



west virginia department of environmental protection

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

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

Monday, 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 WDTN18AHSM
47-061-01944-00-00

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.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: WDTN18AHSM
Farm Name: CONSOL MINING COMPANY LLC
U.S. WELL NUMBER: 47-061-01944-00-00
Horizontal 6A New Drill
Date Modification Issued: 11/13/2023

Promoting a healthy environment.

11/17/2023

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 MONONGA BATTELL WADESTOWN
Operator ID County District Quadrangle

2) Operator's Well Number: WDTN18AHSM Well Pad Name: WDTN18

3) Farm Name/Surface Owner: CONSOL MINING CO. LLC Public Road Access: CAMP RUN ROAD CR 4

4) Elevation, current ground: 1215' Elevation, proposed post-construction: 1199'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No YES

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target formation is Marcellus Shale @ 7815' - 7868' TVD, 53' thick, expected formation pressure ~4600 psi

8) Proposed Total Vertical Depth: 7848' TVD at TD, depending on formation dip

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

10) Proposed Total Measured Depth: 29,847' MD at TD

11) Proposed Horizontal Leg Length: 20,721'

12) Approximate Fresh Water Strata Depths: 103', 111', 190', 243', 259', 325', 399'

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

14) Approximate Saltwater Depths: 2415', 3045', 3210'

15) Approximate Coal Seam Depths: 448'-449', 537'-538', 612'-613', 614'-617', 873'-878', 960'-974'

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

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

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

~~NOV - 1 2023~~
WV Department of
Environmental Protection

Digitally signed by Gayne Knitowski, Inspector
Date: 2023.10.25 14:17:43 -04'00'

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
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	23	29,847	29,818 ✓	2,820 TOC @ 1,550'
Tubing	2.375	New	J-55	4.7	Above assumes RF = 29'	TBD	N/A
Liners	N/A						

Digitally signed by
 Gayne Knitowski,
 Inspector
 Date: 2023.10.25
 14:18:16 -04'00'

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
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:				

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

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

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

*Note: Attach additional sheets as needed.

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CNX

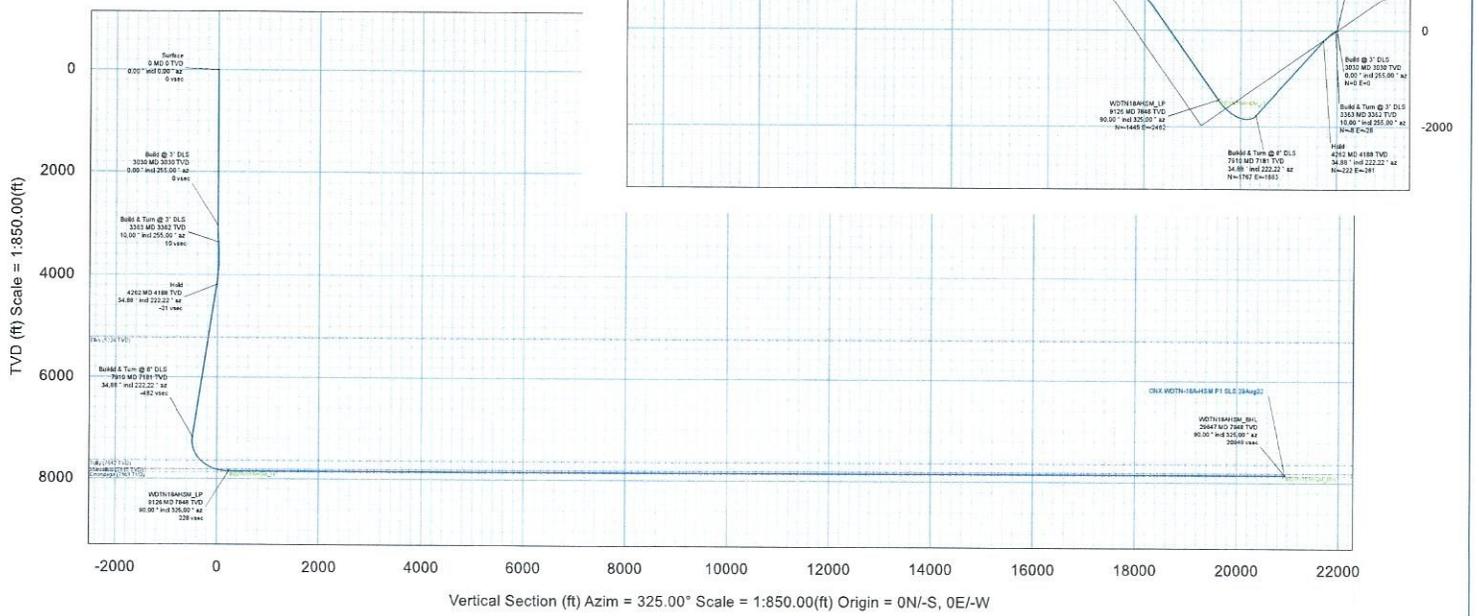
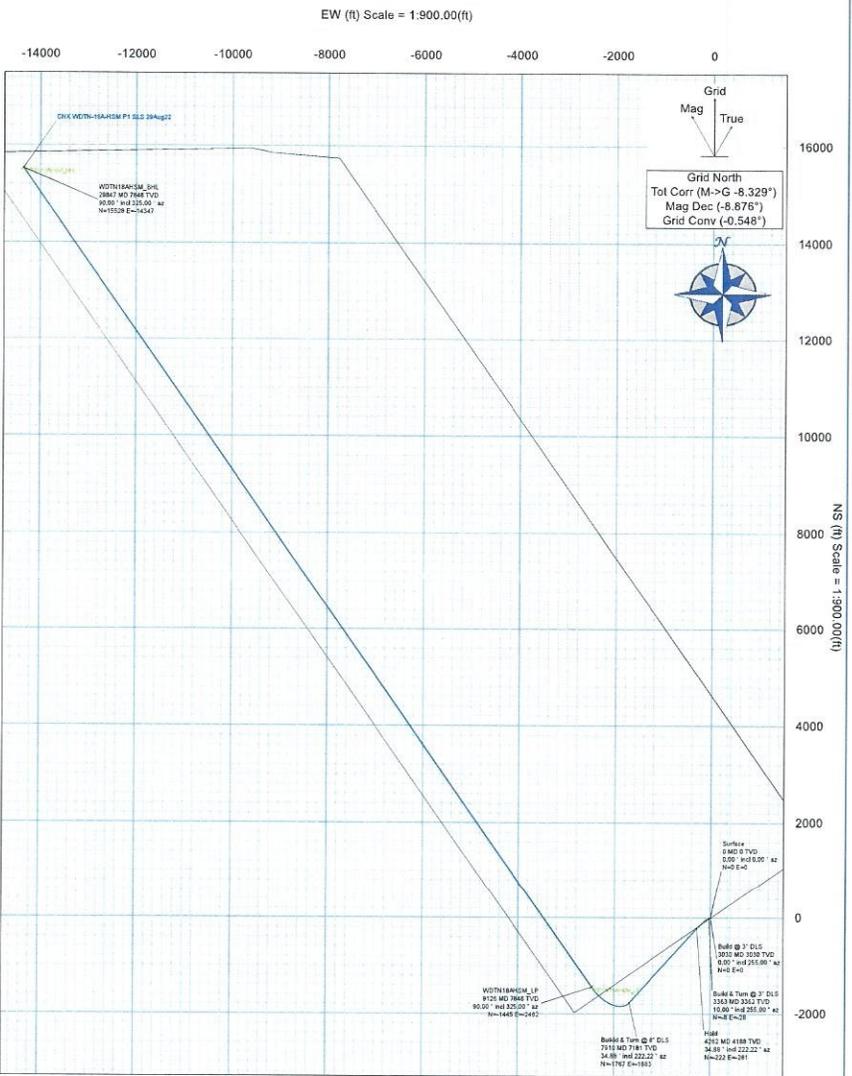
WV Department of Environmental Protection

Borehole: Original Borehole	Well: WDTN18AHSM	Field: WV Monongalia County (NAD 27)	Structure: WV Department of Environmental Protection
Gravity & Magnetic Parameters: Model: HDGM 2022 Dip: 66.392° Date: 29-Aug-2022 MagDec: -8.87° FS: 51805.456mT Gravity FS: 998.345mgm (8.80665 Based)		Surface Location: NAD27 West Virginia State Plane, Northern Zone, US Feet Lat: N 39 41 27.99 Northing: 434982.69ftUS Grid Conv: -0.6476° Lon: W 80 21 30.73 Easting: 1756400.9ftUS Scale Fact: 0.99994139	
Miscellaneous: Slot: WDTN18AHSM (W51) Plan: CNX WDTN-18A-HSM P1 SLS 29Aug22		TVD Ref: KB(1229ft above MSL)	

Surface Location										
Northing: 434982.691		Easting: 1756400.999		Latitude: N 39 41 27.99		Longitude: W 80 21 30.73		V Elev. Assum: 328.00		
Target Description	Shape	Dimension	Latitude	Longitude	Northing	Easting	TVD	VCer	RI/VCer	EI/VCer
WDTN18AHSM_LP	Point	N/A	N 39 41 27.99	W 80 21 30.73	434982.69	1756400.99	1229.00	0.00	0.00	0.00
WDTN18AHSM_BHL	Point	N/A	N 39 44 0.05	W 80 24 36.25	40509.91	1744054.78	7688.00	20948.02	15528.16	-14345.99
WDTN18AHSM_LP	Point	N/A	N 39 41 13.47	W 80 22 2.00	43337.49	1759329.02	7948.00	228.23	-1445.32	-2462.03

PART	Seq	Survey Tool	Vendor/Tool	Hole Size (in)	CAVTS Size (in)	Expected Hole Sid (ft)	MD From (ft)	MD To (ft)	Survey Frequency (Hz)	EOU Size (ft)	EOU Size (ft)	Comments/Contingency
1	1	AD200A_GYRO/ANG-Depth Only		17.5	13.375	0	29	1/100		0.729	0.729	
1	2	AD200A_GYRO/ANG		17.5	13.375	29	1120	1/100		5.302	5.879	
1	3	A01MB_MWD		12.25	8.625	1120	2970	1/100		10.879	10.845	
1	4	A01MB_MWD		8.75	5.5	2930	7500	1/100		65.087	26.271	
1	5	B000MB_MWD-HSRF		8.5	5.5	7500	29446.94	1/100		697.583	81.136	

Critical Point	MD	RICL	AZIM	TVD	VSEC	RI/VCer	EI/VCer	DLS
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Build @ 3' DLS	3030.00	0.00	265.00	3330.00	0.00	8.00	0.00	0.00
Build & Turn @ 3' DLS	3361.33	10.00	255.00	3361.64	9.82	-7.51	-28.03	3.00
Hold	4261.86	34.88	222.22	4187.92	-20.78	-221.94	-280.73	5.00
Hold	5924.86	34.88	222.22	5224.00	-190.52	-256.94	-364.15	0.00
Build & Turn @ 8' DLS	7910.32	34.88	222.22	7180.93	-482.22	-1767.70	-1582.25	0.00
Hold	8509.97	51.18	261.83	7842.00	-314.69	-1859.72	-2035.89	8.00
WDTN18AHSM_LP	8885.94	74.21	313.91	7815.00	-7.50	-1622.56	-2308.44	8.00
WDTN18AHSM_LP	9124.14	80.00	325.00	7848.00	229.29	-1441.32	-2462.03	8.00
WDTN18AHSM_BHL	20948.84	80.00	325.00	7848.00	20948.02	15528.16	-14345.99	0.00
DroneData	N/A			7888.00				



11/17/2023



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 3rd Party Marcellus lateral wells that lie within 500' of the proposed WDTN18 M1 wells in West Virginia.



Figure 1. Zero 3rd 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 Depth (ft)
N/A					

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					

WDTN18 M1 Pad Risk Assessment Review 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.

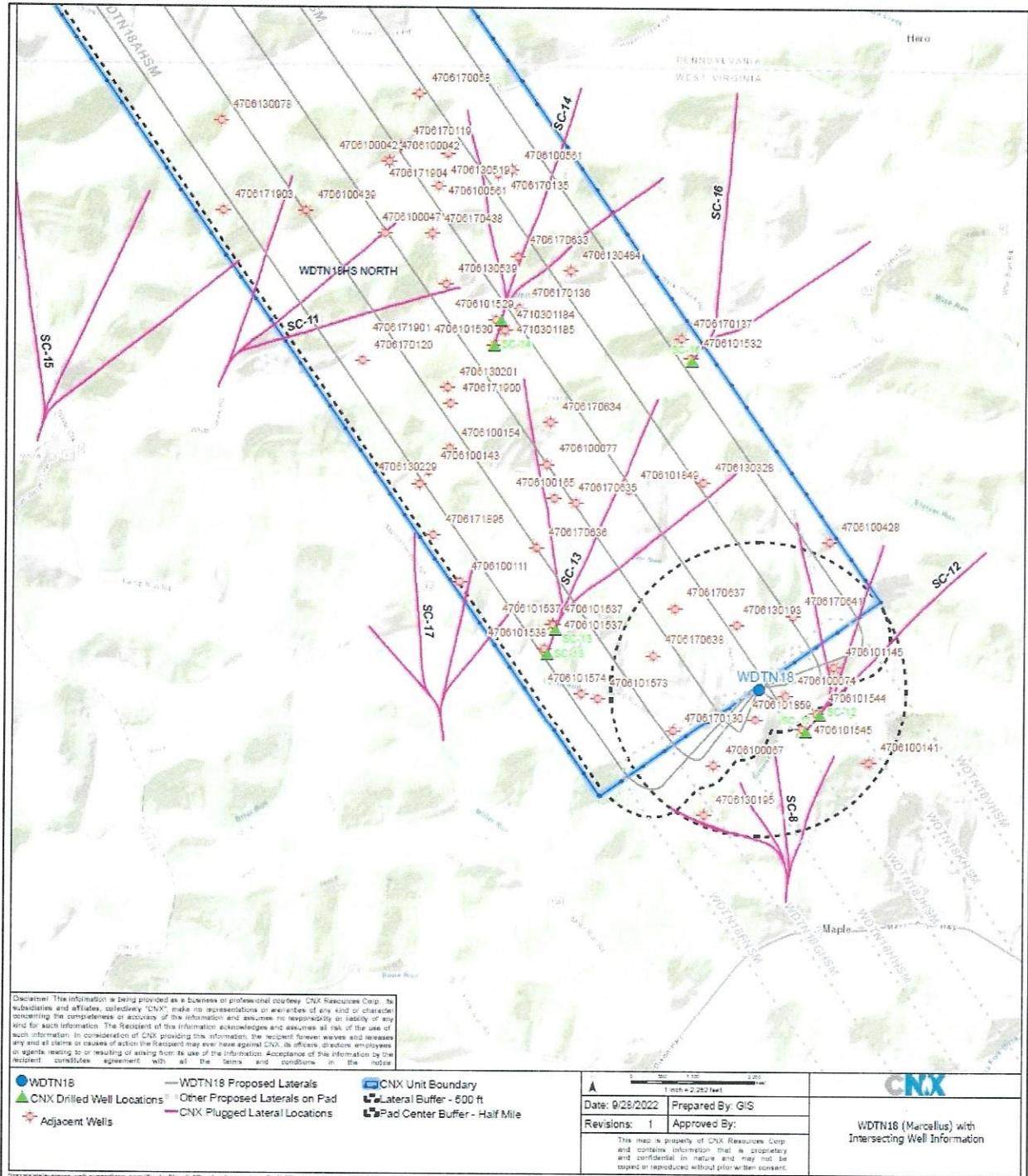
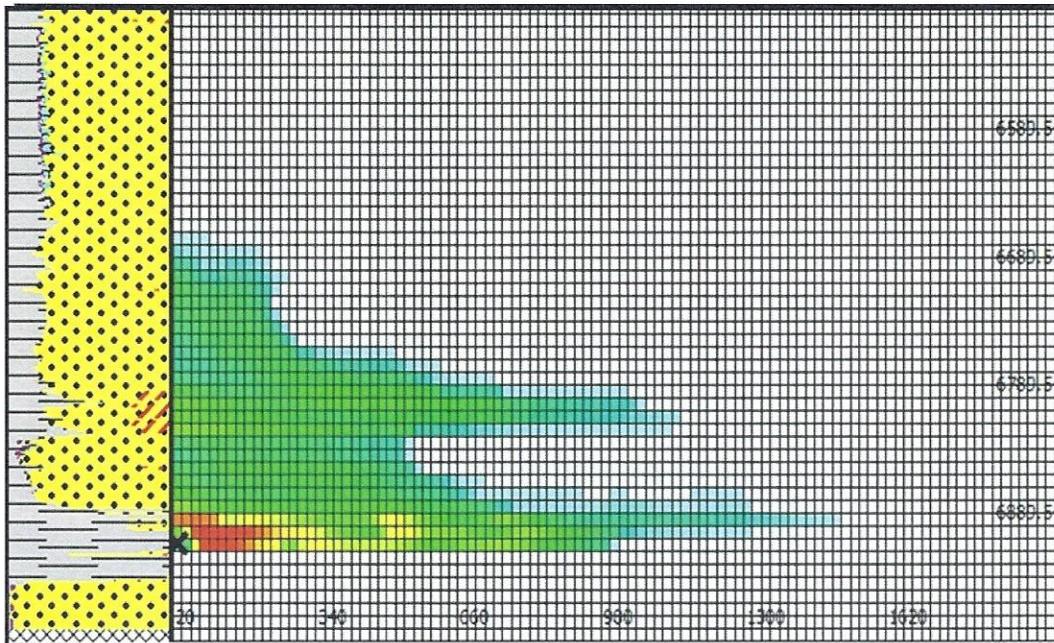


Figure 5. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Hamilton and Tully are much thinner than Wadestown. Frac modeling predicts frac height of approximately 300’.

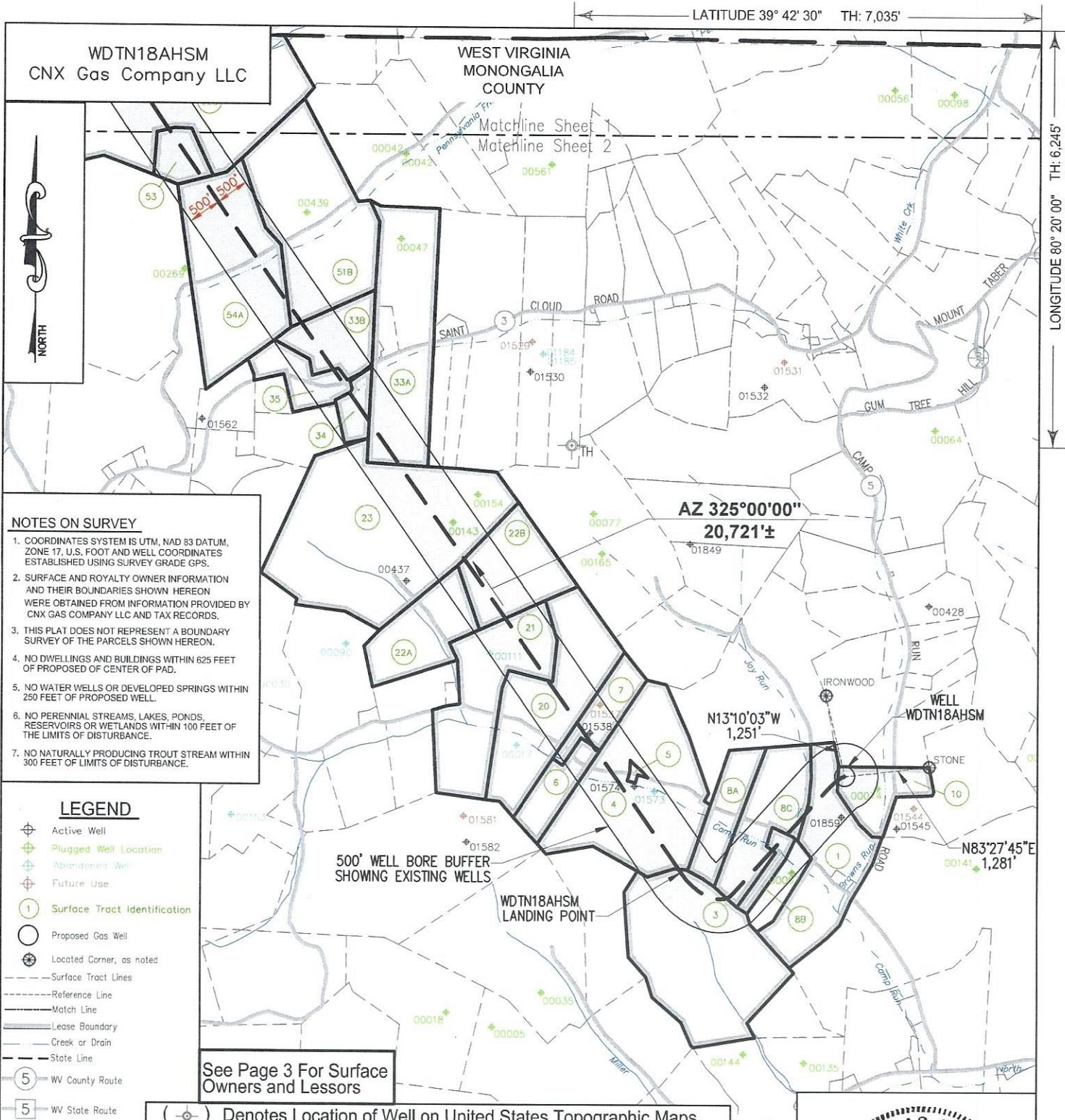


Frac Simulation of the Oxford area, Doddridge County, WV. Model of 300 stage spacing yields frac height of 260 feet. Tully Limestone (~25'), Tully-Hamilton (~55'), Marcellus-Alexander (1500')

7

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.

API Number	Well Name	Well Number	Current Operator	Fluid Type	Profile Type	Completion Formation	Current Status	Total Depth	Latitude - WGS84	Longitude - WGS84
47051015320000	TERRA FIRMA COMPANY		CNX	Oil & Gas		PITTSBURGH COAL	INACTIVE	912	39.707165	-80.352922
47051001850000	HENNEN, ALEX - HEIRS 1	1	OPER IN MIN.OWNER FLD.NO CODE ASSIGN(ORPHAN WELL PROJ.)	DRY HOLE	V	SEWICKLEY COAL	P & A	920	39.700238	-80.371501
47051015380000	CONSOLIDATION COAL CO.	SC13A	CNX	OIL & GAS	V	PITTSBURGH COAL	INACTIVE	1001	39.652845	-80.371966
47051015450000	CONSOLIDATION COAL COMPAI	SC12A	CNX	OIL & GAS	V	PITTSBURGH COAL	ACTIVE	1210	39.689061	-80.355512
47051015440000	CONSOLIDATION COAL COMPAI	SC12	CNX	OIL & GAS	V	UNIDENTIFIED COAL	INACTIVE	1210	39.689912	-80.354637
47051015740000	TERRA FIRMA COMPANY	SC 8A	DIVERSIFIED ENERGY	OIL & GAS	V	PITTSBURGH COAL	INACTIVE	1250	39.650665	-80.368674
47051015370000	CONSOLIDATION COAL CO.	SC13	CNX	OIL & GAS	H	PITTSBURGH COAL	INACTIVE	1270	39.69402	-80.371478
47051015370100	CONSOLIDATION COAL CO.	SC13	CNX	CEM	H	<Null>	DRILLED	1270	39.69402	-80.371478
47051015370200	CONSOLIDATION COAL CO.	SC13	CNX	CEM	H	<Null>	COMPLETED	1270	39.69402	-80.371478
47051015280000	MOORE, EDGAR & SETH	SC14	CNX	OIL & GAS	V	PITTSBURGH COAL	INACTIVE	1304	39.705911	-80.376388
47051015300000	MOORE, EDGAR & SETH	SC14A	CNX	OIL & GAS	V	PITTSBURGH COAL	INACTIVE	1304	39.70765	-80.376445
47051001430000	E C CLOVIS HEIRS	1	OPER IN MIN.OWNER FLD.NO CODE ASSIGN(ORPHAN WELL PROJ.)	GAS	V	PITTSBURGH COAL	F & A	1494	39.701449	-80.379491
47051015730000	TERRA FIRMA COMPANY	SC 8	DIVERSIFIED ENERGY	GAS	V	UNIDENTIFIED COAL	F & A	1520	39.650478	-80.368627
47051001540000	CLOVIS, E. C. - HEIRS 2	2	OPER IN MIN.OWNER FLD.NO CODE ASSIGN(ORPHAN WELL PROJ.)	DRY HOLE	V	PITTSBURGH COAL	F & A	1630	39.702609	-80.378177
47051015300000	EUI WHITE		GIBSON & GILES	UNKNOWN	U			2650	39.717309	-80.381597
47051000670000	M.L. SHRIVER ESTATE 1-2610		(N/A)	GAS	V	BIG INJUN (PRICESEQ)	F & A	3165	39.697224	-80.351067
47051000420000	SIX, D.A. 1	1	OPER IN MIN.OWNER FLD.NO CODE ASSIGN(ORPHAN WELL PROJ.)	UNKNOWN	V	PITTSBURGH COAL	P & A	3165	39.716554	-80.352306
47051000420001	SIX, D.A. 1	1	OPER IN MIN.OWNER FLD.NO CODE ASSIGN(ORPHAN WELL PROJ.)	UNKNOWN	V	PITTSBURGH COAL	P & A	3165	39.716554	-80.352306
47051005180000	S E KIMBLE		NELSON M RICHARDS	GAS	U	FIFTY-FOOT	INACTIVE	3260	39.715424	-80.379117
47051000170000	CLOVIS, EVA H. 1		PILLAR ENERGY LLC	UNKNOWN	V		F & A	3362	39.652305	-80.375626
47051000780000	MRS S R COX		WALKER/CONKLIN/MINTR	WATER	U	1ST SALT SAND	INACTIVE	3363	39.71647	-80.393011
47051000470000	WHITE, JAMES L. 2		(N/A)	UNKNOWN	V		F & A	3371	39.713071	-80.382494
47051000740000	TENNANT, LEWLEY 5268		(N/A)	GAS	V	THIRTY-FOOT	F & A	3365	39.69707	-80.388562
47051004640000	J H STILES		AM SNIDER	GAS	U	BAYARD	INACTIVE	3448	39.711264	-80.37056
47051001110000	C E HENNEN	1	PITTSBURGH & WV GAS	GAS	V	BAYARD	F & A	3453	39.693078	-80.377428
47051003740000	LUCINDA SIX		CLOVIS ROY W	GAS	U	BAYARD	INACTIVE	3465	39.705579	-80.358501
47051011450000	HAINES, E	2505	A V COMPANY	GAS	V	FIFTH	F & A	3471	39.692173	-80.353559
47051002650000	GILMORE, ELIZABETH, ETUX 1	1	BIG SAND DRILLING/BIG SANDY GAS	GAS	V	BAYARD	F & A	3501	39.711683	-80.354039
4705101707200000	JAMES L WHITE		(N/A)	UNKNOWN	U		INACTIVE	3520	39.708819	-80.353831
47051002230000	E C CLOVIS		PITTSBURGH & WV GAS	GAS	U	BIG INJUN (PRICESEQ)	INACTIVE	3576	39.700374	-80.380055
47051005830000	W FRANK TAYLOR		E GUY & A G PATTERSON	GAS	U	FIFTH	INACTIVE	3650	39.710559	-80.373553
470510001410000	SHRIVER, CHARLES F. 1-3832		A V COMPANY	WATER	V	BAYARD	F & A	3740	39.697472	-80.351244
47051018560000	CONSOL MINING COMPANY LLC WDTN18M1H5M		CNX	UNKNOWN	H	MARCELLUS SHALE	EXPIRED PERMIT	<Null>	39.689504	-80.358461
47051004280000	SHRIVER 5114		PILLAR ENERGY LLC	GAS	V		ACTIVE	39.696254	-80.358393	
47051004370000	CLOVIS 5390		PILLAR ENERGY LLC	GAS	V		ACTIVE	39.696981	-80.361931	
47051001930000		1	PITTSBURGH & WV GAS	GAS	U	BAYARD	INACTIVE	39.694108	-80.359785	
47051001930000	MAHLON TENNANT HEIRS		MANUFACTURERS LIGHT & HEAT CO	GAS	U	BAYARD	INACTIVE	39.684776	-80.361556	
47051002010000	CHAS WHITE		PITTSBURGH & WV GAS	UNKNOWN	U		INACTIVE	39.705564	-80.373374	
47051002220000	E C CLOVIS	2	PITTSBURGH & WV GAS	GAS	U	BAYARD	INACTIVE	39.703049	-80.358557	
47051003280000	LAURA B TENNANT	1	MANUFACTURERS LIGHT & HEAT CO	GAS	U	BAYARD	INACTIVE	39.701069	-80.362024	
47051004750000	FRED HENNEN	2	CARNEGIE NATURAL GAS CO	GAS	U	GORDON STRAY	INACTIVE	39.719919	-80.373313	
47051004750001	FRED HENNEN	2	CARNEGIE NATURAL GAS CO	GAS	U	GORDON STRAY	INACTIVE	39.719919	-80.373313	
47051005850000	R V HENNEN/TAYLOR		BP	UNKNOWN	U	FIFTH	INACTIVE	39.719882	-80.380429	
47051013050000		1	OPER IN MIN.OWNER FLD.NO CODE ASSIGN(ORPHAN WELL PROJ.)	UNKNOWN	U	FIFTH	INACTIVE	39.698839	-80.363724	
47051013050000	F H HENNEN		CARNEGIE NATURAL GAS CO	UNKNOWN	U		INACTIVE	39.719004	-80.375351	
47051013800000	JOHN G WHITE		CARNEGIE NATURAL GAS CO	UNKNOWN	U		INACTIVE	39.705475	-80.373671	
47051013700000	SIMON L WHITE		PHILADELPHIA COMPANY, THE	UNKNOWN	U		INACTIVE	39.706124	-80.363544	
47051015700000	HENRY W HAINES		(N/A)	UNKNOWN	U		INACTIVE	39.693478	-80.348335	
47051016100000	ELIJAH C CLOVIS		MANUFACTURERS LIGHT & HEAT CO	UNKNOWN	U		INACTIVE	39.700564	-80.361932	
47051004830000	S E KIMBLE		(N/A)	UNKNOWN	U		INACTIVE	39.71307	-80.37849	
47051006330000	J G WHITE		BP	UNKNOWN	U		INACTIVE	39.712055	-80.374044	
47051005440000	L A STILES		(N/A)	UNKNOWN	U		INACTIVE	39.703915	-80.371784	
47051005350000	L HENNEN		CLOVIS	UNKNOWN	U		INACTIVE	39.695996	-80.370104	
47051005360000	L HENNEN		(N/A)	UNKNOWN	U		INACTIVE	39.695119	-80.372544	
47051008370000	MAHLON TENNANT		(N/A)	UNKNOWN	U		INACTIVE	39.694917	-80.363723	
47051008380000	ROBERT CLOVIS		PHILADELPHIA OIL CO	UNKNOWN	U		INACTIVE	39.692594	-80.360537	
47051008410000	S S WHITE		PHILADELPHIA OIL CO	UNKNOWN	U		INACTIVE	39.694820	-80.356210	
47051018950000	ALEX HENNEN		(N/A)	UNKNOWN	U		INACTIVE	39.6984	-80.379115	
47051018950000	ALEX HENNEN		CLOVIS	UNKNOWN	U		INACTIVE	39.69611	-80.380804	
47051018950000	ALEX HENNEN		CLOVIS	UNKNOWN	U		INACTIVE	39.704786	-80.378177	
47051019000000	CHARLES WHITE		BP	UNKNOWN	U		INACTIVE	39.707659	-80.352484	
47051019010000	R PETHLE		(N/A)	UNKNOWN	U		INACTIVE	39.714066	-80.392516	
47051019030000	ELIZABETH GILMORE		(N/A)	UNKNOWN	U		INACTIVE	39.719889	-80.378552	
47051019040000	S E KIMBLE		(N/A)	UNKNOWN	U		INACTIVE	39.701883	-80.371961	
47051000770000	ALEX HENNEN		PITTSBURGH & WV GAS	DRY HOLE	V		F & A	39.714087	-80.387561	
47051004390000	OLA SIX		EQUITRANS MIDSTREAM	UNKNOWN	V		F & A	39.7162	-80.374489	
47051006610000	HENNEN	37	EQT	GAS	V		F & A	39.7162	-80.374489	
47051005610001	HENNEN	37	EQT	GAS	V		F & A	39.7162	-80.374489	
47051016100000	INDISO 3		INDISO ENERGY	UNKNOWN	V		F & A	39.723005	-80.401636	
47051016400000	SANTEE HEIRS 4		J A & M OIL & GAS COMPANY	UNKNOWN	V	MAXTON	F & A	39.706413	-80.374759	
47103011850000	SANTEE HEIRS 8		J A & M OIL & GAS COMPANY	GAS	V	MAXTON	F & A	39.708413	-80.374759	



NOTES ON SURVEY

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

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

See Page 3 For Surface Owners and Lessors

() Denotes Location of Well on United States Topographic Maps

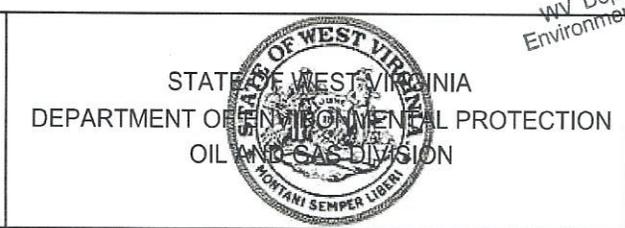


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection, Office of Oil and Gas.

Thomas C. Smit
L. L. S. 687



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



DATE: OCTOBER 24 20 23
OPERATORS WELL NO: _____
API WELL NO: 47 - 061 - 01944
STATE COUNTY PERMIT

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

LOCATION ELEVATION: 1199' WATERSHED: Dunkard Creek QUADRANGLE: Wadestown
DISTRICT: Battelle COUNTY: Monongalia

SURFACE OWNER: Consol Mining Company LLC ACREAGE: 46.75 ±
ROYALTY OWNER: Bounty Minerals, LLC LEASE NO: 189033000 ACREAGE: 59.02 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 7,848'

WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Horizon Vue Drive ADDRESS: 111 Avondale Road
Canonsburg, PA 15317 Fairmont, WV 26554

LATITUDE 39° 45' 00" BH: 9,805'

LONGITUDE 80° 22' 30" TH: 6,035'

WDTN18AHSM
CNX Gas Company LLC

WDTN18AHSM
BOTTOM HOLE



NOTES ON SURVEY

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6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

LEGEND

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

See Page 3 For Surface Owners and Lessors

() Denotes Location of Well on United States Topographic Maps

AZ 325°00'00"
20,721±

PENNSYLVANIA
GREENE COUNTY

WEST VIRGINIA
MONONGALIA COUNTY

Matchline Sheet 1
Matchline Sheet 2

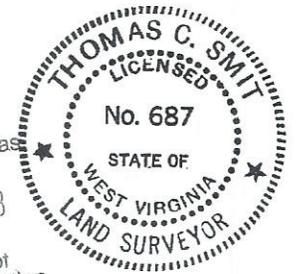


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smith
L. L. S. 687

NOV - 1 2023

WV Department of Environmental Protection



SEAL

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



DATE: OCTOBER 24 20 23
OPERATORS WELL NO:
API WELL NO
47 - 061 - 01944
STATE COUNTY PERMIT

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

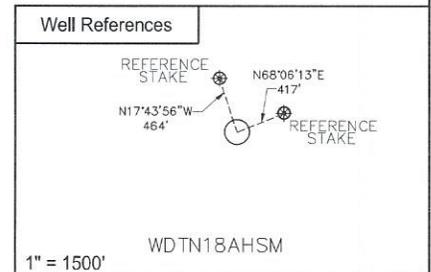
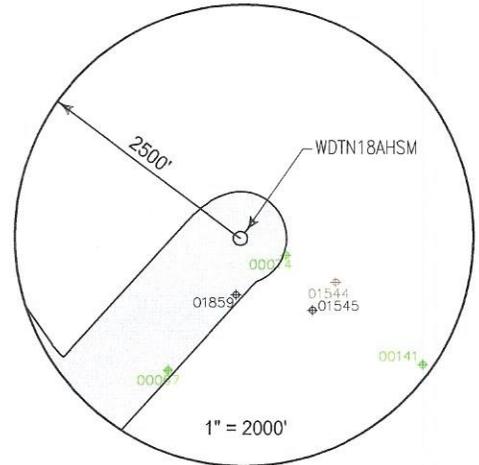
LOCATION ELEVATION: 1199' WATERSHED: Dunkard Creek QUADRANGLE: Wadestown
DISTRICT: Battelle COUNTY: Monongalia

SURFACE OWNER: Consol Mining Company LLC ACREAGE: 46.75 ±
ROYALTY OWNER: Bounty Minerals, LLC LEASE NO: 189033000 ACREAGE: 53.02 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 7,848'

WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Horizon Vue Drive ADDRESS: 111 Avondale Road
Canonsburg, PA 15317 Fairmont, WV 26554

TRACT ID	SURFACE OWNER	LESSOR	PIN
1	Consol Mining Company LLC	Bounty Minerals, LLC	1-9-37
		Bounty Minerals III Acquisitions, LLC	1-12-7
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
TRACT ID	SURFACE OWNER	LESSOR	PIN
3	Consol Mining Company LLC	Norman Core	1-12-4
		Deep Rock Mineral Group, Inc.	
		Northeast Natural Energy LLC	
		EQT Production Company	
		Kimeric and Company, LLC	
		Antero Resources Corporation	
		Shuman, Inc.	
	Pamela J. Gaston		
TRACT ID	SURFACE OWNER	LESSOR	PIN
4	Consol Mining Company LLC	Fred C. Park, et al	1-9-35
		Consolidation Coal Company	
		CONSOL Mining Company LLC	
		CNX Resource Holdings LLC	
		Joseph S. Delaney	
		Michael S. Delaney	
		Earlene Owens and Robert Owens, w/h	
		Nancy Paulovicks and Jay E. Paulovicks, w/h	
		Martha A. Pryor, a/k/a Martha Ann Pryor by Robert Owens as Agent	
		W. James Shannon	
		Leon E. Delaney	
		Jeff T. Delaney	
		Mary Ellen Bell	
		Lee E. Delaney	
Martha Ann Price			
George William Cummins, Jr.			
David Allen Jolliffe and Donna Sue A. Jolliffe, h/w			
Lisa Ellen May and Gary A. May, w/h			



SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N: 4393679.83	
E: 555018.38	
NAD 83, WV NORTH	
N: 435020.064	
E: 1726964.036	
LAT/LON DATUM NAD 83	
LAT: 39°41'28.278"	
LON: 80°21'30.010"	
LANDING POINT	
UTM 17 NAD 83	
N: 4393226.99	
E: 554275.68	
NAD 83, WV NORTH	
N: 433574.873	
E: 1724502.104	
LAT/LON DATUM NAD 83	
LAT: 39°41'13.762"	
LON: 80°22'01.326"	
BOTTOM HOLE LOCATION (BHL)	
UTM 17 NAD 83	
N: 4398337.48	
E: 550568.78	
NAD 83, WV NORTH	
N: 450547.607	
E: 1712618.563	
LAT/LON DATUM NAD 83	
LAT: 39°44'00.341"	
LON: 80°24'35.534"	



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

Thomas C. Smit
L. L. S. 687



SEAL

FILE NO: _____
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DISTRICT: Battelle COUNTY: Monongalia

SURFACE OWNER: Consol Mining Company LLC ACREAGE: 46.75 ±
ROYALTY OWNER: Bounty Minerals, LLC LEASE NO: 189033000 ACREAGE: 59.02 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
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ADDRESS: 1000 Horizon Vue Drive ADDRESS: 111 Avondale Road
Canonsburg, PA 15317 Fairmont, WV 26554

11/17/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
5	Consol Mining Company LLC	Fred C. Park, et al	1-9-34 1-9-34.1
		Consolidation Coal Company	
		CONSOL Mining Company LLC	
		CNX Resource Holdings LLC	
6	Consol Mining Company LLC	Mike Ross, Inc.	1-9-29
		Waco Oil & Gas Co., Inc.	
7	Consol Mining Company LLC	Ronnie Lee Jones and Elizabeth Ann Jones, h/w	1-9-30
		Consolidation Coal Company	
		CONSOL Mining Company LLC	
		CNX Resource Holdings LLC	
8A	Consol Mining Company LLC	Martha Sue Kerr	1-9-36
		Larry A. Kerr	
		Antero Resources Corporation	
		Bruce Scott Carpenter	
		Patti Carpenter	
		Bruce P. Carpenter	
		Jeannine Osmanski and Robert E. Osmanski, w/h	
8B	Consol Mining Company LLC	Martha Sue Kerr	1-12-5
		Larry A. Kerr	
		Antero Resources Corporation	
		Bruce Scott Carpenter	
		Patti Carpenter	
		Bruce P. Carpenter	
		Jeannine Osmanski and Robert E. Osmanski, w/h	
8C	Consol Mining Company LLC	Martha Sue Kerr	1-9-36
		Larry A. Kerr	
		Antero Resources Corporation	
		Bruce Scott Carpenter	
		Patti Carpenter	
		Bruce P. Carpenter	
		Jeannine Osmanski and Robert E. Osmanski, w/h	
		Rodney A Clovis	
		Christopher Lance Clovis	
		Timothy Steele Clovis a/k/a Timothy S. Clovis	
		Clinton Alan Clovis a/k/a Clint Clovis	
		Robin L. Clovis Wade a/k/a Robin Lynn Clovis	
		James Douglas Campbell	
		Robert York Uren	
		Pennie Mae Gurley	
		Tiffany May Coker and Micahel D. Coker, w/h	
		Joseph Allen Campbell and Kathryn Ernst Campbell, h/w	
		Dorothy Ione Harcum	
		David Hilirion Campbell and Sheryl L. Campbell, h/w	
Regina Kay Orfanos and Anthony Orfanos, w/h			
Michelle Law			
Tina Law			
Robin Lynn Campbell			
Susan Cale Teter and Gary Teter, w/h			
John Edward Cale			
Karen L. Haught and Jimmie A. Haught, w/h			

11/17/2023

	Edwin R. White a/k/a Eddie White and Patricia White, h/w	
	Cherrie Anderson Yost a/k/a Cherrie Anderson Yost	
	Douglas Yost	
	David Yost	
	Nancy Bohannon	
	Mary Jo Morris	
	Janet Eglund	
	David Allen Jolliffe and Donna Sue A. Jolliffe, h/w	
	Lisa Ellen May and Gary A. May, w/h	
	William James Shannon	
	Nancy Paulovicks	
	Robert Owens and Earlene Owens, h/w	
	Mary Ellen Bell	
	Martha Ann Prince	
	Charles R. Delaney	
	Shawn Delaney	
	Larry Delaney	
	George William Cummins, Jr.	
	Lee E. Delaney and Shannon Delaney, h/w	
	Susan D. Delaney	
	Joseph S. Delaney	
	Michael S. Delaney and Susan Delaney, h/w	
	Nola Chisler and Charles D. Chisler, w/h	
	Jay Park and Carolyn S. Park, h/w	
	Donna J. Glaspell a/k/a Donna J. Snyder	
	Debra Lynn Lundgren	
	Cheryl Darlene Fordyce	
	Robert Henderson Fordyce a/k/a Robert H. Fordyce and Patricia A. Fordyce, h/w	
	Martha Sue Cvechko and John M. Cvechko, w/h	
	Brenda Lou Painter f/k/a Brenda Lou Henderson	
	Cheryl Lynn Stout	
	James Michael Cale and Laura W. Cale, h/w	
	John Smith	
	Robert L. Smith a/k/a Bob Smith and Carol Smith, h/w	
	William M. Smith a/k/a Bill Smith and Ruth C. Smith, h/w	
	Greg Rowland and Brady Rowland, h/w	
	Carol Neal	
	William F. Henderson a/k/a Willaim F. Hendsen a/k/a Bill Henderson	
	Steve Edward Henderson	
	Matthew David Stiles	
	Mark Douglas Stiles, a/k/a Mark Douglas Stiles	
	Marcia Stiles Batson	
	James Aspinall and Marion Aspinall, h/w	
	Robert S. Elliott	
	Robert Scott Davis and Jennifer Davis, h/w	
	Olen Ray Harker	
	Jo Ann Henderson	
	John Gaertner	
	Taylor Nicole Best	
	Kevin Russell Beasley	
	Magnus Audbjorn Sonofthor	
	Shannon Renee Sutton	
	Jessica Bergevine	
	Drema L. Howard	
	Arnold Lebron Uren	
	Victor A. White	
	CNX Resource Holding LLC	

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WV Department of
Environmental Protection

11/17/2023



API WELL NO
47 - 061 - 01944
STATE COUNTY PERMIT

TRACT ID	SURFACE OWNER	LESSOR	PIN
10	Consol Mining Company LLC	Eastern Associated Coal Corporation	1-9-37 1-9-38
20	Consol Mining Company LLC	Donald C. Clovis and Donna P. Clovis, h/w	1-9-28 1-9-28.2
21	Consol Mining Company LLC	Donald C. Clovis and Donna P. Clovis, h/w	1-9-27 1-9-28.2
22A	CNX RCPC LLC	Joseph Muto Milan W. Cikovich, Jr. and Susan K. Cikovich Steven E. Hennen Gregory S. Clark Carl J. Woods Mark A. Clark Beverly A. Tonge Wanda Lee Shaffer Denzil L. Hennen and Bonnie L. Hennen, h/w Eugene D. Hennen Nancy K. Haddix Carolyn S. Moore and James E. Moore, w/h Charlie Fudge Mary Sargent Hennen Belinda T. Shriver and Chalres C. Shriver, w/h Donna K. Wickham Denise Mitchell Marjorie Woods White James R. Hennen, Jr. Judy Kay Marshall and Graham Marshall, h/w Mary Virginia Davis EQT Production Company Donna R. Hennen WOG Leaseing, LLC Betty Short Don Fordyce Mildred Louise Walton Linda S. Sansone and Charles F. Sansone, w/h Karen S. Gray Helene M. Muetzel Cecil Hennen Roger L. Pratt Milan W. Cikovich, Jr., individually and as Trustee of the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich, and Christine Michelle Park, individually and as Trsutee of the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich Melissa Ann Hennen Limbaugh Three Rivers Royalty II, LLC Connie Jean Thompson Hennen Richard P. Hennen Bonnie Lee Hennen Winnen David L. Liming and Nancy A. Liming, h/w Herbert Lee Haines and Linda R. Haines, h/w Helen Pecora Dorothy Chohrach Patricia A. Cooney Nancy Irwin Singer James C. Irwin Jeannette Irwin Prout St. John's Evangelical Protestant Church Nelson James Hennen, Jr. Francis J. Waldron Hennen Delores Ann Hennen Bryant Clark H. Hennen Ronald Fordyce James Cox Ralph E. Hixenbaugh Frank Hennen Frank Hennen Carol A. Irwin Bernard A. Yocke	1-9-21

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WV Department of
Environmental Protection
11/17/2023



API WELL NO
47 - 061 - 01944
STATE COUNTY PERMIT

TRACT ID	SURFACE OWNER	LESSOR	PIN
22B	CNX RCPC LLC	Joseph Muto	1-9-21
		Milan W. Cikovich, Jr. and Susan K. Cikovich	
		Steven E. Hennen	
		Gregory S. Clark	
		Carl J. Woods	
		Mark A. Clark	
		Beverly A. Tonge	
		Wanda Lee Shaffer	
		Denzil L. Hennen and Bonnie L. Hennen, h/w	
		Eugene D. Hennen	
		Nancy K. Haddix	
		Carolyn S. Moore and James E. Moore, w/h	
		Charlie Fudge	
		Mary Sargent Hennen	
		Belinda T. Shriver and Chales C. Shriver, w/h	
		Donna K. Wickham	
		Denise Mitchell	
		Marjorie Woods White	
		James R. Hennen, Jr.	
		Judy Kay Marshall and Graham Marshall, h/w	
		Mary Virginia Davis	
		EQT Production Company	
		Donna R. Hennen	
		WOG Leaseing, LLC	
		Betty Short	
		Don Fordyce	
		Mildred Louise Walton	
		Linda S. Sansone and Charles F. Sansone, w/h	
		Karen S. Gray	
		Helene M. Muetzel	
		Cecil Hennen	
		Roger L. Pratt	
		Milan W. Cikovich, Jr., individually and as Trustee of the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich, and Christine Michelle Park, individually and as Trustee of the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich	
		Melissa Ann Hennen Limbaugh	
		Three Rivers Royalty II, LLC	
		Connie Jean Thompson Hennen	
		Richard P. Hennen	
		Bonnie Lee Hennen Winnen	
		David L. Liming and Nancy A. Liming, h/w	
		Herbert Lee Haines and Linda R. Haines, h/w	
		Helen Pecora	
		Dorothy Chohrach	
		Patricia A. Cooney	
		Nancy Irwin Singer	
		James C. Irwin	
		Jeannette Irwin Prout	
		St. John's Evangelical Protestant Church	
		Nelson James Hennen, Jr.	
		Francis J. Waldron Hennen	
		Delores Ann Hennen Bryant	
		Clark H. Hennen	
		Ronald Fordyce	
		James Cox	
		Ralph E. Hixenbaugh	
		Frank Hennen	
		Frank Hennen	
		Carol A. Irwin	
		Bernard A. Yocke	
TRACT ID	SURFACE OWNER	LESSOR	PIN
23	Consol Mining Company LLC	Russell Scotchell and Robin G. Scotchell, h/w	1-9-22
		Consolidation Coal Company	
		CONSOL Mining Company LLC	
		CNX Resource Holdings LLC	
TRACT ID	SURFACE OWNER	LESSOR	PIN
33A	Robert L. Slider, et al	Larry Charles Taylor, individually and as trustee for the Generation-Skipping Trust FBO Larry Charles Taylor	1-9-1 1-9-1.1 1-9-1.3 1-9-1.4
		Samata Taylor-Sturm, a/k/a Dixie Taylor-Sturm and Michael Douglas Sturm, wife and husband	
		Linda Suzann Miller, individually and as trustee for the Generation-Skipping Trust FBO Linda Suzann Miller	
		Chrysanthe E. Taylor a/k/a Chris Taylor	
TRACT ID	SURFACE OWNER	LESSOR	PIN
33B	Joey A. Slider, et ux	Larry Charles Taylor, individually and as trustee for the Generation-Skipping Trust FBO Larry Charles Taylor	1-9-1.2
		Samata Taylor-Sturm, a/k/a Dixie Taylor-Sturm and Michael Douglas Sturm, wife and husband	
		Linda Suzann Miller, individually and as trustee for the Generation-Skipping Trust FBO Linda Suzann Miller	
		Chrysanthe E. Taylor a/k/a Chris Taylor	

11/17/2023



API WELL NO
47 - 061 - 01944
STATE COUNTY PERMIT

TRACT ID	SURFACE OWNER	LESSOR	PIN
34	Consol Mining Company LLC	Jenny Lynn Clark and Philip E. Clark, w/h	1-9-2
		Clyde F. Hostutler and June Hostutler, h/w	
		George W. Hostutler	
35	David Henderson, et ux	David Henderson and Gail Henderson, h/w	1-10-5
		Antero Resources Corporation	
		Kenneth Jeffrey Campbell	
		Robert William Campbell	
		Janice Kay Dorsey Whitaker	
		Janet Lynn Dorsey Stukins	
		James W. Dorsey	
		Daniel Bruce Booth, aka Daniel B. Booth	
		William Charles Booth, aka William C. Booth	
		David Lee Booth aka David L. Booth	
		Gary Arthur Kesteven	
		Wendy C. Hershey fka Wendy C. Kesteven	
		Gary Allan Booth	
		Judith Ann Booth Taylor aka Judy A. Taylor	
		51B	
Accord land Services, LLC			
Stanhagen Legal LLC			
MP&G Legacy Holding, LLC			
Regina Schrimper			
Latricia Estridge			
Jon Walton			
Ellis Shannon McCreadie			
Sarah E. Roark, f/k/a Sarah E. McCreadie			
Anna Marie Boortz			
Virginia Smalley			
Clareen Frances Gomez			
Timothy Michael Kleinhenz and Verallen M. Kleinhenz, h/w			
Gregory Joseph Kleinhenz			
Dora Irene Antel Six			
Alice Clara Conwell, a/k/a Alice Clarie Conwell			
Judith Six			
Marjorie Oakley			
David M. McCallum			
Michael Stephen Kleinhenz			
Mark Anthony Kleinhenz			
Andrea Lee Chapman			
Anthony Francis Kleinhenz			
Carol Marie Murray			
Barbara Ann Dillon			
Linda Samuels			
Jimmie Kyle Core			
Donna DiPietrantonio, f/k/a Donna Romey			
Wilma Arlene Coffey			
Monongalia County Coal Company			
52B	Cucumber Tree Farm Inc.	Cucumber Tree Farm, Inc.	1-1-9
		Mountain V Oil and Gas, Inc.	
		Hayden Harper Energy Pennsylvania, LLC	
		Bluestone Energy Partners	
		Antero Resources Bluestone LLC	
		Antero Resources Appalachian Corporation	
		Energy Corporation of America	
EQT Production Company			
53	Cucumber Tree Farm Inc.	Cucumber Tree Farm, Inc.	1-1-9
		Mountain V Oil and Gas, Inc.	
		Hayden Harper Energy Pennsylvania, LLC	
		Bluestone Energy Partners	
		Antero Resources Bluestone LLC	
		Antero Resources Appalachian Corporation	
		Energy Corporation of America	
EQT Production Company			
54A	Frank G. Cox, Jr., et ux	Frank G. Cox, Jr.	1-1-6
		Amy Vandenberghe	
		Antero Resources Corporation	

11/17/2023

WW-6A1
(5/13)

Operator's Well No. WDTN18AHSM

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

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

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

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

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

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

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

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

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

Attachment - Form WW-GA-1 for WDTN18AHSM							
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1	1-9-37 1-12-7	189033000	Consol Mining Company LLC	Bounty Minerals, LLC	LOLA Drilling I, LLC	Not less than 1/8	1586/325
				Bounty Minerals III Acquisitions, LLC	LOLA Drilling I, LLC	Not less than 1/8	1586/328
				LOLA Drilling J, LLC	Rice Drilling B, LLC	Assignment	133/752
				Rice Drilling B, LLC	CNX Gas Company LLC	Assignment	159/809
3	1-12-4	189030000	Consol Mining Company LLC	Norman Core	Deep Rock Mineral Group, Inc.	Not less than 1/8	1586/287
				Deep Rock Mineral Group, Inc.	Northeast Natural Energy LLC	Assignment	135/85
				Northeast Natural Energy LLC	EQT Production Company	Assignment	159/634
				EQT Production Company	CNX Gas Company LLC	Memorandum Of Agreement	1812/643
				Kimeric and Company, LLC	Antero Resources Corporation	Not less than 1/8	1776/605
				Antero Resources Corporation	CNX Gas Company LLC	Assignment	158/372
				Shuman, Inc.	CNX Gas Company LLC	Not less than 1/8	1779/121
				Pamela J. Gaston	CNX Gas Company LLC	Not less than 1/8	1804/395
				Fred C. Park, et al	Consolidation Coal Company	Fee	1305/538
				Consolidation Coal Company	CONSOL Mining Company LLC	Quitclaim	1489/107
CONSOL Mining Company LLC	CNX Resource Holdings LLC	Quitclaim	1603/78				
CNX Resource Holdings LLC	CNX Gas Company LLC	Quitclaim	1670/669				
Joseph S. Delaney	CNX Gas Company LLC	Not less than 1/8	1631/37				
Michael S. Delaney	CNX Gas Company LLC	Not less than 1/8	1631/32				
Earlene Owens and Robert Owens, w/h	CNX Gas Company LLC	Not less than 1/8	1631/52				
Nancy Paulovicks and Jay E. Paulovicks, w/h	CNX Gas Company LLC	Not less than 1/8	1631/57				
Martha A. Pryor, a/k/a Martha Ann Pryor by Robert Owens as Agent	CNX Gas Company LLC	Not less than 1/8	1631/42				
W. James Shannon	CNX Gas Company LLC	Not less than 1/8	1631/47				
Leon E. Delaney	CNX Gas Company LLC	Not less than 1/8	1629/515				
Jeff T. Delaney	CNX Gas Company LLC	Not less than 1/8	1629/510				
Mary Ellen Bell	CNX Gas Company LLC	Not less than 1/8	1634/121				
Lee E. Delaney	CNX Gas Company LLC	Not less than 1/8	1634/775				
Martha Ann Price	CNX Gas Company LLC	Not less than 1/8	1635/231				
George William Cummins, Jr.	CNX Gas Company LLC	Not less than 1/8	1639/537				
David Allen Jolliffe and Donna Sue A. Jolliffe, h/w	CNX Gas Company LLC	Not less than 1/8	1634/90				
Lisa Ellen May and Gary A. May, w/h	CNX Gas Company LLC	Not less than 1/8	1636/305				
5	1-9-34 1-9-34.1	188614000 188615000	Consol Mining Company LLC	Fred C. Park, et al	Consolidation Coal Company	Fee	1305/538
				Consolidation Coal Company	CONSOL Mining Company LLC	Quitclaim	1489/107
				CONSOL Mining Company LLC	CNX Resource Holdings LLC	Quitclaim	1603/78
				CNX Resource Holdings LLC	CNX Gas Company LLC	Quitclaim	1670/669
6	1-9-29	188601000	Consol Mining Company LLC	Mike Ross, Inc.	CNX Gas Company LLC	Not less than 1/8	1618/825
				Waco Oil & Gas Co., Inc.	CNX Gas Company LLC	Not less than 1/8	1629/527
7	1-9-30	188602000	Consol Mining Company LLC	Ronnie Lee Jones and Elizabeth Ann Jones, h/w	Consolidation Coal Company	Fee	1298/683
				Consolidation Coal Company	CONSOL Mining Company LLC	Quitclaim	1489/107
				CONSOL Mining Company LLC	CNX Resource Holdings LLC	Quitclaim	1603/78
				CNX Resource Holdings LLC	CNX Gas Company LLC	Quitclaim	1667/86
8A	1-9-36	189015000	Consol Mining Company LLC	Martha Sue Kerr	Antero Resources Corporation	Not less than 1/8	1577/294
				Larry A. Kerr	Antero Resources Corporation	Not less than 1/8	1577/297
				Antero Resources Corporation	CNX Gas Company LLC	Assignment	133/438
				Bruce Scott Carpenter	CNX Gas Company LLC	Not less than 1/8	1527/680
				Patti Carpenter	CNX Gas Company LLC	Not less than 1/8	1527/684
				Bruce P. Carpenter	CNX Gas Company LLC	Not less than 1/8	1527/688
				Jeannine Osmanski and Robert E. Osmanski, w/h	CNX Gas Company LLC	Not less than 1/8	1527/692
				Martha Sue Kerr	Antero Resources Corporation	Not less than 1/8	1577/294
Larry A. Kerr	Antero Resources Corporation	Not less than 1/8	1577/297				
Antero Resources Corporation	CNX Gas Company LLC	Assignment	133/438				
Bruce Scott Carpenter	CNX Gas Company LLC	Not less than 1/8	1527/680				
Patti Carpenter	CNX Gas Company LLC	Not less than 1/8	1527/684				
Bruce P. Carpenter	CNX Gas Company LLC	Not less than 1/8	1527/688				
Jeannine Osmanski and Robert E. Osmanski, w/h	CNX Gas Company LLC	Not less than 1/8	1527/692				
8B	1-12-5	189015000	Consol Mining Company LLC	Martha Sue Kerr	Antero Resources Corporation	Not less than 1/8	1577/294
				Larry A. Kerr	Antero Resources Corporation	Not less than 1/8	1577/297
				Antero Resources Corporation	CNX Gas Company LLC	Assignment	133/438
				Bruce Scott Carpenter	CNX Gas Company LLC	Not less than 1/8	1527/680
				Patti Carpenter	CNX Gas Company LLC	Not less than 1/8	1527/684
				Bruce P. Carpenter	CNX Gas Company LLC	Not less than 1/8	1527/688
				Jeannine Osmanski and Robert E. Osmanski, w/h	CNX Gas Company LLC	Not less than 1/8	1527/692
				Rodney A. Clovis	CNX Gas Company LLC	Not less than 1/8	1790/332
				Christopher Lance Clovis	CNX Gas Company LLC	Not less than 1/8	1790/337
				Timothy Steele Clovis a/h/a Timothy S. Clovis	CNX Gas Company LLC	Not less than 1/8	1790/342
				Clinton Alan Clovis a/h/a Clint Clovis	CNX Gas Company LLC	Not less than 1/8	1790/347
				Robin L. Clovis Wade a/h/a Robin Lynn Clovis	CNX Gas Company LLC	Not less than 1/8	1792/60
				James Douglas Campbell	CNX Gas Company LLC	Not less than 1/8	1795/347
				Robert York Uren	CNX Gas Company LLC	Not less than 1/8	1813/109
				Pennie Mae Gurley	CNX Gas Company LLC	Not less than 1/8	1808/134
				Tiffany May Coker and Micahel D. Coker, w/h	CNX Gas Company LLC	Not less than 1/8	1810/526
				Joseph Allen Campbell and Kathryn Ernst Campbell, h/w	CNX Gas Company LLC	Not less than 1/8	1799/356
				Dorothy Ione Harcum	CNX Gas Company LLC	Not less than 1/8	1799/831
				David Hillirion Campbell and Sheryl L. Campbell, h/w	CNX Gas Company LLC	Not less than 1/8	1808/844
				Regina Kay Orfanos and Anthony Orfanos, w/h	CNX Gas Company LLC	Not less than 1/8	1800/26
				Michelle Law	CNX Gas Company LLC	Not less than 1/8	1795/367
				Tina Law	CNX Gas Company LLC	Not less than 1/8	1796/50
				Robin Lynn Campbell	CNX Gas Company LLC	Not less than 1/8	1792/706
				Susan Cale Teter and Gary Teter, w/h	CNX Gas Company LLC	Not less than 1/8	1794/197
				John Edward Cale	CNX Gas Company LLC	Not less than 1/8	1794/202
				Karen L. Haught and Jimmie A. Haught, w/h	CNX Gas Company LLC	Not less than 1/8	1789/455
				Edwin R. White a/h/a Eddie White and Patricia White, h/w	CNX Gas Company LLC	Not less than 1/8	1792/596
				Cherrie Anderson Yost a/h/a Cherrie Anderson Yost	CNX Gas Company LLC	Not less than 1/8	1792/276
				Douglas Yost	CNX Gas Company LLC	Not less than 1/8	1792/50
				David Yost	CNX Gas Company LLC	Not less than 1/8	1794/177
				Nancy Bohannon	CNX Gas Company LLC	Not less than 1/8	1793/723

Page 2065

11/17/2023

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
				St. John's Evangelical Protestant Church	CNX Gas Company LLC	Not less than 1/8	1648/700
				Nelson James Hennen, Jr.	CNX Gas Company LLC	Not less than 1/8	168/220
				Francis J. Waldron Hennen	CNX Gas Company LLC	Fee	1645/403
				Delores Ann Hennen Bryant	CNX Gas Company LLC	Fee	1650/576
				Clark H. Hennen	CNX Gas Company LLC	Fee	1650/594
				Ronald Fordyce	CNX Gas Company LLC	Fee	1650/581
				James Cox	CNX Gas Company LLC	Fee	1653/690
				Ralph E. Hixenbaugh	CNX Gas Company LLC	Fee	1645/418
				Frank Hennen	CNX Gas Company LLC	Fee	1661/213
				Frank Hennen	CNX Gas Company LLC	Fee	1680/131
				Carol A. Irwin	CNX Gas Company LLC	Fee	1645/408
				Bernard A. Yocke	CNX Gas Company LLC	Fee	1645/413
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
22B	1-9-21	188816000	CNX RCPC LLC	Joseph Muto	EQT Production Company	Not less than 1/8	1636/46
				Milan W. Cikovich, Jr. and Susan K. Cikovich	EQT Production Company	Not less than 1/8	1641/492
				Steven E. Hennen	EQT Production Company	Not less than 1/8	1629/752
				Gregory S. Clark	EQT Production Company	Not less than 1/8	1623/95
				Carl J. Woods	EQT Production Company	Not less than 1/8	1629/760
				Mark A. Clark	EQT Production Company	Not less than 1/8	1623/97
				Beverly A. Tonge	EQT Production Company	Not less than 1/8	1623/99
				Wanda Lee Shaffer	EQT Production Company	Not less than 1/8	1629/740
				Denzil L. Hennen and Bonnie L. Hennen, h/w	EQT Production Company	Not less than 1/8	1630/435
				Eugene D. Hennen	EQT Production Company	Not less than 1/8	1622/453
				Nancy K. Haddix	EQT Production Company	Not less than 1/8	1622/455
				Carolyn S. Moore and James E. Moore, w/h	EQT Production Company	Not less than 1/8	1622/451
				Charlie Fudge	EQT Production Company	Not less than 1/8	1635/645
				Mary Sargent Hennen	EQT Production Company	Not less than 1/8	1657/116
				Belinda T. Shriver and Chales C. Shriver, w/h	EQT Production Company	Not less than 1/8	1622/449
				Donna K. Wickham	EQT Production Company	Not less than 1/8	1629/744
				Denise Mitchell	EQT Production Company	Not less than 1/8	1629/748
				Marjorie Woods White	EQT Production Company	Not less than 1/8	1629/756
				James R. Hennen, Jr.	EQT Production Company	Not less than 1/8	1639/171
				Judy Kay Marshall and Graham Marshall, h/w	EQT Production Company	Not less than 1/8	1644/719
				Mary Virginia Davis	EQT Production Company	Not less than 1/8	1647/804
				EQT Production Company	CNX Gas Company LLC	Assignment	159/809
				Donna R. Hennen	WOG Leasing, LLC	Not less than 1/8	1800/218
				WOG Leasing, LLC	CNX Gas Company LLC	Assignment	161/362
				Betty Short	CNX Gas Company LLC	Not less than 1/8	1648/726
				Don Fordyce	CNX Gas Company LLC	Not less than 1/8	1653/747
				Mildred Louise Walton	CNX Gas Company LLC	Not less than 1/8	1803/723
				Linda S. Sansone and Charles F. Sansone, w/h	CNX Gas Company LLC	Not less than 1/8	1807/789
				Karen S. Gray	CNX Gas Company LLC	Not less than 1/8	1650/660
				Helene M. Muetzel	CNX Gas Company LLC	Not less than 1/8	1653/752
				Cecil Hennen	CNX Gas Company LLC	Not less than 1/8	1828/36
				Roger L. Pratt	CNX Gas Company LLC	Not less than 1/8	1808/146
				Milan W. Cikovich, Jr., individually and as Trustee of the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich, and Christine Michelle Park, individually and as Trustee of the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich	CNX Gas Company LLC	Not less than 1/8	1648/731
				Melissa Ann Hennen Limbaugh	CNX Gas Company LLC	Not less than 1/8	1655/291
				Three Rivers Royalty II, LLC	CNX Gas Company LLC	Not less than 1/8	1616/658
				Connie Jean Thompson Hennen	CNX Gas Company LLC	Not less than 1/8	1656/354
				Richard P. Hennen	CNX Gas Company LLC	Not less than 1/8	1648/694
				Bonnie Lee Hennen Winnen	CNX Gas Company LLC	Not less than 1/8	1645/117
				David L. Liming and Nancy A. Liming, h/w	CNX Gas Company LLC	Not less than 1/8	1520/797
				Herbert Lee Haines and Linda R. Haines, h/w	CNX Gas Company LLC	Not less than 1/8	1804/302
				Helen Pecora	CNX Gas Company LLC	Not less than 1/8	1648/726
				Dorothy Chohrach	CNX Gas Company LLC	Not less than 1/8	1645/32
				Patricia A. Cooney	CNX Gas Company LLC	Not less than 1/8	1645/57
				Nancy Irwin Singer	CNX Gas Company LLC	Not less than 1/8	1644/801
				James C. Irwin	CNX Gas Company LLC	Not less than 1/8	1645/37
				Jeanette Irwin Prout	CNX Gas Company LLC	Not less than 1/8	1648/743
				St. John's Evangelical Protestant Church	CNX Gas Company LLC	Not less than 1/8	1648/700
				Nelson James Hennen, Jr.	CNX Gas Company LLC	Not less than 1/8	168/220
				Francis J. Waldron Hennen	CNX Gas Company LLC	Fee	1645/403
				Delores Ann Hennen Bryant	CNX Gas Company LLC	Fee	1650/576
				Clark H. Hennen	CNX Gas Company LLC	Fee	1650/594
				Ronald Fordyce	CNX Gas Company LLC	Fee	1650/581
				James Cox	CNX Gas Company LLC	Fee	1653/690
				Ralph E. Hixenbaugh	CNX Gas Company LLC	Fee	1645/418
				Frank Hennen	CNX Gas Company LLC	Fee	1661/213
				Frank Hennen	CNX Gas Company LLC	Fee	1680/131
				Carol A. Irwin	CNX Gas Company LLC	Fee	1645/408
				Bernard A. Yocke	CNX Gas Company LLC	Fee	1645/413
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
23	1-9-22	189383000	Consol Mining Company LLC	Russell Scotchell and Robin G. Scotchell, h/w	Consolidation Coal Company	Fee	1306/582
				Consolidation Coal Company	CONSOL Mining Company LLC	Quitclaim	1483/107
				CONSOL Mining Company LLC	CNX Resource Holdings LLC	Quitclaim	1603/78
				CNX Resource Holdings LLC	CNX Gas Company LLC	Quitclaim	1716/644
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
33A	1-9-1 1-9-1.1 1-9-1.3 1-9-1.4	189590000	Robert L. Slider, et al	Larry Charles Taylor, individually and as trustee for the Generation-Skipping Trust	CNX Gas Company LLC	Not less than 1/8	1521/200
				FBO Larry Charles Taylor			
				Samata Taylor-Sturm, a/k/a Dixie Taylor-Sturm and Michael Douglas Sturm, wife and husband	CNX Gas Company LLC	Not less than 1/8	1511/142
				Linda Suzann Miller, individually and as trustee for the Generation-Skipping Trust	CNX Gas Company LLC	Not less than 1/8	1512/752
				FBO Linda Suzann Miller			
				Chrysanthe E. Taylor a/k/a Chris Taylor	CNX Gas Company LLC	Not less than 1/8	1512/756
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
33B	1-9-1.2	189590000	Joey A. Slider, et ux	Larry Charles Taylor, individually and as trustee for the Generation-Skipping Trust	CNX Gas Company LLC	Not less than 1/8	1521/200
				FBO Larry Charles Taylor			
				Samata Taylor-Sturm, a/k/a Dixie Taylor-Sturm and Michael Douglas Sturm, wife and husband	CNX Gas Company LLC	Not less than 1/8	1511/142
				Linda Suzann Miller, individually and as trustee for the Generation-Skipping Trust	CNX Gas Company LLC	Not less than 1/8	1512/752
				FBO Linda Suzann Miller			
				Chrysanthe E. Taylor a/k/a Chris Taylor	CNX Gas Company LLC	Not less than 1/8	1512/756
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
34	1-9-2	189592000	Consol Mining Company LLC	Jenny Lynn Clark and Philip E. Clark, w/h	CNX Gas Company LLC	Not less than 1/8	1520/457
				Clyde F. Hostutler and June Hostutler, h/w	CNX Gas Company LLC	Not less than 1/8	1520/793
				George W. Hostutler	CNX Gas Company LLC	Not less than 1/8	1652/51
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
35	1-10-5	189466000	David Henderson, et ux	David Henderson and Gail Henderson, h/w	Antero Resources Corporation	Not less than 1/8	1625/278
				Antero Resources Corporation	CNX Gas Company LLC	Assignment	139/186
				Kenneth Jeffrey Campbell	CNX Gas Company LLC	Not less than 1/8	1644/233
				Robert William Campbell	CNX Gas Company LLC	Not less than 1/8	1644/238

Page 4 of 5

11/17/2023

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
				Janice Kay Dorsey Whitaker	CNX Gas Company LLC	Not less than 1/8	1644/258
				Janet Lynn Dorsey Stukins	CNX Gas Company LLC	Not less than 1/8	1644/263
				James W. Dorsey	CNX Gas Company LLC	Not less than 1/8	1644/268
				Daniel Bruce Booth, aka Daniel B. Booth	CNX Gas Company LLC	Not less than 1/8	1644/815
				William Charles Booth, aka William C. Booth	CNX Gas Company LLC	Not less than 1/8	1645/17
				David Lee Booth aka David L. Booth	CNX Gas Company LLC	Not less than 1/8	1645/27
				Gary Arthur Kesteven	CNX Gas Company LLC	Not less than 1/8	1646/365
				Wendy C. Hershey fia Wendy C. Kesteven	CNX Gas Company LLC	Not less than 1/8	1646/410
				Gary Allan Booth	CNX Gas Company LLC	Not less than 1/8	1646/420
				Judith Ann Booth Taylor aka Judy A. Taylor	CNX Gas Company LLC	Not less than 1/8	1652/1
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
51B	1-2-1	189460000	Monongalia County Coal Resources Inc.	Wild Thing Barnstormers, LLC	CNX Gas Company LLC	Not less than 1/8	1734/279
				Accord Land Services, LLC	CNX Gas Company LLC	Not less than 1/8	1734/274
				Stanhagen Legal LLC	CNX Gas Company LLC	Not less than 1/8	1734/284
				MP&G Legacy Holding, LLC	CNX Gas Company LLC	Not less than 1/8	1733/414
				Regina Schrimper	CNX Gas Company LLC	Not less than 1/8	1652/16
				Laticia Estridge	CNX Gas Company LLC	Not less than 1/8	1652/46
				Jon Walton	CNX Gas Company LLC	Not less than 1/8	1651/793
				Ellis Shannon McCreddie	CNX Gas Company LLC	Not less than 1/8	1652/706
				Sarah E. Roark, f/k/a Sarah E. McCreddie	CNX Gas Company LLC	Not less than 1/8	1680/447
				Anna Marie Boortz	CNX Gas Company LLC	Not less than 1/8	1656/770
				Virginia Smalley	CNX Gas Company LLC	Not less than 1/8	1661/277
				Clareen Frances Gomez	CNX Gas Company LLC	Not less than 1/8	1685/636
				Timothy Michael Kleinhenz and Verallen M. Kleinhenz, h/w	CNX Gas Company LLC	Not less than 1/8	1646/430
				Gregory Joseph Kleinhenz	CNX Gas Company LLC	Not less than 1/8	1685/626
				Dora Irene Antel Six	CNX Gas Company LLC	Not less than 1/8	1663/11
				Alice Clara Conwell, a/k/a Alice Clarie Conwell	CNX Gas Company LLC	Not less than 1/8	1674/451
				Judith Six	CNX Gas Company LLC	Not less than 1/8	1664/181
				Marjorie Oakley	CNX Gas Company LLC	Not less than 1/8	1805/450
				David M. McCallum	CNX Gas Company LLC	Not less than 1/8	1751/656
				Michael Stephen Kleinhenz	CNX Gas Company LLC	Not less than 1/8	1826/525
				Mark Anthony Kleinhenz	CNX Gas Company LLC	Not less than 1/8	168/226
				Andrea Lee Chapman	CNX Gas Company LLC	Not less than 1/8	168/226
				Anthony Francis Kleinhenz	CNX Gas Company LLC	Not less than 1/8	168/226
				Carol Marie Murray	CNX Gas Company LLC	Not less than 1/8	168/226
				Barbara Ann Dillon	CNX Gas Company LLC	Not less than 1/8	168/226
				Linda Samuels	CNX Gas Company LLC	Not less than 1/8	168/226
				Jimmie Kyle Core	CNX Gas Company LLC	Fee	1677/188
				Donna DiPietrantonio, f/k/a Donna Romey	CNX Gas Company LLC	Fee	1675/278
				Wilma Ariene Coffey	CNX Gas Company LLC	Fee	1696/629
				Monongalia County Coal Company	CNX Gas Company LLC	Fee	1660/124
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
52B	1-1-9	239984000	Cucumber Tree Farm Inc.	Cucumber Tree Farm, Inc.	Mountain V Oil and Gas, Inc.	Not less than 1/8	1328/406
				Mountain V Oil and Gas, Inc.	Hayden Harper Energy Pennsylvania, LLC	Assignment	100/444
				Hayden Harper Energy Pennsylvania, LLC	Bluestone Energy Partners	Assignment	108/486
				Bluestone Energy Partners	Antero Resources Bluestone LLC	Merger	WVSOS
				Antero Resources Bluestone LLC	Antero Resources Appalachian Corporation	Assignment	115/803
				Antero Resources Appalachian Corporation	Energy Corporation of America	Assignment	116/92
				Energy Corporation of America	EQT Production Company	Assignment	124/688
				EQT Production Company	CNX Gas Company LLC	Assignment	159/797
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
53	1-1-9	301944000	Cucumber Tree Farm Inc.	Cucumber Tree Farm, Inc.	Mountain V Oil and Gas, Inc.	Not less than 1/8	1328/406
				Mountain V Oil and Gas, Inc.	Hayden Harper Energy Pennsylvania, LLC	Assignment	100/444
				Hayden Harper Energy Pennsylvania, LLC	Bluestone Energy Partners	Assignment	108/486
				Bluestone Energy Partners	Antero Resources Bluestone LLC	Merger	WVSOS
				Antero Resources Bluestone LLC	Antero Resources Appalachian Corporation	Assignment	115/803
				Antero Resources Appalachian Corporation	Energy Corporation of America	Assignment	116/92
				Energy Corporation of America	EQT Production Company	Assignment	124/688
				EQT Production Company	CNX Gas Company LLC	Assignment	159/797
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
54A	1-1-6	189457000	Frank G. Cox, Jr., et ux	Frank G. Cox, Jr.	Antero Resources Corporation	Not less than 1/8	1571/789
				Amy Vandenberghe	Antero Resources Corporation	Not less than 1/8	1571/786
				Antero Resources Corporation	CNX Gas Company LLC	Assignment	133/438

Page 5 of 5



CNX Center
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: WDTN18AHSM- *MODIFICATION* Horizontal Drilling Permit Application

To Whom It May Concern:

CNX Gas Company LLC (CNX) is requesting a modification to extend the WDTN18AHSM 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 WDTN18AHSM Modification application and have enclosed a check for: \$15,150.00. CNX previously permitted the "WDTN18AHSM" in September 2023.

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

Sincerely,

Sarah Weigand

CK# 2140043929
\$ 7500⁰⁰
Date 11/08/23

RECEIVED
Office Of Oil and Gas
NOV - 1 2023
WV Department of
Environmental Protection

11/17/2023

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: [image001.png](#)
[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

Follow us:



From: [Donohue, Thomas E](#)
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

<http://www.pacodeandbulletin.gov/Display/pacode?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

11/17/2023