (c)(1) If more than the total interests in the lands, the application be maintained pursuant to section contrary, notice to a lien holder is not, in part, that the operator shall also	the well plat to each of the following persons: (1) The owners of record of cated; (2) The owners of record of the surface tract or tracts overlying the if the surface tract is to be used for roads or other land disturbance as that to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or racts overlying the oil and gas leasehold being developed by the proposed truction, enlargement, alteration, repair, removal or abandonment of any. Any surface owner or water purveyor who is known to the applicant to be thousand five hundred feet of the center of the well pad which is used to ad (6) The operator of any natural gas storage field within which the ree tenants in common or other co-owners of interests described in ant may serve the documents required upon the person described in the reight, article one, chapter eleven-a of this code. (2) Notwithstanding any of notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any gas provided in section 15 of this rule.
Ø A	Application Notice 🛛 W	VSSP Notice ☐ E&S Plan Notic	e Well Plat Notice is hereby provided to:
	URFACE OWNER(s)		☑ COAL OWNER OR LESSEE RECEIVED Name: See attached Office of Office and Gas
	ne: See attached	-	Name: See attached Office of OH and Gas Address:
Auc	v		OCT 0 3 2018
Nan	ne:		COAL OPERATOR
Add	lress:		
			Name: N/A WV Department of Address: Environmental Protection
		oad and/or Other Disturbance)	EUAllOttillettrat Lioreania
	ne: See attached		☐ SURFACE OWNER OF WATER WELL
Add	Iress:		AND/OR WATER PURVEYOR(s)
D.T.			Name: N/A
Nan	ne;		Address:
	dress: URFACE OWNER(s) (In		OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: N/A
_		mpoundments of They	Address:
Add	lress:		*Please attach additional forms if necessary

API NO. 47OPERATOR WELL NO. WDTN5GHSM
Well Pad Name: WDTN5

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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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 of an occupied dwelling structure, or a building two thousand five hundred square feet of an occupied dwelling structure, or a building two thousand five hundred square feet of an occupied dwelling structure, or a building two thousand five hundred square feet of an occupied dwelling structure, or a building two thousand five hundred square feet of an occupied dwelling structure, or a building two thousand five hundred square feet of an occupied dwelling structure, or a building two thousand five hundred square feet of an occupied dwelling structure. 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

API NO. 47- OPERATOR WELL NO. WPIN5GHSM.
Well Pad Name: WDTN5

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 thir property application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as 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

OCT 0 3 2018

WV Department of Environmental Protection

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

WW-6A (8-13) API NO. 47-____OPERATOR WELL NO. WDTN5GHSM
Well Pad Name: WDTN5 01/04/2019

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.

OUT 0 3 2018

WW-6A (8-13) API NO. 47-___OPERATOR WELL NO. WDTN5GHSM
Well Pad Name: WDTN5

WDTN5

WDTN5

WDTN5GHSM
01/04/2019

Notice is hereby given by:	4706 01823
Well Operator: CNX Gas Company, LLC	Address: 1000 Consol Energy Drive
Telephone: 724-485-3540	Canonsburg, PA 15317
Email: RaymondHoon@CNX.com	Facsimile:
Com No	

Oil and Gas Privacy Notice:

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

COMMONWEALTH OF PENNSYLVANIA

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

Commonwealth of funnsylvania

County of Walling of St day of Oce 2018.

Subscribed and sworn before me this 1st day of Notary Public

My Commission Expires Full 13 2018

WW6A Notice of Application - Attachment

WDTN5GHSM

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

Annette Stewart

41 Mimosa Dr., Martinsburg, WV 25404

Brandon Sweeney

18501 Clagget Landing, Upper Marlboro, MD 20774

Brianna Skyler Sweeney

18502 Clagget Landing, Upper Marlboro, MD 20774

Bryan Kevin Goff

9325 Beaverdam Rd., Nanjemoy, MD 20662

Clifford J. Wise

2394 County Road 137, Obrien, FL 32071

CNX Gas Company LLC

1000 Consol Energy Drive, Canonsburg, PA 15317

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1 West Hills Drive, Fairmont, WV 26554

Harold M. Jones

317 Crest Ave., Charleroi, PA 15022

James Freeman Stewart

1206 Marion Ave. Fairmont, WV 26554

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Jane Irons

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

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308 1/2 Crest Ave., Charleroi, PA 15022

John Matthew Wise and Dina Wise

2255 East 6500 South, Price, UT 84501

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Patricia Mumaw

3344 Northridge Drive, Wooster, OH 44691

Phyllis Petrosky

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

Regina W. Myers

1200 Carroll Heights Blvd., Hagerstown, MD 21742

Richard McCauley

2589 Timothy Ave., Louisville, OH 44641

Richard Nunley

261 Festival Drive, Oceanside, CA 92057

Robert Stewart

Lot 1, Route 21 MHP, Carmichaels, PA 15320

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

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

Wally Currence 16200 Bealle Hill Road, Waldorf, MD 20601

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

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

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

Coal Owner or Lessee:

Annette Stewart 41 Mimosa Dr., Martinsburg, WV 25404

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Richard McCauley 2589 Timothy Ave., Louisville, OH 44641

Richard Nunley 261 Festival Drive, Oceanside, CA 92057

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

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

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

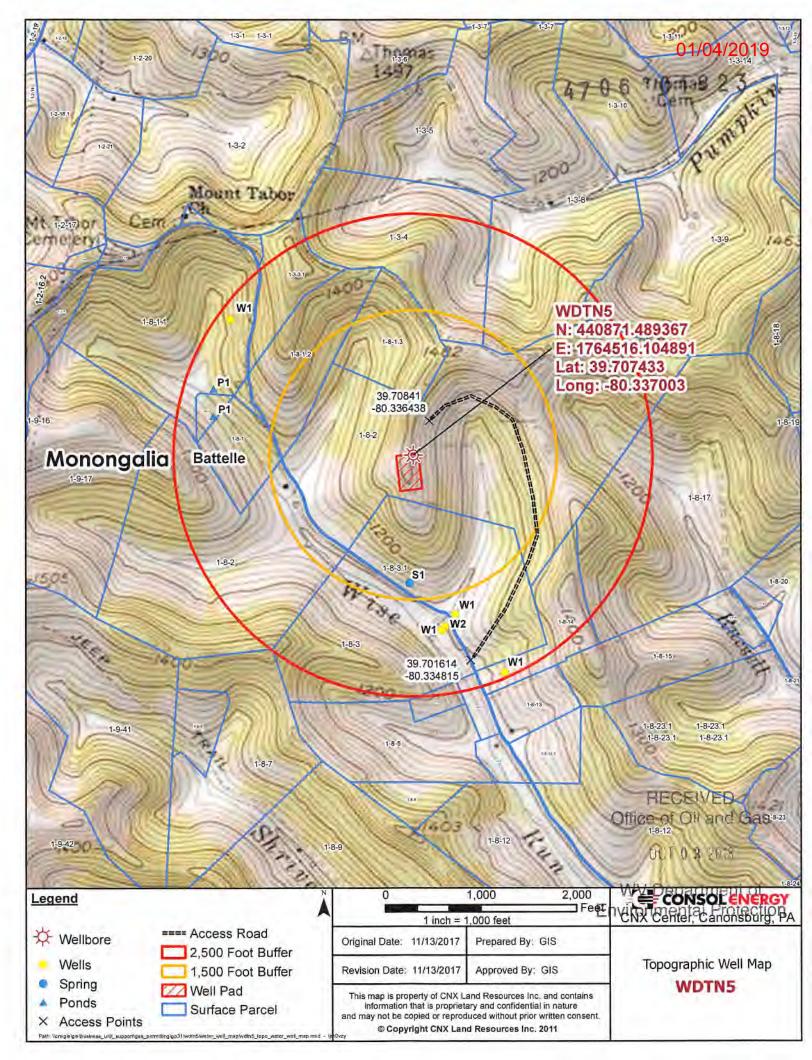
Linda Stapp 124 Reservoir Rd., St. Clairsville, OH 43950

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

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

CNX RCPC LLC 1000 CONSOL Energy Drive, Canonsburg, PA 15317 RECEIVED
Office of Oil and Gas

UCT 0 3 2018



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

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

Notice Time Date of Notice	Requirement: Notice shall be provided ce: 9-27-18 Date Pe	at least TEN (10) days prior to filing a crmit Application Filed:		
Delivery met	thod pursuant to West Virginia Code §	22-6A-16(b)		
☐ HAND DELIVE	CERTIFIED MAIL ERY RETURN RECEIPT RE	QUESTED		
receipt request drilling a hor of this subsect subsection ma	sted or hand delivery, give the surface over izontal well: <i>Provided</i> , That notice give stion as of the date the notice was provided	wher notice of its intent to enter upon the pursuant to subsection (a), section to ded to the surface owner: <i>Provided, how when</i> . The notice, if required, shall include:	an operator shall, by certified mail return ne surface owner's land for the purpose of en of this article satisfies the requirements ovever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative.	
	reby provided to the SURFACE O	1 7 1 1 1 1 7 7 60		
Name: See atta Address:	ched	Name:Address:		
			well operator has an intent to enter upon	
State:	West Virginia	Facting	556821.0330	
County:	Monongalia	UTM NAD 83 Rasting.	4395393.9670	
District:	Battelle	Public Road Access:	CR6 Wise Run	
Quadrangle:	Wadestown	Generally used farm name:	Wise	
Watershed:	Dunkard Creek			
Pursuant to 'facsimile nur related to hor	mber and electronic mail address of the rizontal drilling may be obtained from the	operator and the operator's authorize ne Secretary, at the WV Department o	ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.	
Notice is he	reby given by:			
	r: CNX Gas Company, LLC	Authorized Representative:	Raymond Hoon	
Address:	1000 Consol Energy Drive	Address:	1000 Consol Energy Drive	
Canonsburg, PA	15317	Canonsburg, PA 15317	BEO.	
Telephone:	724-485-3540	Telephone:	724-485-9610FICE	
Email:	RaymondHoon@CNX.com	Email:	RaymondHoon@CNX.com II and Gas	
Facsimile:		Facsimile:	OUT 0 3 2018	
Oil and Gas	s Privacy Notice:		MAY	

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 voltage of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office out of the complete out 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.

WW6A4 Notice of Intent to Drill - Attachment

WDTN5GHSM

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

Annette Stewart

41 Mimosa Dr., Martinsburg, WV 25404

Brandon Sweeney

18501 Clagget Landing, Upper Marlboro, MD 20774

Brianna Skyler Sweeney

18502 Clagget Landing, Upper Marlboro, MD 20774

Bryan Kevin Goff

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Clifford J. Wise

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James Freeman Stewart

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Lot 1, Route 21 MHP, Carmichaels, PA 15320

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

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

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UCT 0 3 2018

WW-6A5 (1/12) Operator Well No. WDTN5GHSM

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS 8 2 3 NOTICE OF PLANNED OPERATION

Date of Notic	e: 9-27-18 Date Pe		
Delivery met	hod pursuant to West Virginia	Code § 22-6A-16(c)	
CERTII	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a landages to the (d) The notice of notice.	requested or hand delivery, give to operation. The notice required by provided by subsection (b), section corizontal well; and (3) A propose e surface affected by oil and gas of	the surface owner whose land will y this subsection shall include: (1 on ten of this article to a surface of sed surface use and compensation operations to the extent the damage given to the surface owner at the OWNER(s)	rmit application, an operator shall, by certified mail be used for the drilling of a horizontal well notice of) A copy of this code section; (2) The information where whose land will be used in conjunction with the agreement containing an offer of compensation for some are compensable under article six-b of this chapter, address listed in the records of the sheriff at the time
Name: See attac	ched	Name:	
Name: See attac Address:	.1	Name:Address:	
Name: See attack Address:	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Monongalia Battelle Wadestown	notice is hereby given that the und urpose of drilling a horizontal well	Easting: 556821.0330 Northing: 4395393,9670 ss: CR6 Wise Run
Name: See attack Address: Notice is here Pursuant to W	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Monongalia Battelle	Address:	on the tract of land as follows: Easting: 556821.0330 Northing: 4395393,9670 s: CR6 Wise Run
Name: See attack Address:	Peby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the public West Virginia Battelle Wadestown Dunkard Creek Shall Include: Vest Virginia Code § 22-6A-16(c) dby W. Va. Code § 22-6A-10(t) ll; and (3) A proposed surface used by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE,	Address: notice is hereby given that the undurpose of drilling a horizontal well UTM NAD 83 Public Road Acces Generally used farm this notice shall include: (1)A composed to a surface owner whose land a compensation agreement compensation agreement compensation the extent the damages are compensation the Secretary, and a surface owner whose land a surface owner whos	on the tract of land as follows: Easting: 556821.0330 Northing: 4395393.9670 SS: CR6 Wise Run m name: WisPECEIVED
Name: See attack Address:	Peby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the public West Virginia Monongalia Battelle Wadestown Dunkard Creek Pest Virginia Code § 22-6A-16(c) and by W. Va. Code § 22-6A-10(t) and (3) A proposed surface used by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE, ault.aspx.	Address: notice is hereby given that the uncurpose of drilling a horizontal well UTM NAD 83 Public Road Acces Generally used farm this notice shall include: (1)A composed to a surface owner whose land a compensation agreement	on the tract of land as follows: Easting: 556821.0330 Northing: 4395393.9670 S: CR6 Wise Run m name: WispectiveD Office of Oil and Gas by of this code section; (2) The information required will be used in conjunction with the drilling of a ntaining all offer of conjunction for damages to the insable under article six-h of this chapter. Additional at the WV Department of Environmental Protection (926-0450) or by visiting www.dep.wv.gov/oil-and-
Name: See attack Address:	Peby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the public West Virginia Monongalia Battelle Wadestown Dunkard Creek Pest Virginia Code § 22-6A-16(c) and by W. Va. Code § 22-6A-10(t) and (3) A proposed surface used by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE, ault.aspx.	Address: notice is hereby given that the undurpose of drilling a horizontal well UTM NAD 83 Public Road Access Generally used farm this notice shall include: (1)A control to a surface owner whose land a and compensation agreement control the extent the damages are compensation that Secretary, a Charleston, WV 25304 (304-Address: 1000)	on the tract of land as follows: Easting: 556821.0330 Northing: 4395393.9670 S: CR6 Wise Run m name: WispectiveD Office of Oil and Gas by of this code section; (2) The information required will be used in conjunction with the drilling of a maining all offer of compensation for damages to the insable under article six-h of this chapter. Additional at the WV Department of Environmental Protection

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WW6A5 Notice of Planned Operation - Attachment

WDTN5GHSM

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

Annette Stewart

41 Mimosa Dr., Martinsburg, WV 25404

Brandon Sweeney

18501 Clagget Landing, Upper Marlboro, MD 20774

Brianna Skyler Sweeney

18502 Clagget Landing, Upper Marlboro, MD 20774

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OCT 0 3 2018



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

December 6, 2017

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

Subject: DOH Permit for the WDTN5 Pad, Monongalia County WDTN5GHSM Well Site

Dear Mr. Martin,

Jim Justice

Governor

The West Virginia Division of Highways has issued Permit #04-2017-0929 for the subject site to CNX Gas Company LLC, for access to the State Road for the well site located off of Monongalia County Route 6.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance will be the DOH OIL AND GAS POLICY dated January 3, 2012.

OCT 0 3 2018

WV Department of Environmental Protection

Very Truly Yours,

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

Gary K. Clayton

Cc: Ray Hoon

CNX Gas Company LLC

CH, OM, D-4

File

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

Type: Water CAS: 7732-18-5

Type: Silica CAS: 14808-60-7

Type: Hydrochloric Acid CAS: 7647-01-0

Type: Copolymer of Two Propenamide CAS: 69418-26-4

Type: Petroleum distillate CAS: 64742-47-8

Type: Glutaraldehyde CAS: 111-30-8

Type: Ethylene glycol CAS: 107-21-1

Type: Diethylene glycol mono n-butyl ether CAS: 112-34-5

Type: Oleic acid diethanolamide CAS: 93-83-4

Type: Alcohols, C12-16, ethoxylated CAS: 68551-12-2

Type: Quaternary ammonium compound CAS: 68424-85-1

Type: Ammonium chloride CAS: 12125-02-9

Type: Short chained glycol ether CAS: 112-34-5

Type: Ethoxylated (C10-16) alcohols CAS: 68002-97-1

Type: Metanol CAS: 67-56-1

Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

Type: Acetophenone CAS: 98-86-2

RECEIVED
Office of Oil and Gas

OCT 0 3 2018

EROSION & SEDIMENT CONTROL PLAN AND SITE RESTORATION PLAN

WDTN5 WELL SITE

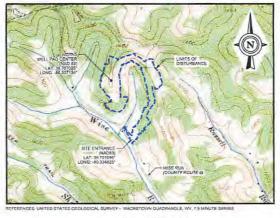
MONONGALIA COUNTY, WEST VIRGINIA

FOR









PROJECT NO. 17016-023 DECEMBER 2017

DIEFFENBAUCH & HRITZ, LLC



INDEX				
DRAWING NO.	TITLE			
1	TITLE SHEET			
2	GENERAL NOTES			
3	EXISTING SITE PLAN			
4	SOILS PLAN			
5	OVERALL SITE PLAN			
6-10	PROPOSED SITE PLAN			
H	ACCESS ROAD PROFILE			
12-14	ACCESS ROAD CROSS SECTIONS			
15	WELL PAD GROSS SECTION			
16 - 17	TOE BENCH DETAILS			
18 - 19	E&S DETAILS			
20	SITE RESTORATION PLAN			
21	SEED & WULCH PLAN			
72	QUANTITY SUMMARY			



