

## west virginia department of environmental protection

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

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

Monday, November 13, 2023 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

CNX GAS COMPANY LLC 1000 HORIZON VUE DR.

CANONSBURG, PA 15370

Re:

Permit Modification Approval for WDTN18EHSM

47-061-01948-00-00

Lateral Extension

# CNX GAS COMPANY LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

mes A. Martin

Operator's Well Number: WDTN18EHSM

Farm Name: CONSOL MINING COMPANY LLC U.S. WELL NUMBER: 47-061-01948-00-00

Horizontal 6A New Drill

Date Modification Issued: 11/13/2023

Promoting a healthy environment.

47 0 6 1 0 1 9 4 8

API NO. 47
OPERATOR WELL NO. WDTN18EHSM

Well Pad Name: WDTN18

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

1) Well Operator: CNX GAS (	COMPANY LLC	494458046		TTEL	OWN
2) Operator's Well Number: WI	DTN18EHSM /	Operator ID	County Dis	strict Quadrangle	
3) Farm Name/Surface Owner:			d Access: CAMP F	RUN ROAD CR 4	
4) Elevation, current ground: 5) Well Type (a) Gas X Other		evation, proposed Unde	post-construction: erground Storage	1199'	
90% PPR 100 100 100 100 100 100 100 100 100 10	llow X	Deep			
6) Existing Pad: Yes or No YES 7) Proposed Target Formation(s) Target formation is Marcellus S	), Depth(s), Antici	pated Thickness a	nd Expected Pressu	re(s):	
8) Proposed Total Vertical Deptl 9) Formation at Total Vertical D	h: 7848' TVD at	TD, depending o		/	
10) Proposed Total Measured De	epth: 25,523' M	D at TD /		<del></del>	
11) Proposed Horizontal Leg Le	ngth: 17,099'	/			
12) Approximate Fresh Water St	rata Depths:	103', 111', 190',	243', 259', 325', 39	99' /	
13) Method to Determine Fresh (14) Approximate Saltwater Dept		ffset Well Inform	ation		
15) Approximate Coal Seam Dep	oths: 448'-449', 5	37'-538', 612'-61	3', 614'-617', 873'	-878', 960'-974'	
16) Approximate Depth to Possil	ble Void (coal mir	ne, karst, other):	lone Anticipated		
17) Does Proposed well location directly overlying or adjacent to		Yes	No X		
(a) If Yes, provide Mine Info:	Name: see m	ine map		RECEIV Office Of Oil	ED and Gas
	Depth:			Office Of S	1 2023
CK# 2140043933 \$1500	Seam:			WV Depart Environmenta	ment of all Protection
11/8/23	Knitowski K	pigitally signed by Gayne intowski, inspector			
	Control of the Contro	Pate: 2023.10.25 14:23:24 04'00'		Page 1 of 3	

4706101948

API NO. 47-\_ OPERATOR WELL NO. WDTN18EHSM Well Pad Name: WDTN18

18)

## **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	75	46 /	96 / CTS <
Fresh Water	13.375	New	J-55	54.5	1,180	1,151	940 / CTS
Coal	13.375	New	J-55	54.5	1,180	1,151	940 / CTS
Intermediate	9.625	New	J-55	36	2,876	2,847 /	1,046 / CTS
Production	5.5	New	P-110	20	25,523	25,494	2,040 TOC @ 1,550'
Tubing	2.375	New	J-55	4.7	Above assumes RF = 29'	TBD	N/A
Liners	N/A						

Gayne Knitowski, hispector Date: 2023.10.25 14:23:53 -04'00'

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated  Max. Internal  Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	30	.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	.380	2,730	<500	Class A	1.19
Coal	13.375	17.5	.380	2,730	<500	Class A	1.19
Intermediate	9.625	12.25	.352	3,520	<2,815	Class A	1.19
Production	5.5	8.75 x 8.5	.415	14,340	~11,000	Class A or H	1.10
Tubing	2.375	N/A	.190	7,700	N/A	N/A	N/A
Liners							

# **PACKERS**

Kind:	N/A		
Sizes:			
Depths Set:			

Page 2 of 3

4706101948

OPERATOR WELL NO. WDTN18EHSM

Well Pad Name: WDTN18

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

Utilize conductor rig to set 20" conductor into solid rock and cement back to surface. MIRU drilling rig. Air drill 17-1/2" hole. Run and cement 13-3/8" fresh water casing. Note that 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 12.0-12.8 ppg SOBM. Drill 8-1/2" curve from KOP to landing point. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in Marcellus target window). Perform clean-up cycle to condition well. Run and cement 5-1/2" production casing. Suspend well and skid to next well or RDMO drilling rig.

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

Test production casing and toe prep well. MIRU stimulation/hydraulic fracturing equipment. Fracture well by pumping required number of stages utilizing plug-and-perf method. Max anticipated treating pressure is ~11,000 psi and max anticipated treating pump rate is ~100 bpm. Number of stages and stage spacing to be finalized after drilling. After last stimulation stage, drill out frac plugs and clean-out well to PBTD. Flow back and clean-up well. Tie well into production. Run tubing when required.

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

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

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

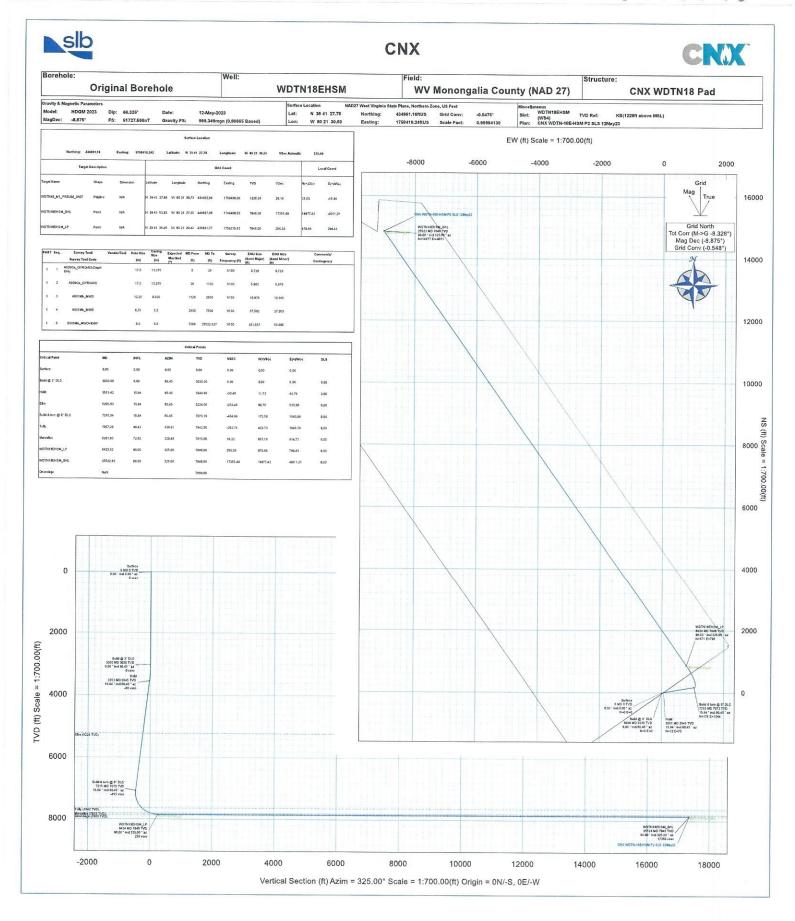
Fresh water/coal string: Class A cement with 1%-3% CaCl2 and 1/4 pps cello-flake/LCM. Intermediate string: Class A cement with 0%-2% CaCl2 and 1/4 pps cello-flake/LCM. Production string: Class A or H cement or Class H:Poz blend with dry blend and/or liquid additives including retarder, suspension agent, gas block, defoamer, fluid loss control, extender, dispersant, anti-settling agent. Actual cement blends may vary slightly depending upon cementing service company utilized.

25) Proposed borehole conditioning procedures:

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

\*Note: Attach additional sheets as needed.

Page 3 of 3



September 13, 2023



## WDTN18 M1 WV Area of 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 WDTN18 M1 wells that are within West Virginia state boundary. These wells extended their origination in West Virginia cross the state line into Pennsylvania. 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, Status, Formation at TD, Total Depth, and Lat/Long (see Figures 3 and 6).

The Marcellus Shale of the Wadestown area is found at an approximate True Vertical Depth (TVD) of 8,000'. In the Wadestown area, there were very few wells that produced from formations deeper than the Bayard Sand (approximately 3,600'). With that being said, there are **no known vertical wells that reach a total depth within 1,500 vertical feet of the Marcellus Shale**. 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 WDTN18 M1 wells.

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 area. Geomechanical data is available that suggests the Tully Limestone to be an adequate upward frac barrier for Marcellus hydraulic fracturing. This data was collected from dipole sonic logs. CNX's nearest sonic data is from the NV20CCV well (Figure 4), approximately 21.4 miles north of the WDTN18 pad. Frac modeling (Figure 5) of the Marcellus in the area does not show significant upward frac growth.

There are no known CNX Marcellus lateral wells that lie within 500' of the proposed WDTN18 M1 wells. If any CNX Marcellus wells existed within 500' of the WDTN18 laterals, we would monitor and utilize the Production Control Room (PCR) to set up alarms via CygNet for any abrupt casing pressure or water rate changes. Those variances are outlined below. If the CNX PCR receives an alarm, the process is to notify the production foreman and production engineer responsible for the pad so that they can analyze if a frac hit is imminent, or if the alarm is of little to no concern. Should a communication event occur that triggers DEP notification requirements per 35CRS8 Section 9.3.a, CNX will follow and implement applicable guidance documents regarding incident reporting and resolution.

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

There are no  $3^{\rm rd}$  Party Marcellus lateral wells that lie within 500' of the proposed WDTN18 M1 wells in West Virginia.

September 13, 2023



**Figure 1.** Zero 3<sup>rd</sup> Party Marcellus wells lie within a 500' buffer around the proposed WDTN18 laterals, producing from the Marcellus Shale, shown below.

Well Name/API	Formation	Operator	Orientation	Within Zone of Influence	TVD Dept (ft)
N/A			N N		

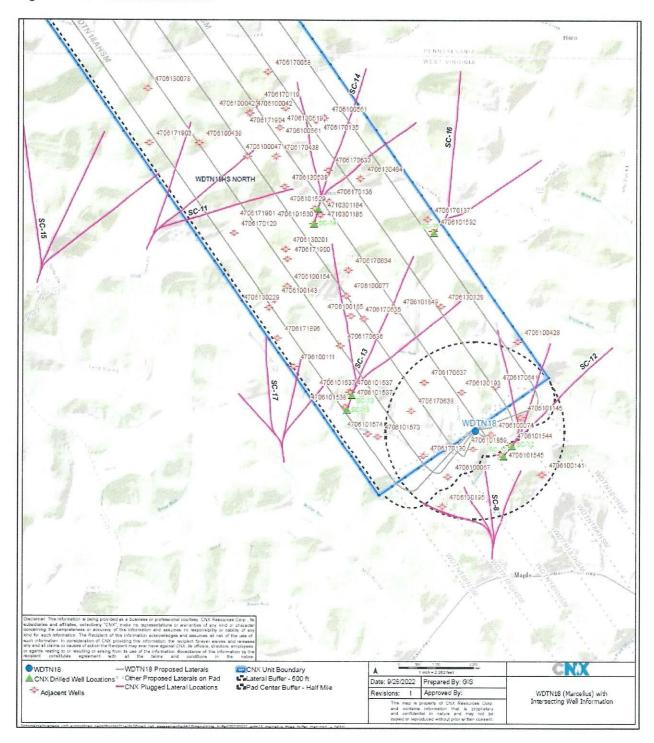
**Figure 2.** Zero CNX wells producing from formations within 1,500' above or below the Marcellus Shale and within 500' of proposed WDTN18 laterals.

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



September 13, 2023

**Figure 3.** 18 wells lie within a 500' buffer around the WDTN18 M1 pad that penetrate the Big Injun Sand or deeper horizons (highlighted green in the table on page 6). The deepest well is 3,740' and produces from the Bayard Sand. No known SOG Communication events have occurred in this area. The pink horizontal wells in the figure below are Pittsburgh Coal seam horizontal laterals.

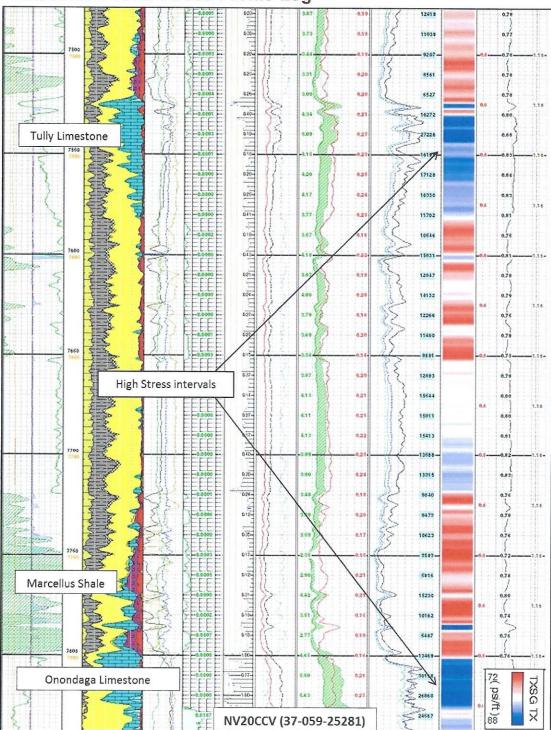




September 13, 2023

**Figure 4.** 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.

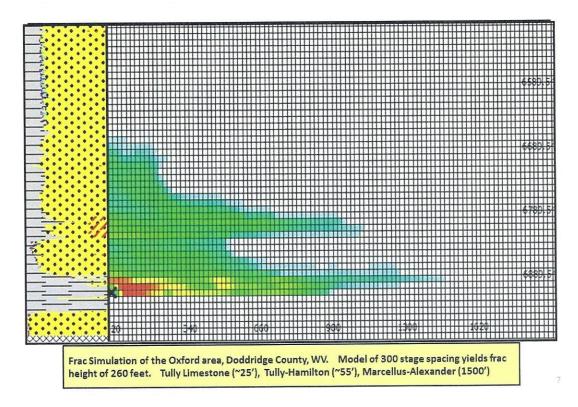
# Wadestown Area Stress Profile Log





September 13, 2023

**Figure 5.** 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 predicts frac height of approximately 300'.



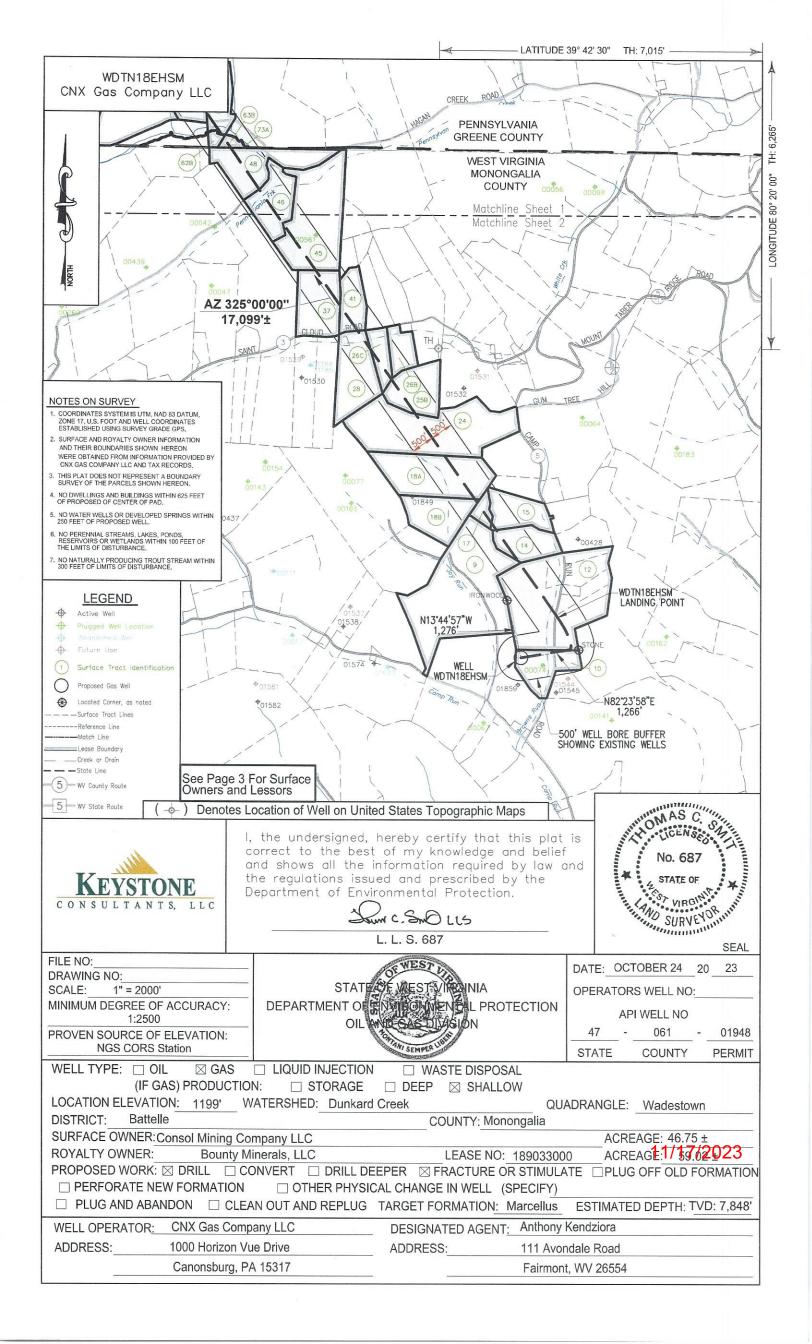
5 | Page

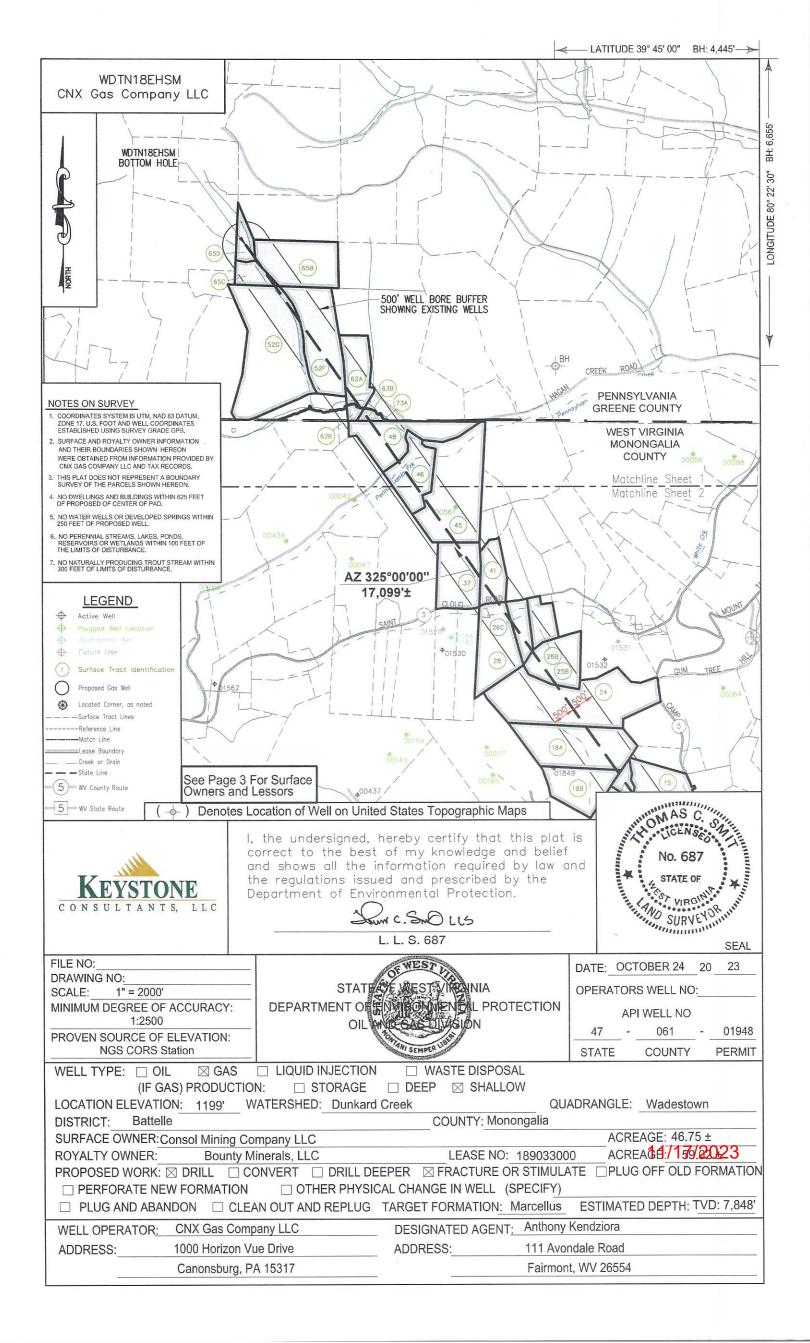


September 13, 2023

**Figure 6.** 70 wells lie within the 500' buffer of the entire WDTN18 M1 wells and pad. With the data available, only 18 of them can be verified to penetrate the Big Injun Sand or deeper stratigraphy (green). 14 of them are Pittsburgh Coal seam wells. 38 wells have no Formation or TD information available (status highlighted pink). Completion reports are not available for these on the WVGES website.

		-			Fluid Ton	Beafile Ton	Completion Formatio	Current Statu	Total Dept -	Latitude - MIGSS -	Longitude - WGS8 -
API Number		- W	ell Numbe		OIL & GAS	Profile Typ	PITTSBURGH COAL	INACTIVE	912	39,707169	-B0.382924
47061015320000			SC16A	CNX					920	39.700238	-80.371501
47081001850000	HENNEN, ALEX - HEIRS 1		1	OPER IN MIN.OWNER FLD.NO CODE ASSGN(ORPHAN WELL PROJ)		٧	SEWICKLEY COAL	P&A			
47051015380000	CONSOLIDATION COAL CO		SC13A	CNX	OIL & GAS	V	PITTSBURGH COAL	INACTIVE	1001	39.692845	-90.371995
47081015450000	CONSOLIDATION COAL COMP	AI	SC12A	CNX	OIL & GAS	V	PITTSBURGH COAL	ACTIVE	1210	39.689061	-80.355512
	:ONSOLIDATION COAL COMP		SC12	CNX	OIL & GAS	V	UNIDENTIFIED COAL	INACTIVE	1210	39.689912	-80.354637
47051015740000		O1	SC 8A	DIVERSIFIED ENERGY	OIL & GAS	v	PITTSBURGH COAL	INACTIVE	1250	39,690665	-80.389574
			SC13	CNX	OIL & GAS	н	PITTSBURGH COAL	INACTIVE	1270	39.69402	-80.371478
47051015370000				CNX	CBM	H	<nul></nul>	DRILLED	1270	39.69402	-80,371478
47061015370100			SC13							39,69402	-80.371478
47051015370200			SC13	CNX	CBM	н	<nul></nul>	COMPLETED	1270		
47051015290000	MOORE, EDGAR & SETH		SC14	CNX	OIL & GAS	٧	PITTSBURGH COAL	INACTIVE	1304	39.708911	-80.375388
47051015300000	MOORE, EDGAR & SETH		SC14A	CNX	OIL & GAS	٧	PITTSBURGH COAL	INACTIVE	1304	39,70788	-90.375445
47051001430000		2	1	OPER IN MIN.OWNER FLD.NO CODE ASSGN(ORPHAN WELL PROJ)	GAS	V	PITTSBURGH COAL	P&A	1454	39.701449	-90.379491
47051015730000			SC B	DIVERSIFIED ENERGY	GAS	V	UNIDENTIFIED COAL	P&A	1520	39,690478	-80.388527
47081001540000			2	OPER IN MIN.OWNER FLD, NO CODE ASSGN(ORPHAN WELL PROJ)		V	PITTSBURGH COAL	P&A	1630	39,702509	-80.378177
			-		UNKNOWN	П	1 TT CECTION CONE	INACTIVE	2890	39.717309	-80.381557
47051701190000				GIBSON & GILES					3188	39.687224	-80.361097
47051000570000		0		(N/A)	GAS	٧	BIG INJUN (PRICE&EQ)	P&A			
47051000420000	SIX, D.A. 1		1	OPER IN MIN.OWNER FLD.NO CODE ASSGN(ORPHAN WELL PROJ)		٧	PITTSBURGH COAL	P&A	3195	39.715554	-90.382306
47061000420001	SIX. D.A. 1		1	OPER IN MIN.OWNER FLD.NO CODE ASSGN/ORPHAN WELL PROJ)	UNKNOWN	V	PITTSBURGH COAL	P&A	3155	39,716654	-80.382306
47051305190000				NELSON M RICHARDS	GAS	U	FIFTY-FOOT	INACTIVE	3260	39.715424	-80.379117
47061000170000				PILLAR ENERGY LLC	LINKNOWN	V		P&A	3362	39.692305	-80.375926
					WATER	11	1ST SALT SAND	INACTIVE	3363	39.71847	-80.393011
47051300780000				WALKER/CONKLIN/MINTR		V	101 OMLI OMNU	P&A	3371	39,713071	-80.382494
47051000470000				(N/A)	UNKNOWN						-80.358582
47051000740000	TENNANT, LEMLEY 5266			(N/A)	GAS	V	THIRTY-FOOT	P&A	3385	39.690707	
47051304840000	J H STILES			AM SNIDER	GAS	U	BAYARD	INACTIVE	3448	39.711364	-90.37068
47051001110000		*	1	PITTSBURGH & WV GAS	GAS	V	BAYARD	P&A	3453	39.585078	-90.377426
47051303740000				CLOVIS ROY W	GAS	ш	BAYARD	INACTIVE	3465	39.708579	-90.359601
			2000	A V COMPANY	GAS	V	FIFTH	P&A	3471	39.682173	-80.35359
47081011450000			2505		GAS	V	BAYARD	P&A	3501	39.711683	-80.394039
	GILMORE, ELIZABETH, ETUX		1	BIG SAND DRILLING/BIG SANDY GAS			BATARD		3520	39,708819	-90.38381
47051701200000				(N/A)	UNKNOWN	U		INACTIVE			
47951302290000	E C CLOVIS			PITTSBURGH & WV GAS	GA5	U	BIG INJUN (PRICE&EQ)	INACTIVE	3578	39,700874	-80.380055
47061305390000				B GUY & A G PATTERSON	GAS	U	FIFTH	INACTIVE	3580	39.710639	-90.378553
	SHRIVER, CHARLES F. 1-38	32		A V COMPANY	WATER	V	BAYARD	P&A	3740	39.687472	-90.351244
	CONSOL MINING COMPANY I		THISTHE		UNKNOWN	H		EXPIRED PERMIT	r <nult></nult>	39,689504	-80.358481
		Tr AAT	JIN TOWNS	PILLAR ENERGY LLC	GAS	1/	WATCHESON OF THE	ACTIVE		39.598254	-80.353963
4705100428000								ACTIVE		39.698981	-80.381931
4705100437000				PILLAR ENERGY LLC	GAS	*				39.694108	-80.359785
4705130193000			1	PITTSBURGH & WV GAS	GAS	U	BAYARD	INACTIVE			
4706130195000	MAHLON TENNANT HEIRS		1	MANUFACTURERS LIGHT & HEAT CO	GAS	U	BAYARD	INACTIVE		39.584778	-80.351558
4708130201000				PITTSBURGH & WV GAS	UNKNOWN	U		INACTIVE		39,705564	-80.378374
4705130222000		7	2	PITTSBURGH & WV GAS	GAS	U	BAYARD	INACTIVE		39.703049	-90.385587
4705130328000		r		MANUFACTURERS LIGHT & HEAT CO	GAS	U	BAYARD	INACTIVE		39,701069	-80,35204
		F	2		GAS	ii ii	GORDON STRAY	INACTIVE		39,719919	-80.373313
4705130475000				CARNEGIE NATURAL GAS CO			GORDON STRAY	INACTIVE		39.719919	-80.373313
4705130475000			2	CARNEGIE NATURAL GAS CO	GAS	U					-80.380429
4705170058000	R V HENNEN/TAYLOR			BP BP	UNKNOWN	U	FIFTH	INACTIVE		39.719892	
4705170130000	1	7	1	OPER IN MIN.OWNER FLD.NO CODE ASSGN/ORPHAN WELL PROJ)	UNKNOWN	U	FIFTH	INACTIVE		39,588838	-80.383724
4708170135000				CARNEGIE NATURAL GAS CO	UNKNOWN	U		INACTIVE		39.715004	-80.375361
4706170136000				CARNEGIE NATURAL GAS CO	UNKNOWN	U		INACTIVE		39.709479	-80.373871
				PHILADELPHIA COMPANY, THE	UNKNOWN	Ü		INACTIVE		39.708124	-80.363544
4705170137000						U		INACTIVE		39.693478	-80.348335
4705170157000				(N/A)	UNKNOWN					39.700584	-80.381932
4708170181000				MANUFACTURERS LIGHT & HEAT CO	UNKNOWN	U		INACTIVE			
4705170438000	D SEKIMBLE			(N/A)	UNKNOWN	U		INACTIVE		39.71307	-90.37949
4705170633000				BP	UNKNOWN	U		INACTIVE		39.712055	-80.374044
4706170634000				(N/A)	UNKNOWN	U		INACTIVE		39.703915	-90,371794
4708170835000				CLOVIS	UNKNOWN	U		INACTIVE		39.699995	-80.370104
				(N/A)	UNKNOWN	U		INACTIVE		39.697819	-80.372544
4705170535000				(N/A)	UNKNOWN	Ü		INACTIVE		39.594917	-80.363723
4705170537000								INACTIVE		39.692594	-80.365037
4705170838000				PHILADELPHIA OIL CO	UNKNOWN	U		INACTIVE		39.694525	-80.355215
4705170541000	S S WHITE			PHILADELPHIA OIL CO	UNKNOWN	U					
4705171895000	O ALEX HENNEN			(N/A)	UNKNOWN	U		INACTIVE		39.6984	-80.379115
4705171895000				CLOVIS	UNKNOWN	U		INACTIVE		39,69811	-80.380804
4705171900000				BP	UNKNOWN	U		INACTIVE		39.704788	-80.378177
4705171901000				(N/A)	UNKNOWN	U		INACTIVE		39.707689	-80.382494
					UNKNOWN	Ü		INACTIVE		39.714086	-80.392816
4706171903000				(N/A)				INACTIVE		39.716989	-80.378552
4705171904000				(N/A)	UNKNOWN	U					-80.378562 -80.371981
4705100077000	D ALEX HENNEN			PITTSBURGH & WV GAS	DRY HOLE	V		P&A		39.701883	
4708100439000	O OLA SIX			EQUITRANS MIDSTREAM	UNKNOWN	V		P&A		39.714087	-80.387561
4708100561000		7	37	EQT	GAS	V		P&A		39.7162	-80.374489
		10	37	EOT	GAS	v		P&A		39.7162	-80.374489
4706100561000			91	INDIGO ENERGY	UNKNOWN	v		P&A		39.720908	-80.401636
4705101510000						v	MAXTON	P&A		39.708413	-80.374798
4710301184000				J A & M OIL & GAS COMPANY	UNKNOWN					39.708413	-80.374798
4710301185000	D SANTEE HEIRS 6			J A & M OIL & GAS COMPANY	GAS	٧	MAXTON	P&A		35,105413	*50.519156





	WDTN18EHSM				
(CN)	K Gas Company LLC	DACE 7 OF 6			
TRACT ID	SURFACE OWNER	PAGE 3 OF 6	5111	7 /	
9	Consol Mining Company LLC	Paul Reeder	PIN 1-9-33	- /	
		Consolidation Coal Company		✓ WDTN18EHSM —	
11122337		CONSOL Mining Company LLC			/ 7 / /
TRACTID	SURFACE OWNER	CNX Resource Holdings LLC LESSOR	PIN	-	
10	Consol Mining Company LLC	Eastern Associated Coal Corporation	1-9-37		
TRACTID	- 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	**************************************	1-9-38	2500'	00074
12	SURFACE OWNER	LESSOR	PIN 1-9-39		01859 <sup>0</sup> 01544 001545
			1-9-39.1	.   \	
	Canada Ministra Canada Maria		1-9-39.2	00067	00141
	Consol Mining Company LLC, et al	Raiph Six	1-9-39.3 1-9-39.4		
			1-9-39.5		1" = 2000'
			1-9-39.6		
		Antero Resources Corporation		Well Refere	ences
		Doris Margaret White		R	EFFRENCE
TDACTIO		George Stephen Knight		_	STAKE N64'20'23"E
TRACT ID	SURFACE OWNER Curtis L Thomas, et ux	LESSOR Curtis L. Thomas and Diana B. Thomas	PIN		19'00'25"W————————————————————————————————————
	oures e momus, et ux	Curtis L. Hiomas and Diana B. Hiomas	1-9-40.3	_	STAKE
				48 4500	WDTN18EHSM
				1" = 1500'	SURFACE HOLE LOCATION (SHL)
					UTM 17 NAD 83
					N: 4393673.36 E: 555024.08
					NAD 83, WV NORTH
					N: 434998.533 E: 1726982.378
					LAT/LON DATUM NAD 83
					LAT: 39°41'28.067"
					LON: 80°21'29.773"
					LANDING POINT UTM 17 NAD 83
					N: 4393942.65
					E: 555262,29 NAD 83, WV NORTH
					N: 435869.124
					E: 1727778.793
					LAT/LON DATUM NAD 83 LAT: 39°41'36,746"
					LON: 80°21'19.691"
				WDTN18 WELL PAD	BOTTOM HOLE LOCATION (BHL)
					UTM 17 NAD 83 N: 4398159.90
					E: 552203.29 NAD 83, WV NORTH
			W	DTN18AHSM OOWDTN18UH	ISM N: 449875 262
			N N	DTN18BHSM O O WDTN18EH DTN18CHSM O O WDTN18DH	ISM E: 1717972.316
			"	DIMISCHSM OO WDTN18DF	
					LAT: 39°43'54,226" LON: 80°23'26,920"
					ALL S O S O
		I, the undersigned, hereby cert	ify that	this plat is	No. 687
		correct to the best of my kno		and belief	STATE OF THE PARTY
	1111	and shows all the information	required	by law and	No. 687
	FUSTONE	the regulations issued and pre	scribed	by the	STATE OF
0.0		Department of Environmental F	Protectio	n.	A STATE OF
COR	NSULTANTS, LLC	30 00			VIRGIN
		Jaum C. Smo	115		SURVEY SURVEY
		L. L. S. 687		×	SEAL
FILE N	O:	WITCH.			
	ING NO:	OF WEST ()	0	DATE:	OCTOBER 24 20 23
SCALE	: 1" = 1000'	See 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INIA	OPERATO	RS WELL NO:
MINIM	UM DEGREE OF ACCURACY	DEPARTMENT OF THE DEPARTMENT O	L PRO	OTECTION	
	1:2500	OIL ANTESAS DIV	SION	123	API WELL NO
PROVE	EN SOURCE OF ELEVATION			47	- 061 - 01948
-	NGS CORS Station	W SEMPER U		STATE	COUNTY PERMIT
WELL	TYPE: ☐ OIL ☐ GA	S   LIQUID INJECTION   WAST	TE DISPOS	AL	
	(IF GAS) PRODUCT	ΠΟΝ: ☐ STORAGE ☐ DEEP	⊠ SHALL	OW	
LOCAT	ION ELEVATION: 1199'			QUADRANGI	LE: Wadestown
DISTR			JNTY: Mo		
	ACE OWNER: Consol Minin				CREAGE: 4675+2022
			EASE NO.	and the second s	11/11/2023
					CREAGE: 59.02 ± PLUG OFF OLD FORMATION
1 1 10	JOLD HOIM. M DIVILL				LUG OFF OLD FORMATION
	FREORATE NEW ECONATIO	JVI UTHED BRAGICYI CHAYICE IX	I \\/ = I I //	SDECIEVI	
□ P	ERFORATE NEW FORMATION	ON ☐ OTHER PHYSICAL CHANGE IN CLEAN OUT AND REPLUG TARGET FOR			ATED DEPTH: TVD: 7,848'

DESIGNATED AGENT: Anthony Kendziora

111 Avondale Road

Fairmont, WV 26554

ADDRESS:\_

WELL OPERATOR: CNX Gas Company LLC

1000 Horizon Vue Drive

Canonsburg, PA 15317

ADDRESS: \_\_\_\_

#### WDTN18EHSM CNX Gas Company LLC

PAGE 4 OF 6

TRACT ID	SURFACE OWNER	LESSOR	PIN	
15	Curtis L Thomas, et ux	Gail T. Bellucci	1-9-40.1	
		Alma E. Kirkland Revocable Living Trust Agreement, Bank of		
		Oklahoma N.A., Sole Successor Trustee		
		Sherry Lemons		
		Melissa Kubischke		
		Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer		
		Revocable Trust		
		Stephen D. Kirkland and Julie D. Kirkland, Trustees of the		
		Kirkland Family Revocable Trust dated September 2, 1998		
		Louise Kirkland Berg		
		Christine A. Kirkland, as Trustee of the Christine A. Kirkland		
		Trust		
		Catherine C. Kirkland		
		Ann W. Haning		
		Morgan Haning		
		Zachery Haning		
		Catherine Haning Coleman		
		Kathleen Farmer		
		A. E. Hennen III		
		John K. Hennen		
		David Michael Hennen		
		Mary Hennen		
		Robert Douglas Hennen		
		Sarah C. Sheridan		
and the same of th		Curtis L. Thomas and Diana B. Thomas		
		Hugh Kirkland		
		Patrick Lee North, individually and as co-executor of the		
		Edward Lee North Estate		
		Diane H. Goncalves, individually and as co-executor of the		
		Edward Lee North Estate		
		Barbara Haning		
RACT ID	SURFACE OWNER	LESSOR	PIN	
17	Wolfpen Knob Development	Gail T. Bellucci	1-9-40.4	
	Wonpen knob bevelopment	Alma E. Kirkland Revocable Living Trust Agreement, Bank of	13 40.4	
		Oklahoma N.A., Sole Successor Trustee		
		Sherry Lemons		
		Melissa Kubischke		
		Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer		
		Revocable Trust		
		Stephen D. Kirkland and Julie D. Kirkland, Trustees of the		
		Kirkland Family Revocable Trust dated September 2, 1998		
		Louise Kirkland Berg		
		Christine A. Kirkland, as Trustee of the Christine A. Kirkland		
		Trust		
		Catherine C. Kirkland		
			-	
		Ann W. Haning		
		Morgan Haning		
		Morgan Haning		
		Morgan Haning Zachery Haning		
		Morgan Haning Zachery Haning Catherine Haning Coleman		
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer		
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III		
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen		
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Michael Hennen Mary Hennen		
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Michael Hennen Mary Hennen Robert Douglas Hennen		
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Michael Hennen Mary Hennen		
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Michael Hennen Mary Hennen Robert Douglas Hennen Sarah C. Sheridan		
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Michael Hennen Mary Hennen Robert Douglas Hennen Sarah C. Sheridan Hugh Kirkland		
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Michael Hennen Mary Hennen Robert Douglas Hennen Sarah C. Sheridan Hugh Kirkland Patrick Lee North, individually and as co-executor of the	44/47	<i>1</i> 202
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Michael Hennen Mary Hennen Robert Douglas Hennen Sarah C. Sheridan Hugh Kirkland Patrick Lee North, individually and as co-executor of the Edward Lee North Estate	11/17	7/202
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Michael Hennen Mary Hennen Robert Douglas Hennen Sarah C. Sheridan Hugh Kirkland Patrick Lee North, individually and as co-executor of the Edward Lee North Estate Diane H. Goncalves, individually and as co-executor of the	11/17	7/202
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Michael Hennen Mary Hennen Robert Douglas Hennen Sarah C. Sheridan Hugh Kirkland Patrick Lee North, individually and as co-executor of the Edward Lee North Estate Diane H. Goncalves, individually and as co-executor of the Edward Lee North Estate	11/17	//202
		Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Michael Hennen Mary Hennen Robert Douglas Hennen Sarah C. Sheridan Hugh Kirkland Patrick Lee North, individually and as co-executor of the Edward Lee North Estate Diane H. Goncalves, individually and as co-executor of the	11/17	7/202

CONSULTANTS, LLC

API WELL NO 47 - 061 -01948

STATE COUNTY PERMIT

## WDTN18EHSM CNX Gas Company LLC

PAGE 5 OF 6

18A	SURFACE OWNER	LESSOR	PIN
	CNX RCPC LLC	Donna R. Hennen	1-9-20
		WOG Leasing, LLC	
	According to the second		
		Milan W. Cikovich, Jr. and Susan K. Cikovich, husband and wife	
		EQT Production Company	
		Don Fordyce	
		Betty Short	
		Milan W. Cikovich, Jr. and Christine Michelle Park, individually	
		and trustee of of the Amended and Restated Milan W.	
	8	Cikovich Testamentary Trust F/B/O Francine R. Cikovich	
		, , , , , , , , , , , , , , , , , , , ,	
	9*	Melissa Ann Hennen Limbaugh	
		Linda S. Sansone	
		Mildred Louise Walton Judy Kay Marshall, f/k/a Judy Kay Howard	
	7/2/2/2007	Mary Virginia Davis	
		Karen S. Gray	
		Helene M. Muetzel	
		James R. Hennen, Jr.	
		Cecil Hennen	
		Roger L. Pratt	10131-1-1-1
		Nelson James Hennen, Jr.	
		Clark H. Hennen	
		Delores Ann Hennen Bryant	
	The state of the s	Francis J. Waldron Hennen	
		Ronald Fordyce	
		James Cox Joseph Muto	
		Joseph Muto	
		Robert Morgan and Vickie Morgan	
		Terra Firma Company	
		CNX Land LLC	
TRACT ID	SURFACE OWNER	LESSOR	PIN
18B	CNX RCPC LLC	Kimeric and Company LLC	1-9-20
TDA CT ID		Antero Resources Corporation	
TRACT ID	SURFACE OWNER	LESSOR	PIN
TRACT ID	Consol Mining Company LLC SURFACE OWNER	Bounty Minerals, LLC	1-9-19
25B	CNX RCPC LLC	LESSOR	PIN
230	CIVA NOTO LEC	Marsha W. Byers and Stephen R. Byers  David C. White a/k/a David Charles White and Regina S. White	1-9-9.6
		a/k/a Regina Sue White	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey	
		a/k/a Regina Sue White  Candace L. McPheron and Douglas A. McPheron  Howard L. Leckey  Lucy Mae Stickley	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed	
		a/k/a Regina Sue White  Candace L. McPheron and Douglas A. McPheron  Howard L. Leckey  Lucy Mae Stickley	
		a/k/a Regina Sue White  Candace L. McPheron and Douglas A. McPheron  Howard L. Leckey  Lucy Mae Stickley  Betty Ann Reed  David Ray Stone	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed David Ray Stone Donald E. Stone Marian Rebecca Stone Garrett Patricia Kathaleen White Hoekstra	
		a/k/a Regina Sue White  Candace L. McPheron and Douglas A. McPheron  Howard L. Leckey  Lucy Mae Stickley  Betty Ann Reed  David Ray Stone  Donald E. Stone  Marian Rebecca Stone Garrett  Patricia Kathaleen White Hoekstra  Alvy Scott White	
		a/k/a Regina Sue White  Candace L. McPheron and Douglas A. McPheron  Howard L. Leckey  Lucy Mae Stickley  Betty Ann Reed  David Ray Stone  Donald E. Stone  Marian Rebecca Stone Garrett  Patricia Kathaleen White Hoekstra  Alvy Scott White  Karen Imogene Meyer	
		a/k/a Regina Sue White  Candace L. McPheron and Douglas A. McPheron  Howard L. Leckey  Lucy Mae Stickley  Betty Ann Reed  David Ray Stone  Donald E. Stone  Marian Rebecca Stone Garrett  Patricia Kathaleen White Hoekstra  Alvy Scott White  Karen Imogene Meyer  Robert S. Elliott	
		a/k/a Regina Sue White  Candace L. McPheron and Douglas A. McPheron  Howard L. Leckey  Lucy Mae Stickley  Betty Ann Reed  David Ray Stone  Donald E. Stone  Marian Rebecca Stone Garrett  Patricia Kathaleen White Hoekstra  Alvy Scott White  Karen Imogene Meyer  Robert S. Elliott  Carol Sue Davis	
		a/k/a Regina Sue White  Candace L. McPheron and Douglas A. McPheron  Howard L. Leckey  Lucy Mae Stickley  Betty Ann Reed  David Ray Stone  Donald E. Stone  Marian Rebecca Stone Garrett  Patricia Kathaleen White Hoekstra  Alvy Scott White  Karen Imogene Meyer  Robert S. Elliott  Carol Sue Davis  Edwin Ray White, II	
		a/k/a Regina Sue White  Candace L. McPheron and Douglas A. McPheron  Howard L. Leckey  Lucy Mae Stickley  Betty Ann Reed  David Ray Stone  Donald E. Stone  Marian Rebecca Stone Garrett  Patricia Kathaleen White Hoekstra  Alvy Scott White  Karen Imogene Meyer  Robert S. Elliott  Carol Sue Davis  Edwin Ray White, II  Melinda Reid Hatton	
		a/k/a Regina Sue White  Candace L. McPheron and Douglas A. McPheron  Howard L. Leckey  Lucy Mae Stickley  Betty Ann Reed  David Ray Stone  Donald E. Stone  Marian Rebecca Stone Garrett  Patricia Kathaleen White Hoekstra  Alvy Scott White  Karen Imogene Meyer  Robert S. Elliott  Carol Sue Davis  Edwin Ray White, II  Melinda Reid Hatton  Dennis F. Hatton Jr.	
		a/k/a Regina Sue White  Candace L. McPheron and Douglas A. McPheron  Howard L. Leckey  Lucy Mae Stickley  Betty Ann Reed  David Ray Stone  Donald E. Stone  Marian Rebecca Stone Garrett  Patricia Kathaleen White Hoekstra  Alvy Scott White  Karen Imogene Meyer  Robert S. Elliott  Carol Sue Davis  Edwin Ray White, II  Melinda Reid Hatton  Dennis F. Hatton Jr.  Amanda Hatton	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed David Ray Stone Donald E. Stone Marian Rebecca Stone Garrett Patricia Kathaleen White Hoekstra Alvy Scott White Karen Imogene Meyer Robert S. Elliott Carol Sue Davis Edwin Ray White, II Melinda Reid Hatton Dennis F. Hatton Jr. Amanda Hatton Jane E. McIntyre and Glenn C. McIntyre	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed David Ray Stone Donald E. Stone Marian Rebecca Stone Garrett Patricia Kathaleen White Hoekstra Alvy Scott White Karen Imogene Meyer Robert S. Elliott Carol Sue Davis Edwin Ray White, II Melinda Reid Hatton Dennis F. Hatton Jr. Amanda Hatton Jane E. McIntyre and Glenn C. McIntyre Jan W. Ellison and Thomas A. Ellison	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed David Ray Stone Donald E. Stone Marian Rebecca Stone Garrett Patricia Kathaleen White Hoekstra Alvy Scott White Karen Imogene Meyer Robert S. Elliott Carol Sue Davis Edwin Ray White, II Melinda Reid Hatton Dennis F. Hatton Jr. Amanda Hatton Jane E. McIntyre and Glenn C. McIntyre	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed David Ray Stone Donald E. Stone Marian Rebecca Stone Garrett Patricia Kathaleen White Hoekstra Alvy Scott White Karen Imogene Meyer Robert S. Elliott Carol Sue Davis Edwin Ray White, II Melinda Reid Hatton Dennis F. Hatton Jr. Amanda Hatton Jane E. McIntyre and Glenn C. McIntyre Jan W. Ellison and Thomas A. Ellison Mary Ann Borkowski and Marc Borkowski Edith B. White	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed David Ray Stone Donald E. Stone Marian Rebecca Stone Garrett Patricia Kathaleen White Hoekstra Alvy Scott White Karen Imogene Meyer Robert S. Elliott Carol Sue Davis Edwin Ray White, II Melinda Reid Hatton Dennis F. Hatton Jr. Amanda Hatton Jane E. McIntyre and Glenn C. McIntyre Jan W. Ellison and Thomas A. Ellison Mary Ann Borkowski and Marc Borkowski	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed David Ray Stone Donald E. Stone Marian Rebecca Stone Garrett Patricia Kathaleen White Hoekstra Alvy Scott White Karen Imogene Meyer Robert S. Elliott Carol Sue Davis Edwin Ray White, II Melinda Reid Hatton Dennis F. Hatton Jr. Amanda Hatton Jane E. McIntyre and Glenn C. McIntyre Jan W. Ellison and Thomas A. Ellison Mary Ann Borkowski and Marc Borkowski Edith B. White Robert L. Tate, Jr.	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed David Ray Stone Donald E. Stone Marian Rebecca Stone Garrett Patricia Kathaleen White Hoekstra Alvy Scott White Karen Imogene Meyer Robert S. Elliott Carol Sue Davis Edwin Ray White, II Melinda Reid Hatton Dennis F. Hatton Jr. Amanda Hatton Jane E. McIntyre and Glenn C. McIntyre Jan W. Ellison and Thomas A. Ellison Mary Ann Borkowski and Marc Borkowski Edith B. White Robert L. Tate, Jr. Nancy Emerick	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed David Ray Stone Donald E. Stone Marian Rebecca Stone Garrett Patricia Kathaleen White Hoekstra Alvy Scott White Karen Imogene Meyer Robert S. Elliott Carol Sue Davis Edwin Ray White, II Melinda Reid Hatton Dennis F. Hatton Jr. Amanda Hatton Jane E. McIntyre and Glenn C. McIntyre Jan W. Ellison and Thomas A. Ellison Mary Ann Borkowski and Marc Borkowski Edith B. White Robert L. Tate, Jr. Nancy Emerick Doris Jean White	
		a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed David Ray Stone Donald E. Stone Marian Rebecca Stone Garrett Patricia Kathaleen White Hoekstra Alvy Scott White Karen Imogene Meyer Robert S. Elliott Carol Sue Davis Edwin Ray White, II Melinda Reid Hatton Dennis F. Hatton Jr. Amanda Hatton Jane E. McIntyre and Glenn C. McIntyre Jan W. Ellison and Thomas A. Ellison Mary Ann Borkowski and Marc Borkowski Edith B. White Robert L. Tate, Jr. Nancy Emerick Doris Jean White Anita Susan Talbott	

11/17/2023



API WELL NO

47 - 061 - 01948

STATE CC

COUNTY

PERMIT

#### WDTN18EHSM CNX Gas Company LLC

PAGE 6 OF 6

TRACT ID	SURFACE OWNER	LESSOR	PIN
26B	Kevin Hartley, et ux	Kevin Hartley and Linda Hartley	1-9-7
TRACT ID	SURFACE OWNER	LESSOR	PIN
26C	Kevin Hartley, et ux	Kevin Hartley and Linda Hartley	1-9-7
		Betty Carol Canan	
		Neil M. Canan	
TRACT ID	SURFACE OWNER	LESSOR	PIN
			1-9-6
28	Paul David Beck, et al	Bounty Minerals, LLC	1-9-6.1
	1992	509	1-9-6.2
TRACT ID	SURFACE OWNER	LESSOR	PIN
37	Mike J. Prendergast, et ux	Mike J. Prendergast and Thelma M. Predergast	1-2-7
TRACT ID	SURFACE OWNER	LESSOR	PIN
41	Paul David Beck, et al	Bounty Minerals, LLC	1-2-8
TRACT ID	SURFACE OWNER	LESSOR	PIN
45	Consol Mining Company LLC	Aliakbar Afshari	1-2-5
=0.00		Amir H. Mohammadi	
- 177		EQT Production Company	
		EQT Production Company	
		Flossie Kimble; Denzle Kimble and Olive Irene Wright Kimble	
		Consolidation Coal Company	
TRACT ID	SURFACE OWNER	LESSOR	PIN
46	Consol Mining Company LLC	Elkhorn Minerals, LLC	1-2-5
		Shuman Inc.	
		Noumenon Corporation	
		O-Max Coal Company	
		Flossie Kimble; Denzle Kimble and Olive Irene Wright Kimble	
		Consolidation Coal Company	
TRACT ID	SURFACE OWNER	LESSOR	PIN
48	Consol Mining Company LLC	Elkhorn Minerals, LLC	1-2-4
		James L. Taylor and DeEtta K. Taylor	
		Consolidation Coal Company	

11/17/2023



API WELL NO

WW-6A1 (5/13)

Operator's Well No. WDTN18EHSM

#### 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

RECEIVED
Office Of Oil and Gas

NOV -1 2023

WV Department of Environmental 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:

SARAH WEIGAND

Its:

MANAGER PERMITTING SERVICES

Page 1 of

		Attachment - Forn	n WW-6A-1 for WDTN18EHSM				
ract ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
9	Parcel 1-9-33	188616000	Consol Mining Company LLC	Paul Reeder	R-1000000000000000000000000000000000000		
				Consolidation Coal Company	CONSOL Mining Company LLC	Fee Quitclaim	1309/43 1489/10
				CONSOL Mining Company LLC CNX Resource Holdings LLC	CNX Resource Holdings LLC CNX Gas Company LLC	Quitclaim	1603/78
		TH. 0.11. 010			CNX Gas Company LEC	Quitclaim	1667/86
act ID	Parcel	Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
10	1-9-37 1-9-38	203527000	Consol Mining Company LLC	Eastern Associated Coal Corporation	CNX Gas Company LLC	Fee	1267/23
act ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
12	1-9-39	189024000	Consol Mining Company LLC, et al	Ralph Six	Antero Resources Corporation	Not less than 1/8	1701/25
	1-9-39.1 1-9-39.2 1-9-39.3 1-9-39.4 1-9-39.5 1-9-39.6	189009000 189019000 189020000 189021000 189022000 189023000		Antero Resources Corporation	CNX Gas Company LLC		1781/35
-	-			Davis Manager & Wilde		Assignment	158/372
				Doris Margaret White George Stephen Knight	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1484/34 1482/43
et ID	Tax Map &	Title Opinion QLS	Surface Owner				1402/43
	Parcel	#		Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
14	1-9-40.3	188607000	Curtis L Thomas, et ux	Curtis L. Thomas and Diana B. Thomas	CNX Gas Company LLC	Not less than 1/8	1824/416
ct ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
15	Parcel 1-9-40.1	188606000	Curtis L Thomas, et ux	Gail T. Bellucci		80,800.8	50
				Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A.,	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1653/686
				Sole Successor Trustee Sherry Lemons			- 51
				Melissa Kubischke	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1634/11
				Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust	CNX Gas Company LLC	Not less than 1/8	1634/80
				Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family	CNX Gas Company LLC	Not less than 1/8	1636/31
_				Revocable Trust dated September 2, 1998	200 CANDON (ACCORDING TO ACCORDING TO ACCORD		
				Louise Kirkland Berg Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1631/89
_			And the second second	Catherine C. Kirkland Ann W. Haning	CNX Gas Company LLC	Not less than 1/8	1627/705
				Ann W. Haning Morgan Haning	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1626/728
				Zachery Haning	CNX Gas Company LLC	Not less than 1/8	1633/514
				Catherine Haning Coleman Kathleen Farmer	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1626/733
				A. E. Hennen III	CNX Gas Company LLC	Not less than 1/8	1629/520
				John K. Hennen David Michael Hennen	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8	1627/654
				Mary Hennen	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1627/718
				Robert Douglas Hennen Sarah C. Sheridan	CNX Gas Company LLC	Not less than 1/8	1631/27
				Curtis L. Thomas and Diana B. Thomas	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1639/527 1824/416
				Hugh Kirkland			
				Patrick Lee North, individually and as co-executor of the Edward Lee North Estate Diane H. Goncalves, individually and as co-executor of the Edward Lee North	CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC	Fee Fee	1628/647 1629/411
				Estate	City one company LLC	Fee	
				Barbara Haning	CNX Gas Company LLC	Fee	
t ID	Parcel	Title Opinion QLS	Surface Owner		CNX Gas Company LLC  Grantee, Lessee, etc	Fee Royalty	1628/641
			Surface Owner  Wolfpen Knob Development	Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci	Grantee, Lessee, etc		1628/641 Book/Page
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gall T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A.,	Grantee, Lessee, etc	Royalty	1628/641 Book/Page 1653/686
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee  Sherry Lemons	Grantee, Lessee, etc  CNX Gas Company LLC  CNX Gas Company LLC  CNX Gas Company LLC	Royalty Not less than 1/8	1628/641 Book/Pag 1653/686 1637/103
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gall T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee  Sherry Lemons  Melisza Kubischke	Grantee, Lessee, etc CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8	1628/641 Book/Page 1653/686 1637/103 1634/111
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gall T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee  Sherry Lemons  Melissa Kubischke  Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust	Grantee, Lessee, etc CNX Gas Company LLC	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8	1628/641 Book/Page 1653/686 1637/103
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee  Sherry Lemons  Meliss Kubischke  Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust  Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family	Grantee, Lessee, etc CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC CNX Gas Company LLC	Royalty  Not less than 1/8  Not less than 1/8  Not less than 1/8  Not less than 1/8	1628/641  Book/Pag.  1653/686 1637/103 1634/111 1634/116 1634/80
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Gail T. Kirkiand Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Louise Kirkland Berg	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty  Not less than 1/8	1628/641  Book/Pag. 1653/686 1637/103 1634/111 1634/116 1636/311 1631/89
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee  Sherry Lemons  Meliss Kubischke  Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust  Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998  Louise Kirkland Berg  Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty  Not less than 1/8	1628/641  Book/Page 1653/686 1637/103 1634/111 1634/116 1634/311 1631/89 1637/559
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee  Sherry Lemons Meliss Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust  Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Louise Kirkland Berg  Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust  Catherine C. Kirkland, and Trustee of the Christine A. Kirkland Trust	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty  Not less than 1/8	1628/641  Book/Pag  1653/686 1637/103 1634/111 1634/10 1634/80 1636/311 1631/89 1627/659
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Alma E. Kirkiand Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Louise Kirkland Berg Christine A. Kirkland Brustee of the Christine A. Kirkland Trust Catherine C. Kirkland	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty  Not less than 1/8	1628/641  Book/Pag  1653/686  1637/103  1634/111  1634/111  1634/80  1636/311  1631/89  1627/659  1627/705
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Gail T. Bellucci  Gail T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee  Sherry Lemons  Melissa Kubischke  Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust  Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family  Revocable Trust dated September 2, 1998  Louise Kirkland Berg.  Louise Kirkland, as Trustee of the Christine A. Kirkland Trust  Catherine C. Kirkland, as Trustee of the Christine A. Kirkland Trust  Catherine C. Kirkland  Ann W. Haning  Zachery Haning  Zachery Haning	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty  Not less than 1/8	1628/641  Book/Pag  1653/686 1657/103  1634/111 1634/116 1636/311 1637/659 1627/659 1627/659 1631/64
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Gail T. Bellucci  Gail T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee  Sherry Lemons  Melissa Kubischke  Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust  Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family  Revocable Trust dated September 2, 1998  Louise Kirkland Berg  Christine A. Kirkland are Trustee of the Christine A. Kirkland Trust  Catherine C. Kirkland  Ann W. Haning  Morgan Haning  Zachery Haning  Catherine Haning Coleman  Kathleen Farmer	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty  Not less than 1/8	1628/641  Book/Pag  1653/686 1637/103  1634/111 1634/116 1634/80 1637/859 1627/659 1626/728 1631/64 1633/64 1636/711 1636/711
	Parcel	#		Barbara Haning  Grantor, Lessor, ete  Gail T. Bellucci  Alma E. Kirkkand Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melitsa Kubitchke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Christine A. Kirkland Berg Christine A. Kirkland Serg Christine A. Kirkland, Strustee of the Christine A. Kirkland Trust Catherine C. Kirkland Ann W. Haning Jachery Haning Lachery Haning Lachery Haning Lachery Haning Catherine Catherine C. Rennen III John K. Hennen III	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty  Not less than 1/8	1628/641  Book/Pag  1653/686  1657/103  1634/111  1634/111  1631/89  1627/755  1637/765  1637/163  1633/514  1633/514
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gall T. Bellucci  Gall T. Bellucci  Gall T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke  Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust  Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust  Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust  Catherine C. Kirkland, as Trustee of the Christine A. Kirkland Trust  Catherine C. Kirkland, as Trustee of the Christine A. Kirkland Trust  Catherine C. Kirkland, as Trustee of the Christine A. Kirkland Trust  Catherine Haning  Morgan Haning  Zachery Haning  Catherine Haning Coleman  Kathleen Farmer  A. E. Hennen III  John K. Hennen	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty  Not less than 1/8	1628/641 Book/Pag 1653/686 1637/103 1634/111 1634/81 1636/311 1631/89 1627/659 1627/705 1626/733 1626/732 1631/84 1636/311
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	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Alma E. Kirkiand Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Louise Kirkland Berg Christine A. Kirkland ard Trustee of the Christine A. Kirkland Trust Catherine C. Kirkland Ann W. Haning Morgan Haning Zachery Haning Zachery Haning Zachery Haning Zacher Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Mitchael Hennen Mary Hennen	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty  Not less than 1/8	1628/641 Book/Pag 1653/686 1637/103 1634/111 1634/81 1636/311 1631/89 1627/659 1627/705 1626/733 1626/732 1631/84 1636/311
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	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Louise Kirkland Berg. Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine C. Kirkland Ann W. Haning Morgan Haning Zachery Haning Zachery Haning Zachery Haning Jachery Haning	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty  Not less than 1/8  Not less than 1/8	1628/641 Book/Pag 1653/686 1637/103 1634/111 1634/116 1634/80 1636/311 1631/89 1627/659 1627/755 1631/64 1633/541 1626/733 1629/733 1629/752 1631/22 1631/22 1631/22 1631/22
	Parcel	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Louise Kirkland Berg. Louise Kirkland and Berg. Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine C. Kirkland and Morgan Haning Zachery Haning Zachery Haning Zachery Haning Sachen Haning Coleman Kathleen Farmer A. E. Hennen John M. Hennen David Michael Hennen Mary Hennen Sarah C. Sheridan Hugh Kirkland Hugh Kirkland Hugh Kirkland Hugh Kirkland Fattic Lee North, Individually and as co-executor of the Edward Lee North Estate Diane H. Goncalves, individually and as co-executor of the Edward Lee North Estate	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty	1628/641  Beok/Pag 1653/686 1637/103 1634/111 1634/116 1634/80 1636/311 1631/89 1627/659 1627/753 1628/753 1629/520 1631/22 1631/22 1631/22 1639/527 1628/647 1628/647
	Parcel	#		Barbara Haning  Grantor, Lessor, ete  Gail T. Bellucci  Gail T. Bellucci  Alma E. Kirkkand Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melitsa Kubitchke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Christine A. Kirkland Berg Christine A. Kirkland Berg Christine A. Kirkland Serg Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine C. Kirkland Ann W. Haning Jachery Haning Lachery Haning Lachery Haning Lachery Haning Lachery Haning Lachery Haning A. E. Hennen III John K. Hennen David Mitchael Hennen Mary Hennen Robert Douglas Hennen Sarah C. Sheridan  Flatik Lee North, Individually and as co-executor of the Edward Lee North Estate Diane H. Goncalves, individually and as co-executor of the Edward Lee North	Grantee, Lessee, etc  CNX Gas Company LLC	Not less than 1/8	1628/641  Book/Pag 1653/686 1637/103 1634/111 1634/116 1634/31 1631/89 1627/659 1627/703 1631/64 1633/514 1636/733 1629/520 1631/22 1627/654 1637/131 1631/22 1627/131
7	Parcel 1-9-40.4	#		Barbara Haning  Grantor, Lessor, etc  Gail T. Beliucci  Alma E. Kirkiand Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Christine A. Kirkland Berg Christine A. Kirkland Berg Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine C. Kirkland Ann W. Haning David Michael Haning Cachery Haning Cachery Haning Cachery Haning Cachery Haning David Michael Hennen Mathleen Farmer A. E. Hennen III John K. Hennen David Michael Hennen Robert Douglas Hennen Robert Douglas Hennen Sarah C. Sheridan Hugh Kirkland Patrick Lee North, individually and as co-executor of the Edward Lee North Estate Barbara Haning	Grantee, Lessee, etc  CNX Gas Company LLC  CNX Gas	Royalty	1628/641  Book/Page 1653/686 1637/103 1634/111 1634/116 1634/01 1631/02 1631/03 1631/03 1631/03 1631/03 1631/03 1631/03 1631/04 1631/03 1631/02 1632/641
ttID :	Parcel 1-9-40.4	# 205196000	Wolfpen Knob Development	Barbara Haning  Grantor, Lessor, ete  Gail T. Bellucci Alma E. Kirkkand Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melitsa Kubitschke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Louise Kirkland Berg Christine A. Kirkland ard Trustee of the Christine A. Kirkland Trust Catherine C. Kirkland Ann W. Haning Morgan Haning Zachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Mitchael Hennen Robert Douglas Hennen Sarah C. Sheridan Hugh Kirkland Farick Les North, individually and as co-executor of the Edward Lee North Estate Daine H. Goncalves, individually and as co-executor of the Edward Lee North Estate Estabrar Haning ONX Resource Holdings LLC  Granter, Lessor, etc  Donna R. Hennen	Grantee, Lessee, etc  CNX Gas Company LLC  CNX Gas Company LC  CNX Gas Comp	Royalty	1628/641  Book/Page 1653/686 1657/103 1634/111 1634/116 1634/80 1636/311 1631/89 1627/659 1627/659 1626/728 1631/22 1631/22 1631/22 1631/22 1631/27 1631/27 1639/527 1639/527 1629/641 1629/410 1628/647
ttID :	Parcel 1-9-40.4  I-9-40.4  I-9-40.4  I-9-40.4	# 205196000	Wolfpen Knob Development  Surface Owner	Barbara Haning  Grantor, Lessor, ete  Gail T. Beliucci Alma E. Kirkkand Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melitsa Kubitchke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Louise Kirkland Berg Christine A. Kirkland Serg Christine A. Kirkland Serg Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine C. Kirkland Ann W. Haning Morgan Haning Lachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Mitchael Hennen Mary Hennen Robert Douglas Hennen Sarah C. Sheridan  Hugh Kirkland Patrick Lee North, individually and as co-executor of the Edward Lee North Estate Daine H. Goncalves, individually and as co-executor of the Edward Lee North Estate Estabara Haning CNX Resource Holdings LLC  Grantor, Lessor, etc  Donna R. Hennen WGG Leasing, LLC	Grantee, Lessee, etc  CNX Gas Company LLC  CNX Gas	Royalty	1628/641  Book/Page 1653/686 1657/103 1634/111 1634/116 1634/80 1636/311 1631/89 1627/659 1627/659 1626/728 1631/22 1631/22 1631/22 1631/22 1631/27 1631/27 1639/527 1639/527 1629/411 1629/410 1628/647 1628/641
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17	Parcel 1-9-40.4  I-9-40.4  I-9-40.4  I-9-40.4	# 205196000	Wolfpen Knob Development  Surface Owner	Barbara Haning  Grantor, Lessor, ete  Gail T. Beliucci Alma E. Kirkkand Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melitsa Kubitchke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Louise Kirkland Berg Christine A. Kirkland Serg Christine A. Kirkland Serg Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine C. Kirkland Ann W. Haning Morgan Haning Lachery Haning Catherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Mitchael Hennen Mary Hennen Robert Douglas Hennen Sarah C. Sheridan  Hugh Kirkland Patrick Lee North, individually and as co-executor of the Edward Lee North Estate Daine H. Goncalves, individually and as co-executor of the Edward Lee North Estate Estabara Haning CNX Resource Holdings LLC  Grantor, Lessor, etc  Donna R. Hennen WGG Leasing, LLC	Grantee, Lessee, etc  CNX Gas Company LLC  CNX Gas	Royalty	1628/641  Book/Page 1653/686 1657/103 1634/111 1634/111 1634/111 1634/116 1634/80 1627/659 1627/659 1627/659 1631/64 1631/51 1631/51 1631/52 1631/541
ttID :	Parcel 1-9-40.4  I-9-40.4  I-9-40.4  I-9-40.4	# 205196000	Wolfpen Knob Development  Surface Owner	Barbara Haning  Grantor, Lessor, etc  Gail T. Beliucci Alma E. Kirkiand Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Christine A. Kirkland Berg Christine A. Kirkland Berg Christine A. Kirkland Strustee of the Christine A. Kirkland Trust Catherine C. Kirkland Ann W. Haning Jachery Haning Zachery Haning Zachery Haning Zachery Haning Jacherine Haning Coleman Kathleen Farmer A. E. Hennen III John K. Hennen David Milchael Hennen Mary Hennen Robert Douglas Hennen Sarah C. Sheridan Hugh Kirkland Patrick Lee North, individually and as co-executor of the Edward Lee North Estate Dana R. Goncalves, individually and as co-executor of the Edward Lee North Estate Barbara Haning CNX Resource Holdings LLC  Grantor, Lessor, etc  Donna R. Hennen WOG Lessing, LLC Milan W. Cikovich, Jr. and Susan K. Cikovich, husband and wife	Grantee, Lessee, etc  CNX Gas Company LLC  CNX Gas	Royalty	1628/641  Book/Page 1653/686 1637/103 1634/111 1634/116 1634/311 1634/116 1634/311 1631/39 1627/659 1627/659 1631/64 1631/31 1631/21 1631/22
ttID :	Parcel 1-9-40.4  I-9-40.4  I-9-40.4  I-9-40.4	# 205196000	Wolfpen Knob Development  Surface Owner	Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julic D. Kirkland, Trustees of the Kirkland Family Revocable Trust thated September 2, 1998  Louise Kirkland Berg Christine A. Kirkland and Julic D. Kirkland, Trustees of the Kirkland Trust Catherine C. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine A. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine Haning Cachery Haning Zachery Haning Zachery Haning Zachery Haning Zachery Haning Rabent Douglas Hennen Mary Hennen David Mitchael Hennen Mary Hennen Robert Douglas Hennen Robert Douglas Hennen Hugh Kirkland Patrick Lee North, Individually and as co-executor of the Edward Lee North Estate Diane H. Goncalves, individually and as co-executor of the Edward Lee North Estate Barbara Haning CKX Resource Holdings LLC  Grantor, Lessor, etc  Donna R. Hennen WOG Leasing, LLC  Milan W. Cikovich, Ir. and Susan K. Cikovich, husband and wife EQT Production Company  Don Fordyce Betty Short	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty	1628/641  Book/Page 1653/686 1637/103 1634/111 1634/116 1634/80 1636/311 1631/89 1627/659 1627/055 1631/64 1642/416
ttID :	Parcel 1-9-40.4  I-9-40.4  I-9-40.4  I-9-40.4	# 205196000	Wolfpen Knob Development  Surface Owner	Barbara Haning  Grantor, Lessor, etc  Gall T. Bellucci Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust Catherine C. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine C. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine Haning Cathery Haning Morgan Haning Zachery Haning Zachery Haning David Michael Mennen Mary Hennen Catherine Haning Coleman Mary Hennen M	Grantee, Lessee, etc  CNX Gas Company LLC	Royalty	1628/641 1653/686 1653/686 1657/103 1634/111 1634/116 1634/80 1636/311 1634/80 1636/311 1637/753 1631/69 1637/753 1631/22 1631/24 1644/41 1817/841
7	Parcel 1-9-40.4  I-9-40.4  I-9-40.4  I-9-40.4	# 205196000	Wolfpen Knob Development  Surface Owner	Barbara Haning  Grantor, Lessor, etc  Gall T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust Stephen D. Kirkland and Family Louise Kirkland Berg Louise Kirkland Berg Louise Kirkland Berg Louise Kirkland and Family Louise Kirkland Trust Catherine A. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine I. Haning Morgan Haning Zachery Haning Zachery Haning Zachery Haning Dane M. Hennen David Michael Hennen Mary Hennen Mary Hennen Mary Hennen Mary Hennen Mary Hennen Sarah C. Sheridan Hugh Kirkland Hugh Kirkland Sartick Lee North, Individually and as co-executor of the Edward Lee North Estate Barbara Haning CIX Resource Holdings LLC  Grantor, Lessor, etc  Donna R. Hennen WOG Leasing, LLC  Millan W. Cikovich, Jr. and Susan K. Cikovich, husband and wife EQT Production Company  Don Fordyce Betty Short Millan W. Cikovich, Jr. and Christine Milchelle Park, Individually and trustee of of the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich	Grantee, Lessee, etc  CNX Gas Company LLC	Not less than 1/8	1628/641  Book/Page 1653/686 1637/103 1634/111 1634/116 1634/311 1634/116 1634/311 1631/39 1627/559 1626/728 1631/64 1637/31 1631/22 1631/25 1631/25 1631/25 1631/25 1631/25 1631/25 1631/25
ttID :	Parcel 1-9-40.4  I-9-40.4  I-9-40.4  I-9-40.4	# 205196000	Wolfpen Knob Development  Surface Owner	Barbara Haning  Grantor, Lessor, etc  Gail T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated September 2, 1998 Louise Kirkland Berg Christine A. Kirkland Berg Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine C. Kirkland Ann W. Haning Morgan Haning Zachery Haning Zachery Haning Zachery Haning Zachery Haning David Michael Hennen Mary Hennen Morgan Haning Coleman Kathleen Milan W. Cikovich, Individually and as co-executor of the Edward Lee North Estate Barbara Haning ONX Resource Holdings LLC  Grantor, Lessor, etc  Donna R. Hennen WGG Lessing, LLC  Milan W. Cikovich, Jr. and Susan K. Cikovich, husband and wife EQT Production Company  Don Fordyce Betty Short Milan W. Cikovich, Jr. and Christine Michelle Park, individually and trustee of of the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich Milan W. Cikovich, Jr. and Christine Michelle Park, individually and trustee of of the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich Milan M. Cikovich Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich	Grantee, Lessee, etc  CNX Gas Company LLC  CNX Gas	Not less than 1/8	1634/111 1634/116 1634/116 1634/116 1634/116 1634/116 1631/89 1627/659 1627/659 1628/6728 1631/54 1626/733 1629/520 1627/654 1627/754 1627/754 1627/754 1627/754 1627/754 1627/754 1627/713 1639/527 1628/647 1628/647 1817/841 1817/841 1817/841 1817/841 1817/841 1817/841 1817/841 1817/841 1817/841 1817/841 1817/841 1817/841 1817/841 1817/841
7	Parcel 1-9-40.4  I-9-40.4  I-9-40.4  I-9-40.4	# 205196000	Wolfpen Knob Development  Surface Owner	Barbara Haning  Grantor, Lessor, etc  Gall T. Bellucci  Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee Sherry Lemons Melissa Kubischke Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust Stephen D. Kirkland and Family Louise Kirkland Berg Louise Kirkland Berg Louise Kirkland Berg Louise Kirkland and Family Louise Kirkland Trust Catherine A. Kirkland, as Trustee of the Christine A. Kirkland Trust Catherine I. Haning Morgan Haning Zachery Haning Zachery Haning Zachery Haning Dane M. Hennen David Michael Hennen Mary Hennen Mary Hennen Mary Hennen Mary Hennen Mary Hennen Sarah C. Sheridan Hugh Kirkland Hugh Kirkland Sartick Lee North, Individually and as co-executor of the Edward Lee North Estate Barbara Haning CIX Resource Holdings LLC  Grantor, Lessor, etc  Donna R. Hennen WOG Leasing, LLC  Millan W. Cikovich, Jr. and Susan K. Cikovich, husband and wife EQT Production Company  Don Fordyce Betty Short Millan W. Cikovich, Jr. and Christine Milchelle Park, Individually and trustee of of the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich	Grantee, Lessee, etc  CNX Gas Company LLC  CNX Gas	Not less than 1/8	1628/641  Book/Page 1653/686 1637/103 1634/111 1634/111 1634/116 1634/60 1627/659 1627/659 1631/64 1631/66 1644/14 159/609

Page 2 of 3

				W. C.C.			
				Karen S. Gray Helene M. Muetzel	CNX Gas Company LLC	Not less than 1/8	1650/66
				James R. Hennen, Jr.	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1653/75 1655/28
	-			Cecil Hennen	CNX Gas Company LLC	Not less than 1/8	1826/36
				Roger L. Pratt Nelson James Hennen, Jr.	CNX Gas Company LLC	Not less than 1/8	1808/14
-				Nelson James Hennen, Jr.	CNX Gas Company LLC	Not less than 1/8	168/224
				Clark H. Hennen	CNX Gas Company LLC	Fee	1650/594
	-			Delores Ann Hennen Bryant	CNX Gas Company LLC	Fee	1640/73
-	-			Francis J. Waldron Hennen Ronald Fordyce	CNX Gas Company LLC	Fee	1638/79
				James Cox	CNX Gas Company LLC CNX Gas Company LLC	Fee	1640/74
				Joseph Muto	CNX Gas Company LLC	Fee Fee	1653/69
					orth our company age	ree	1640/73
	-			Robert Morgan and Vickie Morgan	Terra Firma Company	Fee	1285/42
				Terra Firma Company CNX Land LLC	CNX Land LLC	Merger	60/312
				CHALUITOLIC	CNX Gas Company LLC	Quitclaim	1827/13
act ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
18B	Parcel 1-9-20	188573000	CNX RCPC LLC	Kimeric and Company LLC			00-170-100
	1010	2003/3000	CIVA ROPO LLC	Antero Resources Corporation	Antero Resources Corporation CNX Gas Company LLC	Not less than 1/8	1776/60
_	Control of the Name				CIVA Gas Company EEC	Assignment	158/372
act ID	Tax Map &		Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
24	Parcel 1-9-19	188567000	Concel Mining Comment II C	2			
-	1313	200507000	Consol Mining Company LLC	Bounty Minerals, LLC	CNX Gas Company LLC	Not less than 1/8	1644/31
act ID	Tax Map &	Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book /Bac
	Parcel	#			Statice, cessee, etc	Royalty	Book/Pag
25B	1-9-9.6	188565000	CNX RCPC LLC	Marsha W. Byers and Stephen R. Byers	CNX Gas Company LLC	Not less than 1/8	1731/23
				David C. White a/k/a David Charles White and Regina S. White a/k/a Regina Sue White	CNX Gas Company LLC	Not less than 1/8	1614/13
				Candace L. McPheron and Douglas A. McPheron	CNX Gas Company LLC	Not less than 1/0	1991 1
				Howard L. Leckey	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1731/81 1731/81
				Lucy Mae Stickley	CNX Gas Company LLC	Not less than 1/8	1529/67
				Betty Ann Reed	CNX Gas Company LLC	Not less than 1/8	1612/55
				David Ray Stone Donald E. Stone	CNX Gas Company LLC	Not less than 1/8	1606/61
				Marian Rebecca Stone Garrett	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1605/62 1527/23
				Patricia Kathaleen White Hoekstra	CNX Gas Company LLC	Not less than 1/8	1527/23
_				Alvy Scott White	CNX Gas Company LLC	Not less than 1/8	1521/77
				Karen Imogene Meyer Robert S. Elliott	CNX Gas Company LLC	Not less than 1/8	1520/49
				Carol Sue Davis	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1529/67
				Edwin Ray White, II	CNX Gas Company LLC	Not less than 1/8	1517/24 1520/50
			The state of the s	Melinda Reid Hatton	CNX Gas Company LLC	Not less than 1/8	1754/37
				Dennis F. Hatton Jr. Amanda Hatton	CNX Gas Company LLC	Not less than 1/8	1754/26
				Jane E. McIntyre and Glenn C. McIntyre	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8	147/509
				Jan W. Ellison and Thomas A. Ellison	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1614/70
				Mary Ann Borkowski and Marc Borkowski	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1614/70
				Edith B. White	CNX Gas Company LLC	Not less than 1/8	1614/64
_				Robert L. Tate, Jr. Nancy Emerick	CNX Gas Company LLC	Not less than 1/8	1526/59
				Doris Jean White	CNX Gas Company LLC	Not less than 1/8	1614/14
				Anita Susan Talbott	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8	1605/325
				Richard H. Benson, II	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1521/773
				Three Rivers Royalty II, LLC	CNX Gas Company LLC	Not less than 1/8	1756/530
	-			Frederick C. Tate			
				Trederick C. Tate	CNX Gas Company LLC	Fee	1615/700
ct ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
6B	Parcel 1-9-7	257809000					
OD	1-5-/	25/809000	Kevin Hartley, et ux	Kevin Hartley and Linda Hartley	CNX Gas Company LLC	Not less than 1/8	1673/100
fract ID	Tax Map &	Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Povalty	Book /Boo
26C	Parcel	#			Grantee, Lessee, etc	Royalty	Book/Pag
	1-9-7	257809000	Kevin Hartley, et ux	Kevin Hartley and Linda Hartley	CNX Gas Company LLC	Not less than 1/8	1673/100
				Betty Carol Canan	CNX Gas Company LLC	Not less than 1/8	1644/290
				Neil M. Canan	CNX Gas Company LLC	Not less than 1/8	1644/285
ct ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
	Parcel	#			SEC. 100 (100 (100 (100 (100 (100 (100 (100	G-600/A-1903	DOON, AR
8	1-9-6.1	188563000	Paul David Beck, et al	Bounty Minerals, LLC	CNX Gas Company LLC	Not less than 1/8	1694/225
	1-9-6.2						
Tract ID							+
		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
7	Parcel 1-2-7	191527000	Mike J. Prendergast, et ux	Mike I Drandermet and Tholms M. De-	any a second		
		191927000	wine a. Frendergast, et ux	Mike J. Prendergast and Thelma M. Predergast	CNX Gas Company LLC	Not less than 1/8	1507/432
tID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
	Parcel	#	250000000000000000000000000000000000000	6343346367.1100346.20			DOUNTPage
1	1-2-8	195400000	Paul David Beck, et al	Bounty Minerals, LLC	CNX Gas Company LLC	Not less than 1/8	1694/225
tID	Tax Map &	Title Opinion QLS	Surface Owner	Granter Lesses et-	Land and the state of the state		
	Parcel	#	and owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5	1-2-5	205203000	Consol Mining Company LLC	Aliakbar Afshari	EQT Production Company	Not less than 1/8	1509/582
				Amir H. Mohammadi	EQT Production Company	Not less than 1/8	1509/589
				EQT Production Company	CNX Gas Company LLC	Assignment	153/774
				EQT Production Company	CNX Gas Company LLC	Assignment	1775/220
				Flossie Kimble; Denzle Kimble and Olive Irene Wright Kimble	Consolidation Coal Company	Fee	715/529
				Consolidation Coal Company	CNX Gas Company LLC	Deed	1300/1
+ IP	Tay Mar - 0	Tide Online Con					2300/1
LID	Parcel	Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5	1-2-5	205204000	Consol Mining Company LLC	Elkhorn Minerals, LLC	CNY Gas Company II C	No. 2 - 2	
			Company LCC	Shuman Inc.	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8	1683/591
-				Noumenon Corporation	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1736/212 1731/229
				O-Max Coal Company	CNX Gas Company LLC	Not less than 1/8	1731/234
				Classic Visibles Develop Visibles at Oliv			
				Flossie Kimble; Denzle Kimble and Olive Irene Wright Kimble Consolidation Coal Company	Consolidation Coal Company	Fee	715/529
					CNX Gas Company LLC	Deed	1300/1
t ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
100	Parcel	#	1,500,000		The state of the s	Royalty	Book/Page
100			Surface Owner  Consol Mining Company LLC	Grantor, Lessor, etc  Elkhorn Minerals, LLC	Grantee, Lessee, etc CNX Gas Company LLC	Royalty Not less than 1/8	Book/Page 1683/591
100	Parcel	#	1,500,000	Elkhorn Minerals, LLC	CNX Gas Company LLC	Not less than 1/8	
200	Parcel	#	1,500,000	Elkhorn Minerals, LLC  James L. Taylor and DeEtta K. Taylor	CNX Gas Company LLC  Consolidation Coal Company	Not less than 1/8	1683/591 710/104
ct ID	Parcel	#	1,500,000	Elkhorn Minerals, LLC	CNX Gas Company LLC	Not less than 1/8	1683/591

Pax 3 0 + 3

 From:
 Weigand, Sarah

 To:
 EP, SW OG-Submissions

 Cc:
 Zachwieja, Becky

Subject: CNX AOR for WDTN18 M1 Wells with Origination in West Virginia

**Date:** Monday, October 9, 2023 11:47:00 AM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png image005.png image006.jpg

20231009 WDTN18 M1 cover letter.pdf

WDTN18 M1 PA AORS.xlsx WDTN18 M1 AOR Well Maps.pdf

20231009 WDTN18 M1 PA monitoring and historic.pdf

#### Hello,

Please find CNX's AOR for our WDTN18 M1 wells that originate in West Virginia, but cross the southern state line into Pennsylvania. Per the guidance given earlier this year, we were advised that we should follow the AOR requirements and submit to this email. The attached cover letter includes locational information as well as additional documentation of the earlier guidance given, as well as a screenshot of the failed attempt to submit via Greenport. Typically AOR's are submitted individually, however since this isn't getting submitted via Greenport all wells are tabbed in the excel summaries and the PDF for maps includes all individual well maps.

Thank you,

#### Sarah Weigand

CNX | Manager, Permitting Services

CNX Center | 1000 Horizon Vue Drive | Canonsburg, PA 15317

(724) 485-3244 – office | (412) 628-1829 – mobile



#### cnx.com

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From: <u>Donohue, Thomas E</u>

To: Weigand, Sarah; Zachwieja, Becky

Cc: Campbell, Heather; Keller, Joel; Sabocheck, Scott
Subject: [EXTERNAL] CNX - WDTN18UHSM Well Permit Application

**Date:** Thursday, October 27, 2022 8:46:28 AM

Attachments: WV Well Plat - CNX.pdf

**CAUTION:** This email originated from outside CNX. Do not click links or open attachments unless you recognize the sender and believe the content is safe.

Sarah and Becky,

Thank you for your notification that this WV well will be crossing into PA. Please be aware of CNX's obligations to submit an Area of Review survey pursuant to PA Code Ch. 78a.52a for the portion of the well that will exist in Pennsylvania, prior to commencing drilling.

Additionally, if the portion of this well in Pennsylvania is drilled below the top of the Onondaga horizon, CNX will need to adhere to provisions of the Oil & Gas Conservation Law, in particular Section 6. This states in part that "....In areas in which no spacing order has been entered and no application is pending, no permit shall be issued for the drilling of a well unless the location of the well is at least three hundred thirty feet from the nearest outside boundary line of the lease on which it is located: Provided, however, That if the lease is included in a voluntary unit, a well may be located without regard to lease lines if it is not within three hundred thirty feet of the nearest unit line....". Please provide a statement whether or not the portion of the well in Pennsylvania will be drilled below the top of the Onondaga.

Links to PA Code Ch. 78a.52a and the Oil & Gas Conservation Law are below for your reference.

PA Code Ch. 78a.52a – Area of Review <a href="http://www.pacodeandbulletin.gov/Display/pacode?">http://www.pacodeandbulletin.gov/Display/pacode?</a> file=/secure/pacode/data/025/chapter78a/chap78atoc.html&d=#78a.52a.

Oil & Gas Conservation Law

http://files.dep.state.pa.us/OilGas/BOGM/BOGMPortalFiles/LawsRegsGuidelines/Act359uc.pdf

Please let me know if you have any questions.

Thanks

**Thomas E. Donohue, P.G.** | Environmental Program Manager Department of Environmental Protection | District Oil & Gas Operations 400 Waterfront Dr. | Pittsburgh, PA 15222 Phone: 412.442.4004 | Fax: 412.442.4328

www.depweb.state.pa.us



1000 Horizon Vue Drive Canonsburg, PA 15317-6506 724-485-4000

cnx.com

October 24, 2023

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

RE: WDTN18EHSM- \*MODIFICATION\* Horizontal Drilling Permit Application

To Whom It May Concern:

CNX Gas Company LLC (CNX) is requesting a modification to extend the WDTN18EHSM horizontal lateral well permit. The subject WDTN18 Marcellus lease well, is in Monongalia County.

CNX would like to use the expedited review process for the WDTN18EHSM Modification application and have enclosed a check for: \$15,150.00. CNX previously permitted the "WDTN18EHSM" in September 2023.

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

Sincerely,

Dudy Welgand





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

November 7, 2023

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

RE: WDTN18 A-E MOD Payments

Dear Cragin,

Please find the correct checks for the WDTN18 A, B, C, D, & E MOD permit applications enclosed.

Thank you,

Becky Zachwieja

A 2140043929 7500°C B 2140043930 7560°C C 2140043932 7500°C D 2140043932 7500°C E 2140043933 7500°C

Office of Oil and Gas

NOV 08 2023

WV Department of Environmental Protection