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west virginia department of environmental protection

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

Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Wednesday, February 14, 2018  
WELL WORK PERMIT  
Horizontal 6A / New Drill

CNX GAS COMPANY LLC  
POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for WDTN5IHSM  
47-061-01793-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief

Operator's Well Number: WDTN5IHSM  
Farm Name: JOHN M. WISE, ET UX., ET AL.  
U.S. WELL NUMBER: 47-061-01793-00-00  
Horizontal 6A / New Drill  
Date Issued: 2/14/2018

Promoting a healthy environment.

02/16/2018

## PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

## PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov).

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 Monongalia Battelle Wadestown  
Operator ID County District Quadrangle

2) Operator's Well Number: WDTN5IHSM Well Pad Name: WDTN5

3) Farm Name/Surface Owner: Wise Public Road Access: CR6 Wise Run

4) Elevation, current ground: 1412' Elevation, proposed post-construction: 1390'

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

(b) If Gas Shallow  Deep   
Horizontal

6) Existing Pad: Yes or No  Yes  No

*YOK 2/1/2018*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target formation is Marcellus Shale @ 7760'-7830' TVD, 70' thick, expected formation pressure ~4600 psi

8) Proposed Total Vertical Depth: 7830' TVD at TD (dependent upon formation dip)

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

10) Proposed Total Measured Depth: 11,700' MD at TD

11) Proposed Horizontal Leg Length: 3200'

12) Approximate Fresh Water Strata Depths: 25, 125, 428, 591; coal seam depths 709'-712'; 970'-976'; 1058'-1062'; 1063'-1070'

13) Method to Determine Fresh Water Depths: Depth of bit when water shows in flowline or depth when misting is required

14) Approximate Saltwater Depths: 2180', 2625'

15) Approximate Coal Seam Depths: 709'-712'; 970'-976'; 1058'-1062'; 1063'-1070'

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

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

*Rec 2/1/18/18*

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	129	100	96 / CTS
Fresh Water	13.375	New	J-55	54.5	1409	1380	959 / CTS
Coal	13.375	New	J-55	54.5	1409	1380	959 / CTS
Intermediate	9.625	New	J-55	36.0	3084	3055	1025 / CTS
Production	5.5	New	P-110	20.0	11729	11700	1980 / TOC @ 2555
Tubing	2.375	New	J-55	4.7	Above assumes RF=29'	TBD	N/A
Liners	N/A						

*MGR 2/1/2018*

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

PACKERS

Kind:	N/A			
Sizes:				
Depths Set:				

*Rec 2/1/18 ja*

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 46.90

22) Area to be disturbed for well pad only, less access road (acres): 5.4

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

Air sections are typically vertical holes - will ensure the hole is clean at section TD prior to TOOH to run casing (may require mist and/or soap to clean the hole). For the production hole - 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.

*Dec 21/18 go*



**DRILLING WELL PLAN**  
**WDTN5IHSM (Marcellus HZ)**  
**Marcellus Shale Horizontal**  
**Monongalia County, WV**

Ground Elevation		1390' GL Elevation		WDTN5IHSM SHL		N 440491.084, E 1764431.989 (NAD27)			
Azimuth		314°		WDTN5IHSM LP		N 440662.613, E 1763805.03 (NAD27)			
WELLBORE DIAGRAM		WDTN5IHSM BHL		N 442865.319, E 1761503.083 (NAD27)					
HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
24"	20" L/S	Conductor	100	100	AIR	To Surface	N/A	N/A	Stabilize surface fill/soil
17-1/2"	13-3/8" 54.5# J-55 BTC	Shallowest Fresh Water		125	AIR / FW Mist	15.6 ppg Class A + 1% to 3% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface	Centralize every 3rd joint from shoe to surface Bow spring centralizers	Ensure the hole is clean at section TD	Set through fresh water zones Set through coal zones Cemented to surface  13-3/8" shoe NOT to be set deeper than ground level
		Waynesburg 1 Coal		739					
		Sewickley Coal		970					
		Roof Coal		1058					
		Pittsburgh Coal		1063					
		FW/Coal Casing	1380	1380					
12-1/4"	9-5/8" 36.0# J-55 LTC	Salt Sand		2115	AIR / Soap	15.6 ppg Class A + 0% to 2% CaCl2 + 1/4 pps Flake 20% OH Excess Yield = 1.19 TOC @ surface	Centralize every 3rd joint from shoe to surface Bow spring centralizers	Soap the hole as needed and ensure the hole is clean at section TD	Set through potential salt water zones Cemented to surface  Casing to be set ~200'-250' below the Big Injun base
		Big Lime		2475					
		Big Injun		2555					
		Price		2805					
		Intermediate Casing	3055	3055					
8-3/4" Tangent  5-1/2" Curve & Lateral	5-1/2" 20.0# P-110 VAR	50 Foot		3255	AIR  12.0-12.5 ppg SOB 10% OH Excess Yield = 1.07 TOC @ >= 500' above 9-5/8" shoe	15.2 ppg Class H 50.50 Class H Poz with additives (retarder, suspension agent, gas block, defoamer, fluid loss, extender, etc.)	Centralize every joint from shoe to KOP - then every 3rd joint from KOP to TOC  Single-piece/rigid bow centralizers	Once at TD, circulate at max flowrate with max rotation until shakers clean-up (typically requires multiple bottoms-up)  Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement	Note: Actual centralizer placement may be changed due to hole conditions  Note: Actual cement blends may vary slightly depending upon service company utilized
		Gordon		3390					
		Fifth		3515					
		Bayard		3565					
		Eks		5165					
		Cashagua		7360					
		Burkett		7505					
		Tully		7530					
		Hamilton		7565					
		Marcellus		7760					
		Production Casing	11700	7830					

LP @ +/- 7830' TVD

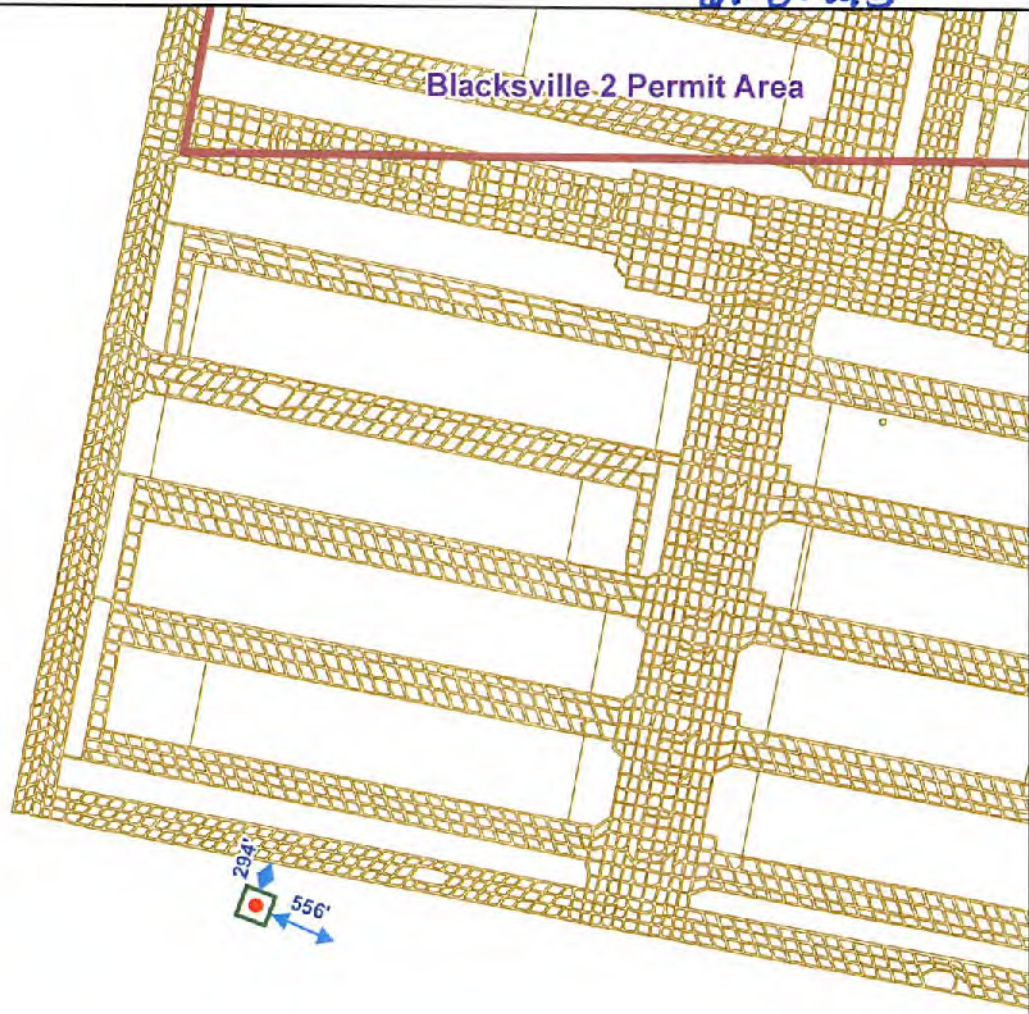
8-3/4" x 8-1/2" Hole - Cemented Long String  
5-1/2" 20.0# P-110 VAR

+/- 3200' Lateral

TD @ +/- 7830' TVD

161-0793

### Blacksville-2 Permit Area



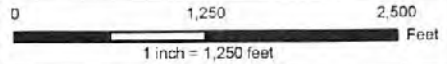
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### Legend

- Well Location
- Mine Workings
- 200'x200' SQ Coal Block
- Mined Out
- Remaining Coal
- Active Permit



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Prepared By: ljm0vzy
Original Date: 11/6/2017
Revision No:
Revision Date:

**CONSOL ENERGY**  
Canonsburg, PA

**CNXGas Well  
WDTN5IHSM  
Mine Plan Map**  
02/16/2018



## WDTN5 Cement Additives

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

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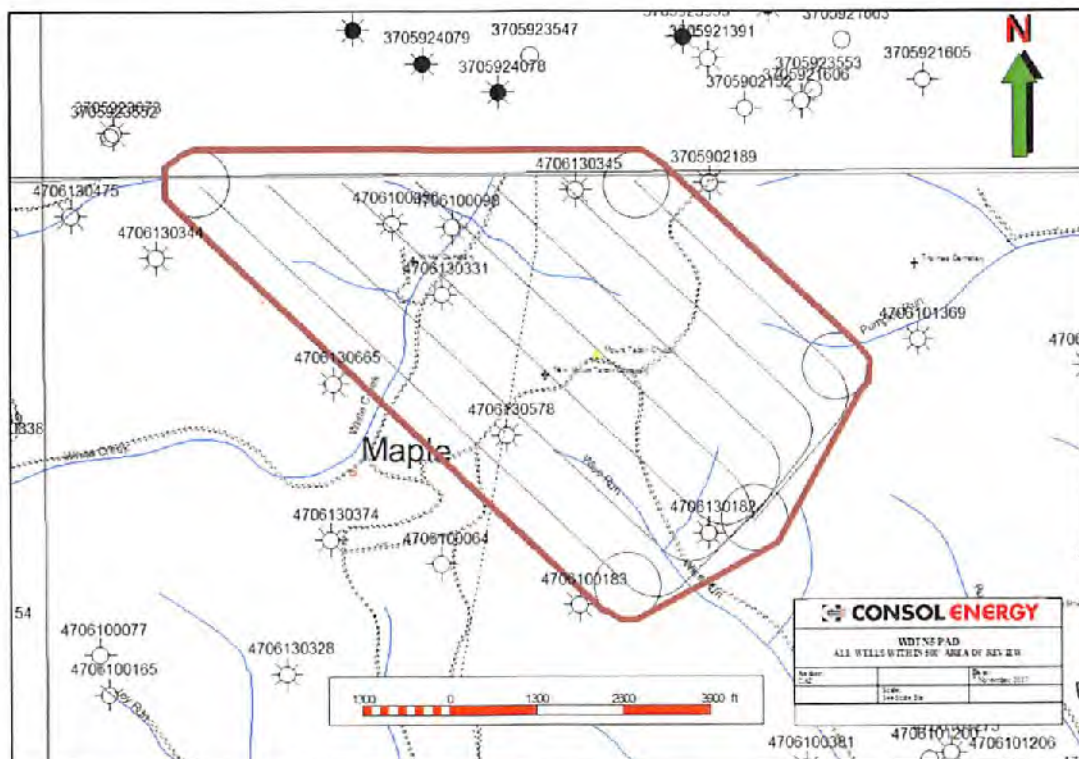
### WDTN5 Pad Frac - SOG Review

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

The Marcellus Shale of the Wadestown area is found at an approximate True Vertical Depth (TVD) of 7900'. In the Wadestown area, there were very few wells that produced from formations deeper than the Bayard Sand (approximately 3500'). As a matter of fact, a review of all SOG wells with the 500' buffer revealed that there are no producing wells and all have been plugged. Based on our experience with frac communication and shallow wells, CONSOL Geology feels that it is highly unlikely for communication to occur with any wells producing in the area above the WDTN5 Pad.

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

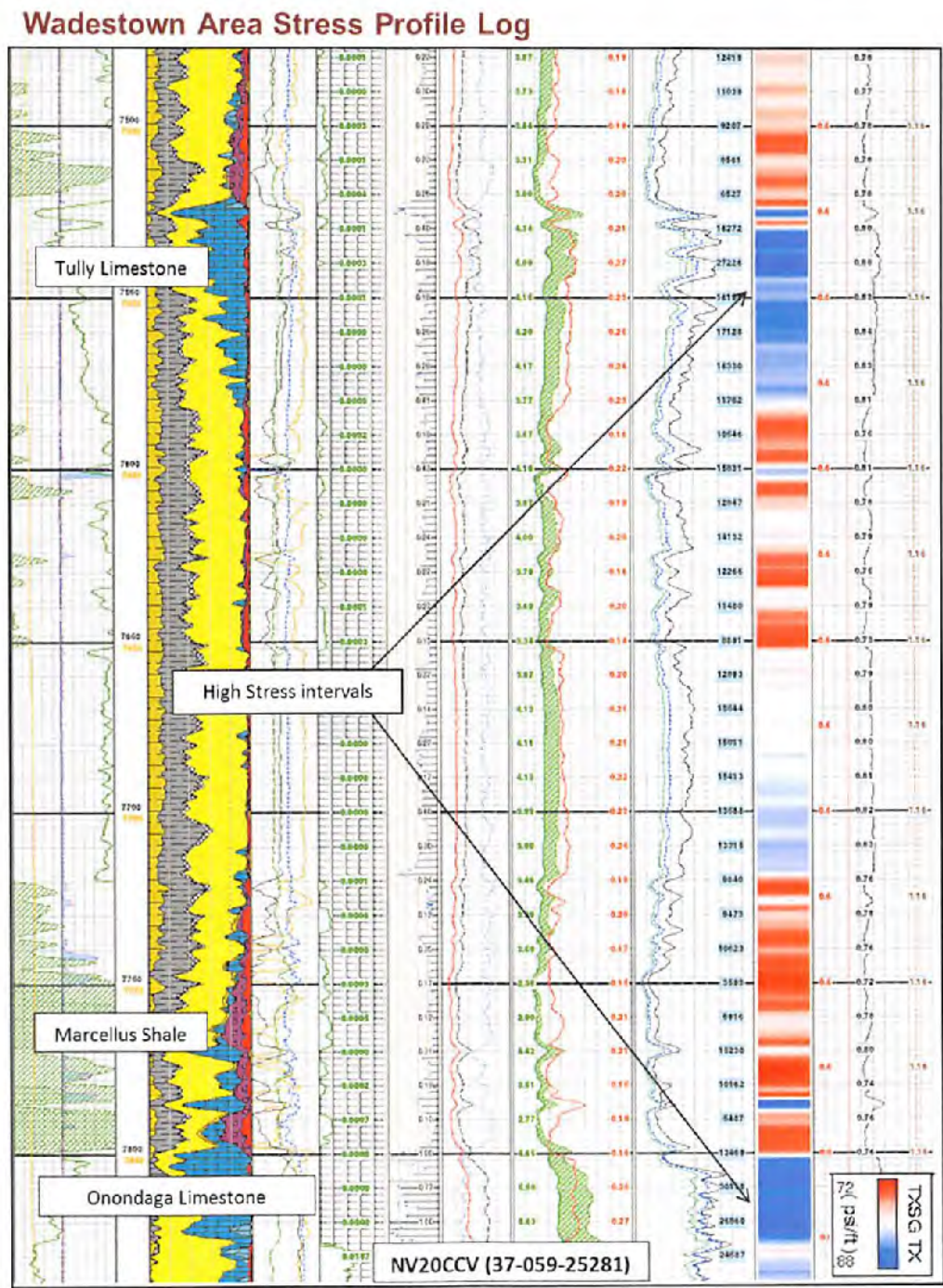
Figure 1. Only 6 wells lie within a 500' buffer around the WDTN5 Pad and all have been plugged. No known SOG Communication events have occurred in this area.



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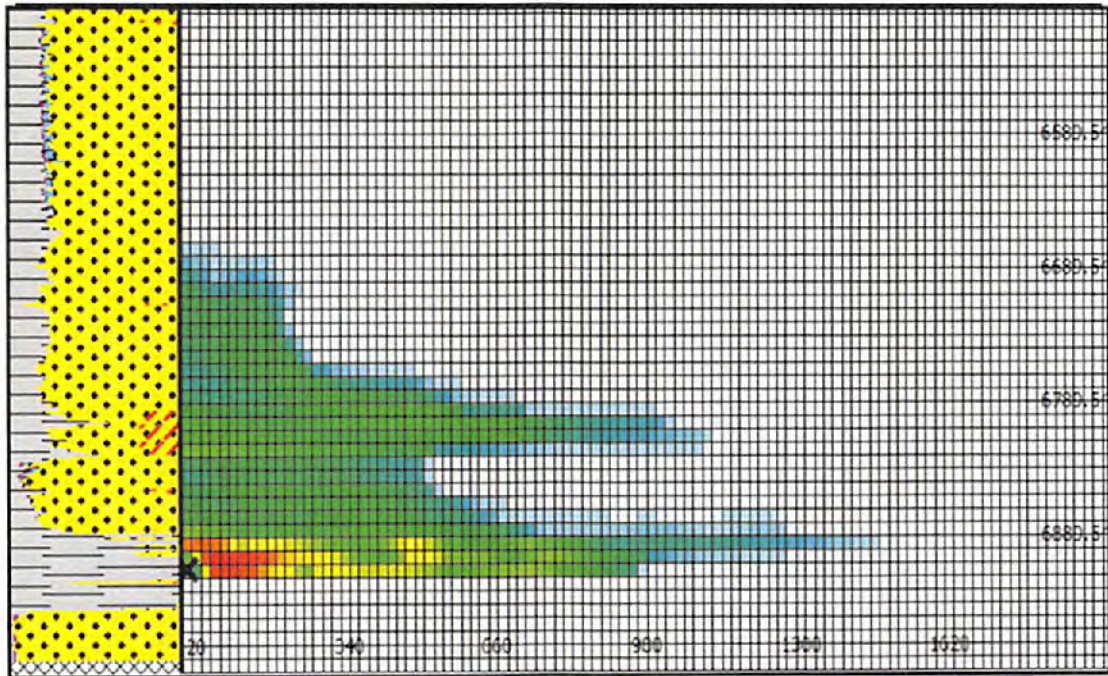
Figure 2. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the Wadestown Area Stress Profile log.



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

**SOG Communication: OXFD13CHS Frac Simulation**



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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61-01793

WDTN5 Pad Frac SOG Review / CRSD Review Tuesday, November 7, 2017

API	OPERATOR	WELL NAME	WELL #	STATUS	TD	STATUS COMMENTS	DISTANCE FROM LATERAL	PERMIT DATE
4706130345	Manufacturers Light and Heat Company	Hennen #1	1	P&A	3448	Plugged 3/15/1948	50'	1926
4706100098	Carnegie Production Company	Sarah J. White	1-555	P&A	3248	Plugged 1938	130'	1916
4706100056	Manufacturers Light and Heat Company	Alex White	2	P&A	3475	Plugged 11/23/1949	40'	1916
4706130331	Manufacturers Light and Heat Company	Thomas White Heirs	3	P&A	3331	Plugged 10/14/1946	220'	1925
4706130578	Equitable Gas Company	Jasper Shriver	5039	P&A	3154	Plugged 12/22/1953	330'	1913
4706130182	Pittsburgh & WV Gas	Zoa Wise	5375	P&A	3558	Plugged 1938	170'	1928

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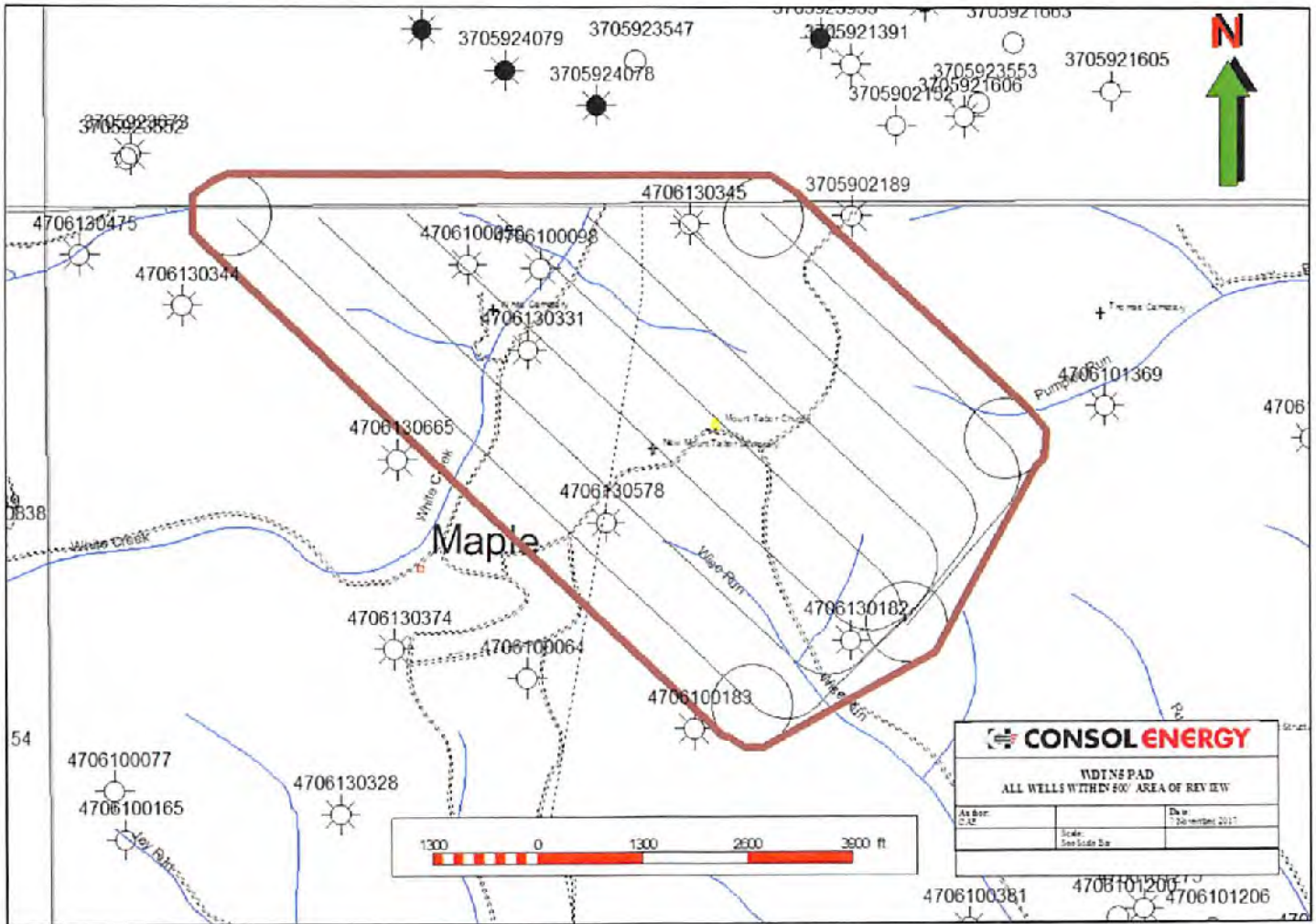


## GEOLOGICAL PROGNOSIS

WELL NAME:	WDTN5ZVS	
STATE:	WEST VIRGINIA	
COUNTY:	MONONGALIA	
DISTRICT:	BATTELLE	GEOLOGIST: CAE
7.5' QUADRANGLE:	WADESTOWN	DATE SUBMITTED: 10/4/2017
PROSPECT AREA:	WADESTOWN	TARGET FM: MARCELLUS
ELEVATION:	1390'	PROJECTED TD: 7830'

<u>ESTIMATED DEPTHS:</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>GAS CHECKS</u>
WAYNESBURG 1 COAL	709	712	
SEWICKLEY COAL	970	976	
ROOF COAL	1058	1062	
PITTSBURGH COAL	1063	1070	
SALT SAND	2115	2205	2250
BIG LIME	2475	2565	
BIG INJUN SAND	2565	2805	2850
PRICE FM	2805	3255	
50 FT SAND	3255	3335	3350
GORDON SAND	3390	3480	3500
5TH SAND	3515	3555	3560
BAYARD SAND	3565	3575	3600
ELKS	5165	5700	4500
CASHAQUA	7360	7505	5500
BURKET SHALE	7505	7530	6500
TULLY LIMESTONE	7530	7565	7000
HAMILTON SHALE	7565	7760	7600
MARCELLUS SHALE	7760	7830	
TD		7830	TD AND AFTER 4.5" CSG
FRESH WATER:	25'		SALT WATER: 2180, 2625

# WDTN5 PAD WITH 500' AREA OF REVIEW



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

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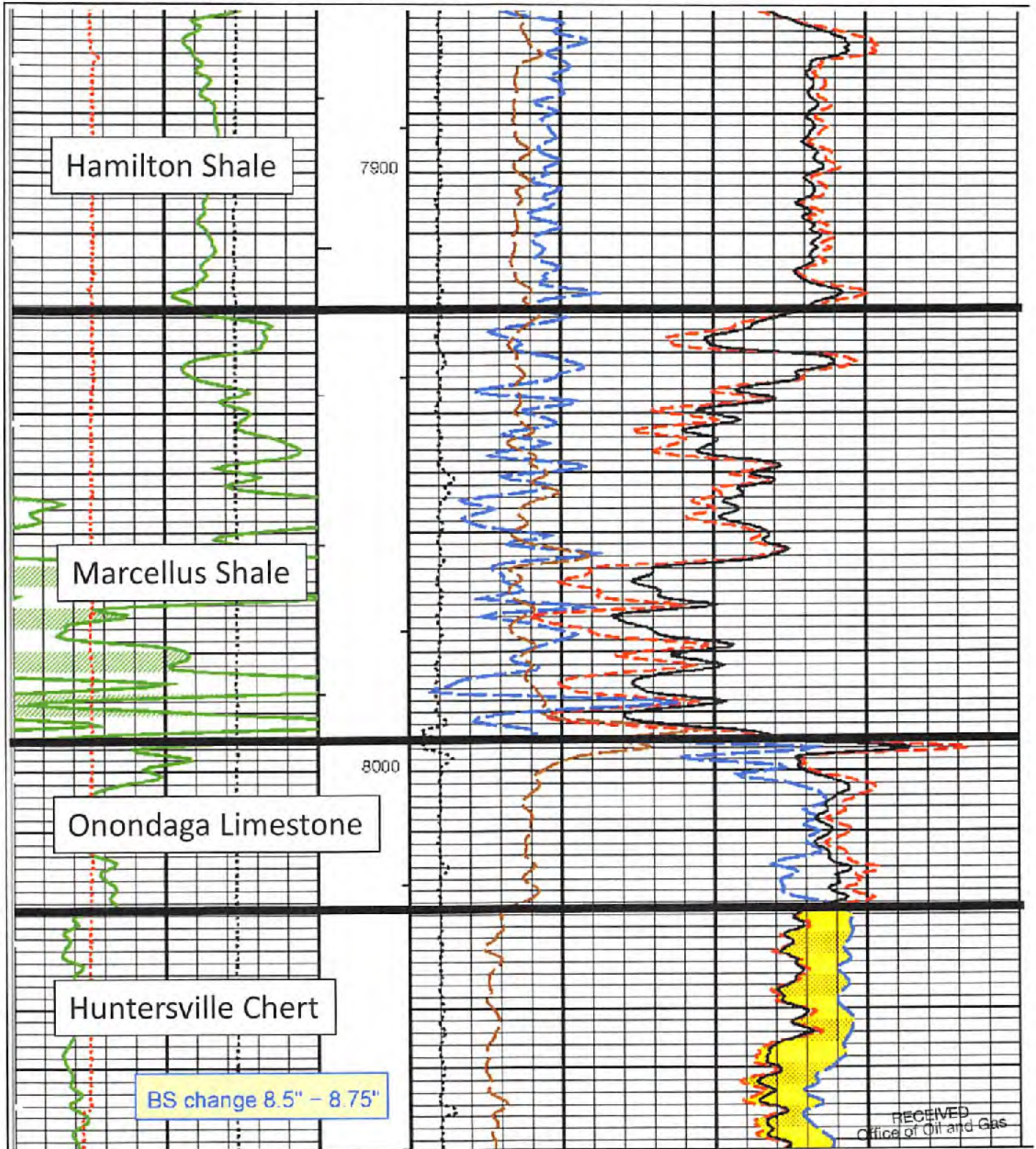
API	OPERATOR	WELL NAME	WELL #	STATUS	TD	STATUS COMMENTS	DISTANCE FROM	
							LATERAL	PERMIT DATE
4706130345	Manufacturers Light and Heat Company	Hennen #1	1	P&A	3448	Plugged 3/15/1948	50'	1926
4705100098	Carnegie Production Company	Sarah I. White	1-555	P&A	3248	Plugged 1938	130'	1916
4706100056	Manufacturers Light and Heat Company	Alex White	2	P&A	3475	Plugged 11/23/1949	40'	1916
4706130331	Manufacturers Light and Heat Company	Thomas White Heirs	3	P&A	3331	Plugged 10/14/1946	220'	1925
4706130578	Equitable Gas Company	Jasper Shriver	5039	P&A	3154	Plugged 12/22/1953	330'	1913
4706130182	Pittsburgh & WV Gas	Zoa Wise	5375	P&A	3558	Plugged 1938	170'	1928

All SOG wells above the WDTN5 Marcellus pad have been plugged and were less than 3600' TD.

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



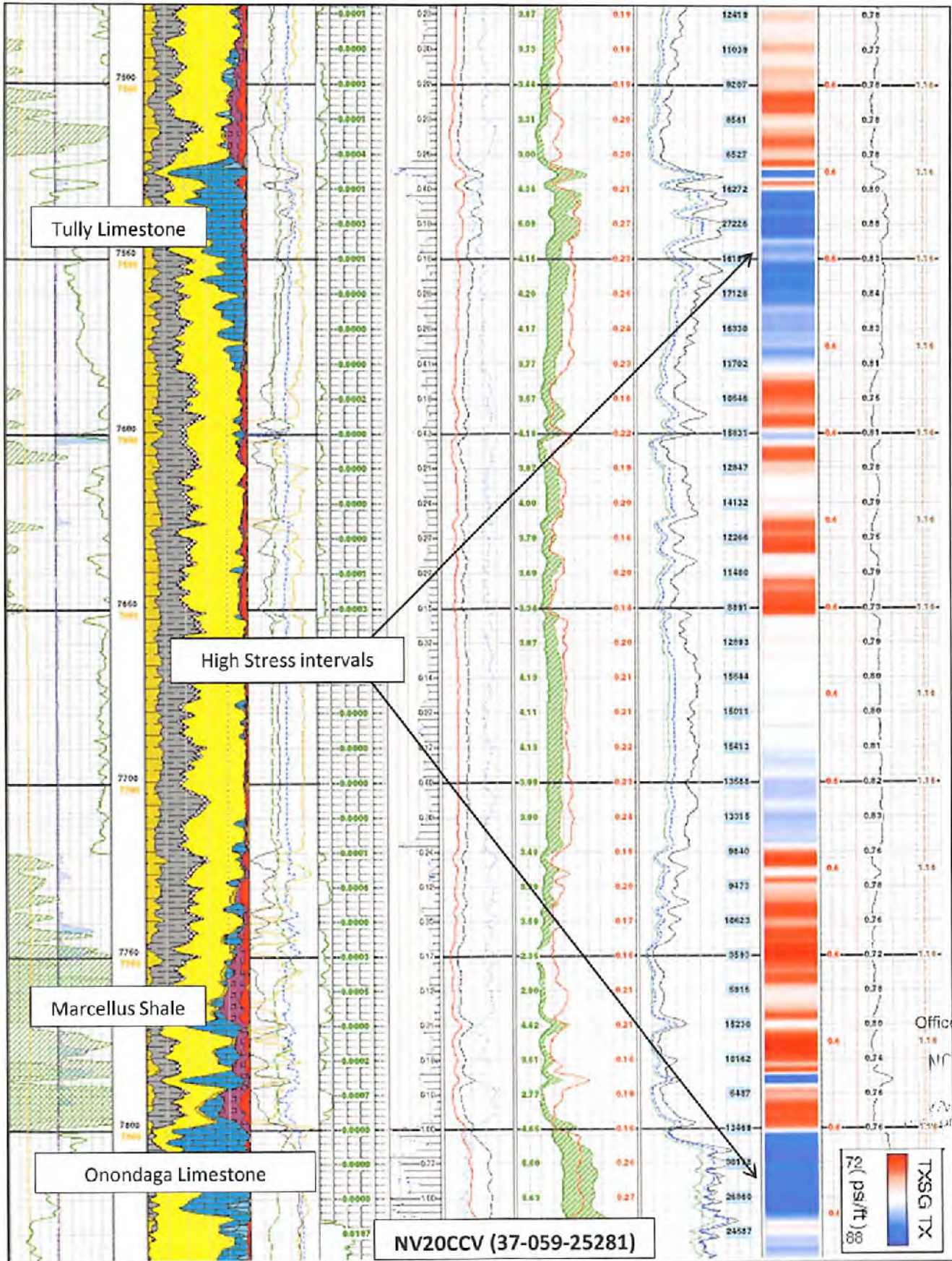
- The Tully Limestone in conjunction with the Hamilton Shale is the confining layer for the Marcellus Shale frac.



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### Wadestown Area Stress Profile Log



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WW-9  
(4/16)

API Number 47 - 61 - 01793  
Operator's Well No. WDTN5IHSM

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company LLC OP Code 494458046  
Watershed (HUC 10) Dunkard Creek Quadrangle Wadestown, WV

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: No Pits

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 47-001-00561, 47-097-01514, 47-097-01613, 34-013-2-0609 )
- Reuse (at API Number WDTN2 Wells (APIs TBD) )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No pits )

Will closed loop system be used? If so, describe: Yes

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.  
Vertical: air, lime, spud/surface to curve, lds. (off part) (KOP). Horizontal: synthetic oil-based mud (SOBM) from curve ROP to lateral TD

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Bactericide, Polymers, and weighting agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.  
Land Application of only soil conductor cuttings, all other cuttings will be taken to an approved Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? See attached list.

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Erika Whetstone

Company Official (Typed Name) Erika Whetstone

Company Official Title Manager - Gas Permitting

Subscribed and sworn before me this 31<sup>st</sup> day of January, 20 18

Judy L Snyder  
My commission expires 10-31-2021

Commonwealth of Pennsylvania  
Notary Public  
Notarial Seal  
JUDYL SNYDER - Notary Public  
CECIL TWP, WASHINGTON COUNTY  
My Commission Expires Oct 31, 2021

02/16/2018

Disclaimer: Vendors have been approved for the below category by ENV. UPDATED AGREEMENT with MSCM MUST BE CONFIRMED.

HSE APPROVED NON-HAZARDOUS WASTE DISPOSAL FACILITIES (version 05-23-2016)

Republic Services (Allied Waste) Industrial Landfill		Gas Specific Waste Streams			Other Accepted Waste Streams									Contact Information
Landfill	Location	Drill * Cuttings	Waste Liquor	Waste Bcline	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	
McLean County	Bloomington	IL	X	X	X	X	X	X	X	X	X	X	X	
Elk-Coles County	Charleston	IL	X	X	X	X	X	X	X	X	X	X	X	
Rockyford Regional	Dermott	IL	X	X	X	X	X	X	X	X	X	X	X	
Southern Illinois Regional	De Soto	IL	X	X	X	X	X	X	X	X	X	X	X	
Lee County	Dixon	IL	X	X	X	X	X	X	X	X	X	X	X	
Upper Rock Island	East Moline	IL	X	X	X	X	X	X	X	X	X	X	X	
Blond County	Greenville	IL	X	X	X	X	X	X	X	X	X	X	X	
Lincoln	Hopewell	IL	X	X	X	X	X	X	X	X	X	X	X	
Landskamp	Lakelle	IL	X	X	X	X	X	X	X	X	X	X	X	
Lakefield-Hillabern	Litchfield	IL	X	X	X	X	X	X	X	X	X	X	X	
Environmental	Morris	IL	X	X	X	X	X	X	X	X	X	X	X	
Livingston	Pontiac	IL	X	X	X	X	X	X	X	X	X	X	X	
Roxana	Roxana	IL	X	X	X	X	X	X	X	X	X	X	X	
Sangamon Valley	Springfield	IL	X	X	X	X	X	X	X	X	X	X	X	
Demion Valley	Frankfort	IL	X	X	X	X	X	X	X	X	X	X	X	
Blue Ridge	Revere	KY	X	X	X	X	X	X	X	X	X	X	X	
Morehead	Morehead	KY	X	X	X	X	X	X	X	X	X	X	X	
Green Valley	Rush	KY	X	X	X	X	X	X	X	X	X	X	X	
Cherokee Run	Hellefontaine	OH	X	X	X	X	X	X	X	X	X	X	X	
Williams County	Bryan	OH	X	X	X	X	X	X	X	X	X	X	X	
County Environmental	Carey	OH	X	X	X	X	X	X	X	X	X	X	X	
Celina	Celina	OH	X	X	X	X	X	X	X	X	X	X	X	
Carbon/Inestore**	Coshocton	OH	X	X	X	X	X	X	X	X	X	X	X	
Countywide Landfill**	East Sparta	OH	X	X	X	X	X	X	X	X	X	X	X	
Lorain County	Oberlin	OH	X	X	X	X	X	X	X	X	X	X	X	
Oakland Marsh	Shiloh	OH	X	X	X	X	X	X	X	X	X	X	X	
Imperial	Imperial	VA	X	X	X	X	X	X	X	X	X	X	X	
Comstock	Monticello	VA	X	X	X	X	X	X	X	X	X	X	X	
Henrieville	Lawrenceville	VA	X	X	X	X	X	X	X	X	X	X	X	
King and Queen	Little Plymouth	VA	X	X	X	X	X	X	X	X	X	X	X	
Old Dominion	Richmond	VA	X	X	X	X	X	X	X	X	X	X	X	
Sycamore	Harrison	WV	X	X	X	X	X	X	X	X	X	X	X	
Short Creek	Wheeling (Short Creek)	WV	X	X	X	X	X	X	X	X	X	X	X	
Carter Valley	Church Hill	TN	X	X	X	X	X	X	X	X	X	X	X	

317-921-1667 or 480-627-2700  
1-800-631-0215

Jack Palermo:  
work: 330-536-8013  
cell: 330-806-9660

Barbara Harman:  
work: 330-536-8013 x 120  
cell: 330-423-7267

Waste Management Industrial Landfills		Gas Specific Waste Streams			Other Accepted Waste Streams								Contact Information	
Landfill	Location	Drill * Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	
Arden Landfill	Washington	PA	X	X	X	X	X	X			X	X	X	Scott Allen: 412-604-2256
South Hills (Armon)	South Park	PA	X	X	X	X	X	X			X	X	X	
Kelly Run	Elizabeth	PA	X	X	X	X	X	X			X	X	X	
Valley Landfill	Irwin	PA	X	X	X	X	X	X			X	X	X	
Evergreen Landfill	Blairsville	PA	X	X	X	X	X	X	X	X	X	X	X	
Charleston Landfill (Kanawha County)	Charleston	WV	X	X	X	X	X	X			X		X	
Midway Landfill	Bridgetown	WV	X	X	X	X	X	X	X	X	X	X	X	
Northwestern Landfill	Parkersburg	WV	X	X	X	X	X	X			X	X	X	
S&S Grading Landfill	Clarksburg	WV	X	X	X	X	X	X			X	X	X	
American Landfill	Waynesburg	OH	X	X	X	X	X	X	X	X	X	X	X	
Suburban RDF	Glenford	OH	X	X	X	X	X	X	X	X	X	X	X	Patty Landolt: 262-532-8001 John Miller: 1-800-963-4776
Coshocton Landfill**	Coshocton	OH	X	X	X	X	X	X			X	X	X	
Mahoning Landfill	New Springfield	OH	X	X	X	X	X	X			X	X	X	

Additional Landfills		Gas Specific Waste Streams			Other Accepted Waste Streams								Contact Information	
Landfill	Location	Drill * Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	
Westmoreland Waste (WWLC Group)	111 Conner Lane, Belle Vernon, PA 15012	PA	X	X	X	X	X	X	X	X		X	X	Mike Horne: 412-552-4427 Mark Thomas: 724-925-7694
MAX Environmental (Hager Facility)	200 Max Drive, Dodger, PA 15019	PA	X	X	X	X	X	X				X	X	
MAX Environmental (Yukon Facility)	233 MAX Lane, Yukon, PA 15678	PA	X	X	X	X	X	X				X	X	Carl Spadaro: 412-343-1900 cell: 412-445-9789
Apex Sanitary Landfill (Apex Environmental)	11 County Road 78, Amsterdam, Ohio 43003	OH	X	X	X	X	X	X				X	X	Joe Teterick: 740-275-2887 jost@eds-company.com
Rumpke Mt. Sterling (Rumpke Consolidated)	30 Larson Rd, Jeffersonville, KY 40337	KY	X	X	X	X	X		X	X			X	Carl Walter: 513-623-2471
Laurel Ridge Landfill (Waste Connections of KY)	3612 E. State Highway 552, Liberty, KY 40740	KY	X	X	X	X	X		X	X	X		X	Bruce Crouch: Work: 606-864-7996 Cell: 606-219-1251
Advanced Disposal	Chestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458	PA	X	X	X	X	X	X					X	Tony Labenne 6181 Route 219, Brockway, PA 15824 814-590-9006
	Greentree Landfill, 635 Toby Rd., Kersey, PA	PA	X	X	X	X	X	X					X	
	Montoller Landfill, 7035 Glades Pike Rd., Somerset, PA	PA	X	X	X	X	X	X					X	

\*\* Ohio "TENORM" - requires Radium 226/228 analysis by load before leaving the well pad. Solid waste landfills in Ohio can only accept TENORM waste with combined concentration less than 5 picocuries per gram above the natural background level.  
 \*\*\* Accepts drilling wastes but profile for disposal is not currently completed.  
 X Waste stream accepted by facility.  
 Waste stream is not or may not be accepted by facility. Contact facility directly to verify waste streams accepted.  
 New PADEP rules regarding "TENORM" testing requirements are pending.  
 Notes: \* Drill Cuttings include fine sand for the purpose of this table (Contact facility directly to verify waste streams accepted).

Proposed Revegetation Treatment: Acres Disturbed 46.9 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	25	Orchard Grass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Mary J Kirtz

RECEIVED  
Office of Oil and Gas  
NOV 09 2017

Comments:

- Subject to Army corp approvals for wetlands/streams
- Verify fresh water depths for casing.

WV Department of Environmental Protection

Title: Inspection

Date: 10/10/2017

Field Reviewed? (  ) Yes (  ) No

**SURFACE HOLE LOCATION (SHL)**  
 UTM 17 - NAD83  
 N: 4395388.715  
 E: 556827.867  
 NAD27, WV NORTH  
 N: 440491.084  
 E: 1764431.988  
 LAT/LON - NAD83  
 LAT: N39.7054664  
 LON: W80.3370667

**APPROXIMATE LANDING POINT**  
 UTM 17 - NAD83  
 N: 4395437.785  
 E: 556635.984  
 NAD27, WV NORTH  
 N: 440582.613  
 E: 1763805.030  
 LAT/LON - NAD83  
 LAT: N39.7069213  
 LON: W80.3393207

**BOTTOM HOLE LOCATION (BHL)**  
 UTM 17 - NAD83  
 N: 4396103.262  
 E: 555923.370  
 NAD27, WV NORTH  
 N: 442885.319  
 E: 1761503.083  
 LAT/LON - NAD83  
 LAT: N39.7129640  
 LON: W80.3475765

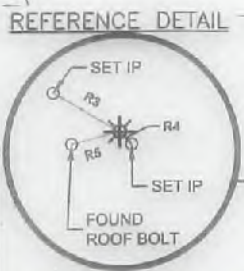
**LINE TABLE**

LINE #	BEARING	DISTANCE
R1	S12°44'17"W	967.18'
R2	N75°51'39"E	269.93'
R3	S69°44'34"E	401.60'
R4	N44°16'57"W	89.34'
R5	N75°51'39"E	269.93'

**LEGEND**

	TOPO MAP POINT		ALL ARE POINTS UNLESS OTHERWISE NOTED
	PROPOSED WELL		MINERAL TRACT BOUNDARY
	WATER SOURCE		PARCEL LINES
	SPRING		WELL REFERENCE
	LEASED NUMBER BASED ON ATTACHED WV6A1		STREAM/WATERWAY
			ROAD

**WELLS WITHIN 3000'**  
 RECORD GAS WELL



**Sheffler & Company, Inc.**  
 ENGINEERING • SURVEYING  
 1712 Mount Nebo Road  
 Sewickley, PA 15143  
 Phone: 412-219-4508  
 Email: info@shefflerCo.com

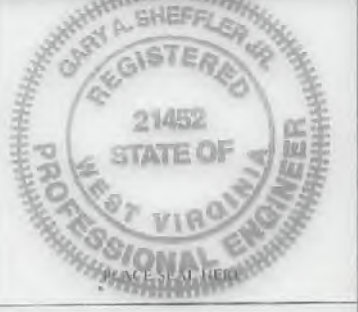
- NOTES**
1. There are no water wells or developed springs within 250' of proposed well.
  2. There are no existing buildings within 625' of proposed well.
  3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
  4. There are no native trout streams within 300' of proposed well.
  5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
  6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted herein. The location of the boundary lines, as shown, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

FILE # **WDTN5HSM**  
 DRAWING # **3601 - WDTN5 - SHL - R1.DWG**  
 SCALE: **1"=1000'**  
 MINIMUM DEGREE OF ACCURACY: **1/2500**  
 PROVEN SOURCE OF ELEVATION: **USGS MONUMENT JX1864: 1,496.32'**

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.

SIGNED:

R.P.E.: \_\_\_\_\_ L.L.S.: P.S. NO. \_\_\_\_\_



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304



DATE: **October 5, 2017 - REV November 1, 2017**  
 OPERATOR'S WELL #: **WDTN5HSM**  
 API WELL # **47 061 01793**  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: **DUNKARD CREEK** ELEVATION: **1412'**  
 COUNTY/DISTRICT: **MONONGALIA / BATTELLE** QUADRANGLE: **WADESTOWN, WV**  
 SURFACE OWNER: **JOHN M. WISE, ET UX., ET AL.** ACREAGE: **207.36**  
 OIL & GAS ROYALTY OWNER: **RICHARD W. WISE, ET AL.** ACREAGE: **207.36**

**02/16/2018**

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) \_\_\_\_\_

TARGET FORMATION: **MARCELLUS** ESTIMATED DEPTH: **TVD: 7,830' ± TMD: 11,700' ±**  
 WELL OPERATOR: **CNX GAS COMPANY, LLC** DESIGNATED AGENT: **CHRIS TURNER**  
 Address: **1000 CONSOL ENERGY DRIVE** Address: **1 DOMINION DRIVE**  
 City: **CANONSBURG** State: **PA** Zip Code: **15317** City: **JANE LEW** State: **WV** Zip Code: **26378**

Well is located on topo map 13,487 feet south of Latitude: 39° 45' 00"

Well is located on topo map 4,003 feet west of Longitude: 80° 20' 00"

BHL



1712 Mount Nebo Road Phone: 412-219-4509  
Sewickley, PA 15143 Email: info@shefflerCo.com

FILE #: <u>WDTN5IHSM</u> DRAWING #: <u>3601 - WDTN5 - SHL - R1.DWG</u> SCALE: <u>1"=1000'</u> MINIMUM DEGREE OF ACCURACY: <u>1/2500</u> PROVEN SOURCE OF ELEVATION: <u>USGS MONUMENT JX1864: 1,496.32'</u>	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.  SIGNED: <u>[Signature]</u> R.P.E.: _____ L.L.S.: P.S. NO. _____	
--	--	--

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304		DATE: <u>October 5, 2017 - REV November 1, 2017</u> OPERATOR'S WELL #: <u>WDTN5IHSM</u> API WELL # <u>47</u> <u>061</u> <u>01793</u> STATE COUNTY PERMIT
Well Type: <input type="checkbox"/> Oil <input type="checkbox"/> Waste Disposal <input checked="" type="checkbox"/> Production <input type="checkbox"/> Deep <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Liquid Injection <input type="checkbox"/> Storage <input checked="" type="checkbox"/> Shallow	WATERSHED: <u>DUNKARD CREEK</u> ELEVATION: <u>1412'</u> COUNTY/DISTRICT: <u>MONONGALIA / BATTELLE</u> QUADRANGLE: <u>WADESTOWN, WV</u> SURFACE OWNER: <u>JOHN M. WISE, ET UX., ET AL.</u> ACREAGE: <u>207.36</u> OIL & GAS ROYALTY OWNER: <u>RICHARD W. WISE, ET AL.</u> ACREAGE: <u>207.36</u>	
DRILL <input checked="" type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY) _____		
TARGET FORMATION: <u>MARCELLUS</u> WELL OPERATOR: <u>CNX GAS COMPANY, LLC</u> Address: <u>1000 CONSOL ENERGY DRIVE</u> City <u>CANONSBURG</u> State <u>PA</u> Zip Code <u>15317</u>	ESTIMATED DEPTH: <u>TVD: 7,830' ± TMD: 11,700' ±</u> DESIGNATED AGENT <u>CHRIS TURNER</u> Address: <u>1 DOMINION DRIVE</u> City <u>JANE LEW</u> State <u>WV</u> Zip Code <u>26378</u>	

02/16/2018

Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1	1-8-02	189010000	Richard W. Wise	CNX Gas Company, LLC	Not less than 1/8	1516/36
			Donald Wise	CNX Gas Company, LLC	Not less than 1/8	1516/486
			Linda Stapp	CNX Gas Company, LLC	Not less than 1/8	1359/110 & 1601/621
			Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen	CNX Gas Company, LLC	Not less than 1/8	1520/481
			Richard Nunley	CNX Gas Company, LLC	Not less than 1/8	1597/99
			Patricia Mumaw	CNX Gas Company, LLC	Not less than 1/8	1598/230
			Donald Nunley	CNX Gas Company, LLC	Not less than 1/8	1598/250
			Mary Nunley Stoppelton	CNX Gas Company, LLC	Not less than 1/8	1597/85
			Thomas McCauley	CNX Gas Company, LLC	Not less than 1/8	1442/715
			Richard McCauley	CNX Gas Company, LLC	Not less than 1/8	1442/707
			Judy Eckman	CNX Gas Company, LLC	Not less than 1/8	1442/711
			Clifford J. Wise	CNX Gas Company, LLC	Not less than 1/8	1525/130
			Regina W. Myers	CNX Gas Company, LLC	Not less than 1/8	1450/740
			Eleanor Wise	CNX Gas Company, LLC	Not less than 1/8	1501/809
			Victor E. Wise	CNX Gas Company, LLC	Not less than 1/8	1501/813
			Frederick C. Wise	CNX Gas Company, LLC	Not less than 1/8	1597/89
			Walter C. Ord	CNX Gas Company, LLC	Not less than 1/8	1501/803
			EvaLee A. Everly Shaheen	CNX Gas Company, LLC	Not less than 1/8	1501/321
			Dexter Murle Stewart	CNX Gas Company, LLC	Not less than 1/8	1500/277
			Zelda Ruth Brummage	CNX Gas Company, LLC	Not less than 1/8	1500/752
			James Freeman Stewart	CNX Gas Company, LLC	Not less than 1/8	1501/506
			Justin P. Stewart	CNX Gas Company, LLC	Not less than 1/8	1520/525
			Annette Stewart	CNX Gas Company, LLC	Not less than 1/8	1510/806
			Debra Goff	CNX Gas Company, LLC	Not less than 1/8	1529/256
			Wally Currence	CNX Gas Company, LLC	Not less than 1/8	1524/530
			Maureen Currence	CNX Gas Company, LLC	Not less than 1/8	1520/781
			Michelle Currence	CNX Gas Company, LLC	Not less than 1/8	1528/431
			Robert Stewart	CNX Gas Company, LLC	Not less than 1/8	1516/36
			Phyllis Petrosky	CNX Gas Company, LLC	Not less than 1/8	1510/293
			Jesse D. Jones	CNX Gas Company, LLC	Not less than 1/8	1509/468
			Harold M. Jones	CNX Gas Company, LLC	Not less than 1/8	1511/101
			Jane Irons	CNX Gas Company, LLC	Not less than 1/8	1602/108
			Melissa A. Bookout	CNX Gas Company, LLC	Not less than 1/8	1602/113
Eileen Ann Lyle	CNX Gas Company, LLC	Fee Conveyance	1600/462			
Robert Eugene Michael, Sr. and Darlene Ann Michael	CNX Gas Company, LLC	Fee Conveyance	1599/282			
Frank Dennis Michael, Jr. and Mary Frances Michael	CNX Gas Company, LLC	Fee Conveyance	1599/267			
Evelyn June Michael	CNX Gas Company, LLC	Fee Conveyance	1600/800			
Tanya Chersin a/k/a Tonya Chersin a/k/a Tonya L. Chersin	CNX Gas Company, LLC	Fee Conveyance	1601/148			
Boyd Hawkins and Kari J. Hawkins	CNX Gas Company, LLC	Fee Conveyance	1601/152			
Becky Bortnick Hawkins	CNX Gas Company, LLC	Fee Conveyance	Not yet recorded			
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
2	1-8-01.02	205005000	David W. Deaton and Elizabeth K. Deaton	CNX Gas Company, LLC	Not less than 1/8	1459/36
			CNX Gas Company, LLC	Noble Energy, Inc	Assignment	129/270
			Noble Energy, Inc	CNX Gas Company, LLC	Assignment	131/339
			CBC Holdings, LLC	CNX Gas Company, LLC	Not less than 1/8	1375/875
			CNX Gas Company, LLC	Noble Energy, Inc	Assignment	113/458
			CNX Gas Company, LLC	Noble Energy, Inc	Assignment	131/292
			Noble Energy, Inc	CNX Gas Company, LLC	Assignment	131/339
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
3	1-8-01.05	204774000	Gary L. Neely and Arlene Ann Neely	CNX Gas Company, LLC	Not less than 1/8	1602/835
			CBC Holdings, LLC	CNX Gas Company, LLC	Not less than 1/8	1375/875
			CNX Gas Company, LLC	Noble Energy, Inc	Assignment	113/458
			CNX Gas Company, LLC	Noble Energy, Inc	Assignment	131/292
			Noble Energy, Inc	CNX Gas Company, LLC	Assignment	131/339
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
4	1-8-01.01	188587000	Gary L. Neely and Arlene Ann Neely	CNX Gas Company, LLC	Not less than 1/8	1602/835
			CBC Holdings, LLC	CNX Gas Company, LLC	Not less than 1/8	1375/875
			CNX Gas Company, LLC	Noble Energy, Inc	Assignment	113/458
			CNX Gas Company, LLC	Noble Energy, Inc	Assignment	131/292
			Noble Energy, Inc	CNX Gas Company, LLC	Assignment	131/339
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
5	1-2-22	188584000	Mt. Tabor Methodist Episcopal Church, by its Trustees, Roy L. Hall, Victoria Hall, John L. Miller, Karen Miller, Sonya Miller, Adam Miller, Donald E. Nunley, Barbara Wagner, Lillian Wagner, Beto Gorostieta, Bill Areheart and Lynda Areheart	CNX Gas Company, LLC	Not less than 1/8	1482/11
			CNX Gas Company, LLC	Noble Energy, Inc	Assignment	123/869
			CNX Gas Company, LLC	CNX Gas Company, LLC	Assignment	131/339

**Sheffler & Company, Inc.**  
ENGINEERING • SURVEYING

1712 Mount Nebo Road Phone: 412-219-4509  
Sewickley, PA 15143 Email: info@shefflerCo.com

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



DATE: October 5, 2017 - REV November 1, 2017

OPERATOR'S WELL #: WDTN5IHSM

API WELL # 47 061 1793 H6A

STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: DUNKARD CREEK ELEVATION: 1412'  
COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV  
SURFACE OWNER: JOHN M. WISE, ET UX., ET AL. ACREAGE: 207.36  
OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.36

02/16/2018

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,830' ± TMD: 11,700' ±  
WELL OPERATOR: CNX GAS COMPANY, LLC DESIGNATED AGENT: CHRIS TURNER  
Address: 1000 CONSOL ENERGY DRIVE Address: 1 DOMINION DRIVE  
City: CANONSBURG State: PA Zip Code: 15317 City: JANE LEW State: WV Zip Code: 26378



WW-6A1  
(5/13)

Operator's Well No. WDTN5IHSM

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

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

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

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

Well Operator: CNX Gas Company LLC  
By: Raymond Hoon  
Its: Permitting Supervisor



Attachment - Form WW-6A-1 for **WTNSIHS**

<u>Tract ID</u>	<u>Tax Map &amp; Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
1	1-8-02	189010000	Richard W. Wise	CNX Gas Company, LLC	Not less than 1/8	1516/36
			Donald Wise	CNX Gas Company, LLC	Not less than 1/8	1516/486
			Linda Stapp	CNX Gas Company, LLC	Not less than 1/8	1359/110
			Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen	CNX Gas Company, LLC	Not less than 1/8	1601/621 1520/481
			Richard Nunley	CNX Gas Company, LLC	Not less than 1/8	1597/99
			Patricia Mumaw	CNX Gas Company, LLC	Not less than 1/8	1598/230
			Donald Nunley	CNX Gas Company, LLC	Not less than 1/8	1596/260
			Mary Nunley Stepelton	CNX Gas Company, LLC	Not less than 1/8	1597/85
			Thomas McCauley	CNX Gas Company, LLC	Not less than 1/8	1442/715
			Richard McCauley	CNX Gas Company, LLC	Not less than 1/8	1442/707
			Judy Eckman	CNX Gas Company, LLC	Not less than 1/8	1442/711
			Clifford J. Wise	CNX Gas Company, LLC	Not less than 1/8	1525/130
			Regina W. Myers	CNX Gas Company, LLC	Not less than 1/8	1450/740
			Eleanor Wise	CNX Gas Company, LLC	Not less than 1/8	1501/809
			Victor E. Wise	CNX Gas Company, LLC	Not less than 1/8	1501/813
			Frederick C. Wise	CNX Gas Company, LLC	Not less than 1/8	1597/89
			Walter C. Ord	CNX Gas Company, LLC	Not less than 1/8	1501/803
			Evalee A. Everly Shaheen	CNX Gas Company, LLC	Not less than 1/8	1501/321
			Dexter Murle Stewart	CNX Gas Company, LLC	Not less than 1/8	1500/277
			Zelda Ruth Brummage	CNX Gas Company, LLC	Not less than 1/8	1500/762
			James Freeman Stewart	CNX Gas Company, LLC	Not less than 1/8	1501/806
			Justin P. Stewart	CNX Gas Company, LLC	Not less than 1/8	1520/625
			Annette Stewart	CNX Gas Company, LLC	Not less than 1/8	1510/806
			Debra Goff	CNX Gas Company, LLC	Not less than 1/8	1529/256
			Wally Currence	CNX Gas Company, LLC	Not less than 1/8	1524/530
			Maureen Currence	CNX Gas Company, LLC	Not less than 1/8	1520/781
			Michelle Currence	CNX Gas Company, LLC	Not less than 1/8	1528/431
			Robert Stewart	CNX Gas Company, LLC	Not less than 1/8	1516/36
			Phyllis Petrosky	CNX Gas Company, LLC	Not less than 1/8	1510/203
			Jesse D. Jones	CNX Gas Company, LLC	Not less than 1/8	1509/468
			Harold M. Jones	CNX Gas Company, LLC	Not less than 1/8	1511/101
			Jane Irons	CNX Gas Company, LLC	Not less than 1/8	1602/108
			Melissa A. Bookout	CNX Gas Company, LLC	Not less than 1/8	1602/113
			Eileen Ann Lyle	CNX Gas Company, LLC	Fee Conveyance	1600/462
			Robert Eugene Michael, Sr. and Darlene Ann Michael	CNX Gas Company, LLC	Fee Conveyance	1599/282
			Frank Dennis Michael, Jr. and Mary Frances Michael	CNX Gas Company, LLC	Fee Conveyance	1599/267
			Evelyn June Michael	CNX Gas Company, LLC	Fee Conveyance	1600/800
			Tanya Chersin a/k/a Tonya Chersin a/k/a Tonya L. Chersin	CNX Gas Company, LLC	Fee Conveyance	1601/148
			Boyd Hawkins and Kari J. Hawkins	CNX Gas Company, LLC	Fee Conveyance	1601/152
			Becky Bortnick Hawkins	CNX Gas Company, LLC	Fee Conveyance	Not yet recorded

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document ↑

02/16/2018

<u>Tract ID</u>	<u>Tax Map &amp; Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
2	1-8-01.02	205005000	David W. Deaton and Elizabeth K. Deaton CNX Gas Company, LLC Noble Energy, Inc CBC Holdings, LLC CNX Gas Company, LLC CNX Gas Company, LLC Noble Energy, Inc	CNX Gas Company, LLC Noble Energy, Inc CNX Gas Company, LLC CNX Gas Company, LLC Noble Energy, Inc Noble Energy, Inc CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment Not less than 1/8 Assignment Assignment Assignment	1459/36 129/270 131/339 1375/675 113/458 131/292 131/339

<u>Tract ID</u>	<u>Tax Map &amp; Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
3	1-8-01.05	204774000	Gary L. Neely and Arlene Ann Neely CBC Holdings, LLC CNX Gas Company, LLC CNX Gas Company, LLC Noble Energy, Inc	CNX Gas Company, LLC CNX Gas Company, LLC Noble Energy, Inc Noble Energy, Inc CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Assignment Assignment Assignment	1602/835 1375/675 113/458 131/292 131/339

<u>Tract ID</u>	<u>Tax Map &amp; Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
4	1-8-01.01	188587000	Gary L. Neely and Arlene Ann Neely CBC Holdings, LLC CNX Gas Company, LLC CNX Gas Company, LLC Noble Energy, Inc	CNX Gas Company, LLC CNX Gas Company, LLC Noble Energy, Inc Noble Energy, Inc CNX Gas Company, LLC	Not less than 1/8 Not less than 1/8 Assignment Assignment Assignment	1602/835 1375/675 113/458 131/292 131/339

<u>Tract ID</u>	<u>Tax Map &amp; Parcel</u>	<u>Title Opinion QLS #</u>	<u>Grantor, Lessor, etc</u>	<u>Grantee, Lessee, etc</u>	<u>Royalty</u>	<u>Book/Page</u>
5	1-2-22	188584000	Mt. Tabor Methodist Episcopal Church, by its Trustees, Roy L. Hall, Victoria Hall, John L. Miller, Karen Miller, Sonya Miller, Adam Miller, Donald E. Nunley, Barbara Wagner, Lillian Wagner, Beto Gorostieta, Bill Areheart and Lynda Areheart CNX Gas Company, LLC Noble Energy, Inc	CNX Gas Company, LLC Noble Energy, Inc CNX Gas Company, LLC	Not less than 1/8 Assignment Assignment	1482/11 123/869 131/339

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## QUITCLAIM DEED

7597

**THIS QUITCLAIM DEED**, made the 25th day of August 2017, by and between **Becky L. Hawkins f/k/a Becky Bortnick a/k/a Becky Bortnick Hawkins**, a single woman, whose address is 2812 Nevis Circle, Costa Mesa, CA 92626, party of the first part, hereinafter called "Grantor", and **CNX Gas Company LLC**, whose address is 1000 CONSOL Energy Drive, Canonsburg, PA 15317, party of the second part, hereinafter called "Grantee";

**WITNESSETH**, that for good and valuable consideration as declared below, the receipt and sufficiency of which is hereby acknowledged, Grantor does hereby grant, convey, release, remise, and forever quitclaim, without warranty, unto Grantee, all of Grantor's right, title, and interest in and to those certain tracts or parcels of land located in Battelle District, Monongalia County, West Virginia and identified for tax purposes, as of this date, as 31-01-0008-0002-0000, containing 207.69 acres, more or less, and being the same property described in Deed Book 1321, Page 337; part of 31-01-0008-0004-0000 and 31-01-0008-0005-0000, containing 33.85 acres, more or less, and being the same property described in Deed Book 90, Page 58; and part of 31-01-0008-0014-0000, containing 10.3 acres, more or less, and being the same property described in Deed Book 84, Page 413 together with all and singular the hereditaments and appurtenances thereto belonging, said tracts or parcels of land being more fully described in Exhibit A, attached hereto, made a part hereof and incorporated herein by reference.

**TO HAVE AND TO HOLD** the above described premises unto the said Grantee and its assigns forever. This deed is made and accepted subject to all lawful and enforceable reservations, restrictions, conditions and covenants made and contained in all former deeds of record in the chain of title to the above described property. It being the intent of the Grantor to convey any and all of Grantor's right, title, and interest in the tracts or parcels of land described in Exhibit A, including, but not limited to, all right, title and interest in and to the surface, oil and gas, and other minerals.

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DECLARATION OF CONSIDERATION OR VALUEWV Department of  
Environmental Protection

The undersigned Grantor hereby declares that the total consideration paid for the property transferred by the document to which this declaration is appended is twelve thousand dollars (\$12,000.00).

WITNESS the following signatures:

GRANTOR:

Becky L. Hawkins  
Becky L. Hawkins f/k/a Becky Bortnick a/k/a  
Becky Bortnick Hawkins

ACKNOWLEDGMENT

STATE OF CALIFORNIA  
COUNTY OF \_\_\_\_\_

Before me, a Notary Public in and for said state and county, personally appeared **Becky L. Hawkins f/k/a Becky Bortnick a/k/a Becky Bortnick Hawkins**, a single woman, who acknowledged the signing of the foregoing to be her free and voluntary act and deed.

IN TESTIMONY THEREOF, I have hereunto subscribed my name and affixed my official seal on this \_\_\_\_\_ day of \_\_\_\_\_, 2017.  
(Notarial Seal)

See Attachment

\_\_\_\_\_  
Notary Public  
My commission expires \_\_\_\_\_

I hereby certify that the precise residence of the Grantee herein is:  
1000 CONSOL Energy Drive  
Canonsburg, PA 15317

Craig Grant

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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

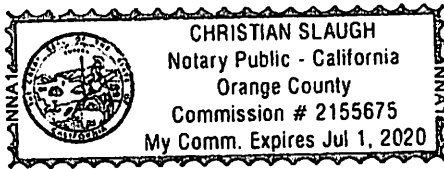
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Orange
On August 31st, 2017 before me, Christian Slaugh, Notary Public.
Date Here Insert Name and Title of the Officer
personally appeared Becky Lynn Hawkins
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Handwritten Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Quitclaim Deed Document Date: August 25th, 2017
Number of Pages: 1 Signer(s) Other Than Named Above: N/A

Capacity(ies) Claimed by Signer(s)

Signer's Name:
[ ] Corporate Officer -- Title(s):
[ ] Partner -- [ ] Limited [ ] General
[ ] Individual [ ] Attorney in Fact
[ ] Trustee [ ] Guardian or Conservator
[ ] Other:
Signer Is Representing:

Signer's Name:
[ ] Corporate Officer -- Title(s):
[ ] Partner -- [ ] Limited [ ] General
[ ] Individual [ ] Attorney in Fact
[ ] Trustee [ ] Guardian or Conservator
[ ] Other:
Signer Is Representing:

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**EXHIBIT A****LEGAL DESCRIPTION**

**All of those certain tracts, lots, or parcels of land lying and being in the District of Battelle, in the County of Monongalia, State of West Virginia, bounded and described as follows:**

**Tract 1:**

Situated in the Battelle District of Monongalia County, West Virginia, said 207.69 acre tract is located on Wise's Run, also County Road 6, approximately 1.8 miles North of Wadestown, West Virginia, and more particularly described as:

BEGINNING at an iron pin on top of the ridge between Wise's Run and Shriver's Run, said iron pin is also the Southeast corner of Parcel One. The center of County Road 6 bears along the South property line N. 36-04-08 E. approximately 1,340 feet; thence, from said Southeast corner, continuing along the ridge S. 85-01-36 W. 891.87 feet to an iron pin set on the ridge; thence, along the ridge N. 62-04-10 W. 666.06 feet to an iron pin; thence, along the Westerly limits of said 207.69 acre tract, crossing the left fork of Wise Run at 1,100 feet, more or less, N. 7-21-23 E. 1,742.27 feet to an iron pin; thence N. 34-49-16 E. 434.42 feet to an iron pin; thence, S. 52-54-52 E. 247.13 feet to an iron pin; thence S. 33-15-14 E. 822.87 feet to an iron pin at the Northeast corner of Parcel One; thence, crossing the County Road 6 at 675 feet N. 38-02-45 E. 973.50 feet; thence N. 27-14-43 E. 854.70 feet to the Northwest corner of Parcel Five; thence, S. 69-21-05 E. 1,058.03 feet the Northeast corner of Parcel Five at an iron pin; thence, N. 24-51-57 E. 547.51 feet to an iron pin; thence, N. 24-41-08 W. 117.46 feet to a point in the Russell's Run Road; thence, along the said Road, S. 85-36-16 E. 283.25 feet; thence, along the said Road, S. 60-47-18 E. 316.76 feet; thence, leaving the said Road, N. 68-13-46 E. 898.69 feet to the Northerly corner of Parcel Two; thence, along the East ridge of Russell's Run, S. 69-09-56 E. 993.18 feet to the Northeast corner of Parcel Two; thence, leaving the ridge and crossing Russell's Run at 1,300 feet, S. 30-45-10 W. 2,643.98 feet to the Southern corner of Parcel Two, which is an iron pin; thence N. 17-18-37 W. 719.94 feet to an iron pin at the Southeast corner of Parcel Four; thence, along the Southerly line of Parcel Four, N. 83-19-50 W. 1,390.41 feet to an iron pin at the Southwest corner of Parcel Four; thence, along the Southeasterly line of Parcel Five and Parcel One, S. 36-04-08 W. 2,003.42 feet to the point of beginning, containing 207.69 acres, as shown on a plat recorded in Map Cabinet 1, Envelope 110-B.

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Said description being contained in **Deed Book 1321, at page 337.**

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**Tract 2:**

Situated in Monongalia County, West Virginia and more particularly described as:

BEGINNING at a stake in the line of S.H. Shriver, and running directly over a living spring, N. 13-30-00 E. 22.6 poles to a gate post; thence N. 7-15-00E. 9 poles to a stake; thence N. 22-00-00 W. 33.5 poles to a stake in line of Kirkhart's heirs and with same S. 71-00-00 W. 19.9 poles to a white oak; thence N. 85-00-00 W. 83.5 poles to a stone; thence with lands of George Shriver S. 15-30-00 E. 21 poles to a C.O.; thence S. 22-00-00 E. 11.2 poles to a hickory stump; thence S. 42-30-00 E. 21 poles to a hickory; thence S. 48-00-00 E. 15 poles to a sugar, corner to land of S.H. Shriver and with his line S. 86-00-00 E. 71.6 poles to the place of beginning, containing 33.85 acres, more or less, being the same land that is marked as Lot #2 on the Plat made according to the survey of I.N. Robinson and recorded in Deed Book 83, page 49.

Said description being contained in **Deed Book 90, at page 58.**

**Tract 3:**

Situated in Battelle District, Monongalia County, West Virginia and more particularly described as:

BEGINNING at a hickory in a line of land of Jacob Wiley, and running thence S. 30-00-00 W. 42.9 poles to a stone, thence S. 18-30-00 E. 39 poles to pointers; thence S. 26-30-00 E. 13.5 poles to a stake; thence N. 66-00-00 E. 24.1 poles to a stone; thence N. 20-00-00 W. 29.1 poles to a stone; thence N-13-30-00 W 23.4 poles to a stone, thence N. 05-00-00 W. 26.4 poles to the beginning, containing 10.3 acres, more or less.

Said description being contained in **Deed Book 84, at page 413.**

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



October 25, 2017

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

RE: Road Letter – WDTN5 Well Pad Drilling Applications

To Whom It May Concern:

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

If any further information or correspondence is required, please contact me at (724) 485-3540 or [RaymondHoon@consolenergy.com](mailto:RaymondHoon@consolenergy.com).

Sincerely,

A handwritten signature in black ink that reads 'Raymond Hoon'.

Raymond Hoon  
Permitting Supervisor

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

Date of Notice Certification: 11-8-17

API No. 47- \_\_\_\_\_  
Operator's Well No. WDTN5IHSU  
Well Pad Name: WDTN5

**Notice has been given:**

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>1732995.319</u>
County: <u>Monongalia</u>		Northing: <u>440528.355</u>
District: <u>Battelle</u>	Public Road Access: <u>CR6 Wise Run</u>	
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Wise</u>	
Watershed: <u>Dunkard Creek</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
---	---

**Required Attachments:**

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been notified as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

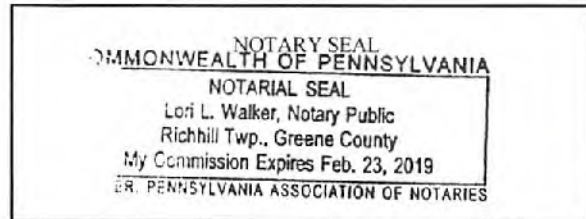
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**Certification of Notice is hereby given:**

THEREFORE, I Raymond Hoon, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: CNX Gas Company, LLC  
By: Raymond Hoon  
Its: Permitting Supervisor  
Telephone: 724-485-3540

Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317  
Facsimile: \_\_\_\_\_  
Email: RaymondHoon@ConsolEnergy.com



Subscribed and sworn before me this 8<sup>th</sup> day of November 2017  
Lori L. Walker Notary Public  
My Commission Expires February 23, 2019

**Oil and Gas Privacy Notice:**

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

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

**Notice Time Requirement:** notice shall be provided no later than the filing date of permit application.

**Date of Notice:** 11-7-17 **Date Permit Application Filed:** 11-8-17

**Notice of:**

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

**Delivery method pursuant to West Virginia Code § 22-6A-10(b)**

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice  WSSP Notice  E&S Plan Notice  Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: See attached  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: See attached  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: N/A  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: See attached  
Address: \_\_\_\_\_

COAL OPERATOR

Name: N/A  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: N/A  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: N/A  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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WV Department of Environmental Protection

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WV Department of  
Environmental Protection

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

**Well Location Restrictions**

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

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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Environmental Protection

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

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**Time Limits and Methods for Filing Comments.**

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

**Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

**Permit Denial or Condition**

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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**Notice is hereby given by:**

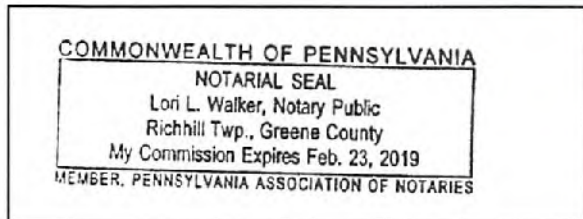
Well Operator: CNX Gas Company, LLC  
Telephone: 724-485-3540  
Email: RaymondHoon@ConsolEnergy.com

Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317  
Facsimile: \_\_\_\_\_



**Oil and Gas Privacy Notice:**

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



Subscribed and sworn before me this 8<sup>th</sup> day of November 2017  
Lori L. Walker Notary Public  
My Commission Expires February 23, 2019

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Environmental Protection



## WW6A Notice of Application - Attachment

WDTN5IHSM

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

John Matthew Wise and Dina Wise  
2255 East 6500 South, Price, UT 84501

Opal Wise  
2002 West 600 North Hilltop Road, Price, UT 84501

Richard Nunley  
261 Festival Drive, Oceanside, CA 92057

Patricia Mumaw  
3344 Northridge Drive, Wooster, OH 44691

Donald Nunley  
36 Autumn Drive, Core, WV 26541

Mary Nunley Stepelton  
7739 South Hampton Terrace, Unit G204, Tamarac, FL 33321

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

Richard McCauley  
2589 Timothy Ave., Louisville, OH 44641

Judy Eckman  
1223 Berwyn SW, Sherrodsville, OH, 44675

Clifford J. Wise  
2394 County Road 137, Obrien, FL 32071

Regina W. Myers  
1200 Carroll Heights Blvd., Hagerstown, MD 21742

Eleanor Wise  
126 Fairview Ave., Waynesburg, PA 15370

Victor E. Wise  
266 Pine Drive, Poca, WV 25159

Frederick C. Wise  
1 West Hills Drive, Fairmont, WV 26554

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

Richard McCauley  
2589 Timothy Ave., Louisville, OH 44641

Judy Eckman  
1223 Berwyn SW, Sherrodsville, OH, 44675

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

Clifford J. Wise  
2394 County Road 137, Obrien, FL 32071

Regina W. Myers  
1200 Carroll Heights Blvd., Hagerstown, MD 21742

Eleanor Wise  
126 Fairview Ave., Waynesburg, PA 15370

Victor E. Wise  
266 Pine Drive, Poca, WV 25159

Frederick C. Wise  
1 West Hills Drive, Fairmont, WV 26554

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

Evalee A. Everly  
1325 Citrus Gardens Dr., Apt A, Orlando, FL 32807

Dexter Murle Stewart  
1283 Corssroads Road, Fairview, WV 26570

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

James Freeman Stewart  
P.O. Box 443, Springfield, WV 26763

Justin P. Stewart  
132 Radiant Drive, Martinsburg, WV 25404

Annette Stewart  
41 Mimosa Dr., Martinsburg, WV 25404

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Environmental Protection

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

Evallee A. Everly  
1325 Citrus Gardens Dr., Apt A, Orlando, FL 32807

Dexter Murle Stewart  
1283 Corssroads Road, Fairview, WV 26570

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

James Freeman Stewart  
P.O. Box 443, Springfield, WV 26763

Justin P. Stewart  
132 Radiant Drive, Martinsburg, WV 25404

Annette Stewart  
41 Mimosa Dr., Martinsburg, WV 25404

Debbie Goff  
9009 Robinson St, Brandywine MD 20613

Wally Currence  
16200 Bealle Hill Road, Waldorf, MD 20601

Maureen Currence  
203 Silver Maple Ct., Holly Ridge, NC 28445

Michelle Currence  
1 Carroll Drive, Stafford, VA 22554

Robert Stewart  
Lot 1, Route 21 MHP, Carmichaels, PA 15320

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

Jesse D. Jones  
308 1/2 Crest Ave., Charleroi, PA 15022

Harold M. Jones  
317 Crest Ave., Charleroi, PA 15022

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

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Becky Bortnick Hawkins  
2812 Nevis Circle, Costa Mesa, CA 92626

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

Melissa Bookout  
311 West Walnut St., Madisonville, TN 37354

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

**Coal Owner:**

CNX RCPCL LC  
1000 CONSOL Energy Drive, Canonsburg, PA 15317

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

John Matthew Wise and Dina Wise  
2255 East 6500 South, Price, UT 84501

Opal Wise  
2002 West 600 North Hilltop Road, Price, UT 84501

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

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

John David Wise  
3 Cross Roads Road, Wana, WV

Richard Nunley  
261 Festival Drive, Oceanside, CA 92057

Patricia Mumaw  
3344 Northridge Drive, Wooster, OH 44691

Donald Nunley  
36 Autumn Drive, Core, WV 26541

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7739 South Hampton Terrace, Unit G204, Tamarac, FL 33321

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Harold M. Jones  
317 Crest Ave., Charleroi, PA 15022

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

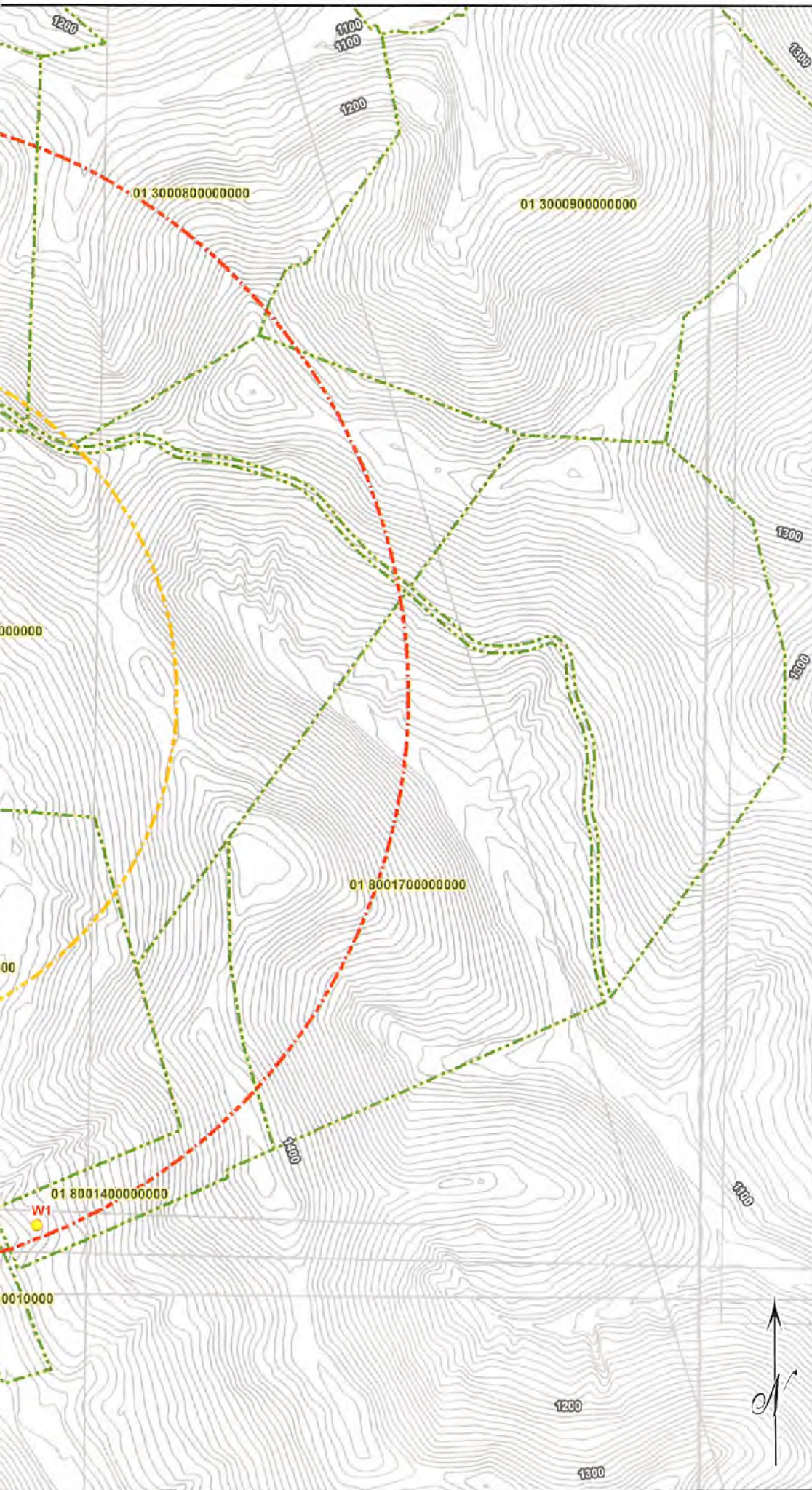
Jane Irons  
P.O. Box 681, Tellico Plains, TN 37385

Melissa Bookout  
311 West Walnut St., Madisonville, TN 37354




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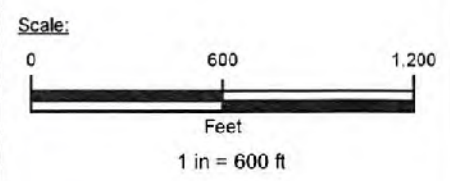
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61-01793  
**LEGEND**

-  WDTN5 Gas Well
-  Wells
-  Spring
-  Ponds
-  1,500 Foot Radius
-  2,500 Foot Radius
-  Parcel Boundaries



**Map References:**

- Supply information collected and provided by Moody and Associates, Inc.
- 7½ minute quadrangle: Wadestown, WV
- Base aerial imagery retrieved from ESRI online database. World Imagery with World Transportation overlay.

**Notes:**

- This drawing is the property of CNX Gas Company, LLC, and contains information that is proprietary and confidential in nature. It may not be copied or otherwise reproduced in whole or in part without prior written consent.

**PRE-DRILL WATER SURVEY**

**WDTN5 Gas Well  
Water Source Map**

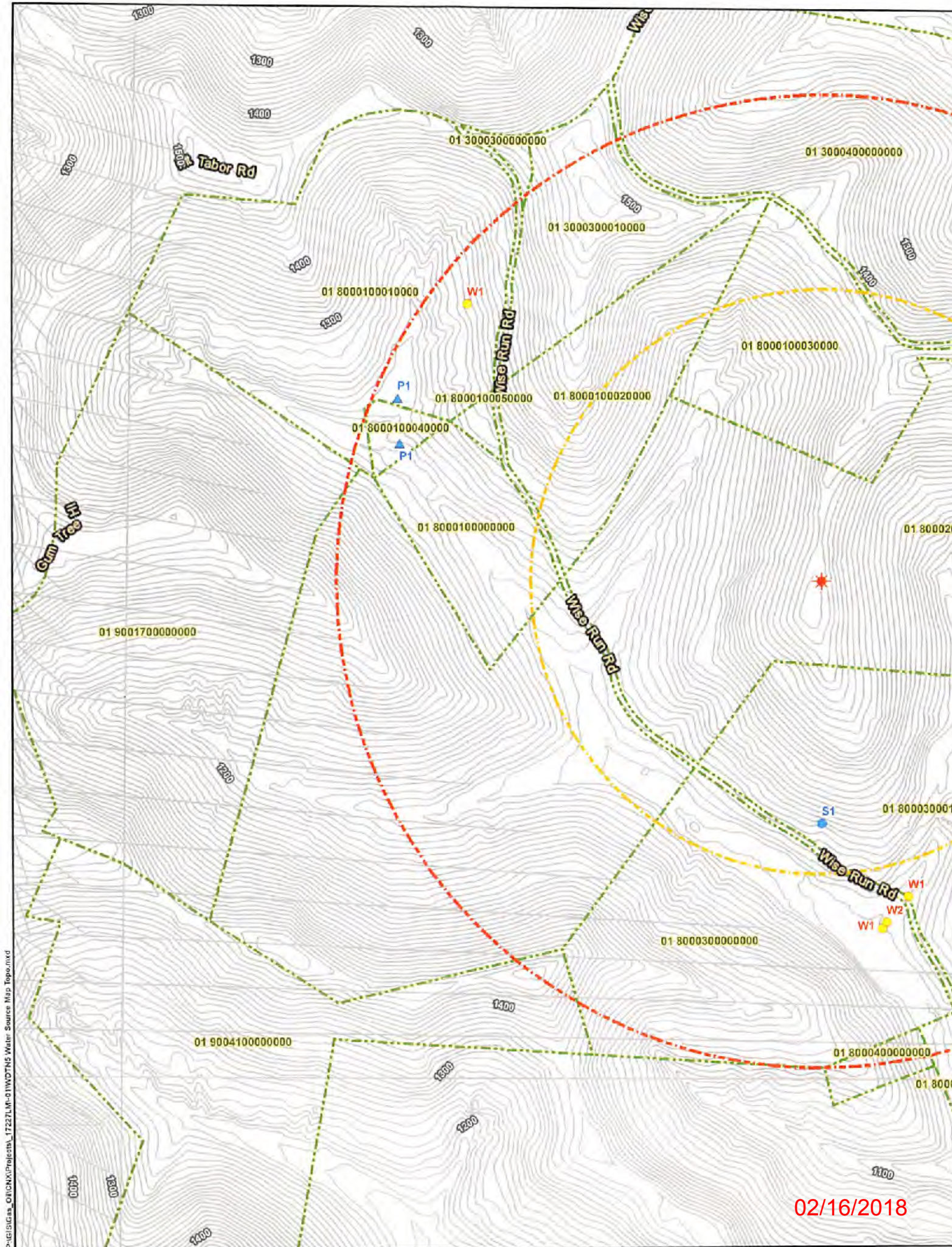
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Bartlett District,  
Menongalia County, WV  
NOV 09 2017  
WV Department of  
Environmental Protection  
Project #: 17-227-01

Prepared for:  


199 Johnson Road  
Building 2, Suite 101  
Houston, PA 15342  
Office: (724) 746-5200  
Fax: (724) 746-5603  
www.moody-s.com



Drawn by: MPS Date: 10/17/17  
Checked by: MC Revision: 02/16/2018



P:\GIS\GIS\_data\Projects\17227\MXD\11WDTN5 Water Source Map Topo.mxd

02/16/2018

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF ENTRY FOR PLAT SURVEY**

**Notice Time Requirement:** Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

**Date of Notice:** September 13, 2017      **Date of Planned Entry:** September 25, 2017

**Delivery method pursuant to West Virginia Code § 22-6A-10a**

- PERSONAL SERVICE     
  REGISTERED MAIL     
  METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

**Notice is hereby provided to:**

SURFACE OWNER(s)

Name: DINA WISE  
Address: 2255 E 6500 PRICE, UT 84501

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

MINERAL OWNER(s)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*please attach additional forms if necessary

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>WV</u>	Approx. Latitude & Longitude: <u>NAD83 LAT:39°42'26.8939" NAD83 LON:80°20'14.2191"</u>
County: <u>Monongalia</u>	Public Road Access: <u>Yes</u>
District: <u>Battelle</u>	Watershed: <u>Dunkard Creek</u>
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>N/A</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: Consol Energy Inc.  
Telephone: (724) 485-4000  
Email: LandRecords@consolenergy.com

Address: CNX Gas Company LLC 1000 CONSOL Energy Drive **NOV 09 2017**  
Facsimile: N/A

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WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

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

**02/16/2018**



661-01793

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

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

**Notice Time Requirement:** Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

**Date of Notice:** 11-7-17 **Date Permit Application Filed:** 11-8-17

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

**HAND DELIVERY**       **CERTIFIED MAIL RETURN RECEIPT REQUESTED**

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

**Notice is hereby provided to the SURFACE OWNER(s):**

Name: See attached  
Address: \_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Eastings:	<u>1732992.319</u>
County:	<u>Monongalia</u>		Northings:	<u>440528.355</u>
District:	<u>Battelle</u>	Public Road Access:	<u>CR6 Wise Run</u>	
Quadrangle:	<u>Wadestown</u>	Generally used farm name:	<u>Wise</u>	
Watershed:	<u>Dunkard Creek</u>			

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: CNX Gas Company, LLC  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317  
Telephone: 724-485-3540  
Email: RaymondHoon@ConsolEnergy.com  
Facsimile: \_\_\_\_\_

Authorized Representative: Raymond Hoon  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317  
Telephone: 724-485-3540  
Email: RaymondHoon@ConsolEnergy.com  
Facsimile: \_\_\_\_\_

**Oil and Gas Privacy Notice:**

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

Office of Oil and Gas

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02/16/2018  
WV Department of  
Environmental Protection

## WW6A4 Notice of Intent to Drill - Attachment

WDTN5IHSM

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

John Matthew Wise and Dina Wise  
2255 East 6500 South, Price, UT 84501

Opal Wise  
2002 West 600 North Hilltop Road, Price, UT 84501

Richard Nunley  
261 Festival Drive, Oceanside, CA 92057

Patricia Mumaw  
3344 Northridge Drive, Wooster, OH 44691

Donald Nunley  
36 Autumn Drive, Core, WV 26541

Mary Nunley Stepelton  
7739 South Hampton Terrace, Unit G204, Tamarac, FL 33321

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

Richard McCauley  
2589 Timothy Ave., Louisville, OH 44641

Judy Eckman  
1223 Berwyn SW, Sherrodsville, OH, 44675

Clifford J. Wise  
2394 County Road 137, Obrien, FL 32071

Regina W. Myers  
1200 Carroll Heights Blvd., Hagerstown, MD 21742

Eleanor Wise  
126 Fairview Ave., Waynesburg, PA 15370

Victor E. Wise  
266 Pine Drive, Poca, WV 25159

Frederick C. Wise  
1 West Hills Drive, Fairmont, WV 26554

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

Evalee A. Everly  
1325 Citrus Gardens Dr., Apt A, Orlando, FL 32807

Dexter Murle Stewart  
1283 Corssroads Road, Fairview, WV 26570

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

James Freeman Stewart  
P.O. Box 443, Springfield, WV 26763

Justin P. Stewart  
132 Radiant Drive, Martinsburg, WV 25404

Annette Stewart  
41 Mimosa Dr., Martinsburg, WV 25404

Debbie Goff  
9009 Robinson St, Brandywine MD 20613

Wally Currence  
16200 Bealle Hill Road, Waldorf, MD 20601

Maureen Currence  
203 Silver Maple Ct., Holly Ridge, NC 28445

Michelle Currence  
1 Carroll Drive, Stafford, VA 22554

Robert Stewart  
Lot 1, Route 21 MHP, Carmichaels, PA 15320

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

Jesse D. Jones  
308 1/2 Crest Ave., Charleroi, PA 15022

Harold M. Jones  
317 Crest Ave., Charleroi, PA 15022

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

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Environmental Protection

Becky Bortnick Hawkins  
2812 Nevis Circle, Costa Mesa, CA 92626

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

Melissa Bookout  
311 West Walnut St., Madisonville, TN 37354

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

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**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF PLANNED OPERATION**

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 11-7-17      **Date Permit Application Filed:** 11-8-17

**Delivery method pursuant to West Virginia Code § 22-6A-16(c)**

- CERTIFIED MAIL     HAND  
RETURN RECEIPT REQUESTED    DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

**Notice is hereby provided to the SURFACE OWNER(s)**  
(at the address listed in the records of the sheriff at the time of notice):

Name: <u>See attached</u>	Name: _____
Address: _____	Address: _____

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>1732995.319</u>
County: <u>Monongalia</u>		Northing: <u>440528.355</u>
District: <u>Battelle</u>	Public Road Access: <u>CR6 Wise Run</u>	
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>Wise</u>	
Watershed: <u>Dunkard Creek</u>		

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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O&G Division  
NOV 09 2017

Well Operator: CNX Gas Company, LLC  
Telephone: 724-485-3540  
Email: RaymondHoon@ConsolEnergy.com

Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317  
Facsimile: \_\_\_\_\_

WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

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

WW6A5 Notice of Planned Operation - Attachment

WDTN5IHSM

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

John Matthew Wise and Dina Wise  
2255 East 6500 South, Price, UT 84501

Opal Wise  
2002 West 600 North Hilltop Road, Price, UT 84501

Richard Nunley  
261 Festival Drive, Oceanside, CA 92057

Patricia Mumaw  
3344 Northridge Drive, Wooster, OH 44691

Donald Nunley  
36 Autumn Drive, Core, WV 26541

Mary Nunley Stepelton  
7739 South Hampton Terrace, Unit G204, Tamarac, FL 33321

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

Richard McCauley  
2589 Timothy Ave., Louisville, OH 44641

Judy Eckman  
1223 Berwyn SW, Sherrodsville, OH, 44675

Clifford J. Wise  
2394 County Road 137, Obrien, FL 32071

Regina W. Myers  
1200 Carroll Heights Blvd., Hagerstown, MD 21742

Eleanor Wise  
126 Fairview Ave., Waynesburg, PA 15370

Victor E. Wise  
266 Pine Drive, Poca, WV 25159

Frederick C. Wise  
1 West Hills Drive, Fairmont, WV 26554

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

Evalee A. Everly  
1325 Citrus Gardens Dr., Apt A, Orlando, FL 32807

Dexter Murle Stewart  
1283 Corssroads Road, Fairview, WV 26570

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

James Freeman Stewart  
P.O. Box 443, Springfield, WV 26763

Justin P. Stewart  
132 Radiant Drive, Martinsburg, WV 25404

Annette Stewart  
41 Mimosa Dr., Martinsburg, WV 25404

Debbie Goff  
~~9009 Robinson St, Brandywine MD 20613~~  
3004 Drunville Road;

Wally Currence  
16200 Bealle Hill Road, Waldorf, MD 20601

Maureen Currence  
203 Silver Maple Ct., Holly Ridge, NC 28445

Michelle Currence  
1 Carroll Drive, Stafford, VA 22554

Robert Stewart  
Lot 1, Route 21 MHP, Carmichaels, PA 15320

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

Jesse D. Jones  
308 1/2 Crest Ave., Charleroi, PA 15022

Harold M. Jones  
317 Crest Ave., Charleroi, PA 15022

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

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61-01793

Becky Bortnick Hawkins  
2812 Nevis Circle, Costa Mesa, CA 92626

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

Melissa Bookout  
311 West Walnut St., Madisonville, TN 37354

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

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

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

Jim Justice  
Governor

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

December 6, 2017

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

Subject: DOH Permit for the WDTN5 Pad, Monongalia County  
WDTN5IHSM Well Site

Dear Mr. Martin,

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

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

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WV Department of  
Environmental Protection

Very Truly Yours,

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

Cc: Ray Hoon  
CNX Gas Company LLC  
CH, OM, D-4  
File

02/16/2018

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

Type: Water CAS: 7732-18-5

Type: Silica CAS: 14808-60-7

Type: Hydrochloric Acid CAS: 7647-01-0

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

Type: Petroleum distillate CAS: 64742-47-8

Type: Glutaraldehyde CAS: 111-30-8

Type: Ethylene glycol CAS: 107-21-1

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

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

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

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

Type: Ammonium chloride CAS: 12125-02-9

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

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

Type: Metanol CAS: 67-56-1

Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

Type: Acetophenone CAS: 98-86-2

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Environmental Protection

02/16/2018

61-01993

# EROSION & SEDIMENT CONTROL PLAN AND SITE RESTORATION PLAN

WDTN5 WELL SITE  
MONONGALIA COUNTY, WEST VIRGINIA

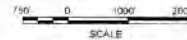
FOR



LANDOWNER	DISTURBANCE BREAKDOWN	
	DISTURBANCE FROM ACCESS ROAD & STOPPLES (ACRES)	DISTURBANCE FROM WELLS AND STOPPLES (ACRES)
BARBARA WAGNER TWP#02 14031 DNED 130204 BRADDOHT WPK ST. AL TWP#01 1402 DNED 130101	15	8.7
	38.8	118



1848-B NGS: UNITED STATES GEOLOGICAL SURVEY - AMSTERDAM QUADRANGLE, WV, 7.5 MINUTE SERIES



PROJECT NO. 17016-023  
DECEMBER 2017

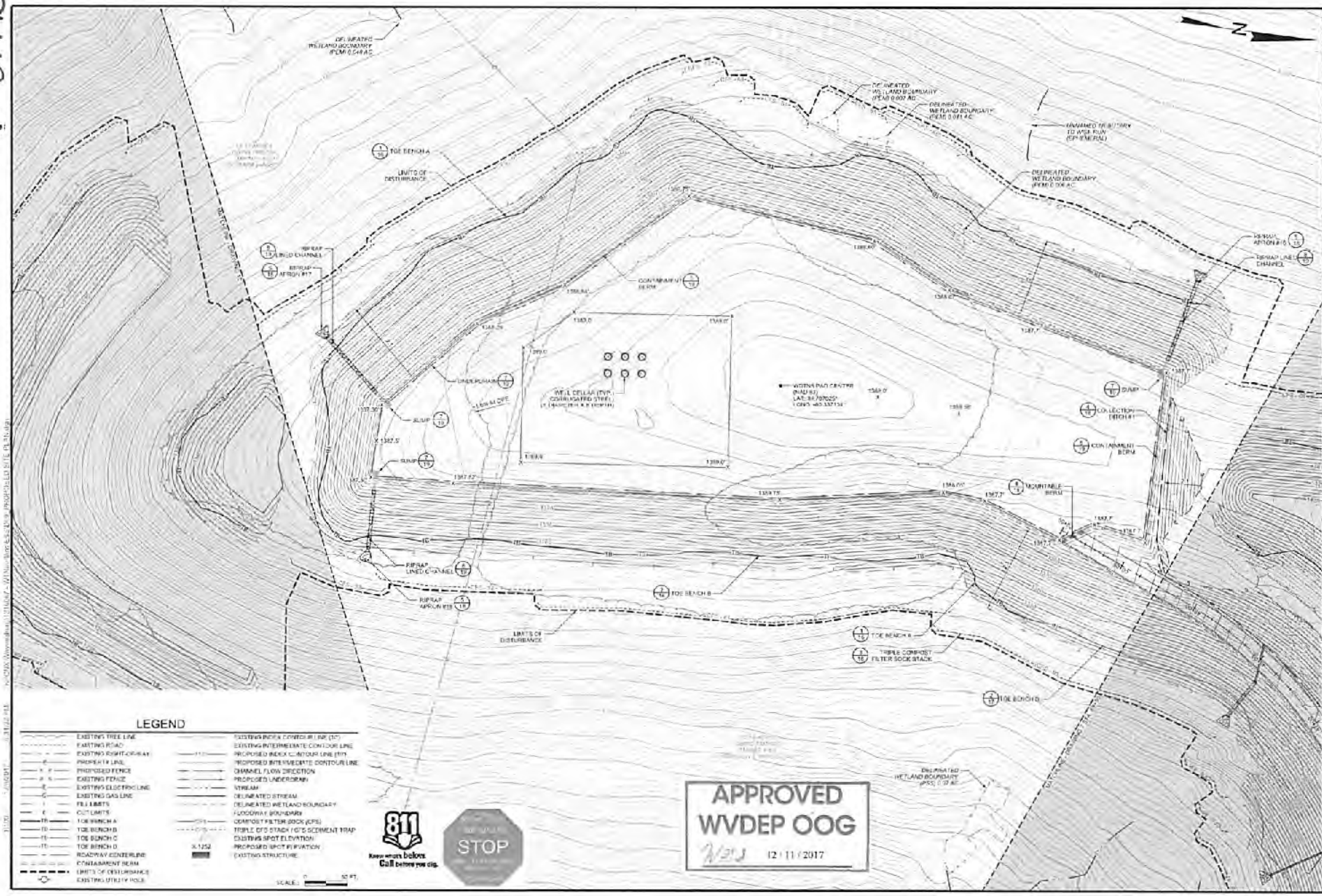
DIEFFENBAUCH & HRITZ, LLC



DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING SITE PLAN
4	SURVEY PLAN
5	CONCRETE SITE PLAN
8-10	PROPOSED UTIL PLAN
11	ACCESS ROAD PROFILES
12-14	ACCESS ROAD CROSS SECTIONS
15	WPI FAC CROSS SECTION
16-17	TOP SURFACE PROFILES
18-19	PAVEMENT PROFILES
20	SITE RESTORATION PLAN
21	SEED & MULCH PLAN
22	QUANTITY SUMMARY



61-01793



**LEGEND**

- |   |                        |   |                                      |
|---|------------------------|---|--------------------------------------|
| — | EXISTING TREE LINE     | — | EXISTING INTERMEDIATE CONTOUR LINE   |
| — | EXISTING ROAD          | — | PROPOSED INDEX CONTOUR LINE (10')    |
| — | EXISTING RIGHT-OF-WAY  | — | PROPOSED SITE ELEVATION CONTOUR LINE |
| — | PROPOSED FENCE         | — | CHANNEL FLOW DIRECTION               |
| — | EXISTING FENCE         | — | PROPOSED UNDERDRAIN                  |
| — | EXISTING ELECTRIC LINE | — | W/REAM                               |
| — | EXISTING GAS LINE      | — | DELABATED STREAM                     |
| — | FILE LIMITS            | — | DELABATED WETLAND BOUNDARY           |
| — | CULVERTS               | — | FLOODWAY BOUNDARY                    |
| — | TOE BENCH A            | — | COMPOST FILTER SOCK (CFS)            |
| — | TOE BENCH B            | — | TRIPLE C/D STACK (C/D SCUMMENT TRAP) |
| — | TOE BENCH C            | — | ELECTRIC SPOT ELEVATION              |
| — | TOE BENCH D            | — | PROPOSED SPICE ELEVATION             |
| — | ROADWAY CENTERLINE     | — | EXISTING STRUCTURE                   |
| — | C/CONTAINMENT BEAM     |   |                                      |
| — | LIMITS OF DISTURBANCE  |   |                                      |
| — | EXISTING UTILITY POLE  |   |                                      |



**APPROVED WVDEP OOG**  
*WVDEP* 12/11/2017

PROJECT	WDTNS WELL SITE
CLIENT	DIETTERHAUCH & HERTZ LLC
DATE	12/11/2017
SCALE	AS SHOWN
DESIGNER	DIETTERHAUCH & HERTZ LLC
APPROVED	[Signature]