



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 WDTN18CHSM
47-061-01946-00-00

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: WDTN18CHSM
Farm Name: CONSOL MINING COMPANY LLC
U.S. WELL NUMBER: 47-061-01946-00-00
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 BATTEL WADESTOWN
Operator ID County District Quadrangle

2) Operator's Well Number: WDTN18CHSM 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 X Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow X Deep _____
Horizontal X

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: 27,851' MD at TD

11) Proposed Horizontal Leg Length: 19,497'

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 X

(a) If Yes, provide Mine Info: Name: see mine map

Depth: _____

Seam: _____

Owner: _____

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CK# 2140043931
\$7500⁰⁰
11/08/23

Gayne
Knitowski,
Inspector

Digitally signed by Gayne
Knitowski, Inspector
Date: 2023.10.25 14:20:43
-04'00'

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	75	46	96 / CTS
Fresh Water	13.375	New	J-55	54.5	1,180	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	27,851	27,822	2,460 TOC @ 1,550'
Tubing	2.375	New	J-55	4.7	Above assumes RF = 29'	TBD	N/A
Liners	N/A						

Gayne
Knitowski,
Inspector

Digitally signed by Gayne
Knitowski, Inspector
Date: 2023.10.25 14:21:09
-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:				

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 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.



CNX



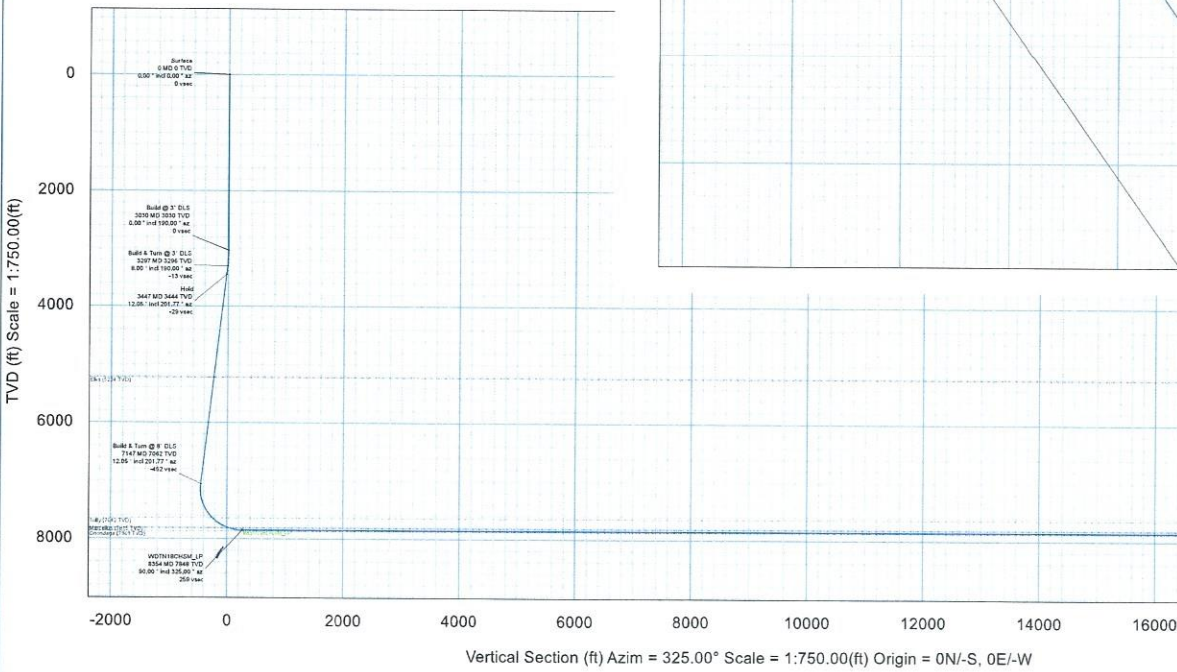
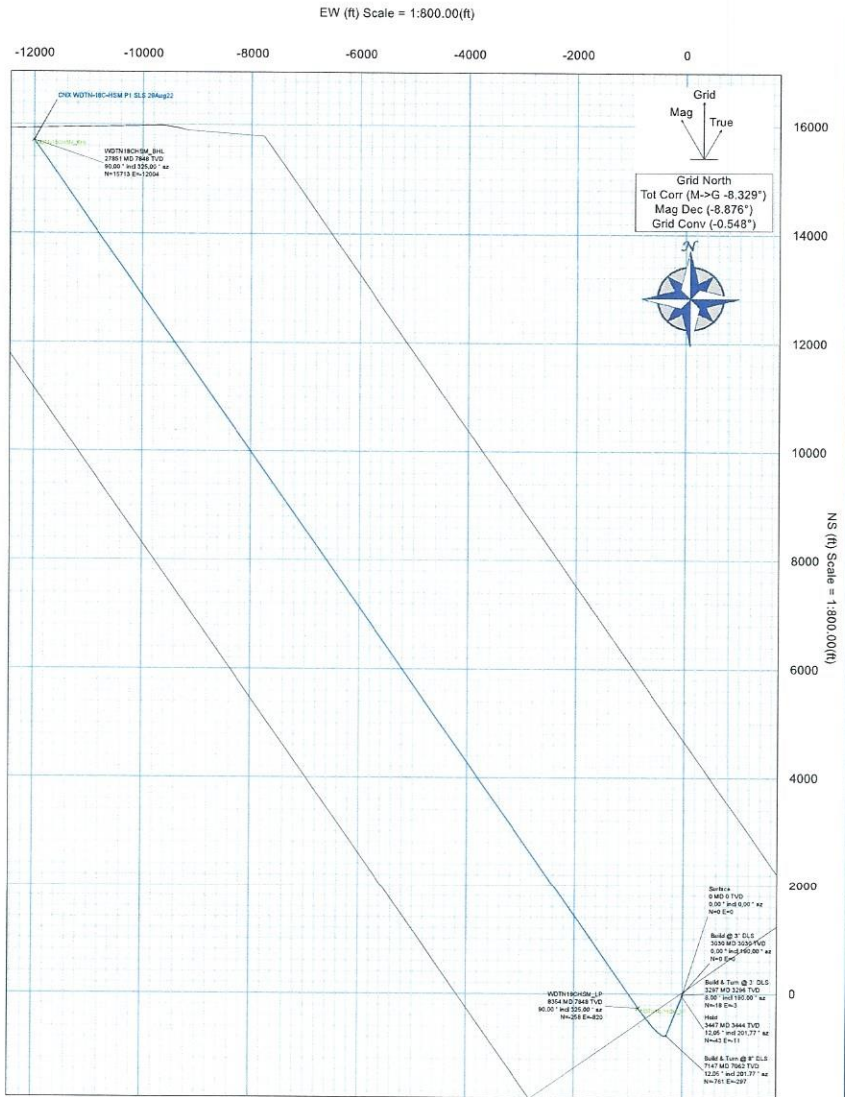
Borehole: Original Borehole	Well: WDTN18CHSM	Field: WV Monongalia County (NAD 27)	Structure: CNX WDTN18 Pad
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Gravity & Magnetic Parameters Model: HDGM 2022 Dip: 68.392° Date: 29-Aug-2022 MagDec: -8.876° FS: 51805.391nT Gravity FS: 999.346mgm (8.80665 Based)	Surface Location NAD27 West Virginia State Plane, Northern Zone, US Feet Lat: N 39 41 27.59 Lon: W 80 21 30.77 Northing: 434842.827NUS Easting: 1769397.717NUS Grid Conv: -0.6476° Scale Fact: 0.99994138	Miscellaneous Slot: WDTN18CHSM TVD Ref: KB(1228ft above MSL) Plan: CNX WDTN18C-HSM P1 SLS 29Aug22
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Target Description		Grid Coord		Local Coord						
Target Name	Shape	Dimension	Latitude	Longitude	Northing	Easting	TVD	WCor	E(WCor)	E(H760)
wdt18h_north_pole_mnk	Polyline	N/A	N 39 41 27.59	W 80 21 30.73	434882.53	1759405.90	1228.00	30.83	28.07	3.19
WDTN18CHSM_LP	Point	N/A	N 39 41 24.94	W 80 21 41.23	434684.61	1757577.32	7848.00	258.04	-258.22	-820.44
WDTN18CHSM_BHL	Point	N/A	N 39 44 1.71	W 80 24 5.33	450954.73	1744334.33	7848.00	1876.15	15712.89	-1203.51

PART	Seq	Survey Tool	Vendor/Tool	Hole Size (in)	CASING Size (in)	Expected Hole (ft)	MD From (ft)	MD To (ft)	Survey Frequency (ft)	EOU Size (ft)	EOU Size (ft)	Comments/Contingency
1	1	AD200A_OYRONS-Dynh Only	AD200A_OYRONS	17.5	13.375	0	29	1/100	0.725	0.725		
1	2	AD200A_OYRONS	AD200A_OYRONS	17.5	13.375	29	1120	1/100	5.302	5.879		
1	3	AD01M_MWD	AD01M_MWD	12.25	9.625	1120	2930	1/100	10.879	10.865		
1	4	AD01M_MWD	AD01M_MWD	8.75	5.5	2930	7500	1/100	32.488	26.288		
1	5	SD00M_MWD-GRF	SD00M_MWD-GRF	8.5	5.5	7500	27851.219	1/100	827.089	58.899		

Critical Point	MD	RICL	AZIM	TVD	VSEC	N(°W)	E(H(Wh))	DLB
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Build @ 3' DLS	3030.00	0.00	190.00	3030.00	0.00	0.00	0.00	0.00
Build & Turn @ 3' DLS	3296.87	8.00	190.00	3296.87	-13.14	-18.30	-3.23	3.00
Hold	3447.32	12.05	201.77	3444.14	-26.18	-43.25	-10.89	3.00
Turn	5247.29	12.05	201.77	5224.00	-37.34	-105.11	-151.83	0.00
Build & Turn @ 8' DLS	7147.01	12.05	201.77	7062.30	-45.43	-180.57	-297.41	0.00
Turn	7792.35	45.94	315.85	7842.00	-348.89	-451.54	-500.12	8.00
Manhole	8134.14	72.68	321.81	7815.00	42.51	-432.23	-581.41	0.00
WDTN18CHSM_LP	8554.13	90.00	325.00	7848.00	594.06	-258.22	-820.44	0.00
WDTN18CHSM_BHL	27851.22	90.00	325.00	7848.00	1876.15	15712.89	-1203.51	0.00
Driveway	N/A	N/A	N/A	7868.00				



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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					

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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.

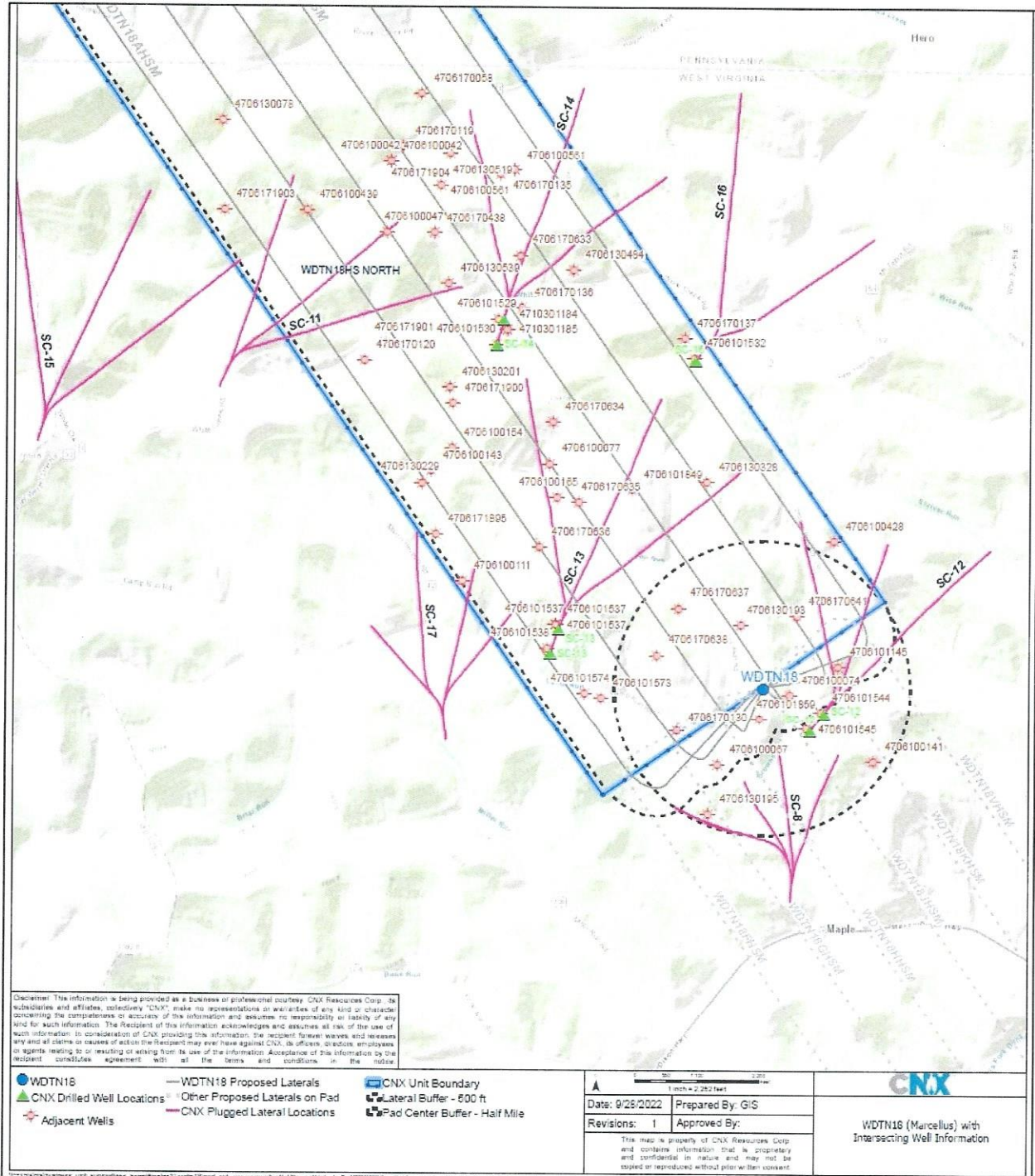


Figure 4. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the Wadestown Area Stress Profile log.

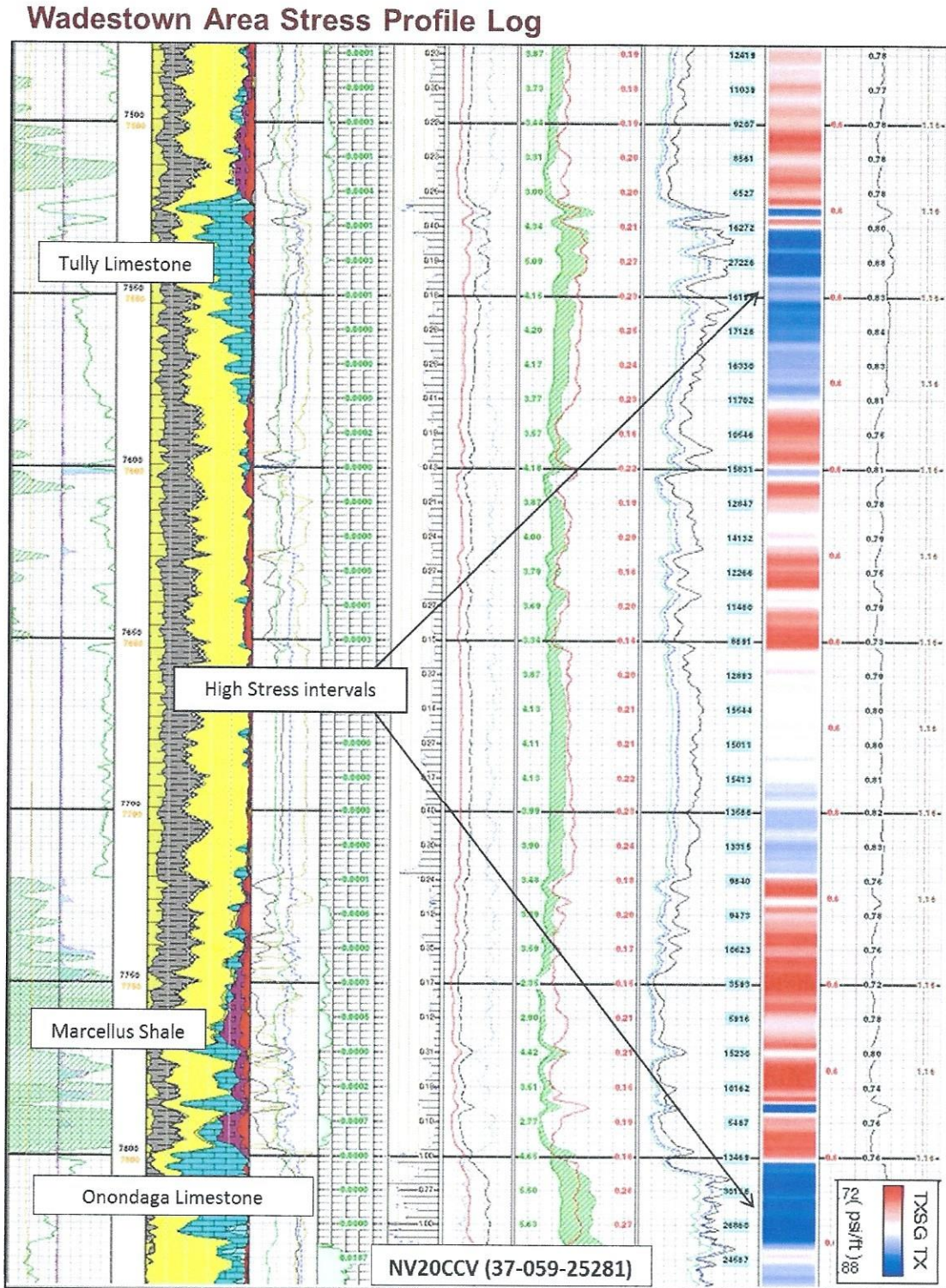
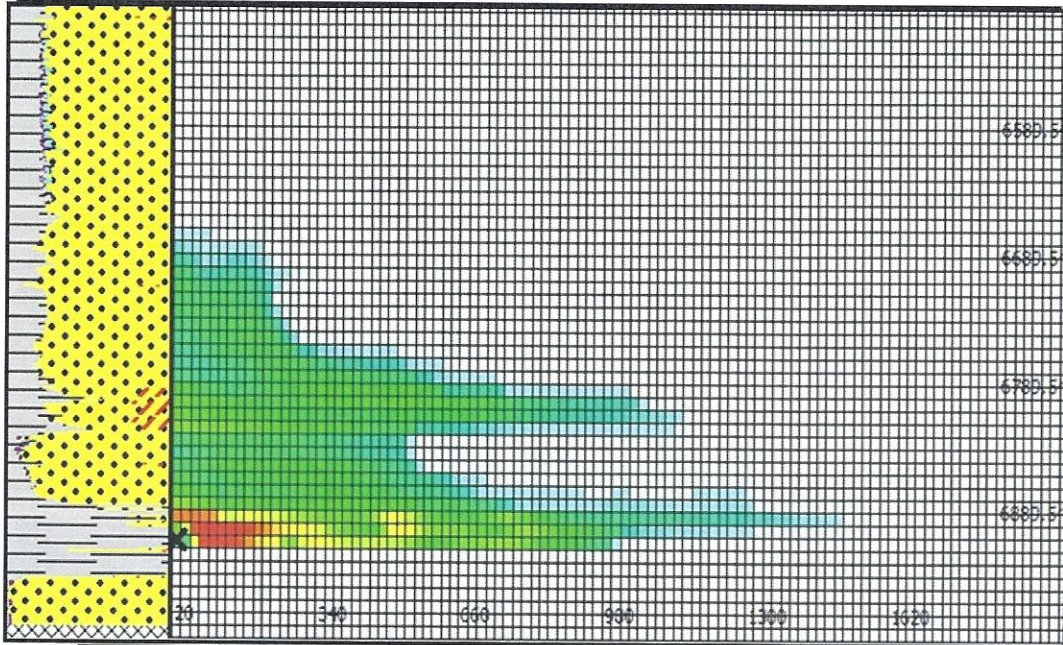


Figure 5. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Hamilton and Tully are much thinner than Wadestown. Frac modeling predicts frac height of approximately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

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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.

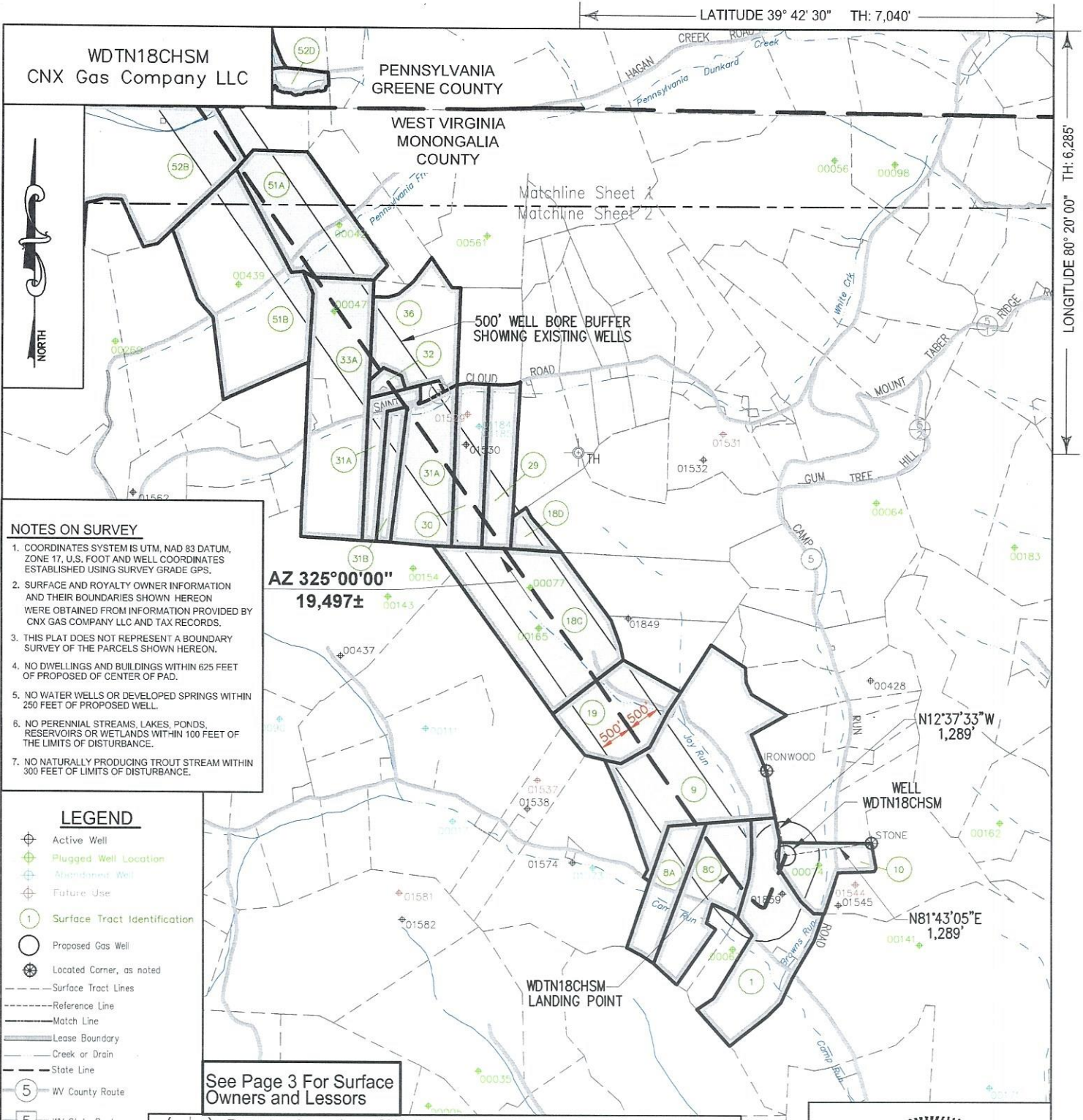
API Number	Well Name	Well Number	Current Operator	Fluid Type	Profile Type	Completion Formation	Current Status	Total Depth	Latitude - WGS84	Longitude - WGS84
47051015320000	TERRA FIRMA COMPANY		CNX	OIL & GAS	V	FITTSBURGH COAL	INACTIVE	912	39.707185	-80.382524
47051010650000	HENNEN, ALEX - HEIRS 1	1	OPER 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	FITTSBURGH COAL	INACTIVE	1001	39.692845	-80.371986
47051015450000	CONSOLIDATION COAL COMPAI	SC12A	CNX	OIL & GAS	V	FITTSBURGH COAL	ACTIVE	1210	39.689061	-80.355512
47051015440000	CONSOLIDATION COAL COMPAI	SC12	CNX	OIL & GAS	V	UNIDENTIFIED COAL	INACTIVE	1210	39.689912	-80.354837
47051015740000	TERRA FIRMA COMPANY	SC 8A	DIVERSIFIED ENERGY	OIL & GAS	V	FITTSBURGH COAL	INACTIVE	1250	39.690665	-80.388674
47051015370000	CONSOLIDATION COAL CO.	SC13	CNX	OIL & GAS	H	FITTSBURGH 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	<Null>	H	<Null>	COMPLETED	1270	39.69402	-80.371478
47051015290000	MOORE, EDGAR & SETH	SC14	CNX	OIL & GAS	V	FITTSBURGH COAL	INACTIVE	1304	39.705911	-80.375308
47051015330000	MOORE, EDGAR & SETH	SC14A	CNX	OIL & GAS	V	FITTSBURGH COAL	INACTIVE	1304	39.707650	-80.376445
47051001430000	E C CLOVIS HEIRS	1	OPER IN MIN.OWNER FLD.NO CODE ASSIGN(ORPHAN WELL PROJ)	GAS	V	FITTSBURGH COAL	P & A	1454	39.701449	-80.379491
47051015730000	TERRA FIRMA COMPANY		DIVERSIFIED ENERGY	GAS	V	UNIDENTIFIED COAL	P & A	1520	39.690478	-80.388527
47051001540000	CLOVIS, E. C. - HEIRS 2	2	OPER IN MIN.OWNER FLD.NO CODE ASSIGN(ORPHAN WELL PROJ)	DRY HOLE	V	FITTSBURGH COAL	P & A	1630	39.702609	-80.378177
47051701190000	ELI WHITE		GIBSON & GILES	UNKNOWN	U		INACTIVE	2350	39.717309	-80.391557
47051000570000	M.L. SHRIVER ESTATE 1-2610		(N/A)	GAS	V	BIG INJUN (PRICESEQ)	P & A	3155	39.697224	-80.391097
47051000420000	SIX, D.A. 1	1	OPER IN MIN.OWNER FLD.NO CODE ASSIGN(ORPHAN WELL PROJ)	UNKNOWN	V	FITTSBURGH COAL	P & A	3195	39.718954	-80.382306
47051000420201	SIX, D.A. 1	1	OPER IN MIN.OWNER FLD.NO CODE ASSIGN(ORPHAN WELL PROJ)	UNKNOWN	V	FITTSBURGH COAL	P & A	3195	39.718954	-80.382306
47051305190000	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		P & A	3362	39.692305	-80.376626
47051300780000	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		P & A	3371	39.713071	-80.382494
47051000740000	TENNANT, LEMLEY 5208		(N/A)	GAS	V	THIRTY-FOOT	P & A	3385	39.697037	-80.396652
47051304840000	J H STILES		AM SNIDER	GAS	U	BAYARD	INACTIVE	3449	39.705049	-80.37086
47051001110000	C E HENNEN	1	PITTSBURGH & WV GAS	GAS	V	BAYARD	P & A	3483	39.689078	-80.377426
47051303740000	LUCINDA SIX		CLOVIS ROY W	GAS	U	BAYARD	INACTIVE	3485	39.705579	-80.385601
47051011450000	HAINES, E	2505	A V COMPANY	GAS	V	FIFTH	P & A	3471	39.692173	-80.38389
47051002690000	GILMORE, ELIZABETH, ETUX 1	1	BIG SAND DRILLING/BIG SANDY GAS	GAS	V	BAYARD	P & A	3501	39.711683	-80.394039
47051701200000	JAMES L WHITE		(N/A)	UNKNOWN	U		INACTIVE	3520	39.705819	-80.383561
47051302290000	E C CLOVIS		PITTSBURGH & WV GAS	GAS	U	BIG INJUN (PRICESEQ)	INACTIVE	3576	39.700874	-80.380055
47051303590000	W FRANK TAYLOR		B GUY & A G PATTERSON	GAS	U	FIFTH	INACTIVE	3680	39.718653	-80.378593
47051001410000	SHRIVER, CHARLES F 1-3832		A V COMPANY	WATER	V	BAYARD	P & A	3740	39.687472	-80.381244
47051018560000	CONSOLMINING COMPANY LLY WDTN18MHSU		CNX	UNKNOWN	H	MARCELLUS SHALE	EXPIRED PERMIT	<Null>	39.698504	-80.386461
47051004280000	SHRIVER 5114		PILLAR ENERGY LLC	GAS	V		ACTIVE	39.686254	-80.383953	
47051004370000	CLOVIS 5390		PILLAR ENERGY LLC	GAS	V		ACTIVE	39.686861	-80.381931	
47051301920000		1	PITTSBURGH & WV GAS	GAS	U	BAYARD	INACTIVE	39.694108	-80.389785	
47051301950000	MAHLON TENNANT HEIRS	1	MANUFACTURERS LIGHT & HEAT CO	GAS	U	BAYARD	INACTIVE	39.684778	-80.391858	
47051302010000	CHAS WHITE	2	PITTSBURGH & WV GAS	UNKNOWN	U		INACTIVE	39.705504	-80.379374	
47051302220000	E C CLOVIS	1	PITTSBURGH & WV GAS	GAS	U	BAYARD	INACTIVE	39.705049	-80.385657	
47051303280000	LAURA B TENNANT	1	MANUFACTURERS LIGHT & HEAT CO	GAS	U	BAYARD	INACTIVE	39.701009	-80.380204	
47051304750000	FRED HENNEN	2	CARNEGIE NATURAL GAS CO	GAS	U	GORDON STRAY	INACTIVE	39.719919	-80.373313	
47051304750001	FRED HENNEN	2	CARNEGIE NATURAL GAS CO	GAS	U	GORDON STRAY	INACTIVE	39.719919	-80.373313	
47051700580000	R V HENNEN/TAYLOR		BP	UNKNOWN	U	FIFTH	INACTIVE	39.719992	-80.380428	
47051701330000		1	OPER IN MIN.OWNER FLD.NO CODE ASSIGN(ORPHAN WELL PROJ)	UNKNOWN	U	FIFTH	INACTIVE	39.688838	-80.383724	
47051701350000	F H HENNEN		CARNEGIE NATURAL GAS CO	UNKNOWN	U		INACTIVE	39.716004	-80.375261	
47051701350000	JOHN G WHITE		CARNEGIE NATURAL GAS CO	UNKNOWN	U		INACTIVE	39.709475	-80.3733671	
47051701370000	SIMON L WHITE		PHILADELPHIA COMPANY, THE	UNKNOWN	U		INACTIVE	39.708124	-80.393444	
47051701570000	HENRY W HAINES		(N/A)	UNKNOWN	U		INACTIVE	39.693478	-80.348335	
47051701610000	ELIJAH C CLOVIS		MANUFACTURERS LIGHT & HEAT CO	UNKNOWN	U		INACTIVE	39.700584	-80.381932	
47051704380000	S E KIMBLE		(N/A)	UNKNOWN	U		INACTIVE	39.71307	-80.37849	
47051706330000	J G WHITE		BP	UNKNOWN	U		INACTIVE	39.712055	-80.374044	
47051706340000	L A STILES		(N/A)	UNKNOWN	U		INACTIVE	39.703915	-80.371784	
47051706350000	ALEX HENNAN		CLOVIS	UNKNOWN	U		INACTIVE	39.695995	-80.370104	
47051706350000	L HENNEN		(N/A)	UNKNOWN	U		INACTIVE	39.697816	-80.372544	
47051706370000	MAHLON TENNANT		(N/A)	UNKNOWN	U		INACTIVE	39.694917	-80.382723	
47051706380000	ROBERT CLOVIS		PHILADELPHIA OIL CO	UNKNOWN	U		INACTIVE	39.692594	-80.365037	
47051706410000	S S WHITE		PHILADELPHIA OIL CO	UNKNOWN	U		INACTIVE	39.694625	-80.366210	
47051718960000	ALEX HENNEN		(N/A)	UNKNOWN	U		INACTIVE	39.6984	-80.379115	
47051718960000	ALEX HENNEN		CLOVIS	UNKNOWN	U		INACTIVE	39.69811	-80.380804	
47051719000000	CHARLES WHITE		BP	UNKNOWN	U		INACTIVE	39.704788	-80.379177	
47051719010000	R PETTE		(N/A)	UNKNOWN	U		INACTIVE	39.707659	-80.382494	
47051719030000	ELIZABETH GILMORE		(N/A)	UNKNOWN	U		INACTIVE	39.714066	-80.382616	
47051719040000	S E KIMBLE		(N/A)	UNKNOWN	U		INACTIVE	39.716869	-80.378552	
47051000770000	ALEX HENNEN		PITTSBURGH & WV GAS	DRY HOLE	V		P & A	39.701883	-80.371961	
47051004390000	OLA SIX		EQUITRANS MIDSTREAM	UNKNOWN	V		P & A	39.714087	-80.387561	
47051005610000	HENNEN	37	EGT	GAS	V		P & A	39.71162	-80.374459	
47051005610001	HENNEN	37	EGT	GAS	V		P & A	39.71162	-80.374459	
47051015100000	INDIGO 3		INDIGO ENERGY	UNKNOWN	V		P & A	39.72098	-80.401556	
47103011840000	SANTEE HEIRS 4		J A & II OIL & GAS COMPANY	UNKNOWN	V	MAXTON	P & A	39.706413	-80.374799	
47103011850000	SANTEE HEIRS 5		J A & II OIL & GAS COMPANY	GAS	V	MAXTON	P & A	39.706413	-80.374799	

RECEIVED
Office Of Oil and Gas

NOV - 1 2023

WV Department of
Environmental Protection

11/17/2023



NOTES ON SURVEY

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

- LEGEND**
- Active Well
 - 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

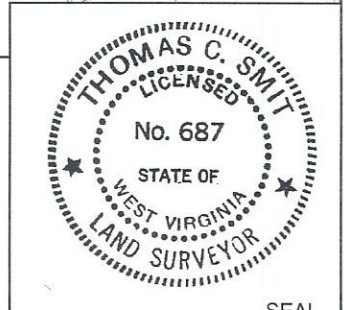
See Page 3 For Surface Owners and Lessors

() Denotes Location of Well on United States Topographic Maps

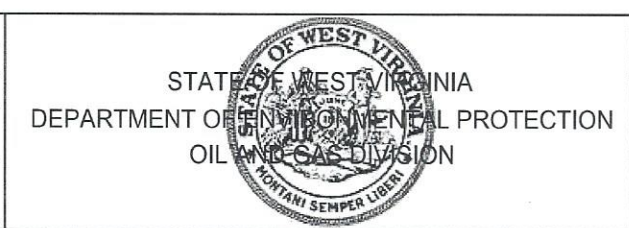


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smith
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 - 01946
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: 50.02 ±

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'

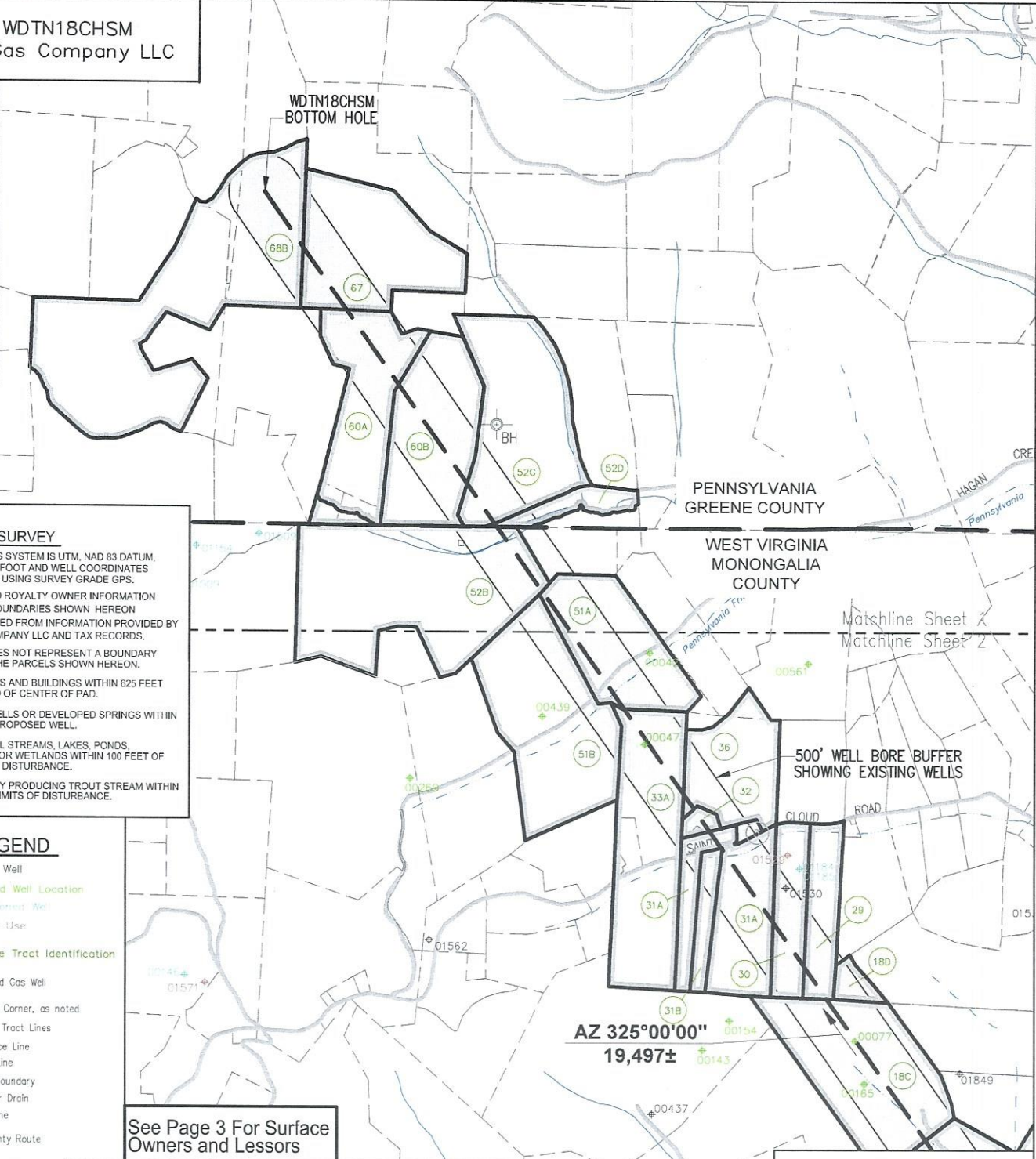
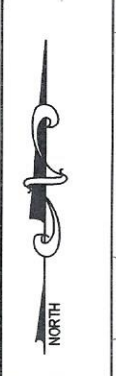
WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Horizon Vue Drive ADDRESS: 111 Avondale Road
Canonsburg, PA 15317 Fairmont, WV 26554

11/17/2023

LATITUDE 39° 45' 00" BH: 7,470'

LONGITUDE 80° 22' 30" BH: 5,870'

WDTN18CHSM
CNX Gas Company LLC



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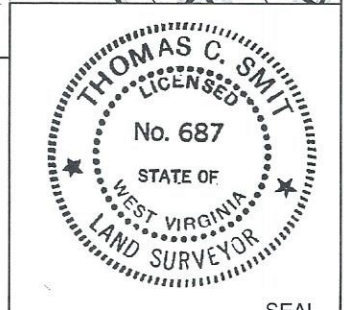
(⊕) Denotes Location of Well on United States Topographic Maps



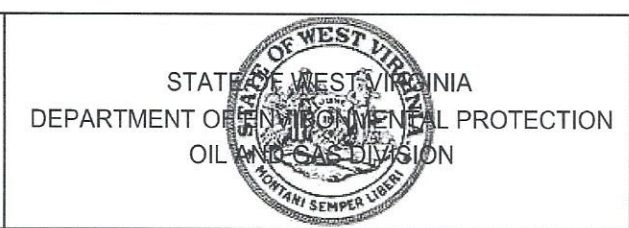
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L. L. S.

L. L. S. 687



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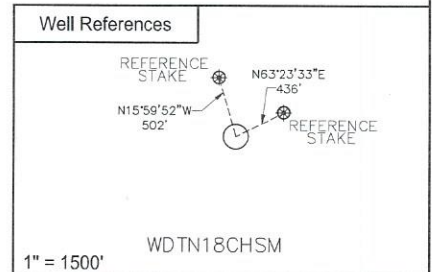
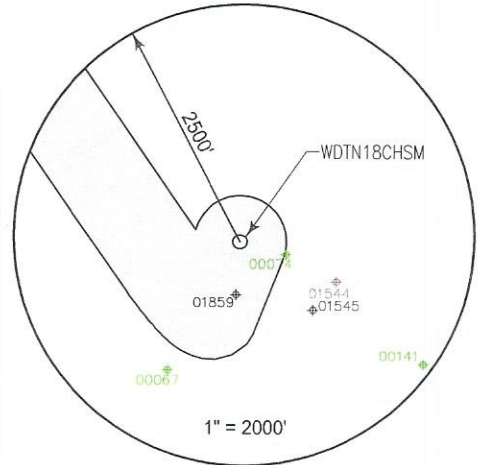
SURFACE OWNER: Consol Mining Company LLC ACREAGE: 46.75 ±
ROYALTY OWNER: Bounty Minerals, LLC LEASE NO: 189033000 ACREAGE: 59.02 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
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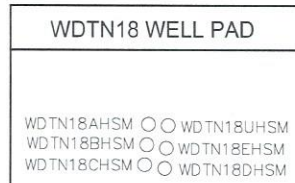
WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Horizon Vue Drive ADDRESS: 111 Avondale Road
Canonsburg, PA 15317 Fairmont, WV 26554

11/17/2023

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	
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	
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			



SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N:	4393667.66
E:	555017.62
NAD 83, WV NORTH	
N:	434980.191
E:	1726960.847
LAT/LON DATUM NAD 83	
LAT:	39°41'27.884"
LON:	80°21'30.046"
LANDING POINT	
UTM 17 NAD 83	
N:	4393584.82
E:	554768.98
NAD 83, WV NORTH	
N:	434721.999
E:	1726140.449
LAT/LON DATUM NAD 83	
LAT:	39°41'25.255"
LON:	80°21'40.509"
BOTTOM HOLE LOCATION (BHL)	
UTM 17 NAD 83	
N:	4398393.50
E:	551281.00
NAD 83, WV NORTH	
N:	450692.371
E:	1714958.710
LAT/LON DATUM NAD 83	
LAT:	39°44'02.004"
LON:	80°24'05.598"



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

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



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Canonsburg, PA 15317 Fairmont, WV 26554

11/17/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
8C	Consol Mining Company LLC	Pennie Mae Gurley	1-9-36
		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	
		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 Eglan	
		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. Gaspell 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. Hendeson 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	

11/17/2023



API WELL NO
47 - 061 - 01946
STATE COUNTY PERMIT

TRACT ID	SURFACE OWNER	LESSOR	PIN
9	Consol Mining Company LLC	Paul Reeder, single and Doris L. Wenck, single	1-9-32 1-9-33
		Consolidation Coal Company	
		CONSOL Mining Company LLC	
		CNX Resource Holdings LLC	
10	Consol Mining Company LLC	Eastern Associated Coal Corporation	1-9-37 1-9-38
18C	CNX RCPC LLC	Milan W. Cikovich, Jr. and Susan K. Cikovich	1-9-20
		Joseph Muto	
		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 Charles C. Shriver, w/h	
		Donna K. Wickham	
		Denise Mitchell	
		Marjorie Woods White	
		James R. Hennen, Jr.	
		Judy Kay Marshall Graham Marshall, h/w	
		Mary Virginia Davis	
		EQT Production Company	
		Donna R. Hennen	
		WOG Leasing, 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. and Christine Michelle Parktrustees of the Amended and Restated Milan W. Cikovich Testamentary Trust f/b/o Francine R. Cinkovich	
		Melissa Ann Hennen Limbaugh	
		Three Rivers Royalty II, LLC	
		Connie Jean Thompson Hennen	
		Ralph E. Hixenbaugh	
		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 Chruch	
		Nelson James Hennen, Jr.	
		Francis J. Waldron Hennen	
		Delores Ann Hennen Bryant	
		Clark H. Hennen	
		Ronald Fordyce	
		James Cox	
		Frank Hennen	
		Frank Hennen	
		Carol A. Irwin	
		Bernard A. Yocke	

11/17/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
18D	CNX RCPC LLC	Milan W. Cikovich, Jr. and Susan K. Cikovich	1-9-20
		Joseph Muto	
		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 Charles C. Shriver, w/h	
		Donna K. Wickham	
		Denise Mitchell	
		Marjorie Woods White	
		James R. Hennen, Jr.	
		Judy Kay Marshall Graham Marshall, h/w	
		Mary Virginia Davis	
		EQT Production Company	
		Donna R. Hennen	
		WOG Leasing, 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	
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		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	
		Frank Hennen	
		Frank Hennen	
		Carol A. Irwin	
		Bernard A. Yocke	
TRACT ID	SURFACE OWNER	LESSOR	PIN
19	Consol Mining Company LLC	Bounty Minerals, LLC	1-9-31
		John E. Stankola	

11/17/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
29	Consol Mining Company LLC	Roger Goodwin and Ilene Goodwin, his wife	1-9-5
		Consolidation Coal Company	
		CONSOL Mining Company LLC	
		CNX Resource Holdings LLC	
30	Seth Allen Moore	Douglas A. Church	1-9-4
		Terra Firma Company	
		CNX Land LLC	
31A	Melinda Tennant	Charles W. Long and Melinda Tennant, JTROS	1-9-3
31B	Consol Mining Company LLC	Deborah K. Metz and Terry D. Metz, w/h	1-9-3.2
		Consolidation Coal Company	
		CONSOL Mining Company LLC	
		CNX Resource Holdings LLC	
32	Mike J. Prendergast, et ux	Mike J. Prendergast and Thelma M. Predergast	1-9-3.1
33A	Robert L. Slider, et ux, 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	
		Linda Suzann Miller, individually and as trustee for the Generation-Skipping Trust FBO Linda Suzann Miller	
		Chrysanthe E. Taylor a/k/a Chris Taylor	
36	Wolfe Kids LLC	XTO Energy Inc.	1-2-6
		Shuman Inc.	
		Noumenon Corporation	
		O-Max Coal Company	
51A	Monongalia County Coal Resources Inc.	XTO Energy, Inc.	1-2-1
		Regina Schrimper	
		Latricia Estridge	
		Jon Walton	
		Ellis Shannon McCreadie	
		Anna Marie Boortz	
		Dora Irene Antel Six	
		Virginia L. Smalley	
		Judith Six	
		Alice Clara Conwell, a/k/a Alice Claire Conwell	
		Sarah E. Roark, f/k/a Sarah E. McCreadie	
		Clareen Frances Gomez	
		Gregory Joseph Kleinhenz	
		MP&G Legacy Holding LLC	
		Stanhagen Legal Limited Liability Company	
		Accord Land Services, LLC	
		Wild Thing Barnstormers, LLC	
		David M. McCallum	
		Marjorie Oakley	
		Timothy Michael Kleinhenz and Verallen M. Kleinhenz, h/w	
		Laura Lee Cook	
		William N. Richards, a/k/a William Nelson	
		Pamela Colleen Dillon	
		John C. Richards	
		Norita Hinerman	
		Phyllis Ann Richards	
		Douglas Grant Richards, a/k/a Grant Douglas Richards	
		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	

11/17/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
51B	Monongalia County Coal Resources Inc.	Wild Thing Barnstormers, LLC	1-2-1
		Accord land Services, LLC	
		Stanhagen Legal LLC	
		MP&G Legacy Holding, LLC	
		Regina Schrimper	
		Latricia Estridge	
		Jon Walton	
		Ellis Shannon McCreddie	
		Sarah E. Roark, f/k/a Sarah E. McCreddie	
		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	
TRACT ID	SURFACE OWNER	LESSOR	PIN
52B	Cucumber Tree Farm Inc.	Cucumber Tree Farm, Inc.	1-1-9
		Mountain V Oil & 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	

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Office Of Oil and Gas

NOV - 17 2023

WV Department of
Environmental Protection 11/17/2023

**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				

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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 *Sarah Weigand*
 Its: MANAGER PERMITTING SERVICES

Attachment - Form WW-6A-1 for WDTN18CHSM							
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 I, LLC Rice Drilling B, LLC	Rice Drilling B, LLC CNX Gas Company LLC	Assignment Assignment	133/752 159/809
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				
8C	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
				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/k/a Timothy S. Clovis	CNX Gas Company LLC	Not less than 1/8	1790/342
				Clinton Alan Clovis a/k/a Clint Clovis	CNX Gas Company LLC	Not less than 1/8	1790/567
				Robin L. Clovis Wade a/k/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 Surley	CNX Gas Company LLC	Not less than 1/8	1808/134
				Tiffany May Coker and Mitchell 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/k/a Eddie White and Patricia White, h/w	CNX Gas Company LLC	Not less than 1/8	1792/696
				Cherrie Anderson Yost a/k/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
				Mary Jo Morris	CNX Gas Company LLC	Not less than 1/8	1794/172
				Janet Eglund	CNX Gas Company LLC	Not less than 1/8	1804/623
				David Allen Jolliffe and Donna Sue A. Jolliffe, h/w	CNX Gas Company LLC	Not less than 1/8	1793/728
				Lisa Ellen May and Gary A. May, w/h	CNX Gas Company LLC	Not less than 1/8	1792/676
				William James Shannon	CNX Gas Company LLC	Not less than 1/8	1797/427
				Nancy Paulovicks	CNX Gas Company LLC	Not less than 1/8	1800/11
				Robert Owens and Earlene Owens, h/w	CNX Gas Company LLC	Not less than 1/8	1795/372
				Mary Ellen Bell	CNX Gas Company LLC	Not less than 1/8	1792/681
				Martha Ann Prince	CNX Gas Company LLC	Not less than 1/8	1792/670
				Charles R. Delaney	CNX Gas Company LLC	Not less than 1/8	1792/701
				Shawn Delaney	CNX Gas Company LLC	Not less than 1/8	1794/182
				Larry Delaney	CNX Gas Company LLC	Not less than 1/8	1794/192
				George William Cummins, Jr.	CNX Gas Company LLC	Not less than 1/8	1793/165
				Lee E. Delaney and Shannon Delaney, h/w	CNX Gas Company LLC	Not less than 1/8	1794/167
				Susan D. Delaney	CNX Gas Company LLC	Not less than 1/8	1795/362
				Joseph S. Delaney	CNX Gas Company LLC	Not less than 1/8	1795/404
				Michael S. Delaney and Susan Delaney, h/w	CNX Gas Company LLC	Not less than 1/8	1795/357
				Nola Chisler and Charles D. Chisler, w/h	CNX Gas Company LLC	Not less than 1/8	1792/286
				Jay Park and Carolyn S. Park, h/w	CNX Gas Company LLC	Not less than 1/8	1792/297
				Donna J. Glaspell a/k/a Donna J. Snyder	CNX Gas Company LLC	Not less than 1/8	1792/281
				Debra Lynn Lunsigen	CNX Gas Company LLC	Not less than 1/8	1792/711
				Cheryl Darlene Fordyce	CNX Gas Company LLC	Not less than 1/8	1797/412
				Robert Henderson Fordyce a/k/a Robert H. Fordyce and Patricia A. Fordyce, h/w	CNX Gas Company LLC	Not less than 1/8	1797/417
				Martha Sue Cvechko and John M. Cvechko, w/h	CNX Gas Company LLC	Not less than 1/8	1801/154
				Brenda Lou Painter f/k/a Brenda Lou Henderson	CNX Gas Company LLC	Not less than 1/8	1801/159
				Cheryl Lynn Stout	CNX Gas Company LLC	Not less than 1/8	1795/352
				James Michael Cale and Laura W. Cale, h/w	CNX Gas Company LLC	Not less than 1/8	1795/377
				John Smith	CNX Gas Company LLC	Not less than 1/8	1796/45
				Robert L. Smith a/k/a Bob Smith and Carol Smith, h/w	CNX Gas Company LLC	Not less than 1/8	1796/31
				William M. Smith a/k/a Bill Smith and Ruth C. Smith, h/w	CNX Gas Company LLC	Not less than 1/8	1796/40
				Greg Rowland and Brady Rowland, h/w	CNX Gas Company LLC	Not less than 1/8	1796/63
				Carol Neal	CNX Gas Company LLC	Not less than 1/8	1798/83
				William F. Henderson a/k/a William F. Henderson a/k/a Bill Henderson	CNX Gas Company LLC	Not less than 1/8	1798/88
				Steve Edward Henderson	CNX Gas Company LLC	Not less than 1/8	1798/68
				Matthew David Stiles	CNX Gas Company LLC	Not less than 1/8	1813/103
Mark Douglas Stiles, a/k/a Mark Douglas Stiles	CNX Gas Company LLC	Not less than 1/8	1814/123				
Marcia Stiles Batson	CNX Gas Company LLC	Not less than 1/8	1817/582				
James Aspinall and Marion Aspinall, h/w	CNX Gas Company LLC	Not less than 1/8	1810/532				
Robert S. Elliott	CNX Gas Company LLC	Not less than 1/8	1797/402				
Robert Scott Davis and Jennifer Davis, h/w	CNX Gas Company LLC	Not less than 1/8	1792/45				
Olen Ray Harker	CNX Gas Company LLC	Not less than 1/8	164/500				
Jo Ann Henderson	CNX Gas Company LLC	Not less than 1/8	164/500				
John Gaertner	CNX Gas Company LLC	Not less than 1/8	164/500				
Taylor Nicole Best	CNX Gas Company LLC	Not less than 1/8	164/500				
Kevin Russell Beasley	CNX Gas Company LLC	Not less than 1/8	164/500				
Magnus Audbjorn Sonofthor	CNX Gas Company LLC	Not less than 1/8	164/500				
Shannon Renee Sutton	CNX Gas Company LLC	Not less than 1/8	164/500				
Jessica Bergevine	CNX Gas Company LLC	Not less than 1/8	164/500				
Drema L. Howard	CNX Gas Company LLC	Fee	1789/722				
Arnold Lebron Uren	CNX Gas Company LLC	Fee	1806/86				
Victor A. White	CNX Gas Company LLC	Fee	1794/217				
CNX Resource Holding LLC	CNX Gas Company LLC	Fee	1820/493				
9	1-9-32 1-9-33	188616000	Consol Mining Company LLC	Paul Reeder, single and Doris L. Wenck, single	Consolidation Coal Company	Fee	1309/433
				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
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page

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10	1-9-37 1-9-38	203527000	Consol Mining Company LLC	Eastern Associated Coal Corporation	CNX Gas Company LLC	Fee	1267/233
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
18C	1-9-20	188573000	CNX RCPC LLC	Milan W. Cikovich, Jr. and Susan K. Cikovich	EQT Production Company	Not less than 1/8	1642/416 1644/14
				Joseph Muto	EQT Production Company	Not less than 1/8	1639/173
				Steven E. Hennen	EQT Production Company	Not less than 1/8	1629/750
				Gregory S. Clark	EQT Production Company	Not less than 1/8	1623/91
				Carl J. Woods	EQT Production Company	Not less than 1/8	1629/758
				Mark A. Clark	EQT Production Company	Not less than 1/8	1623/89
				Beverly A. Tonge	EQT Production Company	Not less than 1/8	1623/93
				Wanda Lee Shaffer	EQT Production Company	Not less than 1/8	1629/738
				Denzil L. Hennen and Bonnie L. Hennen, h/w	EQT Production Company	Not less than 1/8	1630/675
				Eugene D. Hennen	EQT Production Company	Not less than 1/8	1629/762
				Nancy K. Haddix	EQT Production Company	Not less than 1/8	1623/101
				Carolyn S. Moore and James E. Moore, w/h	EQT Production Company	Not less than 1/8	1622/447
				Charlie Fudge	EQT Production Company	Not less than 1/8	1635/643
				Mary Sargent Hennen	EQT Production Company	Not less than 1/8	1657/124
				Belinda T. Shriver and Charles C. Shriver, w/h	EQT Production Company	Not less than 1/8	1622/445
				Donna K. Wickham	EQT Production Company	Not less than 1/8	1629/742
				Denise Mitchell	EQT Production Company	Not less than 1/8	1629/746
				Marjorie Woods White	EQT Production Company	Not less than 1/8	1629/754
				James R. Hennen, Jr.	EQT Production Company	Not less than 1/8	1639/175
				Judy Kay Marshall Graham Marshall, h/w	EQT Production Company	Not less than 1/8	1647/824
				Mary Virginia Davis	EQT Production Company	Not less than 1/8	1647/822
				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	1639/552
				Don Fordyce	CNX Gas Company LLC	Not less than 1/8	1639/567
				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	1826/836
				Roger L. Pratt	CNX Gas Company LLC	Not less than 1/8	1808/146
				Milan W. Cikovich, Jr. and Christine Michelle Parktrustees of the Amended and Restated Milan W. Cikovich Testamentary Trust f/b/o Francine R. Cinkovich	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
				Ralph E. Hixenbaugh	CNX Gas Company LLC	Not less than 1/8	1645/418
				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	1644/109
				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	1636/803
				Dorothy Chohrach	CNX Gas Company LLC	Not less than 1/8	1636/813
				Patricia A. Cooney	CNX Gas Company LLC	Not less than 1/8	1639/562
				Nancy Irwin Slinger	CNX Gas Company LLC	Not less than 1/8	1636/808
				James C. Irwin	CNX Gas Company LLC	Not less than 1/8	1639/572
				Francis J. Waldron Hennen	CNX Gas Company LLC	Fee	1638/794
				Delores Ann Hennen Bryant	CNX Gas Company LLC	Fee	1640/737
				Clark H. Hennen	CNX Gas Company LLC	Fee	1650/594
				Ronald Fordyce	CNX Gas Company LLC	Fee	1640/741
				James Cox	CNX Gas Company LLC	Fee	1653/690
				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	1638/798
				Bernard A. Yocke	CNX Gas Company LLC	Fee	1639/588
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
18D	1-9-20	188573000	CNX RCPC LLC	Milan W. Cikovich, Jr. and Susan K. Cikovich	EQT Production Company	Not less than 1/8	1642/416 1644/14
				Joseph Muto	EQT Production Company	Not less than 1/8	1639/173
				Steven E. Hennen	EQT Production Company	Not less than 1/8	1629/750
				Gregory S. Clark	EQT Production Company	Not less than 1/8	1623/91
				Carl J. Woods	EQT Production Company	Not less than 1/8	1629/758
				Mark A. Clark	EQT Production Company	Not less than 1/8	1623/89
				Beverly A. Tonge	EQT Production Company	Not less than 1/8	1623/93
				Wanda Lee Shaffer	EQT Production Company	Not less than 1/8	1629/738
				Denzil L. Hennen and Bonnie L. Hennen, h/w	EQT Production Company	Not less than 1/8	1630/675
				Eugene D. Hennen	EQT Production Company	Not less than 1/8	1629/762
				Nancy K. Haddix	EQT Production Company	Not less than 1/8	1623/101
				Carolyn S. Moore and James E. Moore, w/h	EQT Production Company	Not less than 1/8	1622/447
				Charlie Fudge	EQT Production Company	Not less than 1/8	1635/643
				Mary Sargent Hennen	EQT Production Company	Not less than 1/8	1657/124
				Belinda T. Shriver and Charles C. Shriver, w/h	EQT Production Company	Not less than 1/8	1622/445
				Donna K. Wickham	EQT Production Company	Not less than 1/8	1629/742
				Denise Mitchell	EQT Production Company	Not less than 1/8	1629/746
				Marjorie Woods White	EQT Production Company	Not less than 1/8	1629/754
				James R. Hennen, Jr.	EQT Production Company	Not less than 1/8	1639/175
				Judy Kay Marshall Graham Marshall, h/w	EQT Production Company	Not less than 1/8	1647/824
				Mary Virginia Davis	EQT Production Company	Not less than 1/8	1647/822
				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	1639/552
				Don Fordyce	CNX Gas Company LLC	Not less than 1/8	1639/567
				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	1826/836
				Roger L. Pratt	CNX Gas Company LLC	Not less than 1/8	1808/146
				Milan W. Cikovich, Jr. and Christine Michelle Parktrustees of the Amended and Restated Milan W. Cikovich Testamentary Trust f/b/o Francine R. Cinkovich	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
				Ralph E. Hixenbaugh	CNX Gas Company LLC	Not less than 1/8	1645/418
				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	1644/109
				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	1636/803
				Dorothy Chohrach	CNX Gas Company LLC	Not less than 1/8	1636/813
				Patricia A. Cooney	CNX Gas Company LLC	Not less than 1/8	1639/562
				Nancy Irwin Slinger	CNX Gas Company LLC	Not less than 1/8	1636/808
				James C. Irwin	CNX Gas Company LLC	Not less than 1/8	1639/572

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Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
			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	1664/181
			David M. McCallum		CNX Gas Company LLC	Not less than 1/8	1805/450
			Michael Stephen Kleinhenz		CNX Gas Company LLC	Not less than 1/8	1751/656
			Mark Anthony Kleinhenz		CNX Gas Company LLC	Not less than 1/8	1826/525
			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 Arlene Coffey		CNX Gas Company LLC	Fee	1696/629
			Monongalia County Coal Company		CNX Gas Company LLC	Fee	1660/124
528	1-1-9	239984000	Cucumber Tree Farm Inc.	Cucumber Tree Farm, Inc.	Mountain V Oil & Gas, Inc.	Not less than 1/8	1328/406
				Mountain V Oil & 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	WV505
				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

Page 5 of 5

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

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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



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 ⁰⁰
B	2140043930	7500 ⁰⁰
C	2140043931	7500 ⁰⁰
D	2140043932	7500 ⁰⁰
E	2140043933	7500 ⁰⁰

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Environmental Protection

11/17/2023



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: WDTN18CHSM- *MODIFICATION* Horizontal Drilling Permit Application

To Whom It May Concern:

CNX Gas Company LLC (CNX) is requesting a modification to extend the WDTN18CHSM 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 WDTN18CHSM Modification application and have enclosed a check for: \$15,150.00. CNX previously permitted the "WDTN18CHSM" 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

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WV Department of
Environmental Protection

11/17/2023